superior conj	5100 Apr 30 18:58	11° 8 27'17	-1°18'37	desc. node	5101 Mar 05 13:29	22° ≈ 26'40	
minimum elong	5100 Apr 30 23:15	11° 8 48'08	1°17'58	desc. node	5101 Mar 11 04:23	0° ∀	
evening rise	5100 May 09 08:07	28° 8 25'59	1 17 50		5101 Mar 30 20:37	0° Υ	
asc. node	5100 May 09 06:33	28° 8 18'10		morning set	5101 Apr 01 16:03	3° Υ '00'24	
asc. Houc	5100 May 09 00:33 5100 May 10 03:01	0°II		•	5101 Apr 05 21:22	10° Υ 11'58	1.39487 AU
arraning may al	•	0 H 25°H48'20	10010122	max. Earth dist.	3101 Apr 03 21.22	10 11138	1.3946/ AU
evening max el	5100 May 26 04:18		19°19'33		5101 A 12 12 15	2200055126	1044120
	5100 Jun 01 23:09	0.20		superior conj	5101 Apr 13 13:15	23°Y55'36	
retrograde	5100 Jun 04 09:27	0°518'18		minimum elong	5101 Apr 13 18:16	24° Y 18'48	1°43′57
evening set	5100 Jun 06 08:38	0°506'54			5101 Apr 16 19:11	0°8	
	5100 Jun 06 21:29	30°RⅡ		evening rise	5101 Apr 23 01:45	12° 8 00'46	
inferior conj	5100 Jun 14 21:11	25° Ⅱ 58'55		asc. node	5101 Apr 26 03:36	17° 8 53'04	
minimum elong	5100 Jun 14 21:01	25° Ⅱ 59'12	0°04'02		5101 May 03 00:41	Π $^{\circ}0$	
transit middle	5100 Jun 14 21:01	25° Ⅱ 59'12	0°04'02	evening max el	5101 May 09 06:17	8° Ⅱ 05'35	18°35'30
transit begin	5100 Jun 14 17:17	26° Ⅱ 05'20		retrograde	5101 May 17 01:57	11° Ⅱ 56′59	
transit end	5100 Jun 15 00:45	25° Ⅱ 53'03		evening set	5101 May 19 07:09	11° Ⅱ 39'26	
desc. node	5100 Jun 14 15:41	26° Ⅱ 07'58		inferior conj	5101 May 26 23:39	7° Ⅱ 12'35	1°33'20
min. Earth dist.	5100 Jun 17 14:35	24° Ⅱ 11'53	0.56003 AU	minimum elong	5101 May 27 02:43	7° Ⅱ 06'41	1°32'20
morning rise	5100 Jun 23 06:28	21° Ⅱ 15′10		min. Earth dist.	5101 May 30 08:21	4° Ⅱ 38'31	0.57755 AU
direct	5100 Jun 28 02:52	20° Ⅲ 21'23		desc. node	5101 Jun 01 12:41	3° Ⅱ 09'12	
morning max el	5100 Jul 12 06:02	27° Ⅱ 31'56	25°15'16	morning rise	5101 Jun 03 19:02	1° Ⅱ 53'54	
. 8	5100 Jul 14 16:06	0ಂತಾ		direct	5101 Jun 09 13:34	0° I I30'06	
	5100 Aug 03 04:13	0°N		morning max el	5101 Jun 23 22:37	8° Ⅱ 06'32	26°40'25
asc. node	5100 Aug 05 05:50	4° Ω 08'19		morning max cr	5101 Jul 10 09:36	0°95	20 1023
morning set	5100 Aug 07 03:56	9° Ω 41'58		morning set	5101 Jul 23 08:11	24°9528'33	
morning set	5100 Aug 07 21.50	9 0641 30		asc. node	5101 Jul 23 02:51	24°900'28	
	5100 A 14 20 12	240 0 46117	1025110	asc. node			
superior conj	5100 Aug 14 20:13	24° Ω 46'17			5101 Jul 25 22:05	0 ° Ω	
minimum elong	5100 Aug 14 18:01	24° Ω 34'18	1°25'02		5101 7 1 20 07 52	00.04440	1000150
max. Earth dist.	5100 Aug 16 02:43	27° Ω 33'13	1.32490 AU	superior conj	5101 Jul 30 07:52	9° Ω 41'02	1°08'58
	5100 Aug 17 05:43	0° m		minimum elong	5101 Jul 30 05:34	9° Ω 28'22	1°08'36
evening rise	5100 Aug 21 23:05	10°m/00'39		max. Earth dist.	5101 Jul 30 13:10	10° Ω 10′20	1.32014 AU
	5100 Sep 01 11:28	0∘ ত		evening rise	5101 Aug 06 04:54	24° Ω 37'35	
desc. node	5100 Sep 10 14:57	14° ≏ 30'23			5101 Aug 08 19:16	0° m þ	
	5100 Sep 23 11:14	0°M₊			5101 Aug 26 06:44	0∘ ऌ	
evening max el	5100 Sep 23 09:47	29° ≙ 56'33	27°23'50	desc. node	5101 Aug 28 11:58	2° ≙ 59'38	
retrograde	5100 Oct 07 04:30	7°M11'06		evening max el	5101 Sep 05 13:59	12° ≏ 09'17	26°51'32
evening set	5100 Oct 14 08:39	4°M43'42		retrograde	5101 Sep 19 11:35	19° ≏ 19'10	
min. Earth dist.	5100 Oct 17 23:48	1° M 47'46	0.62465 AU	evening set	5101 Sep 26 10:04	17° ≙ 14'56	
	5100 Oct 19 21:46	30° Ŗ Ω		min. Earth dist.	5101 Sep 30 04:04	14° ≏ 37'15	0.60463 AU
inferior conj	5100 Oct 20 20:58	29° ≏ 04'48	-3°31'30	inferior conj	5101 Oct 03 08:59	11° ≏ 58'25	-4°27'29
minimum elong	5100 Oct 21 02:51	28° ♀ 50'53	3°29'39	minimum elong	5101 Oct 03 15:09	11° ≏ 45'36	4°26'05
morning rise	5100 Oct 27 22:47	23° £ 58'16		morning rise	5101 Oct 10 22:14	7° £ 13'11	
direct	5100 Oct 30 07:19	23° ≏ 33'18		direct	5101 Oct 13 06:03	6° £ 52'23	
asc. node	5100 Nov 01 05:06	23° ♀ 50'09		asc. node	5101 Oct 19 02:06	9° £ 10′04	
morning max el	5100 Nov 06 01:59	27° ♀ 01'03	17°50'19	morning max el	5101 Oct 20 14:57	10° ≙ 30'57	18°05'32
morning man vi	5100 Nov 08 16:56	0°M	1, 5015		5101 Nov 02 10:21	0°M	10 00 02
morning set	5100 Nov 22 01:39	21°M53'39		morning set	5101 Nov 05 09:11	5°M28'54	
morning set	5100 Nov 26 15:16	0° ⊼ ¹		morning sec	31011107 03 07.11	3 1102034	
	3100 1101 20 13.10	0 %				w	1902!11
superior conj				superior coni	5101 Nov 15 03:35	23°III 26'38	
minimum elong	5100 Dec 03 07:59	110 .7 12.//11	0°29'50	superior conj	5101 Nov 15 03:35 5101 Nov 15 07:33	23°M.26'38	
minimum elong	5100 Dec 03 07:58	11° 🗷 34'11	0°29'50	superior conj minimum elong	5101 Nov 15 07:33	23° M 44'17	
1 1	5100 Dec 03 10:42	11° ∡ ⁴45'43	0°29'50 0°29'28	minimum elong	5101 Nov 15 07:33 5101 Nov 18 21:04	23° M 44'17 0° ✓	1°02'42
desc. node	5100 Dec 03 10:42 5100 Dec 07 14:13	11° х 45'43 18° х 41'02	0°29'28	minimum elong max. Earth dist.	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23	23° M .44'17 0° √ 6° √ 41'46	
desc. node max. Earth dist.	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05	11° ₹ 45'43 18° ₹ 41'02 23° ₹ 09'59		minimum elong max. Earth dist. desc. node	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15	23°M44'17 0° 🞜 6° 🞜 41'46 9° 🞜 27'44	1°02'42
max. Earth dist.	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34	11°ダ45'43 18°ダ41'02 23°ダ09'59 0°る	0°29'28	minimum elong max. Earth dist.	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41	23°M44'17 0°\$\mathred{s}\tag{4}1'46 9°\$\mathred{s}\tag{27'44} 15°\$\mathred{s}\tag{28'21}	1°02'42
	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31	11°ダ45'43 18°ダ41'02 23°ダ09'59 0°る 5°る28'53	0°29'28	minimum elong max. Earth dist. desc. node	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹	1°02'42
max. Earth dist.	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09	11°¾45'43 18°¾41'02 23°¾09'59 0°♂ 5°♂28'53 0°≈	0°29'28 1.43475 AU	minimum elong max. Earth dist. desc. node evening rise	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈	1°02'42 1.41718 AU
max. Earth dist. evening rise evening max el	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29	11°¾45'43 18°¾41'02 23°¾09'59 0°♂ 5°♂28'53 0°≈ 18°≈28'46	0°29'28	minimum elong max. Earth dist. desc. node evening rise evening max el	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32	1°02'42 1.41718 AU
max. Earth dist. evening rise evening max el retrograde	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15	11° ₹45'43 18° ₹41'02 23° ₹09'59 0° ₹5 5° ₹528'53 0° ≈ 18° ≈28'46 23° ≈44'14	0°29'28 1.43475 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51	1°02'42 1.41718 AU
max. Earth dist. evening rise evening max el retrograde asc. node	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21	11°ズ45'43 18°ズ41'02 23°ズ09'59 0°उ 5°उ28'53 0°≈ 18°≈28'46 23°≈44'14 23°≈33'24	0°29'28 1.43475 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32	1°02'42 1.41718 AU
max. Earth dist. evening rise evening max el retrograde asc. node evening set	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20	11° 🗷 45'43 18° 🗷 41'02 23° 🗷 09'59 0° 云 5° 云 28'53 0° ≈ 18° ≈ 28'46 23° ≈ 44'14 23° ≈ 33'24 22° ≈ 03'45	0°29'28 1.43475 AU 21°27'06	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10	1°02'42 1.41718 AU
max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20 5101 Feb 05 08:25	11°ズ45'43 18°ズ41'02 23°ズ09'59 0°उ 5°उ28'53 0°≈ 18°≈28'46 23°≈44'14 23°≈33'24	0°29'28 1.43475 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22 5102 Jan 20 11:05	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10 30° ₹₹	1°02'42 1.41718 AU 22°44'40
max. Earth dist. evening rise evening max el retrograde asc. node evening set	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20	11° 🗷 45'43 18° 🗷 41'02 23° 🗷 09'59 0° 云 5° 云 28'53 0° ≈ 18° ≈ 28'46 23° ≈ 44'14 23° ≈ 33'24 22° ≈ 03'45	0°29'28 1.43475 AU 21°27'06	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10	1°02'42 1.41718 AU
max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20 5101 Feb 05 08:25	11° ₹45′43 18° ₹41′02 23° ₹09′59 0° ₹ 5° ₹28′53 0° ≈ 18° ≈28′46 23° ≈44′14 23° ≈33′24 22° ≈03′45 15° ≈47′53	0°29'28 1.43475 AU 21°27'06 2°28'01	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22 5102 Jan 20 11:05	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10 30° ₹₹	1°02'42 1.41718 AU 22°44'40
max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20 5101 Feb 05 08:25 5101 Feb 05 06:00	11° ₹45′43 18° ₹41′02 23° ₹09′59 0° ₹ 5° ₹28′53 0° ≈ 18° ≈28′46 23° ≈44′14 23° ≈33′24 22° ≈03′45 15° ≈47′53 15° ≈56′16	0°29'28 1.43475 AU 21°27'06 2°28'01 2°27'18	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node inferior conj	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22 5102 Jan 20 11:05 5102 Jan 20 16:28	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10 30° ₹₹ 29° ₹41'23	1°02'42 1.41718 AU 22°44'40 1°48'07
max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20 5101 Feb 05 08:25 5101 Feb 05 06:00 5101 Feb 05 13:57	11° ₹45′43 18° ₹41′02 23° ₹09′59 0° ₹ 5° ₹28′53 0° ≈ 18° ≈28′46 23° ≈44′14 23° ≈33′24 22° ≈03′45 15° ≈47′53 15° ≈56′16 15° ≈28′45	0°29'28 1.43475 AU 21°27'06 2°28'01 2°27'18	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node inferior conj minimum elong	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22 5102 Jan 20 11:05 5102 Jan 20 16:28 5102 Jan 20 14:20	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10 30° ₹ 29° ₹41'23 29° ₹48'46	1°02'42 1.41718 AU 22°44'40 1°48'07 1°47'22
max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	5100 Dec 03 10:42 5100 Dec 07 14:13 5100 Dec 10 08:05 5100 Dec 14 14:34 5100 Dec 18 02:31 5101 Jan 03 12:09 5101 Jan 17 21:29 5101 Jan 26 18:15 5101 Jan 28 04:21 5101 Jan 31 00:20 5101 Feb 05 08:25 5101 Feb 05 13:57 5101 Feb 10 11:30	11° 🗷 45'43 18° 🗷 41'02 23° 🗷 09'59 0° 💍 5° 🗷 28'53 0° ≈ 18° ≈ 28'46 23° ≈ 44'14 23° ≈ 33'24 22° ≈ 03'45 15° ≈ 47'53 15° ≈ 56'16 15° ≈ 28'45 9° ≈ 35'38	0°29'28 1.43475 AU 21°27'06 2°28'01 2°27'18 0.67961 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	5101 Nov 15 07:33 5101 Nov 18 21:04 5101 Nov 22 19:23 5101 Nov 24 11:15 5101 Nov 28 03:41 5101 Dec 07 11:52 5101 Dec 29 15:04 5101 Dec 31 14:34 5102 Jan 10 13:56 5102 Jan 15 07:37 5102 Jan 15 01:22 5102 Jan 20 11:05 5102 Jan 20 16:28 5102 Jan 20 14:20 5102 Jan 20 10:24	23°M44'17 0° ₹ 6° ₹41'46 9° ₹27'44 15° ₹28'21 0° ₹ 0° ≈ 2° ≈05'32 8° ≈00'51 6° ≈04'32 6° ≈17'10 30° ₹ 29° ₹41'23 29° ₹48'46 0° ≈02'22	1°02'42 1.41718 AU 22°44'40 1°48'07 1°47'22

morning max el	5102 Feb 08 09:05	26° ප 56'41	21°44'52	morning max el	5103 Jan 22 05:05	10° る 38'25	20°27'33
morning max cr	5102 Feb 11 04:54	0°≈	21 4432	morning max er	5103 Feb 06 00:41	0°≈	20 27 33
desc. node	5102 Feb 20 10:31	11° ≈ 56'31		desc. node	5103 Feb 07 07:33	1°≈53'20	
	5102 Mar 04 18:15	0°) €		morning set	5103 Feb 19 17:27	20°≈41'46	
morning set	5102 Mar 12 16:25	12°) €21'39		C	5103 Feb 25 15:56	0°) €	
max. Earth dist.	5102 Mar 18 20:56	22°) (26'11	1.41627 AU	max. Earth dist.	5103 Mar 01 03:30	5°) 33'48	1.43441 AU
	5102 Mar 23 08:32	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	5103 Mar 07 11:04	15° ¥ 53'33	-2°08'46
superior conj	5102 Mar 26 12:11	5° Y 27'37	-2°02'57	minimum elong	5103 Mar 07 10:15	15° ¥ 50′07	2°08'46
minimum elong	5102 Mar 26 15:52	5° Ƴ 43'49	2°02'47		5103 Mar 15 18:25	0° Y	
evening rise	5102 Apr 06 07:22	24° Y 58'05		evening rise	5103 Mar 19 20:41	7° Y 08'33	
	5102 Apr 09 01:10	0°8		asc. node	5103 Mar 30 21:41	25° Y ′53'55	
asc. node	5102 Apr 13 00:38	7° 8 07'13			5103 Apr 02 17:26	0°8	
evening max el	5102 Apr 22 15:08	20° 8 53'05	18°11'34	evening max el	5103 Apr 06 03:29	4° 8 02'16	18°07'11
retrograde	5102 Apr 29 13:06	24° 8 22'11		retrograde	5103 Apr 12 14:59	7° 8 24'21	
evening set	5102 May 02 01:07	23° 8 55'30	2020145	evening set	5103 Apr 15 09:23	6° 8 46'39	2015125
inferior conj	5102 May 08 23:25	19° 8 07'59		inferior conj	5103 Apr 21 17:20	1° 8 39'18	
minimum elong	5102 May 09 02:46	19° 8 00'26	2°38'59	minimum elong	5103 Apr 21 19:25	1° 8 33'57	3°17'09
min. Earth dist.	5102 May 12 08:10	16° 8 07'53	0.59891 AU	min. Earth dist.	5103 Apr 23 07:44	30° ₹Ƴ 28° Ƴ 37'53	0.62001 AII
morning rise desc. node	5102 May 16 01:50 5102 May 19 09:44	13° 8 22'18		min. Earth dist.	5103 Apr 24 16:17 5103 Apr 28 03:48	28° Y 37'33 25° Y 37'12	0.62081 AU
direct	5102 May 19 09:44 5102 May 22 13:08	11° 8 24'05		direct	5103 Apr 28 03:48 5103 May 04 23:30	23° Y 09'18	
morning max el	5102 Jun 05 21:37	19° 8 16'42	27°35'17	desc. node	5103 May 04 23:30 5103 May 06 06:46	23° Y 14'22	
morning max ci	5102 Jun 14 23:45	0°Ⅱ	27 33 17	dese. Hode	5103 May 17 22:01	0°8	
	5102 Jul 03 03:28	0°©		morning max el	5103 May 17 22:01 5103 May 19 02:42	.T.	27°52'53
morning set	5102 Jul 07 15:19	9° 5 03'23		morning man er	5103 Jun 09 04:10	0°II	2, 5255
asc. node	5102 Jul 09 23:52	14°902'01		morning set	5103 Jun 21 17:21	23° II 20'25	
max. Earth dist.	5102 Jul 14 00:28	22°547'25	1.31953 AU		5103 Jun 24 22:19	0°ಅ	
				asc. node	5103 Jun 26 20:56	4°9508'39	
superior conj	5102 Jul 14 19:24	24°931'47	0°48'26	max. Earth dist.	5103 Jun 27 08:41	5° © 11'58	1.32319 AU
minimum elong	5102 Jul 14 17:29	24° 5 21'09	0°48'02				
	5102 Jul 17 06:54	$0^{\circ}\Omega$		superior conj	5103 Jun 29 05:08	9° © 13'12	0°24'13
evening rise	5102 Jul 21 14:35	9° Ω 22'58		minimum elong	5103 Jun 29 04:02	9° 5 07'12	0°23'58
	5102 Aug 01 04:25	0° m p		evening rise	5103 Jul 06 02:11	24° © 10'37	
desc. node	5102 Aug 15 08:59	20° m 22'00			5103 Jul 08 20:55	$0^{\circ}\Omega$	
evening max el	5102 Aug 18 10:31	23° m 31'51	25°47'03		5103 Jul 27 02:56	0° ™	
	5102 Aug 28 09:13	0∘ ಹ		evening max el	5103 Jul 31 00:28	4° m)11'16	24°18'43
retrograde	5102 Sep 01 09:29	0° £ 38'12		desc. node	5103 Aug 02 06:00	6°Mp11′07	
_	5102 Sep 05 09:11	30°R Mp		retrograde	5103 Aug 13 20:22	11° m)09'19	
evening set	5102 Sep 07 13:46	29° m 07'52	0.50200.433	evening set	5103 Aug 18 17:04	10° Mp 16'41	0.56545.434
min. Earth dist.	5102 Sep 11 22:43			min. Earth dist.	5103 Aug 24 11:21	7° Mp 22'42	
inferior conj	5102 Sep 15 03:12	24° Mp 14'23		inferior conj	5103 Aug 27 01:19	5° Mp 45'26	
minimum elong	5102 Sep 15 07:01 5102 Sep 23 02:34	24° Mp 07'29	5°06'46	minimum elong	5103 Aug 26 23:31	5° Mp 48'15 1° Mp 44'18	5-15/39
morning rise direct	5102 Sep 25 02.34 5102 Sep 25 13:03	19° Mp 52'30 19° Mp 33'30		morning rise direct	5103 Sep 04 08:28 5103 Sep 07 00:55	1° Mg 25'06	
morning max el	5102 Sep 23 13:03 5102 Oct 03 21:08	23° m/32'38	18°41'13	morning max el	5103 Sep 07 00:33 5103 Sep 16 17:21	5° m) 56'37	19°38'35
asc. node	5102 Oct 05 23:09	25° m/45'48	10 41 15	asc. node	5103 Sep 10 17:21 5103 Sep 22 20:12	13° m) 22'19	17 30 33
use. Houe	5102 Oct 09 03:50	0ಂ ರ		use. Houe	5103 Oct 02 05:47	0° ⊽	
morning set	5102 Oct 20 04:02	19° £ 35'29		morning set	5103 Oct 04 06:37	4° £ 03'48	
C	5102 Oct 25 12:27	0° M		C			
				superior conj	5103 Oct 12 04:33	19° ≏ 59'23	1°38'53
superior conj	5102 Oct 28 20:13	6°M20'06	1°25'55	minimum elong	5103 Oct 12 06:18	20° ≏ 08'01	1°38'48
minimum elong	5102 Oct 28 23:28	6°M35'20	1°25'36		5103 Oct 17 09:11	0°M₊	
max. Earth dist.	5102 Nov 05 01:34	19°M29'02	1.39659 AU	max. Earth dist.	5103 Oct 18 06:09	1° M 37'55	1.37563 AU
evening rise	5102 Nov 09 02:42	26°M27'14		evening rise	5103 Oct 22 00:20	8° M 27′59	
desc. node	5102 Nov 11 08:16	0° ∡ 10'47		desc. node	5103 Oct 29 05:17	20°M46'13	
	5102 Nov 11 05:39	0° ∡			5103 Nov 04 01:06	0° ∡ ¹	
	5102 Dec 01 03:26	0° ろ		evening max el	5103 Nov 26 16:54	29° ∡ ¹28'17	25°20'14
evening max el	5102 Dec 14 04:18	15°₹45'14	24°04'39		5103 Nov 27 06:01	0°る	
retrograde	5102 Dec 25 06:22	22°る16'24		retrograde	5103 Dec 08 18:29	6° る 25'47	
evening set	5102 Dec 30 12:52	20°る04'39		evening set	5103 Dec 14 14:26	4° る 00'19	
asc. node	5103 Jan 01 22:24	17° る 37'01	1001100	min T d V c	5103 Dec 18 07:49	30°₹ ₹	0 (7225 117
inferior conj	5103 Jan 04 23:52	13° る 38'16	1°01'08	min. Earth dist.	5103 Dec 19 00:53	29° × 705'48	0.67325 AU
minimum elong min. Earth dist.	5103 Jan 04 22:29 5103 Jan 04 06:50	13°る42'57 14°る35'53	1°00'36 0.67896 AU	asc. node inferior conj	5103 Dec 19 19:28 5103 Dec 20 04:49	28° 尽 05'42 27° 尽 35'21	0°07'57
morning rise	5103 Jan 04 06:30 5103 Jan 10 08:09	7° る 34'50	0.07090 AU	minimum elong	5103 Dec 20 04:49 5103 Dec 20 04:37	27° × '35'21 27° × '36'01	0°07'57 0°07'53
direct	5103 Jan 14 06:46	6°る06'33		transit middle	5103 Dec 20 04:37	27° ₹ '36'01	0°07'53
411001	5105 Juli 14 00.40	0 00000		transit initialic	5105 Dec 20 04.57	2, 5001	0 0133

transit begin	5103 Dec 20 02:11	27° ∡ ¹43'55		inferior conj	5104 Dec 03 05:25	11° ∡ 129'43	-0°50'21
transit end	5103 Dec 20 07:03	27° × 28'07		minimum elong	5104 Dec 03 05:25 5104 Dec 03 06:47	11° × 25'31	0°49'45
morning rise	5103 Dec 25 19:05	21° × 39'13		asc. node	5104 Dec 05 16:30	8° × 38'07	0 15 15
direct	5103 Dec 29 05:32	20° х 31'12		morning rise	5104 Dec 09 03:41	5° х 43′27	
morning max el	5104 Jan 05 08:57	24° х 30'41	19°23'45	direct	5104 Dec 12 03:54	4° ₹ 52'15	
	5104 Jan 10 01:49	0°ਰ		morning max el	5104 Dec 18 19:41	8° х 30′26	18°35'42
greatest brilliancy	5104 Jan 18 13:47	12° る 05'37	-0.7m		5105 Jan 03 01:46	0°⋜	
desc. node	5104 Jan 25 04:33	22° る 09'16		morning set	5105 Jan 08 11:04	8° る 31'49	
morning set	5104 Jan 29 15:42	29° ප 02'20		desc. node	5105 Jan 11 01:35	12° る 39'19	
-	5104 Jan 30 06:37	0° ≈			5105 Jan 22 02:01	0° ≈	
max. Earth dist.	5104 Feb 11 16:45	19° ≈ 24'11	1.44714 AU				
				superior conj	5105 Jan 24 13:21	3° ≈ 52'35	-1°24'51
superior conj	5104 Feb 15 08:40	25° ≈ 13′08	-1°56'35	minimum elong	5105 Jan 24 04:04	3° ≈ 16′14	1°23'51
minimum elong	5104 Feb 15 01:35	24° ≈ 44'52	1°56'07	max. Earth dist.	5105 Jan 24 10:51	3° ≈ 42'47	1.45305 AU
	5104 Feb 18 08:16	0° ∀		evening rise	5105 Feb 09 06:28	28° ≈ 40'31	
evening rise	5104 Feb 29 13:13	18° ∺ 23′03			5105 Feb 10 02:26	0° ∀	
	5104 Mar 07 12:40	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	5105 Feb 17 19:42	12° ℋ 17'00	-0.8m
asc. node	5104 Mar 16 18:45	14° Y 03'47			5105 Mar 02 06:29	0° Υ	
evening max el	5104 Mar 19 16:14	17° Y 24'31	18°21'38	evening max el	5105 Mar 03 02:50	0° Υ 53'54	18°53'58
retrograde	5104 Mar 26 02:57	20° ℃ 53'11		asc. node	5105 Mar 03 15:47	1° Y 25'55	
evening set	5104 Mar 29 03:39	20° Υ 03'11		retrograde	5105 Mar 09 21:12	4° Υ 41'14	
inferior conj	5104 Apr 04 01:10	14° Υ 37'17	3°32'15	evening set	5105 Mar 13 04:37	3° Y 38'04	
minimum elong	5104 Apr 04 01:37	14° Υ 36'01	3°32'14		5105 Mar 17 02:08	30° R \ (5510.4	2020145
min. Earth dist.	5104 Apr 06 09:34	11° Υ 55'56 8° Υ 26'54	0.64068 AU	inferior conj	5105 Mar 18 19:08		3°29'45 3°29'40
morning rise	5104 Apr 09 22:42	5° Υ 41'07		minimum elong	5105 Mar 18 18:10	25° H 48'03	0.65698 AU
direct desc. node	5104 Apr 16 18:18 5104 Apr 22 03:48	7° Υ 08'33		min. Earth dist.	5105 Mar 20 11:51 5105 Mar 24 07:18	23° X 48'03 21° X 41'13	0.03098 AU
morning max el	5104 Apr 22 03:48 5104 Apr 30 11:29	13° Υ 39'02	27°33'38	morning rise direct	5105 Mar 24 07.18 5105 Mar 30 19:56	18° H 51'26	
morning max er	5104 May 13 15:47	0° 8	27 33 36	desc. node	5105 Mai 30 19:30 5105 Apr 09 00:51	23°\(\frac{1}{3}\)120	
	5104 May 31 18:14	0°II		morning max el	5105 Apr 12 21:26	26° H 34'48	26°42'59
morning set	5104 Jun 04 11:46	7° Ⅱ 11'38		morning max cr	5105 Apr 16 01:45	20 γ 34 40	20 42 37
max. Earth dist.	5104 Jun 09 09:53	17° I I12'05	1.33132 AU		5105 May 07 06:20	0°8	
man. Darun dist.	010.0411 07 07.00	1, 21200	1.55152110	morning set	5105 May 18 19:18	20° 8 27'24	
superior conj	5104 Jun 12 11:07	23° Ⅱ 39'04	-0°03'00	max. Earth dist.	5105 May 23 00:53	28° 8 42'01	1.34413 AU
minimum elong	5104 Jun 12 11:16	23° II 39'54			5105 May 23 16:29	0°II	
behind sun begin	5104 Jun 12 05:57	23° Ⅱ 11'29			,		
behind sun end	5104 Jun 12 16:35	24° Ⅱ 08′20		superior conj	5105 May 27 11:08	7° Ⅱ 42'49	-0°32'12
asc. node	5104 Jun 12 18:01	24° Ⅱ 15'59		minimum elong	5105 May 27 12:52	7° Ⅱ 51'49	0°31'52
	5104 Jun 15 10:02	0°€		asc. node	5105 May 30 15:02	14° Ⅱ 19'38	
evening rise	5104 Jun 19 13:47	8°954'16		evening rise	5105 Jun 03 23:27	23° Ⅱ 27'47	
	5104 Jun 30 13:49	$0^{\circ}\Omega$			5105 Jun 07 04:09	0 \circ \odot	
evening max el	5104 Jul 11 13:43	14° Ω 32'45	22°41'10	evening max el	5105 Jun 23 10:10	25° © 08'48	21°09'36
desc. node	5104 Jul 19 03:02	19° Ω 53'50			5105 Jun 30 09:07	$0^{\circ}\Omega$	
retrograde	5104 Jul 24 18:29	21° Ω 06′58		retrograde	5105 Jul 05 07:29	1° Ω 00′02	
evening set	5104 Jul 28 02:38	20° Ω 42'31		desc. node	5105 Jul 06 00:04	0° Ω 58'54	
min. Earth dist.	5104 Aug 04 21:39		0.55246 AU	evening set	5105 Jul 07 13:53	0° Ω 48'04	
inferior conj	5104 Aug 06 04:52	16° Ω 32'11			5105 Jul 10 12:19	30° ₹ 5	
minimum elong	5104 Aug 05 21:11	16° Ω 43'10	4°35'43	inferior conj	5105 Jul 16 22:16	26°950'02	
morning rise	5104 Aug 14 17:47	12° Ω 41'56		minimum elong	5105 Jul 16 14:05	27°501'32	
direct	5104 Aug 17 19:03	12° Ω 20'25	20057120	min. Earth dist.	5105 Jul 17 08:04	26°936'17	0.54792 AU
morning max el	5104 Aug 29 01:27	17° Ω 35'19	20°57′29	morning rise	5105 Jul 25 14:43	22°553'16	
1-	5104 Sep 07 15:50	0°Mp		direct	5105 Jul 29 04:17	22°525'54	22022152
asc. node	5104 Sep 08 17:15	1° Mp 45'57		morning max el	5105 Aug 10 22:18	28°529'30	22-33-33
morning set	5104 Sep 17 14:18 5104 Sep 22 23:28	18° ™ 46'41 0° ≏		asc. node	5105 Aug 12 11:09 5105 Aug 26 14:16	0°Ω 20°Ω44'46	
	3104 Sep 22 23.28	0 ==		asc. node	5105 Aug 20 14.10 5105 Aug 31 07:04	0°Mp	
superior conj	5104 Sep 25 00:05	4° £ 11'40	10/13/20	morning set	5105 Aug 51 07:04 5105 Sep 02 00:52	3° m)37'14	
minimum elong	5104 Sep 25 00:03	4° £ 11'40' 4° £ 12'43		morning set	5105 Sep 02 00.52	לבו / כאוו כ + 11 / כאוו כ	
max. Earth dist.	5104 Sep 29 15:09			superior conj	5105 Sep 09 03:15	18° m 45'37	1°41'01
evening rise	5104 Oct 03 17:13	21° £ 22'24	1.55057 AU	minimum elong	5105 Sep 09 03:13 5105 Sep 09 02:12	18° m) 39'58	1°40'59
5 1 0 mm 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	5104 Oct 08 11:15	0°M		max. Earth dist.	5105 Sep 12 08:17	25° m 30'02	1.34100 AU
desc. node	5104 Oct 15 02:18	11°M09'25			5105 Sep 12 00:17 5105 Sep 14 13:03	29 ಗ್ರು30 02 0° ೧	
	5104 Oct 27 21:48	0° ∡ 7		evening rise	5105 Sep 17 00:56	4° £ 57'53	
evening max el	5104 Nov 08 05:43	13° ∡ 11'30	26°23'58	<i>U</i> -	5105 Oct 01 04:38	0° M ,	
retrograde	5104 Nov 21 01:23	20° х 23′47		desc. node	5105 Oct 01 23:20	1°M13'32	
evening set	5104 Nov 27 10:31	17° ∡ ¹48'06		evening max el	5105 Oct 21 18:28	26°M44'52	27°08'31
min. Earth dist.	5104 Dec 01 14:11	13° ∡ 28'48	0.66409 AU		5105 Oct 25 12:49	0° ∡ ¹	

ratragrada	5105 Nov 04 02:27	4° ₹ 02'27		ratragrada	5106 Oct 17 21:18	17° M .13'10	
retrograde evening set	5105 Nov 04 02:27 5105 Nov 10 22:52	1°×22'23		retrograde evening set	5106 Oct 17 21:18 5106 Oct 25 00:42	14°M37'32	
evening set	5105 Nov 10 22:32 5105 Nov 12 13:00	30°RM		min. Earth dist.	5106 Oct 28 17:06		0.63533 AU
min. Earth dist.	5105 Nov 12 13:00 5105 Nov 14 20:16	27°M38'26	0.65142 AU	inferior conj	5106 Oct 28 17:00 5106 Oct 31 08:12	8°M47'21	
inferior conj	5105 Nov 14 20:10 5105 Nov 16 23:24	25°M15'44		minimum elong		8°M34'32	
3	5105 Nov 16 23.24 5105 Nov 17 02:38	25°M06'40	1°51'06		5106 Oct 31 13:17 5106 Nov 07 03:23	3°M30'23	2 34 03
minimum elong			1 31 00	morning rise			
asc. node	5105 Nov 22 13:31	20°M.06'19		asc. node	5106 Nov 09 10:32	3°M01'44	
morning rise	5105 Nov 23 07:28	19°M42'27		direct	5106 Nov 09 13:53	3°M01'38	17050114
direct	5105 Nov 25 23:38	19°M04'19	10004110	morning max el	5106 Nov 16 03:47	6°M26'34	17°50'14
morning max el	5105 Dec 02 10:55	22°M31'21	18°04'18	. ,	5106 Dec 01 15:07	0°⊀ 1°⊀44'33	
	5105 Dec 08 08:48	0° √		morning set	5106 Dec 02 15:14	1°×'44'33	
morning set	5105 Dec 20 12:04	19° ∡ 30'17			5106 D 14 00 44	220 727144	0006107
	5105 Dec 26 21:36	0°る		superior conj	5106 Dec 14 22:44	22° ₹ 37'44	0°06'07
desc. node	5105 Dec 28 22:36	3° る 18'34		minimum elong	5106 Dec 14 23:23	22° ∡ ′40′26	0°06'03
		🗕		behind sun begin	5106 Dec 14 14:24	22° ₹ 03'26	
superior conj	5106 Jan 03 20:00	12° ろ 44'24		behind sun end	5106 Dec 15 08:22	23° ∡ 17'23	
minimum elong	5106 Jan 03 15:02	12° る 24'45	0°39'27	desc. node	5106 Dec 15 19:36	24° ₹ 03'24	
max. Earth dist.	5106 Jan 07 06:36	18° る 10'43	1.45146 AU		5106 Dec 19 11:29	0°る	
	5106 Jan 14 20:09	0° ≈		max. Earth dist.	5106 Dec 21 00:36	2° る 28'44	1.44264 AU
evening rise	5106 Jan 20 03:01	8° ≈ 11'40		evening rise	5106 Dec 30 13:14	17° る 23'56	
greatest brilliancy	5106 Feb 02 11:49	28° ≈ 37'54	-0.7m		5107 Jan 07 20:20	0° ≈	
	5106 Feb 03 09:57	0° ℋ		evening max el	5107 Jan 28 10:14	27° ≈ 59'37	20°45'48
evening max el	5106 Feb 14 09:14	14°) €26′13	19°42'48		5107 Jan 30 13:30	0° ∀	
asc. node	5106 Feb 18 12:48	17°) 47'01		asc. node	5107 Feb 05 09:49	2° 升 52′18	
retrograde	5106 Feb 21 18:42	18°) 42'4 0		retrograde	5107 Feb 05 16:58	2° 升 52'47	
evening set	5106 Feb 25 09:47	17°) €25'35		evening set	5107 Feb 09 17:04	1°) €21'04	
inferior conj	5106 Mar 02 20:04	11°) €27'33	3°13'54		5107 Feb 11 04:58	30°R≈	
minimum elong	5106 Mar 02 18:09	11°) €33'53	3°13'34	inferior conj	5107 Feb 15 01:24	25° ≈ 10′38	2°47'23
min. Earth dist.	5106 Mar 03 21:58	10°) 01'40	0.66904 AU	minimum elong	5107 Feb 14 23:02	25°≈18'46	2°46'47
morning rise	5106 Mar 08 02:18	5° 升 12'53		min. Earth dist.	5107 Feb 15 13:57	24° ≈ 27'30	0.67688 AU
direct	5106 Mar 14 03:23	2°) 31′04		morning rise	5107 Feb 20 04:48	18° ≈ 56'53	
morning max el	5106 Mar 26 06:50	9°){ 46'07	25°29'30	direct	5107 Feb 25 16:01	16° ≈ 31'31	
desc. node	5106 Mar 26 21:52	10°) (24'40		morning max el	5107 Mar 08 15:32	23°≈04'53	24°03'01
	5106 Apr 11 06:38	$_{0}^{\circ}\Upsilon$		desc. node	5107 Mar 13 18:53	28° ≈ 49'28	
	5106 Apr 29 20:35	0°8			5107 Mar 14 17:58	0° ∀	
morning set	5106 May 01 11:39	2° 8 55'45			5107 Apr 04 15:28	0°Υ	
max. Earth dist.	5106 May 05 04:56	9° 8 49'00	1.36140 AU	morning set	5107 Apr 13 07:11	14° Υ 20'48	
max. Earth dist.	3100 May 03 0 1.30	<i>J</i> .5 00	1.501 10 110	max. Earth dist.	5107 Apr 17 01:09	20°Υ55'32	1.38213 AU
superior conj	5106 May 11 02:28	21° 8 16'49	-1°02'00	max. Lartii dist.	5107 Apr 22 00:18	0°8	1.50215710
minimum elong	5106 May 11 02:28 5106 May 11 05:54	21° 8 33'58			3107 Apr 22 00.16	٥ ٥	
minimum clong	5106 May 15 09:58	0° Ⅱ	1 0124	superior conj	5107 Apr 24 05:34	4° 8 11'19	1030113
asc. node	5106 May 17 12:04	4° Ⅱ 15'59		minimum elong	5107 Apr 24 10:20	4° 8 34'00	
evening rise	5106 May 17 12:04 5106 May 19 05:02	7° ∏ 44'40		evening rise	5107 May 03 03:53	21° 8 36'38	1 29 34
evening rise	•	்றி மூ		•	-		
avanina may al	5106 May 31 12:43 5106 Jun 05 18:40	6°922'16	19°54'04	asc. node	5107 May 04 09:05	23° 8 59'45 0° Ⅱ	
evening max el			19 34 04		5107 May 07 12:01		10050121
retrograde	5106 Jun 15 23:13	11°521'19		evening max el	5107 May 19 15:02	18°П17'13 22°П29'19	18°58'21
evening set	5106 Jun 17 21:16 5106 Jun 22 21:06	11° © 11'29 9° © 26'04		retrograde	5107 May 28 04:56	22° I I15'53	
desc. node			1010157	evening set	5107 May 30 06:07		0°40'45
inferior conj	5106 Jun 26 19:58	7°©10'32		inferior conj	5107 Jun 07 10:12	18° Ⅱ 00'27	
minimum elong	5106 Jun 26 16:41		1°09'44	minimum elong	5107 Jun 07 11:48	17° ∏ 57'39	0°40'09
min. Earth dist.	5106 Jun 28 20:29	5°956'45	0.55297 AU	desc. node	5107 Jun 09 18:07	16° Ⅱ 22'04	0.56650 444
morning rise	5106 Jul 05 10:12	2°547'17		min. Earth dist.	5107 Jun 10 12:09	15° Ⅱ 51'16	0.56670 AU
direct	5106 Jul 09 17:33	2°506'39		morning rise	5107 Jun 15 14:10	13° Ⅱ 00'54	
morning max el	5106 Jul 23 12:49	8° © 55'45	24°17'51	direct	5107 Jun 20 20:02	11° Ⅱ 55'30	
_	5106 Aug 08 00:58	$0^{\circ}\Omega$		morning max el	5107 Jul 05 03:14	19° ∏ 19'15	25°54'29
asc. node	5106 Aug 13 11:18	10° Ω 09'58			5107 Jul 14 04:10	0°€	
morning set	5106 Aug 17 12:35	18° Ω 30′23		asc. node	5107 Jul 31 08:20	29° © 53'39	
	5106 Aug 22 20:14	0° т р			5107 Jul 31 09:34	0° Ω	
				morning set	5107 Aug 01 23:49	3° Ω 20′25	
superior conj	5106 Aug 24 11:24	3°m/33'15	1°32'34				
minimum elong	5106 Aug 24 09:29	3°₩22'54	1°32'24	superior conj	5107 Aug 08 22:18		1°18'56
max. Earth dist.	5106 Aug 26 09:57	7° m 44'59	1.32955 AU	minimum elong	5107 Aug 08 20:01	18° Ω 14'22	1°18'37
evening rise	5106 Aug 31 19:39	19° m 04'16		max. Earth dist.	5107 Aug 09 17:54	20° Ω 14'47	1.32232 AU
	5106 Sep 06 10:19	0∘ ত			5107 Aug 14 05:53	0° ™	
desc. node	5106 Sep 18 20:21	20° ≏ 50'18		evening rise	5107 Aug 15 22:10	3°My31'54	
	5106 Sep 25 10:13	0° M			5107 Aug 30 04:41	0∘ ⊽	
evening max el	5106 Oct 04 05:39	9°M56'14	27°26'58	desc. node	5107 Sep 05 17:22	9° ≏ 48'24	

evening max el	5107 Sep 16 13:00	22° ₽ 33'07	27°14'08	evening max el	5108 Aug 28 14:10	4° £ 24'59	26°27'49
retrograde	5107 Sep 30 09:21	29° Ω 46'30		retrograde	5108 Sep 11 13:03	11° ≏ 33'41	
evening set	5107 Oct 07 12:23	27° Ω 27'07		evening set	5108 Sep 18 05:11	9° ≙ 43'05	
min. Earth dist.	5107 Oct 11 03:34	24° ≏ 40'46	0.61633 AU	min. Earth dist.	5108 Sep 22 03:44	7° ഫ 08'00	0.59571 AU
inferior conj	5107 Oct 14 04:48	21° ≏ 57'16	-3°56'34	inferior conj	5108 Sep 25 09:40	4° £ 36'06	-4°47'10
minimum elong	5107 Oct 14 11:02	21° ≏ 43'17	3°54'47	minimum elong	5108 Sep 25 15:15	4° £ 25'11	4°46'10
morning rise	5107 Oct 21 11:37	16° ≙ 59'44		morning rise	5108 Oct 03 03:27	0° ≏ 00'34	
direct	5107 Oct 23 19:18	16° ≏ 37'01			5108 Oct 03 04:17	30°R, Mp	
asc. node	5107 Oct 27 07:34	17° ≏ 31'03		direct	5108 Oct 05 11:49	29° m 40'53	
morning max el	5107 Oct 30 19:10	20° ഫ 08'22	17°54'23		5108 Oct 07 18:02	0∘ ⊽	
	5107 Nov 07 02:46	0°M		morning max el	5108 Oct 13 05:41	3° ≏ 27'25	18°18'05
morning set	5107 Nov 15 14:09	14° ™ 55′09		asc. node	5108 Oct 13 04:38	3° ≏ 24'53	
	5107 Nov 23 23:33	0° ∡ ¹		morning set	5108 Oct 29 03:03	28° ≙ 45'14	
					5108 Oct 29 18:46	0° M ₊	
superior conj	5107 Nov 26 03:59	3° ∡ ¹48'37	0°45'17				
minimum elong	5107 Nov 26 07:33	4° ≯ 04'04	0°44'48	superior conj	5108 Nov 07 09:12	16°ML08'40	1°14'06
desc. node	5107 Dec 02 16:37	14° ≯ 50'34		minimum elong	5108 Nov 07 13:01	16°M26'05	1°13'40
max. Earth dist.	5107 Dec 03 14:12	16° ∡ 19'22	1.42774 AU	max. Earth dist.	5108 Nov 14 22:53	29°M31'34	1.40864 AU
evening rise	5107 Dec 10 04:57	26° ∡ ′56'39			5108 Nov 15 05:33	0° ∡ ¹	
	5107 Dec 12 03:52	0°る		desc. node	5108 Nov 18 13:38	5° ∡ ³36′10	
	5108 Jan 01 16:15	0° ≈		evening rise	5108 Nov 19 14:59	7° ∡ ¹20'33	
evening max el	5108 Jan 11 05:56	11° ≈ 35′02	21°59'27		5108 Dec 04 06:52	0°₹	
retrograde	5108 Jan 20 14:06	17° ≈ 08'16		evening max el	5108 Dec 23 21:29	25° ප 13'22	23°18'52
asc. node	5108 Jan 23 06:50	16° ≈ 29'37			5108 Dec 29 18:42	0° ≈	
evening set	5108 Jan 25 00:49	15° ≈ 21'14		retrograde	5109 Jan 03 08:30	1°≈24'38	
inferior conj	5108 Jan 30 09:02	9° ≈ 01'41	2°12'01		5109 Jan 07 11:39	30°Rる	
minimum elong	5108 Jan 30 06:41	9°≈09'51	2°11'17	evening set	5109 Jan 08 07:25	29° る 21'56	
min. Earth dist.	5108 Jan 30 09:34	8°≈59'51	0.68068 AU	asc. node	5109 Jan 09 03:54	28°る35'18	1000100
morning rise	5108 Feb 04 12:23	2°≈50'31		inferior conj	5109 Jan 13 17:03	22°る57'01	1°29'00
direct	5108 Feb 09 09:01	0°≈46'20	22022150	minimum elong	5109 Jan 13 15:11	23°る03'27	1°28'19
morning max el	5108 Feb 19 01:49	6°≈29'59	22°33'50	min. Earth dist.	5109 Jan 13 06:22	23° る 33'43	0.68068 AU
desc. node	5108 Feb 28 15:54	17° ≈ 59'37 0°) €		morning rise direct	5109 Jan 18 22:51	16° ප් 50'11 15° ප් 08'52	
	5108 Mar 08 05:04	24°) (28'44			5109 Jan 23 05:17	13°808'32 20° 8 04'11	21010125
morning set	5108 Mar 24 00:07 5108 Mar 27 07:59	24°π28'44 0°Υ		morning max el	5109 Jan 31 17:22 5109 Feb 08 23:55	20° ≈	21°10'25
max. Earth dist.	5108 Mar 28 20:59	0 γ 2° Υ 36'17	1.40417 AU	desc. node	5109 Feb 08 25.55 5109 Feb 14 12:55	0 ≈ 7°≈41'53	
max. Earm dist.	3106 Wiai 26 20.39	2 1 30 17	1.4041 / AU	desc. Hode	5109 Feb 14 12:33 5109 Mar 01 10:12	0°)	
superior conj	5108 Apr 05 16:14	16° Ƴ 16'55	1053130	morning set	5109 Mar 01 10:12 5109 Mar 03 12:55	3° ₩ 18'18	
minimum elong	5108 Apr 05 21:01	16° Υ 38'34		max. Earth dist.	5109 Mar 10 23:11		1.42458 AU
minimum ciong	5108 Apr 13 02:08	0° 8	1 33 00	max. Earth dist.	310) Wai 10 23.11	15 7(1233	1.42430710
evening rise	5108 Apr 15 16:53	4° 8 56'17		superior conj	5109 Mar 18 05:26	27° ₩ 21'53	-2°07'19
asc. node	5108 Apr 20 06:08	13° 8 26'21		minimum elong	5109 Mar 18 07:37	27° \ 31'14	
use. Houe	5108 May 01 01:30	0°II		minimum ciong	5109 Mar 19 18:13	0°Υ	2 07 10
evening max el	5108 May 01 20:25	0° П 48'23	18°22'55	evening rise	5109 Mar 29 16:04	17° Ƴ 34'18	
retrograde	5108 May 09 05:24	4° ∏ 28'05			5109 Apr 05 15:47	0°8	
evening set	5108 May 11 13:30	4° Ⅱ 07'00		asc. node	5109 Apr 07 03:11	2° 8 29'37	
<i>8</i>	5108 May 18 08:06	30° ₹ 8		evening max el	5109 Apr 15 07:13	13° 8 46'25	18°07'23
inferior conj	5108 May 18 21:54	29° 8 31'44	2°05'19	retrograde	5109 Apr 21 23:13	17° 8 10'20	
minimum elong	5108 May 19 01:22	29° 8 24'35	2°04'18	evening set	5109 Apr 24 14:10	16° 8 39'00	
min. Earth dist.	5108 May 22 08:25	26° 8 43'19	0.58640 AU	inferior conj	5109 May 01 05:51	11° 8 42'58	2°58'55
morning rise	5108 May 26 10:09	24° 8 00'11		minimum elong	5109 May 01 08:46	11° 8 35'59	2°58'21
desc. node	5108 May 26 15:09	23° 8 53'39		min. Earth dist.	5109 May 04 11:21	8° 8 39'26	0.60841 AU
direct	5108 Jun 01 12:53	22° 8 21'20		morning rise	5109 May 08 01:14	5° 8 49'26	
	5108 Jun 15 19:39	Π $^{\circ}0$		desc. node	5109 May 13 12:10	3° 8 41'45	
morning max el	5108 Jun 15 22:15	0° Ⅱ 06′22	27°07'58	direct	5109 May 14 17:25	3° 8 37'27	
	5108 Jul 07 03:23	0 \circ \odot		morning max el	5109 May 28 23:46	11° 8 33'42	27°47'27
morning set	5108 Jul 16 08:57	18° 5 02'06			5109 Jun 12 11:07	Π °0	
asc. node	5108 Jul 17 05:23	19° 9 50'00			5109 Jun 29 08:52	0ංම	
	5108 Jul 21 21:50	0 ° Ω		morning set	5109 Jun 30 14:11	2°530'08	
				asc. node	5109 Jul 04 02:27	9° © 54'20	
superior conj	5108 Jul 23 10:08	3° Ω 20′26	1°00'45	max. Earth dist.	5109 Jul 06 15:27	15° © 25'15	1.32055 AU
minimum elong	5108 Jul 23 07:57	3° Ω 08′18	1°00'21				
max. Earth dist.	5108 Jul 23 04:57	2° Ω 51'44	1.31932 AU	superior conj	5109 Jul 07 21:10	18° © 08'11	0°38'35
evening rise	5108 Jul 30 05:53	18° Ω 12'53		minimum elong	5109 Jul 07 19:32	17°959'12	0°38'14
	5108 Aug 05 01:23	0° m			5109 Jul 13 07:04	0 \circ Ω	
desc. node	5108 Aug 22 14:24	27° m 51'51		evening rise	5109 Jul 14 16:40	3° Ω 00′29	
	5108 Aug 24 09:23	0∘ ⊽			5109 Jul 29 03:10	0° m)	

desc. node	5109 Aug 09 11:26	14° m 38'44		behind sun end	5110 Jun 22 08:00	2° 9 57'04	
evening max el	5109 Aug 10 07:51	-	25°11'46	evening rise	5110 Jun 29 04:29	17°947'17	
retrograde	5109 Aug 24 06:15	22° mp 31'47		0.0000	5110 Jul 05 04:28	0°N	
evening set	5109 Aug 29 22:31	21° mp 18'00		evening max el	5110 Jul 22 20:24	25° Ω 55'55	23°37'19
min. Earth dist.	5109 Sep 03 19:27	-	0.57563 AU	desc. node	5110 Jul 27 08:29	29° Ω 38'27	
inferior conj	5109 Sep 06 19:35	16° mp 34'27			5110 Jul 27 21:39	0° m)	
minimum elong	5109 Sep 06 21:22	16° Mp 31'26		retrograde	5110 Aug 05 11:20	2° Mp 46'10	
morning rise	5109 Sep 14 22:29	12° m/21'43	0 10 00	evening set	5110 Aug 09 16:35	2° m) 07'05	
direct	5109 Sep 17 11:17	12° Mp 02'44		0.0000	5110 Aug 14 13:03	30°R Ω	
morning max el	5109 Sep 26 07:57	16° m) 14'17	19°02'54	min. Earth dist.	5110 Aug 16 06:16		0.55907 AU
asc. node	5109 Sep 30 01:41	20° m 28'34		inferior conj	5110 Aug 18 09:11	27° Ω 45'19	
	5109 Oct 06 04:31	0∘ <u>⊽</u>		minimum elong	5110 Aug 18 04:34	27° Ω 52'13	
morning set	5109 Oct 13 01:40	13° Ω 02'59		morning rise	5110 Aug 26 19:02	23° Ω 50′52	
3				direct	5110 Aug 29 15:05	23° Ω 30'54	
superior conj	5109 Oct 21 09:11	29° Ω 23'49	1°32'31	morning max el	5110 Sep 08 23:03	28° Ω 19'05	20°09'43
minimum elong	5109 Oct 21 11:50	29° Ω 36'33	1°32'19		5110 Sep 10 15:12	0° m)	
	5109 Oct 21 16:43	0°M		asc. node	5110 Sep 16 22:44	8° m/26'22	
max. Earth dist.	5109 Oct 28 04:22	12°M03'25	1.38764 AU	morning set	5110 Sep 27 06:42	27° mp 38'19	
evening rise	5109 Oct 31 24:00	18°M47'06	1.50,01.110	morning sev	5110 Sep 28 10:25	0∘ ⊽	
desc. node	5109 Nov 05 10:41	26°M16'55				-	
	5109 Nov 07 17:30	0° ⊼ 7		superior conj	5110 Oct 04 22:46	13° ≏ 18'32	1°41'46
	5109 Nov 28 13:34	0°る		minimum elong	5110 Oct 04 23:50	13° £ 23'56	1°41'44
evening max el	5109 Dec 06 10:42	。 8° る 55'33	24°37'43	max. Earth dist.	5110 Oct 10 10:20	24° £ 03′28	1.36718 AU
retrograde	5109 Dec 17 23:01	15° る 38'21	2.37.3	man. Bartin digt.	5110 Oct 13 14:37	0°M	1.50710110
evening set	5109 Dec 23 11:18	13° る 20'29		evening rise	5110 Oct 14 06:16	1°M11'29	
asc. node	5109 Dec 27 00:56	9° පි 27'56		desc. node	5110 Oct 23 07:44	16°M47'52	
min. Earth dist.	5109 Dec 28 02:01	8° ප 06'18	0.67707 AU	dese. node	5110 Oct 31 20:56	0° ⊼	
inferior conj	5109 Dec 28 23:38	6° る 54'24	0°39'17	evening max el	5110 Nov 18 23:12	22° х 39'04	25°49'08
minimum elong	5109 Dec 28 22:42	6° る 57'31	0°38'55	retrograde	5110 Dec 01 08:57	29° х 44'05	20 .9 00
morning rise	5110 Jan 03 10:13	0° る 53'53		evening set	5110 Dec 07 10:47	27° х 13′25	
morning rise	5110 Jan 05 00:37	30°R. ✓		min. Earth dist.	5110 Dec 11 18:12	22°×734'06	0.66983 AU
direct	5110 Jan 07 03:33	29° ∡ ³34'25		inferior conj	5110 Dec 13 02:58	20°×750'43	
	5110 Jan 09 08:33	0°る		minimum elong	5110 Dec 13 03:23	20° √ 49'22	0°16'01
morning max el	5110 Jan 14 16:43	3° る 50'34	19°58'31	transit middle	5110 Dec 13 03:23	20° × 49'22	0°16'01
desc. node	5110 Feb 01 09:56	27° る 47'34	17 30 31	transit begin	5110 Dec 13 03:02	20° × 50'30	0 10 01
dese. Hode	5110 Feb 02 21:05	0°≈		transit end	5110 Dec 13 03:45	20° ₹ 48'15	
morning set	5110 Feb 10 09:31	11° ≈ 29'02		asc. node	5110 Dec 13 21:58	19° ₹ 51'09	
max. Earth dist.	5110 Feb 21 09:20	28°≈42'32	1.44068 AU	morning rise	5110 Dec 18 20:26	14° ₹ 58'46	
max. Lartii dist.	5110 Feb 22 04:43	0° ∀	1.44000710	direct	5110 Dec 22 02:17	13° × 58'25	
	3110100 22 01.13	٥٨		morning max el	5110 Dec 28 23:50	17° × 747'14	19°01'20
superior conj	5110 Feb 26 17:15	7° ¥ 18'13	-2°06'02	morning max or	5111 Jan 07 10:24	0°පි	19 01 20
minimum elong	5110 Feb 26 13:43	7° ¥ 03'46		desc. node	5111 Jan 19 06:58	18° る 10'22	
evening rise	5110 Mar 11 21:00	29° H 21'37	2 03 34	morning set	5111 Jan 20 14:39	20° ප 13'48	
evening rise	5110 Mar 12 05:57	0°Υ		morning set	5111 Jan 26 20:58	0°≈	
asc. node	5110 Mar 25 00:14	21° Υ 01'41		max. Earth dist.	5111 Feb 04 01:16	12° ≈ 48'25	1.45054 AU
evening max el	5110 Mar 29 20:04	27° Υ '01'51	18°11'03	max. Earth dist.	3111160 04 01.10	12 7040 23	1.43034710
evening max er	5110 Apr 03 01:20	0°8	10 11 05	superior conj	5111 Feb 06 05:54	16° ≈ 15'43	-1°45'18
retrograde	5110 Apr 05 06:01	0° 8 25'07		minimum elong	5111 Feb 05 05:54 5111 Feb 05 21:01	15°≈40'43	
retrograde	5110 Apr 07 10:43	30°RΥ		minimum ciong	5111 Feb 14 20:49	0° ∀	1 4433
evening set	5110 Apr 08 03:10	29° Υ '42'09		evening rise	5111 Feb 21 03:48	10°) 12′20	
inferior conj	5110 Apr 08 05:10 5110 Apr 14 06:10	24° Υ 26'25	3°26'10	evening rise	5111 Mar 05 10:26	0°Υ	
minimum elong	5110 Apr 14 00:10 5110 Apr 14 07:33	24° Υ 2023	3°26'02	asc. node	5111 Mar 11 21:16	8° Υ 53'00	
min. Earth dist.	5110 Apr 16 23:06	21° Y '31'41	0.62964 AU	evening max el	5111 Mar 13 08:07	10° Υ 27'47	18°33'13
morning rise	5110 Apr 20 10:43	18° Υ 20'08	0.02704710	retrograde	5111 Mar 19 00:07	14° Y '03'23	10 33 13
direct	5110 Apr 27 07:16	15° Υ 43'20		evening set	5111 Mar 23 00:38	13° Υ 07'56	
desc. node	5110 Apr 30 09:12	16° Υ 11'45		inferior conj	5111 Mar 28 18:47	7° Υ 34'19	3033103
morning max el	5110 Apr 30 09.12 5110 May 11 06:45	23° Υ 43'09	27°49'05	minimum elong	5111 Mar 28 18:34	7° Υ 34'56	3°33'02
morning max ci	5110 May 16 21:45	0° 8	21 7703	min. Earth dist.	5111 Mar 30 20:25	5°Υ06'20	0.64805 AU
	5110 May 16 21:45 5110 Jun 05 18:44	0°U		min. Earth dist.	5111 Mar 30 20:25 5111 Apr 03 11:52	1° Υ 21'46	0.04003 AU
morning set	5110 Jun 05 18:44 5110 Jun 14 13:17	16° Д 37'00		morning rise	5111 Apr 05 11:32 5111 Apr 05 08:38	30° ₹	
max. Earth dist.		16° Д 3700 27° Д 41'39	1.32611 AU	direct	-	28°) 32′50	
	5110 Jun 19 21:21		1.32011 AU	uncet	5111 Apr 10 05:00	28°π32′50 0°Υ	
asc. node	5110 Jun 20 23:29	0° © 01'34 0° ©		daga mada	5111 Apr 15 12:08	1° Υ 01'28	
	5110 Jun 20 23:11	0 50		desc. node	5111 Apr 17 06:12		27015122
avmani ·	5110 Jun 22 05 20	200542120	0012100	morning max el	5111 Apr 23 16:37	6° Y 26'41	27°15'33
superior conj	5110 Jun 22 05:30	2°543'30			5111 May 11 18:06	0° Β	
minimum elong	5110 Jun 22 04:53	2°540'08	0°12'51	morning set	5111 May 29 03:32	0° Ⅱ 14'53	
behind sun begin	5110 Jun 22 01:45	2° © 23'13			5111 May 29 00:28	0°Щ	

max. Earth dist.	5111 Jun 02 18:44	9° Ⅱ 30′27	1.33620 AU		5112 May 03 19:52	0°B	
				morning set	5112 May 11 05:12	13° 8 12'21	
superior conj	5111 Jun 06 09:12	17° Ⅲ 00'47	-0°15'13	max. Earth dist.	5112 May 15 04:37	20° 8 47'19	1.35094 AU
minimum elong	5111 Jun 06 10:00	17° Ⅱ 04'59	0°15'03		5112 May 19 19:30	Π °0	
behind sun begin	5111 Jun 06 08:06	16° Ⅱ 54'59					
behind sun end	5111 Jun 06 11:53	17° Ⅱ 14'58		superior conj	5112 May 20 05:52	0° Ⅱ 52'46	-0°44'54
asc. node	5111 Jun 07 20:32	20° Ⅲ 08′02		minimum elong	5112 May 20 08:20	1° Ⅱ 05′22	0°44'25
	5111 Jun 12 11:34	0°€		asc. node	5112 May 24 17:33	10° Ⅱ 09'09	
evening rise	5111 Jun 13 15:30	2° 5 27'31		evening rise	5112 May 27 23:39	16° Ⅱ 54′26	
	5111 Jun 29 01:31	$0^{\circ}\Omega$			5112 Jun 03 15:03	0ංම	
evening max el	5111 Jul 04 11:35	6° Ω 19'01	22°00'39	evening max el	5112 Jun 15 12:56	17° © 09'39	20°35'12
desc. node	5111 Jul 14 05:29	12° Ω 17'01		retrograde	5112 Jun 26 17:39	22° © 38'46	
retrograde	5111 Jul 17 05:05	12° Ω 37'49		evening set	5112 Jun 28 18:15	22° © 28'45	
evening set	5111 Jul 20 00:05	12° Ω 20′25		desc. node	5112 Jun 30 02:28	22°©11'37	
min. Earth dist.	5111 Jul 28 16:19	8° Ω 36′50	0.54937 AU	inferior conj	5112 Jul 08 00:16	18° © 31'40	-2°19'55
inferior conj	5111 Jul 29 06:51	8° Ω 16′25	-4°04'56	minimum elong	5112 Jul 07 17:47	18° © 40'59	2°17'38
minimum elong	5111 Jul 28 22:06	8° Ω 28'43	4°02'42	min. Earth dist.	5112 Jul 09 03:48	17° 9 52'02	0.54887 AU
morning rise	5111 Aug 06 21:43	4° Ω 26′02		morning rise	5112 Jul 16 16:36	14° © 25'16	
direct	5111 Aug 10 03:24	4° Ω 02'50		direct	5112 Jul 20 12:56	13° © 53'22	
morning max el	5111 Aug 22 02:08	9° Ω 38'16	21°36'51	morning max el	5112 Aug 02 19:34	20° © 18'11	23°17'59
asc. node	5111 Sep 03 19:45	27° Ω 05'55			5112 Aug 11 00:21	$0^{\circ}\Omega$	
	5111 Sep 05 09:59	0° m		asc. node	5112 Aug 20 16:47	16° Ω 17'07	
morning set	5111 Sep 11 15:46	12° m 24'43		morning set	5112 Aug 26 03:00	27° Ω 17′01	
-	-			-	5112 Aug 27 09:42	0° m y	
superior conj	5111 Sep 18 21:54	27° m 41'07	1°43'14				
minimum elong	5111 Sep 18 21:31	27° m 39'08	1°43'14	superior conj	5112 Sep 02 03:29	12° m 22'08	1°38'07
	5111 Sep 20 00:37	0° ⊽		minimum elong	5112 Sep 02 02:00	12° m 14'13	1°38'02
max. Earth dist.	5111 Sep 22 22:08	5° £ 55'04	1.34942 AU	max. Earth dist.	5112 Sep 04 18:49	17° m 59'21	1.33557 AU
evening rise	5111 Sep 27 05:54	14° ≏ 24'16		evening rise	5112 Sep 09 18:45	28° Mp 14'40	
	5111 Oct 05 21:40	o° m		•	5112 Sep 10 16:03	0∘ ⊽	
desc. node	5111 Oct 10 04:46	7°M03'41		desc. node	5112 Sep 26 01:47	26° ₽ 57'33	
	5111 Oct 26 15:07	0° ∡ ¹			5112 Sep 28 02:05	0° M .	
evening max el	5111 Nov 01 11:50	6° ∡ 18'27	26°45'42	evening max el	5112 Oct 14 00:12	19° M 44'42	27°20'03
retrograde	5111 Nov 14 13:37	13° ∡ ³34'54		retrograde	5112 Oct 27 12:20	27°ML03'05	
evening set	5111 Nov 21 03:53	10° ∡ 56′11		evening set	5112 Nov 03 12:11	24°M23'51	
min. Earth dist.	5111 Nov 25 04:40	6° ₹ 52'10	0.65906 AU	min. Earth dist.	5112 Nov 07 07:14	20°M54'05	0.64487 AU
inferior conj	5111 Nov 27 01:00	4° ∡ ¹41'57	-1°16'22	inferior conj	5112 Nov 09 15:28	18°M23'21	-2°19'23
minimum elong	5111 Nov 27 03:09	4° ∡ ³35'38	1°15'27	minimum elong	5112 Nov 09 19:31	18° M ₊12'29	2°17'48
asc. node	5111 Nov 30 18:59	0° ∡ ′41′23		morning rise	5112 Nov 16 04:07	12°M56'27	
	5111 Dec 01 14:55	30°RML		asc. node	5112 Nov 16 16:00	12° M 44'47	
morning rise	5111 Dec 03 03:16	29°M01'01		direct	5112 Nov 18 17:27	12° M 22'49	
direct	5111 Dec 05 23:40	28°M16'01		morning max el	5112 Nov 25 05:08	15° M ₊48'19	17°56'09
	5111 Dec 10 11:05	0° ∡ ¹		-	5112 Dec 05 08:31	0° ∡ ¹	
morning max el	5111 Dec 12 12:51	1° ∡ ¹48'35	18°20'17	morning set	5112 Dec 12 11:25	11° × 754'52	
morning set	5111 Dec 31 22:28	0° පි 21'06		desc. node	5112 Dec 23 01:02	29° х 27'23	
	5111 Dec 31 17:14	8°0			5112 Dec 23 09:03	ರ°0	
desc. node	5112 Jan 06 03:59	8° る 44'54					
				superior conj	5112 Dec 25 22:31	4° る 08'22	-0°20'06
superior conj	5112 Jan 16 08:51	24° る 53'52	-1°06'49	minimum elong	5112 Dec 25 20:08	3°₹58'46	0°19'44
minimum elong	5112 Jan 16 00:50	24° る 22'24	1°05'50	max. Earth dist.	5112 Dec 30 15:03	11° る 36'54	1.44853 AU
max. Earth dist.	5112 Jan 17 20:02	27° る 11'55	1.45321 AU	evening rise	5113 Jan 11 01:57	29° る 27'04	
	5112 Jan 19 14:57	0° ≈			5113 Jan 11 10:31	0° ≈	
evening rise	5112 Feb 01 11:30	20° ≈ 07'54		greatest brilliancy	5113 Jan 25 18:16	21° ≈ 38′26	-0.6m
	5112 Feb 07 18:29	0° ∀			5113 Jan 31 15:57	0° ∀	
greatest brilliancy	5112 Feb 12 07:09	7° ₩ 01'59	-0.8m	evening max el	5113 Feb 06 21:22	7° ∺ 32'30	20°08'03
evening max el	5112 Feb 24 17:05	23° ¥ 58'49	19°12'50	asc. node	5113 Feb 12 15:17	11° ¥ 42'18	
asc. node	5112 Feb 26 18:17	25° ¥ 51′10		retrograde	5113 Feb 14 15:13	12° ∺ 03'36	
retrograde	5112 Mar 02 17:14	27°) 57'44		evening set	5113 Feb 18 09:56	10° ¥ 40'31	
evening set	5112 Mar 06 03:39	26°) 48′56		inferior conj	5113 Feb 23 19:10	4°) 37′07	3°03'48
inferior conj	5112 Mar 11 16:04	20° ¥ 59′22	3°24'27	minimum elong	5113 Feb 23 17:00	4°) 44′26	3°03'22
minimum elong	5112 Mar 11 14:38	21°) €03'57	3°24'17	min. Earth dist.	5113 Feb 24 15:18	3° ¥ 29'11	0.67296 AU
min. Earth dist.	5112 Mar 13 02:23	19°) €09'03	0.66262 AU		5113 Feb 27 09:47	30° R ≈	
morning rise	5112 Mar 17 01:17	14°) (44′40		morning rise	5113 Feb 28 23:51	28° ≈ 22'41	
direct	5112 Mar 23 09:24	11° ¥ 56'44		direct	5113 Mar 06 19:22	25° ≈ 46'44	
desc. node	5112 Apr 03 03:13	17° ¥ 36′28			5113 Mar 15 12:39	0° ∀	
morning max el	5112 Apr 05 02:32	19°) 30′44	26°13'52	morning max el	5113 Mar 18 11:16	2° ¥ 45'15	24°53'32
	5112 Apr 14 01:03	$0^{\circ}\Upsilon$		desc. node	5113 Mar 21 00:15	5° ¥ 27'54	

	5113 Apr 08 04:58	$0^{\circ}\mathbf{Y}$		desc. node	5114 Mar 07 21:17	24°≈14'01	
morning set	5113 Apr 23 13:25	25° Ƴ 15'46			5114 Mar 12 06:24	0°) €	
C	5113 Apr 26 04:33	$0^{\circ}S$			5114 Apr 01 05:10	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	5113 Apr 27 04:13	1° 8 48'31	1.36994 AU	morning set	5114 Apr 04 22:19	6° Ƴ 10'04	
	-			max. Earth dist.	5114 Apr 08 23:50	13° Ƴ 08'35	1.39155 AU
superior conj	5113 May 03 16:30	14° 8 11'32	-1°14'20				
minimum elong	5113 May 03 20:35	14° 8 31'33	1°13'42	superior conj	5114 Apr 16 13:18	26° Ƴ 47'44	-1°40'55
asc. node	5113 May 11 14:35	0° Ⅱ 00'48		minimum elong	5114 Apr 16 18:18	27° Ƴ 11'04	1°40'22
	5113 May 11 14:25	Π $^{\circ}0$			5114 Apr 18 06:18	8°	
evening rise	5113 May 12 02:42	1° Ⅱ 01'37		evening rise	5114 Apr 25 21:53	14° 8 41'57	
evening max el	5113 May 29 02:51	28° Ⅱ 41'34	19°27'51	asc. node	5114 Apr 28 11:37	19° 8 38'38	
	5113 May 30 13:31	0 \circ \odot			5114 May 04 04:27	Π $^{\circ}0$	
retrograde	5113 Jun 07 13:46	3° © 18'39		evening max el	5114 May 12 03:32	10° Ⅱ 53'50	18°40'46
evening set	5113 Jun 09 12:27	3° © 07'47		retrograde	5114 May 20 03:33	14° Ⅱ 50'13	
desc. node	5113 Jun 16 23:29	29° Ⅱ 47'04		evening set	5114 May 22 07:40	14° Ⅱ 33'50	
	5113 Jun 16 15:11	30°RⅡ		inferior conj	5114 May 30 03:08	10° Ⅱ 09'54	1°20'26
inferior conj	5113 Jun 18 03:50	29° Ⅱ 01'56		minimum elong	5114 May 30 05:55	10° Ⅱ 04'41	1°19'31
minimum elong	5113 Jun 18 02:54	29° Ⅱ 03′26	0°20'46	min. Earth dist.	5114 Jun 02 10:31	7° Ⅱ 41'47	0.57457 AU
min. Earth dist.	5113 Jun 20 17:23	27° Ⅱ 23'18	0.55792 AU	desc. node	5114 Jun 03 20:31	6° Ⅱ 43'22	
morning rise	5113 Jun 26 14:39	24° Ⅱ 23'49		morning rise	5114 Jun 07 00:53	4° ∏ 55'57	
direct	5113 Jul 01 07:39	23° Ⅱ 33'48		direct	5114 Jun 12 16:11	3° Ⅱ 37'16	
	5113 Jul 14 16:19	0°©		morning max el	5114 Jun 27 01:04	11° Ⅱ 10′37	26°29'26
morning max el	5113 Jul 15 09:02	0°539'00	25°00'51		5114 Jul 11 13:59	0.20	
1	5113 Aug 04 14:33	0° U		asc. node	5114 Jul 25 10:53	25°541'36	
asc. node	5113 Aug 07 13:50	5° £ 51'11		morning set	5114 Jul 26 01:19	26° © 57'29	
morning set	5113 Aug 10 14:43	12° Ω 09'30			5114 Jul 27 11:35	0 ° Ω	
avnariar aani	5112 Avg 17 12:01	279 (12112	1027122	avmariar aani	5114 Aug 02 00:25	120 000102	1°11'45
superior conj	5113 Aug 17 13:01	27° Ω 13'13	1°27'23	superior conj	5114 Aug 02 00:35	12° Ω 08'03 11° Ω 55'19	1°11'45 1°11'23
minimum elong	5113 Aug 17 10:54	27° Ω 01'35	1-2/08	minimum elong max. Earth dist.	5114 Aug 01 22:16	$12^{\circ} \Omega 58'01$	1.32058 AU
max. Earth dist.	5113 Aug 18 19:34	0° Mp 0° Mp 22′01	1.32596 AU		5114 Aug 02 09:38	27° Ω 06'28	1.32038 AU
evening rise	5113 Aug 18 23:37	12° Mp 31'34	1.32390 AU	evening rise	5114 Aug 08 22:13 5114 Aug 10 07:35	0°m)	
evening rise	5113 Aug 24 17:09 5113 Sep 02 19:59	0° ⊽			5114 Aug 10 07.33 5114 Aug 27 06:45	0∘ ত بالا	
desc. node	5113 Sep 12 22:47	0 == 16° £ 19'40		desc. node	5114 Aug 30 19:49	0 == 4° £ 57'03	
dese. Hode	5113 Sep 12 22:47 5113 Sep 23 17:12	0°M		evening max el	5114 Sep 08 15:24	15° ⊆ 03'10	26°58'23
evening max el	5113 Sep 26 10:20	2°M44'06	27°25'42	retrograde	5114 Sep 22 12:34	22° £ 13'53	20 30 23
retrograde	5113 Oct 10 04:15	9°M58'59	27 23 12	evening set	5114 Sep 29 12:43	20° £ 05'14	
evening set	5113 Oct 17 08:29	7°ML29'07		min. Earth dist.	5114 Oct 03 05:37	17° £ 25'54	0.60774 AU
min. Earth dist.	5113 Oct 20 23:52	4°M29'29	0.62754 AU	inferior conj	5114 Oct 06 09:51	14° £ 45'16	
inferior conj	5113 Oct 23 19:30	1° M .47'17		minimum elong	5114 Oct 06 16:07	14° ≙ 32'00	
minimum elong	5113 Oct 24 01:13	1°M.33'33		morning rise	5114 Oct 13 21:29	9° ≏ 56'52	
8	5113 Oct 25 17:23	30° Ŗ Ω		direct	5114 Oct 16 05:12	9° £ 35'39	
morning rise	5113 Oct 30 19:36	26° ♀ 37'51		asc. node	5114 Oct 21 10:07	11° ≏ 27'34	
direct	5113 Nov 02 04:35	26° ♀ 11'57		morning max el	5114 Oct 23 11:25	13° ≏ 11'52	18°02'00
asc. node	5113 Nov 03 13:03	26° ≙ 20'35		-	5114 Nov 03 19:37	0°M	
morning max el	5113 Nov 08 21:43	29° ≙ 38'39	17°49'41	morning set	5114 Nov 08 05:15	8°M04'59	
	5113 Nov 09 06:10	0°M₊					
morning set	5113 Nov 24 23:48	24°M35'51		superior conj	5114 Nov 18 04:22	26°M16'09	0°58'49
	5113 Nov 28 01:15	0° ∡		minimum elong	5114 Nov 18 08:18	26°M33'32	0°58'19
					5114 Nov 20 07:22	0° ∡ ¹	
superior conj	5113 Dec 06 12:22	14° ∡ ³34'11	0°23'54	max. Earth dist.	5114 Nov 25 19:42	9° х 23′35	1.42004 AU
minimum elong	5113 Dec 06 14:38	14° ∡ ⁴43'45	0°23'34	desc. node	5114 Nov 26 19:04	11° ≯ 00'35	
desc. node	5113 Dec 09 22:03	20° ҂ 13'41		evening rise	5114 Dec 01 10:56	18° ≯ 35'09	
max. Earth dist.	5113 Dec 13 07:46	25° ҂ 46'32	1.43701 AU		5114 Dec 08 18:41	0°₹	
	5113 Dec 15 23:04	0° ろ			5114 Dec 30 07:39	0° ≈	
evening rise	5113 Dec 21 12:35	8° る 43'43		evening max el	5115 Jan 03 13:51	4° ≈ 43'27	22°32'52
	5114 Jan 04 16:26	0°≈	2101	retrograde	5115 Jan 13 09:18	10°≈33'22	
evening max el	5114 Jan 20 20:12	21°≈07'22	21°16'07	asc. node	5115 Jan 17 09:22	9°≈09'43	
retrograde	5114 Jan 29 13:08	26°≈16'51		evening set	5115 Jan 18 01:08	8°≈39'22	105420
asc. node	5114 Jan 30 12:19	26°≈11'50		inferior conj	5115 Jan 23 09:46	2°≈16'57	1°54'39
evening set	5114 Feb 02 17:40	24°≈38'34	2022122	minimum elong	5115 Jan 23 07:34	2°≈24'35	1°53'54
inferior conj	5114 Feb 08 01:45	18°≈24'01	2°33'22	min. Earth dist.	5115 Jan 23 05:21	2°≈32'13	0.68112 AU
minimum elong	5114 Feb 07 23:20	18°≈32'23	2°32'42	morning rise	5115 Jan 25 01:56	30°Rる 26°る07'38	
min. Earth dist. morning rise	5114 Feb 08 09:02 5114 Feb 13 04:50	17°≈58'49 12°≈11'26	0.67903 AU	morning rise direct	5115 Jan 28 13:53 5115 Feb 02 04:19	26°る0/'38 24°る13'24	
direct	5114 Feb 13 04:50 5114 Feb 18 09:56	9°≈54'42		morning max el	5115 Feb 02 04:19 5115 Feb 11 08:28	24°613'24 29° る 35'39	21°57'20
morning max el	5114 Feb 18 09:36 5114 Feb 28 20:12	9°≈3442 16°≈06'35	23°24'55	morning max er	5115 Feb 11 08:28 5115 Feb 11 18:03	29° ⊘ 33°39	21 3/20
morning max ci	J1171 CU 20 20.12	10 ~0033	43 4 1 33		3113100 11 10.03	v ~	

27°**₹**06'25 19°32'14

morning max el

5117 Jan 07 05:55

5116 Feb 07 04:47

0°≈

	5117 Jan 09 21:04	0°₹		morning max el	5117 Dec 21 15:43	11° ∡ 05'26	18°41'46
greatest brilliancy	5117 Jan 20 07:46	14° る 24'42	-0.7m	morning man er	5118 Jan 04 08:06	0°ਰ	10 11 10
desc. node	5117 Jan 26 12:21	23° ප් 46'01	377 , 222	morning set	5118 Jan 11 18:36	11° る 41'33	
	5117 Jan 30 13:51	0° ≈		desc. node	5118 Jan 13 09:23	14° る 14'23	
morning set	5117 Feb 01 03:22	2° ≈ 24'41			5118 Jan 23 10:08	0° ≈	
max. Earth dist.	5117 Feb 13 15:54	21° ≈ 58′08	1.44571 AU	max. Earth dist.	5118 Jan 27 09:40	6°≈14'32	1.45268 AU
superior conj	5117 Feb 17 19:10	28° ≈ 33'29	-1°59'43	superior conj	5118 Jan 28 01:16	7° ≈ 15'45	-1°30'43
minimum elong	5117 Feb 17 12:56	28° ≈ 08′28	1°59'22	minimum elong	5118 Jan 27 15:51	6° ≈ 38'48	1°29'45
	5117 Feb 18 16:43	0° ∀			5118 Feb 11 10:03	0° ∀	
evening rise	5117 Mar 03 17:21	21° ∺ 26′12		evening rise	5118 Feb 12 14:01	1° ∺ 51'56	
	5117 Mar 08 19:41	0 ° $\mathbf{\Upsilon}$		greatest brilliancy	5118 Feb 20 04:31	14°) €02'58	-0.9m
asc. node	5117 Mar 19 02:44	16° Ƴ 03'45			5118 Mar 02 21:47	0 ° $\mathbf{\Upsilon}$	
evening max el	5117 Mar 22 12:29	20° Y 04'46	18°18'21	asc. node	5118 Mar 05 23:44	3° Y 33′50	
retrograde	5117 Mar 28 22:40	23° Y 31′29		evening max el	5118 Mar 05 23:29	3° Y 33'11	18°48'04
evening set	5117 Mar 31 22:28	22° Y 43′18		retrograde	5118 Mar 12 16:12	7° Y 17'07	
inferior conj	5117 Apr 06 21:18	17° Y 20′02	3°31'13	evening set	5118 Mar 15 22:35	6° Y 15'53	
minimum elong	5117 Apr 06 21:59	17° Y 18′06	3°31'10	inferior conj	5118 Mar 21 13:56	0° Υ 35'12	
min. Earth dist.	5117 Apr 09 07:58	14° Y 34'44	0.63793 AU	minimum elong	5118 Mar 21 13:09	0° Y 37'36	3°30'59
morning rise	5117 Apr 12 20:33	11° Y 10′39			5118 Mar 22 01:17	30° ₹	
direct	5117 Apr 19 16:42	8° Y 26'46		min. Earth dist.	5118 Mar 23 08:54	28°) €22'34	0.65479 AU
desc. node	5117 Apr 24 11:35	9° Y 35'36		morning rise	5118 Mar 27 03:16	24° H 21'38	
morning max el	5117 May 03 11:33	16° Y 25′22	27°38'44	direct	5118 Apr 02 17:11	21°) (31'47	
	5117 May 14 16:29	0° 8		desc. node	5118 Apr 11 08:36	25°) 13'43	
	5117 Jun 02 04:41	0°II		morning max el	5118 Apr 15 21:31	29°) 18′07	26°52'17
morning set	5117 Jun 07 07:41	9° ∏ 50′22			5118 Apr 16 13:52	0° Υ	
max. Earth dist.	5117 Jun 12 08:19	20° Ⅱ 07′08	1.32980 AU		5118 May 08 13:26	0° 8	
	5117 1 15 05 02	260 T 12010	0001120	morning set	5118 May 21 17:02	23° 8 11'57	
superior conj	5117 Jun 15 05:03	26° I I12'10	0°01'20	F 4 F	5118 May 25 04:39	0°II	1 2 41 00 4 7 7
minimum elong	5117 Jun 15 04:59	26° Ⅱ 11'48	0°01'18	max. Earth dist.	5118 May 26 01:06	1°Щ42'13	1.34190 AU
behind sun begin	5117 Jun 14 23:39	25° Ⅱ 43'11			5110 M 20 06 02	100 T 10124	0027141
behind sun end	5117 Jun 15 10:20	26° Ⅱ 40'27 25° Ⅱ 55'53		superior conj	5118 May 30 06:03	10° Ⅱ 19'24 10° Ⅱ 27'07	
asc. node	5117 Jun 15 02:01	25° Щ 33°33		minimum elong asc. node	5118 May 30 07:32	10° II 27'07 16° II 00'25	0-27-24
evening rise	5117 Jun 16 23:24 5117 Jun 22 06:38	11° 5 23'55		evening rise	5118 Jun 01 23:02 5118 Jun 06 16:40	25° I I59'18	
evening rise	5117 Jul 22 00:38 5117 Jul 01 18:53	0°Ω		evening rise	5118 Jun 08 15:15	23 π 3918	
evening max el	5117 Jul 14 16:46	17° Ω 41'10	22°55'41	evening max el	5118 Jun 26 11:36	28° © 12'47	21°22'25
desc. node	5117 Jul 21 10:52	22° Ω 41'14	22 33 41	evening max er	5118 Jun 28 11:06	28 3 1247	21 22 23
retrograde	5117 Jul 28 00:34	24° Ω 19'57		desc. node	5118 Jul 08 07:53	4° Ω 11'36	
evening set	5117 Jul 31 14:04	23°Ω52'13		retrograde	5118 Jul 08 14:31	4°Ω11'47	
min. Earth dist.	5117 Aug 08 01:23		0.55395 AU	evening set	5118 Jul 10 23:41	3° Ω 58'44	
inferior conj	5117 Aug 09 14:06	19° Ω 39'14		inferior conj	5118 Jul 20 08:10	29° © 59'32	-3°24'22
minimum elong	5117 Aug 09 07:05	19° Ω 49'22		minimum elong	5118 Jul 19 23:36	0° Ω 11'31	
morning rise	5117 Aug 18 02:15	15°Ω48'23		mmmum viong	5118 Jul 20 07:50	30°Rூ	3 21 17
direct	5117 Aug 21 02:12	15° Ω 27'17		min. Earth dist.	5118 Jul 20 11:30	•	0.54798 AU
morning max el	5117 Sep 01 02:37	20° £ 34'55	20°44'26	morning rise	5118 Jul 29 00:21	26°905'16	
	5117 Sep 08 18:18	0° m)		direct	5118 Aug 01 11:42	25°539'13	
asc. node	5117 Sep 11 01:15	3° m 39'07			5118 Aug 12 04:58	$0^{\circ}\Omega$	
morning set	5117 Sep 20 07:25	21° m) 15'26		morning max el	5118 Aug 14 00:58	1° Ω 35'17	22°18'43
	5117 Sep 24 12:29	0∘ ⊽		asc. node	5118 Aug 28 22:16	22° Ω 33'18	
	•				5118 Sep 01 18:40	0° m)	
superior conj	5117 Sep 27 18:40	6° £ 43'48	1°43'16	morning set	5118 Sep 04 17:39	6° Mp 05'13	
minimum elong	5117 Sep 27 19:06	6° £ 45'58	1°43'15				
max. Earth dist.	5117 Oct 02 15:07	16° ≏ 26'33	1.35927 AU	superior conj	5118 Sep 11 20:53	21° Mp 15'09	1°41'49
evening rise	5117 Oct 06 15:19	24° £ 05'00		minimum elong	5118 Sep 11 19:59	21° m 10'25	1°41'46
	5117 Oct 09 21:18	0° M ₊		max. Earth dist.	5118 Sep 15 06:53	28° Mp 23'16	1.34309 AU
desc. node	5117 Oct 17 10:10	12°M47'41			5118 Sep 16 01:47	0∘ ⊽	
	5117 Oct 28 22:38	0° ∡ ¹		evening rise	5118 Sep 19 21:03	7° ≏ 34'54	
evening max el	5117 Nov 11 05:29	15° ∡ 50′03	26°15'27		5118 Oct 02 11:16	0° M	
retrograde	5117 Nov 23 22:38	23° ∡ 00′27		desc. node	5118 Oct 04 07:12	2°M55'10	
evening set	5117 Nov 30 05:58	20° ∡ ¹25'58		evening max el	5118 Oct 24 18:13	29°M25'17	27°03'19
min. Earth dist.	5117 Dec 04 10:38	16° ∡ 01′28	0.66575 AU		5118 Oct 25 08:57	0° ∡ ¹	
inferior conj	5117 Dec 06 00:08	14° ∡ ¹06′23	-0°41'13	retrograde	5118 Nov 07 00:39	6° х 42′43	
minimum elong	5117 Dec 06 01:15	14° ∡ 02'57	0°40'43	evening set	5118 Nov 13 19:38	4° ≯ 02'38	
asc. node	5117 Dec 08 00:27	11° ∡ 742'44		min. Earth dist.	5118 Nov 17 17:51	0° ≯ 13'39	0.65353 AU
morning rise	5117 Dec 11 21:07	8° ≯ 18'32			5118 Nov 17 22:46	30°RM₊	
direct	5117 Dec 14 22:46	7° ∡ ¹25′01		inferior conj	5118 Nov 19 19:15	27°M53'55	-1°42'52

minimum elong	5118 Nov 19 22:12	27°M45'34	1°41'39	morning rise	5119 Nov 09 23:07	6° ™ 08'43	
asc. node	5118 Nov 24 21:28	22°M59'45		asc. node	5119 Nov 11 18:32	5°M41'00	
morning rise	5118 Nov 26 01:47	22°M18'41		direct	5119 Nov 12 10:13	5°M38'52	
direct	5118 Nov 28 18:59	21°M38'53		morning max el	5119 Nov 18 23:22	9° ™ 03'44	17°51'13
morning max el	5118 Dec 05 06:30	25°M06'57	18°07'55		5119 Dec 02 23:46	0° ∡ ¹	
	5118 Dec 09 08:43	0° ∡ ¹		morning set	5119 Dec 05 14:58	4° ⋌ ³31'50	
morning set	5118 Dec 23 15:16	22° ҂ ¹27'31					
	5118 Dec 28 06:02	0°ප		superior conj	5119 Dec 18 05:28	25° ∡ ¹45'30	-0°00'35
desc. node	5118 Dec 31 06:27	4° る 52'56		minimum elong	5119 Dec 18 05:24	25° ∡ ¹45'13	0°00'34
				behind sun begin	5119 Dec 17 19:37	25° 渘 105′11	
superior conj	5119 Jan 07 06:23	16° පි 02'49	-0°47'17	behind sun end	5119 Dec 18 15:11	26° 渘 ¹25′10	
minimum elong	5119 Jan 07 00:32	15° る 39'43	0°46'29	desc. node	5119 Dec 18 03:29	25° 渘 ³37′20	
max. Earth dist.	5119 Jan 10 05:28	20°る42'54	1.45214 AU		5119 Dec 20 20:08	8°0	
	5119 Jan 16 03:55	0° ≈		max. Earth dist.	5119 Dec 23 23:37	5° る 02'32	1.44434 AU
evening rise	5119 Jan 23 13:17	11° ≈ 29'21		evening rise	5120 Jan 03 00:06	20° る 42'05	
	5119 Feb 04 14:02	0° ℋ			5120 Jan 09 02:28	0° ≈	
greatest brilliancy	5119 Feb 05 07:20	1°) €05'05	-0.7m		5120 Jan 30 17:30	0° ∀	
evening max el	5119 Feb 17 06:35	17° ₩ 05'31	19°34'30	evening max el	5120 Jan 31 08:27	0° ∺ 39'06	20°35'38
asc. node	5119 Feb 20 20:45	20°) €05'30		asc. node	5120 Feb 07 17:47	5°) 23'34	
retrograde	5119 Feb 24 13:27	21° ℋ 17'16		retrograde	5120 Feb 08 11:46	5°) 26'35	
evening set	5119 Feb 28 03:16	20°) 02'21		evening set	5120 Feb 12 10:24	3° ¥ 57'12	
inferior conj	5119 Mar 05 14:01	14°) €06'19	3°16'59	Č	5120 Feb 16 03:44	30°R≈	
minimum elong	5119 Mar 05 12:13	14° ¥ 12'15	3°16'44	inferior conj	5120 Feb 17 18:53	27°≈48'29	2°51'59
min. Earth dist.	5119 Mar 06 18:02	12°) €34'03	0.66752 AU	minimum elong	5120 Feb 17 16:34	27°≈56'28	2°51'26
morning rise	5119 Mar 10 20:55	7° ₩ 51'30		min. Earth dist.	5120 Feb 18 09:23	26°≈58'52	0.67600 AU
direct	5119 Mar 16 23:52	5°) €07'53		morning rise	5120 Feb 22 22:32	21° ≈ 34'24	
desc. node	5119 Mar 29 05:38	12°) 24'33		direct	5120 Feb 28 11:54	19°≈06'02	
morning max el	5119 Mar 29 07:11	12°) (28'27	25°41'28	morning max el	5120 Mar 10 15:52	25°≈46'30	24°16'14
morning max or	5119 Apr 12 09:35	0°Υ	23 11 20	morning max or	5120 Mar 14 12:36	0° ∀	21 1011
	5119 May 01 06:23	0°8		desc. node	5120 Mar 15 02:41	0°) (41′26	
morning set	5119 May 04 00:25	5° 8 48'12		dese. Hode	5120 Apr 04 22:37	0°Υ	
max. Earth dist.	5119 May 08 06:36	12° 8 51'07	1.35857 AU	morning set	5120 Apr 15 11:00	17° Y 24′00	
man zam ust.	5119 may 00 00.50	12 00107	1.50007110	max. Earth dist.	5120 Apr 19 03:20	23°Y54'37	1.37892 AU
superior conj	5119 May 13 22:51	23° 8 58'02	-0°57'32	man. Bartir digt.	5120 Apr 22 11:15	0°8	1.5,0,2110
minimum elong	5119 May 14 02:02	24° 8 14'03			312071pt 22 11.13	٥ ٠	
minimum ciong	5119 May 16 22:16	0°II	0 2020	superior conj	5120 Apr 26 04:04	6° 8 59'14	-1°26'10
asc. node	•			superior conj	3120 Apr 20 04.04	0 037 14	1 20 10
	5119 May 19 20:04	5° ∏ 58'01		minimum elong	5120 Apr. 26, 08:41	7° ∺ 21'24	1°25'32
	5119 May 19 20:04 5119 May 21 22:59	5°Ⅲ58'01		minimum elong	5120 Apr 26 08:41	7° 8 21'24	1°25'32
evening rise	5119 May 21 22:59	10° Ⅱ 18'49		evening rise	5120 May 04 23:03	24° 8 14'58	1°25'32
evening rise	5119 May 21 22:59 5119 Jun 01 12:41	10° I 18'49 0° ©	20°04'07	Č	5120 May 04 23:03 5120 May 05 17:06	24° 8 14'58 25° 8 43'58	1°25'32
evening rise evening max el	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09	10° I I18'49 0°ഇ 9° © 19'28	20°04'07	evening rise asc. node	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34	24°814'58 25°843'58 0°II	
evening rise evening max el retrograde	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05	10° I 18'49 0°© 9°©19'28 14°©26'26	20°04'07	evening rise asc. node evening max el	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56	24°814'58 25°843'58 0°II 21°II08'36	1°25'32 19°05'20
evening rise evening max el retrograde evening set	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16	10°¶18'49 0°© 9°©19'28 14°©26'26 14°©16'47	20°04'07	evening rise asc. node evening max el retrograde	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00	24°814'58 25°843'58 0°II 21°II08'36 25°II26'39	
evening rise evening max el retrograde evening set desc. node	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52	10° II 18'49 0° S 9° S 19'28 14° S 26'26 14° S 16'47 12° S 59'48		evening rise asc. node evening max el retrograde evening set	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21	24°814'58 25°843'58 0°II 21°II08'36 25°II26'39 25°II14'03	19°05'20
evening rise evening max el retrograde evening set desc. node inferior conj	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13	10°¶18'49 0°© 9°©19'28 14°©26'26 14°©16'47 12°©59'48 10°©17'12	-1°29'06	evening rise asc. node evening max el retrograde evening set inferior conj	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28	24° 8 14'58 25° 8 43'58 0° П 21° П 08'36 25° П 26'39 25° П 14'03 21° П 01'27	19°05'20 0°25'16
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03	10°¶18'49 0°9 9°919'28 14°926'26 14°916'47 12°959'48 10°917'12 10°923'27	-1°29'06 1°27'34	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29	24°႘14'58 25°႘43'58 0°Щ 21°Щ08'36 25°Щ26'39 25°Щ14'03 21°Щ01'27 20°Щ59'41	19°05'20
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37	10°¶18'49 0°© 9°©19'28 14°©26'26 14°©16'47 12°©59'48 10°©17'12 10°©23'27 9°©12'13	-1°29'06	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53	24° 8 14'58 25° 8 43'58 0° П 21° П 08'36 25° П 26'39 25° П 14'03 21° П 01'27 20° П 59'41 20° П 02'06	19°05'20 0°25'16 0°24'54
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14	10°II 18'49 0°II 18'49 0°II 19'28 14°II 26'26' 14°II 16'47 12°II 19'II 12' 10°II 12' 10°II 13' 5°II 13' 5°II 18'49 10'II 18'4	-1°29'06 1°27'34	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50	24° 8 14'58 25° 8 43'58 0° П 21° П 08'36 25° П 26'39 25° П 14'03 21° П 01'27 20° П 59'41 20° П 02'06 18° П 59'36	19°05'20 0°25'16
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27	10°II 18'49 0°II 18'49 9°II 19'28 14°II 26'26 14°II 16'47 12°II 59'148 10°II 112 10°II 113 5°II 11	-1°29'06 1°27'34 0.55159 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23	24° 8 14'58 25° 8 43'58 0° П 21° П 08'36 25° П 26'39 25° П 14'03 21° П 01'27 20° П 59'41 20° П 02'06 18° П 59'36 16° П 07'20	19°05'20 0°25'16 0°24'54
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03	10°II 18'49 0°II 18'49 9°II 19'28 14°II 26'26 14°II 16'47 12°II 16'47 12°II 17'12 10°II 17'12 10°II 13 5°II 13	-1°29'06 1°27'34	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08	19°05'20 0°25'16 0°24'54 0.56420 AU
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50	10°II 18'49 0°I 9°I 19'28 14°I 26'26 14°I 16'47 12°I 59'48 10°I 17'12 10°I 13'27 9°I 12'13 5°I 58'42 5°I 20'43 12°I 04'01 0°N	-1°29'06 1°27'34 0.55159 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01	24° 8 14'58 25° 8 43'58 0° П 21° П08'36 25° П26'39 25° П14'03 21° П01'27 20° П59'41 20° П02'06 18° П59'36 16° П07'20 15° П06'08 22° П25'47	19°05'20 0°25'16 0°24'54 0.56420 AU
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20	10°I 18'49 0°S 9°S 19'28 14°S 26'26 14°S 16'47 12°S 59'48 10°S 17'12 10°S 23'27 9°S 12'13 5°S 58'42 5°S 20'43 12°S 04'01 0°A 11°A 54'55	-1°29'06 1°27'34 0.55159 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 05'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 06'08	19°05'20 0°25'16 0°24'54 0.56420 AU
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18	10° II 18'49 0° 59 9° 59 19'28 14° 5926'26 14° 59 16'47 12° 59'48 10° 59 17'12 10° 523'27 9° 59 12'13 5° 58'42 5° 520'43 12° 504'01 0° A 11° A54'55 20° A58'08	-1°29'06 1°27'34 0.55159 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35	24° 8 14'58 25° 8 43'58 0° Π 21° Π08'36 25° Π26'39 25° Π14'03 21° Π01'27 20° Π59'41 20° Π02'06 18° Π59'36 16° Π07'20 15° Π06'08 22° Π25'47 0° Ω 0° Ω	19°05'20 0°25'16 0°24'54 0.56420 AU
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20	10°I 18'49 0°S 9°S 19'28 14°S 26'26 14°S 16'47 12°S 59'48 10°S 17'12 10°S 23'27 9°S 12'13 5°S 58'42 5°S 20'43 12°S 04'01 0°A 11°A 54'55	-1°29'06 1°27'34 0.55159 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24	24° 814'58 25° 843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 0°	19°05'20 0°25'16 0°24'54 0.56420 AU
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58	10° II 18'49 0° 59 9° 59 19'28 14° 5926'26 14° 59 16'47 12° 55 59'48 10° 59 17'12 10° 523'27 9° 59 12'13 5° 558'42 5° 520'43 12° 504'01 0° A 11° A 54'55 20° A 58'08 0° ID	-1°29'06 1°27'34 0.55159 AU 24°02'30	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35	24° 8 14'58 25° 8 43'58 0° Π 21° Π08'36 25° Π26'39 25° Π14'03 21° Π01'27 20° Π59'41 20° Π02'06 18° Π59'36 16° Π07'20 15° Π06'08 22° Π25'47 0° Ω 0° Ω	19°05'20 0°25'16 0°24'54 0.56420 AU
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58	10° II 18'49 0° 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° R 11° R 54'55 20° R 58'08 0° M	-1°29'06 1°27'34 0.55159 AU 24°02'30	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 06'08 1° II 06'08 1° II 06'08 1° II 06'08	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58 5119 Aug 27 04:26 5119 Aug 27 02:37	10° II 18'49 0° 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° R 11° R 54'55 20° R 58'08 0° M 6° M 01'13 5° M 51'26	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 10 15:05	24° 814'58 25° 843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 06'08 20° II 06'08	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58 5119 Aug 27 04:26 5119 Aug 27 02:37 5119 Aug 29 07:14	10° II 18'49 0° 99 9° 90 19'28 14° 90 26'26 14° 90 16'47 12° 90 59'48 10° 90 17'12 10° 90 23'27 9° 90 12'13 5° 90 58'42 5° 90 20'43 12° 90 4'01 0° A 11° A 54'55 20° A 58'08 0° ID 6° ID 6° ID 11'3 5° ID 5° ID 11'3 5° ID 11'3	-1°29'06 1°27'34 0.55159 AU 24°02'30	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 15:05 5120 Aug 10 12:50	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 08'08 22° II 25'47 0° II 08'08'03	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58 5119 Aug 27 04:26 5119 Aug 27 02:37 5119 Aug 29 07:14 5119 Sep 03 14:20	10° II 18'49 0° 99 9° 90 19'28 14° 90 26'26 14° 90 16'47 12° 90 59'48 10° 90 17'12 10° 90 23'27 9° 90 12'13 5° 90 58'42 5° 90 20'43 12° 90 4'01 0° A 11° A 54'55 20° A 58'08 0° ID 6° ID 01'13 5° ID 51'26 10° ID 37'13	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 17 21:23 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 10 15:05 5120 Aug 10 12:50 5120 Aug 11 14:25	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 05'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 06'08	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 27 02:37 5119 Aug 27 02:37 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02	10° II 18'49 0° 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° R 11° R 54'55 20° R 58'08 0° M 6° M 01'13 5° M 51'26 10° M 34'54 21° M 37'13 0° •	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 10 15:05 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 14 19:14	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 05'36 16° II 07'20 15° II 06'08 22° II 25'47 0° 00 01 1° 036'21 5° 049'03 20° 054'41 20° 042'16 23° 02'49 0° III	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58 5119 Aug 27 04:26 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 21 04:12	10° II 18'49 0° 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° N 11° N 54'55 20° N 58'08 0° M 6° M 01'13 5° M 51'26 10° M 34'54 21° M 37'13 0° Ω 22° Ω 36'42	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 17 21:23 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 14 19:14 5120 Aug 17 15:53	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 05'36 16° II 07'20 15° II 06'08 22° II 25'47 0° © 0° R 1° R 36'21 5° R 49'03 20° R 54'41 20° R 42'16 23° R 02'49 0° III 6° III 02'35	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01
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	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 27 04:26 5119 Aug 27 04:26 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 26 08:14	10° II 18'49 0° 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° N 11° N54'55 20° N58'08 0° M 6° M01'13 5° M51'26 10° M34'54 21° M37'13 0° 9 22° 936'42 0° IL	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03 1.33095 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 12 14:50 5120 Jun 12 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 11 15:05 5120 Aug 11 15:05 5120 Aug 11 15:53 5120 Aug 30 10:33	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 08'03 20° II 25'47 20° II	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01
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 evening max el	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 20 05:18 5119 Aug 27 04:26 5119 Aug 27 04:26 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 21 04:12 5119 Sep 26 08:14 5119 Oct 07 05:41	10° II 18'49 0° 90 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° A 11° A54'55 20° A58'08 0° M 6° M01'13 5° M51'26 10° M34'54 21° M37'13 0° 92 22° 936'42 0° M	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03 1.33095 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 13 23:05 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 17 15:53 5120 Aug 30 10:33 5120 Sep 07 01:12	24° 814'58 25° 843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° © 0° II 20° II 25'47 20° II 25'47 0° © 0° II 25'47 0° II 25'	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01 1.32307 AU
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 evening max el retrograde	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58 5119 Aug 27 04:26 5119 Aug 27 02:37 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 21 04:12 5119 Sep 26 08:14 5119 Oct 07 05:41 5119 Oct 20 20:36	10° II 18'49 0° 90 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° A 11° A54'55 20° A58'08 0° M 6° M01'13 5° M51'26 10° M34'54 21° M37'13 0° 92 22° 936'42 0° M 12° M40'37 19° M58'22	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03 1.33095 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 22 23:58 5120 Jul 07 06:01 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 17 15:53 5120 Aug 17 15:53 5120 Aug 30 10:33 5120 Sep 07 01:12 5120 Sep 18 13:55	24°814'58 25°843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 06'08 20° II 06	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01 1.32307 AU
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 evening max el retrograde evening set	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 09 06:50 5119 Aug 20 05:18 5119 Aug 20 05:18 5119 Aug 27 04:26 5119 Aug 27 02:37 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 21 04:12 5119 Sep 26 08:14 5119 Oct 07 05:41 5119 Oct 20 20:36 5119 Oct 27 23:17	10° II 18'49 0° 90 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° A 11° A54'55 20° A58'08 0° ID 6° ID 01'13 5° ID 51'26 10° ID 34'54 21° ID 37'13 0° P 22° P 36'42 0° IL 12° IL 40'37 19° IL 58'22 17° IL 21'20	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03 1.33095 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 17 21:23 5120 Jul 17 20:01 5120 Jul 13 23:05 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 17 15:53 5120 Aug 17 15:53 5120 Aug 17 15:53 5120 Sep 07 01:12 5120 Sep 18 13:55 5120 Sep 24 09:23	24° 814'58 25° 843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 0° II 08'03 20° A 54'41 20° A 42'16 23° A 02'49 0° II 0° II 08'03 0° II 08' II 08'03' 0° II 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03'	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01 1.32307 AU
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 evening max el retrograde evening set min. Earth dist.	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 15 19:20 5119 Aug 20 05:18 5119 Aug 24 09:58 5119 Aug 27 04:26 5119 Aug 27 02:37 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 21 04:12 5119 Sep 26 08:14 5119 Oct 07 05:41 5119 Oct 27 23:17 5119 Oct 31 16:14	10° II 18'49 0° 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° A 11° A54'55 20° A58'08 0° M 6° M01'13 5° M51'26 10° M34'54 21° M37'13 0° A 22° A36'42 0° M 12° M40'37 19° M58'22 17° M21'20 14° M05'30	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03 1.33095 AU 27°26'07	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 17 21:23 5120 Jul 13 23:05 5120 Jul 13 23:05 5120 Jul 13 23:05 5120 Jul 13 23:05 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 17 15:53 5120 Aug 17 15:53 5120 Aug 30 10:33 5120 Sep 07 01:12 5120 Sep 18 13:55 5120 Sep 24 09:23 5120 Oct 02 09:52	24° 814'58 25° 843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 08'08 22° II 25'47 0° II 0° II 08'08 22° II 25'47 0° II 08' II	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01 1.32307 AU
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 evening max el retrograde evening set	5119 May 21 22:59 5119 Jun 01 12:41 5119 Jun 08 18:09 5119 Jun 19 05:05 5119 Jun 21 03:16 5119 Jun 25 04:52 5119 Jun 30 04:13 5119 Jun 30 00:03 5119 Jul 01 23:37 5119 Jul 08 19:14 5119 Jul 12 23:27 5119 Jul 26 16:03 5119 Aug 09 06:50 5119 Aug 09 06:50 5119 Aug 20 05:18 5119 Aug 20 05:18 5119 Aug 27 04:26 5119 Aug 27 02:37 5119 Aug 29 07:14 5119 Sep 03 14:20 5119 Sep 07 21:02 5119 Sep 21 04:12 5119 Sep 26 08:14 5119 Oct 07 05:41 5119 Oct 20 20:36 5119 Oct 27 23:17	10° II 18'49 0° 90 9° 919'28 14° 926'26 14° 916'47 12° 959'48 10° 917'12 10° 923'27 9° 912'13 5° 958'42 5° 920'43 12° 904'01 0° A 11° A54'55 20° A58'08 0° M 6° M01'13 5° M51'26 10° M34'54 21° M37'13 0° 9 22° 936'42 0° M 12° M40'37 19° M58'22 17° M21'20	-1°29'06 1°27'34 0.55159 AU 24°02'30 1°34'13 1°34'03 1.33095 AU 27°26'07	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5120 May 04 23:03 5120 May 05 17:06 5120 May 07 21:34 5120 May 21 12:56 5120 May 30 08:00 5120 Jun 01 08:21 5120 Jun 09 15:28 5120 Jun 09 16:29 5120 Jun 11 01:53 5120 Jun 12 14:50 5120 Jun 17 21:23 5120 Jun 17 21:23 5120 Jul 17 20:01 5120 Jul 13 23:05 5120 Jul 13 23:05 5120 Jul 31 21:35 5120 Aug 01 16:24 5120 Aug 03 16:45 5120 Aug 10 12:50 5120 Aug 11 14:25 5120 Aug 11 14:25 5120 Aug 17 15:53 5120 Aug 17 15:53 5120 Aug 17 15:53 5120 Sep 07 01:12 5120 Sep 18 13:55 5120 Sep 24 09:23	24° 814'58 25° 843'58 0° II 21° II 08'36 25° II 26'39 25° II 14'03 21° II 01'27 20° II 59'41 20° II 02'06 18° II 59'36 16° II 07'20 15° II 06'08 22° II 25'47 0° II 0° II 08'03 20° A 54'41 20° A 42'16 23° A 02'49 0° II 0° II 08'03 0° II 08' II 08'03' 0° II 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03' 08'03'	19°05'20 0°25'16 0°24'54 0.56420 AU 25°41'18 1°21'19 1°21'01 1.32307 AU

min. Earth dist.	5120 Oct 13 04:26	27° Ω 26'25	0.61928 AU	min. Earth dist.	5121 Sep 25 06:04	10° ₽ 01'33	0.59882 AU
inferior conj	5120 Oct 16 04:20	24° Ω 42'43		inferior conj	5121 Sep 28 11:48	7° £ 26'56	
minimum elong	5120 Oct 16 10:29	24° £ 28'41	3°46'00	minimum elong	5121 Sep 28 17:39	7° Ω 15'14	
morning rise	5120 Oct 23 09:25	19° ≙ 41'58		morning rise	5121 Oct 06 04:01	2° £ 47'53	
direct	5120 Oct 25 17:18	19° ≏ 18'32		direct	5121 Oct 08 12:06	2° £ 27'52	
asc. node	5120 Oct 28 15:37	19° ≏ 56'56		asc. node	5121 Oct 15 12:41	5° ≏ 38'51	
morning max el	5120 Nov 01 15:14	22° ≏ 48'34	17°52'32	morning max el	5121 Oct 16 02:39	6° ₽ 11'27	18°13'14
•	5120 Nov 07 06:09	0°M			5121 Oct 31 05:23	0° M	
morning set	5120 Nov 17 11:24	17° M .35'47		morning set	5121 Oct 31 22:33	1°ML21'04	
	5120 Nov 24 09:40	0°⊀					
				superior conj	5121 Nov 10 08:47	18°M55'51	1°10'23
superior conj	5120 Nov 28 06:49	6° ∡ ¹45′08	0°39'58	minimum elong	5121 Nov 10 12:41	19° ™ 13'29	1°09'56
minimum elong	5120 Nov 28 10:09	6° ₮ 59'25	0°39'30		5121 Nov 16 15:20	0° ∡ ¹	
desc. node	5120 Dec 04 00:30	16° ≯ 24'33		max. Earth dist.	5121 Nov 17 23:43	2° ∡ 18'11	1.41172 AU
max. Earth dist.	5120 Dec 05 14:00	18° ∡ 58′27	1.43033 AU	desc. node	5121 Nov 20 21:32	7° ∡ 10'37	
	5120 Dec 12 11:34	0°ප		evening rise	5121 Nov 22 20:56	10° ∡ ¹25′08	
evening rise	5120 Dec 12 14:05	0° る 09'52			5121 Dec 05 12:06	0°ප	
	5121 Jan 01 17:29	0° ≈		evening max el	5121 Dec 26 21:05	27° る 52'31	23°06'52
evening max el	5121 Jan 13 05:00	14° ≈ 14'32	21°48'00		5121 Dec 29 03:22	0° ≈	
retrograde	5121 Jan 22 09:10	19° ≈ 41'30		retrograde	5122 Jan 06 03:59	3° ≈ 58′07	
asc. node	5121 Jan 24 14:50	19° ≈ 14'50		evening set	5122 Jan 11 01:05	1° ≈ 57'38	
evening set	5121 Jan 26 18:12	17° ≈ 56'50		asc. node	5122 Jan 11 11:54	1° ≈ 33'57	
inferior conj	5121 Feb 01 02:21	11° ≈ 38'32	2°17'55		5122 Jan 13 00:20	30°Rる	
minimum elong	5121 Jan 31 23:58	11° ≈ 46'49	2°17'10	inferior conj	5122 Jan 16 10:25	25° පි 33'20	
min. Earth dist.	5121 Feb 01 04:38	11° ≈ 30'37	0.68041 AU	minimum elong	5122 Jan 16 08:27	25° る 40'08	1°35'17
morning rise	5121 Feb 06 05:33	5° ≈ 26'55		min. Earth dist.	5122 Jan 16 01:21	26° る 04'34	0.68097 AU
direct	5121 Feb 11 04:25	3°≈19'19		morning rise	5122 Jan 21 15:43	19° る 25'52	
morning max el	5121 Feb 21 01:38	9°≈10'12	22°46'51	direct	5122 Jan 26 00:14	17°る41'10	
desc. node	5121 Mar 01 23:44	19° ≈ 45'40		morning max el	5122 Feb 03 16:14	22° ♂ 42'58	21°22'12
	5121 Mar 09 09:20	0°) (4,402			5122 Feb 09 22:49	0° ≈	
morning set	5121 Mar 27 08:11	27°) (44'02		desc. node	5122 Feb 16 20:46	9° ≈ 23'46	
Fauth diat	5121 Mar 28 16:58	0° Υ 5° Υ 28'51	1 40005 ATT		5122 Mar 02 17:23	0° ₩ 6° ₩ 44'15	
max. Earth dist.	5121 Mar 31 22:49	5 1 28 51	1.40095 AU	morning set max. Earth dist.	5122 Mar 07 00:53 5122 Mar 14 00:09	17°) 58'10	1.42176 AU
superior conj	5121 Apr 08 17:31	19° Ƴ 13'11	1050/20	max. Earm dist.	3122 Mai 14 00.09	17 75810	1.42170 AU
minimum elong	5121 Apr 08 17.31 5121 Apr 08 22:26		1°50'02	superior conj	5122 Mar 21 10:14	0° Υ' 28'07	2006/05
minimum clong	5121 Apr 08 22:20 5121 Apr 14 12:49	0° 8	1 30 02	minimum elong	5122 Mar 21 13:02		2°05'59
	3121 Apr 14 12.47	v O		minimum ciong	3122 War 21 13.02	0 1 70 11	2 03 37
evening rice	5121 Apr 18 13:46	7° ∺ 40'10			5122 Mar 21 03:43	0 ° \sim	
evening rise	5121 Apr 18 13:46	7° 8 40'10		evening rise	5122 Mar 21 03:43	0°Υ 20°Υ25'26	
evening rise asc. node	5121 Apr 22 14:08	15° 8 13'36		evening rise	5122 Apr 01 15:19	20° Y 25′26	
asc. node	5121 Apr 22 14:08 5121 May 01 14:27	15° 8 13'36 0°П	18°26'54		5122 Apr 01 15:19 5122 Apr 06 22:54	20° Y 25'26 0° と	
asc. node evening max el	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16	15° 8 13'36 0°П 3°П35'22	18°26'54	asc. node	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10	20° Y 25'26 0° 8 4° 8 21'03	18°08'26
asc. node evening max el retrograde	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40	15° 8 13'36 0°П	18°26'54	asc. node evening max el	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29	20°Y25'26 0°႘ 4°႘21'03 16°႘30'17	18°08'26
asc. node evening max el	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47	15° 8 13'36 0° П 3° П 35'22 7° П 18'42	18°26'54 1°54'32	asc. node evening max el retrograde	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40	18°08'26
asc. node evening max el retrograde evening set	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40	15° 8 13'36 0°Ш 3°Ш35'22 7°Ш18'42 6°Ш58'53		asc. node evening max el retrograde evening set	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59	
asc. node evening max el retrograde evening set inferior conj	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21	15° 8 13'36 0°П 3°П35'22 7°П18'42 6°П58'53 2°П26'36	1°54'32	asc. node evening max el retrograde evening set inferior conj	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40	
asc. node evening max el retrograde evening set inferior conj	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58	15° 8 13'36 0° П 3° П 35'22 7° П 18'42 6° П 58'53 2° П 26'36 2° П 19'48	1°54'32	asc. node evening max el retrograde evening set	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49	2°52'37
asc. node evening max el retrograde evening set inferior conj minimum elong	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10	15°813'36 0° II 3° II 35'22 7° II 18'42 6° II 58'53 2° II 26'36 2° II 19'48 30° R8	1°54'32 1°53'31	asc. node evening max el retrograde evening set inferior conj minimum elong	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33	2°52'37 2°51'57
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11	15° 8 13'36 0° П 3° П 35'22 7° П 18'42 6° П 58'53 2° П 26'36 2° П 19'48 30° R8 29° 8 42'42	1°54'32 1°53'31	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05	2°52'37 2°51'57
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56	15°813'36 0°Ш 3°Ш35'22 7°Ш18'42 6°Ш58'53 2°Ш26'36 2°Ш19'48 30°R8 29°842'42 27°820'35	1°54'32 1°53'31	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51	2°52'37 2°51'57
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45	15°\delta13'36 0°\delta 3°\delta35'22 7°\delta18'42 6°\delta58'53 2°\delta26'36 2°\delta19'48 30°\deltad 29°\delta42'42 27°\delta20'35 26°\delta59'25	1°54'32 1°53'31	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03	2°52'37 2°51'57 0.60509 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50	15°\delta13'36 0°\delta 3°\delta35'22 7°\delta18'42 6°\delta58'53 2°\delta26'36 2°\delta19'48 30°\delta\delta27°\delta20'35 26°\delta59'25 25°\delta25'48	1°54'32 1°53'31 0.58324 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37	2°52'37 2°51'57 0.60509 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10	15°♥13'36 0°Ⅱ 3°Ⅱ35'22 7°Ⅱ18'42 6°Ⅱ58'53 2°Ⅱ26'36 2°Ⅱ19'48 30°₹♥ 29°♥42'42 27°♥20'35 26°♥59'25 25°♥25'48 0°Ⅱ	1°54'32 1°53'31 0.58324 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30	2°52'37 2°51'57 0.60509 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07	15°♥13'36 0°Ⅱ 3°Ⅱ35'22 7°Ⅱ18'42 6°Ⅱ58'53 2°Ⅱ26'36 2°Ⅱ19'48 30°₨₩ 29°♥42'42 27°♥20'35 26°♥59'25 25°♥25'48 0°Ⅲ 3°Ⅱ07'58	1°54'32 1°53'31 0.58324 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II	2°52'37 2°51'57 0.60509 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 13:26	15°813'36 0° II 3° II 35'22 7° II 18'42 6° II 58'53 2° II 26'36 2° II 19'48 30° R8 29° 842'42 27° 820'35 26° 859'25 25° 825'48 0° II 3° II 07'58 0° II 20° II 3° II 07'58 0° II 20° II 3° II 07'58	1°54'32 1°53'31 0.58324 AU	asc. node 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	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 06 10:27	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28	2°52'37 2°51'57 0.60509 AU 27°44'00
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17	15° 813'36 0° II 3° II 35'22 7° II 18'42 6° II 58'53 2° II 26'36 2° II 19'48 30° R8 29° 842'42 27° 820'35 26° 859'25 25° 825'48 0° II 3° II 07'58 0° 95 20° 9532'20	1°54'32 1°53'31 0.58324 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50	2°52'37 2°51'57 0.60509 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 23 11:40	15°813'36 0°II 3°II35'22 7°II18'42 6°II58'53 2°II26'36 2°II19'48 30°R8 29°842'42 27°820'35 26°859'25 25°825'48 0°II 3°II07'58 0°S 20°S32'20 21°S31'07 0°Ω	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist.	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 06 10:27 5122 Jul 09 12:12	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02	2°52'37 2°51'57 0.60509 AU 27°44'00
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 19 00:07 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 23 11:40 5121 Jul 26 02:53	15° 813'36 0° Π 3° Π35'22 7° Π18'42 6° Π58'53 2° Π26'36 2° Π19'48 30° κ8 29° 842'42 27° 820'35 26° 859'25 25° 825'48 0° Π 3° Π07'58 0° 9 20° 932'20 21° 931'07 0° Ω 5° Ω48'33	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist. superior conj	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 04:07	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 19 02:17 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 23 11:40 5121 Jul 26 02:53 5121 Jul 26 00:39	15°\delta13'36 0°\delta 3°\delta35'22 7°\delta18'42 6°\delta58'53 2°\delta26'36 2°\delta19'48 30°\delta 29°\delta42'42 27°\delta20'35 26°\delta59'25 25°\delta25'48 0°\delta 3°\delta07'58 0°\delta 20°\delta31'07 0°\delta 5°\delta48'33 5°\delta36'10	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist.	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 06 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02	2°52'37 2°51'57 0.60509 AU 27°44'00
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 01:19	15°\delta13'36 0°\delta 3°\delta35'22 7°\delta18'42 6°\delta58'53 2°\delta26'36 2°\delta19'48 30°\delta27'\delta20'35 26°\delta59'25 25°\delta25'48 0°\delta3'\delta07'58 0°\delta20'35 20°\delta32'00 21°\delta31'07 0°\delta 5°\delta48'33 5°\delta36'10 5°\delta39'50	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist. superior conj minimum elong	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 01 00:46 5122 Jun 03 08:13 5122 Jul 06 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 10 12:22 5122 Jul 14 20:28	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°S 5°S02'50 11°S34'28 18°S15'02 20°S37'24 20°S27'47 0°\$	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 19 00:07 5121 Jul 19 02:17 5121 Jul 19 02:17 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 01:19 5121 Aug 01 22:59	15°\delta13'36 0°\delta 3°\delta35'22 7°\delta18'42 6°\delta58'53 2°\delta26'36 2°\delta19'48 30°\delta 29°\delta42'42 27°\delta20'35 26°\delta59'25 25°\delta25'48 0°\delta 3°\delta07'58 0°\delta 20°\delta32'20 21°\delta31'07 0°\delta 5°\delta48'33 5°\delta33'50\delta39'50 20°\delta42'10	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist. superior conj	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 01 00:46 5122 Jun 03 08:13 5122 Jul 06 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 10 12:22 5122 Jul 17 09:26	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°11 0°9 5°902'50 11°934'28 18°915'02 20°937'24 20°927'47 0°\$\Omega_5°\Omega_29'06	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning set asc. node superior conj minimum elong max. Earth dist. evening rise	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 19 00:07 5121 Jul 19 02:17 5121 Jul 19 02:17 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 00:39 5121 Jul 26 01:19 5121 Aug 01 22:59 5121 Aug 06 12:06	15° \(\) 13'36 0° \(\) 1 3° \(\) 13'5'22 7° \(\) 18'42 6° \(\) 58'53 2° \(\) 126'36 2° \(\) 19'48 30° \(\) 29° \(\) 42'42 27° \(\) 20'35 26° \(\) 55'25 25° \(\) 25'48 0° \(\) 1 3° \(\) 107'58 0° \(\) 20° \(\) 32'20 21° \(\) 331'07 0° \(\) 5° \(\) 48'33 5° \(\) 33'50 20° \(\) 42'10 0° \(\) 0° \(\) 1	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist. superior conj minimum elong	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 03 08:13 5122 Jul 06 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 10 12:22 5122 Jul 17 09:26 5122 Jul 30 06:35	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°\$5 5°\$02'50 11°\$34'28 18°\$15'02 20°\$37'24 20°\$27'47 0°\$6 5°\$029'06 0°\$6	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 01:19 5121 Aug 01 22:59 5121 Aug 06 12:06 5121 Aug 24 22:14	15°813'36 0°II 3°II35'22 7°II18'42 6°II58'53 2°II26'36 2°II19'48 30°R8 29°842'42 27°820'35 26°859'25 25°825'48 0°II 3°II07'58 0°S 20°S32'20 21°S31'07 0°\$\Omega\$ 5°\$\Omega\$48'33 5°\$\Omega\$39'50 20°\$\Omega\$42'10 0°ID 29°ID54'36	1°54'32 1°53'31 0.58324 AU 26°59'05	asc. node 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 max. Earth dist. superior conj minimum elong evening rise desc. node	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 01 00:46 5122 Jun 03 08:13 5122 Jul 03 08:13 5122 Jul 06 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 17 09:26 5122 Jul 30 06:35 5122 Aug 11 19:14	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02 20°937'24 20°927'47 0°0 5°029'06 0°M 16°M54'22	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11 0°41'49
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 01:19 5121 Aug 01 22:59 5121 Aug 06 12:06 5121 Aug 24 22:14 5121 Aug 24 23:57	15°813'36 0° II 3° II 35'22 7° II 18'42 6° II 58'53 2° II 26'36 2° II 19'48 30° R8 29° 842'42 27° 820'35 26° 859'25 25° 825'48 0° II 3° II 07'58 0° © 20° © 32'20 21° © 31'07 0° \$\mathcal{Q}\$ 5° \$\mathcal{Q}\$ 48'33 5° \$\mathcal{Q}\$ 39'50 20° \$\mathcal{Q}\$ 42'10 0° ID 29° ID 54'36 0° \$\mathcal{Q}\$	1°54'32 1°53'31 0.58324 AU 26°59'05 1°03'47 1°03'24 1.31949 AU	asc. node 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 max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 04 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 10 12:22 5122 Jul 17 09:26 5122 Jul 30 06:35 5122 Aug 11 19:14 5122 Aug 13 10:51	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02 20°937'24 20°927'47 0°0 5°029'06 0°m 16°m54'22 18°m53'23	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 02:17 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 00:39 5121 Jul 26 01:19 5121 Aug 01 22:59 5121 Aug 06 12:06 5121 Aug 24 22:14 5121 Aug 24 23:57 5121 Aug 31 16:16	15° \(\) 13'36 0° \(\) 3° \(\) 13'36 0° \(\) 3° \(\) 13'5'22 7° \(\) 118'42 6° \(\) 158'53 2° \(\) 126'36 2° \(\) 19'48 30° \(\) 29° \(\) 42'42 27° \(\) 20'35 26° \(\) 559'25 25° \(\) 25'48 0° \(\) 3° \(\) 107'58 0° \(\) 20° \(\) 33'2'20 21° \(\) 33'1'07 0° \(\) 5° \(\) 48'33 5° \(\) 36'10 5° \(\) 48'33 5° \(\) 36'10 5° \(\) 43'36 0° \(\) 20° \(\) 42'10 0° \(\) 10 0° \(\) 29° \(\) 54'36 0° \(\) 223'45	1°54'32 1°53'31 0.58324 AU 26°59'05 1°03'47 1°03'24 1.31949 AU	asc. node 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 max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 04 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 10 12:22 5122 Jul 17 09:26 5122 Jul 30 06:35 5122 Aug 11 19:14 5122 Aug 13 10:51 5122 Aug 27 09:26	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02 20°937'24 20°927'47 0°0 5°602'906 0°III 0°III 0°IIII 0°IIIIIIIIIIIIIIII	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11 0°41'49
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	5121 Apr 22 14:08 5121 May 01 14:27 5121 May 04 17:16 5121 May 12 05:40 5121 May 14 12:47 5121 May 21 23:58 5121 May 22 03:21 5121 May 25 01:10 5121 May 25 10:11 5121 May 28 22:56 5121 May 29 14:45 5121 Jun 04 14:50 5121 Jun 15 11:10 5121 Jun 19 00:07 5121 Jul 08 11:03 5121 Jul 19 02:17 5121 Jul 19 13:26 5121 Jul 26 02:53 5121 Jul 26 00:39 5121 Jul 26 01:19 5121 Aug 01 22:59 5121 Aug 06 12:06 5121 Aug 24 22:14 5121 Aug 24 23:57	15°813'36 0° II 3° II 35'22 7° II 18'42 6° II 58'53 2° II 26'36 2° II 19'48 30° R8 29° 842'42 27° 820'35 26° 859'25 25° 825'48 0° II 3° II 07'58 0° © 20° © 32'20 21° © 31'07 0° \$\mathcal{Q}\$ 5° \$\mathcal{Q}\$ 48'33 5° \$\mathcal{Q}\$ 39'50 20° \$\mathcal{Q}\$ 42'10 0° ID 29° ID 54'36 0° \$\mathcal{Q}\$	1°54'32 1°53'31 0.58324 AU 26°59'05 1°03'47 1°03'24 1.31949 AU	asc. node 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 max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	5122 Apr 01 15:19 5122 Apr 06 22:54 5122 Apr 09 11:10 5122 Apr 18 03:29 5122 Apr 24 21:19 5122 Apr 27 11:16 5122 May 04 05:10 5122 May 04 08:16 5122 May 07 11:57 5122 May 11 03:00 5122 May 15 19:58 5122 May 17 17:39 5122 Jun 01 00:46 5122 Jun 13 12:38 5122 Jun 30 20:43 5122 Jul 03 08:13 5122 Jul 04 10:27 5122 Jul 09 12:12 5122 Jul 10 14:07 5122 Jul 10 12:22 5122 Jul 10 12:22 5122 Jul 17 09:26 5122 Jul 30 06:35 5122 Aug 11 19:14 5122 Aug 13 10:51	20°Y25'26 0°8 4°821'03 16°830'17 19°855'40 19°825'59 14°832'49 14°825'33 11°830'05 8°841'51 6°845'03 6°834'37 14°829'30 0°II 0°9 5°902'50 11°934'28 18°915'02 20°937'24 20°927'47 0°0 5°029'06 0°m 16°m54'22 18°m53'23	2°52'37 2°51'57 0.60509 AU 27°44'00 1.32013 AU 0°42'11 0°41'49

inferior conj minimum elong morning rise	5122 Sep 10 00:34 5122 Sep 10 03:09 5122 Sep 18 02:17	19° My 31'02 19° My 26'33 15° My 15'11		inferior conj minimum elong	5123 Aug 21 17:01 5123 Aug 21 13:24 5123 Aug 23 01:12	0° M 48'30 0° M 54'02 30° R Ω	
direct morning max el asc. node	5122 Sep 20 14:16 5122 Sep 29 06:17 5122 Oct 02 09:43	14° m 56'11 19° m 03'06 22° m 32'26	18°54'53	morning rise direct	5123 Aug 30 01:59 5123 Sep 01 20:43 5123 Sep 10 12:52	26° € 52'03 26° € 32'24 0° №	
morning set	5122 Oct 07 10:41 5122 Oct 15 19:53 5122 Oct 23 04:32	0° ⊆ 15° ⊆ 34'45 0° M		morning max el asc. node	5123 Sep 11 23:11 5123 Sep 19 06:44 5123 Sep 29 22:35	1° M 14'31 10° M 22'41 0° <u>a</u>	19°58'28
superior conj	5122 Oct 24 06:16	2°M03'20	1°30'20	morning set	5123 Sep 30 00:04	0° ≙ 07'34	
minimum elong	5122 Oct 24 00:10 5122 Oct 24 09:08	2°M17'01	1°30'06	superior conj	5123 Oct 07 18:05	15° £ 52'51	1°40'54
max. Earth dist.	5122 Oct 31 05:23	14°M55'07	1.39077 AU	minimum elong	5123 Oct 07 19:23	15° ≙ 59'25	1°40'51
evening rise	5122 Nov 04 02:25	21°M41'38		max. Earth dist.	5123 Oct 13 10:42	26° ≏ 57'34	1.37003 AU
desc. node	5122 Nov 07 18:32	27°M51'58			5123 Oct 15 01:43	0°M	
	5122 Nov 09 01:48 5122 Nov 29 12:08	0°♂		evening rise desc. node	5123 Oct 17 05:42 5123 Oct 25 15:33	3°M57'48 18°M24'31	
evening max el	5122 Nov 29 12:08 5122 Dec 09 10:24		24°26'15	dese. Hode	5123 Nov 02 01:45	0° ₹	
retrograde	5122 Dec 20 19:10	18° ප 12'31		evening max el	5123 Nov 21 22:51	25° ∡ 17'03	25°39'18
evening set	5122 Dec 26 05:27	15° පි 56'42			5123 Nov 27 15:52	5°0	
asc. node	5122 Dec 29 08:56	12° る 35'17		retrograde	5123 Dec 04 05:54	2° る 19'52	
min. Earth dist. inferior conj	5122 Dec 30 21:16 5122 Dec 31 17:18	10°る37'28 9°る30'24	0.67783 AU 0°47'15	evening set	5123 Dec 10 05:41 5123 Dec 10 01:18	29° ₰ 50'53 30°₽ ₰	
minimum elong	5122 Dec 31 17:18 5122 Dec 31 16:12	9° る 30'24	0°46'49	min. Earth dist.	5123 Dec 10 01:18 5123 Dec 14 14:07	25° ₹ 106'17	0.67109 AU
morning rise	5123 Jan 06 03:02	3° る 28'55	0 10 19	inferior conj	5123 Dec 15 21:13	23° ₹ 27'13	
direct	5123 Jan 09 22:11	2° る 06'27		minimum elong	5123 Dec 15 21:24	23° ∡ ¹26'37	0°07'21
morning max el	5123 Jan 17 14:23	6° ප 27'43	20°08'21	transit middle	5123 Dec 15 21:24	23° ∡ ¹26'37	0°07'21
desc. node	5123 Feb 03 17:48	29° ප් 26'21		transit begin	5123 Dec 15 18:54	23° х 34'37	
morning set	5123 Feb 04 02:48 5123 Feb 13 22:30	0°≈ 14°≈56'34		transit end asc. node	5123 Dec 15 23:55 5123 Dec 16 05:57	23° ₹ 18'38 22° ₹ 59'25	
morning set	5123 Feb 13 22.30 5123 Feb 23 12:59	0°)		morning rise	5123 Dec 10 03:37 5123 Dec 21 13:31	17° × ⁷ 33'47	
max. Earth dist.	5123 Feb 24 09:08	1° ¥ 20′31	1.43862 AU	direct	5123 Dec 24 20:55	16° ∡ ³30'53	
				morning max el	5123 Dec 31 20:25	20° х 23′16	19°08'53
superior conj	5123 Mar 02 01:53	10°) 34′20			5124 Jan 08 12:48	0°ਤ	
minimum elong	5123 Mar 01 23:20	10°) 23′51 0° γ	2°07'21	greatest brilliancy	5124 Jan 14 17:44	9°る11'27 19°る46'55	-0.8m
evening rise	5123 Mar 13 14:37 5123 Mar 14 23:14	0°γ° 2°Υ20'45		desc. node morning set	5124 Jan 21 14:49 5124 Jan 24 00:49	19°046'55 23° る 31'58	
asc. node	5123 Mar 27 08:11	22°Υ58'16		morning set	5124 Jan 28 04:36	0°≈	
evening max el	5123 Apr 01 16:10	29° Y 43'12	18°09'17	max. Earth dist.	5124 Feb 07 00:11		1.44952 AU
	5123 Apr 01 23:02	0°8					
retrograde	5123 Apr 08 02:29	3° 8 05'53		superior conj	5124 Feb 09 17:28	19° ≈ 39'10	
evening set	5123 Apr 10 22:39	2° 8 24'48		minimum elong	5124 Feb 09 09:06	19°≈06'03	1°49'05
inferior conj	5123 Apr 14 08:19 5123 Apr 17 03:18	30°ŖƳ 27°Ƴ11'54	3°23'27	evening rise	5124 Feb 16 05:02 5124 Feb 24 09:30	0° ∺ 13° ∺ 19'57	
minimum elong	5123 Apr 17 04:56	27° Υ 07'33	3°23'15	evening rise	5124 Mar 05 14:24	0° Υ	
min. Earth dist.	5123 Apr 19 22:23	24° Y 14'25	0.62660 AU	asc. node	5124 Mar 13 05:13	10° Ƴ 56′24	
morning rise	5123 Apr 23 09:51	21° Y ′06'51		evening max el	5124 Mar 15 04:29	13° Y 07'49	18°28'45
direct	5123 Apr 30 06:12	18° Y 32'59		retrograde	5124 Mar 21 16:37	16° Y 40'47	
desc. node morning max el	5123 May 02 17:00 5123 May 14 07:10	18°Υ50'56 26°Υ33'13	27°51'12	evening set inferior conj	5124 Mar 24 19:02 5124 Mar 30 14:18	15° Ƴ 47'18 10° Ƴ 16'24	3°33'02
morning max er	5123 May 17 07:10 5123 May 17 12:32	0° 8	27 31 12	minimum elong	5124 Mar 30 14:19	10°Υ16'20	3°33'02
	5123 Jun 07 03:09	$\Pi^{\circ}0$		min. Earth dist.	5124 Apr 01 18:20	7° Ƴ 43'22	0.64557 AU
morning set	5123 Jun 17 08:22	19° Ⅱ 13'15		morning rise	5124 Apr 05 08:53	4° Υ 04'25	
	5123 Jun 22 12:34	0°€		direct	5124 Apr 12 02:59	1°Υ16'15	
max. Earth dist. asc. node	5123 Jun 22 19:01 5123 Jun 23 07:28	0° © 34'33 1° © 41'19	1.32500 AU	desc. node morning max el	5124 Apr 18 14:02 5124 Apr 25 16:45	3° Y 21'22 9° Y 12'02	2702227
asc. node	3123 Juli 23 07.28	1 3 41 19		morning max er	5124 May 11 22:18	0° 8	21 22 21
superior conj	5123 Jun 24 22:57	5° © 14'41	0°17'04		5124 May 29 11:49	0°II	
minimum elong	5123 Jun 24 22:09	5° © 10'20	0°16'53	morning set	5124 May 31 00:07	2° Ⅱ 55'45	
evening rise	5123 Jul 01 21:11	20°916'05		max. Earth dist.	5124 Jun 04 17:42	12° Ⅱ 26'46	1.33438 AU
	5123 Jul 06 14:32	0°N	22051151		5124 T 00 02 20	100110	0010140
evening max el	5123 Jul 25 23:39 5123 Jul 26 23:42	29° Ω 03'46 0° m	23°51'51	superior conj minimum elong	5124 Jun 08 03:28 5124 Jun 08 04:02	19° Ⅲ 34'51 19° Ⅲ 37'48	
desc. node	5123 Jul 29 16:14	رابات 2° ا¶ 12′08		behind sun begin	5124 Jun 07 23:55	19 П 3748 19° П 16'01	0 1042
retrograde	5123 Aug 08 16:36	5° m 57'13		behind sun end	5124 Jun 08 08:08	19° Ⅲ 59'36	
evening set	5123 Aug 13 03:20	5° m 13'36		asc. node	5124 Jun 09 04:29	21° II 47'50	
min. Earth dist.	5123 Aug 19 09:52	2°Mp12'15	0.56116 AU		5124 Jun 13 00:28	0ං ව	

evening rise	5124 Jun 15 08:25	4° 9 57'16		evening rise	5125 May 30 17:10	19° Ⅱ 26'48	
	5124 Jun 28 22:32	$0^{\circ}\Omega$			5125 Jun 04 23:38	0 \circ \odot	
evening max el	5124 Jul 06 13:58	9° Ω 25'27	22°14'38	evening max el	5125 Jun 18 13:38	20°911'07	20°46'56
desc. node	5124 Jul 15 13:15	15° Ω 14'03		retrograde	5125 Jun 30 00:17	25°5548'02	
retrograde	5124 Jul 19 11:51	15° Ω 50'08		evening set	5125 Jul 02 02:33	25°537'30	
evening set	5124 Jul 22 11:05	15° Ω 30'37		desc. node	5125 Jul 02 10:16	25° © 34'05	
min. Earth dist.	5124 Jul 30 20:02		0.55024 AU	inferior conj	5125 Jul 11 09:44	21°9540'33	-2°37'36
inferior conj	5124 Jul 31 16:33	11° Ω 24'35		minimum elong	5125 Jul 11 02:33	21°950'46	2°35'09
minimum elong	5124 Jul 31 08:02	11° Ω 36'37		min. Earth dist.	5125 Jul 12 07:13	21°909'57	0.54833 AU
morning rise	5124 Aug 09 06:45	7° Ω 34'35	1 13 2)	morning rise	5125 Jul 20 02:14	17°937'54	0.5 1055 710
direct	5124 Aug 12 10:45	7° Ω 12'05		direct	5125 Jul 23 20:08	17°907'43	
morning max el	5124 Aug 24 03:59	12°Ω40'23	21022146	morning max el	5125 Jul 25 20:08 5125 Aug 05 22:32	23°925'15	22002124
asc. node	•	28° Ω 56'39	21 22 40	morning max er	•	23 3 23 13	23 02 24
asc. node	5124 Sep 05 03:45			1	5125 Aug 11 19:49		
	5124 Sep 05 18:05	0° Mp		asc. node	5125 Aug 23 00:48	18° Ω 03'47	
morning set	5124 Sep 13 08:40	14° m 52'33		morning set	5125 Aug 28 19:45	29° Ω 44'32	
	510.1.0	00.011111	10.4010.0		5125 Aug 28 22:40	0° m)	
superior conj	5124 Sep 20 15:59	0° £ 11'44	1°43'28				
minimum elong	5124 Sep 20 15:48	0° ≙ 10'48	1°43'27	superior conj	5125 Sep 04 20:48	14° m 50'38	1°39'17
	5124 Sep 20 13:43	0∘ ಹ		minimum elong	5125 Sep 04 19:28	14° m 43'29	1°39'12
max. Earth dist.	5124 Sep 24 21:18	8° ≏ 48'38	1.35182 AU	max. Earth dist.	5125 Sep 07 16:49	20° m 51'06	1.33741 AU
evening rise	5124 Sep 29 03:02	17° £ 04'07			5125 Sep 12 04:11	0∘ 亚	
	5124 Oct 06 06:37	0° M		evening rise	5125 Sep 12 14:13	0° ≙ 49'47	
desc. node	5124 Oct 11 12:33	8°M42'47		desc. node	5125 Sep 28 09:35	28° ≏ 40'25	
	5124 Oct 26 10:21	0° ∡ ¹			5125 Sep 29 06:18	0° M ₊	
evening max el	5124 Nov 03 11:32	8° ҂ 757'36	26°38'35	evening max el	5125 Oct 17 00:10	22°M26'42	27°16'35
retrograde	5124 Nov 16 11:24	16° ∡ 13'01		retrograde	5125 Oct 30 10:56	29°M44'44	
evening set	5124 Nov 22 23:52	13° ∡ ³35′16		evening set	5125 Nov 06 09:38	27°ML05'06	
min. Earth dist.	5124 Nov 27 01:39	9° ∡ ¹25'51	0.66086 AU	min. Earth dist.	5125 Nov 10 05:31	23°M30'22	0.64724 AU
inferior conj	5124 Nov 28 20:11	7° ҂ 19′23	-1°07'02	inferior conj	5125 Nov 12 11:56	21°ML02'21	-2°09'47
minimum elong	5124 Nov 28 22:03	7° ∡ 13'50	1°06'12	minimum elong	5125 Nov 12 15:42	20°M52'05	2°08'16
asc. node	5124 Dec 02 03:00	3° х 41′50		morning rise	5125 Nov 18 22:57	15°MJ33'03	
morning rise	5124 Dec 04 21:00	1° х 36′30		asc. node	5125 Nov 19 00:02	15°MJ31'51	
direct	5124 Dec 07 18:40	0° ⊀ 149'26		direct	5125 Nov 21 13:14	14°ML57'54	
morning max el	5124 Dec 14 08:39	4°×723'51	18°25'21	morning max el	5125 Nov 28 00:37	18°M23'45	17°58'37
morning max cr	5125 Jan 01 00:50	0°る	10 23 21	morning max ci	5125 Nov 26 00:37 5125 Dec 06 14:12	0° ⊼	17 3037
morning set	5125 Jan 03 04:10	3° そ 25'36		morning set	5125 Dec 00 14:12 5125 Dec 15 13:01	14° × 747'00	
desc. node	5125 Jan 07 11:50	10°る19'42		morning set	5125 Dec 24 17:54	14 × 47 00 0°る	
desc. Hode	3123 Jan 07 11.30	10 01942		desc. node	5125 Dec 25 08:52	0 3 1°る00'49	
	5125 I 10 20-26	200=17124	1912120	desc. node	5125 Dec 25 08:52	1 600 49	
superior conj	5125 Jan 18 20:36	28°る16'34			5125 D 20 07.25	70=701142	0027112
minimum elong	5125 Jan 18 12:00	27° る 42'52	1°12'27	superior conj	5125 Dec 29 07:25	7°る21'43	
	5125 Jan 19 22:59	0°≈		minimum elong	5125 Dec 29 04:07	7°る08'32	
max. Earth dist.	5125 Jan 19 18:36	29° る 42'51	1.45332 AU	max. Earth dist.	5126 Jan 02 13:59	14°る09'06	1.44970 AU
evening rise	5125 Feb 03 20:26	23° ≈ 22'44			5126 Jan 12 17:55	0° ≈	
	5125 Feb 08 01:10	0° ∀		evening rise	5126 Jan 14 12:44	2° ≈ 45'04	
greatest brilliancy	5125 Feb 13 22:05	9° ∺ 12'27	-0.8m	greatest brilliancy	5126 Jan 28 21:11	24° ≈ 31'10	-0.6m
evening max el	5125 Feb 26 14:04	26° ∺ 38′26	19°05'53		5126 Feb 01 16:18	0° ∀	
asc. node	5125 Feb 28 02:15	28° ∺ 03′29		evening max el	5126 Feb 09 19:10	10° 升 11'45	19°58'58
	5125 Mar 03 01:08	0 ° \mathbf{V}		asc. node	5126 Feb 14 23:18	14° 米 05'43	
retrograde	5125 Mar 05 12:03	0° Ƴ 33'02		retrograde	5126 Feb 17 09:55	14° ¥ 37′27	
	5125 Mar 07 21:15	30° ₹ ₩		evening set	5126 Feb 21 03:22	13° ∺ 16′26	
evening set	5125 Mar 08 21:24	29° ∺ 26′15		inferior conj	5126 Feb 26 12:55	7° ₩ 14'55	3°07'35
inferior conj	5125 Mar 14 10:30	23° ∺ 39′00	3°26'32	minimum elong	5126 Feb 26 10:50	7° ∺ 21'54	3°07'12
minimum elong	5125 Mar 14 09:14	23°) 43′03	3°26'25	min. Earth dist.	5126 Feb 27 11:02	6°) €00'42	0.67169 AU
min. Earth dist.	5125 Mar 15 23:04	21°) 42′38	0.66077 AU	morning rise	5126 Mar 03 18:05	1° ∺ 00'24	
morning rise	5125 Mar 19 20:41	17°) 24'34			5126 Mar 04 23:46	30°R≈	
direct	5125 Mar 26 06:30	14°) €35'40		direct	5126 Mar 09 15:36	28° ≈ 22'16	
desc. node	5125 Apr 05 11:04	19°) 42′24			5126 Mar 14 20:19	0°) €	
morning max el	5125 Apr 08 02:40	22°) 13'14	26°24'26	morning max el	5126 Mar 21 11:36	5° ¥ 26'39	25°06'19
VI	5125 Apr 14 22:23	0°Υ	. = . = 0	desc. node	5126 Mar 23 08:07	7° ∺ 23'46	/
	5125 May 05 04:25	0°8			5126 Apr 09 10:12	0° Υ	
morning set	5125 May 14 03:57	16° 8 00'01		morning set	5126 Apr 05 10:12 5126 Apr 26 15:09	28° Y 12'25	
max. Earth dist.	5125 May 14 05:37 5125 May 18 05:21	23° 8 47'49	1.34845 AU	morning set	5126 Apr 27 15:04	0°8	
max. Earm uist.	5125 May 18 03.21 5125 May 21 07:57	0° Ⅱ	1.57073 AU	max. Earth dist.	5126 Apr 27 13:04 5126 Apr 30 06:29	4° 8 50'45	1.36691 AU
	3123 way 21 01.31	ν <u>н</u>		max. Earth tist.	3120 Apr 30 00.29	- 0 5045	1.50091 AU
superior con:	5125 May 22 01.24	3° Ⅱ 31'19	0.040,51	superior coni	5126 May 06 12:47	16° 8 55'41	1000'50
superior conj	5125 May 23 01:24			superior conj	5126 May 06 13:47		
minimum elong	5125 May 23 03:36	3° I I42'38	0 39'30	minimum elong	5126 May 06 17:39	17° 8 14'44	1 09/21
asc. node	5125 May 27 01:31	11° Ⅱ 50′05			5126 May 13 02:07	Π °0	

aca mada	5126 May 12 22:24	1° Ⅱ 43'27			5127 Apr. 10 17:20	0° ႘	
asc. node	5126 May 13 22:34 5126 May 14 21:12	3° Ц 37'34		avanina risa	5127 Apr 19 17:28	17° 8 22'25	
evening rise	•	о°9		evening rise asc. node	5127 Apr 28 17:47	21° 8 23'39	
evening max el	5126 May 30 13:03 5126 Jun 01 01:41	1° 93 6'21	19°36'35	asc. node	5127 Apr 30 19:38 5127 May 05 10:34	0° Ⅱ	
•	5126 Jun 10 18:36	6°920'54	19 30 33	avanina may al		13° ∏ 42'33	18°46'24
retrograde	5126 Jun 12 16:54	6°9510'28		evening max el	5127 May 15 00:55	13 H 42 33	18 40 24
evening set desc. node	5126 Jun 12 16.34 5126 Jun 19 07:19	3°526'01		retrograde	5127 May 23 05:35	17 II 44 12 17° II 28'57	
			0020126	evening set	5127 May 25 08:35	17 II 2837 13° II 07'56	1906152
inferior conj	5126 Jun 21 10:59	2°906'31		inferior conj	5127 Jun 02 07:04		1°06'53
minimum elong	5126 Jun 21 09:15	2°909'16		minimum elong	5127 Jun 02 09:29	13° I I03'29	1°06'03
min. Earth dist.	5126 Jun 23 20:16	0°936'30	0.55603 AU	min. Earth dist.	5127 Jun 05 12:51	10° Ⅱ 46′05	0.57174 AU
	5126 Jun 24 20:28	30°RⅡ		desc. node	5127 Jun 06 04:21	10° Ⅱ 19'24	
morning rise	5126 Jun 29 23:10	27° I I33'52		morning rise	5127 Jun 10 07:04	7° I I58'51	
direct	5126 Jul 04 12:47	26° Ⅱ 47'22		direct	5127 Jun 15 19:06	6° Ⅱ 44'59	
	5126 Jul 13 20:26	0°€		morning max el	5127 Jun 30 03:38	14° Ⅱ 15'10	26°17'47
morning max el	5126 Jul 18 12:13	3°547'00	24°46'05		5127 Jul 12 16:39	0°€	
	5126 Aug 05 23:55	0 \circ Ω		asc. node	5127 Jul 27 18:54	27° © 22'34	
asc. node	5126 Aug 09 21:51	7° Ω 34'40		morning set	5127 Jul 28 18:24	29° © 25'56	
morning set	5126 Aug 13 07:32	14° £ 37′21			5127 Jul 29 00:50	0 \circ Ω	
	51061 20 05 56	200 0 40124	1000101		5105 1 01 15 10	1 40 00 4150	101.410.4
superior conj	5126 Aug 20 05:56	29° Ω 40'31	1°29'21	superior conj	5127 Aug 04 17:19	14° Ω 34'50	1°14'24
minimum elong	5126 Aug 20 03:53	29° Ω 29'18	1°29'07	minimum elong	5127 Aug 04 15:00	14° Ω 22'06	1°14'03
	5126 Aug 20 09:30	0° m ∕		max. Earth dist.	5127 Aug 05 06:02	15° Ω 45'01	1.32110 AU
max. Earth dist.	5126 Aug 21 20:42	3° Mp 11'25	1.32715 AU	evening rise	5127 Aug 11 15:38	29° Ω 35'16	
evening rise	5126 Aug 27 11:25	15° Mp 03'06			5127 Aug 11 20:22	0° m	
	5126 Sep 04 05:15	0∘ ত			5127 Aug 28 08:56	0∘ ⊽	
desc. node	5126 Sep 15 06:36	18° ≏ 07'50		desc. node	5127 Sep 02 03:37	6° £ 52'46	
	5126 Sep 24 06:01	0°M		evening max el	5127 Sep 11 16:36	17° £ 55'41	27°04'34
evening max el	5126 Sep 29 10:45	5°M30′32	27°26'47	retrograde	5127 Sep 25 13:29	25° ≏ 07'26	
retrograde	5126 Oct 13 03:50	12°M45'56		evening set	5127 Oct 02 14:55	22° ≙ 54'41	
evening set	5126 Oct 20 07:58	10° M ₊13'49		min. Earth dist.	5127 Oct 06 06:58	20° ≙ 13'19	0.61076 AU
min. Earth dist.	5126 Oct 23 23:39	7° M L10'17	0.63034 AU	inferior conj	5127 Oct 09 10:20	17° ≏ 31'15	-4°11'49
inferior conj	5126 Oct 26 17:45	4°M29'03	-3°12'58	minimum elong	5127 Oct 09 16:39	17° ≏ 17'38	4°10'12
minimum elong	5126 Oct 26 23:15	4°M15'36	3°11'06	morning rise	5127 Oct 16 20:20	12° ≏ 39'43	
	5126 Nov 01 03:43	30° ₹ Ω		direct	5127 Oct 19 03:57	12° ≏ 18′02	
morning rise	5126 Nov 02 16:07	29° ≙ 16'54		asc. node	5127 Oct 23 18:09	13° ≏ 47'00	
direct	5126 Nov 05 01:36	28° ≏ 50'03		morning max el	5127 Oct 26 07:47	15° ≙ 52'19	17°58'56
asc. node	5126 Nov 05 21:06	28° ≏ 53'13			5127 Nov 05 03:54	0° M ₊	
	5126 Nov 08 21:34	0° M ₊		morning set	5127 Nov 11 01:36	10°ML41'51	
morning max el	5126 Nov 11 17:23	2°M15'51	17°49'30				
morning set	5126 Nov 27 22:20	27° M 19'01		superior conj	5127 Nov 21 05:39	29° M .07'11	0°54'12
	5126 Nov 29 11:01	0° ∡ ¹		minimum elong	5127 Nov 21 09:30	29°M24'05	0°53'42
					5127 Nov 21 17:42	0° ∡ ¹	
superior conj	5126 Dec 09 17:19	17° ∡ ³35'55	0°17'44	max. Earth dist.	5127 Nov 28 19:49	12° ∡ 104'11	1.42279 AU
minimum elong	5126 Dec 09 19:05	17° ∡ ¹43'17	0°17'29	desc. node	5127 Nov 29 02:54	12° ∡ ³33'28	
desc. node	5126 Dec 12 05:54	21° ∡ ¹46'36		evening rise	5127 Dec 04 18:40	21° ҂ ¹43'21	
max. Earth dist.	5126 Dec 16 07:21	28° ⊀ 22'26	1.43908 AU	•	5127 Dec 10 01:53	0°రె	
	5126 Dec 17 07:42	0°రె			5127 Dec 31 03:50	0° ≈	
evening rise	5126 Dec 24 22:54	11° る 59'21		evening max el	5128 Jan 06 13:01	7° ≈ 21'23	22°21'07
-	5127 Jan 05 21:22	0° ≈		retrograde	5128 Jan 16 04:33	13° ≈ 05'42	
evening max el	5127 Jan 23 18:46	23° ≈ 46′07	21°05'20	asc. node	5128 Jan 19 17:24	12° ≈ 00'01	
retrograde	5127 Feb 01 08:02	28° ≈ 49'52		evening set	5128 Jan 20 18:35	11° ≈ 14'08	
asc. node	5127 Feb 01 20:21	28° ≈ 48'27		inferior conj	5128 Jan 26 03:01		2°01'02
evening set	5127 Feb 05 11:00	27°≈13'48		minimum elong	5128 Jan 26 00:46		2°00'16
inferior conj	5127 Feb 10 19:07	21° ≈ 00'35	2°38'34	min. Earth dist.	5128 Jan 26 00:19		0.68102 AU
minimum elong	5127 Feb 10 16:43	21°≈08'54			5128 Jan 29 22:35	30°Ŗる	
min. Earth dist.	5127 Feb 11 04:12	20° ≈ 29'14		morning rise	5128 Jan 31 06:49	28° ප් 42'31	
morning rise	5127 Feb 15 22:16	14° ≈ 47'38		direct	5128 Feb 04 23:22	26° පි 44'51	
direct	5127 Feb 21 05:30	12°≈27'50		-	5128 Feb 11 21:44	0°≈	
morning max el	5127 Mar 03 20:27	12 ~ 27 30 18° ≈ 47'19	23°38'19	morning max el	5128 Feb 14 07:57	0 ~ 2° ≈ 14'38	22°09'57
desc. node	5127 Mar 10 05:09	26°≈02'41		desc. node	5128 Feb 25 02:10	15°≈22'18	
acco. node	5127 Mar 10 03:03 5127 Mar 13 07:01	0° \		acce. node	5128 Mar 06 06:46	0° \	
	5127 Mar 13 07:01 5127 Apr 02 13:23	0° Υ		morning set	5128 Mar 18 12:53	19° ₩ 03'05	
morning set	5127 Apr 08 03:58	9° Υ 18'02		max. Earth dist.	5128 Mar 23 23:40	28° H 01'59	1.41005 AU
max. Earth dist.	5127 Apr 10 03:38 5127 Apr 12 02:19	16° Υ 06'06	1.38826 AU	max. Laruf dist.	5128 Mar 25 03:38	28 γ 01 39 0° γ	1.71003 AU
max. Durin dist.	512, 11pt 12 02.19	10 1 00 00	1.50020 AU		5120 Mai 25 05.50	V 1	
superior conj	5127 Apr 19 12:56	29° Ƴ 38'38	-1°37'14	superior conj	5128 Mar 31 18:04	11° Ƴ 28'07	-1°58'29
minimum elong	5127 Apr 19 17:53	0° 8 01'55		minimum elong	5128 Mar 31 22:29	11° Y 47'43	
	5.2, .ipi 17 17.55	0 01 00		ciong	5.20 Min 51 22.2)	1 17 73	

	5120 A 10 20.26	ر _م ن			5120 M 24 21.54	120005(102	
	5128 Apr 10 20:36	0° 8		evening rise	5129 Mar 24 21:54	12° Υ 56'03	
evening rise	5128 Apr 11 03:23	0° 8 31'35		asc. node	5129 Apr 03 13:40	29° Y 40′10	
asc. node	5128 Apr 16 16:40	10° 8 44'40			5129 Apr 03 18:37	0° 8	
evening max el	5128 Apr 27 08:06	26° 8 21'58	18°16'38	evening max el	5129 Apr 10 19:45	9° 8 25'32	18°06'34
retrograde	5128 May 04 11:24	29° 8 56'03		retrograde	5129 Apr 17 09:09	12° 8 47'53	
evening set	5128 May 06 21:19	29° 8 32'26		evening set	5129 Apr 20 01:47	12° 8 13'33	
inferior conj	5128 May 14 00:43	24° 8 51'20	2°22'49	inferior conj	5129 Apr 26 13:35	7° 8 12'11	3°08'37
minimum elong	5128 May 14 04:13	24° 8 43'49	2°21'53	minimum elong	5129 Apr 26 16:08	7° と 05'52	3°08'11
min. Earth dist.	5128 May 17 10:53	21° 8 56'07	0.59235 AU	min. Earth dist.	5129 Apr 29 16:15	4° 8 08'37	0.61442 AU
morning rise	5128 May 21 08:13	19° 8 12'21		morning rise	5129 May 03 04:34	1° 8 14'12	
desc. node	5128 May 23 01:22	18° 8 21'36			5129 May 05 07:23	30° ₹Ƴ	
direct	5128 May 27 15:21	17° 8 24'02		direct	5129 May 09 22:53	28° Y 53'57	
morning max el	5128 Jun 11 00:39	25° 8 13'28	27°22'38	desc. node	5129 May 09 22:24	28° Y 53'57	
	5128 Jun 15 10:26	$\Pi^{\circ}0$			5129 May 14 20:23	0°8	
	5128 Jul 05 00:14	0ಂಣ		morning max el	5129 May 24 03:49	6° ႘ 52'41	27°51'38
morning set	5128 Jul 12 02:39	14° © 04'52		Ü	5129 Jun 10 16:10	0° I I	
asc. node	5128 Jul 13 15:56	17° © 21'45		morning set	5129 Jun 26 06:23	28° Ⅱ 27'46	
max. Earth dist.	5128 Jul 18 17:19	28°\$22'30	1.31921 AU	morning sec	5129 Jun 27 00:17	0.00 20 27 10	
max. Latin dist.	3120 Jul 10 17.17	20 322 30	1.51721710	asc. node	5129 Jun 30 12:56	7° 9 27'14	
superior conj	5128 Jul 19 05:06	29° © 27'34	0°55'06	max. Earth dist.	5129 Jul 02 02:44	10°951'41	1.32161 AU
minimum elong	5128 Jul 19 03:01	29° © 16'02		max. Earth dist.	3129 Jul 02 02.44	10 35141	1.32101 AC
minimum eiong			0 34 42		5120 I I 02 15 22	140612124	0021157
	5128 Jul 19 10:58	0° U		superior conj	5129 Jul 03 15:32	14°9512'34	0°31'57
evening rise	5128 Jul 26 00:24	14° Ω 18'48		minimum elong	5129 Jul 03 14:08	14°9504'53	0°31'38
	5128 Aug 02 20:52	0° т р		evening rise	5129 Jul 10 11:37	29° © 06'40	
desc. node	5128 Aug 19 00:37	24° Tp 38'02			5129 Jul 10 21:38	0 \circ Ω	
evening max el	5128 Aug 23 15:33	29° m 33'42	26°09'21		5129 Jul 27 13:58	0° ™	
	5128 Aug 24 02:46	0∘ ⊽		evening max el	5129 Aug 05 07:17	10° Mp 25'12	24°46'52
retrograde	5128 Sep 06 14:46	6° ≏ 41'44		desc. node	5129 Aug 05 21:39	10° m 59'00	
evening set	5128 Sep 13 01:42	5° ഫ 00'33		retrograde	5129 Aug 19 04:59	17° m 26'11	
min. Earth dist.	5128 Sep 17 04:28	2° ഫ 25'39	0.58998 AU	evening set	5129 Aug 24 12:09	16° Mg 22'55	
inferior conj	5128 Sep 20 10:15	29° m 59'59	-4°57'51	min. Earth dist.	5129 Aug 29 18:40	13° m 35'53	0.57053 AU
minimum elong	5128 Sep 20 15:09	29° m 50'45	4°57'09	inferior conj	5129 Sep 01 14:28	11° m 45'24	-5°17'38
	5128 Sep 20 10:14	30°₽, Т р		minimum elong	5129 Sep 01 14:38	11° m 45'07	5°17'38
morning rise	5128 Sep 28 06:50	25° m 31'08		morning rise	5129 Sep 09 19:29	7° m/38'22	
direct	5128 Sep 30 15:59	25° m) 11'57		direct	5129 Sep 12 09:52	7° m) 19'22	
morning max el	5128 Oct 08 16:26	29° m 04'16	18°28'20	morning max el	5129 Sep 21 15:50	11° m)40'18	19°19'09
asc. node	5128 Oct 09 15:11	0° ഫ 01'53		asc. node	5129 Sep 26 12:12	17° m) 21'37	
use. noue	5128 Oct 09 14:29	0∘ ⊽		use. Iroue	5129 Oct 04 02:29	0° ⊽	
morning set	5128 Oct 24 17:35	ა _ 24° Ω 40'59		morning set	5129 Oct 04 02:29 5129 Oct 08 18:13	∘ _ 9° ჲ 04'11	
morning set	5128 Oct 24 17:55 5128 Oct 27 11:50	0°M		morning set	3129 Oct 08 18.13	9 = 0411	
	3128 Oct 27 11.30	O IIG		gunariar agni	5129 Oct 16 20:51	250.0.12106	1025152
	5120 N 02 16 41	110 m 44151	1020104	superior conj		25° £ 12'06	
superior conj	5128 Nov 02 16:41	11°M44'51	1°20'04	minimum elong	5129 Oct 16 23:05		1°35'43
minimum elong	5128 Nov 02 20:16	12°M01'26	1°19'42	F 4 F	5129 Oct 19 08:37	0°M,	1 20102 177
max. Earth dist.	5128 Nov 10 03:06	25°M04'25	1.40289 AU	max. Earth dist.	5129 Oct 23 07:53	7°M24'26	1.38182 AU
	5128 Nov 13 00:21	0° ∡		evening rise	5129 Oct 27 02:12	14° M ₀08'27	
evening rise	5128 Nov 14 10:58	2° ∡ 24'49		desc. node	5129 Nov 01 20:56	23°M56'56	
desc. node	5128 Nov 14 23:55	3° ∡ 18′26			5129 Nov 05 15:07	0° ∡	
	5128 Dec 02 09:30	0°る			5129 Nov 27 06:33	0° る	
evening max el	5128 Dec 19 03:36	21° る 00'37	23°40'59	evening max el	5129 Dec 01 16:31	4° る 43'47	24°58'33
retrograde	5128 Dec 29 22:06	27° る 22'01		retrograde	5129 Dec 13 11:26	11° る 33'54	
evening set	5129 Jan 04 00:34	25° る 14'58		evening set	5129 Dec 19 03:22	9° る 12'27	
asc. node	5129 Jan 05 14:25	23° る 43'13		asc. node	5129 Dec 23 11:26	4° る 22'40	
inferior conj	5129 Jan 09 10:49	18° る 49'03	1°16'07	min. Earth dist.	5129 Dec 23 16:04	4° る 07'35	0.67543 AU
minimum elong	5129 Jan 09 09:09	18° る 54'43	1°15'29	inferior conj	5129 Dec 24 16:40	2° る 46'43	0°24'44
min. Earth dist.	5129 Jan 08 21:04	19° る 35'58	0.68002 AU	minimum elong	5129 Dec 24 16:04	2° る 48'44	0°24'30
morning rise	5129 Jan 14 17:42	12° る 43'39			5129 Dec 26 21:13	30°Ŗ ⋌ ¹	
direct	5129 Jan 18 20:18	11° る 08'39		morning rise	5129 Dec 30 04:56	26° ∡ ¹48'06	
morning max el	5129 Jan 27 01:32	15° る 52'27	20°49'08	direct	5130 Jan 02 18:55	25° ∡ ³34'12	
5	5129 Feb 07 08:00	0° ≈		morning max el	5130 Jan 10 03:00	29° × ⁷ 41'43	19°41'04
desc. node	5129 Feb 10 23:11	5°≈11'51		<i>3</i>	5130 Jan 10 10:15	0°ਰ	
morning set	5129 Feb 25 19:11	27°≈35'40		greatest brilliancy	5130 Jan 23 04:34	16° る 53'33	-0.7m
morning set	5129 Feb 27 08:04	27 ≈ 33 40		desc. node	5130 Jan 28 20:13	10 3 33 33 25° る 22'54	V. / 111
max. Earth dist.	5129 Mar 06 03:33	10° ¥ 52'13	1.42951 AU	dese. Houe	5130 Jan 31 20:53	23 6 22 34 0° ≈	
max. Earth dist.	5127 IVIAI 00 05.55	10 /\3213	1.72/J1 AU	morning set		0 ≈ 5°≈48'01	
suporior cor:	5120 Mar 12 00:25	220¥ 12150	2000144	morning set	5130 Feb 04 15:27		1 44411 411
superior conj	5129 Mar 13 00:25	22°¥13'59		max. Earth dist.	5130 Feb 16 15:14	24° ≈ 32'30	1.44411 AU
minimum elong	5129 Mar 13 01:18	22°) 17'42	2-08-44		5130 Feb 20 01:19	0° ∀	
	5129 Mar 17 13:29	0° Y					

superior conj	5130 Feb 21 05:13	1° ∺ 52'13	-2°02'23	minimum elong	5131 Jan 31 03:55	10° ≈ 02'03	1°35'21
minimum elong	5130 Feb 20 23:53	1°) 30′45	2°02'08	-	5131 Feb 12 18:03	0° ∀	
evening rise	5130 Mar 06 20:57	24°) €27'37		evening rise	5131 Feb 15 21:12	5°) €02'14	
	5130 Mar 10 03:28	0 ° Υ		greatest brilliancy	5131 Feb 22 02:45	15° ¥ 05'37	-0.9m
asc. node	5130 Mar 21 10:41	18° Ƴ 02'07			5131 Mar 03 19:09	0° Y	
evening max el	5130 Mar 25 08:39	22° Y 44'38	18°15'27	asc. node	5131 Mar 08 07:44	5° Y 40'04	
retrograde	5130 Mar 31 18:31	26° Ƴ 09'49		evening max el	5131 Mar 08 20:04	6° Ƴ 12'12	18°42'29
evening set	5130 Apr 03 17:26	25° Y 23′25		retrograde	5131 Mar 15 11:21	9° Ƴ 52'59	
inferior conj	5130 Apr 09 17:38	20° Y 02'45	3°29'45	evening set	5131 Mar 18 16:41	8° Y 53'45	
minimum elong	5130 Apr 09 18:34	20° Y 00'09	3°29'41	inferior conj	5131 Mar 24 08:56	3° Y 15'25	3°32'01
min. Earth dist.	5130 Apr 12 06:32	17° Ƴ 13'51	0.63508 AU	minimum elong	5131 Mar 24 08:21	3° Y 17'12	
morning rise	5130 Apr 15 18:41	13° Y 54'24		min. Earth dist.	5131 Mar 26 06:13		0.65252 AU
direct	5130 Apr 22 15:07	11° Y 12'46			5131 Mar 27 01:43	30°₽)	
desc. node	5130 Apr 26 19:26	12° Y 05′12		morning rise	5131 Mar 29 23:31	27° ¥ 02'08	
morning max el	5130 May 06 11:39	19° Ƴ 11'50	27°43'07	direct	5131 Apr 05 14:38	24°) 12′26	
	5130 May 15 15:30	0° 8		desc. node	5131 Apr 13 16:29	27°) €26'45	
	5130 Jun 03 14:47	0° Π			5131 Apr 16 19:01	0° Υ	
morning set	5130 Jun 10 03:20	12° Ⅲ 27'35		morning max el	5131 Apr 18 21:42	2° Υ 01'38	27°01'00
max. Earth dist.	5130 Jun 15 06:33	23° I 101'06	1.32840 AU		5131 May 09 20:02	0°8	
asc. node	5130 Jun 17 09:58	27° Ⅲ 34'51		morning set	5131 May 24 14:28	25° 8 54'46	
	5120 Y 17 22 40	200T 42154	0005125	E d E	5131 May 26 16:49	0°II	1 22000 111
superior conj	5130 Jun 17 22:49	28° Ⅱ 43'54	0°05'35	max. Earth dist.	5131 May 29 01:02	4° Ⅱ 40'52	1.33980 AU
minimum elong	5130 Jun 17 22:32	28° Ⅱ 42'26	0°05'30		5121 I 02 00 40	100T 5 410 6	0022112
behind sun begin behind sun end	5130 Jun 17 17:31	28°Ⅲ15'27 29°Ⅲ09'28		superior conj	5131 Jun 02 00:48	12° Ц 54'26 13° Ц 00'53	
bening sun eng	5130 Jun 18 03:34	29° Д 09′28		minimum elong	5131 Jun 02 02:02	13°Щ00′53	0-22/38
avanina riaa	5130 Jun 18 12:56 5130 Jun 24 23:24	13° 9 52'35		asc. node	5131 Jun 04 07:00 5131 Jun 09 09:49	17°Щ39'36 28°Щ29'31	
evening rise	5130 Jul 24 25:24 5130 Jul 03 01:54	13 3 3233		evening rise	5131 Jun 10 03:09	28 п 2931	
evening max el	5130 Jul	0 3 <i>t</i> 20° Ω 48'47	23°10'15		5131 Jun 28 07:27	0°Ω	
desc. node	5130 Jul 23 18:39	20 ∂ ℓ 48 47 25° Ω 24'07	23 10 13	evening max el	5131 Jun 29 13:15	1° Ω 16'21	21°35'32
retrograde	5130 Jul 31 06:23	23 8€ 24 07 27° Ω 31'49		desc. node	5131 Jul 10 15:41	7° Ω 19'06	21 33 32
evening set	5130 Aug 04 01:25	$27^{\circ}\Omega 00'24$		retrograde	5131 Jul 11 21:34	7° Ω 22'45	
min. Earth dist.	5130 Aug 11 05:00	23° Ω 45'39	0.55562 AU	evening set	5131 Jul 14 09:49	7° Ω 08'25	
inferior conj	5130 Aug 12 22:59	22°Ω44'30		inferior conj	5131 Jul 23 18:01	3°Ω07'44	-3°39'42
minimum elong	5130 Aug 12 16:45	22°Ω53'37		minimum elong	5131 Jul 23 09:14	3°Ω20'01	
morning rise	5130 Aug 21 10:22	18° Ω 52'43	. 5557	min. Earth dist.	5131 Jul 23 14:58	3°Ω12'00	0.54825 AU
direct	5130 Aug 24 09:00	18° Ω 32'00			5131 Jul 30 00:47	30°Rூ	***************************************
morning max el	5130 Sep 04 03:30	23° Ω 32'32	20°31'50	morning rise	5131 Aug 01 09:49	29° © 15'23	
5 5	5130 Sep 09 17:21	O° M⊅		direct	5131 Aug 04 19:05	28°950'28	
asc. node	5130 Sep 13 09:14	5° m/32'13			5131 Aug 10 07:05	$0^{\circ}\Omega$	
morning set	5130 Sep 23 00:36	23° Mp 43'27		morning max el	5131 Aug 17 03:27	4° Ω 39'12	22°03'52
	5130 Sep 26 01:30	0∘ ত		asc. node	5131 Aug 31 06:17	24° Ω 21'23	
					5131 Sep 03 05:45	0° m)	
superior conj	5130 Sep 30 13:25	9° ഫ 15'33	1°42'52	morning set	5131 Sep 07 10:30	8° Mg 32'22	
minimum elong	5130 Sep 30 14:05	9° ≏ 18'52	1°42'51				
max. Earth dist.	5130 Oct 05 15:13	19° ჲ 20'47	1.36201 AU	superior conj	5131 Sep 14 14:38	23° m 44'13	1°42'26
evening rise	5130 Oct 09 13:44	26° ≏ 47'33		minimum elong	5131 Sep 14 13:55	23°M/40'26	1°42'26
	5130 Oct 11 07:54	0°M			5131 Sep 17 14:50	0∘ ⊽	
desc. node	5130 Oct 19 17:56	14°M24'18		max. Earth dist.	5131 Sep 18 05:38	1° ≏ 15'46	1.34520 AU
	5130 Oct 30 01:05	0°⊀		evening rise	5131 Sep 22 17:25	10° ≏ 11'47	
evening max el	5130 Nov 14 05:13	18° ₹ 27'34	26°06'33		5131 Oct 03 18:52	0° M	
retrograde	5130 Nov 26 19:49	25° ₹ 36'06		desc. node	5131 Oct 06 14:58	4° ™ 35'02	
evening set	5130 Dec 03 01:16	23° × 02'51			5131 Oct 25 16:13	0° ⋌ ¹	
min. Earth dist.	5130 Dec 07 06:54		0.66727 AU	evening max el	5131 Oct 27 17:55	2° ₹ 04'34	26°57'37
inferior conj	5130 Dec 08 18:45	16° 🖈 42'08		retrograde	5131 Nov 09 22:48	9° ∡ 121'57	
minimum elong	5130 Dec 08 19:36	16° ₹ 39'28	0°31′48	evening set	5131 Nov 16 16:15	6° ₹ ¹42'07	0.65554.444
asc. node	5130 Dec 10 08:29	14° 🖈 47'35		min. Earth dist.	5131 Nov 20 15:20	2°×747'58	0.65554 AU
morning rise	5130 Dec 14 14:27	10° 🖈 52'51		inferior conj	5131 Nov 22 14:58	0° ∡ 31'21	
direct	5130 Dec 17 17:34	9° х 56'59	100/0110	minimum elong	5131 Nov 22 17:38	0° x ⁷ 23'43	1 32 14
morning max el	5130 Dec 24 11:56 5131 Jan 05 13:54	13°♂40'01 0°る	18°48'18	asc. node	5131 Nov 23 01:56 5131 Nov 27 05:32	30° ዪጤ 25° ጤ 54'29	
morning set	5131 Jan 05 13:54 5131 Jan 15 02:55	0°る 14° る 53'07		morning rise	5131 Nov 27 05:32 5131 Nov 28 19:59	25°11654'29 24°11654'09	
desc. node	5131 Jan 15 02.33	14 33307 15° 3 49'20		direct	5131 Dec 01 14:14	24 IIL34 09 24°M12'39	
acsc. Houc	5131 Jan 24 18:18	13 ⊙ 49 20		morning max el	5131 Dec 01 14.14 5131 Dec 08 02:13	27°M42'03	18°11'55
max. Earth dist.	5131 Jan 30 08:42	0 ∞ 8° ≈ 46'36	1.45210 AU	morning max or	5131 Dec 10 04:13	27 11 0 42 03	10 11 00
Zurur dist.	2131 Vali 30 00.72	5.4.1030		morning set	5131 Dec 26 19:08	25° × ⁷ 25'59	
superior conj	5131 Jan 31 13:18	10° ≈ 38'55	-1°36'15		5131 Dec 29 14:31	0° る	
		-1.10000				- •	

21°**≏**58'19

5133 Oct 28 15:00

direct

asc. node	5133 Oct 30 23:37	22° ≏ 23'42		asc. node	5134 Oct 17 20:37	7° ≙ 53'08	
morning max el	5133 Nov 04 11:07		17°51'06	morning max el	5134 Oct 17 20:37 5134 Oct 18 23:21	8° £ 53'29	18008154
morning max ci	5133 Nov 04 11:07 5133 Nov 08 06:23	0°M	17 31 00	morning max ci	5134 Nov 01 15:41	0°M	18 08 34
morning set	5133 Nov 20 08:57	20°ML16'17		morning set	5134 Nov 03 18:11	3°M56'18	
morning set	5133 Nov 25 19:55	20 1 017 10 17 17 17 17 17 17		morning set	31341107 03 10.11	J 11 6 30 10	
	3133 1107 23 17.33	٠ ٪		superior conj	5134 Nov 13 08:43	21°M43'07	1°06'29
superior conj	5133 Dec 01 10:09	9° ∡ ¹42'06	0°34'25	minimum elong	5134 Nov 13 00:49	22°M00'50	
minimum elong	5133 Dec 01 10:09	9° ×7 54'57	0°34'01	minimum ciong	5134 Nov 18 01:27	0°×7	1 03 37
desc. node	5133 Dec 06 08:17	17° × 757'09	0 3101	max. Earth dist.	5134 Nov 21 00:21	5° х ¹02'33	1.41469 AU
max. Earth dist.	5133 Dec 08 13:46	21° х 36'04	1.43281 AU	desc. node	5134 Nov 23 05:19	8° ₹ 143'45	
	5133 Dec 13 19:43	0°ਰ		evening rise	5134 Nov 26 03:16	13° х 29′52	
evening rise	5133 Dec 15 23:33	3° ₹ 23'04		<i>8</i> 11	5134 Dec 06 18:04	0°₹	
Č	5134 Jan 02 20:15	0° ≈			5134 Dec 29 08:26	0° ≈	
evening max el	5134 Jan 16 03:56	16° ≈ 53'11	21°36'42	evening max el	5134 Dec 29 20:32	0°≈30'50	22°54'56
retrograde	5134 Jan 25 04:06	22° ≈ 13'53		retrograde	5135 Jan 08 23:22	6°≈30'56	
asc. node	5134 Jan 26 22:54	21°≈56'52		evening set	5135 Jan 13 18:38	4°≈32'40	
evening set	5134 Jan 29 11:33	20°≈31'28		asc. node	5135 Jan 13 19:54	4° ≈ 30'01	
inferior conj	5134 Feb 03 19:38	14° ≈ 14'29	2°23'35		5135 Jan 17 19:18	30°Ŗ₹	
minimum elong	5134 Feb 03 17:14	14° ≈ 22'49	2°22'52	inferior conj	5135 Jan 19 03:42	28° ප් 08'59	1°42'49
min. Earth dist.	5134 Feb 03 23:40	14°≈00'32	0.68005 AU	minimum elong	5135 Jan 19 01:39	28° る 16'07	1°42'06
morning rise	5134 Feb 08 22:44	8° ≈ 02'31		min. Earth dist.	5135 Jan 18 20:15	28° る 34'45	0.68112 AU
direct	5134 Feb 13 23:49	5° ≈ 51'36		morning rise	5135 Jan 24 08:33	22° る 00'54	
morning max el	5134 Feb 24 01:31	11° ≈ 49'47	23°00'02	direct	5135 Jan 28 19:08	20°る12'52	
desc. node	5134 Mar 04 07:33	21° ≈ 31'38		morning max el	5135 Feb 06 15:14	25° る 21'30	21°34'16
	5134 Mar 10 12:58	0° ∀			5135 Feb 10 19:13	0° ≈	
	5134 Mar 30 01:54	$0^{\circ}\mathbf{\Upsilon}$		desc. node	5135 Feb 19 04:35	11° ≈ 05'29	
morning set	5134 Mar 30 15:37	0° Ƴ 56'54			5135 Mar 04 00:21	0°) €	
max. Earth dist.	5134 Apr 04 00:53	8° Ƴ 22'26	1.39768 AU	morning set	5135 Mar 10 12:23	10°) 08′28	
	•			max. Earth dist.	5135 Mar 17 01:17	20°) 44′05	1.41885 AU
superior conj	5134 Apr 11 18:21	22° Ƴ 07'39	-1°47'15		5135 Mar 22 13:20	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	5134 Apr 11 23:21	22° Ƴ 30'37	1°46'46				
_	5134 Apr 15 23:45	8°		superior conj	5135 Mar 24 14:26	3° Y 32'02	-2°04'30
evening rise	5134 Apr 21 10:23	10° 8 22'46		minimum elong	5135 Mar 24 17:46	3° Ƴ 46'32	2°04'22
asc. node	5134 Apr 24 22:09	17° 8 00'00		evening rise	5135 Apr 04 14:09	23° Y 14'47	
	5134 May 02 11:43	\mathfrak{I} 0°			5135 Apr 08 07:08	9° 8	
evening max el	5134 May 07 14:15	6° Ⅲ 22'32	18°31'19	asc. node	5135 Apr 11 19:11	6° 8 11'27	
retrograde	5134 May 15 06:24	10° II 10'00		evening max el	5135 Apr 20 23:45	19° 8 13'37	18°09'55
evening set	5134 May 17 12:29	9° Ⅱ 51'26		retrograde	5135 Apr 27 19:42	22° 8 40'54	
inferior conj	5134 May 25 02:31	5° Ⅲ 22'04	1°43'01	evening set	5135 Apr 30 08:36	22° 8 12'51	
minimum elong	5134 May 25 05:44	5° Ⅱ 15'44	1°42'00	inferior conj	5135 May 07 04:50	17° 8 22'39	2°45'38
min. Earth dist.	5134 May 28 12:03	2° Ⅱ 43'17	0.58014 AU	minimum elong	5135 May 07 08:05	17° 8 15'12	2°44'55
desc. node	5134 May 31 06:47	0° Ⅱ 50'01		min. Earth dist.	5135 May 10 12:44	14° 8 21'09	0.60178 AU
morning rise	5134 Jun 01 19:47	29° 8 59'25		morning rise	5135 May 14 05:08	11° 8 34'26	
	5134 Jun 01 19:19	30° ₹ 8		desc. node	5135 May 18 03:48	9° 8 51'10	
direct	5134 Jun 07 17:00	28° 8 31'06		direct	5135 May 20 18:01	9° 8 32'03	
	5134 Jun 13 17:59	Π $^{\circ}0$		morning max el	5135 Jun 04 01:55	17° 8 25'40	27°39'40
morning max el	5134 Jun 22 02:09	6° Ⅱ 10'11	26°49'24		5135 Jun 14 12:22	$\Pi^{\circ}0$	
	5134 Jul 09 17:41	0 \circ \odot			5135 Jul 02 08:12	0ಂತ	
morning set	5134 Jul 21 19:32	23° © 01'41		morning set	5135 Jul 06 02:05	7° 5 34'27	
asc. node	5134 Jul 21 21:23	23°©11'27		asc. node	5135 Jul 08 18:25	13° © 13'57	
	5134 Jul 25 01:29	$0^{\circ}\Omega$		max. Earth dist.	5135 Jul 12 08:50	21° © 03'42	1.31977 AU
superior conj	5134 Jul 28 19:36	8° Ω 15'51	1°06'44	superior conj	5135 Jul 13 06:59	23° © 05'37	
minimum elong	5134 Jul 28 17:20	8° Ω 03'17	1°06'20	minimum elong	5135 Jul 13 05:08	22° © 55'25	0°45'19
max. Earth dist.	5134 Jul 28 21:42	8° Ω 27'26	1.31979 AU		5135 Jul 16 10:11	$0^{\circ}\Omega$	
evening rise	5134 Aug 04 16:09	23° Ω 10′54		evening rise	5135 Jul 20 02:12	7° Ω 56'57	
	5134 Aug 07 23:33	0° m ∕			5135 Jul 31 11:55	0° т р	
	5134 Aug 25 19:10	0∘ ত		desc. node	5135 Aug 14 03:04	19° ™ 07'12	
desc. node	5134 Aug 27 06:03	1° ≙ 54'47		evening max el	5135 Aug 16 13:39	21° m 36'24	25°36'51
evening max el	5134 Sep 03 18:03	10° ≙ 20'02	26°45'04	retrograde	5135 Aug 30 12:26	28° m 41'44	
retrograde	5134 Sep 17 16:01	17° ≏ 29'23		evening set	5135 Sep 05 13:27	27° Mp 16'18	
evening set	5134 Sep 24 12:52	15° ≙ 29'07		min. Earth dist.	5135 Sep 10 01:36	24° m 38'45	
min. Earth dist.	5134 Sep 28 08:02	12° ≙ 52'30	0.60195 AU	inferior conj	5135 Sep 13 05:03	22° m 25'56	
inferior conj	5134 Oct 01 13:22	10° ≙ 15'32		minimum elong	5135 Sep 13 08:21	22° m/20'05	5°10'08
minimum elong	5134 Oct 01 19:26	10° ≙ 03'09	4°32'19	morning rise	5135 Sep 21 05:33	18° Mp 06'55	
morning rise	5134 Oct 09 04:02	5° ≙ 33'06		direct	5135 Sep 23 16:42	17° m 47'56	
direct	5134 Oct 11 11:56	5° ≙ 12'41		morning max el	5135 Oct 02 04:22	21° m 50'34	18°47'22

	5125 O-+ 04 17:20	2.49 m, 2.615.2			5126 8 07 04.56	00 m	
asc. node	5135 Oct 04 17:39 5135 Oct 08 14:32	24° Mp36'52 0° <u> </u>			5136 Sep 07 04:56	0° Т) 4° Т) 09'22	10947126
morning sat	5135 Oct 18 14:12	0 <u>≈</u> 18° Ω 06'22		morning max el asc. node	5136 Sep 13 23:06 5136 Sep 20 14:41	12° Mg 20'03	19 4/30
morning set	5135 Oct 18 14.12 5135 Oct 24 16:22	0°M		asc. node	5136 Sep 20 14.41 5136 Sep 30 10:17	0° ⊽	
	3133 Oct 24 10.22	O IIG		morning sot	5136 Oct 01 17:35	0 = 2° £ 37'19	
gunariar aani	5135 Oct 27 03:37	4° M .43'19	1°27'57	morning set	3130 Oct 01 17.33	2 = 3/19	
superior conj	5135 Oct 27 05:37 5135 Oct 27 06:42	4°M57'54	1°27'40	superior coni	5136 Oct 09 13:38	18° ≏ 28'01	1°39'50
minimum elong max. Earth dist.		17°M45'23	1.39387 AU	superior conj	5136 Oct 09 15:38 5136 Oct 09 15:12	18° £ 2801	1°39'45
	5135 Nov 03 06:19		1.3938/ AU	minimum elong max. Earth dist.		18 ≥ 33 44 29° ♀ 51'36	
evening rise	5135 Nov 07 05:16	24°M36'59		max. Earth dist.	5136 Oct 15 11:13		1.37300 AU
desc. node	5135 Nov 10 02:19	29°M26'12			5136 Oct 15 13:00	0°M,	
	5135 Nov 10 10:31	0° ∡		evening rise	5136 Oct 19 05:36	6°M45'33	
	5135 Nov 30 12:28	0°る	24014140	desc. node	5136 Oct 26 23:21	20°M00'46	
evening max el	5135 Dec 12 10:03	14° ろ 11'23	24°14'40		5136 Nov 02 07:22	0° ∡ 7	
retrograde	5135 Dec 23 15:14	20° ප් 46'13		evening max el	5136 Nov 23 22:34	27° ∡ ′54'58	25°29'07
evening set	5135 Dec 28 23:29	18° ろ 32'32			5136 Nov 26 04:41	0°ಕ	
asc. node	5135 Dec 31 16:55	15° る 41'30		retrograde	5136 Dec 06 02:44	4° る 55'09	
min. Earth dist.	5136 Jan 02 16:25	13° る 08'13	0.67848 AU	evening set	5136 Dec 12 00:28	2° る 28'01	
inferior conj	5136 Jan 03 10:52	12° る 06'06	0°55'03		5136 Dec 14 11:25	30°Ŗ ⋌ 7	
minimum elong	5136 Jan 03 09:36		0°54'34	min. Earth dist.	5136 Dec 16 09:58	27° ∡ ³38′04	0.67231 AU
morning rise	5136 Jan 08 19:48	6° る 03'37		inferior conj	5136 Dec 17 15:22	26° ∡ 03'33	0°01'14
direct	5136 Jan 12 16:48	4°る38'03		minimum elong	5136 Dec 17 15:20	26° х 03′40	0°01'13
morning max el	5136 Jan 20 12:13	9° ට 04'53	20°18'32	transit middle	5136 Dec 17 15:20	26° ₮ 03'40	0°01'13
	5136 Feb 05 08:02	0° ≈		transit begin	5136 Dec 17 12:33	26° ∡ 12'39	
desc. node	5136 Feb 06 01:35	1° ≈ 04'58		transit end	5136 Dec 17 18:08	25° ∡ 54'41	
morning set	5136 Feb 17 11:35	18° ≈ 24'23		asc. node	5136 Dec 17 13:56	26° ∡ ¹08'11	
	5136 Feb 24 21:11	0°) €		morning rise	5136 Dec 23 06:33	20° ∡ ¹08'37	
max. Earth dist.	5136 Feb 27 09:01	3°) 58′54	1.43644 AU	direct	5136 Dec 26 15:34	19° ∡ ¹03'00	
				morning max el	5137 Jan 02 17:07	22° ∡ 59′07	19°16'43
superior conj	5136 Mar 04 09:56	13°) 48'44	-2°08'22		5137 Jan 08 13:15	0°ರ	
minimum elong	5136 Mar 04 08:21	13°) 42′10	2°08'20	greatest brilliancy	5137 Jan 16 03:22	10° る 59'12	-0.7m
Z .	5136 Mar 13 23:37	$_{0}^{\circ}\Upsilon$		desc. node	5137 Jan 22 22:37	21° る 23'18	
evening rise	5136 Mar 17 00:58	5° Ƴ 18'14		morning set	5137 Jan 26 11:32	26° る 51'35	
asc. node	5136 Mar 28 16:13	24° Ƴ 53'57		8	5137 Jan 28 12:07	0° ≈	
	5136 Apr 01 08:31	0°8		max. Earth dist.	5137 Feb 08 23:02		1.44835 AU
evening max el	5136 Apr 03 12:14	2° 8 24'27	18°07'58	max. Bartii dist.	3137100 00 23.02	17.00112	1.11033710
retrograde	5136 Apr 09 23:07	5° 8 46'42	10 07 50	superior conj	5137 Feb 12 04:43	23° ≈ 01'39	-1°53'42
evening set	5136 Apr 12 18:19	5° 8 07'28		minimum elong	5137 Feb 11 21:00	22° ≈ 31'00	
evening set	5136 Apr 18 23:47	30°RY		minimum ciong	5137 Feb 16 13:21	0° ∀	1 33 10
inferior conj	5136 Apr 19 00:43	29° Y 57'33	3°20'12	evening rise	5137 Feb 26 14:38	16° ¥ 25'57	
minimum elong	5136 Apr 19 00:45	29° Υ 52'37	3°19'58	evening rise	5137 Mar 06 19:47	0° Υ	
min. Earth dist.	5136 Apr 21 21:55	26° Y 57'42	0.62352 AU	asc. node	5137 Mar 15 13:15	12° Υ '58'50	
	=	23° Y 53'56	0.02332 AU		5137 Mar 18 00:49	12 γ 38 30 15° Υ 48'01	18°24'44
morning rise direct	5136 Apr 25 09:21	23° $\gamma 23'12$		evening max el retrograde	5137 Mar 24 12:07	19° Υ 18'33	10 24 44
desc. node	5136 May 02 05:23	21° Y $32'59$		Č		19 1 18 33 18° Υ 26'58	
	5136 May 04 00:50	29° Y 23'40	27°52'27	evening set	5137 Mar 27 13:36		3°32'41
morning max el	5136 May 16 07:40		21-3221	inferior conj	5137 Apr 02 10:03		
	5136 May 16 22:01	8°0		minimum elong	5137 Apr 02 10:18	12° Υ 58'01	3°32'40
	5136 Jun 07 10:57	0°II		min. Earth dist.	5137 Apr 04 16:27	10° Υ 21'04	0.64300 AU
morning set	5136 Jun 19 03:16	21° Ⅱ 48'37		morning rise	5137 Apr 08 06:12	6° ℃ 47'33	
The state of	5136 Jun 23 01:52	0₀æ	1 22205 111	direct	5137 Apr 15 01:09	4°Υ00'30	
max. Earth dist.	5136 Jun 24 16:26	3°526'11	1.32395 AU	desc. node	5137 Apr 20 21:52	5°Υ43'46	27020111
asc. node	5136 Jun 24 15:28	3° © 20'55		morning max el	5137 Apr 28 16:49	11° Υ 57'40	27°28'44
					5137 May 13 01:20	0° 8	
superior conj	5136 Jun 26 16:19	7° 5 45'19	0°21'05		5137 May 30 22:51	0°П	
minimum elong	5136 Jun 26 15:20	7° 5 40'01	0°20'52	morning set	5137 Jun 02 20:30	5° Ⅲ 36′05	
evening rise	5136 Jul 03 13:52	22° © 44'29		max. Earth dist.	5137 Jun 07 16:28	15° Ⅱ 22'40	1.33265 AU
	5136 Jul 07 01:31	$0^{\circ}\Omega$					
_	5136 Jul 25 23:43	0° m		superior conj	5137 Jun 10 21:39	22° Ⅱ 08'50	
evening max el	5136 Jul 28 03:01	2°Mp11'48	24°06'26	minimum elong	5137 Jun 10 21:59	22° Ⅲ 10'35	0°06'23
desc. node	5136 Jul 31 00:05	4° Mp 43'03		behind sun begin	5137 Jun 10 16:58	21° Ⅱ 43'52	
retrograde	5136 Aug 10 21:44	9° ™ 07'59		behind sun end	5137 Jun 11 03:00	22° I I37'20	
evening set	5136 Aug 15 13:53	8° m 19'35		asc. node	5137 Jun 11 12:31	23° Ⅱ 28′04	
min. Earth dist.	5136 Aug 21 13:37		0.56338 AU		5137 Jun 14 13:34	0 \circ \odot	
inferior conj	5136 Aug 24 00:35	3° m 51'13		evening rise	5137 Jun 18 01:20	7° © 27'14	
minimum elong	5136 Aug 23 21:59	3°M 55'16	5°13'50		5137 Jun 29 23:23	0 ° Ω	
	5136 Aug 31 20:28	30° R Ω		evening max el	5137 Jul 09 16:41	12° Ω 33′13	22°28'53
morning rise	5136 Sep 01 08:36	29° Ω 52′23		desc. node	5137 Jul 17 21:07	18° Ω 08'06	
direct	5136 Sep 04 02:02	29° Ω 33′00		retrograde	5137 Jul 22 18:28	19° Ω 03'17	

. ,	5127 1 1 25 22 24	100 0 41115			5120 T. L. O. 511.24	2006/47112	
evening set	5137 Jul 25 22:24	18° Ω 41'15		evening set	5138 Jul 05 11:24	28°547'12	
min. Earth dist.	5137 Aug 02 23:53		0.55134 AU	inferior conj	5138 Jul 14 19:24	24° © 49'51	
inferior conj	5137 Aug 04 02:13	14° £ 33′03		minimum elong	5138 Jul 14 11:36	25°500'51	2°52'16
minimum elong	5137 Aug 03 18:06	14° Ω 44'35	4°27'15	min. Earth dist.	5138 Jul 15 10:37	24° © 28'22	0.54803 AU
morning rise	5137 Aug 12 15:43	10° Ω 43'05		morning rise	5138 Jul 23 11:53	20° © 50'37	
direct	5137 Aug 15 18:13	10° Ω 21′08		direct	5138 Jul 27 03:28	20° © 21'59	
morning max el	5137 Aug 27 05:41	15° Ω 42'15	21°08'59	morning max el	5138 Aug 09 01:25	26° © 32'02	22°46'58
asc. node	5137 Sep 07 11:45	0° ™ 48'29			5138 Aug 12 09:23	$0 {\circ} \Omega$	
	5137 Sep 07 00:24	O° Mp		asc. node	5138 Aug 25 08:50	19° Ω 51'17	
morning set	5137 Sep 16 01:42	17° m 21'13			5138 Aug 30 11:12	0° m y	
	5137 Sep 22 02:49	0∘ ত		morning set	5138 Aug 31 12:32	2° Mp 12'27	
	-			_			
superior conj	5137 Sep 23 10:18	2° - 43′23	1°43'31	superior conj	5138 Sep 07 14:16	17° m) 19'39	1°40'17
minimum elong	5137 Sep 23 10:20	2° £ 43'33	1°43'31	minimum elong	5138 Sep 07 13:05	17° m) 13'20	1°40'14
max. Earth dist.	5137 Sep 27 20:50	11° ≏ 43'21	1.35436 AU	max. Earth dist.	5138 Sep 10 15:06	23° m 43'46	1.33932 AU
evening rise	5137 Oct 02 00:34	19° £ 45'31			5138 Sep 13 16:34	0∘ ⊽	
evening rise	5137 Oct 07 15:59	0°M		evening rise	5138 Sep 15 09:55	ა _ 3° ჲ 25'43	
desc. node	5137 Oct 07 13:33 5137 Oct 13 20:23	10°M21'48		evening rise	5138 Sep 30 11:31	0° M	
desc. Hode	5137 Oct 13 20:23 5137 Oct 27 08:07	10 11621 48 0° 🔏		daga mada	-		
			26920154	desc. node	5138 Sep 30 17:24	0°M22'57	27012120
evening max el	5137 Nov 06 11:20	11° 🖈 36'59	26°30'54	evening max el	5138 Oct 20 00:05	25°M08'28	27°12'30
retrograde	5137 Nov 19 09:03	18° ∡ 50'49 −			5138 Oct 26 02:14	0° ∡ ¹	
evening set	5137 Nov 25 19:41	16° ⊀ 14'12		retrograde	5138 Nov 02 09:22	2° ∡ ¹26'11	
min. Earth dist.	5137 Nov 29 22:30	11° ₹ 59'25	0.66264 AU		5138 Nov 08 23:40	30°RM₊	
inferior conj	5137 Dec 01 15:14	9° ₹ 56'52	-0°57'41	evening set	5138 Nov 09 06:53	29° ™ 46'17	
minimum elong	5137 Dec 01 16:50	9° ₰ 52'04	0°57'00	min. Earth dist.	5138 Nov 13 03:36	26°M₀06′36	0.64952 AU
asc. node	5137 Dec 04 10:59	6° ∡ ¹44′20		inferior conj	5138 Nov 15 08:14	23° M 41'24	-2°00'08
morning rise	5137 Dec 07 14:40	4° ∡ 12'07		minimum elong	5138 Nov 15 11:42	23°MJ31'48	1°58'44
direct	5137 Dec 10 13:42	3° ∡ ¹22'51		asc. node	5138 Nov 21 08:03	18° ™ 21'42	
morning max el	5137 Dec 17 04:34	6° х 759′12	18°30'44	morning rise	5138 Nov 21 17:39	18° ™ 09'54	
Č	5138 Jan 02 08:00	ರ°0		direct	5138 Nov 24 08:55	17° M 33'11	
morning set	5138 Jan 06 10:32	6° る 32'09		morning max el	5138 Nov 30 20:09	20°M59'33	18°01'29
desc. node	5138 Jan 09 19:39	11° る 54'37		morning max or	5138 Dec 07 18:14	0° √	10 012)
desc. Hode	5138 Jan 21 07:02	0°≈		morning set	5138 Dec 07 18:14 5138 Dec 18 15:10	17° × 741'13	
	5156 Jan 21 07.02	0 ~		morning set	5138 Dec 16 13:10 5138 Dec 26 02:34	0°る	
	5120 I 22 00.21	192015 4	1010/52	11-		0 3 2° る 34'38	
superior conj	5138 Jan 22 08:31	1°≈39'54		desc. node	5138 Dec 27 16:39	2°634'38	
minimum elong	5138 Jan 21 23:29		1°18'52		5120 Y 01 16 52	100705110	002.421
max. Earth dist.	5138 Jan 22 17:17	2°≈14'15	1.45324 AU	superior conj	5139 Jan 01 16:52	10° る 37'13	
evening rise	5138 Feb 07 04:58	26° ≈ 36'48		minimum elong	5139 Jan 01 12:40	10° る 20'27	
	5138 Feb 09 08:13	0° ∀		max. Earth dist.	5139 Jan 05 12:59		1.45069 AU
greatest brilliancy	5138 Feb 16 11:45	11° ∺ 18′07	-0.8m		5139 Jan 14 01:23	0° ≈	
evening max el	5138 Mar 01 11:01	29° ∺ 18'37	18°59'19	evening rise	5139 Jan 17 23:24	6° ≈ 03'31	
asc. node	5138 Mar 02 10:17	0° Ƴ 14'53		greatest brilliancy	5139 Jan 31 20:07	27° ≈ 10′18	-0.7m
	5138 Mar 02 03:52	0 ° $\mathbf{\Upsilon}$			5139 Feb 02 18:21	0° ∀	
retrograde	5138 Mar 08 06:57	3° Ƴ 09'08		evening max el	5139 Feb 12 16:50	12°) 51′32	19°50'08
evening set	5138 Mar 11 15:16	2° Ƴ 04'18		asc. node	5139 Feb 17 07:19	16°) €27'54	
	5138 Mar 14 02:00	30° ₹		retrograde	5139 Feb 20 04:39	17° ¥ 12'08	
inferior conj	5138 Mar 17 05:06	26°) 19′23	3°28'24	evening set	5139 Feb 23 20:50	15° ¥ 53'11	
minimum elong	5138 Mar 17 04:00	26°) 22'51	3°28'18	inferior conj	5139 Mar 01 06:44	9° ¥ 53'31	3°11'10
min. Earth dist.	5138 Mar 18 19:55	24° ℋ 17'09	0.65877 AU	minimum elong	5139 Mar 01 04:45	10°) 00′10	3°10'48
morning rise	5138 Mar 22 16:20	20°) (05'14		min. Earth dist.	5139 Mar 02 06:52	8° ¥ 33'04	0.67031 AU
direct	5138 Mar 29 03:42	17°) 15'44		morning rise	5139 Mar 06 12:27	3° ¥ 38'57	0.07031710
desc. node	5138 Apr 07 18:55	21° H 50'40		direct	5139 Mar 10 12:27 5139 Mar 12 11:55	0° ¥ 58'46	
	•		26924120				25010155
morning max el	5138 Apr 11 02:47	24°) 56'33	26°34'39	morning max el	5139 Mar 24 11:58	8°) €08'58	25°18'55
	5138 Apr 15 16:55	0° Υ		desc. node	5139 Mar 25 15:56	9°) €21'30	
	5138 May 06 12:22	0°8			5139 Apr 10 14:32	0° Y	
morning set	5138 May 17 02:25	18° 8 47'10			5139 Apr 29 01:14	0°8	
max. Earth dist.	5138 May 21 06:00	26° 8 49'05	1.34608 AU	morning set	5139 Apr 29 16:24	1° 8 08'10	
	5138 May 22 20:15	Π $^{\circ}0$		max. Earth dist.	5139 May 03 08:40	7° 8 53'57	1.36395 AU
superior conj	5138 May 25 20:47	6° Ⅱ 09'47	-0°35'49	superior conj	5139 May 09 10:46	19° 8 39'19	-1°05'34
minimum elong	5138 May 25 22:43	6° Ⅱ 19'49	0°35'25	minimum elong	5139 May 09 14:24	19° 8 57'22	
asc. node	5138 May 29 09:34	13° Ⅱ 31'34		3	5139 May 14 14:00	0°II	
evening rise	5138 Jun 02 10:38	21° ∏ 59'25		asc. node	5139 May 16 06:36	3° Ⅱ 26'34	
	5138 Jun 06 09:21	0°95		evening rise	5139 May 17 15:31	6° П 13'28	
evening max el		· -		- 1 - 11111 E 1100	11.01 11 10.01	U 11 1 J 2 O	
CYCHILLE HIGH CI		23.0213.146	20°58'57	•	5139 May 31 02-47	0ءوں	
•	5138 Jun 21 14:37	23°©13'46	20°58'57	-	5139 May 31 02:47	0°99 4°9932'10	10045142
retrograde	5138 Jun 21 14:37 5138 Jul 03 07:03	28° © 58'25	20°58'57	evening max el	5139 Jun 04 00:43	4° © 32'19	19°45'43
•	5138 Jun 21 14:37		20°58'57	-	•		19°45'43

Section Sect		5120 I 15 21.52	00614121			5140 Mars 25, 07.50	200Д20142	
Infection	evening set	5139 Jun 15 21:53	9°5014'31		retrograde	5140 May 25 07:58	20° Ⅱ 39'42	
minimarhander 1939 m. 24 1577 1978 m. 19				0056101	-			0052120
min. Earth dist. 5139 Jul 30 7.82 Jul 37 587 58 0954144 5900179 5583 Jul 20 17 182 58 0954144 5900179 5583 Jul 20 17 182 58 0950179 670 Jul 20 17 182 58 09501	,							
	•				_			
memiry 1519 ph 07 1808 0.920 170 171				0.55433 AU				0.56899 AU
Marcing mane \$19 May 10 \$150 \$60 \$60 \$70	•							
Signature Sign					=			
ase, neded 519 Aug 12 0552 97,41850 see nede 5140 Jul 20 073 0°G 100 Jul 20 1000 0°G 100 Jul 20 1000 0°G	morning max el			24°31'03				
moming set 519 Aug 15 0.038 17-200-21 17-200-21 18-10-10-10-10-10-10-10-10-10-10-10-10-10-					morning max el	5140 Jul 02 06:16		26°05'33
of 19 Aug 21 23:22 O"By 54 July 20 13:32 O"G 17 July 20 13:32 O"G 18 July 20 13:33 O"G </td <td>asc. node</td> <td>Č</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	asc. node	Č						
1906 1906 1906 1906 1906 1907	morning set	5139 Aug 16 00:18			asc. node			
superior coriginismum elong 519 Aug 22 2253 2°B0816 12°B11 superior corigin 5140 Aug 06 1001 17°A0222 1°18'08' max. Farth dist 5139 Aug 30 0548 6°B0106 1.32837 AU max. Earth dist 5140 Aug 06 0073 16°L04941 1°16'38 cerning rise 5139 Sep 05 1504 0°C starth dist 5140 Aug 12 00°18 18°£02133 1.32168 AU deen ode 5139 Sep 16 1242 0°P34258 0°C starth dist 5140 Aug 13 00°107 2°B0515 evening max 5139 Ox 10 2100 8°B11649 2°P2151 desc. node 5140 Sep 23 11.28 8°B4820 evening at max 5139 Ox 12 20710 12°B18325 desc. node 5140 Sep 23 11.49 8°B0056 inforitor corigin 5139 Ox 12 20710 12°B18324 desc. node 5140 Ox 12 16.42 2°B0056 inforitor corigin 5139 Ox 20 20754 7°B11174 -303355 minimum elong 5140 Ox 12 16.42 2°B0056 inforitor corigin 5139 Ox 70 22524 7°B1174 -303355 minimum elong 5140 Ox 12 16.02 2°B0053 <td< td=""><td></td><td>5139 Aug 21 23:22</td><td>0° my</td><td></td><td></td><td>5140 Jul 29 13:32</td><td></td><td></td></td<>		5139 Aug 21 23:22	0° m y			5140 Jul 29 13:32		
minimace denial 519 Aug. 22 20:54 1 "β973"0 12909 supprior conj 5140 Aug. 6 10:01 117/10/22 117/10/20 11					morning set	5140 Jul 30 11:22	1° Ω 54'51	
max. Earth dist. 5130 Aug 9 04 1748 6"β0106 of 5190 Aug 9 06.548 1"Pin S191 1.58 Aug 90 07.252 18/20/201 12/108 Aug 17.243 1.216 Aug 18.09 07.252 18/20/201 1.216 Aug 18.09 07.252 18/20 Aug 18.00 07.252 18/2	superior conj	•		1°31'11				
evening rise 5139 Nag 19 0 548 7°93517 7°126 7°124	minimum elong	5139 Aug 22 20:54	1° m ,57'30	1°30'59		•		
1988 1989 1984	max. Earth dist.	5139 Aug 24 17:48		1.32837 AU	minimum elong	5140 Aug 06 07:43		1°16'38
Second 198 kg 17 1426 194	evening rise	5139 Aug 30 05:48	17° Mp 35'17		max. Earth dist.	5140 Aug 07 02:25	18° Ω 32'43	1.32168 AU
140		5139 Sep 05 15:04	0∘ ⊽			5140 Aug 12 09:18	0° m y	
Persing maxe 1319 Oct 16 15 15 15 15 15 15 15	desc. node	5139 Sep 17 14:26	19° ≙ 55'50		evening rise	5140 Aug 13 09:07	2° My 05'05	
Performance 1519 Oct 16 0320 15 m3.256 cevening sex 5149 Oct 16 0320 27 0074 27 0075 cevening sex 5139 Oct 26 2311 57 0075 7 0075 17 007		5139 Sep 24 23:08	0°M			5140 Aug 28 12:36	0∘ ⊽	
Permin Sert 151 Oct 23 07:10 12°E,8580 retrograde 5140 Sep 27 14:19 28°40/956 retroin Sertion Side 5139 Oct 26 15:42 9°E,8514 0°E,8514	evening max el	5139 Oct 02 11:00	8° ጤ 16'40	27°27'15	desc. node	5140 Sep 03 11:28	8° ≏ 48'20	
min Earth disk. 513 9 Oct 2 9 21:42 9°RL51'L1 063303 AU evening set inferior conj 5140 Oct 1 80 80:80 25° Δ0037 06137 AU minimum conj 5139 Nov 2 15:22 1°RL5820 3°01'43 minic Earth disk. 5140 Oct 1 11 16:45 20° Δ0037 06137 AU morning rise 5139 Nov 0 5 12:22 1°RL5820 3°01'43 minimum conj 5140 Oct 1 11 16:45 20° Δ0034 3 4°01'51 asc. node 5139 Nov 0 0 20:16 1°RL3834 17*492 acc. node 5140 Oct 2 10:22 15° Δ0038 3 1°80 SU morning max el 5139 Nov 30 20:16 0°R'0412 3 1°140 SU 5140 Nov 2 20:02 16° Δ0913 3 1°75 CH superior conj 5139 Doc 13 00:05 20° R'4023 0°11'22 morning set 5140 Nov 2 20:35 0°R'3 1°80 SU superior conj 5139 Doc 13 00:05 20° R'40'23 0°11'22 superior conj 5140 Nov 2 20:35 0°R'3 1°80 CU superior conj 5139 Doc 13 00:05 20° R'40'23 0°1'12 superior conj 5140 Nov 2 00:24 2° R'30'15 0°4'92'10 destinda sun met 5139 Doc 18 16:13 0°° R'31'12'13'13'13'13'13'13'13'13'13'13'13'1	retrograde	5139 Oct 16 03:20	15°M32'56		evening max el	5140 Sep 13 17:40	20° ≏ 48'13	27°10'04
inferior conj S139 Oct 29 15:42 7°IL1107 -3'03'35 miin. Earth dist S140 Oct 08 08:09 23° Δ0037 Oct 37 AU minimum elong S139 Oct 29 10°S 6°IL8500 3'01'43 minimum elong S140 Oct 11 10:27 20°L4734 4'03'34 4'01'51 4'03'44 4'01'51 4'03'44 4'01'51 4'03'44 4'01'51 4'03'44 4'03'54 4'01'51 4'03'44 4'03'54 4'01'51 4'03'44 4'03'54 4'01'51 4'03'44 4'03'54 4'01'51 4'03'44 4'03'54 4'01'51 4'03'44 4'03'54 4'	evening set	5139 Oct 23 07:10	12°M58'50		retrograde	5140 Sep 27 14:19	28° ഫ 00'56	
minimum elong 519 Oct 29 20.59 6°R.5800 3°0143 minfarior conj 5140 Oct 11 10.27 20° Δ1734 4°0334 moning rise 5139 Nov 05 12.22 1°RL2874 minimum elong 5140 Oct 11 16.45 5° Δ2250 8°C. node 5139 Nov 08 05.06 1°RL2875 direct 5140 Oct 21 02.22 15° Δ2003 moning mast 5139 Nov 14 13.03 4°RL5345 7*4942 sac. node 5140 Oct 21 02.22 15° Δ2003 moning set 5139 Nov 30 20.16 0° χ°0412 moning max el 5139 Nov 05 10.37 0°RL 15° Δ2003 moning set 5139 Nov 30 20.16 0° χ°0412 moning set 5140 Nov 12 02.15 13°RL203 moning set 5139 Nov 30 20.18 0° χ°0412 moning set 5140 Nov 12 02.15 13°RL203 moning set 5139 Nov 12 02.16 0° χ°0412 0° 1113 moning set 5139 Dec 12 00.05 20° χ°4023 0°1123 moning set 5139 Dec 13 00.05 20° χ°4023 0°1123 0° χ°04 0° χ°0412 0° χ°	min. Earth dist.	5139 Oct 26 23:11	9° M 51'14	0.63303 AU	evening set	5140 Oct 04 16:42	25° ≏ 44'28	
minimum clong 5140 Nov 15 12.22 1°H.5674 moming rise 5140 Oct 11 16.45 15°A 02.50 1°H.02874 moming rise 5140 Oct 12 10.22 15°A 00.78 1°H.02874 moming rise 5140 Oct 12 10.22 15°A 00.78 1°H.02874 moming max el 5139 Nov 14 130 02 116 0°P.04712 moming max el 5139 Nov 30 21.16 0°P.04712 moming max el 5139 Nov 30 21.16 0°P.04712 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.0618 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.0618 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.0618 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.0618 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.0618 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.0618 moming max el 5140 Nov 12 02.15 13°B 00.07 1°F.07	inferior conj	5139 Oct 29 15:42	7° ጤ 11'07	-3°03'35	min. Earth dist.	5140 Oct 08 08:09	23° ≙ 00'37	0.61375 AU
direct 5139 Nov 08 05:06 1°PL2857 direct 5140 Oct 21 0:22.2 1°S-20308	minimum elong	5139 Oct 29 20:59	6°M58′00	3°01'43	inferior conj	5140 Oct 11 10:27	20° ≙ 17'34	-4°03'34
asc node 5139 Nov 98 05/06 (1972) 1978/257 (1974) direct 5140 Oct 2 1 0.22 (2) 15% Δ078 (1974) 16% Δ071 (1974) 16% Δ071 (1974) 16% Δ071 (1974) 178 Δ078 (morning rise	5139 Nov 05 12:22	1°M56'24		minimum elong	5140 Oct 11 16:45	20° ≙ 03'43	4°01'51
asc node 5139 Nov 98 05/06 (1972) 1978/257 (1974) direct 5140 Oct 2 1 0.22 (2) 15% Δ078 (1974) 16% Δ071 (1974) 16% Δ071 (1974) 16% Δ071 (1974) 178 Δ078 (direct	5139 Nov 07 22:22	1°M28'34		morning rise	5140 Oct 18 18:46	15° ≏ 22'50	
morning set 5139 Nov 30 21:16 0° 20° 12 morning max el 5140 Nov 05 10:37 0° 20° 13 7° 56° 18 superior conj 5139 Nov 30 20:18 0° 20° 12 morning set 5140 Nov 05 10:37 0° 10 "Illa Nov 05 10:37 0° 10	asc. node	5139 Nov 08 05:06	1° M 28'57		-	5140 Oct 21 02:22	15° ഫ 00'38	
momining set 5139 Nov 30 21:16 0°2/04*12 momining max el 5140 Nov 05 10:37 0°1/10 17°56*18 superior conj 5139 Nov 30 20:18 0°2/10 momining set 5140 Nov 05 10:37 0°1/10 18°1/10 0°1/10 0°1/10 0°1/10 18°1/10 18°1/10 0°1/10 18°1/10 18°1/10 0°1/10 18°1/10 18°1/10 0°1/10 18°1/10 18°1/10 0°1/10 0°1/10 18°1/10 18°1/10 0°1/10 0°1/10 0°1/10 18°1/10 0°1/10 0°2/10 0°1/10	morning max el	5139 Nov 14 13:03	4°M53'45	17°49'42	asc. node	5140 Oct 25 02:07	16° ≏ 09'13	
superior conj 5139 Nov 30 20:18 0°₹ temning set 5140 Nov 05 10:37 0°RL 13 minoring set superior conj 5139 Dec 12 22:54 20°₹4023 0°11'22 140 Nov 22 03:51 0°₹ 140 Nov 23 07:29 150 Nov 23 07:29 150 Nov 23 07:29 150 Nov 23 07:29 2°₹00'51 0°49'20 behind sun begin 5139 Dec 13 06:57 21°₹1337 minimum elong 5140 Nov 23 07:29 2°₹00'70 0°48'50 desc. node 5139 Dec 18 16:13 0°5 max. Earth dist. 5140 Nov 30 10:41 4°₹04'70 0°48'20 max. Earth dist. 5139 Dec 18 16:13 0°5 max. Earth dist. 5140 Nov 30 10:41 4°₹04'81 1.42551 NO evening rise 5139 Dec 18 06:43 0°5 1415 SAU evening rise 5140 Dec 10 09:10 0°₹ 1.42551 NO evening rise 5140 Jan 07 02:41 0°8 2540 SAU 20°54'42 evening rise 5140 Dec 10 09:10 0°% 22°90'24 evening max el 5140 Feb 04 02:53 11 °¥23'27 asc. node 5141 Jan 03 10 230 0°% 22°09'24	•	5139 Nov 30 21:16	0° ∡ ¹04'12		morning max el	5140 Oct 28 04:01	18° ≏ 33'17	17°56'18
Superior conj 5139 Dec 12 22:54 20° X 4023 0°11'22 5140 Nov 22 03:51 0° X	Č	5139 Nov 30 20:18	0° ∡ ¹		C	5140 Nov 05 10:37	0° M .	
Superior conj 5139 Dec 12 22:54 20°\$\frac{3}{200}\$ 0°\$\frac{1}{2}\$ 0°\$\frac{3}{2}\$ 10°\$\frac{3}{2}\$ 1					morning set	5140 Nov 12 22:15	13°M20'38	
behind sun begin 5139 Dec 13 00.05 20°×45′16 0°11′13 20°×45′16 0°11′13 20°×40′16′52 5139 Dec 13 06.75 21°×41′33′3 5140 Nov 23 01′24 2°×41′701 0°48′50 468°c. node 5140 Nov 30 10.41 14°×70′70′7 648′50 468°c. node 5140 Nov 30 10.41 14°×70′70′7 648′50	superior conj	5139 Dec 12 22:54	20° х 40′23	0°11'22	C	5140 Nov 22 03:51	0° ∡ ¹	
behind sun begin 5139 Dec 12 17:14 20°×10'52 minimum clong 5140 Nov 23 07:29 2°×00'51 0°49'20 0°48'50 0°49'20 0°48'50 0°48		5139 Dec 13 00:05	20° ∡ ¹45'16	0°11'13				
behind sun end 6139 Dec 13 06:57 21° x1337 minimum elong 5140 Nov 23 11:12 2° x1701 0°48*50 desc. node 5139 Dec 14 13:40 2° x72004 desc. node 5140 Nov 30 10:41 14° x70707 14° x74071	•				superior coni	5140 Nov 23 07:29	2° ∡ 100'51	0°49'20
desc. node	•		21° × 13'37					
max. Earth dist. 5139 Dec 18 16:13 0°B max. Earth dist. 5140 Nov 30 19:50 14° ¾45'51 1.42551 AU evening rise 5139 Dec 28 09:28 15° B1632 evening rise 5140 Dec 10 09:10 0°B 24° ₹54'08 <td>desc. node</td> <td>5139 Dec 14 13:40</td> <td></td> <td></td> <td>Č</td> <td>5140 Nov 30 10:41</td> <td>14°∡°07'07</td> <td></td>	desc. node	5139 Dec 14 13:40			Č	5140 Nov 30 10:41	14° ∡ °07'07	
max. Earth dist. 5139 Dec 19 06:44 cevening rise 0°B58'13 l.44105 AU cevening rise 5140 Dec 07 02:56 log-20 log-28		5139 Dec 18 16:13					14° ∡ 744'51	1.42551 AU
evening rise 5139 Dec 28 09:28 15°G16'32 s140 Jan 07 02:41 0°æ 5140 Jan 07 02:41 0°æ 5140 Jan 07 02:41 0°æ 5140 Jan 07 02:41 0°æ s140 Jan 26 17:11 0°æ s140 Jan 30 2:00 0°H evening max el 5141 Jan 10 2:00 10°æ00'24 22°09'24 retrograde 5140 Feb 04 04:25 1°H23'28 asc. node 5141 Jan 17 23:44 15°æ38'49 15°æ38'49 evening set 5140 Feb 04 04:22 1°H23'27 evening set 5141 Jan 27 10:15 1°æ49'01 2°07'12 evening set 5140 Feb 08 04:19 2°9æ49'43 minimum elong 5141 Jan 27 17:57 7°æ37'10 2°07'12 evening set 5140 Feb 13 10:07 23°æ49'43 minimum elong 5141 Feb 13 10:07 23°æ49'13 minimum elong 5141 Feb 13 10:07 23°æ40'11 0.67761 AU 5141 Feb 01 23:48 1°æ3'23 0.68090 AU minimum elong 5140 Feb 13 10:07 23°æ40'11 0.67761 AU 5141 Feb 01 23:48 1°æ3'82'5 1°æ3'82'5 4°æ5'82'3 1°æ8'82'5 1°æ8'82'5 1°æ8'82'5 2°æ5'81'14 5141 Feb 01 23:48	max. Earth dist.	5139 Dec 19 06:44		1.44105 AU				
S140 Jan 07 02:41 0° 0° 20° 20° 54'42 evening max el 5141 Jan 08 12:09 10° 0° 0° 22° 09'24					3			
evening max el 5140 Jan 26 17:11 26°≈25'24 20°54'42 evening max el 5141 Jan 08 12:09 10°≈00'24 22°09'24 retrograde 5140 Fab 04 02:53 1°¥23'28 asc. node 5141 Jan 21 01:23 14°≈49'01 asc. node 5140 Fab 04 04:22 1°¥23'27 evening set 5141 Jan 22 11:58 13°≈49'40 evening set 5140 Feb 07 02:52 30°≈ 10°≈32'75 evening set 5141 Jan 27 10:16 7°≈29'07 2°07'12 evening set 5140 Feb 08 04:19 20°≈49'43 minimum elong 5141 Jan 27 10:16 7°≈29'07 2°07'12 inferior conj 5140 Feb 13 12:30 23°≈37'56 2°43'31 minimum elong 5141 Feb 01 23:48 1°≈82'31 0.68090 AU minimum elong 5140 Feb 13 10:07 23°≈46'10 2°42'55 morning rise 5141 Feb 01 23:48 1°≈82'31 0.68090 AU morning rise 5140 Feb 13 13:00 23°≈46'10 2°42'55 morning rise 5141 Feb 01 23:48 1°≈82'51'11 3°%8'5 morning rise 5140 Feb 13 10:56 10°×24'32 3°×51'14 6°×52'14<	<i>5</i>		0° ≈					
Fetrograde 5140 Jan 30 23:00 0°\(\)	evening max el			20°54'42	evening max el			22°09'24
retrograde				_, _, _	•			
asc. node	retrograde				•			
evening set 5140 Feb 07 22:52 30°R≈ inferior conj 5141 Jan 27 20:16 7°≈29'07 2°07'12 evening set 5140 Feb 08 04:19 29°≈49'43 minimum elong 5141 Jan 27 17:57 7°≈37'10 2°06'27 inferior conj 5140 Feb 13 12:30 23°≈37'56 2°43'31 min. Earth dist. 5141 Jan 27 19:18 7°≈32'31 0.68090 AU minimum elong 5140 Feb 13 10:07 23°≈46'10 2°42'55 morning rise 5141 Feb 01 23:48 1°≈18'25 min. Earth dist. 5140 Feb 13 15:46 17°≈24'32 direct 5141 Feb 03 21:41 30°₹ 29°₹17'14 direct 5140 Feb 18 15:46 17°≈24'32 direct 5141 Feb 06 18:32 29°₹17'14 direct 5140 Feb 24 01:08 15°≈01'43 5141 Feb 09 20:24 0°≈ morning max el 5140 Mar 05 20:43 21°≈28'44 23°51'36 morning max el 5140 Mar 11 12:56 27°≈52'40 desc. node 5141 Feb 16 07:32 4°≈54'31 22°22'40 desc. node 5140 Mar 13 05:43 0°¥ 5140 Apr 02 21:07 0°Ŷ morning set 5140 Apr 10 08:52 12°°Y24'27 5141 Mar 07 12:07 0°¥ 5140 Apr 20 04:29 0°∀	•							
evening set 5140 Feb 08 04:19 29°≈49'43 minimum elong 5141 Jan 27 17:57 7°≈37'10 2°06'27 inferior conj 5140 Feb 13 12:30 23°≈45'10 2°42'55 morning rise 5141 Feb 01 23:48 1°≈18'25 min. Earth dist. 5140 Feb 13 10:07 23°≈46'10 2°42'55 morning rise 5141 Feb 01 23:48 1°≈18'25 morning rise 5140 Feb 13 23:26 23°≈00'17 0.67761 AU 5141 Feb 03 21:41 30°R morning rise 5140 Feb 18 15:46 17°≈24'32 direct 5141 Feb 03 21:41 30°R morning max el 5140 Feb 18 15:46 17°≈24'32 direct 5141 Feb 09 20:24 0°≈ morning max el 5140 Mar 05 20:43 21°≈28'44 23°51'36 morning max el 5141 Feb 16 07:32 4°≈54'31 22°22'40 desc. node 5141 Mar 07 12:07 0° morning set 5140 Apr 10 08:52 12°°Y24'27 morning set 5140 Apr 10 08:52 12°°Y24'27 max. Earth dist. 5140 Apr 14 04:39 19°Y04'24 1.38497 AU max. Earth dist. 5141 Apr 03 20:11 14°Y26'37 -1°55'51 superior conj 5140 Apr 21 12:04 2°∀28'34 -1°33'23 minimum elong 5140 Apr 21 16:56 2°∀51'36 1°32'46 evening rise 5140 Apr 10 08:52 2°∀51'36 1°32'46 evening rise 5140 Apr 10 08:52 2°∀51'36 1°32'46 evening rise 5140 Apr 10 08:52 18'29'80'51 18°19'53					Č			2°07'12
minferior conj 5140 Feb 13 12:30 23°≈37'56 2°43'31 min. Earth dist. 5141 Jan 27 19:18 7°≈32'31 0.68090 AU minimum elong 5140 Feb 13 10:07 23°≈46'10 2°42'55 morning rise 5141 Feb 01 23:48 1°≈18'25 min. Earth dist. 5140 Feb 13 23:26 23°≈00'17 0.67761 AU 5141 Feb 03 21:41 30°R morning rise 5140 Feb 18 15:46 17°≈24'32 direct 5141 Feb 06 18:32 29°517'14 5141 Feb 09 20:24 0°≈ 5140 Feb 24 01:08 15°≈01'43 5141 Feb 09 20:24 0°≈ 5140 Feb 18 15:46 17°≈24'32 desc. node 5140 Mar 05 20:43 21°≈28'44 23°51'36 morning max el 65:40 Mar 11 12:56 27°≈52'40 desc. node 5141 Feb 16 07:32 4°≈54'31 22°22'40 desc. node 5140 Mar 13 05:43 0° ★ 5140 Mar 10 08:52 12° ¥24'27 5141 Mar 21 22:06 22° ★21'134 5140 Mar 12 12:07 0° ★ 5140 Mar 10 08:52 12° ¥24'27 5141 Mar 26 12:50 0° ¥ 5140 Mar 20 04:29 0° ★ 5140 Mar 20 04:29 0° ★ 5140 Mar 20 12:04 2° ★28'34 -1°33'23 minimum elong 5140 Apr 21 12:04 2° ★28'34 -1°33'23 minimum elong 5140 Apr 21 16:56 2° ★51'36 1°32'46 evening rise 5140 May 02 03:38 23° ★08'51 asc. node 5141 Apr 19 00:40 12° ★33'06 evening rise 5140 May 02 03:38 23° ★08'51 asc. node 5141 Apr 19 00:40 12° ★33'06 5140 May 05 18:12 0° ▼1 0° ▼1 0° ▼1 0° ▼1 0° ▼1 12° ★10° ★10° ★114 Apr 19 00:40 12° ★33'06 5140 May 05 18:12 0° ▼1 0° ▼1 0° ▼1 0° ₹10° ★114 Apr 19 00:40 12° ★33'06 5140 May 05 18:12 0° ▼1 0° ▼1 0° ₹10° ★114 Apr 19 00:40 12° ★33'06 0° ★100 May 05 18:12 0° ▼1 0° ₹10° May 05 18:12 0° ™1 0° ₹10° May 05 18:12 0° ™1 0° ™1 0° № 1 0° №	evening set							
minimum elong	-			2°43'31				
min. Earth dist. 5140 Feb 13 23:26 23°≈00'17 0.67761 AU	,							
morning rise 5140 Feb 18 15:46 17°≈24'32 direct 5141 Feb 06 18:32 29°₹17'14 direct 5140 Feb 24 01:08 15°≈01'43 5141 Feb 09 20:24 0°≈ morning max el 5140 Mar 05 20:43 21°≈28'44 23°51'36 morning max el 5141 Feb 16 07:32 4°≈54'31 22°22'40 desc. node 5140 Mar 11 12:56 27°≈52'40 desc. node 5141 Feb 26 09:56 17°≈06'47 5140 Mar 13 05:43 0°\tau	C							
direct 5140 Feb 24 01:08 15°≈01'43 5141 Feb 09 20:24 0°≈ 4°≈54'31 22°22'40 morning max el 5140 Mar 05 20:43 21°≈28'44 23°51'36 morning max el 5141 Feb 16 07:32 4°≈54'31 22°22'40 desc. node 5141 Feb 26 09:56 17°≈06'47 17°≈06'47 17°≈06'47 17°≈06'47 17°≈06'47 12.07 0°¥ 141 Mar 07 12:07 0°¥ 12°¥2'134 12.04 12°¥2'134 12.04 12.04 12°¥2'17 141 Mar 21 22:06 22°¥2'134 12°				0.07701110	direct			
morning max el desc. node 5140 Mar 05 20:43 21°≈28'44 23°51'36 morning max el desc. node 5141 Feb 16 07:32 4°≈54'31 22°22'40 desc. node 5141 Feb 26 09:56 17°≈06'47 desc. node 5141 Mar 07 12:07 0° ★ 5140 Mar 13 05:43 0° ★ 5140 Apr 02 21:07 0° ϒ morning set 5140 Apr 10 08:52 12° ϒ24'27 max. Earth dist. 5140 Apr 10 08:52 12° ϒ24'27 max. Earth dist. 5140 Apr 20 04:29 0° ♥ superior conj 5140 Apr 20 04:29 0° ♥ superior conj 5141 Apr 03 20:11 14° ϒ26'37 -1°55'51 superior conj 5140 Apr 21 12:04 2° ₹28'34 -1°33'23 minimum elong 5141 Apr 04 00:50 14° ϒ47'29 1°55'30 minimum elong 5140 Apr 21 16:56 2° ₹51'36 1°32'46 evening rise 5140 May 05 18:12 0° Ⅲ evening max el 5141 Apr 19 00:40 12° ₹33'06 evening max el 5140 May 05 18:12 0° Ⅲ evening max el 5141 Apr 30 04:41 29° ₹07'51 18°19'53	=				uncet			
desc. node 5140 Mar 11 12:56 27°≈52'40 desc. node 5141 Feb 26 09:56 17°≈06'47 5140 Mar 13 05:43 0° ★ 5141 Mar 07 12:07 0° ★ 5141 Mar 07 12:07 0° ★ 5140 Apr 02 21:07 0° ♥ morning set 5141 Mar 21 22:06 22° ★21'34 morning set 5140 Apr 10 08:52 12° ♥24'27 5141 Mar 26 12:50 0° ♥ max. Earth dist. 5140 Apr 14 04:39 19° ♥04'24 1.38497 AU max. Earth dist. 5141 Mar 27 01:01 0° ♥51'26 1.40687 AU 5140 Apr 20 04:29 0° ♥ superior conj 5141 Apr 03 20:11 14° ♥26'37 -1°55'51 superior conj 5140 Apr 21 12:04 2° ♥28'34 -1°33'23 minimum elong 5141 Apr 04 00:50 14° ♥47'29 1°55'30 minimum elong 5140 Apr 21 16:56 2° ♥51'36 1°32'46 evening rise 5141 Apr 12 06:50 0° ♥ sevening rise 5140 Apr 30 13:20 20° ♥302'18 evening rise 5141 Apr 14 00:47 3° ♥17'04 asc. node 5140 May 05 18:12 0° Ⅲ evening max el 5141 Apr 30 04:41 29° ♥07'51 18°19'53				23°51'36	morning max el			22°22'40
S140 Mar 13 05:43 0°	-			23 3130	•			22 22 10
morning set 5140 Apr 02 21:07 0°Υ morning set 5141 Mar 21 22:06 22°¥21'34 Learth dist 5140 Apr 10 08:52 12°Υ24'27 5141 Mar 26 12:50 0°Υ 0°Υ 140687 AU Max. Earth dist. 5141 Mar 26 12:50 0°Υ 10°Υ51'26 1.40687 AU Max. Earth dist. 5141 Mar 27 01:01 0°Υ 10°Υ51'26 1.40687 AU Max. Earth dist. 5141 Apr 27 01:01 0°Υ 14°Υ26'37 -1°55'51 Max. Earth dist. 5141 Apr 03 20:11 14°Υ26'37 -1°55'51 Max. Earth dist. 5141 Apr 03 20:11 14°Υ26'37 -1°55'51 Max. Earth dist. 5141 Apr 04 00:50 14°Υ47'29 1°55'30 Minimum elong 5140 Apr 21 16:56 2°851'36 1°32'46 Find on the properties of the properties o	desc. node				desc. node			
morning set 5140 Apr 10 08:52 12°Υ24'27 5141 Mar 26 12:50 0°Υ 1.40687 AU max. Earth dist. 5140 Apr 14 04:39 19°Υ04'24 1.38497 AU max. Earth dist. 5141 Mar 27 01:01 0°Υ51'26 1.40687 AU superior conj 5140 Apr 20 04:29 0°৪ superior conj 5141 Apr 03 20:11 14°Υ26'37 -1°55'51 superior conj 5140 Apr 21 12:04 2°828'34 -1°33'23 minimum elong 5141 Apr 04 00:50 14°Υ47'29 1°55'30 minimum elong 5140 Apr 21 16:56 2°851'36 1°32'46 5141 Apr 12 06:50 0°8 evening rise 5140 Apr 30 13:20 20°802'18 evening rise 5141 Apr 14 00:47 3°817'04 asc. node 5140 May 05 18:12 0° II 0° II evening max el 5141 Apr 30 04:41 29°807'51 18°19'53					morning set			
max. Earth dist. 5140 Apr 14 04:39 19°Y04'24 1.38497 AU max. Earth dist. 5141 Mar 27 01:01 0°Y51'26 1.40687 AU superior conj 5140 Apr 20 04:29 0°8 superior conj 5141 Apr 03 20:11 14°Y26'37 -1°55'51 superior conj 5140 Apr 21 12:04 2°828'34 -1°33'23 minimum elong 5141 Apr 04 00:50 14°Y47'29 1°55'30 minimum elong 5140 Apr 21 16:56 2°851'36 1°32'46 5141 Apr 12 06:50 0°8 evening rise 5140 Apr 30 13:20 20°802'18 evening rise 5141 Apr 14 00:47 3°817'04 asc. node 5140 May 02 03:38 23°808'51 asc. node 5141 Apr 19 00:40 12°833'06 5140 May 05 18:12 0°II evening max el 5141 Apr 30 04:41 29°807'51 18°19'53	morning set	•						
Superior conj S140 Apr 20 04:29 0°8 Superior conj S141 Apr 03 20:11 14°Y26'37 -1°55'51	•	-		1 38/197 ATT	may Farth dist			1.40687 ATT
superior conj 5140 Apr 21 12:04 2°828'34 -1°33'23 minimum elong 5141 Apr 04 00:50 14°Y26'37 -1°55'51 superior conj 5140 Apr 21 16:56 2°851'36 1°32'46 5141 Apr 12 06:50 0°8 evening rise 5140 Apr 30 13:20 20°802'18 evening rise 5141 Apr 12 06:50 0°8 asc. node 5140 May 02 03:38 23°808'51 asc. node 5141 Apr 19 00:40 12°833'06 5140 May 05 18:12 0°II evening max el 5141 Apr 30 04:41 29°807'51 18°19'53	max. Darm dist.	=		1.504) / AU	max. Darm uist.	2171 WIGH 2/ ULUI	0 13120	1.4000/ AU
superior conj 5140 Apr 21 12:04 2°828'34 -1°33'23 minimum elong 5141 Apr 04 00:50 14°Y47'29 1°55'30 minimum elong 5140 Apr 21 16:56 2°851'36 1°32'46 5141 Apr 12 06:50 0°8 evening rise 5140 Apr 30 13:20 20°802'18 evening rise 5141 Apr 14 00:47 3°817'04 asc. node 5140 May 02 03:38 23°808'51 asc. node 5141 Apr 19 00:40 12°833'06 evening max el 5141 Apr 30 04:41 29°807'51 18°19'53		2170 Apr 20 04.29	v O		superior coni	5141 Apr 03 20-11	140476127	-1°55'51
minimum elong 5140 Apr 21 16:56 2°\S51'36 1°32'46 5141 Apr 12 06:50 0°\S evening rise 5140 Apr 30 13:20 20°\S02'18 evening rise 5141 Apr 14 00:47 3°\S17'04 asc. node 5140 May 02 03:38 23°\S08'51 asc. node 5141 Apr 19 00:40 12°\S33'06 5140 May 05 18:12 0°\T evening max el 5141 Apr 30 04:41 29°\S07'51 18°19'53	superior con-	5140 Apr 21 12:04	2012 4	1023122		-		
evening rise 5140 Apr 30 13:20 20°802'18 evening rise 5141 Apr 14 00:47 3°817'04 asc. node 5140 May 02 03:38 23°808'51 asc. node 5141 Apr 19 00:40 12°833'06 5140 May 05 18:12 0°II evening max el 5141 Apr 30 04:41 29°807'51 18°19'53		•			mmmum eiong	•		1 33 30
asc. node 5140 May 02 03:38 23°808'51 asc. node 5141 Apr 19 00:40 12°833'06 evening max el 5141 Apr 30 04:41 29°807'51 18°19'53	•	=		1 34 40	avaning rise	-		
5140 May 05 18:12 0°II evening max el 5141 Apr 30 04:41 29°807'51 18°19'53	•	•			•	•		
· · · · · · · · · · · · · · · · · · ·	asc. noue	•				•		10010152
EVENING MAX CI 3140 May 10 22.23 10 13231 18-3233 3141 May 01 03:22 0°11	ovenina mass -1	-		10052125	evening max el	-		10 19 33
	evening max el	5140 May 10 22:25	10 Щ3231	16 32 33		3141 May 01 03:22	υц	

retrograde	5141 May 07 10:57	2° ∏ 44'50		evening max el	5142 Apr 13 15:54	12° 8 08'14	18006'53
evening set	5141 May 07 10.57 5141 May 09 19:52	2° I I22'37		retrograde	5142 Apr 13 13:34 5142 Apr 20 06:36	15° 8 31'16	18 00 33
evening set	5141 May 14 05:56	30°R B		-	•	14° 8 58'33	
	,		2012110	evening set	5142 Apr 22 22:19	_	2002122
inferior conj	5141 May 17 01:57	27° 8 44'44		inferior conj	5142 Apr 29 12:10	10° 8 00'04	3°03'23
minimum elong	5141 May 17 05:27	27° 8 37'23	2°12'19	minimum elong	5142 Apr 29 14:56	9° 8 53'21	3°02'53
min. Earth dist.	5141 May 20 12:25	24° 8 52'56	0.58907 AU	min. Earth dist.	5142 May 02 16:27	6° 8 56'18	0.61115 AU
morning rise	5141 May 24 11:59	22° 8 09'39		morning rise	5142 May 06 05:31	4° 8 04'27	
desc. node	5141 May 25 09:11	21° 8 42'35		desc. node	5142 May 12 06:13	1° 8 49'56	
direct	5141 May 30 16:50	20° 8 26'24		direct	5142 May 12 22:47	1° 8 48'33	
morning max el	5141 Jun 14 02:14	28° 8 13'42	27°15'08	morning max el	5142 May 27 04:28	9° 8 46'00	27°49'49
	5141 Jun 15 19:50	0°Щ			5142 Jun 11 20:14	0°Щ	
	5141 Jul 06 09:21	0∘ ©			5142 Jun 28 12:44	0ა ௐ	
morning set	5141 Jul 14 20:07	16° © 35'48		morning set	5142 Jun 29 00:39	1° © 01'09	
asc. node	5141 Jul 15 23:54	19° © 02'30		asc. node	5142 Jul 02 20:56	9° 5 07'13	
	5141 Jul 21 00:50	0 \circ Ω		max. Earth dist.	5142 Jul 04 23:37	13° © 41'49	1.32098 AU
superior conj	5141 Jul 21 21:51	1° Ω 56'04	0°58'19	superior conj	5142 Jul 06 08:36	16° © 42'17	0°35'42
minimum elong	5141 Jul 21 19:42	1° Ω 44'11	0°57'54	minimum elong	5142 Jul 06 07:04	16°933'52	0-35/21
max. Earth dist.	5141 Jul 21 13:37	1° Ω 10'35	1.31922 AU		5142 Jul 12 10:32	0° Ω	
evening rise	5141 Jul 28 17:21	16° Ω 47'47		evening rise	5142 Jul 13 04:19	1° Ω 35'15	
	5141 Aug 04 06:24	0° m			5142 Jul 28 13:22	0° m	
desc. node	5141 Aug 21 08:30	26° m 44'09		desc. node	5142 Aug 08 05:31	13° m 19'29	
	5141 Aug 24 05:01	0∘ ⊽		evening max el	5142 Aug 08 10:34	13° m 31'37	25°00'25
evening max el	5141 Aug 26 17:49	2° £ 33'56	26°19'34	retrograde	5142 Aug 22 08:41	20°m/33'39	
retrograde	5141 Sep 09 16:54	9° ≏ 42'20		evening set	5142 Aug 27 20:53	19° Mp 24'46	
evening set	5141 Sep 16 06:45	7° £ 55'59		min. Earth dist.	5142 Sep 01 22:05	16° Mp 40′43	0.57328 AU
min. Earth dist.	5141 Sep 20 07:08	5° £ 21′06	0.59307 AU	inferior conj	5142 Sep 04 20:19	14° m 44'01	-5°17'01
inferior conj	5141 Sep 23 13:03	2° £ 51'57	-4°52'15	minimum elong	5142 Sep 04 21:24	14° m 42'13	5°17'00
minimum elong	5141 Sep 23 18:22	2° ≏ 41'44	4°51'23	morning rise	5142 Sep 13 00:14	10° m 33'54	
	5141 Sep 27 14:23	30°₽.₩		direct	5142 Sep 15 13:46	10° m 14'54	
morning rise	5141 Oct 01 08:11	28° Mp 19'28		morning max el	5142 Sep 24 14:37	14° Mp 30'43	19°10'10
direct	5141 Oct 03 16:50	28° Mp 00'04		asc. node	5142 Sep 28 20:10	19° m 23'01	
	5141 Oct 09 09:23	0∘ ত			5142 Oct 05 11:14	0∘ ত	
morning max el	5141 Oct 11 13:41	1° ≏ 49'12	18°22'36	morning set	5142 Oct 11 12:10	11° ≏ 34'59	
asc. node	5141 Oct 11 23:08	2° £ 12'28					
morning set	5141 Oct 27 12:37	27° £ 15′02		superior conj	5142 Oct 19 17:22	27° ≏ 49'37	1°34'04
	5141 Oct 28 23:05	0°M		minimum elong	5142 Oct 19 19:50	28° ഫ 01'32	1°33'53
					5142 Oct 20 20:27	0° M ₊	
superior conj	5141 Nov 05 15:27	14°M29'13	1°16'49	max. Earth dist.	5142 Oct 26 08:49	10° M 16'57	1.38496 AU
minimum elong	5141 Nov 05 19:10	14° M .46'19	1°16'24	evening rise	5142 Oct 30 03:45	17° M 00'21	
max. Earth dist.	5141 Nov 13 03:46	27°M51'14	1.40604 AU	desc. node	5142 Nov 04 04:47	25°M32'13	
	5141 Nov 14 09:55	0° ∡ ¹			5142 Nov 06 22:49	0° ∡ ¹	
desc. node	5141 Nov 17 07:44	4° ∡ ¹52'37			5142 Nov 28 01:16	ರ°0	
evening rise	5141 Nov 17 15:53	5° ∡ ¹26'14		evening max el	5142 Dec 04 16:20	7° る 21'49	24°47'27
Č	5141 Dec 03 13:45	8°0		retrograde		1.10-7.000.0	
evening max el	5141 Dec 22 03:13	23° る 39'02			3142 Dec 10 07:43	14° 5 08'03	
retrograde		23 (239.02	23°29'04	evening set	5142 Dec 16 07:43 5142 Dec 21 21:42	14°る08'03 11°る48'33	
•			23°29'04	evening set	5142 Dec 21 21:42	11° る 48'33	
evening set	5142 Jan 01 17:44	29° る 55'03	23°29'04	asc. node	5142 Dec 21 21:42 5142 Dec 25 19:25	11°ප්48'33 7°ප්30'59	0.67634 AU
evening set asc. node	5142 Jan 01 17:44 5142 Jan 06 18:17	29°る55'03 27°る50'22	23°29'04	asc. node min. Earth dist.	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28	11°ප්48'33 7°ප්30'59 6°ප්38'42	0.67634 AU 0°32'56
asc. node	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24	29°る55'03 27°る50'22 26°る44'27		asc. node min. Earth dist. inferior conj	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29	11°る48'33 7°る30'59 6°る38'42 5°る22'36	0°32'56
asc. node min. Earth dist.	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06	29° ප 555'03 27° ප 50'22 26° පි 44'27 22° පි 06'21	0.68045 AU	asc. node min. Earth dist.	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41	11° ට 48'33 7° ට 30'59 6° ට 38'42 5° ට 22'36 5° ට 25'14	
asc. node min. Earth dist. inferior conj	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11	29°ට 55'03 27°ට 50'22 26°ට 44'27 22°ට 66'21 21°ට 24'56	0.68045 AU 1°23'22	asc. node min. Earth dist. inferior conj minimum elong	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41	11°る48'33 7°る30'59 6°る38'42 5°る22'36 5°る25'14 30°Rダ	0°32'56
asc. node min. Earth dist. inferior conj minimum elong	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25	29°정55'03 27°정50'22 26°정44'27 22°정06'21 21°정24'56 21°정31'02	0.68045 AU 1°23'22	asc. node min. Earth dist. inferior conj minimum elong morning rise	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 01 21:48	11° で48'33 7° で330'59 6° で38'42 5° で22'36 5° で25'14 30° R ダ 29° ダ 22'58	0°32'56
asc. node min. Earth dist. inferior conj minimum elong morning rise	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28	29°उ55'03 27°उ50'22 26°उ44'27 22°उ06'21 21°उ24'56 21°उ31'02 15°उ18'43	0.68045 AU 1°23'22	asc. node min. Earth dist. inferior conj minimum elong	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 01 21:48 5143 Jan 05 13:36	11° で 48'33 7° で 30'59 6° で 38'42 5° で 22'36 5° で 25'14 30° ペメ 29° メ 22'58 28° メ 06'04	0°32'56
asc. node min. Earth dist. inferior conj minimum elong morning rise direct	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08	29°उ55'03 27°उ50'22 26°उ44'27 22°उ06'21 21°उ24'56 21°उ31'02 15°उ18'43 13°उ40'17	0.68045 AU 1°23'22 1°22'42	asc. node min. Earth dist. inferior conj minimum elong morning rise direct	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 01 21:48 5143 Jan 05 13:36 5143 Jan 10 09:06	11° 548'33 7° 530'59 6° 538'42 5° 522'36 5° 525'14 30° R ダ 29° ダ22'58 28° ダ06'04 0° 5	0°32'56 0°32'37
asc. node min. Earth dist. inferior conj minimum elong morning rise	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58	29°ರ55'03 27°ರ50'22 26°ರ44'27 22°ರ06'21 21°ರ24'56 21°ರ31'02 15°ರ18'43 13°ರ40'17 18°ರ30'10	0.68045 AU 1°23'22	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 01 21:48 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 13 00:19	11° で48'33 7° で330'59 6° で338'42 5° で22'36 5° で25'14 30° R.ズ 29° ズ22'58 28° ズ06'04 0° で 2° で18'02	0°32'56 0°32'37 19°50'19
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47	29°弓55'03 27°弓50'22 26°弓44'27 22°弓06'21 21°弓24'56 21°弓31'02 15°弓18'43 13°弓40'17 18°弓30'10 0°≈	0.68045 AU 1°23'22 1°22'42	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 01 21:48 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 13 00:19 5143 Jan 26 07:25	11° で48'33 7° で330'59 6° で38'42 5° で22'36 5° で25'14 30° R メ 29° メ 22'58 28° メ 06'04 0° で 2° で18'02 19° で45'05	0°32'56 0°32'37
asc. node min. Earth dist. inferior conj minimum elong morning rise direct	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58	29°弓55'03 27°弓50'22 26°弓44'27 22°弓06'21 21°弓24'56 21°弓31'02 15°弓18'43 13°弓40'17 18°弓30'10 0°≈ 6°≈52'15	0.68045 AU 1°23'22 1°22'42	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 13 00:19 5143 Jan 26 07:25 5143 Jan 31 04:01	11° で48'33 7° で30'59 6° で38'42 5° で22'36 5° で25'14 30° R メ 29° メ 22'58 28° メ 06'04 0° で 2° で318'02 19° で45'05 27° で300'35	0°32'56 0°32'37 19°50'19
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44	29°弓55'03 27°弓50'22 26°弓44'27 22°弓06'21 21°弓24'56 21°弓31'02 15°弓18'43 13°弓40'17 18°弓30'10 0°≈ 6°≈52'15 0°光	0.68045 AU 1°23'22 1°22'42	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 13 00:19 5143 Jan 26 07:25 5143 Jan 31 04:01 5143 Feb 02 03:23	11° ₹48'33 7° ₹30'59 6° ₹38'42 5° ₹22'36 5° ₹25'14 30° ₹ ₹ 29° ₹22'58 28° ₹06'04 0° ₹ 2° ₹18'02 19° ₹45'05 27° ₹300'35 0° ≈	0°32'56 0°32'37 19°50'19
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43	29° 555'03 27° 550'22 26° 544'27 22° 506'21 21° 524'56 21° 531'02 15° 518'43 13° 540'17 18° 530'10 0° ≈ 6° ≈ 52'15 0° 升 1° 升(02'31	0.68045 AU 1°23'22 1°22'42 21°00'24	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 26 07:25 5143 Jan 31 04:01 5143 Feb 02 03:23 5143 Feb 08 04:00	11° で48'33 7° で30'59 6° で38'42 5° で22'36 5° で25'14 30° ペメ 29° メ 22'58 28° メ 06'04 0° で 2° で18'02 19° で45'05 27° で300'35 0° ※ 9° ※ 13'41	0°32'56 0°32'37 19°50'19 -0.6m
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44	29° 555'03 27° 550'22 26° 544'27 22° 506'21 21° 524'56 21° 531'02 15° 518'43 13° 540'17 18° 530'10 0° ≈ 6° ≈ 52'15 0° 升 1° 升(02'31	0.68045 AU 1°23'22 1°22'42	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 26 07:25 5143 Jan 31 04:01 5143 Feb 02 03:23 5143 Feb 08 04:00 5143 Feb 19 14:58	11° で48'33 7° で30'59 6° で38'42 5° で22'36 5° で25'14 30° ペメ 29° メ 22'58 28° メ 06'04 0° で 2° で18'02 19° で45'05 27° で300'35 0° ※ 9° ※ 13'41 27° ※ 09'23	0°32'56 0°32'37 19°50'19
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43 5142 Mar 09 03:54	29° 555'03 27° 550'22 26° 544'27 22° 506'21 21° 524'56 21° 531'02 15° 518'43 13° 540'17 18° 530'10 0° ≈ 6° ≈ 52'15 0° 升 1° 升02'31 13° 升33'52	0.68045 AU 1°23'22 1°22'42 21°00'24	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 26 07:25 5143 Jan 31 04:01 5143 Feb 02 03:23 5143 Feb 08 04:00	11° で48'33 7° で30'59 6° で38'42 5° で22'36 5° で25'14 30° ペメ 29° メ 22'58 28° メ 06'04 0° で 2° で18'02 19° で45'05 27° で300'35 0° ※ 9° ※ 13'41	0°32'56 0°32'37 19°50'19 -0.6m
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43 5142 Mar 09 03:54	29° 〒55'03 27° 〒55'02 26° 〒44'27 22° 〒06'21 21° 〒24'56 21° 〒31'02 15° 〒18'43 13° 〒40'17 18° 〒30'10 0° ※ 6° ※ 52'15 0° 米 1° 升02'31 13° 升33'52	0.68045 AU 1°23'22 1°22'42 21°00'24 1.42690 AU -2°08'08	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 26 07:25 5143 Jan 31 04:01 5143 Feb 02 03:23 5143 Feb 08 04:00 5143 Feb 19 14:58 5143 Feb 21 09:43	11° で48'33 7° で330'59 6° で38'42 5° で22'36 5° で25'14 30° R ズ 29° ズ 22'58 28° ズ 06'04 0° で 2° で18'02 19° で45'05 27° で00'35 0° ※ 9° ※ 13'41 27° ※ 09'23 0° 光	0°32'56 0°32'37 19°50'19 -0.6m
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43 5142 Mar 09 03:54 5142 Mar 16 06:13 5142 Mar 16 07:51	29°云55'03 27°云55'02 26°云44'27 22°云06'21 21°云24'56 21°云31'02 15°云18'43 13°云40'17 18°云30'10 0°≈ 6°≈52'15 0°米 1°升02'31 13°升33'52 25°升22'30 25°升29'26	0.68045 AU 1°23'22 1°22'42 21°00'24 1.42690 AU -2°08'08	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Feb 02 03:23 5143 Feb 08 04:00 5143 Feb 19 14:58 5143 Feb 21 09:43	11° で 48'33 7° で 30'59 6° で 38'42 5° で 22'36 5° で 25'14 30° ペペ 29° ペ 22'58 28° ペ 06'04 0° で 2° で 18'02 19° で 45'05 27° で 00'35 0° ※ 9° ※ 13'41 27° ※ 09'23 0° 光 5° 米 10'42	0°32'56 0°32'37 19°50'19 -0.6m 1.44234 AU
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43 5142 Mar 09 03:54 5142 Mar 16 06:13 5142 Mar 16 07:51 5142 Mar 18 23:00	29°云55'03 27°云55'03 27°云50'22 26°云44'27 22°云06'21 21°云24'56 21°云31'02 15°云18'43 13°云40'17 18°云30'10 0°≈ 6°≈52'15 0°米 1°米02'31 13°米33'52 25°米22'30 25°米29'26 0°Ƴ	0.68045 AU 1°23'22 1°22'42 21°00'24 1.42690 AU -2°08'08	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Feb 02 03:23 5143 Feb 08 04:00 5143 Feb 19 14:58 5143 Feb 21 09:43	11° で 48'33 7° で 30'59 6° で 38'42 5° で 22'36 5° で 22'14 30° ペペ 29° ペ 22'58 28° ペ 06'04 0° で 2° で 18'02 19° で 45'05 27° で 00'35 0° ※ 9° ※ 13'41 27° ※ 09'23 0° 光 5° 光 10'42 4° 光 53'03	0°32'56 0°32'37 19°50'19 -0.6m 1.44234 AU
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43 5142 Mar 09 03:54 5142 Mar 16 06:13 5142 Mar 16 07:51 5142 Mar 18 23:00 5142 Mar 27 21:50	29°云55'03 27°云55'03 27°云50'22 26°云44'27 22°云06'21 21°云24'56 21°云31'02 15°云18'43 13°云40'17 18°云30'10 0°≈ 6°≈52'15 0°米 1°米02'31 13°米33'52 25°米22'30 25°米29'26 0°Ƴ 15°Ƴ48'33	0.68045 AU 1°23'22 1°22'42 21°00'24 1.42690 AU -2°08'08	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Jan 10 09:06 5143 Jan 10 00:19 5143 Jan 26 07:25 5143 Jan 31 04:01 5143 Feb 02 03:23 5143 Feb 08 04:00 5143 Feb 19 14:58 5143 Feb 21 09:43 5143 Feb 24 10:29 5143 Mar 10 00:07	11° で 48'33 7° で 30'59 6° で 38'42 5° で 22'36 5° で 22'14 30° ペペ 29° ペ 22'58 28° ペ 06'04 0° で 2° で 18'02 19° で 45'05 27° で 00'35 0° ※ 9° ※ 13'41 27° ※ 09'23 0° 光 5° 光 10'42 4° 光 53'03 27° 米 28'52	0°32'56 0°32'37 19°50'19 -0.6m 1.44234 AU
asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	5142 Jan 01 17:44 5142 Jan 06 18:17 5142 Jan 07 22:24 5142 Jan 11 16:06 5142 Jan 12 04:11 5142 Jan 12 02:25 5142 Jan 17 10:28 5142 Jan 21 15:08 5142 Jan 29 23:58 5142 Feb 08 09:47 5142 Feb 13 06:58 5142 Feb 28 15:44 5142 Mar 01 07:43 5142 Mar 09 03:54 5142 Mar 16 06:13 5142 Mar 16 07:51 5142 Mar 18 23:00	29°云55'03 27°云55'03 27°云50'22 26°云44'27 22°云06'21 21°云24'56 21°云31'02 15°云18'43 13°云40'17 18°云30'10 0°≈ 6°≈52'15 0°米 1°米02'31 13°米33'52 25°米22'30 25°米29'26 0°Ƴ	0.68045 AU 1°23'22 1°22'42 21°00'24 1.42690 AU -2°08'08	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	5142 Dec 21 21:42 5142 Dec 25 19:25 5142 Dec 26 11:28 5142 Dec 27 10:29 5142 Dec 27 09:41 5143 Jan 01 02:41 5143 Jan 05 13:36 5143 Jan 10 09:06 5143 Feb 02 03:23 5143 Feb 08 04:00 5143 Feb 19 14:58 5143 Feb 21 09:43	11° で 48'33 7° で 30'59 6° で 38'42 5° で 22'36 5° で 22'14 30° ペペ 29° ペ 22'58 28° ペ 06'04 0° で 2° で 18'02 19° で 45'05 27° で 00'35 0° ※ 9° ※ 13'41 27° ※ 09'23 0° 光 5° 光 10'42 4° 光 53'03	0°32'56 0°32'37 19°50'19 -0.6m 1.44234 AU

evening max el	5143 Mar 28 04:50	25° Ƴ 25'25	18°12'53		5144 Mar 03 19:50	0° Ƴ	
retrograde	5143 Apr 03 14:37	28° Y 49'25	16 12 33	asc. node	5144 Mar 09 15:47	7° Υ '45'44	
evening set	5143 Apr 06 12:36	28° Υ '04'50		evening max el	5144 Mar 10 16:37	8° Υ 51'59	18°37'17
inferior conj	5143 Apr 12 14:17	22° Υ 46'48	3°27'51	retrograde	5144 Mar 17 06:39	12° Υ 29'52	10 37 17
minimum elong	5143 Apr 12 15:27	22°Υ43'34	3°27'45	evening set	5144 Mar 20 10:56	11° Y '32'40	
min. Earth dist.	5143 Apr 15 05:22	19° Υ 54'35	0.63219 AU	inferior conj	5144 Mar 26 04:10	5°Υ56'49	3°32'39
morning rise	5143 Apr 18 17:12	16° Ƴ 39'29		minimum elong	5144 Mar 26 03:48		
direct	5143 Apr 25 13:44	14° Y ′00′24		min. Earth dist.	5144 Mar 28 03:47	3° Y '33'17	0.65019 AU
desc. node	5143 Apr 29 03:14	14° Y ′38'27		morning rise	5144 Mar 31 20:05	29°) 43'49	
morning max el	5143 May 09 11:54	21° Y ′59'52	27°46'40	-	5144 Mar 31 12:39	30° ₹	
-	5143 May 16 12:03	0°8		direct	5144 Apr 07 12:19	26°) 54′27	
	5143 Jun 05 00:17	Π $^{\circ}0$		desc. node	5144 Apr 15 00:16	29°) (42′24	
morning set	5143 Jun 12 22:47	15° Ⅲ 04′28			5144 Apr 15 10:21	0° Y	
max. Earth dist.	5143 Jun 18 04:36	25° Ⅱ 54'46	1.32712 AU	morning max el	5144 Apr 20 21:55	4° Ƴ 46'19	27°09'03
asc. node	5143 Jun 19 18:00	29° Ⅱ 14'30			5144 May 10 01:47	9° 8	
	5143 Jun 20 02:28	0		morning set	5144 May 26 11:38	28° 8 37'11	
					5144 May 27 04:41	Π °0	
superior conj	5143 Jun 20 16:28	1° © 15'28	0°09'45	max. Earth dist.	5144 May 31 00:38	7° Ⅱ 38'50	1.33780 AU
minimum elong	5143 Jun 20 16:00	1°©12'55	0°09'38				
behind sun begin	5143 Jun 20 11:46	0° © 50'03		superior conj	5144 Jun 03 19:25	15° ∐ 29'22	
behind sun end	5143 Jun 20 20:14	1° © 35'49		minimum elong	5144 Jun 03 20:24	15° ∏ 34'33	0°18'33
evening rise	5143 Jun 27 16:09	16° © 21'23		asc. node	5144 Jun 05 15:04	19° ∏ 20′07	
	5143 Jul 04 10:18	$0^{\circ}\Omega$			5144 Jun 10 15:32	0°€	
evening max el	5143 Jul 20 23:05	23° Ω 56'38	23°24'50	evening rise	5144 Jun 11 02:55	0°959'52	
desc. node	5143 Jul 26 02:32	28° Ω 03'51			5144 Jun 27 17:41	0°N	
	5143 Jul 30 03:06	0° m)		evening max el	5144 Jul 01 15:10	4°Ω21'12	21°48'57
retrograde	5143 Aug 03 12:03	0° Mp 43'40		desc. node	5144 Jul 11 23:32	10° Ω 23'06	
evening set	5143 Aug 07 12:37	0° Mp 08'13		retrograde	5144 Jul 14 04:38	10° Ω 34'36	
i. Fauth diet	5143 Aug 07 23:32	30°R Ω 26° Ω 58'30	0.55742 ATT	evening set	5144 Jul 16 20:20	10°Ω18'44 6°Ω16'24	295 4100
min. Earth dist.	5143 Aug 14 08:35	26° ∂ (38°30 25° Ω 49'13	0.55742 AU	inferior conj	5144 Jul 26 03:53 5144 Jul 25 19:03	6°Ω28'47	
inferior conj minimum elong	5143 Aug 16 07:33 5143 Aug 16 02:10	25° Ω 57'11		minimum elong min. Earth dist.	5144 Jul 25 18:36	6° Ω 29'24	0.54870 AU
morning rise	5143 Aug 24 18:07	23 δι 3/11 21° Ω 56'10	3 00 43	morning rise	5144 Aug 03 19:11	2° Ω 25'23	0.54670 AU
direct	5143 Aug 27 15:22	21° Ω 35'51		direct	5144 Aug 07 02:27	2° Ω 01'28	
morning max el	5143 Sep 07 04:08	26° Ω 29'35	20°19'45	morning max el	5144 Aug 19 05:47	7°Ω43'04	21°49'16
morning max er	5143 Sep 10 10:47	0° m)	20 17 43	asc. node	5144 Sep 01 14:19	26° Ω 10'45	21 47 10
asc. node	5143 Sep 15 17:14	7° Mp 26'36		use. noue	5144 Sep 03 15:49	0° m)	
morning set	5143 Sep 25 17:51	26° m 12'13		morning set	5144 Sep 09 03:23	11° m 00'13	
	5143 Sep 27 14:13	0∘ ⊽					
	1			superior conj	5144 Sep 16 08:32	26° m) 14'21	1°42'56
superior conj	5143 Oct 03 08:22	11° ≏ 48'28	1°42'18	minimum elong	5144 Sep 16 08:00	26° m 11'33	1°42'56
minimum elong	5143 Oct 03 09:15	11° ≏ 52'56	1°42'17		5144 Sep 18 03:53	0∘ ⊽	
max. Earth dist.	5143 Oct 08 15:31	22° ≏ 15'38	1.36477 AU	max. Earth dist.	5144 Sep 20 04:32	4° £ 09'05	1.34741 AU
evening rise	5143 Oct 12 12:29	29° £ 31'36		evening rise	5144 Sep 24 14:04	12° ≏ 50'09	
	5143 Oct 12 18:42	0° M			5144 Oct 04 02:58	0° M	
desc. node	5143 Oct 22 01:49	16°M01'33		desc. node	5144 Oct 07 22:50	6°M15'19	
	5143 Oct 31 04:29	0° ∡			5144 Oct 25 05:28	0° ∡ 7	
evening max el	5143 Nov 17 04:56	21° ₹ 05'28	25°57'21	evening max el	5144 Oct 29 17:36	4° ₹ 44'01	26°51'23
retrograde	5143 Nov 29 16:57	28° ≯ 12′10		retrograde	5144 Nov 11 20:52	12° ≯ 01'04	
evening set	5143 Dec 05 20:29	25° ∡ ¹40'14		evening set	5144 Nov 18 12:38	9° ∡ ²21'44	
min. Earth dist.	5143 Dec 10 03:03	21° ∡ 05'27	0.66868 AU	min. Earth dist.	5144 Nov 22 12:37	5° ∡ ′22'18	0.65750 AU
inferior conj	5143 Dec 11 13:15	19° √ 18′25		inferior conj	5144 Nov 24 10:30	3° ∡ 108'59	
minimum elong	5143 Dec 11 13:52	19° ∡ 16'30	0°22'57	minimum elong	5144 Nov 24 12:53	3° ∡ 102'05	1°22'51
asc. node	5143 Dec 12 16:29	17° 🗷 54'13			5144 Nov 27 07:28	30°₹M.	
morning rise	5143 Dec 17 07:44	13° 🗷 27'43		asc. node	5144 Nov 28 13:31	28°M51'40	
direct	5143 Dec 20 12:19	12° 🗷 29'28	10055100	morning rise	5144 Nov 30 14:02	27°M29'47	
morning max el	5143 Dec 27 08:18	16° ≯ 15'28	18°55'09	direct	5144 Dec 03 09:24	26°M46'27	
marning sat	5144 Jan 06 18:37	0°る 10° ろ 07'10		morning me1	5144 Dec 09 14:51	0°×7 0°×717'24	10016110
morning set desc. node	5144 Jan 18 11:54	18°る07'18 17°る24'52		morning max el	5144 Dec 09 21:57	0° ₹ 17'24 28° ₹ 26'19	18°16'12
acsc. Hour	5144 Jan 18 01:02 5144 Jan 26 02:14	1/° 6 2432 0° ≈		morning set	5144 Dec 28 23:35 5144 Dec 29 22:44	0°る。	
max. Earth dist.	5144 Jan 26 02:14 5144 Feb 02 07:43		1.45135 AU	desc. node	5144 Dec 29 22:44 5145 Jan 03 22:05	8° ろ 00'38	
max. Darui dist.	J1771 CU UZ U/.43	11 ~1723	1.73133 AU	dese. Houc	5175 Jan 05 22.03	0 00038	
superior conj	5144 Feb 04 01:14	14° ≈ 02'41	-1°41'25	superior conj	5145 Jan 13 04:27	22° る 42'29	-1°01'18
minimum elong	5144 Feb 03 16:03	13°≈26'34		minimum elong	5145 Jan 12 21:00	22° ට 13'09	
	5144 Feb 14 02:06	0° ∀		max. Earth dist.	5145 Jan 15 02:44	25°る44'12	
evening rise	5144 Feb 19 03:56	8° ¥ 12'05			5145 Jan 17 20:03	0° ≈	
J							

	5145 T 20 00 50	100 - 01140			5146 X 00 01 57	27071746	
evening rise	5145 Jan 29 08:58	18°≈01'42		evening rise	5146 Jan 08 21:57	27° る 17'46	
	5145 Feb 06 01:05	0° ∀			5146 Jan 10 16:15	0° ≈	
greatest brilliancy	5145 Feb 09 19:19	5°) 47'34			5146 Jan 31 03:36	0° ∀	
evening max el	5145 Feb 22 01:03	22° ∺ 23'18	19°19'00	evening max el	5146 Feb 05 04:37	5° ¥ 56'57	20°16'09
asc. node	5145 Feb 24 12:48	24°) 36′30		asc. node	5146 Feb 11 09:49	10°) 18′25	
retrograde	5145 Mar 01 03:07	26°) €25'58		retrograde	5146 Feb 13 01:15	10°) 32′52	
evening set	5145 Mar 04 14:31	25° ∺ 15'22		evening set	5146 Feb 16 21:06	9° ₩ 07'57	
inferior conj	5145 Mar 10 02:23	19°) 23′48	3°22'27	inferior conj	5146 Feb 22 06:04	3° 光 02'57	3°00'34
minimum elong	5145 Mar 10 00:50	19°) 28'46	3°22'16	minimum elong	5146 Feb 22 03:51	3°) 10′29	3°00'06
min. Earth dist.	5145 Mar 11 10:48	17°) 38'45	0.66421 AU	min. Earth dist.	5146 Feb 23 00:30	2° ₩ 00'26	0.67395 AU
morning rise	5145 Mar 15 10:50	13°) €08'54			5146 Feb 24 13:04	30°R≈	
direct	5145 Mar 21 17:25	10°) 22′04		morning rise	5146 Feb 27 10:22	26°≈48'34	
desc. node	5145 Apr 01 21:18	16°) €28'04		direct	5146 Mar 05 04:05	24°≈14'42	
morning max el	5145 Apr 03 07:48	17°) 52'28	26°04'23	4.1.000	5146 Mar 15 12:46	0° ∀	
morning max or	5145 Apr 13 12:05	0°Υ	20 0123	morning max el	5146 Mar 16 16:29	1° ₩ 08'10	24°42'26
	5145 May 03 01:19	0° 8		desc. node	5146 Mar 19 18:20	4° ¥ 27'09	24 42 20
mamina aat		11° 8 28'29		desc. Hode		4 γ (2/0)	
morning set	5145 May 09 11:23		1 25215 411		5146 Apr 07 11:50		
max. Earth dist.	5145 May 13 09:12	18° O 52'52	1.35315 AU	morning set	5146 Apr 21 17:00	23° Y 24'25	
					5146 Apr 25 09:01	0°8	
superior conj	5145 May 18 14:59	29° 8 17'20		max. Earth dist.	5146 Apr 25 07:48	29° Y ′54'27	1.37257 AU
minimum elong	5145 May 18 17:40	29° 8 30'56	0°48'01				
	5145 May 18 23:23	Π $\circ 0$		superior conj	5146 May 02 00:06	12° 8 31'31	
asc. node	5145 May 23 12:06	9° Ⅱ 20'05		minimum elong	5146 May 02 04:22	12° 8 52'15	1°17'09
evening rise	5145 May 26 10:36	15° Ⅱ 24'33		asc. node	5146 May 10 09:07	29° 8 10'27	
	5145 Jun 02 22:16	0 \circ \odot		evening rise	5146 May 10 12:50	29° 8 29'00	
evening max el	5145 Jun 13 18:02	15° © 16'03	20°25'29		5146 May 10 19:03	$\Pi^{\circ}0$	
retrograde	5145 Jun 24 17:32	20°538'38		evening max el	5146 May 27 09:32	26° Ⅲ 53'48	19°20'42
evening set	5145 Jun 26 17:02	20° © 28'53		•	5146 May 31 10:47	0°ಅ	
desc. node	5145 Jun 28 20:33	19° © 57'44		retrograde	5146 Jun 05 15:29	1° © 24'50	
inferior conj	5145 Jul 05 21:47	16°931'24	-2°05'25	evening set	5146 Jun 07 14:34	1° © 13'32	
minimum elong	5145 Jul 05 15:56	16°939'55	2°03'19	evening see	5146 Jun 11 05:08	30°RⅡ	
min. Earth dist.	5145 Jul 07 06:19	15°544'03	0.54945 AU	desc. node	5146 Jun 15 17:33	27° I I22'14	
morning rise	5145 Jul 14 13:48	12° 9 21'37	0.54745 AO	inferior conj	5146 Jun 16 03:33	27° I 105'52	0007126
•						27° I 105'32	0°07'19
direct	5145 Jul 18 12:23	11°548'04	22021120	minimum elong	5146 Jun 16 03:14		
morning max el	5145 Jul 31 22:23	18°9518'51	23°31'29	transit middle	5146 Jun 16 03:14	27° I 106'24	0°07'19
	5145 Aug 10 12:31	0° Ω		transit begin	5146 Jun 15 23:48	27° Ⅱ 12'02	
asc. node	5145 Aug 19 11:21	15° Ω 24'42		transit end	5146 Jun 16 06:40	27° Ⅱ 00'46	
morning set	5145 Aug 24 14:46	25° Ω 52'27		min. Earth dist.	5146 Jun 18 20:24	25° Ⅱ 20'04	0.55968 AU
	5145 Aug 26 13:12	O° Mp		morning rise	5146 Jun 24 13:00	22° Ⅱ 23'00	
				direct	5146 Jun 29 08:59	21° Ⅱ 29'44	
superior conj	5145 Aug 31 14:45	10° m 56'46	1°37'07	morning max el	5146 Jul 13 11:53	28° ∏ 39'32	25°13'21
minimum elong	5145 Aug 31 13:10	10°Mp48'17	1°37'00		5146 Jul 14 20:21	0 \circ \odot	
max. Earth dist.	5145 Sep 03 02:14	16° m 14'44	1.33404 AU		5146 Aug 03 19:57	$\mathfrak{O}^{\circ}\mathfrak{O}$	
evening rise	5145 Sep 08 04:18	26° Mp 43'58		asc. node	5146 Aug 06 08:23	5° Ω 00'51	
	5145 Sep 09 19:59	0∘ ত		morning set	5146 Aug 09 02:24	10° Ω 44'20	
desc. node	5145 Sep 24 19:51	26° ≏ 05'36		Č	Č		
	5145 Sep 27 10:36	0° M		superior conj	5146 Aug 16 00:40	25° Ω 48'29	1°25'46
evening max el	5145 Oct 12 05:43	18° ML 07'01	27°22'27	minimum elong	5146 Aug 15 22:30	25° Ω 36'36	1°25'29
retrograde	5145 Oct 25 18:52	25°M25'28		max. Earth dist.	5146 Aug 17 07:48	28° Ω 38'44	1.32501 AU
evening set	5145 Nov 01 19:36	22°M46'41		max. Earth dist.	5146 Aug 17 22:43	0° m)	1.52501710
min. Earth dist.	5145 Nov 05 13:58	19°M21'11	0.64285 AU	evening rise	5146 Aug 23 03:42	11° Mp 03'26	
		16°M48'14		evening rise	Č	0° ⊽	
inferior conj	5145 Nov 07 23:47			1 1	5146 Sep 02 01:48		
minimum elong	5145 Nov 08 04:04	16°M36'53	2-25/29	desc. node	5146 Sep 11 16:51	15° £ 22'43	
morning rise	5145 Nov 14 13:53	11°M23'27			5146 Sep 23 13:53	0° ™	
asc. node	5145 Nov 15 10:33	11°M05'13		evening max el	5146 Sep 24 15:21	1° M 01'44	27°24'08
direct	5145 Nov 17 02:28	10°M51'04		retrograde	5146 Oct 08 09:56	8°M16'15	
morning max el	5145 Nov 23 14:29	14°M16'17	17°54'15	evening set	5146 Oct 15 14:06	5°M48'30	
	5145 Dec 04 15:25	0°⊀		min. Earth dist.	5146 Oct 19 05:19	2°M52'01	0.62510 AU
morning set	5145 Dec 10 15:51	10° ₹ 09′20		inferior conj	5146 Oct 22 02:15	0°M09'10	-3°29'49
desc. node	5145 Dec 21 19:06	28° х 43′26		minimum elong	5146 Oct 22 08:07	29° ≙ 55'17	3°27'56
	5145 Dec 22 13:55	万 °0			5146 Oct 22 06:08	30° Ŗ Ω	
				morning rise	5146 Oct 29 03:51	25° ჲ 02'12	
superior conj	5145 Dec 23 20:42	2° る 04'40	-0°14'25	direct	5146 Oct 31 12:25	24° ≏ 37'07	
minimum elong	5145 Dec 23 19:01	1°る57'52		asc. node	5146 Nov 02 07:35	24° £ 52'09	
behind sun begin	5145 Dec 23 14:05	1° る 37'55		morning max el	5146 Nov 07 06:51	28° ⊆ 04'41	17°50'08
behind sun end	5145 Dec 23 23:57	2°る17'49		morning max or	5146 Nov 09 01:09	0°M	1, 2000
max. Earth dist.	5145 Dec 28 21:24		1.44743 AU	morning set	5146 Nov 23 06:46	22°M57'28	
max. Latur Wist.	5175 DCC 20 21.24	10 00/12	1.77/73 AU	morning set	31701101 23 00.40	22 IIVJ 20	

·	2		Č	` //			_
	5146 Nov 27 06:01	0° ∡ 7		minimum elong	5147 Nov 16 13:05	24° M 49'17	1°01'48
	27.01.07.27 00.01			g	5147 Nov 19 11:43	0° ⊼	1 01 10
superior conj	5146 Dec 04 13:59	12° х 40′28	0°28'40	max. Earth dist.	5147 Nov 24 00:55		1.41759 AU
minimum elong	5146 Dec 04 16:37	12° ₹ 51'36	0°28'18	desc. node	5147 Nov 25 13:09	10° ∡ 16'49	
desc. node	5146 Dec 08 16:07	19° ∡ ¹29'54		evening rise	5147 Nov 29 10:08	16° ∡ ³35'51	
max. Earth dist.	5146 Dec 11 13:27	24° х 12'58	1.43513 AU	0.00000	5147 Dec 08 00:35	0°る	
	5146 Dec 15 04:05	0°ਰ			5147 Dec 29 21:51	0° ≈	
evening rise	5146 Dec 19 09:18	6° る 37'04		evening max el	5148 Jan 01 19:54	3° ≈ 08'56	22°42'58
8	5147 Jan 03 23:59	0° ≈		retrograde	5148 Jan 11 18:44	9° ≈ 03'32	
evening max el	5147 Jan 19 02:43	19° ≈ 31'50	21°25'34	asc. node	5148 Jan 16 03:51	7° ≈ 24'09	
retrograde	5147 Jan 27 22:57	24°≈46'26		evening set	5148 Jan 16 12:09	7° ≈ 07'31	
asc. node	5147 Jan 29 06:50	24°≈36'59		inferior conj	5148 Jan 21 20:58	0°≈44'27	1°49'30
evening set	5147 Feb 01 04:50	23°≈06'13		minimum elong	5148 Jan 21 18:50	0° ≈ 51'53	1°48'45
inferior conj	5147 Feb 06 12:55	16° ≈ 50'33	2°29'06	min. Earth dist.	5148 Jan 21 15:08	1°≈04'39	0.68120 AU
minimum elong	5147 Feb 06 10:30	16°≈58'55	2°28'25		5148 Jan 22 09:50	30°R₹	
min. Earth dist.	5147 Feb 06 18:41	16° ≈ 30'33	0.67956 AU	morning rise	5148 Jan 27 01:24	24° る 35'43	
morning rise	5147 Feb 11 15:59	10°≈38'15		direct	5148 Jan 31 14:04	22° る 44'22	
direct	5147 Feb 16 19:14	8°≈24'09		morning max el	5148 Feb 09 14:26		21°46'33
morning max el	5147 Feb 27 01:30	14° ≈ 29'37	23°13'22		5148 Feb 11 11:47	0° ≈	
desc. node	5147 Mar 06 15:21	23°≈18′21		desc. node	5148 Feb 21 12:23	12° ≈ 47'27	
acse. noac	5147 Mar 11 15:39	0° ∀		dose. node	5148 Mar 04 07:04	0° ∀	
	5147 Mar 31 10:35	$0^{\circ}\Upsilon$		morning set	5148 Mar 12 23:21	13° ¥ 30′59	
morning set	5147 Apr 02 22:22	4° Υ 07'52		max. Earth dist.	5148 Mar 19 02:34	23° H 30'41	1.41587 AU
max. Earth dist.	5147 Apr 02 22:22 5147 Apr 07 03:08	11° Υ 17'34	1.39440 AU	max. Lartii dist.	5148 Mar 22 22:59	0°Υ	1.41507 710
max. Dartii dist.	3147 Apr 07 03.00	11 11/54	1.57440710		3140 Widi 22 22.37	0 1	
superior conj	5147 Apr 14 18:42	25° Y ′00′39	-1°43'50	superior conj	5148 Mar 26 18:04	6° Ƴ 33'57	-2°02'38
minimum elong	5147 Apr 14 23:44	25° Υ 23'55		minimum elong	5148 Mar 26 21:51	6°Υ50'32	
minimum crong	5147 Apr 17 10:47	0°8	1 15 10	evening rise	5148 Apr 06 12:35	26° Y '02'35	2 02 20
evening rise	5147 Apr 24 06:40	13° 8 04'23		evening rise	5148 Apr 08 16:14	0°8	
asc. node	5147 Apr 27 06:08	18° 8 45'40		asc. node	5148 Apr 13 03:09	8° 8 00'31	
use. Houe	5147 May 03 13:35	0°II		evening max el	5148 Apr 22 20:04	_	18°11'51
evening max el	5147 May 10 11:20	9° I I10'03	18°36'12	retrograde	5148 Apr 29 18:24	25° 8 26'21	10 1131
retrograde	5147 May 18 07:35	13° I I02'09	10 30 12	evening set	5148 May 02 06:14	24° 8 59'54	
evening set	5147 May 20 12:36	12° Ⅱ 44'47		inferior conj	5148 May 09 04:54	20° 8 12'49	2°38'05
inferior conj	5147 May 28 05:33	8° I I18'18	1°30'44	minimum elong	5148 May 09 08:16	20° 8 05'15	2°37'15
minimum elong	5147 May 28 08:33	8° I I12'33	1°29'46	min. Earth dist.	5148 May 12 13:46	17° 8 12'59	0.59846 AU
min. Earth dist.	5147 May 31 14:03	5° I I45'07	0.57713 AU	morning rise	5148 May 16 07:41	14° 8 27'31	0.570 10 710
desc. node	5147 Jun 02 14:35	4° Ⅱ 22'01	0.57715110	desc. node	5148 May 19 11:36	13° 8 00'34	
morning rise	5147 Jun 05 01:15	3° I I00'18		direct	5148 May 22 18:40	12° 8 30'01	
direct	5147 Jun 10 19:21	1° I I37'12		morning max el	5148 Jun 06 03:15	20° 8 22'26	27°34'32
morning max el	5147 Jun 25 04:22	9° I 13'08	26°38'58	morning max or	5148 Jun 14 09:45	0°II	27 3132
morning max or	5147 Jul 10 23:02	0°9	20 30 30		5148 Jul 02 19:17	0°©	
asc. node	5147 Jul 24 05:25	24°952'08		morning set	5148 Jul 07 19:53	10°505'27	
morning set	5147 Jul 24 12:40	25°930'23		asc. node	5148 Jul 10 02:27	14°953'28	
morning sec	5147 Jul 26 15:09	0° Ω		max. Earth dist.	5148 Jul 14 05:24		1.31947 AU
	211, 001 20 10.09	v 00		man. Darun dige.	21.0001 1. 00.2.	25 001 .2	1.515 1, 110
superior conj	5147 Jul 31 12:17	10° Ω 42'35	1°09'35	superior conj	5148 Jul 14 23:52	25° © 33'26	0°49'09
minimum elong	5147 Jul 31 09:59	10° Ω 29'54	1°09'11	minimum elong	5148 Jul 14 21:55	25° © 22'42	0°48'46
max. Earth dist.	5147 Jul 31 18:05	11° Ω 14'39	1.32018 AU		5148 Jul 17 00:10	$0^{\circ}\Omega$	
evening rise	5147 Aug 07 09:23	25° Ω 39'20		evening rise	5148 Jul 21 19:02	10° Ω 24'33	
8	5147 Aug 09 11:38	0° m		8 11	5148 Jul 31 18:50	0° m)	
	5147 Aug 26 17:41	0 o $\overline{\mathbf{v}}$		desc. node	5148 Aug 15 10:54	21° m) 17'42	
desc. node	5147 Aug 29 13:53	3° £ 53'06		evening max el	5148 Aug 18 16:22	24° m) 38'26	25°48'44
evening max el	5147 Sep 06 19:39	13° ≏ 14'49	26°52'35	<i>8</i>	5148 Aug 25 22:25	0∘ ⊽	
retrograde	5147 Sep 20 17:11	20° £ 24'50		retrograde	5148 Sep 01 15:22	1° Ω 44'54	
evening set	5147 Sep 27 15:55	18° £ 19'58		evening set	5148 Sep 07 20:10	0° Ω 13'44	
min. Earth dist.	5147 Oct 01 09:45		0.60503 AU	8	5148 Sep 08 07:21	30°R. M)	
inferior conj	5147 Oct 04 14:34	13° ⊆ 03'01		min. Earth dist.	5148 Sep 12 04:36		0.58435 AU
minimum elong	5147 Oct 04 20:46	12° ⊆ 50'06		inferior conj	5148 Sep 15 09:11	25° mp 19'51	
morning rise	5147 Oct 04 20:40 5147 Oct 12 03:37	8° £ 17'23		minimum elong	5148 Sep 15 13:08	25° m 12'42	
direct	5147 Oct 12 03:37 5147 Oct 14 11:24	7° £ 56'32		morning rise	5148 Sep 23 08:23	20° m 57'30	
asc. node	5147 Oct 20 04:37	10° ⊆ 09'08		direct	5148 Sep 25 18:44	20° m/38'31	
morning max el	5147 Oct 20 04:57 5147 Oct 21 19:55	10 ⊆ 0700	18°05'02	morning max el	5148 Oct 04 02:18		18°40'18
	5147 Oct 21 15:55 5147 Nov 03 01:24	0°M	10 00 02	asc. node	5148 Oct 06 01:41	26° Mp 42'50	10 10 10
morning set	5147 Nov 05 01:24 5147 Nov 06 14:04	6°M32'02		acc. noue	5148 Oct 08 14:57	20 ஆ - 2 30	
	221.0, 00 17.07	3 11032 02		morning set	5148 Oct 20 08:45	0 — 20° ≏ 38'16	
superior conj	5147 Nov 16 09:08	24°M31'42	1°02'18		5148 Oct 25 04:16	0°M	
	32.7.2.07.20 07.00	110.51 12	10		500 25 01.10	- 110	

superior conj	5148 Oct 29 01:24	7° ጤ 24'14	1°25'19	minimum elong	5149 Oct 12 11:16	21° £ 11'56	1°38'28
minimum elong	5148 Oct 29 04:41	7° M 39'37			5149 Oct 17 00:40	0°M	
max. Earth dist.	5148 Nov 05 07:14	20°M34'27	1.39702 AU	max. Earth dist.	5149 Oct 18 11:49	2° M 44'21	1.37607 AU
evening rise	5148 Nov 09 08:44	27°M33'44		evening rise	5149 Oct 22 05:57	9° ™ 33'43	
-	5148 Nov 10 19:40	0° ∡ ¹		desc. node	5149 Oct 29 07:13	21°M36'09	
desc. node	5148 Nov 11 10:11	1° ₹ '00'09			5149 Nov 03 13:55	0° ∡ ¹	
	5148 Nov 30 14:20	0°ರ			5149 Nov 26 09:24	ರ°ರ	
evening max el	5148 Dec 14 09:43	16° る 48'45	24°02'56	evening max el	5149 Nov 26 22:20	0° る 32'04	25°18'40
retrograde	5148 Dec 25 11:15	23° る 19'17		retrograde	5149 Dec 08 23:28	7° る 29'06	
evening set	5148 Dec 30 17:28	21° る 07'52		evening set	5149 Dec 14 19:08	5° る 03'57	
asc. node	5149 Jan 02 00:54	18° る 46'23		min. Earth dist.	5149 Dec 19 05:45	0° る 08'40	0.67347 AU
min. Earth dist.	5149 Jan 04 11:36	15° る 38'23	0.67910 AU		5149 Dec 19 08:26	30°₽ ⋌	
inferior conj	5149 Jan 05 04:25	14° る 41'27	1°02'46	asc. node	5149 Dec 19 21:58	29° х 16′12	
minimum elong	5149 Jan 05 03:00	14° る 46'15	1°02'12	inferior conj	5149 Dec 20 09:27	28° ₹ 38'52	0°09'46
morning rise	5149 Jan 10 12:35	8° 云 37'53		minimum elong	5149 Dec 20 09:12	28° ∡ ³39'40	0°09'40
direct	5149 Jan 14 11:29	7° る 09'06		transit middle	5149 Dec 20 09:12	28° ⋌ ³39'40 –	0°09'40
morning max el	5149 Jan 22 10:16	11° る 41'45	20°28'58	transit begin	5149 Dec 20 06:58	28° ⋌ ¹46'56	
	5149 Feb 05 12:44	0° ≈		transit end	5149 Dec 20 11:26	28° ⋌ 32'25	
desc. node	5149 Feb 07 09:26	2°≈43'34		morning rise	5149 Dec 25 23:33	22° × ⁷ 42'33	
morning set	5149 Feb 20 00:41	21°≈51'45		direct	5149 Dec 29 10:16	21° × ⁷ 34'05	10024152
F 41 11 4	5149 Feb 25 05:25	0° ∀	1 42414 ATT	morning max el	5150 Jan 05 13:58	25° ∡ ³34′02	19°24'52
max. Earth dist.	5149 Mar 01 08:53	6° Ж 36'51	1.43414 AU		5150 Jan 09 11:07	0°궁 13°궁06'14	0.7
superior aoni	5140 Mar 07 17:27	17° ₩ 01'06	2000152	greatest brilliancy desc. node	5150 Jan 18 18:19	13°806°14 22° る 59'17	-0.7m
superior conj minimum elong	5149 Mar 07 17:27 5149 Mar 07 16:48	16°\(\frac{1}{16}\)58'22		morning set	5150 Jan 25 06:28 5150 Jan 29 22:46	0°≈11'56	
minimum ciong	5149 Mar 15 09:00	10 γ (38 22	2 08 32	morning set	5150 Jan 29 19:41	0°≈	
evening rise	5149 Mar 20 02:15	8° Υ 13'49		max. Earth dist.	5150 Feb 11 22:00	0 ∞ 20°≈26'42	1.44700 AU
asc. node	5149 Mar 31 00:12	26° Υ 48'01		max. Lattii dist.	3130100 11 22.00	20 ~20 42	1.44700 AC
use. node	5149 Apr 02 03:58	0°8		superior conj	5150 Feb 15 15:35	26° ≈ 22'24	-1°57'13
evening max el	5149 Apr 06 08:21	5° 8 05'32	18°07'05	minimum elong	5150 Feb 15 08:38	25°≈54'40	
retrograde	5149 Apr 12 19:57	8° 8 27'34	10 0, 00	g	5150 Feb 17 21:55	0° ∀	1 00 .0
evening set	5149 Apr 15 14:13	7° 8 50'07		evening rise	5150 Mar 01 19:15	19° ¥ 29'51	
inferior conj	5149 Apr 21 22:26	2° 8 43'14	3°16'31	C	5150 Mar 08 02:22	0° Υ	
minimum elong	5149 Apr 22 00:34	2° 8 37'46	3°16'12	asc. node	5150 Mar 17 21:14	14° Y ′59'21	
_	5149 Apr 24 14:11	30° ₹ Υ		evening max el	5150 Mar 20 21:08	18° Y ′27'50	18°21'07
min. Earth dist.	5149 Apr 24 21:41	29° Ƴ 41'31	0.62035 AU	retrograde	5150 Mar 27 07:44	21° Y ′56′10	
morning rise	5149 Apr 28 09:14	26° Ƴ 41'21		evening set	5150 Mar 30 08:18	21° Y ′06'25	
direct	5149 May 05 04:50	24° Ƴ 13'59		inferior conj	5150 Apr 05 06:00	15° Y '40'53	3°31'56
desc. node	5149 May 06 08:38	24° Y 17'59		minimum elong	5150 Apr 05 06:30	15° Y ′39'29	3°31'55
	5149 May 16 23:07	9° 8		min. Earth dist.	5150 Apr 07 14:45	12° Y ′58'54	0.64031 AU
morning max el	5149 May 19 08:12	_	27°53'00	morning rise	5150 Apr 11 03:48	9° Ƴ 30'37	
	5149 Jun 08 18:03	$\Pi^{\circ}0$		direct	5150 Apr 17 23:28	6° Y 45′06	
morning set	5149 Jun 21 22:04	24° Ⅱ 23'15		desc. node	5150 Apr 23 05:40	8° Y ′08′15	
	5149 Jun 24 15:05	0ංම		morning max el	5150 May 01 16:53	14° Y 43'11	27°34'26
asc. node	5149 Jun 26 23:30	5° © 00'17			5150 May 14 03:09	0° 8	
max. Earth dist.	5149 Jun 27 13:44	6° © 16'56	1.32299 AU		5150 Jun 01 09:38	0°II	
	5140 1 20 00 40	100015122	0025102	morning set	5150 Jun 05 16:38	8° Ⅱ 15'05	1 22105 ATT
superior conj	5149 Jun 29 09:40 5149 Jun 29 08:32	10°5015'32		max. Earth dist.	5150 Jun 10 15:05	18°Щ1/45	1.33105 AU
minimum elong	5149 Jul 06 06:37	10°©09'20 25°©12'37	0°24'48	superior conj	5150 Jun 13 15:43	24° ∏ 41'51	0002106
evening rise	5149 Jul 08 13:18	23 3 1237		minimum elong	5150 Jun 13 15:49	24 ∏ 41 31 24° ∏ 42'24	
	5149 Jul 26 10:23	0° m)		behind sun begin	5150 Jun 13 10:28	24° Ⅱ 42′24 24° Ⅱ 13'47	0 02 03
evening max el	5149 Jul 31 06:28	5° Mp 19'20	24°20'51	behind sun end	5150 Jun 13 21:11	25° I 11'02	
desc. node	5149 Aug 02 07:55	7° mp 10'38	24 20 31	asc. node	5150 Jun 13 20:32	25° I 17'02	
retrograde	5149 Aug 14 02:32	12° m 17'38		asc. node	5150 Jun 16 02:57	0°95	
evening set	5149 Aug 19 00:05	11° m) 24'12		evening rise	5150 Jun 20 18:12	9° 9 56'29	
min. Earth dist.	5149 Aug 24 17:25	8° m 30'49	0.56577 AU		5150 Jul 01 03:14	0°N	
inferior conj	5149 Aug 27 07:49	6° Mp 52'35		evening max el	5150 Jul 12 19:37	15° Ω 40'47	22°43'17
minimum elong	5149 Aug 27 06:13	6° m 55'07		desc. node	5150 Jul 20 04:56	20° Ω 57'45	
morning rise	5149 Sep 04 14:49	2° m 51'03		retrograde	5150 Jul 26 00:49	22° Ω 15'41	
direct	5149 Sep 07 07:05	2°m/31'53		evening set	5150 Jul 29 09:48	21° Ω 50'46	
morning max el	5149 Sep 16 22:48	7° m 02'42	19°37'09	min. Earth dist.	5150 Aug 06 03:39	18° Ω 25'53	0.55266 AU
asc. node	5149 Sep 22 22:45	14° m 18'13		inferior conj	5150 Aug 07 11:40	17° Ω 40′06	-4°39'15
	5149 Oct 01 21:35	0∘ ত		minimum elong	5150 Aug 07 04:06	17° Ω 50'58	4°37'49
morning set	5149 Oct 04 11:14	5° ≏ 06'41		morning rise	5150 Aug 16 00:27	13° Ω 49′50	
				direct	5150 Aug 19 01:35	13° Ω 28′20	
superior conj	5149 Oct 12 09:28	21° ≏ 03'04	1°38'34	morning max el	5150 Aug 30 07:07	18° Ω 42'12	20°55'34

	5150 Sep 08 04:44	0° m		direct	5151 Jul 30 10:46	23° © 34'33	
asc. node	5150 Sep 09 19:48	2° Mp 40'33		morning max el	5151 Aug 12 04:07	29° © 37'02	22°31'45
morning set	5150 Sep 18 18:47	19° m 49'05		morning max cr	5151 Aug 12 04:07 5151 Aug 12 13:50	0°Ω	22 31 43
morning sec	5150 Sep 23 16:03	0∘ ⊽		asc. node	5151 Aug 27 16:50	21° Ω 38'29	
					5151 Aug 31 23:20	0° m/y	
superior conj	5150 Sep 26 04:45	5° ≙ 14'26	1°43'25	morning set	5151 Sep 03 05:18	4° m) 39'34	
minimum elong	5150 Sep 26 05:00	5° £ 15'42	1°43'25		•		
max. Earth dist.	5150 Sep 30 20:36	14° ≏ 37′29	1.35699 AU	superior conj	5151 Sep 10 07:47	19° m 48'04	1°41'11
evening rise	5150 Oct 04 22:24	22° ჲ 26'40		minimum elong	5151 Sep 10 06:46	19° m 42'37	1°41'08
	5150 Oct 09 01:58	0°M		max. Earth dist.	5151 Sep 13 13:33	26° ₩ 36'01	1.34129 AU
desc. node	5150 Oct 16 04:15	11°M59'37			5151 Sep 15 05:21	0∘ ⊽	
	5150 Oct 28 08:11	0° ∡		evening rise	5151 Sep 18 05:49	6° ≏ 01'24	
evening max el	5150 Nov 09 11:09	14° ₹ 15'10	26°22'49		5151 Oct 01 17:49	0° ™	
retrograde	5150 Nov 22 06:29	21° × ⁷ 27'13		desc. node	5151 Oct 03 01:15	2°M04'25	27007151
evening set	5150 Nov 28 15:20	18° 🖈 51'45	0.66422.411	evening max el	5151 Oct 22 23:53	27°M48'53	2/90/51
min. Earth dist. inferior conj	5150 Dec 02 19:09 5150 Dec 04 10:09	14° ₹ 31'43 12° ₹ 33'09	0.66433 AU	retrograde	5151 Oct 25 10:17 5151 Nov 05 07:40	0° ⋪ 5° ⋪06'28	
minimum elong	5150 Dec 04 10:09 5150 Dec 04 11:28	12 × 33 09 12° × 29'06	0°47'54	evening set	5151 Nov 03 07:40 5151 Nov 12 03:52	2° × 26'25	
asc. node	5150 Dec 04 11:28 5150 Dec 06 19:01	9° × ⁷ 47'16	0 47 34	evening set	5151 Nov 12 03:32 5151 Nov 14 19:57	30°RM	
morning rise	5150 Dec 10 08:13	6°×746'41		min. Earth dist.	5151 Nov 16 01:24	28°M41'46	0.65171 AU
direct	5150 Dec 13 08:39	5° × 755'10		inferior conj	5151 Nov 18 04:17	26°M19'27	
morning max el	5150 Dec 20 00:33	9° ∡ ³33'36	18°36'29	minimum elong	5151 Nov 18 07:29	26°M10'31	1°49'14
C	5151 Jan 03 14:52	0° ට		asc. node	5151 Nov 23 16:04	21°M13'03	
morning set	5151 Jan 09 17:32	9° ⋜ 39'46		morning rise	5151 Nov 24 12:08	20°M45'55	
desc. node	5151 Jan 12 03:29	13° る 29'06		direct	5151 Nov 27 04:26	20° M $07'34$	
	5151 Jan 22 15:17	0° ≈		morning max el	5151 Dec 03 15:43	23°M34'41	18°04'46
					5151 Dec 08 20:10	0°⊀	
superior conj	5151 Jan 25 20:28	5° ≈ 02'37		morning set	5151 Dec 21 17:52	20° ∡ 36′25	
minimum elong	5151 Jan 25 11:09		1°25'00		5151 Dec 27 11:16	0°る	
max. Earth dist.	5151 Jan 25 16:08	4°≈45'37	1.45300 AU	desc. node	5151 Dec 30 00:30	4° る 08'15	
evening rise	5151 Feb 10 13:00	29° ≈ 48'59 0° 米		aumorior comi	5150 Ion 05 02:51	13° る 53'39	0041121
greatest brilliancy	5151 Feb 10 15:46 5151 Feb 18 23:24	13° ¥ 14'58	0.8m	superior conj minimum elong	5152 Jan 05 02:51 5152 Jan 04 21:43	13° る 33'21	
greatest orimancy	5151 Mar 02 13:04	0°Υ	-0.0111	max. Earth dist.	5152 Jan 08 11:54	19°る13'43	1.45155 AU
evening max el	5151 Mar 04 07:49	1° Υ 57'48	18°53'04	max. Earth dist.	5152 Jan 15 09:14	0°≈	1.43133710
asc. node	5151 Mar 04 18:16	2° Υ 23'46		evening rise	5152 Jan 21 09:53	9° ≈ 20'54	
retrograde	5151 Mar 11 01:55	5° Ƴ 44'34		greatest brilliancy	5152 Feb 03 16:54	29° ≈ 41′08	-0.7m
evening set	5151 Mar 14 09:12	4° Υ 41'39			5152 Feb 03 21:57	0°) €	
	5151 Mar 19 04:06	30° ₹		evening max el	5152 Feb 15 14:18	15°) 30′11	19°41'35
inferior conj	5151 Mar 19 23:48	28°) 59′02	3°29'53	asc. node	5152 Feb 19 15:18	18°) 47′13	
minimum elong	5151 Mar 19 22:53	29° ∺ 01'54		retrograde	5152 Feb 22 23:24	19° ∺ 45'57	
min. Earth dist.	5151 Mar 21 16:51	26° ∺ 51′08	0.65669 AU	evening set	5152 Feb 26 14:18	18° ∺ 29'08	
morning rise	5151 Mar 25 12:09	22°) 45'09		inferior conj	5152 Mar 03 00:37	12°) € 31′24	3°14'26
direct	5151 Apr 01 00:57	19° ¥ 55′24		minimum elong	5152 Mar 02 22:45	12°) €37'38	3°14'09
desc. node	5151 Apr 10 02:41	23° H 59'47	26944120	min. Earth dist.	5152 Mar 04 02:50	11°) (04'35	0.66887 AU
morning max el	5151 Apr 14 02:53 5151 Apr 16 08:10	27°) 39'14 0° °	26°44'20	morning rise direct	5152 Mar 08 06:58 5152 Mar 14 08:18	6° 光 16'40 3° 光 34'36	
	5151 May 07 19:57	0°8		morning max el	5152 Mar 26 12:19	10° H 50'28	25°31'09
morning set	5151 May 20 00:25	21° 8 31'55		desc. node	5152 Mar 26 23:43	11° H 19'36	20 31 0)
	5151 May 24 08:37	0°II			5152 Apr 10 18:16	0°Υ	
max. Earth dist.	5151 May 24 06:22		1.34383 AU		5152 Apr 29 11:20	0°8	
	·			morning set	5152 May 01 17:06	4° 8 01'17	
superior conj	5151 May 28 15:53	8° Ⅱ 46′18	-0°31'16	max. Earth dist.	5152 May 05 10:33	10° 8 55'43	1.36104 AU
minimum elong	5151 May 28 17:34	8° Ⅱ 55′03	0°30'57				
asc. node	5151 May 31 17:33	15° Ⅱ 11'43		superior conj	5152 May 11 07:23	22° 8 20'48	
evening rise	5151 Jun 05 03:56	24° ∏ 30′29		minimum elong	5152 May 11 10:47	22° 8 37'45	1°00'32
	5151 Jun 07 20:08	0ංම			5152 May 15 02:16	Π $^{\circ}0$	
evening max el	5151 Jun 24 15:47	26°©16'01	21°11'22	asc. node	5152 May 17 14:35	5° Ⅱ 08'15	
natus a J-	5151 Jun 29 09:07	0° Ω		evening rise	5152 May 19 09:37	8° Ⅱ 47'39 0° ©	
retrograde desc. node	5151 Jul 06 13:55 5151 Jul 07 01:56	2° Ω 08'24 2° Ω 07'48		evening max el	5152 May 30 23:58 5152 Jun 05 23:57	7° ഇ 28'09	10°55'22
evening set	5151 Jul 07 01:36 5151 Jul 08 20:41	1° Ω 56'17		retrograde	5152 Jun 16 05:24	12° © 28'21	17 33 44
evening set	5151 Jul 14 10:13	1 8€ 3017 30°Rூ		evening set	5152 Jun 18 03:24	12 \$28 21 12°\$18'34	
inferior conj	5151 Jul 18 05:06	27°958'05	-3°11'26	desc. node	5152 Jun 22 22:55	10°938'53	
minimum elong	5151 Jul 17 20:49	28° © 09'42		inferior conj	5152 Jun 27 02:27	8°917'50	-1°14'26
min. Earth dist.	5151 Jul 18 13:57	27° © 45'39	0.54792 AU	minimum elong	5152 Jun 26 23:00	8° © 23'05	
morning rise	5151 Jul 26 21:27	24° © 01'46		min. Earth dist.	5152 Jun 29 02:17	7° © 05'15	0.55276 AU

morning rise	5152 Jul 05 16:44	3° © 55'18		min. Earth dist.	5153 Jun 10 17:55	16° ∏ 59'20	0.56632 AU
direct	5152 Jul 09 23:41	3° © 15'01		morning rise	5153 Jun 15 20:32	10 H 3920 14° H 08'44	0.50052 AC
morning max el	5152 Jul 23 18:38	10°903'20	24°15'52	direct	5153 Jun 21 01:58	13° Ⅱ 03'54	
morning max cr	5152 Aug 07 14:59	0°Ω	24 13 32	morning max el	5153 Jul 05 09:01	20° I I27'07	25°52'45
asc. node	5152 Aug 13 13:52	11° Ω 03'04		moning man er	5153 Jul 13 14:07	0°50	20 02 .0
morning set	5152 Aug 17 17:02	19° Ω 32'57		asc. node	5153 Jul 31 10:53	0° Ω 46'31	
morning sec	5152 Aug 22 13:13	0° m		450. 11040	5153 Jul 31 01:51	0°Ω	
	01021148 22 10.10	·		morning set	5153 Aug 02 04:18	4° Ω 23'21	
superior conj	5152 Aug 24 15:52	4° m 35'47	1°32'56				
minimum elong	5152 Aug 24 13:59	4° m) 25'33	1°32'45	superior conj	5153 Aug 09 02:45	19° Ω 29'45	1°19'27
max. Earth dist.	5152 Aug 26 15:01	8° m 50'39	1.32967 AU	minimum elong	5153 Aug 09 00:28	19° Ω 17'11	
evening rise	5152 Sep 01 00:20	20° m 07'31		max. Earth dist.	5153 Aug 09 22:52	21° Ω 20'28	1.32237 AU
C	5152 Sep 06 01:33	0∘ ত			5153 Aug 13 22:34	0° m)	
desc. node	5152 Sep 18 22:15	21° ≏ 42'32		evening rise	5153 Aug 16 02:43	4° Mp 35'05	
	5152 Sep 24 19:38	0° M .			5153 Aug 29 17:48	0∘ ⊽	
evening max el	5152 Oct 04 11:08	11°ML01'33	27°26'58	desc. node	5153 Sep 05 19:16	10° ≙ 42'07	
retrograde	5152 Oct 18 02:44	18°ML18'42		evening max el	5153 Sep 16 18:37	23° ჲ 39'34	27°14'49
evening set	5152 Oct 25 06:00	15°M42'53			5153 Sep 26 01:45	0°M	
min. Earth dist.	5152 Oct 28 22:28	12°M30'59	0.63567 AU	retrograde	5153 Sep 30 14:57	0°M53'03	
inferior conj	5152 Oct 31 13:22	9°M52'15	-2°54'03		5153 Oct 05 00:10	30° ₹ Ω	
minimum elong	5152 Oct 31 18:24	9°M39'31	2°52'14	evening set	5153 Oct 07 18:02	28° ഫ 33'15	
morning rise	5152 Nov 07 08:19	4°M34'56		min. Earth dist.	5153 Oct 11 09:11	25° ≏ 46'27	0.61674 AU
direct	5152 Nov 09 18:53	4°MJ06'04		inferior conj	5153 Oct 14 10:14	23° ჲ 02'55	-3°54'58
asc. node	5152 Nov 09 13:05	4°MJ06'21		minimum elong	5153 Oct 14 16:29	22° ≏ 48'55	3°53'12
morning max el	5152 Nov 16 08:40	7°M30'58	17°50'20	morning rise	5153 Oct 21 16:50	18° ≙ 04'55	
	5152 Dec 01 05:21	0° ∡ ¹		direct	5153 Oct 24 00:31	17° ≏ 42'08	
morning set	5152 Dec 02 20:38	2° 渘 50′04		asc. node	5153 Oct 27 10:07	18° ≏ 32'58	
				morning max el	5153 Oct 31 00:08	21° ≏ 13'20	17°54'05
superior conj	5152 Dec 15 05:09	23° ∡ ⁴46′12	0°04'49		5153 Nov 06 15:34	0°M₊	
minimum elong	5152 Dec 15 05:40	23° ∡ ⁴48'19	0°04'45	morning set	5153 Nov 15 19:13	15°M59'55	
behind sun begin	5152 Dec 14 20:23	23° ҂ 10′08			5153 Nov 23 14:07	0° ∡ ″	
behind sun end	5152 Dec 15 14:56	24° ⊀ ¹26'25					
desc. node	5152 Dec 15 21:33	24° ≯ 53'29		superior conj	5153 Nov 26 09:51	4° ≯ 55'36	0°44'12
	5152 Dec 19 00:59	0° ਰ		minimum elong	5153 Nov 26 13:22	5° ₰ 10'49	0°43'43
max. Earth dist.	5152 Dec 21 05:56	3° 云 32'21	1.44292 AU	desc. node	5153 Dec 02 18:34	15° ₹ 40'42	
evening rise	5152 Dec 30 20:13	18° る 33'42		max. Earth dist.	5153 Dec 03 19:40	17° ∡ ¹23'55	1.42817 AU
	5153 Jan 07 08:43	0° ≈		evening rise	5153 Dec 10 11:42	28° ∡ 05'50	
evening max el	5153 Jan 28 15:27	29°≈03'50	20°44'19		5153 Dec 11 16:52	0°る	
	5153 Jan 29 14:11	0° ∀			5154 Jan 01 02:40	0° ≈	
retrograde	5153 Feb 05 21:41	3° ¥ 56'11		evening max el	5154 Jan 11 11:15	12°≈39'14	21°57'50
asc. node	5153 Feb 05 12:19	3° ¥ 55′22		retrograde	5154 Jan 20 18:51	18°≈11'33	
evening set	5153 Feb 09 21:36	2°) €24'46		asc. node	5154 Jan 23 09:21	17°≈35'32	
	5153 Feb 12 08:39	30°R≈	2040110	evening set	5154 Jan 25 05:21	16°≈24'50	2012116
inferior conj	5153 Feb 15 05:56	26°≈14'35	2°48'18 2°47'43	inferior conj	5154 Jan 30 13:33	10°≈05'27	2°13'16 2°12'31
minimum elong	5153 Feb 15 03:34	26°≈22'41		minimum elong	5154 Jan 30 11:12	10°≈13'38	
min. Earth dist. morning rise	5153 Feb 15 18:46 5153 Feb 20 09:22	25°≈30'29 20°≈00'45	0.67681 AU	min. Earth dist.	5154 Jan 30 14:20 5154 Feb 04 16:53	10°≈02'45 3°≈54'13	0.68069 AU
direct	5153 Feb 25 09.22 5153 Feb 25 20:53	20 ≈0043 17°≈34'57		morning rise direct	5154 Feb 04 16.55 5154 Feb 09 13:50	3 ≈34 13 1°≈49'31	
morning max el	5153 Mar 08 21:02	17 ≈3437 24°≈09'20	24°04'50	morning max el	5154 Feb 19 07:15	7°≈34'12	22025136
desc. node	5153 Mar 13 20:46	29°≈43'00	24 04 30	desc. node	5154 Feb 28 17:49	18°≈52'01	22 33 30
dese. Hode	5153 Mar 14 02:24	0° ∺		desc. node	5154 Mar 08 16:57	0° ∀	
	5153 Apr 04 04:41	0° Υ		morning set	5154 Mar 25 06:44	25°) 38′05	
morning set	5153 Apr 04 04:41 5153 Apr 13 13:10	15° Y 28'15		morning set	5154 Mar 27 21:58	25 γ (3603	
max. Earth dist.	5153 Apr 17 06:53	22° Υ 02'15	1.38168 AU	max. Earth dist.	5154 Mar 30 02:38	3° Υ 42'08	1.40368 AU
max. Lartii dist.	5153 Apr 21 15:36	0°8	1.50100710	max. Earth dist.	3134 Widi 30 02.30	3 1 42 00	1.40300710
	5.55.1p. 21 15.50	Ÿ O		superior conj	5154 Apr 06 21:52	17° Ƴ 23'36	-1°53'00
superior conj	5153 Apr 24 10:49	5° 8 16'37	-1°29'27	minimum elong	5154 Apr 07 02:42	17° Y 45'27	
minimum elong	5153 Apr 24 15:34	5° 8 39'14			5154 Apr 13 17:25	0°8	
evening rise	5153 May 03 08:40	22° 8 40'36	. == .>	evening rise	5154 Apr 16 21:55	6° 8 01'21	
asc. node	5153 May 04 11:36	24° 8 52'44		asc. node	5154 Apr 21 08:38	14° 8 20'16	
	5153 May 07 03:13	0°II			5154 May 01 07:11	0°II	
evening max el	5153 May 19 20:08	19° Ⅱ 22'50	18°59'16	evening max el	5154 May 03 01:26	1° ∏ 54'01	18°23'32
retrograde	5153 May 28 10:45	23° I I35'48		retrograde	5154 May 10 10:55	5° ∏ 34'17	•
evening set	5153 May 30 11:46	23° Ⅲ 22'31		evening set	5154 May 12 18:51	5° Ⅱ 13'24	
inferior conj	5153 Jun 07 16:20	19° Ⅱ 07'29	0°37'41	inferior conj	5154 May 20 03:39	0° П 38'35	2°03'06
minimum elong	5153 Jun 07 17:49	19° Ⅱ 04'53	0°37'09	minimum elong	5154 May 20 07:07	0° Д 31'30	2°02'05
desc. node	5153 Jun 09 19:57	17° Ⅱ 36′52		S	5154 May 20 22:22	30° ₹ 8	
					•		

min. Earth dist. morning rise desc. node direct	5154 May 23 14:07 5154 May 27 16:15 5154 May 27 17:00 5154 Jun 02 18:37	27°\850'51 25°\807'42 25°\806'44 23°\829'37	0.58588 AU	min. Earth dist. morning rise desc. node direct	5155 May 05 16:52 5155 May 09 06:55 5155 May 14 14:03 5155 May 15 22:51	9° 8 45'14 6° 8 55'29 4° 8 49'37 4° 8 44'12	0.60791 AU
morning max el	5154 Jun 15 20:35 5154 Jun 17 03:59	0°П 1°П14'17	27°06'49	morning max el	5155 May 30 05:19 5155 Jun 12 22:57	12° 8 40'16 0° П	27°47'04
morning set	5154 Jul 07 17:42 5154 Jul 17 13:30	0° ടെ 19° ടോ 5'48		morning set	5155 Jun 30 00:56 5155 Jul 01 18:48	0°ഇ 3°ഇ33'42	
asc. node	5154 Jul 18 07:55 5154 Jul 22 14:47	20°543'01 0°Ω		asc. node max. Earth dist.	5155 Jul 05 04:58 5155 Jul 07 20:27	10°©46'50 16°©31'14	1.32047 AU
superior conj minimum elong	5154 Jul 24 14:36 5154 Jul 24 12:24	4° Ω 23'49 4° Ω 11'38	1°01'25 1°01'01	superior conj minimum elong	5155 Jul 09 01:37 5155 Jul 08 23:58	19° © 11'16 19° © 02'08	0°39'21 0°39'00
max. Earth dist.	5154 Jul 24 09:56	3° £ 58′02	1.31934 AU		5155 Jul 13 23:51	0°N	
evening rise	5154 Jul 31 10:23	19° Ω 16′23		evening rise	5155 Jul 15 21:05	4° Ω 03'25	
	5154 Aug 05 16:49	0°Тр			5155 Jul 29 15:34	0° m)	
desc. node	5154 Aug 23 16:16	28° m 47'34		desc. node	5155 Aug 10 13:17	15° M) 36'43	25012126
avaning may al	5154 Aug 24 16:05 5154 Aug 29 19:59	0° ჲ 5° ჲ 32'42	26°20'08	evening max el retrograde	5155 Aug 11 13:45 5155 Aug 25 12:09	16° My 36'53 23° My 40'02	25°13'36
evening max el retrograde	5154 Sep 12 18:45	12° £ 41'19	20 29 08	evening set	5155 Aug 31 05:08	23° m) 25'22	
evening set	5154 Sep 19 11:18	10° Ω 49'59		min. Earth dist.	5155 Sep 05 01:22		0.57605 AU
min. Earth dist.	5154 Sep 23 09:36	8° £ 14'47	0.59619 AU	inferior conj	5155 Sep 08 01:45	17° m) 41'25	-5°15'34
inferior conj	5154 Sep 26 15:28	5° ≏ 42'34	-4°46'06	minimum elong	5155 Sep 08 03:41	17° m 38'06	5°15'28
minimum elong	5154 Sep 26 21:07	5° ≙ 31'29	4°45'05	morning rise	5155 Sep 16 04:31	13° m 28'14	
morning rise	5154 Oct 04 09:04	1° Ω 06′29		direct	5155 Sep 18 17:10	13° m 09'15	
direct	5154 Oct 06 17:22	0° Ω 46'48		morning max el	5155 Sep 27 13:11	17° Mp 20'12	19°01'44
asc. node morning max el	5154 Oct 14 07:11 5154 Oct 14 10:45	4° £ 24'21 4° £ 32'54	18°17'20	asc. node	5155 Oct 01 04:14 5155 Oct 06 18:31	21° ™ 25'53 0° ₽	
morning set	5154 Oct 30 07:52	29° £ 49'20	18 17 20	morning set	5155 Oct 14 06:17	0 = 14° £ 06'26	
morning sec	5154 Oct 30 10:07	0°M		morning sec	5155 Oct 22 08:18	0°M	
	5154N 00 1426	170 m 14121	1012110		5155 0 4 22 14 12	00 M 2 0110	1022102
superior conj minimum elong	5154 Nov 08 14:36 5154 Nov 08 18:26	17°M14'21 17°M31'48	1°13'19 1°12'53	superior conj minimum elong	5155 Oct 22 14:12 5155 Oct 22 16:53	0° ጤ 28'19 0° ጤ 41'14	1°32'03 1°31'50
minimum ciong	5154 Nov 15 19:46	0° √	1 12 33	max. Earth dist.	5155 Oct 29 09:57	13°M09'45	1.38808 AU
max. Earth dist.	5154 Nov 16 04:27	0° х 37'06	1.40912 AU	evening rise	5155 Nov 02 05:46	19°M53'48	1.50000710
desc. node	5154 Nov 19 15:36	6° ≯ 26′28		desc. node	5155 Nov 06 12:36	27°ML07'15	
evening rise	5154 Nov 20 21:17	8° ∡ 28'42			5155 Nov 08 06:54	0° ∡ ¹	
	5154 Dec 04 18:46	0°ප			5155 Nov 28 22:35	ರ∘ರ	
evening max el	5154 Dec 25 02:52	26° る 17'46	23°17'10	evening max el	5155 Dec 07 16:07	10° පි 00'06	24°36'07
	5154 Dec 29 08:36	0°≈		retrograde	5155 Dec 19 03:57	16° る 42'25	
retrograde	5155 Jan 04 13:19	2°≈28'13		evening set	5155 Dec 24 15:57	14°る24'51	
evening set	5155 Jan 09 11:59 5155 Jan 09 23:43	0°≈25'50 30°Rる		asc. node min. Earth dist.	5155 Dec 28 03:28 5155 Dec 29 06:48	10°る38'52 9°る10'00	0.67718 AU
asc. node	5155 Jan 10 06:25	30 KO 29° 石 44'12		inferior conj	5155 Dec 30 04:13	9 3 10 00 7° る 58'42	0.67718 AU 0°40'59
inferior conj	5155 Jan 14 21:35	24°る00'59	1°30'31	minimum elong	5155 Dec 30 03:15	8° る 01'57	0°40'36
minimum elong	5155 Jan 14 19:42	24° る 07'29	1°29'48	morning rise	5156 Jan 04 14:40	1°る58'05	
min. Earth dist.	5155 Jan 14 11:07	24° る 36'57	0.68076 AU	direct	5156 Jan 08 08:16	0°₹38'11	
morning rise	5155 Jan 20 03:19	17° る 54'05		morning max el	5156 Jan 15 21:50	4° る 55'00	19°59'54
direct	5155 Jan 24 10:03	16° る 12'15		desc. node	5156 Feb 02 11:54	28° る 39'07	
morning max el	5155 Feb 01 22:39	21° る 08'22	21°12'00		5156 Feb 03 09:24	0° ≈	
daga mada	5155 Feb 09 09:57	0°≈ 8°≈33'40		morning set max. Earth dist.	5156 Feb 11 16:51	12°≈40'41	1 44042 ATT
desc. node	5155 Feb 15 14:52 5155 Mar 01 23:09	0°) (max. Earm dist.	5156 Feb 22 14:50 5156 Feb 22 18:02	29° ≈ 47'16 0° 米	1.44043 AU
morning set	5155 Mar 04 20:03	4°) 29'04			3130100 22 10.02	0 /	
max. Earth dist.	5155 Mar 12 04:42	16°) 17'44	1.42420 AU	superior conj	5156 Feb 27 23:59	8° ¥ 28'08	-2°06'21
	-		-	minimum elong	5156 Feb 27 20:37	8° ∺ 14'24	
superior conj	5155 Mar 19 11:32	28°) €29'51	-2°07'10		5156 Mar 11 20:02	0° Y	
minimum elong	5155 Mar 19 13:51	28°) 39'45	2°07'06	evening rise	5156 Mar 12 02:50	0° Y ′29′10	
	5155 Mar 20 08:32	0° Υ		asc. node	5156 Mar 25 02:44	21° Y ′57'34	
evening rise	5155 Mar 30 21:26	18° Y 40'16		evening max el	5156 Mar 30 00:58	28° Y 06′27	18°10'42
1	5155 Apr 06 05:44	0° 8			5156 Apr 01 06:23	0°8	
asc. node	5155 Apr 16 12:08	3° 8 24'16	10007121	retrograde	5156 Apr 05 10:55	1° 8 29'33 0° 8 46'52	
evening max el retrograde	5155 Apr 16 12:08 5155 Apr 23 04:23	14° 8 51'16 18° 8 15'23	18°07'31	evening set	5156 Apr 08 07:56 5156 Apr 09 15:49	0° ⊘ 46′52 30° Ŗ Υ	
evening set	5155 Apr 25 19:10	17° 8 44'18		inferior conj	5156 Apr 14 11:10	25° Υ 31'31	3°25'29
inferior conj	5155 May 02 11:10	12° 8 48'40	2°57'34	minimum elong	5156 Apr 14 12:36	25° Υ 27'39	3°25'20
minimum elong	5155 May 02 14:07	12° 8 41'37		min. Earth dist.	5156 Apr 17 04:25	22° Y 36'18	0.62925 AU

ma a main a mida	5156 Apr 20 16:02	19° Ƴ 25'18		aca mada	5157 Mar. 11, 22:46	9° Ƴ 50'13	
morning rise	•	19° γ 25 18 16° γ 48' 58		asc. node	5157 Mar 11 23:46	11° Υ 31'59	10022122
direct	5156 Apr 27 12:31			evening max el	5157 Mar 13 13:02		18°32'32
desc. node	5156 Apr 30 11:06	17° Y 14'52		retrograde	5157 Mar 20 02:00	15° ℃ 07'10	
morning max el	5156 May 11 12:15		27°49'26	evening set	5157 Mar 23 05:16	14° Y 11'59	
	5156 May 16 05:28	0°B		inferior conj	5157 Mar 28 23:32		3°32'55
	5156 Jun 05 09:10	Π °0		minimum elong	5157 Mar 28 23:23	8° Y 39'13	3°32'55
morning set	5156 Jun 14 18:03	17° Ⅱ 40'50		min. Earth dist.	5157 Mar 31 01:32	6° Ƴ 09'58	0.64773 AU
max. Earth dist.	5156 Jun 20 02:26	28° Ⅱ 47'39	1.32592 AU	morning rise	5157 Apr 03 16:51	2° Y 26'12	
	5156 Jun 20 15:58	0			5157 Apr 07 21:57	30° Ŗ ₩	
asc. node	5156 Jun 21 02:00	0°ഇ53'51		direct	5157 Apr 10 10:07	29°) 37′22	
					5157 Apr 13 01:08	0 ° Υ	
superior conj	5156 Jun 22 10:02	3° 5 46'39	0°13'52	desc. node	5157 Apr 17 08:07	2° Y ′00'41	
minimum elong	5156 Jun 22 09:22	3° © 43'05	0°13'42	morning max el	5157 Apr 23 22:04	7° Ƴ 31'35	27°16'34
behind sun begin	5156 Jun 22 06:40	3° 5 28'29			5157 May 11 06:31	0°8	
behind sun end	5156 Jun 22 12:04	3° 9 57'42			5157 May 28 16:08	$\Pi^{\circ}0$	
evening rise	5156 Jun 29 08:53	18° © 50'01		morning set	5157 May 29 08:30	1° Ⅱ 19'22	
Č	5156 Jul 04 19:51	$0^{\circ}\Omega$		max. Earth dist.	5157 Jun 02 23:58	10° Ⅱ 36'45	1.33588 AU
evening max el	5156 Jul 23 02:18	27° Ω 04'25	23°39'25				
v , v 8 v .	5156 Jul 26 11:59	0° m)		superior conj	5157 Jun 06 13:52	18° ∏ 04'24	-0°14'17
desc. node	5156 Jul 27 10:19	0° Mp 40'03		minimum elong	5157 Jun 06 14:36	18° Ⅱ 08'20	
retrograde	5156 Aug 05 17:32	3° mp 55'10		behind sun begin	5157 Jun 06 12:00	17° ∏ 54'36	0 1110
evening set	5156 Aug 09 23:37	3° m 15'24		behind sun end	5157 Jun 06 17:12	18° Ⅲ 22'03	
min. Earth dist.	-	~	0.55022 AII			21° II 00'17	
min. Earth dist.	5156 Aug 16 12:12	0° mp 10'23	0.55933 AU	asc. node	5157 Jun 07 23:02		
	5156 Aug 16 19:14	30°RΩ	5007102		5157 Jun 12 04:10	0.20 0.20	
inferior conj	5156 Aug 18 15:44	28° Ω 53'14		evening rise	5157 Jun 13 19:56	3° © 30'28	
minimum elong	5156 Aug 18 11:18	28° Ω 59'54	5°06'35		5157 Jun 28 11:20	0 ° Ω	
morning rise	5156 Aug 27 01:27	24° Ω 58'33		evening max el	5157 Jul 04 17:22	7° Ω 27'28	22°02'41
direct	5156 Aug 29 21:19	24° Ω 38'38		desc. node	5157 Jul 14 07:20	13° Ω 23'43	
morning max el	5156 Sep 09 04:32	29° № 25'59	20°08'07	retrograde	5157 Jul 17 11:33	13° Ω 47'16	
	5156 Sep 09 18:43	0° m ∕		evening set	5157 Jul 20 07:10	13° Ω 29'34	
asc. node	5156 Sep 17 01:17	9° Mg 22′22		min. Earth dist.	5157 Jul 28 22:19	9° Ω 47'00	0.54941 AU
morning set	5156 Sep 27 11:12	28° m 41'36		inferior conj	5157 Jul 29 13:43	9° Ω 25′22	-4°07'32
	5156 Sep 28 02:34	0∘ ⊽		minimum elong	5157 Jul 29 04:58	9° Ω 37'39	4°05'22
				morning rise	5157 Aug 07 04:25	5° Ω 35′08	
superior conj	5156 Oct 05 03:31	14° ≏ 22'28	1°41'34	direct	5157 Aug 10 09:53	5° Ω 12′02	
minimum elong	5156 Oct 05 04:39	14° ≙ 28'07	1°41'32	morning max el	5157 Aug 22 07:53	10° Ω 46'31	21°34'53
max. Earth dist.	5156 Oct 10 15:53	25° ♀ 10'34	1.36757 AU	asc. node	5157 Sep 03 22:18	28° Ω 01′04	
	5156 Oct 13 05:40	0°M			5157 Sep 05 00:41	0° m)	
evening rise	5156 Oct 14 11:37	2° M 17'11		morning set	5157 Sep 11 20:15	13° m)28'17	
desc. node	5156 Oct 23 09:35	17° ™ 38'26		. 8			
		- ,					
		0° ∡ 7		superior coni	5157 Sep. 19. 02:31	28° m 44'59	1°43'16
evening max el	5156 Oct 31 08:44	0° √ ¹ 23° √ ²43'31	25°47'45	superior conj	5157 Sep 19 02:31	28° m 44'59 28° m 43'14	
evening max el	5156 Oct 31 08:44 5156 Nov 19 04:35	23° х 43'31	25°47'45	superior conj minimum elong	5157 Sep 19 02:11	28° m 43'14	1°43'16 1°43'16
	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48	23°Å43'31 0°♂	25°47'45	minimum elong	5157 Sep 19 02:11 5157 Sep 19 16:56	28° m/43′14 0° <u>Ω</u>	1°43'16
evening max el	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58	23°\$\frac{2}{4}3'31 0°පි 0°පි48'18	25°47'45	minimum elong max. Earth dist.	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32	28° M 43'14 0° Ω 7° Ω 02'31	
retrograde	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34	23°ダ43'31 0°る 0°る48'18 30°Rダ	25°47'45	minimum elong	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58	28° m/43'14 0° Ω 7° Ω02'31 15° Ω29'30	1°43'16
retrograde evening set	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31	23° ₹ 43'31 0° ₹ 0° ₹ 48'18 30° ₹ ₹ 28° ₹ 17'54		minimum elong max. Earth dist. evening rise	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36	28° m 43'14 0° Ω 7° Ω 02'31 15° Ω 29'30 0° M	1°43'16
retrograde evening set min. Earth dist.	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04	23° 🖈 43'31 0° でる 0° でる48'18 30° R 🖈 28° 🖈 17'54 23° 🖈 37'50	0.67005 AU	minimum elong max. Earth dist.	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54	1°43'16
retrograde evening set min. Earth dist. inferior conj	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37	23° 🛪 43'31 0° で 0° で 48'18 30° R 🖈 28° 🖈 17'54 23° 🖈 37'50 21° 🖈 54'59	0.67005 AU -0°14'24	minimum elong max. Earth dist. evening rise desc. node	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46	28° m 43'14 0° Ω 7° Ω02'31 15° Ω29'30 0° M 7° M 54'54 0° 7'	1°43'16 1.34975 AU
retrograde evening set min. Earth dist. inferior conj minimum elong	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59	23° * 43'31 0° でる 0° でる48'18 30° R * 7 28° * 717'54 23° * 737'50 21° * 754'59 21° * 753'48	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15	28° m 43'14 0° Ω 7° Ω02'31 15° Ω29'30 0° m 7° m 54'54 0° ⊀ 7° ⊀ 23'19	1°43'16
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59	23° * 43'31 0° でる 0° でる48'18 30° R * 7 28° * 717'54 23° * 737'50 21° * 753'48 21° * 753'48	0.67005 AU -0°14'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47	28° m 43'14 0° Ω 7° Ω 02'31 15° Ω 29'30 0° M 7° M 54'54 0° ズ 7° ズ 23'19 14° ズ 39'36	1°43'16 1.34975 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39	23° * 43'31 0° さん。 0° さんない。 30° R * 28° * 17'54 23° * 737'50 21° * 753'48 21° * 753'48 21° * 758'03	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x ¹ 7° x ² 23'19 14° x ³ 39'36 12° x ² 01'04	1°43'16 1.34975 AU 26°44'39
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20	23° ₹43'31 0° ₹5 0° ₹48'18 30° ₹₹ 28° ₹17'54 23° ₹37'50 21° ₹53'48 21° ₹53'48 21° ₹58'03 21° ₹49'34	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x ¹ 7° x ² 23'19 14° x ³ 39'36 12° x ⁹ 01'04 7° x ² 56'17	1°43'16 1.34975 AU 26°44'39 0.65939 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31	23° ₹43'31 0° ₹548'18 30° ₹ ₹17'54 23° ₹37'50 21° ₹54'59 21° ₹53'48 21° ₹58'03 21° ₹49'34 21° ₹01'52	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 05:48	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x' 7° x' 23'19 14° x'' 39'36 12° x'' 01'04 7° x'' 56'17 5° x'' 46'30	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55	23° ₹43'31 0° ₹548'18 30° ₹₹ 28° ₹17'54 23° ₹37'50 21° ₹53'48 21° ₹53'48 21° ₹58'03 21° ₹49'34	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x ¹ 7° x ² 23'19 14° x ³ 39'36 12° x ⁹ 01'04 7° x ² 56'17	1°43'16 1.34975 AU 26°44'39 0.65939 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31	23° ₹43'31 0° ₹548'18 30° ₹ ₹17'54 23° ₹37'50 21° ₹54'59 21° ₹53'48 21° ₹58'03 21° ₹49'34 21° ₹01'52	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 05:48	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x' 7° x' 23'19 14° x'' 39'36 12° x'' 01'04 7° x'' 56'17 5° x'' 46'30	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55	23° ₹43'31 0° ₹548'18 30° ₹₹ 28° ₹17'54 23° ₹37'50 21° ₹54'59 21° ₹53'48 21° ₹58'03 21° ₹49'34 21° ₹02'50 15° ₹02'08 18° ₹51'23	0.67005 AU -0°14'24 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 05:48 5157 Nov 27 07:53	28° m/43'14 0° Ω 7° Ω02'31 15° Ω29'30 0° M 7° M.54'54 0° ¾ 7° ¾23'19 14° ¾39'36 12° ¾01'04 7° ¾56'17 5° ¾46'30 5° ¾40'21 1° ¾50'34 0° ¾05'18	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59	23° ₹43'31 0° ₹548'18 30° ₹₹ 28° ₹17'54 23° ₹37'50 21° ₹54'59 21° ₹53'48 21° ₹58'03 21° ₹49'34 21° ₹01'52 16° ₹02'50 15° ₹02'08	0.67005 AU -0°14'24 0°14'13 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 05:48 5157 Nov 27 07:53 5157 Nov 30 21:32	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x ' 7° x '23'19 14° x '39'36 12° x '01'04 7° x '56'17 5° x '46'30 5° x '40'21 1° x '50'34	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47	23° ₹43'31 0° ₹548'18 30° ₹₹ 28° ₹17'54 23° ₹37'50 21° ₹54'59 21° ₹53'48 21° ₹58'03 21° ₹49'34 21° ₹02'50 15° ₹02'08 18° ₹51'23	0.67005 AU -0°14'24 0°14'13 0°14'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 27 05:48 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52	28° m/43'14 0° Ω 7° Ω02'31 15° Ω29'30 0° M 7° M.54'54 0° ¾ 7° ¾23'19 14° ¾39'36 12° ¾01'04 7° ¾56'17 5° ¾46'30 5° ¾40'21 1° ¾50'34 0° ¾05'18	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59	23° **43'31 0° **548'18 30° *R *** 28° ***17'54 23° ***37'50 21° ***53'48 21° ***53'48 21° ***58'03 21° ***49'34 21° ***01'52 16° ***02'50 15° ***02'08 18° ***51'23 0° **55'03	0.67005 AU -0°14'24 0°14'13 0°14'13	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 05:48 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x' 7° x' 23'19 14° x' 39'36 12° x' 01'04 7° x' 56'17 5° x' 46'30 5° x' 40'21 1° x' 50'34 0° x' 05'18 30° RML	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 11 23:04 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53	23° **43'31 0° **548'18 30° *₹*****28° ***17'54 23° ***37'50 21° ***53'48 21° ***53'48 21° ***58'03 21° **49'34 21° ***01'52 16° ***02'50 15° ***02'08 18° ***51'23 0° **51'23	0.67005 AU -0°14'24 0°14'13 0°14'13	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 06 04:26	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x' 7° x' 23'19 14° x' 39'36 12° x' 01'04 7° x' 56'17 5° x' 46'30 5° x' 40'21 1° x' 50'34 0° x' 05'18 30° RM 29° M 20'01	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28	23° **43'31 0° **548'18 30° *R *** 28° ***17'54 23° **37'50 21° **553'48 21° **553'48 21° **55'348 21° **49'34 21° **01'52 16° **02'50 15° **02'08 18° **51'23 0° *5 19° *501'10 21° *523'35 0° ※	0.67005 AU -0°14'24 0°14'13 0°14'13	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 27 05:48 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 06 04:26 5157 Dec 08 22:00	28° m 43'14 0° \(\text{0} \) 7° \(\text{0} \) 15° \(\text{2} \) 29'30 0° \(\text{m} \) 7° \(\text{M} \) 54'54 0° \(\text{N} \) 7° \(\text{N} \) 23'19 14° \(\text{N} \) 39'36 12° \(\text{N} \) 10' \(\text{N} \) 5° \(\text{N} \) 46'30 5° \(\text{N} \) 40'21 1° \(\text{N} \) 50'34 0° \(\text{N} \) 0° \(\text{N} \) 30° \(\text{R} \) 29° \(\text{L} \) 0° \(\text{N} \)	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28 5157 Jan 26 09:57	23° **43'31 0° **548'18 30° *R *** 28° ***17'54 23° **37'50 21° **553'48 21° **553'48 21° **55'348 21° **49'34 21° **01'52 16° **02'50 15° **02'08 18° **51'23 0° *5 19° *501'10 21° *523'35 0° ※	0.67005 AU -0°14'24 0°14'13 0°14'13	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 27 07:53 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 06 04:26 5157 Dec 08 22:00 5157 Dec 12 17:41	28° m 43'14 0° <u>a</u> 7° <u>a</u> 02'31 15° <u>a</u> 29'30 0° m 7° m 54'54 0° x ' 7° x '23'19 14° x '39'36 12° x '01'04 7° x '56'17 5° x '46'30 5° x '40'21 1° x '50'34 0° x '05'18 30° RM 29° m 20'01 0° x' 2° x '52'43	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28 5157 Jan 26 09:57	23° **43'31 0° **548'18 30° *R *** 28° ***17'54 23° **37'50 21° **553'48 21° **553'48 21° **55'348 21° **49'34 21° **01'52 16° **02'50 15° **02'08 18° **51'23 0° *5 19° *501'10 21° *523'35 0° ※	0.67005 AU -0°14'24 0°14'13 0°14'13 19°02'20	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 07:53 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 08 22:00 5157 Dec 12 17:41 5157 Dec 31 06:33	28° m43'14 0° \(\text{0} \) 7° \(\text{0} \) 15° \(\text{2} \) 29'30 0° \(\text{m} \) 7° \(\text{m} \) 54'54 0° \(\text{d} \) 7° \(\text{d} \) 23'19 14° \(\text{d} \) 39'36 12° \(\text{d} \) 01'04 7° \(\text{d} \) 56'17 5° \(\text{d} \) 46'30 5° \(\text{d} \) 40'21 1° \(\text{d} \) 50'34 0° \(\text{d} \) 05'18 30° \(\text{R} \) 29° \(\text{L} \) 20'01 0° \(\text{d} \) 2° \(\text{d} \) 52'43 0° \(\text{d} \)	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28 5157 Jan 26 09:57 5157 Feb 04 06:32	23° ズ43'31 0° で 0° で 48'18 30° R ズ 28° ズ 17'54 23° ズ 37'50 21° ズ 53'48 21° ズ 53'48 21° ズ 58'03 21° ズ 49'34 21° ズ 01'52 16° ズ 02'50 15° ズ 02'08 18° ズ 51'23 0° で 19° で 01'10 21° で 23'35 0° ≈ 13° ≈ 51'55	0.67005 AU -0°14'24 0°14'13 0°14'13 19°02'20 1.45045 AU -1°46'12	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 07:53 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 04:26 5157 Dec 12 17:41 5157 Dec 31 06:33 5158 Jan 01 04:36	28° m 43'14 0° Ω 7° Ω 02'31 15° Ω 29'30 0° m 7° M 54'54 0° ¾ 7° ¾ 23'19 14° ¾ 39'36 12° ¾ 01'04 7° ¾ 56'17 5° ¾ 46'30 5° ¾ 40'21 1° ¾ 50'34 0° ¾ 05'18 30° R M 29° M 20'01 0° ¾ 2° ¾ 52'43 0° ♂ 1° ♂ 28'444	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set max. Earth dist.	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28 5157 Jan 26 09:57 5157 Feb 04 06:32	23° ズ43'31 0° 古 0° 古48'18 30° R ズ 28° ズ17'54 23° ズ37'50 21° ズ53'48 21° ズ53'48 21° ズ53'48 21° ズ01'52 16° ズ02'50 15° ズ02'08 18° ズ51'23 0° 古 19° 古01'10 21° 古23'35 0° ≈ 13° ≈51'55	0.67005 AU -0°14'24 0°14'13 0°14'13 19°02'20 1.45045 AU -1°46'12	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 07:53 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 04:26 5157 Dec 12 17:41 5157 Dec 31 06:33 5158 Jan 01 04:36	28° m 43'14 0° Ω 7° Ω 02'31 15° Ω 29'30 0° m 7° M 54'54 0° ¾ 7° ¾ 23'19 14° ¾ 39'36 12° ¾ 01'04 7° ¾ 56'17 5° ¾ 46'30 5° ¾ 40'21 1° ¾ 50'34 0° ¾ 05'18 30° R M 29° M 20'01 0° ¾ 2° ¾ 52'43 0° ♂ 1° ♂ 28'444	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 09:20 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28 5157 Jan 26 09:57 5157 Feb 04 06:32	23° ズ43'31 0° 古 0° 古48'18 30° R ズ 28° ズ17'54 23° ズ37'50 21° ズ53'48 21° ズ53'48 21° ズ58'03 21° ズ49'34 21° ズ02'50 15° ズ02'08 18° ズ51'23 0° 古 19° 古01'10 21° 古23'35 0° ≈ 13° ≈51'55 17° ≈26'16 16° ≈51'32 0° 大	0.67005 AU -0°14'24 0°14'13 0°14'13 19°02'20 1.45045 AU -1°46'12	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 superior conj	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 27 05:48 5157 Nov 27 07:53 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 04:26 5157 Dec 05 22:00 5157 Dec 12 17:41 5157 Dec 31 06:33 5158 Jan 06 05:53	28° M 43'14 0° 요 7° 요02'31 15° 요29'30 0° M 7° M 54'54 0° ズ 7° ズ 23'19 14° ズ 39'36 12° ズ 01'04 7° ズ 56'17 5° ズ 46'30 5° ズ 46'30 5° ズ 40'21 1° ズ 50'34 0° ズ 05'18 30° R M 29° M 20'01 0° ズ 2° ズ 52'43 0° 云 1° 云 28'44 9° 云 35'11	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34 18°20'52
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	5156 Oct 31 08:44 5156 Nov 19 04:35 5156 Nov 27 19:48 5156 Dec 01 13:58 5156 Dec 05 01:34 5156 Dec 07 15:31 5156 Dec 13 07:37 5156 Dec 13 07:59 5156 Dec 13 07:59 5156 Dec 13 06:39 5156 Dec 13 09:20 5156 Dec 14 00:31 5156 Dec 19 00:55 5156 Dec 22 06:59 5156 Dec 22 06:59 5156 Dec 29 04:47 5157 Jan 06 21:59 5157 Jan 19 08:53 5157 Jan 20 21:28 5157 Jan 26 09:57 5157 Feb 04 06:32	23° ズ43'31 0° 古 0° 古48'18 30° R ズ 28° ズ17'54 23° ズ37'50 21° ズ53'48 21° ズ53'48 21° ズ53'48 21° ズ01'52 16° ズ02'50 15° ズ02'08 18° ズ51'23 0° 古 19° 古01'10 21° 古23'35 0° ≈ 13° ≈51'55	0.67005 AU -0°14'24 0°14'13 0°14'13 19°02'20 1.45045 AU -1°46'12	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	5157 Sep 19 02:11 5157 Sep 19 16:56 5157 Sep 23 03:32 5157 Sep 27 10:58 5157 Oct 05 11:36 5157 Oct 10 06:36 5157 Oct 25 22:46 5157 Nov 01 17:15 5157 Nov 14 18:47 5157 Nov 21 08:46 5157 Nov 25 09:42 5157 Nov 27 05:48 5157 Nov 27 07:53 5157 Nov 30 21:32 5157 Dec 03 07:52 5157 Dec 03 12:02 5157 Dec 04:26 5157 Dec 05 22:00 5157 Dec 12 17:41 5157 Dec 31 06:33 5158 Jan 01 04:36 5158 Jan 06 05:53	28° M 43'14 0° \(\Omega\) 7° \(\Omega\) 15° \(\Omega\) 29'30 0° M 7° M 54'54 0° \(\delta'\) 7° \(\delta'\) 14° \(\delta'\) 39'36 12° \(\delta'\) 10' \(\delta'\) 5° \(\delta'\) 46'30 5° \(\delta'\) 40'21 1° \(\delta'\) 50'34 0° \(\delta'\) 30° \(\delta'\) 29° M 20'01 0° \(\delta'\) 2° \(\delta'\) 1° \(\delta'\) 1° \(\delta'\) 28'44 9° \(\delta'\) 35'11	1°43'16 1.34975 AU 26°44'39 0.65939 AU -1°14'28 1°13'34

	5158 Jan 19 04:02	0° ≈		evening rise	5159 Jan 12 08:49	0°≈36'30	
evening rise	5158 Feb 01 18:07	21°≈16'52		greatest brilliancy	5159 Jan 27 00:33	22°≈46'10	-0.6m
evening rise	5158 Feb 07 07:24	0° ∀		greatest offinancy	5159 Feb 01 02:17	0° ∀	0.0111
greatest brilliancy	5158 Feb 12 11:30	8° ₩ 02'53	-0.8m	evening max el	5159 Feb 08 02:30	8°) (36'42	20°06'46
evening max el	5158 Feb 24 22:05	25°) 02'54	19°11'51	asc. node	5159 Feb 13 17:49	12° ¥ 43'47	20 00 10
asc. node	5158 Feb 26 20:47	26°) 50'12	1, 1101	retrograde	5159 Feb 15 19:54	13° ₩ 07'00	
retrograde	5158 Mar 03 21:54	29° H 01'09		evening set	5159 Feb 19 14:27	11°) (44'10	
evening set	5158 Mar 07 08:11	27°) 52'37		inferior conj	5159 Feb 24 23:42	5°) (41'04	3°04'32
inferior conj	5158 Mar 12 20:41	22° H 03'24	3°24'47	minimum elong	5159 Feb 24 21:34	5°) (48'18	3°04'07
minimum elong	5158 Mar 12 19:17	22°) 07'52	3°24'38	min. Earth dist.	5159 Feb 25 20:07	4°) (32′13	0.67280 AU
min. Earth dist.	5158 Mar 14 07:21	20°) 12'09	0.66238 AU		5159 Mar 01 14:26	30°R≈	
morning rise	5158 Mar 18 06:02	15°) (48'41		morning rise	5159 Mar 02 04:27	29°≈26'36	
direct	5158 Mar 24 14:23	13° ¥ 00'37		direct	5159 Mar 08 00:15	26°≈50'21	
desc. node	5158 Apr 04 05:08	18°) 32′56			5159 Mar 15 10:19	0° ∀	
morning max el	5158 Apr 06 07:57	20°) 35'11	26°15'21	morning max el	5159 Mar 19 16:45	3°) 49'46	24°55'20
	5158 Apr 14 10:34	0°Υ		desc. node	5159 Mar 22 02:10	6° ¥ 22′28	
	5158 May 04 09:58	0°8		dese. Hode	5159 Apr 08 17:21	0°Υ	
morning set	5158 May 12 10:28	14° 8 17'43		morning set	5159 Apr 24 19:06	26° Y 22'33	
max. Earth dist.	5158 May 16 10:08	21° 8 54'21	1.35056 AU	morning sec	5159 Apr 26 19:30	0°8	
man zam ust.	5158 May 20 11:43	0°II	1.50000110	max. Earth dist.	5159 Apr 28 09:59		1.36952 AU
	2120 May 20 11.13	~ ~		man. Barar alov.	0103 11p1 20 03.03	2 00000	1.50702110
superior conj	5158 May 21 10:42	1° Ⅱ 56'58	-0°43'58	superior conj	5159 May 04 21:35	15° 8 16'38	-1°13'30
minimum elong	5158 May 21 13:07	2° Ⅱ 09'19		minimum elong	5159 May 05 01:38	15° 8 36'29	
asc. node	5158 May 25 20:03	11° I I01'32			5159 May 12 06:25	0°II	
evening rise	5158 May 29 04:12	17° ∏ 57'44		asc. node	5159 May 12 17:05	0° ∏ 53'41	
	5158 Jun 04 05:51	0ಂತಿ		evening rise	5159 May 13 07:24	2° ∏ 05'35	
evening max el	5158 Jun 16 18:28	18° © 17'07	20°36'51	evening max el	5159 May 30 08:07		19°29'02
retrograde	5158 Jun 28 00:01	23°947'24	20 3031	evening max er	5159 May 30 13:03	0°95	17 27 02
evening set	5158 Jun 30 00:50	23° © 37'19		retrograde	5159 Jun 08 19:52	4° © 26'10	
desc. node	5158 Jul 01 04:22	23°S23'10		evening set	5159 Jun 10 18:28	4°9515'23	
inferior conj	5158 Jul 09 07:02	19° 9 40'17	2023122	desc. node	5159 Jun 18 01:23	1°901'50	
minimum elong	5158 Jul 09 07:02 5158 Jul 09 00:25	19°549'48	2°21'03	inferior conj	5159 Jun 19 10:15	0°909'45	002421
min. Earth dist.	5158 Jul 10 09:42	19 94948 19°901'57	0.54876 AU	minimum elong	5159 Jun 19 10:13	0°90943	
			0.34870 AU	minimum elong		0 €311 29 30°R∏	0 2407
morning rise	5158 Jul 17 23:20	15°934'30		min Earth dist	5159 Jun 19 16:19	28° I I32'23	0.55767 AII
direct	5158 Jul 21 19:24	15°502'48	22015150	min. Earth dist.	5159 Jun 21 23:11		0.55767 AU
morning max el	5158 Aug 04 01:26	21° © 26'35	23°15'50	morning rise	5159 Jun 27 21:13	25° II 32'27	
	5158 Aug 11 10:34	0°N		direct	5159 Jul 02 13:49	24° ∏ 42'52	
asc. node	5158 Aug 21 19:19	17° Ω 10'55			5159 Jul 14 15:01	0.20	
morning set	5158 Aug 27 07:28	28° Ω 20'04		morning max el	5159 Jul 16 14:53	1°9547'10	24°58'51
	5158 Aug 28 02:20	0° m			5159 Aug 05 05:49	0°Ω	
				asc. node	5159 Aug 08 16:21	6° Ω 44'01	
superior conj	5158 Sep 03 08:00			morning set	5159 Aug 11 19:11	13° Ω 12'14	
minimum elong	5158 Sep 03 06:33	13° m 17'30	1°38'16				
max. Earth dist.	5158 Sep 06 00:01	19° ™ 05'56	1.33581 AU	superior conj	5159 Aug 18 17:30	28° Ω 15'49	1°27'48
evening rise	5158 Sep 10 23:34	29° m 18'44		minimum elong	5159 Aug 18 15:23	28° Ω 04'16	1°27'33
	5158 Sep 11 07:53	0∘ ⊽			5159 Aug 19 12:34	0°Щ	
desc. node	5158 Sep 27 03:38	27° Ω 49'12		max. Earth dist.	5159 Aug 20 04:40		1.32611 AU
	5158 Sep 28 14:02	0°M		evening rise	5159 Aug 25 21:48	13° m 34'45	
evening max el	5158 Oct 15 05:40		27°19'35		5159 Sep 03 10:34	0∘ ⊽	
retrograde	5158 Oct 28 17:36	28°M07'57		desc. node	5159 Sep 14 00:40	17° ≏ 12'03	
evening set	5158 Nov 04 17:16	25°M28'42			5159 Sep 23 22:43	0° M	
min. Earth dist.	5158 Nov 08 12:28	21°M58'12	0.64523 AU	evening max el	5159 Sep 27 15:52	3°M49'26	27°25'55
inferior conj	5158 Nov 10 20:26	19°M27'50	-2°17'30	retrograde	5159 Oct 11 09:39	11°M04'22	
minimum elong	5158 Nov 11 00:26	19° M ₁7'05	2°15'56	evening set	5159 Oct 18 13:52	8°M34'13	
morning rise	5158 Nov 17 08:52	14°M00'35		min. Earth dist.	5159 Oct 22 05:18	5° ™ 34'02	0.62791 AU
asc. node	5158 Nov 17 18:34	13°M50'51		inferior conj	5159 Oct 25 00:44	2°M51'58	-3°20'34
direct	5158 Nov 19 22:19	13°M26'46		minimum elong	5159 Oct 25 06:25	2°M38'16	3°18'42
morning max el	5158 Nov 26 09:57	16°M52'16	17°56'25		5159 Oct 28 04:50	30° ₹ Ω	
	5158 Dec 05 21:44	0° ∡ ″		morning rise	5159 Nov 01 00:36	27° ≏ 42'09	
morning set	5158 Dec 13 17:00	13° ∡ 00′44		direct	5159 Nov 03 09:38	27° ≏ 16′08	
	5158 Dec 23 22:41	0°ರ		asc. node	5159 Nov 04 15:36	27° ≏ 23'31	
desc. node	5158 Dec 24 02:55	0°₹17'16			5159 Nov 09 08:24	0°M	
				morning max el	5159 Nov 10 02:34	0°M42'42	17°49'38
superior conj	5158 Dec 27 05:08	5° る 17'15	-0°21'27	morning set	5159 Nov 26 05:01	25°M40'33	
minimum elong	5158 Dec 27 02:35	5° ප 06'57	0°21'05	-	5159 Nov 28 15:48	0° ∡ ¹	
max. Earth dist.	5158 Dec 31 20:18	12° る 40'04	1.44873 AU				
	5159 Jan 11 23:20	0° ≈		superior conj	5159 Dec 07 18:28	15° ∡ ′41'30	0°22'41
				1			

minimum alana	5150 Dag 07 20:20	15° ∡ 750′39	0°22'23	desc. node	5160 Nov 26 20:59	11° √ 50'25	
minimum elong desc. node	5159 Dec 07 20:39 5159 Dec 10 23:57	13 x · 30 39 21° x 03′20	0 22 23	evening rise	5160 Nov 26 20.39 5160 Dec 01 17:32	11 x · 30 23	
max. Earth dist.	5159 Dec 10 23.37 5159 Dec 14 13:10	26° x 50'21	1.43732 AU	evening rise	5160 Dec 01 17.32 5160 Dec 08 07:22	0。名	
max. Earm dist.	5159 Dec 14 13:10 5159 Dec 16 12:28	20 x・3021	1.43/32 AU		5160 Dec 08 07.22 5160 Dec 29 15:48	0°≈	
evening rise	5159 Dec 22 19:26	9° る 52'54		evening max el	5160 Dec 29 13:48 5161 Jan 03 19:12	0 ∞ 5°≈47'39	22°31'06
evening rise	5160 Jan 05 04:19	9° ≈		retrograde	5161 Jan 13 14:05	11°≈36'43	22 31 00
evening max el	5160 Jan 22 01:25	0 ∞ 22°≈11'18	21014122	asc. node	5161 Jan 17 11:54	11 ≈3043 10°≈16'53	
retrograde	5160 Jan 30 17:50	22 ≈11 18 27°≈19'57	21 1433	evening set	5161 Jan 18 05:40	9°≈43'03	
asc. node	5160 Jan 31 14:52	27°≈15'50		inferior conj	5161 Jan 23 14:16	3°≈20'43	1°56'00
evening set	5160 Feb 03 22:09	25°≈41'56		minimum elong	5161 Jan 23 12:03	3°≈28'23	1°55'15
inferior conj	5160 Feb 09 06:14	19°≈27'34	2°34'26	min. Earth dist.	5161 Jan 23 10:06	3°≈35'12	
minimum elong	5160 Feb 09 00:14 5160 Feb 09 03:50	19 ≈27 34 19°≈35'55	2°33'46	IIIII. Eartii tist.	5161 Jan 26 02:20	30°Rる	0.06119 AU
min. Earth dist.	5160 Feb 09 03:30 5160 Feb 09 13:46	19 ≈33 33 19°≈01'31	0.67899 AU	morning rise	5161 Jan 28 18:20	30 KO 27° ろ 11'16	
morning rise	5160 Feb 14 09:20	13°≈14'55	0.07899 AU	direct	5161 Feb 02 09:05	25° る 16'31	
direct	5160 Feb 14 09:20 5160 Feb 19 14:44	13 ≈14 33 10°≈57'45		direct	5161 Feb 02 09:03 5161 Feb 10 21:40	0°≈	
morning max el	5160 Mar 01 01:38	10 ≈3743 17°≈10'38	23°26'42	morning max el	5161 Feb 10 21:40 5161 Feb 11 13:51	0 ∞ 0°≈39'46	21058!50
desc. node	5160 Mar 07 23:12	17 ≈10 38 25°≈06'49	23 20 42	desc. node	5161 Feb 11 13:31 5161 Feb 22 20:15	0 ≈3940 14°≈30'52	21 36 39
desc. node	5160 Mar 11 16:58	0° \		desc. node	5161 Mar 05 13:15	0°)	
	5160 Mar 31 18:51	0 Υ 0° Υ		marning sat	5161 Mar 16 09:47	16°) 52'43	
morning set	5160 Mar 31 18.31 5160 Apr 05 04:29	0 γ 7° Υ 17'39		morning set max. Earth dist.	5161 Mar 22 03:52	16 ★3243 26°¥18'37	1.41280 AU
max. Earth dist.		14° Υ 14'37	1.39113 AU	max. Earm dist.	5161 Mar 24 08:25	20 Υ 1837	1.41260 AU
max. Earm dist.	5160 Apr 09 05:33	14 143/	1.39113 AU		3101 Mai 24 06.23	0 1	
superior conj	5160 Apr 16 18:38	27° Y 52'56	-1°40'16	superior conj	5161 Mar 29 21:11	9° Ƴ 35'07	-2°00'27
minimum elong	5160 Apr 16 23:38	28° Υ 16'18		minimum elong	5161 Mar 30 01:21	9° Υ 53'31	
minimum ciong	5160 Apr 17 21:46	0° 8	1 3941	evening rise	5161 Apr 09 10:42	28° Υ 50'07	2 00 13
evening rise	5160 Apr 26 02:43	15° 8 45'46		evening rise	5161 Apr 10 01:46	0° 8	
asc. node	5160 Apr 28 14:08	20° 8 31'31		asc. node	5161 Apr 15 11:10	9° 8 49'54	
asc. Houe	5160 May 03 18:15	0°II		evening max el	5161 Apr 25 16:29	24° 8 41'33	18°14'14
evening max el	5160 May 12 08:32	11° I I58'36	18°41'31	retrograde	5161 May 02 17:25	28° 8 13'22	10 14 14
retrograde	5160 May 20 09:13	11 Ⅲ 58 30	16 41 31	evening set	5161 May 05 04:11	27° 8 48'30	
evening set	5160 May 22 13:08	15° I I39'34		inferior conj	5161 May 12 05:22	_	2°29'49
inferior conj	5160 May 30 09:03	13 H 3934	1°17'48	minimum elong	5161 May 12 03:22 5161 May 12 08:49	23° 6 57'03	2°28'56
minimum elong	5160 May 30 09:03 5160 May 30 11:45	11° I I10'01	1°16'53	min. Earth dist.	5161 May 15 15:02	20° 8 07'02	0.59513 AU
min. Earth dist.	5160 Jun 02 16:13	8° Ⅱ 48'45	0.57416 AU	morning rise	5161 May 19 10:40	17° 8 22'36	0.39313 AU
desc. node	5160 Jun 03 22:25	7° П 56'45	0.37410 AU	desc. node	5161 May 19 10:40 5161 May 21 19:28	16° 8 14'39	
morning rise	5160 Jun 07 07:04	6° I 102'44		direct	5161 May 25 19:40	15° 8 30'00	
direct	5160 Jun 12 21:56	4° ∏ 44'43		morning max el	5161 Jun 09 04:43	23° 8 21'03	27020121
	5160 Jun 27 06:47	12° I 17'38	26°27'58	morning max er	5161 Jun 15 03:35	23 Ο 21 03	21 20 34
morning max el	5160 Jul 27 06.47 5160 Jul 11 02:39	12 п 1/38	20 27 38		5161 Jul	0°€	
asc. node	5160 Jul 25 13:25	0 55 26°533'42		morning sat	5161 Jul 10 13:36	12° © 37'08	
	5160 Jul 26 05:49	20 \$33 42 27°\$59'59		morning set asc. node	5161 Jul 12 10:26	12 93708 16°933'50	
morning set	5160 Jul 27 04:24	27 £ 03939			5161 Jul 17 01:53	26°\$40'17	1 21025 AII
	3100 Jul 27 04.24	0 06		max. Earth dist.	3101 Jul 1/ 01.33	20 304017	1.31925 AU
superior conj	5160 Aug 02 05:01	13° Ω 10'19	1°12'19	superior conj	5161 Jul 17 16:43	28° © 02'10	0°52'31
minimum elong	5160 Aug 02 02:43	13° € 1019	1°11'58	minimum elong	5161 Jul 17 14:41	27°\$50'58	0°52'07
max. Earth dist.	5160 Aug 02 02:43 5160 Aug 02 14:34	$12^{\circ} \Omega 3734$ $14^{\circ} \Omega 03'02$	1.32058 AU	minimum ciong	5161 Jul 18 14:03	27 3 30 38	0 32 07
evening rise	5160 Aug 09 02:44	28° Ω 09'00	1.32038 AU	evening rise	5161 Jul 24 11:55	12° Ω 53'13	
evening rise	5160 Aug 10 00:00	0°Mp		evening rise	5161 Aug 02 02:47	0° Mp	
	5160 Aug 26 18:21	0° ت		desc. node	5161 Aug 17 18:43	23°M)27'09	
desc. node	5160 Aug 30 21:41	o = 5° £ 50'54		evening max el	5161 Aug 21 18:57	27° Mp 40'36	26000'00
evening max el	5160 Sep 08 21:06	16° £ 09'36	26°59'25	evening max er	5161 Aug 24 10:29	0° ⊡	20 00 09
retrograde	5160 Sep 08 21:00 5160 Sep 22 18:15	23° £ 20′29	20 39 23	retrograde	5161 Sep 04 18:06	0 == 4° £ 48'02	
evening set	5160 Sep 29 18:34	23 = 2029 21° ⊆ 11'13		evening set	5161 Sep 11 02:23	3° Ω 11'22	
min. Earth dist.	5160 Oct 03 11:19	18° £ 31'40	0.60811 AU	min. Earth dist.	*	0° Ω 36'04	0.58736 AU
inferior conj	5160 Oct 03 11:19 5160 Oct 06 15:26	18° 2 31′40 15° 2 50′49		min. Earth dist.	5161 Sep 15 07:34		0.58/30 AU
,	5160 Oct 06 13.26 5160 Oct 06 21:44	15° £ 3049	4°16'55	inforior coni	5161 Sep 16 03:38	30°RM) 200 m 12152	5902!11
minimum elong		13 ≗ 37 28 11° £ 01'59	4 10 33	inferior conj	5161 Sep 18 12:55	28° Mp 13'52 28° Mp 05'31	
morning rise	5160 Oct 14 02:52			minimum elong	5161 Sep 18 17:26	-•	3 01 30
direct	5160 Oct 16 10:31	10° £ 40'44		morning rise	5161 Sep 26 10:46	23° Mp 48'03	
asc. node	5160 Oct 21 12:39	12° £ 28'03	10001125	direct	5161 Sep 28 20:24	23° Mp 29'00	10022120
morning max el	5160 Oct 23 16:26	14° Ω 16'45	18°01'35	morning max el	5161 Oct 07 00:04	27° Mp 24'10	18°33'38
	5160 Nov 03 10:08	0°M		asc. node	5161 Oct 08 09:43	28° Mp 51'08	
morning set	5160 Nov 08 10:14	9° M 09'19			5161 Oct 09 09:27	0° ⊽	
	51 CO 37 10 10 0	270W 2202	0057152	morning set	5161 Oct 23 03:28	23° Ω 11'24	
superior conj	5160 Nov 18 10:04	27°M22'33	0°57'52		5161 Oct 26 15:53	0°M₊	
minimum elong	5160 Nov 18 13:58	27°M39'50	0°57'21		#161.0 : 01.00 or	100 W 0 0 0	1000100
	5160 Nov 19 21:53	0° ∡ 7		superior conj	5161 Oct 31 23:31	10°M06'48	1°22'28
max. Earth dist.	5160 Nov 26 01:19	10° ≯ 28'50	1.42044 AU	minimum elong	5161 Nov 01 02:58	10°M22'53	1°22'07

5162 Oct 18 12:24

0°M

superior conj	5163 Sep 28 23:20	7° ≏ 46'12	1°43'09	morning set	5164 Sep 04 22:06	7° m 07'00	
minimum elong	5163 Sep 28 23:49	7° ≏ 48'37	1°43'09	C		•	
max. Earth dist.	5163 Oct 03 20:34	17° ≏ 32'21	1.35963 AU	superior conj	5164 Sep 12 01:25	22° Mp 17'06	1°41'55
evening rise	5163 Oct 07 20:31	25° ₽ 09'00		minimum elong	5164 Sep 12 00:34	22° m 12'35	1°41'54
-	5163 Oct 10 12:15	0°M		max. Earth dist.	5164 Sep 15 12:08	29° m 28'41	1.34333 AU
desc. node	5163 Oct 18 12:00	13° M 37'07			5164 Sep 15 18:15	0∘ ত	
	5163 Oct 29 09:39	0° ∡ ¹		evening rise	5164 Sep 20 01:57	8° 亞 38′00	
evening max el	5163 Nov 12 10:54	16° ₹ 53'33	26°14'17		5164 Oct 02 00:51	0° M	
retrograde	5163 Nov 25 03:44	24° ∡ ¹03'45		desc. node	5164 Oct 04 09:01	3°M45'14	
evening set	5163 Dec 01 10:46	21° ∡ ¹29′27			5164 Oct 24 11:40	0°⊀	
min. Earth dist.	5163 Dec 05 15:34	17° ∡ ¹04'16	0.66594 AU	evening max el	5164 Oct 24 23:37	0° ∡ ¹28'56	27°02'35
inferior conj	5163 Dec 07 04:52	15° ₹ 09'41	-0°39'22	retrograde	5164 Nov 07 05:52	7° ∡ ¹46′28	
minimum elong	5163 Dec 07 05:56	15° ∡ ¹06′25	0°38'53	evening set	5164 Nov 14 00:37	5° ≯ 06′28	
asc. node	5163 Dec 09 03:01	12° ₹ '51'56		min. Earth dist.	5164 Nov 17 22:58	1° ≯ 16'46	0.65381 AU
morning rise	5163 Dec 13 01:39	9° ∡ 21'40			5164 Nov 19 02:11	30°RM₊	
direct	5163 Dec 16 03:30	8° ∡ ¹27'49		inferior conj	5164 Nov 20 00:08	28°M57'24	-1°40'57
morning max el	5163 Dec 22 20:38	12° ₰ 08'34	18°42'41	minimum elong	5164 Nov 20 03:02	28°M49'10	1°39'45
	5164 Jan 04 21:01	0°ප		asc. node	5164 Nov 25 00:03	24°M06'41	
morning set	5164 Jan 13 01:14	12° る 49'55		morning rise	5164 Nov 26 06:27	23°M21'54	
desc. node	5164 Jan 14 11:16	15° る 04'00		direct	5164 Nov 28 23:48	22°M41'53	
	5164 Jan 23 23:26	0° ≈		morning max el	5164 Dec 05 11:22	26°M10'04	18°08'26
max. Earth dist.	5164 Jan 28 15:04	7° ≈ 17'38	1.45260 AU		5164 Dec 08 18:37	0° ∡ ¹	
				morning set	5164 Dec 23 21:12	23° ҂ 33'33	
superior conj	5164 Jan 29 08:28	8° ≈ 25'56	-1°31'49		5164 Dec 27 19:49	0°ಕ	
minimum elong	5164 Jan 28 23:03	7° ≈ 48'56	1°30'52	desc. node	5164 Dec 31 08:17	5° る 41'50	
	5164 Feb 11 23:31	0° ∀					
evening rise	5164 Feb 13 20:34	3° ∺ 00′23		superior conj	5165 Jan 07 13:19	17° る 11'46	
greatest brilliancy	5164 Feb 21 07:40	14° ¥ 58'31	-0.9m	minimum elong	5165 Jan 07 07:19	16° る 48'02	
	5164 Mar 02 07:14	$0^{\circ}\Upsilon$		max. Earth dist.	5165 Jan 10 10:43	21° る 45'08	1.45225 AU
evening max el	5164 Mar 06 04:30	4° Y 37'02	18°47'12		5165 Jan 15 17:12	0° ≈	
asc. node	5164 Mar 06 02:17	4° Υ 31'25		evening rise	5165 Jan 23 20:06	12°≈37'51	
retrograde	5164 Mar 12 20:58	8° Y 20′27			5165 Feb 04 02:35	0° ∀	
evening set	5164 Mar 16 03:13	7° Y 19′29		greatest brilliancy	5165 Feb 05 12:10	2°) €06'46	-0.7m
inferior conj	5164 Mar 21 18:40	1° Y 39′07	3°31'08	evening max el	5165 Feb 17 11:39	18°) €08'48	19°33'23
minimum elong	5164 Mar 21 17:56	1° Υ 41'23	3°31'05	asc. node	5165 Feb 20 23:20	21°) (04'44	
	5164 Mar 23 02:43	30° ₹	0 65451 477	retrograde	5165 Feb 24 18:10	22°) 19'53	
min. Earth dist.	5164 Mar 23 13:58	29° H 25'41	0.65451 AU	evening set	5165 Feb 28 07:50	21°) (05'14	
morning rise	5164 Mar 27 08:12	25°) (25'32		inferior conj	5165 Mar 05 18:38	15°) €09'31	3°17'32
direct	5164 Apr 02 22:17	22°) (35'44		minimum elong	5165 Mar 05 16:52	15° ¥ 15′21	3°17'16
desc. node	5164 Apr 11 10:33	26° 米 11'19 0° Ƴ		min. Earth dist.	5165 Mar 06 22:59	13° ∺ 36′17 8° ∺ 54′38	0.66731 AU
	5164 Apr 15 18:02	• •	26052120	morning rise	5165 Mar 11 01:39		
morning max el	5164 Apr 16 03:00	0°Υ22'28	26°53'30	direct	5165 Mar 17 04:50	6° 升 10'47	
	5164 May 08 02:53	0° 8		desc. node	5165 Mar 29 07:34	13° ¥ 19'17	25942107
morning set	5164 May 21 22:07 5164 May 24 20:48	24° ႘ 15'50 0° Ⅱ		morning max el	5165 Mar 29 12:41 5165 Apr 11 21:00	13°) 32′10 0° °	25*45*07
max. Earth dist.	5164 May 26 06:30	0 H 2°H48'09	1.34164 AU		5165 Apr 30 21:08	0°8	
max. Earth dist.	3104 May 20 00.30	2 1146 09	1.34104 AU	morning set	5165 May 04 17:25	6° 8 53'17	
superior conj	5164 May 30 10:47	11° II 22'13	-0°26'46	max. Earth dist.	5165 May 08 12:16	13° 8 57'34	1.35815 AU
minimum elong	5164 May 30 12:12	11° II 22'13		max. Larm dist.	3103 Way 00 12.10	13 037 54	1.55015710
asc. node	5164 Jun 02 01:31	16° Ⅱ 51'43	0 202)	superior conj	5165 May 14 03:47	25° 8 01'40	-0°56'39
evening rise	5164 Jun 06 21:09	27° I I01'21		minimum elong	5165 May 14 06:56	25° 8 17'27	
evening rise	5164 Jun 08 07:36	0°9		minimum crong	5165 May 16 14:41	0° I	0 2001
evening max el	5164 Jun 26 17:12	29° © 19'13	21°24'09	asc. node	5165 May 19 22:35	6° Ⅱ 49'46	
	5164 Jun 27 10:20	0°Ω		evening rise	5165 May 22 03:36	11° Ⅲ 21′28	
desc. node	5164 Jul 08 09:47	5° Ω 18'45		evening rise	5165 Jun 01 01:29	0ಂತಿ	
retrograde	5164 Jul 08 20:53	5° Ω 19'15		evening max el	5165 Jun 08 23:33	10° © 25'35	20°05'35
evening set	5164 Jul 11 06:27	5° Ω 06'02		retrograde	5165 Jun 19 11:25	15°533'46	20 00 30
inferior conj	5164 Jul 20 14:54	1° Ω 06'39	-3°27'25	evening set	5165 Jun 21 09:37	15° © 24'08	
minimum elong	5164 Jul 20 06:17	1° Ω 18'42		desc. node	5165 Jun 25 06:49	14°9512'15	
min. Earth dist.	5164 Jul 20 17:22		0.54801 AU	inferior conj	5165 Jun 30 10:53	11°524'46	-1°32'40
Junia dist.	5164 Jul 22 15:03	30°Rூ	501.110	minimum elong	5165 Jun 30 06:34	11°931'14	
morning rise	5164 Jul 29 06:58	27°9512'42		min. Earth dist.	5165 Jul 02 05:33	10°521'03	0.55139 AU
direct	5164 Aug 01 18:05	26°5946'47		morning rise	5165 Jul 09 01:55	7°906'56	
~	5164 Aug 10 23:07	0°Ω		direct	5165 Jul 13 05:46	6°929'16	
morning max el	5164 Aug 14 06:42	2° Ω 41'50	22°16'43	morning max el	5165 Jul 26 21:58	13°9511'43	24°00'22
asc. node	5164 Aug 29 00:47	23° Ω 26'14			5165 Aug 08 20:14	0° Ω	
v 	5164 Sep 01 10:46	0° m)		asc. node	5165 Aug 15 21:49	12° Ω 47'22	
	т	4					

morning set	5165 Aug 20 09:46	22° Ω 00′22			5166 Aug 01 13:46	$0^{\circ}\Omega$	
	5165 Aug 24 03:00	O° m y		asc. node	5166 Aug 02 18:52	2° Ω 28'14	
				morning set	5166 Aug 04 21:13	6° Ω 51'18	
superior conj	5165 Aug 27 08:56	7° Mg 03′29	1°34'32			_	
minimum elong	5165 Aug 27 07:09	6° Mp 53'50	1°34'23	superior conj	5166 Aug 11 19:32	21° Ω 56'46	1°21'49
max. Earth dist.	5165 Aug 29 12:22	11° m/40'25	1.33113 AU	minimum elong	5166 Aug 11 17:17	21° Ω 44'23	1°21'31
evening rise	5165 Sep 03 19:05	22° m/40'15		max. Earth dist.	5166 Aug 12 19:26	24° Ω 07'58	1.32321 AU
	5165 Sep 07 12:36	0∘ ⊽			5166 Aug 15 12:09	0° m/y	
desc. node	5165 Sep 21 06:05	23° £ 28′01		evening rise	5166 Aug 18 20:29	7° Mp 05'06	
	5165 Sep 25 18:44 5165 Oct 07 11:11	0°M	27925157		5166 Aug 31 00:22	0° Ω	
evening max el retrograde	5165 Oct 07 11:11 5165 Oct 21 02:01	13°M45'13	27°25'57	desc. node	5166 Sep 08 03:07	12° △ 34'07 26° △ 29'19	27919145
C	5165 Oct 28 04:32	21°M03'03 18°M25'55		evening max el	5166 Sep 19 19:29	26 = 2919 0° M	27 1843
evening set min. Earth dist.	5165 Oct 31 21:35	15°ML09'23	0.63826 AU	ratra ara da	5166 Sep 24 00:16 5166 Oct 03 15:20	3°M43'14	
inferior conj	5165 Nov 03 10:45	13 IIL09 23 12°M32'24		retrograde evening set	5166 Oct 10 18:57	1°M20'28	
minimum elong	5165 Nov 03 15:32	12°M20'07		evening set	5166 Oct 12 15:19	30°R <u>Ω</u>	
morning rise	5165 Nov 10 04:00	7°M12'27	2 72 73	min. Earth dist.	5166 Oct 14 10:01	28° £ 30'26	0.61971 AU
asc. node	5165 Nov 11 21:04	6°M45'19		inferior conj	5166 Oct 17 09:40	25° Ω 46'50	
direct	5165 Nov 12 15:11	6°M42'28		minimum elong	5166 Oct 17 05:49	25° ⊆ 32'47	
morning max el	5165 Nov 19 04:14	10°ML07'21	17°51'20	morning rise	5166 Oct 24 14:32	20° £ 45'37	3 44 23
morning max or	5165 Dec 02 14:01	0°×7	1, 3120	direct	5166 Oct 26 22:26	20° £ 22'06	
morning set	5165 Dec 05 20:25	5° х ⁷ 36'38		asc. node	5166 Oct 29 18:06	20° £ 57'46	
morning see	0100 200 00 20.20	2 7. 3030		morning max el	5166 Nov 02 20:06	23° £ 51'57	17°52'17
superior conj	5165 Dec 18 11:57	26° ₹ 53'12	-0°01'57		5166 Nov 07 18:05	0°M	-,,
minimum elong	5165 Dec 18 11:44	26° ₹ 52'20		morning set	5166 Nov 18 16:28	18° ™ 39'15	
behind sun begin	5165 Dec 18 01:58	26° ₹ 12'22		Č	5166 Nov 25 00:30	0° √	
behind sun end	5165 Dec 18 21:31	27° ҂ ³32'13					
desc. node	5165 Dec 18 05:19	26° ≯ ¹26'03		superior conj	5166 Nov 29 12:42	7° ∡ ¹50'57	0°38'52
	5165 Dec 20 09:54	0°ರ		minimum elong	5166 Nov 29 15:58	8° ∡ 104'57	0°38'25
max. Earth dist.	5165 Dec 24 04:55	6° ප 05'05	1.44464 AU	desc. node	5166 Dec 05 02:22	17° ∡ 13'14	
evening rise	5166 Jan 03 07:03	21° る 50'49		max. Earth dist.	5166 Dec 06 19:23	20° ₹ 01'29	1.43070 AU
	5166 Jan 08 15:16	0° ≈			5166 Dec 13 00:57	8°0	
	5166 Jan 29 23:42	0° ∀		evening rise	5166 Dec 13 20:50	1° る 17'56	
evening max el	5166 Jan 31 13:39	1°) 42′14	20°34'13		5167 Jan 02 04:42	0° ≈	
asc. node	5166 Feb 07 20:22	6° ℋ 25'06		evening max el	5167 Jan 14 10:17	15° ≈ 17'50	21°46'24
retrograde	5166 Feb 08 16:29	6° ∺ 28'52		retrograde	5167 Jan 23 13:53	20° ≈ 43'55	
evening set	5166 Feb 12 14:55	4°) 59'46		asc. node	5167 Jan 25 17:23	20° ≈ 19′22	
	5166 Feb 17 03:15	30°R ≈		evening set	5167 Jan 27 22:43	18° ≈ 59'32	
inferior conj	5166 Feb 17 23:26	28° ≈ 51'19		inferior conj	5167 Feb 02 06:51	12° ≈ 41′26	
minimum elong	5166 Feb 17 21:07	28° ≈ 59'15		minimum elong	5167 Feb 02 04:28	12° ≈ 49'44	
min. Earth dist.	5166 Feb 18 14:13	28° ≈ 00'44	0.67590 AU	min. Earth dist.	5167 Feb 02 09:22	12° ≈ 32'40	0.68039 AU
morning rise	5166 Feb 23 03:06	22° ≈ 37'11		morning rise	5167 Feb 07 10:01	6° ≈ 29'47	
direct	5166 Feb 28 16:48	20°≈08'23		direct	5167 Feb 12 09:13	4°≈21'40	
morning max el	5166 Mar 11 21:22	26°≈49'51	24°18'02	morning max el	5167 Feb 22 07:03	10°≈13'35	22°48'42
1 1	5166 Mar 14 20:04	0° ∀		desc. node	5167 Mar 03 01:38	20°≈37'19	
desc. node	5166 Mar 16 04:36	1° 米 34'12 0° Ƴ			5167 Mar 09 21:09	0°)(
morning set	5166 Apr 05 11:54	18° Y 30'24		morning set	5167 Mar 28 14:43 5167 Mar 29 07:04	28° ¥ 52'18 0° Ƴ	
morning set max. Earth dist.	5166 Apr 16 16:55 5166 Apr 20 09:04	25° Υ 00'33	1.37843 AU	max. Earth dist.	5167 Mai 29 07:04 5167 Apr 02 04:31		1.40049 AU
max. Earth dist.	5166 Apr 23 02:40	0° 8	1.37643 AU	max. Earth dist.	3107 Apr 02 04.31	0 13404	1.40049 AU
	3100 Apr 23 02.40	00		superior conj	5167 Apr 09 23:07	20° Y 18'50	-1°40'54
superior conj	5166 Apr 27 09:17	8° 8 03'41	-1°25'23	minimum elong	5167 Apr 10 04:04	20° Υ 41'25	
minimum elong	5166 Apr 27 13:53	8° 8 25'46		minimum ciong	5167 Apr 15 04:21	0°8	1 4) 2/
evening rise	5166 May 06 03:49	25° 8 18'11	1 2	evening rise	5167 Apr 19 18:47	8° 8 44'13	
asc. node	5166 May 06 19:38	26° 8 36'16		asc. node	5167 Apr 23 16:42	16° 8 06'40	
use. Hode	5166 May 08 13:14	0°Ⅱ		use. Hode	5167 May 02 00:21	0°II	
evening max el	5166 May 22 18:09	22° Ⅱ 14'04	19°06'25	evening max el	5167 May 05 22:17	4° ∏ 39'59	18°27'31
retrograde	5166 May 31 13:59	26° Ⅱ 33'04		retrograde	5167 May 13 11:14	8° Ⅱ 23'55	
evening set	5166 Jun 02 14:11	26° Ⅲ 20'35		evening set	5167 May 15 18:09	8° Ⅱ 04'19	
inferior conj	5166 Jun 10 21:45	22° Ⅲ 08′23	0°22'08	inferior conj	5167 May 23 05:46		1°52'11
minimum elong	5166 Jun 10 22:39	22° I 106'50	0°21'46	minimum elong	5167 May 23 09:07	3° Ⅱ 25'43	1°51'10
desc. node	5166 Jun 12 03:51	21° Ⅱ 16'40		min. Earth dist.	5167 May 26 15:53	0° Ⅱ 49'17	
min. Earth dist.	5166 Jun 13 20:40	20° Ⅱ 07'43	0.56382 AU		5167 May 27 18:43	30° ₹ 8	
morning rise	5166 Jun 19 03:54	17° Ⅱ 15′08		desc. node	5167 May 30 00:52	28° 8 32'55	
direct	5166 Jun 24 06:04	16° Ⅱ 14′29		morning rise	5167 May 30 20:53	28° 8 05'56	
morning max el	5166 Jul 08 11:53	23° Ⅲ 33′28	25°39'24	direct	5167 Jun 05 20:34	26° 8 33'05	
	5166 Jul 14 07:36	0ංම			5167 Jun 15 04:52	$\Pi^{\circ}0$	

morning max el	5167 Jun 20 05:50	4° ∏ 14'46	26°57'49		5168 Jun 13 00:08	0°Щ	
C	5167 Jul 09 01:13	0ංම			5168 Jun 30 12:49	0ಂ ತಾ	
morning set	5167 Jul 20 06:49	21°534'43		morning set	5168 Jul 03 12:49	6° 5 05'13	
asc. node	5167 Jul 20 15:56	22° © 22'48		asc. node	5168 Jul 06 12:59	12° © 25'55	
	5167 Jul 24 04:47	0 ° Ω		max. Earth dist.	5168 Jul 09 17:10	19° 5 19'44	1.31999 AU
superior conj	5167 Jul 27 07:20	6° Ω 50'38	1°04'26	superior conj	5168 Jul 10 18:34	21° © 39'20	0°42'56
minimum elong	5167 Jul 27 05:05	6° £ 38′12	1°04'02	minimum elong	5168 Jul 10 16:48	21° 5 29'35	0°42'34
max. Earth dist.	5167 Jul 27 06:17	6° Ω 44'47	1.31952 AU		5168 Jul 14 13:33	$0 {\circ} \Omega$	
evening rise	5167 Aug 03 03:29	21° Ω 44'22		evening rise	5168 Jul 17 13:50	6° Ω 30′56	
	5167 Aug 07 04:02	O° m y			5168 Jul 29 19:56	O°Mp	
	5167 Aug 25 08:53	0∘ ⊽		desc. node	5168 Aug 11 21:08	17° m 51'22	
desc. node	5167 Aug 26 00:08	0° ჲ 48'48		evening max el	5168 Aug 13 16:47	19° m 40'53	25°26'27
evening max el	5167 Sep 01 21:59	8° ≏ 29'50	26°38'03	retrograde	5168 Aug 27 15:23	26° m 45'15	
retrograde	5167 Sep 15 20:21	15° ≙ 38'43		evening set	5168 Sep 02 12:53	25° m 24'43	
evening set	5167 Sep 22 15:19	13° £ 42'31		min. Earth dist.	5168 Sep 07 04:32	22° m/45'42	
min. Earth dist.	5167 Sep 26 11:48	11° £ 06'44	0.59928 AU	inferior conj	5168 Sep 10 06:44	20° m 37'26	
inferior conj	5167 Sep 29 17:28	8° ≏ 31'48		minimum elong	5168 Sep 10 09:28	20° m/32'41	5°13'00
minimum elong	5167 Sep 29 23:23	8° £ 19'57	4°38'19	morning rise	5168 Sep 18 08:19	16° Mp 21'09	
morning rise	5167 Oct 07 09:31	3° £ 52'14		direct	5168 Sep 20 20:08	16° Mp 02'11	10052146
direct asc. node	5167 Oct 09 17:33 5167 Oct 16 15:10	3° △ 32'12 6° △ 37'11		morning max el	5168 Sep 29 11:32 5168 Oct 02 12:12	20° m 08'31 23° m 29'20	18°53'46
morning max el	5167 Oct 16 13:10 5167 Oct 17 07:39	0 ≗ 37 11 7° ≗ 15'24	18°12'33	asc. node	5168 Oct 02 12.12 5168 Oct 06 23:56	0° ⊽	
morning max er	5167 Oct 17 07.39 5167 Oct 31 20:48	0°M	16 12 33	morning set	5168 Oct 16 00:31	0 <u>≈</u> 16° ≏ 37'48	
morning set	5167 Nov 02 03:20	2°M23'48		morning set	5168 Oct 22 20:15	0°M	
morning set	3107 1404 02 03.20	2 11023 40			3100 Oct 22 20.13	O IIG	
superior conj	5167 Nov 11 14:10	20°M00'15	1°09'36	superior conj	5168 Oct 24 11:20	3°M07'31	1°29'49
minimum elong	5167 Nov 11 18:04	20°M17'54	1°09'08	minimum elong	5168 Oct 24 14:15	3°M21'23	1°29'34
	5167 Nov 17 05:54	0°⊀		max. Earth dist.	5168 Oct 31 11:04	16°M01'14	1.39123 AU
max. Earth dist.	5167 Nov 19 05:12	3° ≯ 22'13	1.41215 AU	evening rise	5168 Nov 04 08:17	22°M48'04	
desc. node	5167 Nov 21 23:22	7° ∡ 759′22		desc. node	5168 Nov 07 20:23	28°M41'25	
evening rise	5167 Nov 24 03:12	11° ∡ ³32′00			5168 Nov 08 15:30	0° ∡	
	5167 Dec 06 00:31	0°る。	22005111		5168 Nov 28 22:05	0°る	2.402.412.2
evening max el	5167 Dec 28 02:26	28° る 55'49	23°05'11	evening max el	5168 Dec 09 15:48	12° る 37'21	24°24'33
. 1	5167 Dec 29 04:47	0° ≈		retrograde	5168 Dec 21 00:04	19°る15'41 17°る00'09	
retrograde	5168 Jan 07 08:46	5°≈00'41 3°≈00'30		evening set asc. node	5168 Dec 26 10:03	17° ろ 00'09	
evening set asc. node	5168 Jan 12 05:36 5168 Jan 12 14:25	3 ≈00 30 2°≈41'21		min. Earth dist.	5168 Dec 29 11:26 5168 Dec 31 02:01	13 3 4311 11° る 40'14	0.67799 AU
asc. Houe	5168 Jan 15 01:54	2 ≈41 21 30°Rる		inferior conj	5168 Dec 31 02:01	11 840 14 10°る33'48	0.07799 AU 0°48'54
inferior conj	5168 Jan 17 14:54	³⁶ දිරි 26° පි 36'16	1°37'25	minimum elong	5168 Dec 31 20:43	10 3 33 48	
minimum elong	5168 Jan 17 12:55	26° ♂ 43'08	1°36'43	morning rise	5169 Jan 06 07:28	4°る32'11	0 4027
min. Earth dist.	5168 Jan 17 06:03	27° ろ 06'48	0.68101 AU	direct	5169 Jan 10 02:53	3° る 09'16	
morning rise	5168 Jan 22 20:08	20° る 28'45		morning max el	5169 Jan 17 19:30	7° る 31'15	20°09'42
direct	5168 Jan 27 04:57	18° る 43'33		desc. node	5169 Feb 03 19:39	0° ≈ 16'39	
morning max el	5168 Feb 04 21:30	23° ⋜ 46'15	21°23'51		5169 Feb 03 15:11	0° ≈	
-	5168 Feb 10 08:11	0° ≈		morning set	5169 Feb 14 05:45	16° ≈ 06'59	
desc. node	5168 Feb 17 22:38	10° ≈ 14'30			5169 Feb 23 02:28	0°) €	
	5168 Mar 02 06:25	0° ∀		max. Earth dist.	5169 Feb 24 14:33	2°) €23'57	1.43838 AU
morning set	5168 Mar 07 07:56	7° ∺ 53'55					
max. Earth dist.	5168 Mar 14 05:45	19°) 02′27	1.42140 AU	superior conj	5169 Mar 02 08:26	11°) (42′45	-2°07'40
	5168 Mar 20 18:13	0 ° $\mathbf{\gamma}$		minimum elong	5169 Mar 02 06:03	11°) 32′59	2°07'37
					5169 Mar 13 05:00	0° Y	
superior conj	5168 Mar 21 16:15	1° Ƴ 34'47		evening rise	5169 Mar 15 04:56	3° Y ′26′52	
minimum elong	5168 Mar 21 19:09	1° Y 47'21	2°05'45	asc. node	5169 Mar 27 10:44	23° Y 53'12	
evening rise	5168 Apr 01 20:36	21° Y 30'07			5169 Apr 01 03:03	0°8	
,	5168 Apr 06 13:30	0° 8		evening max el	5169 Apr 01 21:01	0° 8 46'42	18°09'02
asc. node	5168 Apr 09 13:43	5° 8 14'42	10000125	retrograde	5169 Apr 08 07:24	4° 8 09'15	
evening max el	5168 Apr 18 08:22	17° 8 33'48	18°08'35	evening set	5169 Apr 11 03:25	3° 8 28′27	
retrograde	5168 Apr 25 02:27	20° 8 59'25		inferior con:	5169 Apr 15 16:04	30°₹ Υ 28° Υ 15'57	3022140
evening set	5168 Apr 27 16:14	20° 8 29'58 15° 8 37'13	2°51'07	inferior conj	5169 Apr 17 08:19	28° γ 15'57 28° γ 11'29	3°22'40 3°22'29
inferior conj minimum elong	5168 May 04 10:29 5168 May 04 13:36	15° 6 37′13	2°50'27	minimum elong min. Earth dist.	5169 Apr 17 09:59 5169 Apr 20 03:42	28°γ11'29 25° Υ 18'04	0.62618 AU
min. Earth dist.	5168 May 04 13:36 5168 May 07 17:26	13° 6 29'34 12° 6 34'35	0.60463 AU	min. Earth dist.	5169 Apr 20 03:42 5169 Apr 23 15:10	23° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.02016 AU
morning rise	5168 May 11 08:40	9° 8 46'34	0.00-10 <i>3 I</i> 10	direct	5169 Apr 30 11:28	19° Υ 37'37	
desc. node	5168 May 15 21:53	7° 8 52'07		desc. node	5169 May 02 18:54	19° Y 53'35	
direct	5168 May 17 23:03	7° 8 40'03		morning max el	5169 May 14 12:39	27° Υ 37'59	27°51'27
morning max el	5168 Jun 01 06:20	15° 8 34'50	27°43'33		5169 May 16 18:48	0°8	
<i></i>					,	_	

	5169 Jun 06 17:30	0°П		min. Earth dist.	5170 Apr 02 23:30	8° Ƴ 46'38	0.64520 AU
morning set	5169 Jun 17 13:06	20° Ⅱ 16′12		morning rise	5170 Apr 06 13:54	5° Ƴ 08'30	
-	5169 Jun 22 05:26	0 \circ \odot		direct	5170 Apr 13 08:06	2° Y 20'31	
max. Earth dist.	5169 Jun 23 00:03	1° © 39'32	1.32478 AU	desc. node	5170 Apr 19 15:55	4° Υ 20'38	
asc. node	5169 Jun 23 10:00	2° © 32'56		morning max el	5170 Apr 26 22:10	10° Y 16'36	27°23'25
					5170 May 12 10:22	0° 8	
superior conj	5169 Jun 25 03:28	6° © 17'03	0°17'56		5170 May 30 03:24	0°II	
minimum elong	5169 Jun 25 02:38	6°512'30	0°17'44	morning set	5170 Jun 01 05:05	3° Ⅱ 59'55	1 22 410 411
evening rise	5169 Jul 02 01:35	21° © 18'04 0° Ω		max. Earth dist.	5170 Jun 05 22:59	13° Ⅱ 33'05	1.33410 AU
evening max el	5169 Jul 06 06:26 5169 Jul 26 05:37	0° 70 11'56	23°54'03	superior conj	5170 Jun 09 08:08	20° Ⅱ 38'13	0°00'54
evening max ci	5169 Jul 26 00:42	0°M)	23 34 03	minimum elong	5170 Jun 09 08:39	20° II 40'55	0°09'48
desc. node	5169 Jul 29 18:10	3° mp 12'54		behind sun begin	5170 Jun 09 04:17	20° I 17'46	0 07 40
retrograde	5169 Aug 08 22:51	7° Mp 05'54		behind sun end	5170 Jun 09 13:01	21° I I04'06	
evening set	5169 Aug 13 10:26	6° m/21'34		asc. node	5170 Jun 10 07:02	22° I I40'02	
min. Earth dist.	5169 Aug 19 15:54	3°m/20'54	0.56141 AU		5170 Jun 13 17:13	0ಂಣ	
inferior conj	5169 Aug 21 23:37	1° TQ 56'06	-5°11'29	evening rise	5170 Jun 16 12:53	6°500'01	
minimum elong	5169 Aug 21 20:10	2°Mp01'22	5°11'14		5170 Jun 29 10:06	$0^{\circ}\Omega$	
	5169 Aug 25 07:20	30° R Ω		evening max el	5170 Jul 07 19:49	10° Ω 33'44	22°16'40
morning rise	5169 Aug 30 08:26	27° Ω 59'22		desc. node	5170 Jul 16 15:11	16° Ω 19'40	
direct	5169 Sep 02 02:58	27° Ω 39'47		retrograde	5170 Jul 20 18:17	16° Ω 59'14	
	5169 Sep 09 06:01	0° m/y		evening set	5170 Jul 23 18:13	16° Ω 39'21	
morning max el	5169 Sep 12 04:42	2° Tp 21'08	19°56'54	min. Earth dist.	5170 Aug 01 02:04		0.55038 AU
asc. node	5169 Sep 19 09:14	11°Mp18'16 0° ≏		inferior conj	5170 Aug 01 23:24	12° Ω 33'05	-4°19'56 4°17'59
morning sot	5169 Sep 29 14:41 5169 Sep 30 04:38	1° 10′38		minimum elong morning rise	5170 Aug 01 14:56 5170 Aug 10 13:28	12° Ω 45'03 8° Ω 43'08	4-17-39
morning set	3109 Sep 30 04.38	1 == 1036		direct	5170 Aug 10 13.28 5170 Aug 13 17:19	8° Ω 20'40	
superior conj	5169 Oct 07 22:55	16° ≏ 56'35	1°40'38	morning max el	5170 Aug 25 09:44	13°Ω48'01	21°20'50
minimum elong	5169 Oct 08 00:17	17° Ω 03'24	1°40'36	asc. node	5170 Sep 06 06:17	29° Ω 51'12	21 20 30
max. Earth dist.	5169 Oct 13 16:19	28° £ 04'19	1.37047 AU		5170 Sep 06 08:18	0° m)	
	5169 Oct 14 17:00	0°M		morning set	5170 Sep 14 13:11	15° m 55'34	
evening rise	5169 Oct 17 11:11	5°M03'23		-	5170 Sep 21 06:14	0∘ ⊽	
desc. node	5169 Oct 25 17:25	19° ™ 14'29					
	5169 Nov 01 14:04	0° ∡ ¹		superior conj	5170 Sep 21 20:40	1° ≙ 15′07	1°43'27
evening max el	5169 Nov 22 04:15	26° ≯ ′20'48	25°37'48	minimum elong	5170 Sep 21 20:32	1° ≏ 14'25	1°43'27
	5169 Nov 26 08:55	0° る		max. Earth dist.	5170 Sep 26 02:46	9° £ 55'27	1.35219 AU
retrograde	5169 Dec 04 10:54	3° පි 23'16		evening rise	5170 Sep 30 08:11	18° ≙ 08'55	
evening set	5169 Dec 10 10:24	0°る54'35			5170 Oct 06 20:56	0°M	
i. Danda diak	5169 Dec 11 10:22	30°₹ ⋌ ¹	0.67133 AU	desc. node	5170 Oct 12 14:27	9°M33'26	
min. Earth dist. inferior conj	5169 Dec 14 18:59 5169 Dec 16 01:52	26 x · 09 13 24° x · 30'43		evening max el	5170 Oct 26 19:20 5170 Nov 04 16:59	0° ∡¹ 10° ∡¹ 01'53	26°37'20
minimum elong	5169 Dec 16 02:00	24° × 30°43 24° × 30°16	0°05'33	retrograde	5170 Nov 17 16:33	17° 🖈 17'02	20 37 29
transit middle	5169 Dec 16 02:00	24° × 30'16	0°05'33	evening set	5170 Nov 24 04:44	14°×739'29	
transit begin	5169 Dec 15 23:22	24°×38'42	0 00 00	min. Earth dist.	5170 Nov 28 06:41	10° ∡ 129'18	0.66115 AU
transit end	5169 Dec 16 04:39	24° ∡ °21'50		inferior conj	5170 Nov 30 00:58	8° ∡ ¹23'21	-1°05'05
asc. node	5169 Dec 16 08:28	24° ₹ 09'40		minimum elong	5170 Nov 30 02:47	8° ∡ 17'56	1°04'18
morning rise	5169 Dec 21 18:00	18° ∡ ³37'05		asc. node	5170 Dec 03 05:30	4° ₹ ⁷ 50'56	
direct	5169 Dec 25 01:37	17° ∡ ³33'48		morning rise	5170 Dec 06 01:36	2° ∡ ¹40'11	
morning max el	5170 Jan 01 01:22	21° ∡ ¹26'35	19°09'51	direct	5170 Dec 08 23:28	1° ∡ 752'48	
	5170 Jan 07 23:55	0°る		morning max el	5170 Dec 15 13:32	5° ∡ ¹27'26	18°26'00
greatest brilliancy	5170 Jan 14 20:18	10°る04'42	-0.7m		5171 Jan 01 14:10	0°る	
desc. node	5170 Jan 21 16:40	20° る 36'42		morning set	5171 Jan 04 10:25	4°る33'03	
morning set	5170 Jan 24 07:39 5170 Jan 27 17:44	24°る40'58 0°≈		desc. node	5171 Jan 08 13:42	11° る 09'21	
max. Earth dist.	5170 Jan 27 17.44 5170 Feb 07 05:20	0 ≈ 16°≈23'45	1.44938 AU	superior conj	5171 Jan 20 03:39	29° る 26'25	-1°14'42
max. Earth dist.	3170100 07 03.20	10 23 43	1.44936 AU	minimum elong	5171 Jan 19 18:58	29 3 2023 28° 3 52'20	
superior conj	5170 Feb 10 00:25	20° ≈ 48'39	-1°50'31	olong	5171 Jan 20 12:13	0°≈	
minimum elong	5170 Feb 09 16:09	20°≈15'56		max. Earth dist.	5171 Jan 20 23:48	0°≈45'26	1.45334 AU
>	5170 Feb 15 18:37	0°) €	•	evening rise	5171 Feb 05 03:02	24°≈31'14	
evening rise	5170 Feb 24 15:38	14°) €27'14		Č	5171 Feb 08 14:19	0° ∀	
-	5170 Mar 06 03:25	0 ° Υ		greatest brilliancy	5171 Feb 15 02:17	10° ¥ 12′23	-0.8m
asc. node	5170 Mar 14 07:45	11° Y ′52'58		evening max el	5171 Feb 27 19:05	27° ¥ 42′20	19°04'57
evening max el	5170 Mar 16 09:24	14° Y °11'32	18°28'11	asc. node	5171 Mar 01 04:47	29° ∺ 02′01	
retrograde	5170 Mar 22 21:24	17° Y ′44'07			5171 Mar 02 10:06	0° Υ	
evening set	5170 Mar 25 23:41	16° Ƴ 50'54		retrograde	5171 Mar 06 16:45	1° Y 36′18	
inferior conj	5170 Mar 31 19:06		3°32'53	evening set	5171 Mar 10 01:58	0° Y 29'46	
minimum elong	5170 Mar 31 19:10	11° Y ′20'12	3°32'52		5171 Mar 10 18:38	30° ₹ ₩	

	515134 15 15 00	240)(42152	202451		5150 51 00 05 54	1.40\/.2011.5	
inferior conj	5171 Mar 15 15:09	24°) 42'52		evening set	5172 Feb 22 07:54	14° ∺ 20'17	
minimum elong	5171 Mar 15 13:55	24°) 46′47	3°26'44	inferior conj	5172 Feb 27 17:29	8° ¥ 19′02	3°08'16
min. Earth dist.	5171 Mar 17 04:03	22°) 45'38	0.66050 AU	minimum elong	5172 Feb 27 15:26	8° ¥ 25'57	3°07'53
morning rise	5171 Mar 21 01:29	18° ¥ 28'27		min. Earth dist.	5172 Feb 28 15:54	7° ₩ 03'55	0.67156 AU
direct	5171 Mar 27 11:31	15°) 39′29		morning rise	5172 Mar 03 22:44	2°) €04'30	
desc. node	5171 Apr 06 12:57	20°) 38′58			5172 Mar 07 01:40	30° Ŗ ≈	
morning max el	5171 Apr 09 08:06	23°) (17′36	26°25'53	direct	5172 Mar 09 20:32	29° ≈ 26′04	
	5171 Apr 15 07:02	$0^{\circ}\mathbf{\Upsilon}$			5172 Mar 12 19:56	0°) €	
	5171 May 05 18:22	0°8		morning max el	5172 Mar 21 17:06	6°) 31′13	25°08'02
morning set	5171 May 15 09:10	17° 8 04'58		desc. node	5172 Mar 23 09:59	8° ¥ 18'29	
max. Earth dist.	5171 May 19 10:52	24° 8 54'43	1.34813 AU		5172 Apr 08 22:20	$0^{\circ}\Upsilon$	
	5171 May 22 00:09	0°II		morning set	5172 Apr 26 20:44	29°Υ18'36	
	3171 May 22 00.07	v =		morning sec	5172 Apr 27 05:58	0°8	
superior conj	5171 May 24 06:12	4° Ⅱ 35'08	0°30'26	max. Earth dist.	5172 Apr 30 12:11	5° 8 57'53	1.36652 AU
	•	4° ∏ 46'12		max. Lartii dist.	3172 Apr 30 12.11	3 03/33	1.50052 AU
minimum elong	5171 May 24 08:21	12° I I42'27	0 3901		5172 M 06 19.47	100 🗸 00112	1900107
asc. node	5171 May 28 04:04			superior conj	5172 May 06 18:47	18° 8 00'13	
evening rise	5171 May 31 21:41	20° Ⅲ 29'45		minimum elong	5172 May 06 22:37	18° 8 19'06	1°08'30
	5171 Jun 05 15:01	0 \circ \odot			5172 May 12 18:15	0°П	
evening max el	5171 Jun 19 19:10	21° © 18'09	20°48'33	asc. node	5172 May 14 01:07	2° Ⅱ 36′15	
retrograde	5171 Jul 01 06:37	26° © 56'08		evening rise	5172 May 15 01:50	4° Ⅱ 41'01	
evening set	5171 Jul 03 09:10	26°\$345'31			5172 May 29 19:40	0 \circ ∞	
desc. node	5171 Jul 03 12:13	26°5944'13		evening max el	5172 Jun 01 06:55	2° © 42'26	19°37'48
inferior conj	5171 Jul 12 16:29	22° © 48'30	-2°40'56	retrograde	5172 Jun 11 00:43	7° 5 28'06	
minimum elong	5171 Jul 12 09:10	22° © 58'53	2°38'27	evening set	5172 Jun 12 22:57	7° © 17'45	
min. Earth dist.	5171 Jul 13 13:05	22° © 19'11	0.54829 AU	desc. node	5172 Jun 19 09:15	4° © 39'54	
morning rise	5171 Jul 21 08:54	18° 5 46'24		inferior conj	5172 Jun 21 17:25	3° © 13'59	-0°41'59
direct	5171 Jul 25 02:34	18°916'22		minimum elong	5172 Jun 21 15:31	3°516'59	
morning max el	5171 Aug 07 04:21	24°532'49	23°00'20	min. Earth dist.	5172 Jun 24 02:04	1° © 45'13	0.55579 AU
morning max ci	5171 Aug 07 04:21 5171 Aug 12 04:19	0°Ω	23 00 20	mm. Latin dist.	5172 Jun 27 04:09	30°R∏	0.55577 AO
	•				5172 Jun 30 05:42	28°∏42'06	
asc. node	5171 Aug 24 03:20	18° Ω 57'11		morning rise			
	5171 Aug 29 15:16	0° m		direct	5172 Jul 04 18:54	27° ∏ 56′02	
morning set	5171 Aug 30 00:13	0° ™ 47'04			5172 Jul 12 05:26	0° ©	
				morning max el	5172 Jul 18 18:02	4° 9 54'49	24°44'04
superior conj	5171 Sep 06 01:21	15° m 53'15	1°39'29		5172 Aug 05 14:46	$0^{\circ}\Omega$	
minimum elong	5171 Sep 06 00:03	15°Mp46'17	1°39'25	asc. node	5172 Aug 10 00:22	8° Ω 27'34	
max. Earth dist.	5171 Sep 08 22:02	21° m 57'05	1.33763 AU	morning set	5172 Aug 13 11:58	15° Ω 39'52	
	5171 Sep 12 20:16	0∘ ⊽					
evening rise	5171 Sep 13 19:04	1° ≏ 53'26		superior conj	5172 Aug 20 10:23	0° Mp42'58	1°29'45
desc. node	5171 Sep 29 11:30	29° £ 31'49		minimum elong	5172 Aug 20 08:20	0° mp 31'51	1°29'31
	5171 Sep 29 18:47	0°M		· ·	5172 Aug 20 02:31	0° m)	
evening max el	5171 Oct 18 05:39	23°M31'32	27°16'07	max. Earth dist.	5172 Aug 22 01:43	4° m) 16'55	1.32727 AU
evening max er	5171 Oct 27 12:45	0° ⊼	27 1007	evening rise	5172 Aug 27 16:03	16°Mp06'11	1.52727 110
retrograde	5171 Oct 27 12:43 5171 Oct 31 16:13	0° ∡ 749'36		evening rise	5172 Sep 03 20:06	0° ت	
retrograde		0 x ⁴4930 30°RM		desc. node	5172 Sep 05 20:00 5172 Sep 15 08:32	0 = 19° ⊆ 00'27	
	5171 Nov 04 13:50			desc. node	•		
evening set	5171 Nov 07 14:45	28°M10'00	0.64550.433		5172 Sep 23 13:24	0°M	25020150
min. Earth dist.	5171 Nov 11 10:45	24°M34'35		evening max el	5172 Sep 29 16:17	6°M36'04	27°26'59
inferior conj	5171 Nov 13 16:56	22°M06'55		retrograde	5172 Oct 13 09:17	13°M51'40	
minimum elong	5171 Nov 13 20:39	21°M56'47	2°06'22	evening set	5172 Oct 20 13:21	11° M 19'17	
morning rise	5171 Nov 20 03:43	16°M37'20		min. Earth dist.	5172 Oct 24 05:05	8°M15'14	
asc. node	5171 Nov 20 02:33	16° ™ 38'39		inferior conj	5172 Oct 26 22:58	5° ™ 34'07	-3°11'15
direct	5171 Nov 22 18:08	16° ™ 01'59		minimum elong	5172 Oct 27 04:26	5° ™ 20'43	3°09'21
morning max el	5171 Nov 29 05:29	19°M27'52	17°59'01	morning rise	5172 Nov 02 21:06	0°M21'38	
	5171 Dec 07 02:52	0° ∡ ¹			5172 Nov 04 05:13	30° Ŗ亞	
morning set	5171 Dec 16 18:46	15° ∡ ¹53'35		direct	5172 Nov 05 06:38	29° ♀ 54'40	
Č	5171 Dec 25 07:31	6°0		asc. node	5172 Nov 05 23:37	29° ≏ 57'04	
desc. node	5171 Dec 26 10:44	1° る 50'42			5172 Nov 06 07:56	0°M	
				morning max el	5172 Nov 11 22:16	3°M20'24	17°49'31
superior conj	5171 Dec 30 14:14	8° ට 31'23	-0°28'36	morning set	5172 Nov 28 03:38	28°M24'28	17 1931
minimum elong	5171 Dec 30 14:14 5171 Dec 30 10:46	8°る17'31		morning set	5172 Nov 28 03:38 5172 Nov 29 01:25	20 1162420 0°×7	
•					31/2 NOV 29 U1.23	υ χ .	
	5172 Ion 02 10.21	15° る 12'50	1.44987 AU		5170 D 00 00 00	100 7/4/00	0017120
max. Earth dist.	5172 Jan 03 19:21	00-					
	5172 Jan 13 06:47	0° ≈		superior conj	5172 Dec 09 23:35	18° 🗷 44'09	0°16'28
evening rise	5172 Jan 13 06:47 5172 Jan 15 19:43	3° ≈ 55'04		minimum elong	5172 Dec 10 01:14	18° ∡ 51′02	0°16'15
	5172 Jan 13 06:47 5172 Jan 15 19:43 5172 Jan 30 02:34	3°≈55'04 25°≈35'47	-0.6m	minimum elong desc. node	5172 Dec 10 01:14 5172 Dec 12 07:46	18° ⊀ 51′02 22° ⊀ 36′31	0°16'15
evening rise greatest brilliancy	5172 Jan 13 06:47 5172 Jan 15 19:43	3°≈55'04 25°≈35'47 0°¥		minimum elong	5172 Dec 10 01:14	18° ₹ 51'02 22° ₹ 36'31 29° ₹ 26'52	
evening rise	5172 Jan 13 06:47 5172 Jan 15 19:43 5172 Jan 30 02:34 5172 Feb 02 03:23 5172 Feb 11 00:18	3°≈55'04 25°≈35'47 0° X 11° X 16'09	-0.6m 19°57'39	minimum elong desc. node max. Earth dist.	5172 Dec 10 01:14 5172 Dec 12 07:46 5172 Dec 16 12:49 5172 Dec 16 21:04	18°♂51'02 22°♂36'31 29°♂26'52 0°♂	0°16'15
evening rise greatest brilliancy	5172 Jan 13 06:47 5172 Jan 15 19:43 5172 Jan 30 02:34 5172 Feb 02 03:23	3°≈55'04 25°≈35'47 0°¥		minimum elong desc. node	5172 Dec 10 01:14 5172 Dec 12 07:46 5172 Dec 16 12:49	18° ₹ 51'02 22° ₹ 36'31 29° ₹ 26'52	0°16'15
evening rise greatest brilliancy evening max el	5172 Jan 13 06:47 5172 Jan 15 19:43 5172 Jan 30 02:34 5172 Feb 02 03:23 5172 Feb 11 00:18	3°≈55'04 25°≈35'47 0° X 11° X 16'09		minimum elong desc. node max. Earth dist.	5172 Dec 10 01:14 5172 Dec 12 07:46 5172 Dec 16 12:49 5172 Dec 16 21:04	18°♂51'02 22°♂36'31 29°♂26'52 0°♂	0°16'15

5174 Jan 06 18:22

5174 Jan 16 09:20

evening max el

retrograde

8°**≈**25'57

14°≈09'26

22°19'23

evening rise

desc. node

5174 Nov 15 17:03

5174 Nov 16 01:49

3°×32'10

4°**₹**08'30

	5174 Dec 02 20:57	0° ට		retrograde	5175 Dec 14 16:22	12° る 37'37	
evening max el	5174 Dec 02 20:57 5174 Dec 20 08:59	22° る 04'56	23°39'21	evening set	5175 Dec 20 08:01	12 3 737	
retrograde	5174 Dec 31 02:57	28° පි 25'41	23 3721	asc. node	5175 Dec 24 13:57	5° る 33'24	
evening set	5175 Jan 05 05:08	26° ප 18'59		min. Earth dist.	5175 Dec 24 20:51	5° る 10'55	0.67555 AU
asc. node	5175 Jan 06 16:55	24°る52'50		inferior conj	5175 Dec 25 21:15	3° る 50'40	0°26'28
min. Earth dist.	5175 Jan 10 01:49	20° ට 39'17	0.68007 AU	minimum elong	5175 Dec 25 20:36	3° る 52'48	0°26'12
inferior conj	5175 Jan 10 15:20	19°る53'07	1°17'40		5175 Dec 29 00:12	30°R <i>x</i> 7	
minimum elong	5175 Jan 10 13:39		1°17'01	morning rise	5175 Dec 31 09:22	27° х 51'56	
morning rise	5175 Jan 15 22:07	13° る 47'37		direct	5176 Jan 03 23:37	26° ҂ ³37'35	
direct	5175 Jan 20 01:01	12° る 12'07			5176 Jan 10 13:03	8°0	
morning max el	5175 Jan 28 06:44	16° පි 56'44	20°50'43	morning max el	5176 Jan 11 08:03	0° る 45'41	19°42'20
	5175 Feb 07 18:57	0° ≈		greatest brilliancy	5176 Jan 24 09:23	17° る 55'57	-0.7m
desc. node	5175 Feb 12 01:02	6° ≈ 03'21		desc. node	5176 Jan 29 22:03	26° る 13'39	
morning set	5175 Feb 27 02:29	28° ≈ 47'18			5176 Feb 01 09:30	0° ≈	
	5175 Feb 27 21:05	0°) €		morning set	5176 Feb 05 22:39	6° ≈ 59'01	
max. Earth dist.	5175 Mar 07 09:04	11°) 57'17	1.42914 AU	max. Earth dist.	5176 Feb 17 20:42	25° ≈ 36'55	1.44386 AU
					5176 Feb 20 14:41	0° ∀	
superior conj	5175 Mar 14 06:45	23° ∺ 22'57	-2°08'42				
minimum elong	5175 Mar 14 07:47	23° ∺ 27'19	2°08'41	superior conj	5176 Feb 22 12:02	3° 米 02′16	-2°02'53
	5175 Mar 18 03:45	0 ° $\mathbf{\gamma}$		minimum elong	5176 Feb 22 06:52	2°) (41′29	2°02'39
evening rise	5175 Mar 26 03:25	14° Ƴ 02'49		evening rise	5176 Mar 07 02:53	25°) €35'23	
	5175 Apr 04 07:26	$_{0\circ}$ 8			5176 Mar 09 17:20	0 ° Υ	
asc. node	5175 Apr 04 16:13	0° 8 35'37		asc. node	5176 Mar 21 13:15	18° Ƴ 58'40	
evening max el	5175 Apr 12 00:39	10° 8 30'35	18°06'32	evening max el	5176 Mar 25 13:35	23° Y 49'21	18°15'02
retrograde	5175 Apr 18 14:12	13° 8 52'58		retrograde	5176 Mar 31 23:24	27° Ƴ 14'17	
evening set	5175 Apr 21 06:42	13° 8 18'53		evening set	5176 Apr 03 22:11	26° Y 28′09	
inferior conj	5175 Apr 27 18:48		3°07'27	inferior conj	5176 Apr 09 22:36	21° Y ′07'51	3°29'14
minimum elong	5175 Apr 27 21:23	8° 8 11'31	3°07'00	minimum elong	5176 Apr 09 23:35	21° Y 05'07	3°29'10
min. Earth dist.	5175 Apr 30 21:42	5° 8 14'16	0.61397 AU	min. Earth dist.	5176 Apr 12 11:48	18° Y 18′27	0.63470 AU
morning rise	5175 May 04 10:08	2° 8 20'13		morning rise	5176 Apr 15 23:56	14° Y 59'34	
direct	5175 May 11 04:17	0° 8 00'37		direct	5176 Apr 22 20:22	12°Υ18'20	
desc. node	5175 May 11 00:16	0° 8 00'42		desc. node	5176 Apr 26 21:17	13° Y 07'19	
morning max el	5175 May 25 09:19	7° 8 59'08	27°51'26	morning max el	5176 May 06 17:08	20° Y 17′27	27°43'38
	5175 Jun 11 04:53	0°II			5176 May 15 01:05	8°0	
morning set	5175 Jun 27 11:02	29° Ⅱ 31′24			5176 Jun 03 05:36	0°П	
	5175 Jun 27 16:35	0°©		morning set	5176 Jun 10 08:09	13° ∏ 31'31	1 22021 ATT
asc. node	5175 Jul 01 15:29	8°919'53	1 22151 ATT	max. Earth dist.	5176 Jun 15 11:41	24° Ⅲ 07'09 28° Ⅲ 27'23	1.32821 AU
max. Earth dist.	5175 Jul 03 07:43	11°957'34	1.32151 AU	asc. node	5176 Jun 17 12:32	28°Щ2723	
superior conj	5175 Jul 04 20:00	15° © 15'41	0022144	superior conj	5176 Jun 18 03:23	29° ∏ 47'12	0.06127
minimum elong	5175 Jul 04 18:34	15°907'51	0°32'44 0°32'26	minimum elong	5176 Jun 18 03:04	29° II 47'12	0°06'23
evening rise	5175 Jul 11 16:00	0° Ω 09'32	0 32 20	behind sun begin	5176 Jun 17 22:10	29° I I19'07	0 00 23
evening rise	5175 Jul 11 14:13	0° Ω		behind sun end	5176 Jun 18 07:58	0°9511'53	
	5175 Jul 28 00:43	0° m)		bennia sun ena	5176 Jun 18 05:46	0.2 0.3	
evening max el	5175 Aug 06 13:11	11° m 33'30	24°48'48	evening rise	5176 Jun 25 03:49	14°955'23	
desc. node	5175 Aug 06 23:34	11° m 58'03	2	evening rise	5176 Jul 02 16:34	0° Ω	
retrograde	5175 Aug 20 10:56	18° m) 34'33		evening max el	5176 Jul 18 01:47	21° Ω 57'15	23°12'19
evening set	5175 Aug 25 18:52	17° m/30'26		desc. node	5176 Jul 23 20:34	26° Ω 27'02	
min. Earth dist.	5175 Aug 31 00:35		0.57092 AU	retrograde	5176 Jul 31 12:39	28° Ω 40'53	
inferior conj	5175 Sep 02 20:43	12° m 52'33		evening set	5176 Aug 04 08:30	28° Ω 08'52	
minimum elong	5175 Sep 02 21:04	12° m 51'59		min. Earth dist.	5176 Aug 11 10:57		0.55582 AU
morning rise	5175 Sep 11 01:37	8° Mp 45'03		inferior conj	5176 Aug 13 05:39	23° Q 52'38	-4°56'11
direct	5175 Sep 13 15:51	8° Mp 26'04		minimum elong	5176 Aug 12 23:33	24° Ω 01'34	4°55'17
morning max el	5175 Sep 22 21:06	12° m 46'19	19°17'50	morning rise	5176 Aug 21 16:53	20° Ω 00'45	
asc. node	5175 Sep 27 14:43	18° m 18'19		direct	5176 Aug 24 15:20	19° Ω 40'05	
	5175 Oct 04 17:27	0∘ ত		morning max el	5176 Sep 04 09:04	24° Ω 39'42	20°30'10
morning set	5175 Oct 09 22:46	10° ≏ 07'17			5176 Sep 09 02:52	0° My	
				asc. node	5176 Sep 13 11:46	6° Mp 27′46	
superior conj	5175 Oct 18 01:44	26° ≏ 16′04	1°35'28	morning set	5176 Sep 23 05:07	24° m 46'54	
minimum elong	5175 Oct 18 04:01	26° ≏ 27'08	1°35'19		5176 Sep 25 17:49	0∘ ⊽	
	5175 Oct 20 00:09	0°M₊					
max. Earth dist.	5175 Oct 24 13:25	8°M30'39	1.38227 AU	superior conj	5176 Sep 30 18:10	10° ≏ 19'30	1°42'44
evening rise	5175 Oct 28 07:48	15° M 14'27		minimum elong	5176 Sep 30 18:52	10° ≏ 23'04	1°42'43
desc. node	5175 Nov 02 22:50	24°M47'12		max. Earth dist.	5176 Oct 05 20:48	20° ≏ 28'17	1.36237 AU
	5175 Nov 06 04:15	0° ∡ ″		evening rise	5176 Oct 09 19:02	27° ≏ 53'11	
	5175 Nov 27 13:56	0°ಕ			5176 Oct 10 22:44	0°M	
evening max el	5175 Dec 02 21:55	5° ಕ 48'00	24°57'04	desc. node	5176 Oct 19 19:53	15°M15'26	

	5176 Oct 29 12:14	0° ∡ ¹			5177 Oct 03 08:28	0°M	
evening max el	5176 Nov 14 10:39	19° ∡ ³32'15	26°05'15	desc. node	5177 Oct 06 16:55	5°M26'36	
retrograde	5176 Nov 27 00:53	26° х 40′33			5177 Oct 24 21:18	0°⊀	
evening set	5176 Dec 03 06:04	24° ₹ 07'31		evening max el	5177 Oct 27 23:21	3° ₹ 09'18	26°56'43
min. Earth dist.	5176 Dec 07 11:49	19° ∡ ³37'10	0.66751 AU	retrograde	5177 Nov 10 04:01	10° ∡ °26′38	
inferior conj	5176 Dec 08 23:28	17° ∡ ¹46'35	-0°30'17	evening set	5177 Nov 16 21:11	7° ∡ ¹46'54	
minimum elong	5176 Dec 09 00:16	17° ∡ ⁴44'04	0°29'56	min. Earth dist.	5177 Nov 20 20:24	3° ≯ 52'01	0.65586 AU
asc. node	5176 Dec 10 10:58	15° ₹ 58'25		inferior conj	5177 Nov 22 19:49	1° ∡ ³35'47	-1°31'25
morning rise	5176 Dec 14 18:59	11° ₰ 757'06		minimum elong	5177 Nov 22 22:26	1° ∡ ¹28'18	1°30'19
direct	5176 Dec 17 22:19	11° ∡ ¹00'55			5177 Nov 24 05:45	30°RM₊	
morning max el	5176 Dec 24 16:52	14° ∡ ⁴44'15	18°49'11	asc. node	5177 Nov 27 08:01	27° M 02'58	
	5177 Jan 05 02:15	0°ರ		morning rise	5177 Nov 29 00:38	25°M58'19	
morning set	5177 Jan 15 09:35	16° පි 02'24		direct	5177 Dec 01 19:02	25°M16'33	
desc. node	5177 Jan 15 19:07	16° පි 39'50		morning max el	5177 Dec 08 07:04	28°M46'06	18°12'26
	5177 Jan 24 07:22	0° ≈			5177 Dec 09 11:00	0°⊀	
max. Earth dist.	5177 Jan 30 13:58	9° ≈ 50'02	1.45205 AU	morning set	5177 Dec 27 01:08	26° ₹ 33'03	
					5177 Dec 29 04:03	0°ಕ	
superior conj	5177 Jan 31 20:24	11° ≈ 49'32	-1°37'16	desc. node	5178 Jan 02 16:11	7° る 16'40	
minimum elong	5177 Jan 31 11:02	11° ≈ 12'44	1°36'23				
	5177 Feb 12 07:23	0° ℋ		superior conj	5178 Jan 11 00:14	20° る 31'57	
evening rise	5177 Feb 16 03:36	6° ₩ 10'54		minimum elong	5178 Jan 10 17:24	20° පි 05'01	0°54'47
	5177 Mar 03 06:00	0 ° $\mathbf{\gamma}$		max. Earth dist.	5178 Jan 13 09:24	24° る 16'40	1.45278 AU
asc. node	5177 Mar 08 10:17	6° Ƴ 37'56			5178 Jan 17 01:06	0° ≈	
evening max el	5177 Mar 09 01:03	7° Y 16′35	18°41'44	evening rise	5178 Jan 27 06:04	15° ≈ 55'00	
retrograde	5177 Mar 15 16:09	10° Y 56′56			5178 Feb 05 07:50	0° ∀	
evening set	5177 Mar 18 21:21	9° Ƴ 57'58		greatest brilliancy	5178 Feb 08 06:26	4°) €29'43	-0.7m
inferior conj	5177 Mar 24 13:42	4° Υ 19'59	3°32'02	evening max el	5178 Feb 20 08:55	20°) 48′19	19°25'30
minimum elong	5177 Mar 24 13:10	4° Y 21'37	3°32'01	asc. node	5178 Feb 23 07:17	23° ∺ 21'16	
min. Earth dist.	5177 Mar 26 11:19	2° Υ 01'01	0.65221 AU	retrograde	5178 Feb 27 12:59	24°) 54'49	
	5177 Mar 28 05:48	30° ₹		evening set	5178 Mar 03 01:26	23°) (42'22	
morning rise	5177 Mar 30 04:29	28°) (06'40		inferior conj	5178 Mar 08 12:46	17°) (48'52	
direct	5177 Apr 05 19:44	25°) 17′02		minimum elong	5178 Mar 08 11:07	17°) 54'13	3°20'07
desc. node	5177 Apr 13 18:19	28°) €25'12		min. Earth dist.	5178 Mar 09 19:18	16°) €09'12	0.66566 AU
	5177 Apr 15 18:48	0° Υ	27002100	morning rise	5178 Mar 13 20:32	11°) (33'54	
morning max el	5177 Apr 19 03:10	3° Y 06'41	27°02'09	direct	5178 Mar 20 01:33	8°) (48′23	
. ,	5177 May 09 08:59	0°8		desc. node	5178 Mar 31 15:23	15° ¥ 21'16	25054145
morning set	5177 May 24 19:32	26° 8 59'37		morning max el	5178 Apr 01 13:02	16° 米 14'56 0° Υ	25°54'45
Earth diet	5177 May 26 08:40	0° П	1.33949 AU		5178 Apr 12 22:14	0° ∀	
max. Earth dist.	5177 May 29 06:26	5°Д4/48	1.33949 AU	marning sat	5178 May 02 06:26	.T.	
superior conj	5177 Jun 02 05:32	13° Ⅱ 58'20	0°22'17	morning set max. Earth dist.	5178 May 07 17:18 5178 May 11 13:41	9° 8 44'48 16° 8 59'34	1.35539 AU
minimum elong	5177 Jun 02 05:32 5177 Jun 02 06:43	13 II 38 20 14° II 04'31	0°22'02	max. Earth dist.	3176 Way 11 13.41	10 03934	1.55559 AO
asc. node	5177 Jun 02 00:45	18° I I32'37	0 22 02	superior conj	5178 May 16 23:58	27° 8 42'30	-0°52'07
evening rise	5177 Jun 09 14:19	29° II 32'44		minimum elong	5178 May 17 02:51	27° 8 57'06	
evening rise	5177 Jun 09 19:32	0°9		minimum ciong	5178 May 18 03:04	0°II	0 31 30
	5177 Jun 27 12:34	$0 {\circ} \Omega$		asc. node	5178 May 22 06:37	8° ∏ 31'46	
evening max el	5177 Jun 29 18:58	2° Ω 24'29	21°37'25	evening rise	5178 May 24 21:28	13° ∏ 55′27	
desc. node	5177 Jul 10 17:36	8° Ω 27'06	21 37 20	e vening rise	5178 Jun 02 05:54	0°9	
retrograde	5177 Jul 12 04:02	8° Ω 31'58		evening max el	5178 Jun 11 23:26	13° © 24'35	20°16'09
evening set	5177 Jul 14 16:48	8° Ω 17'25		retrograde	5178 Jun 22 17:40	18° © 40'36	
inferior conj	5177 Jul 24 00:53	4° Ω 16'32	-3°42'37	evening set	5178 Jun 24 16:22	18° © 30'59	
minimum elong	5177 Jul 23 16:04	4° Ω 28'51		desc. node	5178 Jun 27 14:36	17° © 43'19	
min. Earth dist.	5177 Jul 23 20:57		0.54828 AU	inferior conj	5178 Jul 03 19:38	14° © 32'44	-1°50'54
morning rise	5177 Aug 01 16:33	0° Ω 24'25		minimum elong	5178 Jul 03 14:27	14° © 40'23	1°49'00
Č	5177 Aug 04 15:46	30° ₹ 5		min. Earth dist.	5178 Jul 05 08:54	13° © 37'53	0.55024 AU
direct	5177 Aug 05 01:35	29° © 59'38		morning rise	5178 Jul 12 11:14	10°©19'23	
	5177 Aug 05 11:22	$0^{\circ}\Omega$		direct	5178 Jul 16 12:11	9°5544'00	
morning max el	5177 Aug 17 09:15	5° Ω 47'22	22°01'50	morning max el	5178 Jul 30 01:12	16° © 20'17	23°44'49
asc. node	5177 Aug 31 08:49	25° Ω 15'53			5178 Aug 09 23:14	$0^{\circ}\Omega$	
	5177 Sep 02 21:15	0° m		asc. node	5178 Aug 18 05:53	14° Ω 33′10	
morning set	5177 Sep 07 14:59	9° m 35'37		morning set	5178 Aug 23 02:31	24° Ω 28′18	
					5178 Aug 25 16:31	0° M	
superior conj	5177 Sep 14 19:15	24° m 47'43	1°42'33				
minimum elong	5177 Sep 14 18:34	24° m 44'09	1°42'31	superior conj	5178 Aug 30 02:05	9° ™ 31'54	1°36'01
	5177 Sep 17 07:09	0∘ ত		minimum elong	5178 Aug 30 00:25	9° m 22′54	1°35'53
max. Earth dist.	5177 Sep 18 10:59	2° ≏ 22'44	1.34549 AU	max. Earth dist.	5178 Sep 01 09:49	14° m 30'52	1.33267 AU
evening rise	5177 Sep 22 22:26	11° ≏ 16′29		evening rise	5178 Sep 06 14:01	25° m 14'06	

desc. node	5178 Sep 08 23:57 5178 Sep 23 13:55	0° ჲ 25° ჲ 13'20		superior conj minimum elong	5179 Aug 14 12:19 5179 Aug 14 10:06	24°Ω24'06 24°Ω11'58	1°24'04 1°23'47
evening max el	5178 Sep 26 19:38 5178 Oct 10 11:11	0° M. 16° M. 29'00	27°24'20	max. Earth dist.	5179 Aug 15 16:03 5179 Aug 17 01:49	26° Ω 56'04 0° m	1.32410 AU
retrograde	5178 Oct 24 01:11	23°M47'17	27 24 20	evening rise	5179 Aug 17 01:49 5179 Aug 21 14:20	9° m ₂ 35'50	
evening set	5178 Oct 31 02:47	21°M09'10		Č	5179 Sep 01 07:47	0∘ ⊽	
min. Earth dist.	5178 Nov 03 20:32	17° M 47'50	0.64076 AU	desc. node	5179 Sep 10 10:56	14° ≙ 25'36	
inferior conj	5178 Nov 06 07:54	15°M12'54		evening max el	5179 Sep 22 20:17	29° £ 19'14	27°22'03
minimum elong	5178 Nov 06 12:24	15°M01'06 9°M50'21	2°33'11		5179 Sep 23 13:53 5179 Oct 06 15:32	0°M 6°M33′29	
morning rise asc. node	5178 Nov 12 23:27 5178 Nov 14 05:05	9°11L30'21 9°11L27'11		retrograde evening set	5179 Oct 06 15:32 5179 Oct 13 19:29	4°ML07'58	
direct	5178 Nov 15 11:20	9°M19'08		min. Earth dist.	5179 Oct 17 10:34	1°ML14'33	0.62261 AU
morning max el	5178 Nov 21 23:47	12°M44'07	17°52'43		5179 Oct 18 19:00	30° ₹ Ω	
	5178 Dec 03 21:51	0° ∡ ¹		inferior conj	5179 Oct 20 08:48	28° ≏ 31'12	-3°37'15
morning set	5178 Dec 08 20:40	8° ₹ 25'22		minimum elong	5179 Oct 20 14:49	28° ≙ 17'11	3°35'22
desc. node	5178 Dec 20 13:12	28° ₹ 00'04		morning rise	5179 Oct 27 11:55	23° £ 26'49	
	5170 D 21 10:20	00=00146	0000140	direct	5179 Oct 29 20:07	23° ♀ 02'30 23° ♀ 25'41	
superior conj minimum elong	5178 Dec 21 19:20 5178 Dec 21 18:20	0°る02'46 29°₹58'41	0°08'39	asc. node morning max el	5179 Nov 01 02:09 5179 Nov 05 15:59	26° £ 2541 26° £ 31'06	17°50'55
behind sun begin	5178 Dec 21 18:20 5178 Dec 21 09:48	29°×724'01	0 0037	morning max ci	5179 Nov 08 16:14	0°M	17 30 33
behind sun end	5178 Dec 22 02:52	0° る 33'18		morning set	5179 Nov 21 14:02	21°M20'36	
	5178 Dec 21 18:40	ರ°0		_	5179 Nov 26 10:34	0° ∡ ¹	
max. Earth dist.	5178 Dec 27 03:47	8° ප 38'06	1.44620 AU				
evening rise	5179 Jan 06 17:59	25° る 09'17		superior conj	5179 Dec 02 16:06	10° ∡ ¹48'54	0°33'17
	5179 Jan 09 21:56	0° ≈		minimum elong	5179 Dec 02 19:03	11° х 01'25	0°32'52
avanina may al	5179 Jan 30 16:17 5179 Feb 03 11:45	0° \ 4° \ 21'53	20°24'21	desc. node max. Earth dist.	5179 Dec 07 10:12 5179 Dec 09 19:10	18° х 46'49 22° х 39'55	1.43314 AU
evening max el asc. node	5179 Feb 10 04:19	4 X 21 33 8° ¥ 53'50	20 24 21	max. Earth dist.	5179 Dec 09 19:10 5179 Dec 14 09:00	22 x ・3933	1.43314 AU
retrograde	5179 Feb 11 11:13	9° \ 02'43		evening rise	5179 Dec 17 06:21	4° ろ 32'06	
evening set	5179 Feb 15 08:15	7°) €35'53		Č	5180 Jan 03 07:38	0° ≈	
inferior conj	5179 Feb 20 16:59	1°) 29′17	2°57'13	evening max el	5180 Jan 17 09:13	17° ≈ 57'18	21°35'04
minimum elong	5179 Feb 20 14:43	1°) €37'00	2°56'43	retrograde	5180 Jan 26 08:48	23° ≈ 17′07	
min. Earth dist.	5179 Feb 21 09:44	0°) (32′13	0.67492 AU	asc. node	5180 Jan 28 01:21	23° ≈ 01'51	
	5179 Feb 21 19:16	30°R≈ 25°2 - 14/5°		evening set	5180 Jan 30 16:02	21°≈34'59	2024144
morning rise direct	5179 Feb 25 20:58 5179 Mar 03 12:50	25°≈14'58 22°≈43'20		inferior conj minimum elong	5180 Feb 05 00:07 5180 Feb 04 21:43	15°≈18'12 15°≈26'32	2°24'44 2°24'02
morning max el	5179 Mar 14 21:39	22 ≈ 43 20 29° ≈ 31'24	24°31'10	min. Earth dist.	5180 Feb 05 04:23	15 ≈20 32 15°≈03'23	0.68002 AU
	5179 Mar 15 08:51	0°) €		morning rise	5180 Feb 10 03:13	9° ≈ 06'10	
desc. node	5179 Mar 18 12:25	3°) €27'29		direct	5180 Feb 15 04:37	6° ≈ 54'47	
	5179 Apr 06 18:24	$0^{\circ}\Upsilon$		morning max el	5180 Feb 25 06:56	12° ≈ 53'54	23°01'52
morning set	5179 Apr 19 20:06	21° Y 31'40		desc. node	5180 Mar 04 09:26	22° ≈ 24'07	
max. Earth dist.	5179 Apr 23 11:15	28° Y ′00'32	1.37528 AU		5180 Mar 10 00:14	0° ∀	
	5179 Apr 24 13:24	0°8		morning set	5180 Mar 29 15:45 5180 Mar 30 22:00	0° Υ 2° Υ 05'12	
superior conj	5179 Apr 30 07:23	10° 8 50'35	-1°21'13	max. Earth dist.	5180 Apr 04 06:37	9° Υ 28'24	1.39728 AU
minimum elong	5179 Apr 30 11:49	11° 8 11'59		max. Earth dist.	310011p1 01 00.37	7 12021	1.57720710
evening rise	5179 May 08 22:46	27° 8 55'48		superior conj	5180 Apr 11 23:50	23° Y 13'20	-1°46'38
asc. node	5179 May 09 03:38	28° 8 19'59		minimum elong	5180 Apr 12 04:51	23° Y 36'25	1°46'08
	5179 May 09 23:49	0°П			5180 Apr 15 15:12	0° 8	
evening max el	5179 May 25 16:19	25° Ⅱ 06'34	19°13'54	evening rise	5180 Apr 21 15:18	11° 8 26'51	
retrograde evening set	5179 Jun 03 17:31 5179 Jun 05 17:03	29° Ⅲ 31'54 29° Ⅲ 20'06		asc. node	5180 Apr 25 00:38 5180 May 01 23:38	17° 8 52'55 0° Ⅱ	
inferior conj	5179 Jun 14 03:35	25° Ⅱ 10'27	0°05'57	evening max el	5180 May 07 19:13	0 H 7°H27′08	18°31'56
minimum elong	5179 Jun 14 03:50	25° I I10'02	0°05'51	retrograde	5180 May 15 11:56	11° I I15'15	10 3130
transit middle	5179 Jun 14 03:50	25° Ⅱ 10′02	0°05'51	evening set	5180 May 17 17:50	10° Ⅱ 56'52	
transit begin	5179 Jun 14 00:16	25° Ⅱ 16′00		inferior conj	5180 May 25 08:18	6° Ⅱ 27'53	1°40'35
transit end	5179 Jun 14 07:24	25° Ⅱ 04'04		minimum elong	5180 May 25 11:29		1°39'33
desc. node	5179 Jun 14 11:38	24° ∏ 56'58		min. Earth dist.	5180 May 28 17:42	3° Ⅱ 49'52	0.57971 AU
min. Earth dist. morning rise	5179 Jun 16 23:26 5179 Jun 22 11:32	23° Ⅱ 17'38 20° Ⅲ 22'48	0.56152 AU	desc. node morning rise	5180 May 31 08:39 5180 Jun 02 01:54	2° Ⅱ 02'39 1° Ⅱ 05'53	
morning rise direct	5179 Jun 22 11:32 5179 Jun 27 10:24	20° П 22′48 19° П 26′10		morning fise	5180 Jun 02 01:54 5180 Jun 05 00:53	1°Д05′53	
morning max el	5179 Jul 11 14:45	26° ∏ 40′22	25°25'37	direct	5180 Jun 07 22:41	29° 8 38'18	
<i>3 3</i> -	5179 Jul 14 19:28	0.00 0.00			5180 Jun 10 21:24	0°Ⅱ	
	5179 Aug 03 00:57	$0^{\circ}\Omega$		morning max el	5180 Jun 22 07:50	7° Ⅱ 16′56	26°48'05
asc. node	5179 Aug 05 02:56	4° Ω 11'07			5180 Jul 09 07:20	0°€	
morning set	5179 Aug 07 14:04	9° Ω 19'24		asc. node	5180 Jul 21 23:57	24°503'38	
				morning set	5180 Jul 22 00:01	24° © 04'03	

max. Earth dist.	5182 Jun 25 21:31	4° © 31'23	1.32377 AU		5183 May 31 14:22	0°Щ	
				morning set	5183 Jun 04 01:24	6° Ⅱ 39'31	
superior conj	5182 Jun 27 20:50	8° © 47'43	0°21'56	max. Earth dist.	5183 Jun 08 21:43	16° Ⅲ 28′20	1.33242 AU
minimum elong	5182 Jun 27 19:50	8° © 42'14	0°21'42				
evening rise	5182 Jul 04 18:17	23° © 46'31		superior conj	5183 Jun 12 02:17	23° I I11'30	-0°05'32
	5182 Jul 07 17:44	$0^{\circ}\Omega$		minimum elong	5183 Jun 12 02:34	23° Ⅱ 12'59	0°05'29
	5182 Jul 26 05:23	O° Mp		behind sun begin	5183 Jun 11 21:26	22° Ⅱ 45'39	
evening max el	5182 Jul 29 08:59	3° m 19′37	24°08'31	behind sun end	5183 Jun 12 07:42	23° Ⅱ 40′21	
desc. node	5182 Aug 01 01:58	5° ₯ 42'49		asc. node	5183 Jun 12 15:02	24° Ⅱ 19'28	
retrograde	5182 Aug 12 03:53	10° Mp 16'06			5183 Jun 15 06:30	0°€	
evening set	5182 Aug 16 20:52	9° ™ 26'57		evening rise	5183 Jun 19 05:46	8° 5 29'16	
min. Earth dist.	5182 Aug 22 19:37	6° Mp 30′19	0.56371 AU		5183 Jun 30 12:20	0 $^{\circ}$ Ω	
inferior conj	5182 Aug 25 07:05	4° Mp 58′10		evening max el	5183 Jul 10 22:32	13° Ω 40′39	22°30'53
minimum elong	5182 Aug 25 04:40	5° ™ 01'57	5°14'38	desc. node	5183 Jul 18 22:59	19° Ω 11'56	
morning rise	5182 Sep 02 14:58	0° Mp 58′58		retrograde	5183 Jul 24 00:48	20° Ω 11'21	
direct	5182 Sep 05 08:14	0° Mp39′38		evening set	5183 Jul 27 05:28	19° Ω 48'54	
morning max el	5182 Sep 15 04:34	5° Mp 15'16	19°46'06	min. Earth dist.	5183 Aug 04 05:51	16° Ω 18'54	0.55152 AU
asc. node	5182 Sep 21 17:16	13°Mp15'31		inferior conj	5183 Aug 05 08:59	15° Ω 40′22	
	5182 Oct 01 02:19	0∘ ত		minimum elong	5183 Aug 05 00:56	15° Ω 51'49	4°29'28
morning set	5182 Oct 02 22:10	3° Ω 39'46		morning rise	5183 Aug 13 22:20	11° Ω 50′22	
				direct	5183 Aug 17 00:42	11° Ω 28'27	
superior conj	5182 Oct 10 18:31		1°39'33	morning max el	5183 Aug 28 11:20	16° Ω 48'34	21°07'07
minimum elong	5182 Oct 10 20:08	19° Ω 39'10	1°39'28		5183 Sep 07 14:02	0° m)	
	5182 Oct 16 04:32	0°M		asc. node	5183 Sep 08 14:18	1° m)42'24	
max. Earth dist.	5182 Oct 16 16:46	0° ™ 57'19	1.37345 AU	morning set	5183 Sep 17 06:12	18° m 23'09	
evening rise	5182 Oct 20 11:08	7°M50'36			5183 Sep 22 19:30	0∘ ⊽	
desc. node	5182 Oct 28 01:17	20°M50'19					
	5182 Nov 02 20:09	0° ∡ 7		superior conj	5183 Sep 24 14:58	3° Ω 45'42	
evening max el	5182 Nov 25 03:59		25°27'39	minimum elong	5183 Sep 24 15:03	3° ≏ 46'07	1°43'29
	5182 Nov 26 05:54	0°る		max. Earth dist.	5183 Sep 29 02:16	12° ≏ 49'03	1.35471 AU
retrograde	5182 Dec 07 07:46	5°る58'04		evening rise	5183 Oct 03 05:43	20° △ 49'21	
evening set	5182 Dec 13 05:11	3°る31'14		1 1	5183 Oct 08 06:41	0°M	
. E 4 E 4	5182 Dec 16 13:27	30°₹ <i>₹</i> 7	0.67250 ATT	desc. node	5183 Oct 14 22:19	11°M11'40	
min. Earth dist.	5182 Dec 17 14:51	28° 🗷 40'33	0.67250 AU		5183 Oct 27 18:11	0° ∡7 12° √7 40/20	26920140
inferior conj	5182 Dec 18 20:02	27° ₹ 06'37	0°03'01	evening max el	5183 Nov 07 16:47 5183 Nov 20 14:10	12° × 40'28	26°29'49
minimum elong transit middle	5182 Dec 18 19:57	27° 尽 06'52 27° 尽 06'52	0°03'00 0°03'00	retrograde		19° ∡ 54'07 17° ∡ 17'42	
	5182 Dec 18 19:57 5182 Dec 18 17:12	27°×106'32	0 03 00	evening set min. Earth dist.	5183 Nov 27 00:33 5183 Dec 01 03:31	17 x ·1742 13° x ⁷ 02'12	0.66288 AU
transit begin transit end	5182 Dec 18 17.12 5182 Dec 18 22:42	27 x ·13 44 26° x ·158′01		inferior conj	5183 Dec 01 03.31 5183 Dec 02 20:01	13 x ·02 12 11° x ⁷ 00'09	
asc. node	5182 Dec 18 22:42 5182 Dec 18 16:29	20 x 3801 27° x 18'03		minimum elong	5183 Dec 02 20:01 5183 Dec 02 21:34	11 x 00 09 10° x 55'30	0°55'08
morning rise	5182 Dec 24 11:03	21° 🗷 11'31		asc. node	5183 Dec 02 21:34 5183 Dec 05 13:33	7° ₹ 53'03	0 33 00
direct	5182 Dec 27 11:03 5182 Dec 27 20:18	20°×705'29		morning rise	5183 Dec 08 19:15	5° × 15'10	
morning max el	5182 Dec 27 20:18 5183 Jan 03 22:08	24°× 032)	19°17'46	direct	5183 Dec 08 17:13 5183 Dec 11 18:28	4° ×7 25'36	
morning max cr	5183 Jan 08 23:30	0°る	17 17 40	morning max el	5183 Dec 18 09:28	8° ₹ 02'10	18°31'29
greatest brilliancy	5183 Jan 17 07:16	11° る 57'07	-0.7m	monning man vi	5184 Jan 02 21:20	0°ਰ	10 31 2)
desc. node	5183 Jan 24 00:32	22° る 12'59	0.7111	morning set	5184 Jan 07 16:55	7° る 39'28	
morning set	5183 Jan 27 18:30	28° る 00'36		desc. node	5184 Jan 10 21:34	12°る44'00	
	5183 Jan 29 01:18	0° ≈			5184 Jan 21 20:26	0° ≈	
max. Earth dist.	5183 Feb 10 04:18		1.44817 AU				
				superior conj	5184 Jan 23 15:37	2° ≈ 49'21	-1°21'05
superior conj	5183 Feb 13 11:40	24°≈10'47	-1°54'26	minimum elong	5184 Jan 23 06:31	2°≈13'40	1°20'03
minimum elong	5183 Feb 13 04:04	23° ≈ 40'36		max. Earth dist.	5184 Jan 23 22:35	3° ≈ 16'38	1.45326 AU
S	5183 Feb 17 03:02	0° ∀		evening rise	5184 Feb 08 11:32	27° ≈ 44'42	
evening rise	5183 Feb 27 20:44	17°) €32'49		C	5184 Feb 09 21:38	0° ∀	
Ü	5183 Mar 07 09:18	0 ° Υ		greatest brilliancy	5184 Feb 17 15:34	12° ¥ 15'50	-0.8m
asc. node	5183 Mar 16 15:45	13° Ƴ 54'42		e ,	5184 Mar 01 07:37	0° Υ	
evening max el	5183 Mar 19 05:46	16° Ƴ 51'30	18°24'13	evening max el	5184 Mar 01 16:00	0° Υ 21'42	18°58'22
retrograde	5183 Mar 25 16:56	20° Y ′21′40		asc. node	5184 Mar 02 12:48	1° Υ 12'16	
evening set	5183 Mar 28 18:17	19° Y 30'20		retrograde	5184 Mar 08 11:39	4° Υ 11'37	
inferior conj	5183 Apr 03 14:54	14° Y ′02'32	3°32'24	evening set	5184 Mar 11 19:51	3° Y '07'01	
minimum elong	5183 Apr 03 15:12		3°32'24	-	5184 Mar 15 05:48	30° ₹	
min. Earth dist.	5183 Apr 05 21:39	11° Y ′24'10	0.64261 AU	inferior conj	5184 Mar 17 09:46	27° ¥ 22'25	3°28'34
morning rise	5183 Apr 09 11:17	7° Y 51'25		minimum elong	5184 Mar 17 08:42	27° ¥ 25'45	3°28'30
direct	5183 Apr 16 06:20	5° Y ′04'36		min. Earth dist.	5184 Mar 19 00:54	25° ¥ 19′21	0.65854 AU
desc. node	5183 Apr 21 23:44	6° Ƴ 43'11		morning rise	5184 Mar 22 21:10	21° ₩ 08'15	
morning max el	5183 Apr 29 22:16	13° Y 01'59	27°29'36	direct	5184 Mar 29 08:44	18° ¥ 18'45	
	5183 May 13 13:02	9° 8		desc. node	5184 Apr 07 20:47	22°) 46′38	

page 46

	51044 11 00 12	250)/50155	2 (02 51 5 5		510534 06 15 05	401/ 44150	
morning max el	5184 Apr 11 08:12	25° ¥ 59'57	26°35'57	morning rise	5185 Mar 06 17:07	4°) 41′53	
	5184 Apr 15 00:39	0 ° $\mathbf{\Lambda}$		direct	5185 Mar 12 16:51	2° ℋ 01'28	
	5184 May 06 02:19	9° 8		morning max el	5185 Mar 24 17:27	9° 升 12′24	25°20'32
morning set	5184 May 17 07:31	19° 8 50'43		desc. node	5185 Mar 25 17:50	10° 升 15′27	
max. Earth dist.	5184 May 21 11:23	27° 8 54'28	1.34576 AU		5185 Apr 10 02:39	$0^{\circ}\Upsilon$	
	5184 May 22 12:35	0° I I			5185 Apr 28 16:15	0°8	
	0101111ay 22 12.00	· -		morning set	5185 Apr 29 21:54	2° 8 12'55	
	5194 M 26 01-20	70T12110	0024154	•	-	8° 8 59'40	1 26254 ATT
superior conj	5184 May 26 01:30	7° Ⅱ 12'19		max. Earth dist.	5185 May 03 14:16	8 039 40	1.36354 AU
minimum elong	5184 May 26 03:24	7° Ⅱ 22'06	0°34'32				
asc. node	5184 May 29 12:05	14° Ⅱ 22'45		superior conj	5185 May 09 15:42	20° 8 42'33	
evening rise	5184 Jun 02 15:06	23° Ⅱ 01'10		minimum elong	5185 May 09 19:18	21° 8 00'24	1°04'06
	5184 Jun 06 01:17	0 \circ \odot			5185 May 14 06:24	Π $^{\circ}0$	
evening max el	5184 Jun 21 20:09	24°©19'59	21°00'42	asc. node	5185 May 16 09:06	4° Ⅱ 18′04	
* · · · · · · · · · · · · · · · · · · ·	5184 Jul 02 00:27	0°N		evening rise	5185 May 17 20:06	7° Ⅱ 15'40	
	5184 Jul 03 13:25	0° Ω 05'49		evening rise	5185 May 30 12:56	0°95	
retrograde					•		10047104
desc. node	5184 Jul 04 19:59	0° Ω 01'56		evening max el	5185 Jun 04 05:58	5° © 37'33	19°47'04
	5184 Jul 05 02:57	30° ₹ 5		retrograde	5185 Jun 14 06:00	10° © 31'02	
evening set	5184 Jul 05 18:06	29° © 54'28		evening set	5185 Jun 16 04:01	10° © 21'03	
inferior conj	5184 Jul 15 02:08	25° © 57'03	-2°58'06	desc. node	5185 Jun 21 17:01	8°\$316'36	
minimum elong	5184 Jul 14 18:15	26° © 08'11	2°55'30	inferior conj	5185 Jun 25 01:01	6° © 19′00	-0°59'52
min. Earth dist.	5184 Jul 15 16:29	25°536'49	0.54796 AU	minimum elong	5185 Jun 24 22:16	6°923'15	0°58'50
			0.54790 AU	Č			
morning rise	5184 Jul 23 18:32	21° © 58'17		min. Earth dist.	5185 Jun 27 05:01	4° © 58'57	0.55403 AU
direct	5184 Jul 27 09:52	21° © 29'49		morning rise	5185 Jul 03 14:26	1° © 52'20	
morning max el	5184 Aug 09 07:11	27° © 38'49	22°44'56	direct	5185 Jul 08 00:16	1° © 09'29	
	5184 Aug 11 15:11	$0^{\circ}\Omega$		morning max el	5185 Jul 21 21:16	8° © 02'42	24°29'03
asc. node	5184 Aug 25 11:21	20° Ω 44'15			5185 Aug 06 22:32	$0^{\circ}\Omega$	
	5184 Aug 30 03:40	0° m)		asc. node	5185 Aug 12 08:23	10° Ω 11'22	
morning sot	-	3° Mp 14'27			-	18° Ω 07'29	
morning set	5184 Aug 31 16:59	3 HJ 142/		morning set	5185 Aug 16 04:44		
					5185 Aug 21 16:26	0°Щ	
superior conj	5184 Sep 07 18:48	18°Mp21'46	1°40'29				
minimum elong	5184 Sep 07 17:39	18° m) 15'38	1°40'25	superior conj	5185 Aug 23 03:19	3° m 10'15	1°31'34
max. Earth dist.	5184 Sep 10 20:22	24° m 49'28	1.33954 AU	minimum elong	5185 Aug 23 01:22	2° m 59'37	1°31'22
	5184 Sep 13 08:52	0∘ ⊽		max. Earth dist.	5185 Aug 24 22:53	7° Mp 06'30	1.32850 AU
evening rise	5184 Sep 15 14:48	4° £ 28'58		evening rise	5185 Aug 30 10:27	18° m/37'58	
evening rise	•			evening rise			
	5184 Sep 30 00:32	0°M			5185 Sep 05 06:17	0∘ ⊽	
desc. node	5184 Sep 30 19:19	1°ML13'44		desc. node	5185 Sep 17 16:18	20° ≏ 47'28	
evening max el	5184 Oct 20 05:34	26° M ₁2'45	27°11'55		5185 Sep 24 08:05	0° M	
	5184 Oct 24 17:22	0° ∡ ¹		evening max el	5185 Oct 02 16:30	9° ™ 21'21	27°27'16
retrograde	5184 Nov 02 14:39	3° ₹ 30'30		retrograde	5185 Oct 16 08:43	16°M37'45	
evening set	5184 Nov 09 11:57	0° ≯ 50'38		evening set	5185 Oct 23 12:27	14°M03'25	
evening set		30°RML		•			0.62241.411
	5184 Nov 10 12:22			min. Earth dist.	5185 Oct 27 04:33		0.63341 AU
min. Earth dist.	5184 Nov 13 08:47		0.64982 AU	inferior conj	5185 Oct 29 20:51	8°M15'16	
inferior conj	5184 Nov 15 13:11	24°M45'25	-1°58'13	minimum elong	5185 Oct 30 02:06	8°M02'12	2°59'54
minimum elong	5184 Nov 15 16:37	24°M35'56	1°56'49	morning rise	5185 Nov 05 17:17	3°M00'10	
asc. node	5184 Nov 21 10:35	19°M28'26		direct	5185 Nov 08 03:21	2°M32'13	
morning rise	5184 Nov 21 22:23	19°ML13'38		asc. node	5185 Nov 08 07:37	2°M32'22	
direct	5184 Nov 24 13:48	18°MJ36'41		morning max el	5185 Nov 14 17:53	5°M57'21	17040'46
			10001157	morning max er			1/4940
morning max el	5184 Dec 01 01:01	22°ML03'07	18°01'56	_	5185 Nov 30 10:49	0° ∡ 7	
	5184 Dec 07 06:16	0°⊀		morning set	5185 Dec 01 02:35	1° ≯ 08'45	
morning set	5184 Dec 18 21:01	18° ∡ ¹47'26					
	5184 Dec 25 16:20	ರ°ರ		superior conj	5185 Dec 13 05:14	21° ∡ ¹47'51	0°10'05
desc. node	5184 Dec 27 18:37	3° ♂ 24'13		minimum elong	5185 Dec 13 06:17	21° ₹ 52'11	0°09'56
				behind sun begin	5185 Dec 12 22:45	21° ₹ 21'00	
	5105 I 01 02 40	11074620	0025145	Č			
superior conj	5185 Jan 01 23:48	11° ろ 46'30		behind sun end	5185 Dec 13 13:50	22° ₹ 23'20	
minimum elong	5185 Jan 01 19:25	11° る 29'03	0°35'08	desc. node	5185 Dec 14 15:37	24° ₹ 09'24	
max. Earth dist.	5185 Jan 05 18:22	17° る 44'56	1.45089 AU		5185 Dec 18 05:54	0°ප	
	5185 Jan 13 14:33	0° ≈		max. Earth dist.	5185 Dec 19 12:06	2° る 01'14	1.44136 AU
evening rise	5185 Jan 18 06:24	7°≈12'46		evening rise	5185 Dec 28 16:26	16° る 25'29	
greatest brilliancy	5185 Feb 01 01:08	28°≈12'40	-0.7m	<i>C</i> .	5186 Jan 06 15:09	0°≈	
51 carest of financy		0° \	V. / 111	evening may al		0 ∞ 27°≈28'48	20°53'11
	5185 Feb 02 06:15		10040140	evening max el	5186 Jan 26 22:23		20 33 11
evening max el	5185 Feb 12 21:56	13° ¥ 54'49	19°48'48		5186 Jan 29 16:35	0° ∀	
asc. node	5185 Feb 17 09:50	17° ∺ 27'39		retrograde	5186 Feb 04 07:36	2°) €26'03	
retrograde	5185 Feb 20 09:19	18° ₩ 14'38		asc. node	5186 Feb 04 06:51	2° ∺ 26′03	
evening set	5185 Feb 24 01:21	16° ¥ 55'57		evening set	5186 Feb 08 08:49	0° ¥ 52'36	
inferior conj	5185 Mar 01 11:18	10°) ₹56'33	3°11'45	C	5186 Feb 09 09:05	30° R ≈	
	5185 Mar 01 09:21	11° X 03'06	3°11'25	inferior coni			2°44'31
minimum elong				inferior conj	5186 Feb 13 17:01	24°≈41'02	
min. Earth dist.	5185 Mar 02 11:44	9° ∺ 35'08	0.67020 AU	minimum elong	5186 Feb 13 14:38	24° ≈ 49'14	2°43'54

i. E. di di d	5106 E-L 14 04.12	24902129	0.67754.411	4:	5107 E-L 07 22.10	091054	
min. Earth dist.	5186 Feb 14 04:13 5186 Feb 18 20:18	24°≈02'28 18°≈27'34	0.67754 AU	direct	5187 Feb 07 23:18 5187 Feb 17 12:56	0°≈19'54 5°≈58'14	22924120
morning rise direct	5186 Feb 24 05:58	16 ≈27 34 16°≈04'19		morning max el desc. node	5187 Feb 17 12.36 5187 Feb 27 11:53	3 ≈38 14 17°≈58'42	22 24 29
morning max el	5186 Mar 07 02:14	16 ≈04 19 22°≈32'26	23°53'27	desc. node	5187 Feb 27 11.33 5187 Mar 08 00:18	17 ≈3842 0°)	
desc. node	5186 Mar 12 14:52	22 ≈32 20 28°≈45'25	23 33 21	morning set	5187 Mar 23 04:48	23° ¥ 30'40	
desc. Hode	5186 Mar 13 15:01	20 ≈ 43 23 0° H		morning set	5187 Mar 27 02:59	23 χ3040 0° Υ	
	5186 Apr 03 10:37	0° Υ		max. Earth dist.	5187 Mar 28 06:43		1.40645 AU
morning set	5186 Apr 11 14:57	13° Υ 31'24		max. Earth dist.	3187 Wai 28 00.43	1 1 30 40	1.40043 AU
max. Earth dist.	5186 Apr 15 10:23	20° Y $10'17$	1.38451 AU	superior conj	5187 Apr 05 01:54	15° Ƴ 32'50	-1°55'21
max. Lartii dist.	5186 Apr 20 19:58	0°8	1.30431 AC	minimum elong	5187 Apr 05 06:36	15°Υ53'57	
	3100 Apr 20 17.30	٥ ٠		minimum ciong	5187 Apr 12 22:13	0° 8	1 5457
superior conj	5186 Apr 22 17:21	3° 8 33'17	-1°32'39	evening rise	5187 Apr 15 05:53	4° 8 21'34	
minimum elong	5186 Apr 22 22:12	3° 8 56'17		asc. node	5187 Apr 20 03:09	13° 8 26'10	
evening rise	5186 May 01 18:09	21° 8 05'41	1 32 02	ase. node	5187 May 01 04:43	0°II	
asc. node	5186 May 03 06:07	24° 8 01'09		evening max el	5187 May 01 09:39	0° П 12'13	18°20'18
use. Houe	5186 May 06 09:16	0°II		retrograde	5187 May 08 16:20	3° П 49'38	10 20 10
evening max el	5186 May 18 03:30	17° I I37'27	18°53'30	evening set	5187 May 11 01:06	3° П 27'38	
retrograde	5186 May 26 13:48	21° I I45'30			5187 May 16 21:34	30°R ႘	
evening set	5186 May 28 15:34	21° I I31'27		inferior conj	5187 May 18 07:35	28° 8 50'10	2°11'14
inferior conj	5186 Jun 05 17:32	17° I I13'53	0°49'42	minimum elong	5187 May 18 11:04	28° 8 42'51	2°10'14
minimum elong	5186 Jun 05 19:26	17° Ⅱ 10′30	0°49'00	min. Earth dist.	5187 May 21 18:05	25° 8 58'54	0.58865 AU
desc. node	5186 Jun 08 14:02	15° Ⅱ 11'48		morning rise	5187 May 25 18:00	23° 8 15'38	
min. Earth dist.	5186 Jun 08 21:06	14° ∏ 59'40	0.56856 AU	desc. node	5187 May 26 11:05	22° 8 53'38	
morning rise	5186 Jun 13 19:58	12° Ⅱ 10′38	0.00000110	direct	5187 May 31 22:30	21° 8 33'07	
direct	5186 Jun 19 04:15	11° I I01'59		morning max el	5187 Jun 15 07:53	29° 8 19'59	27°14'01
morning max el	5186 Jul 03 12:04	18° ∏ 28'22	26°03'51	morning must vi	5187 Jun 15 23:56	0°II	2, 1.01
morning max or	5186 Jul 13 03:41	0°95	20 03 31		5187 Jul 07 00:13	0. 0	
asc. node	5186 Jul 30 05:25	29° 9 56'45		morning set	5187 Jul 16 00:38	17° © 37'53	
use. Houe	5186 Jul 30 06:02	0°Ω		asc. node	5187 Jul 17 02:26	19° © 54'05	
morning set	5186 Jul 31 15:50	2° Ω 57'14		use. House	5187 Jul 21 18:03	0°N	
merming sec	2100 041 21 12.20	2 000711			210,00	° 00	
superior conj	5186 Aug 07 14:26	18° Ω 04'31	1°17'31	superior conj	5187 Jul 23 02:16	2° Ω 57'49	0°58'58
minimum elong	5186 Aug 07 12:08	17° Ω 51'52	1°17'11	minimum elong	5187 Jul 23 00:06	2° Ω 45'52	
max. Earth dist.	5186 Aug 08 07:23	19° Ω 37'52	1.32174 AU	max. Earth dist.	5187 Jul 22 18:30	2° Ω 14'54	1.31921 AU
	5186 Aug 13 02:02	0° m		evening rise	5187 Jul 29 21:47	17° Ω 49'35	
evening rise	5186 Aug 14 13:38	3°m,07'33		Ü	5187 Aug 04 21:55	0° m/y	
Č	5186 Aug 29 01:34	0∘ <u>⊽</u>		desc. node	5187 Aug 22 10:19	27° mp 38'45	
desc. node	5186 Sep 04 13:18	9° £ 41'15			5187 Aug 24 10:37	0° ٽ	
evening max el	5186 Sep 14 23:15	21° ≏ 53'46	27°10'48	evening max el	5187 Aug 27 23:35	3° ≏ 40'21	26°21'01
retrograde	5186 Sep 28 19:52	29° ഫ 06'35		retrograde	5187 Sep 10 22:38	10° ≏ 48'45	
evening set	5186 Oct 05 22:21	26° ≏ 49'38		evening set	5187 Sep 17 12:54	9° ≏ 01'41	
min. Earth dist.	5186 Oct 09 13:47	24° ഫ 05'20	0.61419 AU	min. Earth dist.	5187 Sep 21 12:56	6° £ 26'48	0.59347 AU
inferior conj	5186 Oct 12 15:54	21° ≏ 22'13	-4°02'02	inferior conj	5187 Sep 24 18:52	3° ≏ 57'14	-4°51'21
minimum elong	5186 Oct 12 22:12	21° ≏ 08'19	4°00'19	minimum elong	5187 Sep 25 00:15	3° ≏ 46'50	4°50'27
morning rise	5186 Oct 20 00:00	16° ≏ 27'01		_	5187 Sep 30 21:34	30°₽,₩	
direct	5186 Oct 22 07:34	16° ≏ 04'46		morning rise	5187 Oct 02 13:48	29° m 24'15	
asc. node	5186 Oct 26 04:40	17° ≏ 09'46		direct	5187 Oct 04 22:21	29° Mp 04'51	
morning max el	5186 Oct 29 08:55	19° ≙ 37'12	17°55'54		5187 Oct 08 18:59	0∘ ⊽	
	5186 Nov 06 00:09	0°M		morning max el	5187 Oct 12 18:45	2° ჲ 53'38	18°21'50
morning set	5186 Nov 14 03:12	14°M24'05		asc. node	5187 Oct 13 01:42	3° ≙ 10'41	
	5186 Nov 22 18:36	0° ∡ ¹		morning set	5187 Oct 28 17:22	28° ≙ 18′03	
					5187 Oct 29 14:42	0° M	
superior conj	5186 Nov 24 13:12	3° 渘 06'31	0°48'18				
minimum elong	5186 Nov 24 16:52	3° ҂ 22'30	0°47'49	superior conj	5187 Nov 06 20:44	15°M33'45	1°16'05
desc. node	5186 Dec 01 12:36	14° ∡ 756′18		minimum elong	5187 Nov 07 00:28	15° M 50'54	1°15'41
max. Earth dist.	5186 Dec 02 01:10	15° ∡ ¹48'11	1.42591 AU	max. Earth dist.	5187 Nov 14 09:19	28°M56'05	1.40646 AU
evening rise	5186 Dec 08 09:33	26° ₹ '02'08			5187 Nov 15 00:15	0° ∡ 7	
	5186 Dec 10 22:18	0°రె		desc. node	5187 Nov 18 09:37	5° ∡ 1'53	
	5186 Dec 31 12:27	0° ≈		evening rise	5187 Nov 18 22:03	6° х ³33'14	
evening max el	5187 Jan 09 17:28	11° ≈ 03'57	22°07'47		5187 Dec 04 01:40	5°0	
retrograde	5187 Jan 19 04:30	16° ≈ 41'35		evening max el	5187 Dec 23 08:38	24° る 42'59	23°27'25
asc. node	5187 Jan 22 03:54	15° ≈ 54'46			5187 Dec 30 04:06	0° ≈	
evening set	5187 Jan 23 16:30	14° ≈ 52'46		retrograde	5188 Jan 02 22:36	0° ≈ 58'15	
inferior conj	5187 Jan 29 00:46	8° ≈ 32'23	2°08'30		5188 Jan 06 09:38	30°Rる	
minimum elong	5187 Jan 28 22:27	8° ≈ 40′27	2°07'45	evening set	5188 Jan 07 22:52	28° る 53'53	
1 75 4 11 4							
min. Earth dist.	5187 Jan 29 00:03 5187 Feb 03 04:15	8°≈34'55 2°≈21'36	0.68088 AU	asc. node	5188 Jan 09 00:56 5188 Jan 13 08:44	27°る53'13 22°る28'32	

		_				_	
minimum elong	5188 Jan 13 06:55	22° る 34'43	1°24'13	morning rise	5189 Jan 02 02:15	0° る 26'26	
min. Earth dist.	5188 Jan 12 20:52	23° る 09'14	0.68050 AU		5189 Jan 02 18:47	30°Ŗ ⋌ 7	
morning rise	5188 Jan 18 14:55	16° る 22'15		direct	5189 Jan 05 18:19	29° ₰ 09'06	
direct	5188 Jan 22 19:53	14° る 43'18			5189 Jan 08 21:47	0°る	
morning max el	5188 Jan 31 05:14	19° る 34'02	21°02'01	morning max el	5189 Jan 13 05:24	3° る 21'39	19°51'35
	5188 Feb 08 20:20	0° ≈		desc. node	5189 Jan 31 05:56	27° る 51'08	
desc. node	5188 Feb 14 08:54	7° ≈ 43'36			5189 Feb 01 16:01	0° ≈	
	5188 Feb 29 04:48	0° ∀		morning set	5189 Feb 08 11:13	10° ≈ 24′06	
morning set	5188 Mar 01 14:59	2° 升 13′28		max. Earth dist.	5189 Feb 19 20:20	28° ≈ 12'47	1.44210 AU
max. Earth dist.	5188 Mar 09 09:33	14°) 38′50	1.42655 AU		5189 Feb 20 23:13	0° ∀	
superior conj	5188 Mar 16 12:29	26°) 30′39	-2°08'01	superior conj	5189 Feb 24 21:32	6° ¥ 19'44	-2°05'01
minimum elong	5188 Mar 16 14:15	26°) €38'12		minimum elong	5189 Feb 24 17:21	6°) €02'46	2°04'51
g	5188 Mar 18 13:24	0°Υ	2 0, 0,	evening rise	5189 Mar 10 05:57	28°) 35'37	2 0.01
evening rise	5188 Mar 28 03:19	16°Υ54'33		evening rise	5189 Mar 11 01:44	0°Υ	
evening rise	5188 Apr 04 13:03	0° 8		asc. node	5189 Mar 23 21:15	20°Υ55'53	
asc. node	5188 Apr 06 00:12	2° 8 27'04		evening max el	5189 Mar 28 09:44	26° Y 29'27	18°12'35
	•	13° 8 12'39	18°06'53	•		29° Y 53'19	16 12 33
evening max el	5188 Apr 13 20:51	15 6 1239	18 00 33	retrograde	5189 Apr 03 19:33	29 γ 33 19 29° γ 09'01	
retrograde	5188 Apr 20 11:44	_		evening set	5189 Apr 06 17:23		202711.4
evening set	5188 Apr 23 03:18	16° 8 03'18	2002105	inferior conj	5189 Apr 12 19:16	23° Y 51'22	3°27'14
inferior conj	5188 Apr 29 17:28	11° 8 05'11	3°02'05	minimum elong	5189 Apr 12 20:30	23° Y 47'59	3°27'09
minimum elong	5188 Apr 29 20:16	10° 8 58'24	3°01'34	min. Earth dist.	5189 Apr 15 10:40	20° Y ′58'42	0.63175 AU
min. Earth dist.	5188 May 02 21:56	8° 8 01'27	0.61074 AU	morning rise	5189 Apr 18 22:28	17° Y ′44'10	
morning rise	5188 May 06 11:10	5° 8 09'51		direct	5189 Apr 25 18:58	15° Y ′05'30	
desc. node	5188 May 12 08:08	2° 8 56'42		desc. node	5189 Apr 29 05:10	15° Ƴ 40'43	
direct	5188 May 13 04:15	2° 8 54'38		morning max el	5189 May 09 17:23	23° Y 05'09	27°47'10
morning max el	5188 May 27 10:02	10° 8 51'50	27°49'26		5189 May 15 20:41	0°B	
	5188 Jun 11 08:39	$\Pi^{\circ}0$			5189 Jun 04 14:56	$\Pi^{\circ}0$	
	5188 Jun 28 05:05	0 \circ \odot		morning set	5189 Jun 13 03:37	16° Ⅲ 08′21	
morning set	5188 Jun 29 05:18	2° 5 03'49		max. Earth dist.	5189 Jun 18 09:48	27° Ⅱ 00'56	1.32691 AU
asc. node	5188 Jul 02 23:28	9° © 58'43		asc. node	5189 Jun 19 20:31	0°906'26	
max. Earth dist.	5188 Jul 05 04:36	14°9346'35	1.32091 AU		5189 Jun 19 19:19	0°ಅ	
superior conj	5188 Jul 06 13:05	17° © 44'29	0°36'29	superior conj	5189 Jun 20 21:04	2° © 18'41	0°10'38
minimum elong	5188 Jul 06 11:31	17° © 35'54		minimum elong	5189 Jun 20 20:33	2° © 15'55	0°10'30
	5188 Jul 12 03:27	$0^{\circ}\Omega$		behind sun begin	5189 Jun 20 16:34	1°954'20	
evening rise	5188 Jul 13 08:45	2° Ω 37'15		behind sun end	5189 Jun 21 00:33	2° © 37'32	
e vennig 1150	5188 Jul 28 01:29	0° m)		evening rise	5189 Jun 27 20:37	17° © 24'12	
desc. node	5188 Aug 08 07:22	14° Mp 16'59		evening rise	5189 Jul 04 01:30	0°Ω	
evening max el	5188 Aug 08 16:29	14° Mp 39'02	25002110	evening max el	5189 Jul 21 05:02	25°Ω05'10	22026155
retrograde	5188 Aug 22 14:38	21° Mp 41'11	23 02 19	desc. node	5189 Jul 26 04:24	29° Ω 05'59	23 20 33
-	C	-		desc. node			
evening set	5188 Aug 28 03:34	20° Mp 31'27	0.57262.411	. 1	5189 Jul 27 17:22	0° ™	
min. Earth dist.	5188 Sep 02 04:01	17° Mp 47'51		retrograde	5189 Aug 03 18:20	1° Mp 52'45	
inferior conj	5188 Sep 05 02:32	15° m 50'24		evening set	5189 Aug 07 19:46	1° To 16'40	
minimum elong	5188 Sep 05 03:47	15° m 48'18	5°1/'04		5189 Aug 11 02:59	30°RΩ	
morning rise	5188 Sep 13 06:19	11° m 39'52		min. Earth dist.	5189 Aug 14 14:36		0.55768 AU
direct	5188 Sep 15 19:41	11° m 20'54		inferior conj	5189 Aug 16 14:13	26° Ω 57'16	
morning max el	5188 Sep 24 19:53	15° Mp 36'06	19°09'00	minimum elong	5189 Aug 16 09:00	27° Ω 05'01	5°02'08
asc. node	5188 Sep 28 22:45	20° m 19'37		morning rise	5189 Aug 25 00:39	23° Ω 04′02	
	5188 Oct 05 01:47	0₀ ⊽		direct	5189 Aug 27 21:44	22° Ω 43'46	
morning set	5188 Oct 11 16:48	12° ≏ 38'00		morning max el	5189 Sep 07 09:43	27° Ω 36'37	20°18'04
					5189 Sep 09 17:22	0° m)	
superior conj	5188 Oct 19 22:22	28° ≙ 53'37	1°33'38	asc. node	5189 Sep 15 19:47	8° Mp 22'08	
minimum elong	5188 Oct 20 00:52	29° ≏ 05'44	1°33'26	morning set	5189 Sep 25 22:25	27° m 15'27	
	5188 Oct 20 12:08	0° M.			5189 Sep 27 06:31	0∘ ত	
max. Earth dist.	5188 Oct 26 14:31	11°M23'23	1.38538 AU				
evening rise	5188 Oct 30 09:29	18° ™ 06'30		superior conj	5189 Oct 03 13:10	12° ≙ 52'15	1°42'08
desc. node	5188 Nov 04 06:38	26°M21'51		minimum elong	5189 Oct 03 14:06	12° ≏ 56'59	1°42'06
	5188 Nov 06 12:14	0° ∡ ″		max. Earth dist.	5189 Oct 08 21:05	23° ჲ 22'35	1.36517 AU
	5188 Nov 27 09:54	0°రె			5189 Oct 12 09:46	0° M.	
evening max el	5188 Dec 04 21:45	8° る 25'45	24°45'50	evening rise	5189 Oct 12 17:52	0° ™ 37'06	
retrograde	5188 Dec 16 12:38	15° る 11'27		desc. node	5189 Oct 22 03:40	16°M51'49	
evening set	5188 Dec 22 02:20	12° る 52'13			5189 Oct 30 16:11	0° ∡ 7	
asc. node	5188 Dec 25 21:59	8° る 41'11		evening max el	5189 Nov 17 10:20	22° ✓ 09'37	25°55'56
min. Earth dist.	5188 Dec 26 16:16	7° る 41'41	0.67651 AU	retrograde	5189 Nov 29 21:59	29°×716'03	
inferior conj	5188 Dec 27 15:04	6°පි26'12	0°34'37	evening set	5189 Dec 06 01:13	26° х 10 03	
·	J100 DCC 21 13.04			=			
minimum elong	5188 Dec 27 14:14	6° る 28'58	0°34'18	min. Earth dist.	5189 Dec 10 07:56	22° ∡ °08'51	0.66893 AU

inferior conj	5189 Dec 11 17:56	20° ∡ ¹22'19	-0°21'24	inferior conj	5190 Nov 25 15:18	4° ∡ 12'55	-1°21'58
minimum elong	5189 Dec 11 18:30	20° ∡ ¹20'33	0°21'08	minimum elong	5190 Nov 25 17:37	4° ₰ 06'10	1°20'59
asc. node	5189 Dec 12 19:02	19° √ 04'29		asc. node	5190 Nov 29 16:03	29°M59'53	
morning rise	5189 Dec 17 12:15	14° ∡ ³31'26			5190 Nov 29 16:00	30°RM	
direct	5189 Dec 20 17:02	13° × ³ 32'51		morning rise	5190 Dec 01 18:37	28°M33'27	
			1005(104	•			
morning max el	5189 Dec 27 13:14	17° √ 19'11	18°56'04	direct	5190 Dec 04 14:08	27°M49'52	
	5190 Jan 06 06:40	0°ಕ			5190 Dec 09 15:06	0°⊀	
desc. node	5190 Jan 18 02:57	18° る 15'07		morning max el	5190 Dec 11 02:47	1° ≯ ¹21'02	18°16'49
morning set	5190 Jan 18 18:36	19° ට 16'12		morning set	5190 Dec 30 05:39	29° ⋌ ³33'34	
	5190 Jan 25 15:23	0° ≈			5190 Dec 30 12:11	0°る	
max. Earth dist.	5190 Feb 02 12:54	12° ≈ 22'04	1.45127 AU	desc. node	5191 Jan 04 23:59	8° ප 50'41	
superior conj	5190 Feb 04 08:15	15° ≈ 12'32	-1°42'22	superior conj	5191 Jan 14 11:28	23° る 52'35	-1°02'37
				1		23° る 22'45	
minimum elong	5190 Feb 03 23:07	14°≈36'36	1-41-33	minimum elong	5191 Jan 14 03:52		
	5190 Feb 13 15:35	0° ∺		max. Earth dist.	5191 Jan 16 07:56	26° る 47'09	1.45311 AU
evening rise	5190 Feb 19 10:10	9° ∺ 19'49			5191 Jan 18 09:10	0° ≈	
	5190 Mar 04 07:48	0 ° $\mathbf{\gamma}$		evening rise	5191 Jan 30 15:40	19° ≈ 10′54	
asc. node	5190 Mar 10 18:17	8° Ƴ 42'45			5191 Feb 06 13:52	0° ∀	
evening max el	5190 Mar 11 21:32	9° Ƴ 55'46	18°36'38	greatest brilliancy	5191 Feb 10 23:46	6°) 48′55	-0.7m
retrograde	5190 Mar 18 11:24	13° Ƴ 33'15		evening max el	5191 Feb 23 06:03	23° ¥ 27'32	19°17'58
evening set	5190 Mar 21 15:33	12° Ƴ 36'19		asc. node	5191 Feb 25 15:19	25°) €35'56	
inferior conj	5190 Mar 27 08:55	7° Υ 00'52	3°32'36		5191 Mar 02 07:47	27° \ 29'32	
,				retrograde			
minimum elong	5190 Mar 27 08:35	7° Y 01'51	3°32'36	evening set	5191 Mar 05 19:03	26° ∺ 19'12	
min. Earth dist.	5190 Mar 29 08:53	4° Ƴ 36′29	0.64981 AU	inferior conj	5191 Mar 11 06:58	20° ∺ 27'59	
morning rise	5190 Apr 02 01:01	0° Ƴ 47'53		minimum elong	5191 Mar 11 05:28	20°) 32′51	3°22'42
	5190 Apr 03 01:16	30° ₹ ₩		min. Earth dist.	5191 Mar 12 15:44	18°) 42′00	0.66396 AU
direct	5190 Apr 08 17:22	27° ¥ 58'37		morning rise	5191 Mar 16 15:34	14°) 13′04	
	5190 Apr 15 00:27	$0^{\circ}\mathbf{\Upsilon}$		direct	5191 Mar 22 22:24	11°) 26′04	
desc. node	5190 Apr 16 02:12	0° Υ 41'02		desc. node	5191 Apr 02 23:13	17°) 24'26	
	*	5° Υ 50'59	27910112		-	18°) 57'09	26905150
morning max el	5190 Apr 22 03:21		2/-1013	morning max el	5191 Apr 04 13:15		26°05'59
	5190 May 10 14:26	0° 8			5191 Apr 13 22:01	0° Υ	
morning set	5190 May 27 16:39	29° 8 41'53			5191 May 03 15:28	9° 8	
	5190 May 27 20:23	Π $\circ 0$		morning set	5191 May 10 16:41	12° 8 34'12	
max. Earth dist.	5190 Jun 01 06:02	8° Ⅱ 45'55	1.33748 AU	max. Earth dist.	5191 May 14 14:45	20° 8 00'12	1.35276 AU
superior conj	5190 Jun 05 00:06	16° Ⅱ 33'09	-0°17'48	superior conj	5191 May 19 19:50	0° Д 21'46	-0°47'37
minimum elong	5190 Jun 05 01:02	16° Ⅱ 38′05	0°17'38	minimum elong	5191 May 19 22:27	0° Д 35'08	0°47'07
asc. node	5190 Jun 06 17:32	20° I 12'17	0 17 50	minimum ciong	5191 May 19 15:33	0°II	0 17 07
asc. Houe				1	•		
	5190 Jun 11 08:03	0°9		asc. node	5191 May 24 14:34	10° Ⅱ 12'40	
evening rise	5190 Jun 12 07:23	2°503'00		evening rise	5191 May 27 15:08	16° ∏ 28′03	
	5190 Jun 28 02:06	$0^{\circ}\Omega$			5191 Jun 03 12:38	0 \circ \odot	
evening max el	5190 Jul 02 20:57	5° Ω 29'36	21°50'56	evening max el	5191 Jun 14 23:31	16° © 23'34	20°27'06
desc. node	5190 Jul 13 01:26	11° Ω 30′24		retrograde	5191 Jun 25 23:55	21° © 47'18	
retrograde	5190 Jul 15 11:07	11° Ω 43'58		evening set	5191 Jun 27 23:34	21° © 37'32	
evening set	5190 Jul 18 03:25	11° Ω 27'50		desc. node	5191 Jun 29 22:26	21°©10'00	
inferior conj	5190 Jul 27 10:47	7° Ω 25'14	-3°56'52	inferior conj	5191 Jul 07 04:33	17° © 40'07	-2°08'58
minimum elong	5190 Jul 27 01:57	7° Ω 37'38		minimum elong	5191 Jul 06 22:32		2°06'49
min. Earth dist.				•			
	5190 Jul 27 00:35	7° Ω 39'32	0.54882 AU	min. Earth dist.	5191 Jul 08 12:14	16°954'06	0.54935 AU
morning rise	5190 Aug 05 01:57	3° Ω 34'22		morning rise	5191 Jul 15 20:33	13° © 30'58	
direct	5190 Aug 08 09:01	3° Ω 10′32		direct	5191 Jul 19 18:49	12° © 57'38	
morning max el	5190 Aug 20 11:35	8° Ω 51'05	21°47'09	morning max el	5191 Aug 02 04:15	19° © 27'21	23°29'16
asc. node	5190 Sep 02 16:49	27° Ω 05′03			5191 Aug 10 23:38	$0^{\circ}\Omega$	
	5190 Sep 04 06:56	0° m)		asc. node	5191 Aug 20 13:50	16° Ω 18'16	
morning set	5190 Sep 10 07:50	12°m/03'01		morning set	5191 Aug 25 19:12	26° Ω 55'17	
morning sec	стэо бер то отлоо	12 03 01		morning sec	5191 Aug 27 05:55	0° m	
aunarian aan:	5100 Com 17 12:00	270 m 1712	1942/50		3171 Aug 27 03.33	עוו ט	
superior conj	5190 Sep 17 13:08	27° m) 17'25			51010 01 10 14	110% 50100	1005100
minimum elong	5190 Sep 17 12:39	27° m) 14'51	1°42'59	superior conj	5191 Sep 01 19:14	11° m 59'39	
	5190 Sep 18 20:19	0∘ ಹ		minimum elong	5191 Sep 01 17:41	11° m 51'20	1°37'16
max. Earth dist.	5190 Sep 21 09:51	5° ≙ 15'25	1.34777 AU	max. Earth dist.	5191 Sep 04 07:22	17° m 20′52	1.33430 AU
evening rise	5190 Sep 25 19:05	13° ≏ 54'28		evening rise	5191 Sep 09 09:04	27° Mp 47'46	
	5190 Oct 04 16:57	0° M .			5191 Sep 10 11:46	0∘ ⊽	
desc. node	5190 Oct 09 00:42	7°ML05'58		desc. node	5191 Sep 25 21:43	26° ≏ 57'08	
	5190 Oct 05 00:42 5190 Oct 25 12:32	0° ∡ 7			5191 Sep 27 22:18	0°M	
avaning may al	5190 Oct 25 12:52 5190 Oct 30 22:59	5° ∡ 748'09	26°50'27	evening max el	5191 Oct 13 11:09	19° M .11'47	27022104
evening max el			20 3021	•			21 22 04
retrograde	5190 Nov 13 02:02	13° ∡ *05'08		retrograde	5191 Oct 27 00:09	26°M30'12	
evening set	5190 Nov 19 17:31	10° ≯ 25'58		evening set	5191 Nov 03 00:43	23°M51'25	
min. Earth dist.	5190 Nov 23 17:39	6° ≯ 25'46	0.65777 AU	min. Earth dist.	5191 Nov 06 19:13	20°M25'11	0.64319 AU

inforior aoni	5101 Nov. 00, 04:47	17° M .52'34	2025115	avanina rica	5102 Aug 22 00:10	12° m 07'00	
inferior conj	5191 Nov 09 04:47			evening rise	5192 Aug 23 08:18	12°10√00 0° Ω	
minimum elong	5191 Nov 09 09:00	17°M41'20	2-23-37	J J.	5192 Sep 01 16:04		
morning rise	5191 Nov 15 18:39	12°M27'27		desc. node	5192 Sep 11 18:43	16° ≏ 15'52	
asc. node	5191 Nov 16 13:06	12°M10'46			5192 Sep 22 17:27	0° M ,	
direct	5191 Nov 18 07:20	11°M54'53		evening max el	5192 Sep 24 20:57	2°M08'06	27°24'30
morning max el	5191 Nov 24 19:16	15°M20'06	17°54'30	retrograde	5192 Oct 08 15:25	9° ™ 22'40	
	5191 Dec 05 04:55	0° ∡ ¹		evening set	5192 Oct 15 19:36	6°M54'34	
morning set	5191 Dec 11 21:22	11° ∡ 15′05		min. Earth dist.	5192 Oct 19 10:50	3°M57'35	0.62550 AU
desc. node	5191 Dec 22 20:58	29° ∡ ³33'17		inferior conj	5192 Oct 22 07:35	1° M .14'49	-3°28'04
	5191 Dec 23 03:32	0°る		minimum elong	5192 Oct 22 13:25	1° M ₀00'57	3°26'12
					5192 Oct 23 15:35	30° ₽ Ω	
superior conj	5191 Dec 25 03:16	3° る 13'29	-0°15'46	morning rise	5192 Oct 29 08:57	26° ₽ 07'25	
minimum elong	5191 Dec 25 01:26	3° ⋜ 06′02	0°15'29	direct	5192 Oct 31 17:33	25° ≏ 42'15	
behind sun begin	5191 Dec 24 22:32	2° る 54'19		asc. node	5192 Nov 02 10:08	25° ♀ 55'34	
behind sun end	5191 Dec 25 04:20	3° ප 17'45		morning max el	5192 Nov 07 11:45	29° ₽ 09'39	17°50'00
max. Earth dist.	5191 Dec 30 02:38	11° る 10'28	1.44763 AU	•	5192 Nov 08 07:12	0° M .	
evening rise	5192 Jan 10 04:52	28° る 27'27		morning set	5192 Nov 23 11:58	24°Mo2'49	
Z .	5192 Jan 11 04:59	0° ≈		Ü	5192 Nov 26 20:30	0° ∡ ⊓	
greatest brilliancy	5192 Jan 24 20:06	20° ≈ 32'31	-0.6m				
greatest stillianes	5192 Jan 31 13:15	0° ∀	0.0111	superior conj	5192 Dec 04 20:05	13° ∡ ′48'23	0°27'28
evening max el	5192 Feb 06 09:44	7° ₩ 01'12	20°14'46	minimum elong	5192 Dec 04 22:38	13°×7'59'07	0°27'07
asc. node	5192 Feb 12 12:22	11°) (20'16	20 14 40	desc. node	5192 Dec 08 18:00	20° х 19'59	0 2/0/
		11° X 36'16					1 42551 ATT
retrograde	5192 Feb 14 05:54			max. Earth dist.	5192 Dec 11 18:56	25° х 17'40	1.43551 AU
evening set	5192 Feb 18 01:35	10°) 11'36	2001121		5192 Dec 14 17:19	0°る	
inferior conj	5192 Feb 23 10:34	4°) €06'54		evening rise	5192 Dec 19 16:12	7° る 46'58	
minimum elong	5192 Feb 23 08:22	4°) (14′21	3°00'53		5193 Jan 03 11:34	0° ≈	
min. Earth dist.	5192 Feb 24 05:17	3° ¥ 03′26	0.67385 AU	evening max el	5193 Jan 19 08:00	20° ≈ 36′22	21°23'56
	5192 Feb 26 14:27	30° ₹ ≈		retrograde	5193 Jan 28 03:40	25° ≈ 50'04	
morning rise	5192 Feb 28 14:56	27°≈52'28		asc. node	5193 Jan 29 09:24	25° ≈ 41′50	
direct	5192 Mar 05 08:56	25°≈18'15		evening set	5193 Feb 01 09:21	24° ≈ 10′07	
	5192 Mar 14 14:17	0° ∀		inferior conj	5193 Feb 06 17:25	17° ≈ 54'37	2°30'12
morning max el	5192 Mar 16 21:54	2° 升 12′30	24°44'11	minimum elong	5193 Feb 06 15:00	18° ≈ 02'59	2°29'30
desc. node	5192 Mar 19 20:14	5°) €21'30		min. Earth dist.	5193 Feb 06 23:25	17° ≈ 33'47	0.67955 AU
	5192 Apr 07 00:24	0° Y		morning rise	5193 Feb 11 20:29	11° ≈ 42'16	
morning set	5192 Apr 21 22:40	24° Y 30'51		direct	5193 Feb 17 00:03	9° ≈ 27'43	
	5192 Apr 25 00:03	8°		morning max el	5193 Feb 27 06:57	15° ≈ 34'12	23°15'09
max. Earth dist.	5192 Apr 25 13:25	1° 8 01'05	1.37217 AU	desc. node	5193 Mar 06 17:16	24° ≈ 11'29	
					5193 Mar 11 02:23	0° ₩	
superior conj	5192 May 02 05:09	13° 8 36'10	-1°16'59		5193 Mar 31 00:13	0° Y	
minimum elong	5192 May 02 09:22	13° 8 56'45	1°16'19	morning set	5193 Apr 03 04:39	5° Y 16'16	
asc. node	5192 May 10 11:37	0° Д 03'10		max. Earth dist.	5193 Apr 07 08:52	12° Y ′24'00	1.39397 AU
	5192 May 10 10:59	0° I I			r r		
evening rise	5192 May 10 17:28	0°П32'26		superior conj	5193 Apr 15 00:07	26° Y ′06'35	-1°43'11
evening max el	5192 May 27 14:40	27° П 59'36	19°21'49	minimum elong	5193 Apr 15 05:09	26° Y 29'56	
evening max er	5192 May 29 22:52	0°9	1, 21 1,	minimum ciong	5193 Apr 17 02:08	0°8	1 1237
retrograde	5192 Jun 05 21:27	2° © 31'42		evening rise	5193 Apr 24 11:33	14° 8 08'49	
evening set	5192 Jun 07 20:25	2°\$20'29		asc. node	5193 Apr 27 08:39	19° 8 39'11	
evening set	5192 Jun 13 13:38	2 3 20 29		asc. node	5193 May 03 02:40	0°Ⅱ	
daga mada		28° I I36'33		arranina marral	-	0 Ⅱ 10°Ⅱ15'17	18°36'54
desc. node	5192 Jun 15 19:27		0010142	evening max el	5193 May 10 16:19		16 30 34
inferior conj	5192 Jun 16 09:49	28° Ⅱ 13'09		retrograde	5193 May 18 13:11	14° Ⅱ 08'06	
minimum elong	5192 Jun 16 09:21	28° Ⅱ 13'55		evening set	5193 May 20 18:00	13° Ⅱ 50'55	1020112
transit middle	5192 Jun 16 09:21	28° Ⅱ 13'55	0°10'32	inferior conj	5193 May 28 11:23	9° Ⅲ 24'51	1°28'13
transit begin	5192 Jun 16 06:27	28° Ⅱ 18'40		minimum elong	5193 May 28 14:19	9° Ⅱ 19'13	1°27'14
transit end	5192 Jun 16 12:16	28° ∏ 09'09		min. Earth dist.	5193 May 31 19:42	6° Ⅱ 52'28	0.57666 AU
min. Earth dist.	5192 Jun 19 02:09	26° ∏ 28'30	0.55933 AU	desc. node	5193 Jun 02 16:29	5° Ⅱ 35'33	
morning rise	5192 Jun 24 19:26	23° ∏ 31′08		morning rise	5193 Jun 05 07:23	4° Ⅱ 07'31	
direct	5192 Jun 29 14:58	22° ∏ 38′22		direct	5193 Jun 11 01:04	2° Ⅱ 45'07	
morning max el	5192 Jul 13 17:40	29° ∏ 47'28	25°11'31	morning max el	5193 Jun 25 10:05	10° Ⅲ 20'42	26°37'39
	5192 Jul 13 22:53	0 \circ \odot			5193 Jul 10 11:55	0 \circ 50	
	5192 Aug 03 11:22	$0^{\circ}\Omega$		asc. node	5193 Jul 24 07:54	25° 5 44'53	
asc. node	5192 Aug 06 10:52	5° Ω 53'52		morning set	5193 Jul 24 17:12	26° © 33'48	
morning set	5192 Aug 09 06:52	11° Ω 47'26			5193 Jul 26 07:53	$0^{\circ}\Omega$	
superior conj							
superior conj	5192 Aug 16 05:06	26° Ω 51'28	1°26'12	superior conj	5193 Jul 31 16:43	11° Ω 45'42	1°10'11
minimum elong	5192 Aug 16 05:06 5192 Aug 16 02:57			superior conj minimum elong	5193 Jul 31 16:43 5193 Jul 31 14:25	11° Ω 45'42 11° Ω 33'00	1°10'11 1°09'48
	-						
minimum elong	5192 Aug 16 02:57	26° Ω 39'39	1°25'56	minimum elong	5193 Jul 31 14:25	11° Q 33'00	1°09'48

-			_				
	5193 Aug 09 03:47	0° m/y			5194 Aug 01 09:04	0° m	
	5193 Aug 26 04:31	0∘ <mark>⊽</mark>		desc. node	5194 Aug 16 12:47	22° m/ 14'53	
desc. node	5193 Aug 29 15:45	4° ≏ 48'05		evening max el	5194 Aug 19 22:14	25° Mp 46'42	25°50'26
evening max el	5193 Sep 07 01:22	14° ≙ 22'16	26°53'42	-	5194 Aug 25 04:46	0∘ ⊽	
retrograde	5193 Sep 20 22:50	21° ≏ 32'24		retrograde	5194 Sep 02 21:15	2° £ 53'17	
evening set	5193 Sep 27 21:51	19° ≏ 26'53		evening set	5194 Sep 09 02:37	1° ≏ 21'17	
min. Earth dist.	5193 Oct 01 15:30	16° ≏ 48'48	0.60547 AU		5194 Sep 11 13:20	30°₽.₩	
inferior conj	5193 Oct 04 20:14	14° ≏ 09'28	-4°24'54	min. Earth dist.	5194 Sep 13 10:31	28° m 45'17	0.58477 AU
minimum elong	5193 Oct 05 02:28	13° ≏ 56'26	4°23'27	inferior conj	5194 Sep 16 15:13	26° № 26'55	-5°06'06
morning rise	5193 Oct 12 09:06	9° ₽ 23'22		minimum elong	5194 Sep 16 19:18	26° № 19'32	5°05'38
direct	5193 Oct 14 16:49	9° ჲ 02'30		morning rise	5194 Sep 24 14:16	22° Mp 04'04	
asc. node	5193 Oct 20 07:10	11° ≏ 10′00		direct	5194 Sep 27 00:29	21°M/45'06	
morning max el	5193 Oct 22 00:57	12° ≙ 40′26	18°04'28	morning max el	5194 Oct 05 07:30	25° Mp 43'23	18°39'18
	5193 Nov 02 16:02	0° M		asc. node	5194 Oct 07 04:12	27° m 41'16	
morning set	5193 Nov 06 18:59	7° M 36'38			5194 Oct 09 00:47	0∘ ত	
				morning set	5194 Oct 21 13:28	21° ≙ 42'14	
superior conj	5193 Nov 16 14:43	25° ™ 38′10	1°01'23		5194 Oct 25 19:51	0°M	
minimum elong	5193 Nov 16 18:40	25°M55'41	1°00'53				
	5193 Nov 19 02:07	0° ∡ ¹		superior conj	5194 Oct 30 06:36	8°M29'29	1°24'43
max. Earth dist.	5193 Nov 24 06:27	8° ∡ 751'18	1.41807 AU	minimum elong	5194 Oct 30 09:54	8°M45'00	1°24'23
desc. node	5193 Nov 25 15:01	11° ∡ 06'48		max. Earth dist.	5194 Nov 06 12:49	21°M40'32	1.39751 AU
evening rise	5193 Nov 29 16:39	17° ∡ ¹44'39		evening rise	5194 Nov 10 14:45	28°M41'16	
C	5193 Dec 07 13:05	8°0		Č	5194 Nov 11 09:32	0° √	
	5193 Dec 29 05:01	0° ≈		desc. node	5194 Nov 12 12:03	1° х 50′13	
evening max el	5194 Jan 02 01:15	4°≈13'15	22°41'16		5194 Dec 01 01:09	0°⋜	
retrograde	5194 Jan 11 23:32	10° ≈ 07'06		evening max el	5194 Dec 15 15:07	17° る 53'05	24°01'15
asc. node	5194 Jan 16 06:26	8° ≈ 31'47		retrograde	5194 Dec 26 16:09	24° る 22'59	
evening set	5194 Jan 16 16:43	8°≈11'23		evening set	5194 Dec 31 22:05	22° る 11'53	
inferior conj	5194 Jan 22 01:30	1°≈48'24	1°50'51	asc. node	5195 Jan 03 03:28	19° る 56'22	
minimum elong	5194 Jan 21 23:20	1°≈55'53	1°50'07	min. Earth dist.	5195 Jan 05 16:23		0.67922 AU
min. Earth dist.	5194 Jan 21 19:54	2°≈07'49	0.68125 AU	inferior conj	5195 Jan 06 08:59	15° る 45'26	1°04'20
mm. Earth dist.	5194 Jan 23 09:09	30°Rる	0.00125 110	minimum elong	5195 Jan 06 07:32		1°03'47
morning rise	5194 Jan 27 05:52	25° る 39'34		morning rise	5195 Jan 11 17:03	9° ප් 41'45	1 03 17
direct	5194 Jan 31 18:49	23° る 47'43		direct	5195 Jan 15 16:14	8° ප 12'30	
morning max el	5194 Feb 09 19:48	29°る04'32	21°48'12	morning max el	5195 Jan 23 15:27	12° ප් 45'53	20°30'21
morning max cr	5194 Feb 10 17:21	0°≈	21 4012	morning max cr	5195 Feb 06 00:25	0°≈	20 3021
desc. node	5194 Feb 21 14:18	13° ≈ 39'31		desc. node	5195 Feb 08 11:20	3°≈34'49	
dese. Hode	5194 Mar 04 19:35	0° ∀		morning set	5195 Feb 21 07:55	23°≈02'46	
morning set	5194 Mar 14 06:16	14°) (41'19		morning set	5195 Feb 25 18:37	0° H	
max. Earth dist.	5194 Mar 20 08:08		1.41544 AU	max. Earth dist.	5195 Mar 02 14:18		1.43382 AU
max. Latin dist.	5194 Mar 23 13:10	0°Υ	1.41344 AO	max. Lartii dist.	3173 Wai 02 14.16	/ /(4104	1.43362 AC
	519 (Widi 25 15.10	0 1		superior conj	5195 Mar 08 23:51	18° ₩ 09'49	-2°08'59
superior conj	5194 Mar 27 23:57	7° Ƴ 41'22	-2°02'16	minimum elong	5195 Mar 08 23:21	18°)(07'47	
minimum elong	5194 Mar 28 03:49	7° Υ 58'22		minimum crong	5195 Mar 15 23:18	0°Υ	2 00 27
evening rise	5194 Apr 07 17:48	27° Υ 08'16	2 02 03	evening rise	5195 Mar 21 07:50	9° Υ 20'23	
evening rise	5194 Apr 09 07:06	0°8		asc. node	5195 Apr 01 02:45	27° Y 43'28	
asc. node	5194 Apr 14 05:42	8° 8 55'06		ase. node	5195 Apr 02 14:53	0°8	
evening max el	5194 Apr 24 01:00	23° 8 02'03	18°12'10	evening max el	5195 Apr 02 14:35 5195 Apr 07 13:15	6° 8 10'09	18°06'58
retrograde	5194 Apr 30 23:42	26° 8 31'51	10 12 10	retrograde	5195 Apr 14 00:57	9° 8 32'09	10 00 20
evening set	5194 May 03 11:21	26° 8 05'40		evening set	5195 Apr 16 19:05	8° 8 54'57	
inferior conj	5194 May 10 10:22	21° 8 19'02	2°36'19	inferior conj	5195 Apr 23 03:34	3° 8 48'29	3°15'30
minimum elong	5194 May 10 10:22 5194 May 10 13:45	21° 8 11'27		minimum elong	5195 Apr 23 05:44		3°15'12
min. Earth dist.	5194 May 13 19:22	18° 8 19'29	0.59795 AU	min. Earth dist.	5195 Apr 26 03:05	0° 8 46'33	0.61991 AU
morning rise	5194 May 17 13:31	15° 8 34'10	0.57175 AO	iiiii. Lattii dist.	5195 Apr 26 22:35	30°RΥ	0.01771 AC
desc. node	5194 May 17 13:31 5194 May 20 13:32	13 8 34 10		morning rise	5195 Apr 29 14:41	27° Υ 46'49	
direct	5194 May 24 00:12	13° 8 37'22		direct	5195 Apr 29 14.41 5195 May 06 10:11	25° Υ 20'01	
morning max el	5194 Jun 07 08:52	21° 8 29'39	270331/10	desc. node	5195 May 07 10:34	25° Y 23'05	
morning max ci		0°Ⅱ	27 33 47	desc. node	5195 May 16 21:26	0° 8	
	5194 Jun 14 18:51 5194 Jul 03 10:39	0.2 0.П		morning max el	5195 May 16 21:26 5195 May 20 13:41	3° 8 20'17	27°52'50
morning set	5194 Jul 03 10:39 5194 Jul 09 00:29			morning max ei	5195 May 20 13:41 5195 Jun 09 07:31	3° O 2017 0° Ⅱ	41 34 39
morning set		11°509'13		marning set			
asc. node	5194 Jul 11 04:57	15°5546'08	1 21040 411	morning set	5195 Jun 23 02:44	25° Ⅱ 26'44	
max. Earth dist.	5194 Jul 15 10:23	24° © 57'48	1.31940 AU	1	5195 Jun 25 07:38	0°छ	
aumori ·	5104 I1 16 04 20	2606226146	0940152	asc. node	5195 Jun 28 02:00	5°952'24	1 22200 411
superior conj	5194 Jul 16 04:20	26° © 36'46	0°49'53	max. Earth dist.	5195 Jun 28 18:43	12232	1.32288 AU
		2600-25155	0940120				
minimum elong	5194 Jul 16 02:22	26°\$25'55	0°49'29	·		11001000	0925152
minimum elong evening rise		26° © 25'55 0° Ω 11° Ω 27'49	0°49'29	superior conj minimum elong	5195 Jun 30 14:09 5195 Jun 30 12:58	11°©18'28 11°©12'05	0°25'53 0°25'37

	5105 1 1 05 11 00	0.0001.511.0			5106 X 12 20 15	0.50 T 4.415.5	0001110
evening rise	5195 Jul 07 11:00	26°515'13		superior conj	5196 Jun 13 20:17	25° Ⅱ 44'55	
	5195 Jul 09 05:38	0 $^{\circ}$ Ω		minimum elong	5196 Jun 13 20:21	25° ∏ 45'15	0°01'12
	5195 Jul 26 18:33	O° My		behind sun begin	5196 Jun 13 14:59	25° Ⅱ 16'32	
evening max el	5195 Aug 01 12:23	6° Mp 27′32	24°22'51	behind sun end	5196 Jun 14 01:43	26° Ⅱ 14′00	
desc. node	5195 Aug 03 09:49	8° Mp 10′20		asc. node	5196 Jun 13 23:02	25° Ⅱ 59'37	
retrograde	5195 Aug 15 08:36	13° m 25'59			5196 Jun 15 19:47	0 \circ ∞	
evening set	5195 Aug 20 06:56	12° Mp 31'48		evening rise	5196 Jun 20 22:37	10° © 59'00	
min. Earth dist.	5195 Aug 25 23:22	9° ™ 38'56	0.56609 AU		5196 Jun 30 16:54	$\mathfrak{O}^{\circ}\mathfrak{O}$	
inferior conj	5195 Aug 28 14:10	7° m 59'50	-5°16'55	evening max el	5196 Jul 13 01:25	16° Ω 48'45	22°45'17
minimum elong	5195 Aug 28 12:45	8° M 02'05	5°16'53	desc. node	5196 Jul 20 06:50	22° Ω 01′28	
morning rise	5195 Sep 05 21:02	3° m 57'52		retrograde	5196 Jul 26 07:02	23° Ω 24'16	
direct	5195 Sep 08 13:07	3° m 38'44		evening set	5196 Jul 29 16:50	22° Ω 58'51	
morning max el	5195 Sep 18 04:09	8° Mp 08'54	19°35'48	min. Earth dist.	5196 Aug 06 09:34	19° Ω 34'46	0.55284 AU
asc. node	•	-•	17 33 40		•	18° Ω 47'54	
asc. noue	5195 Sep 24 01:14	15° Mp 14′23 0° <u> </u>		inferior conj	5196 Aug 07 18:20		
	5195 Oct 02 13:10			minimum elong	5196 Aug 07 10:52	18° Ω 58'37	4°39'50
morning set	5195 Oct 05 15:48	6° ഫ 09'58		morning rise	5196 Aug 16 06:58	14° Ω 57'34	
		_		direct	5196 Aug 19 07:58	14° Ω 36′06	
superior conj	5195 Oct 13 14:21	22° ≏ 07'11	1°38'15	morning max el	5196 Aug 30 12:40	19° Ω 49'00	20°53'49
minimum elong	5195 Oct 13 16:12	22° ≏ 16'18	1°38'09		5196 Sep 07 17:04	0° m ∕	
	5195 Oct 17 16:05	0°M		asc. node	5196 Sep 09 22:17	3° m 35'13	
max. Earth dist.	5195 Oct 19 17:24	3°M51'09	1.37646 AU	morning set	5196 Sep 18 23:15	20° m 51'55	
evening rise	5195 Oct 23 11:30	10° M 39′52			5196 Sep 23 08:31	0∘ ⊽	
desc. node	5195 Oct 30 09:04	22°M26'25					
	5195 Nov 04 02:40	0° ⊼ ¹		superior conj	5196 Sep 26 09:24	6° ≏ 17'41	1°43'20
	5195 Nov 26 13:37	0°₹		minimum elong	5196 Sep 26 09:42	6° ≏ 19'13	1°43'21
evening max el	5195 Nov 28 03:47	1° る 36'43	25°17'11	max. Earth dist.	5196 Oct 01 02:02	15° Ω 44'13	1.35730 AU
retrograde	5195 Dec 10 04:29	8° る 33'19	23 17 11	evening rise	5196 Oct 05 03:33	23° ₽ 31'32	1.55750710
evening set	5195 Dec 15 04:29	6° そ 08'28		evening rise	5196 Oct 08 16:37	0°M	
min. Earth dist.	5195 Dec 20 10:36	1°る12'29	0.67363 AU	desc. node	5196 Oct 16 16:05	12°M50'10	
			0.07303 AU	desc. node			
asc. node	5195 Dec 21 00:29	0°る27'32			5196 Oct 27 18:35	0° √	26021120
	5195 Dec 21 08:57	30°R. ✓		evening max el	5196 Nov 09 16:34	15° √ 19'41	26°21'39
inferior conj	5195 Dec 21 14:05	29° ∡ ¹43'17	0°11'33	retrograde	5196 Nov 22 11:34	22° ∡ ³31'32	
minimum elong	5195 Dec 21 13:48	29° ₹ 44'14	0°11'26	evening set	5196 Nov 28 20:08	19° ∡ 56′17	
transit middle	5195 Dec 21 13:48	29° ∡ ⁴44'14	0°11'26	min. Earth dist.	5196 Dec 03 00:05	15° ∡ ³35'33	0.66456 AU
transit begin	5195 Dec 21 11:50	29° ₰ ′50′38		inferior conj	5196 Dec 04 14:52	13° ∡ ³37′28	-0°46'35
transit end	5195 Dec 21 15:46	29° ∡ ³37'50		minimum elong	5196 Dec 04 16:08	13° ∡ ³33'35	0°46'01
morning rise	5195 Dec 27 04:02	23° ∡ ¹46'47		asc. node	5196 Dec 06 21:31	10° ∡ 57′23	
direct	5195 Dec 30 15:00	22° ∡ ³37'54		morning rise	5196 Dec 10 12:45	7° ∡ ¹50'48	
morning max el	5196 Jan 06 19:00	26° ∡ ³38'21	19°26'02	direct	5196 Dec 13 13:23	6° ∡ ¹58'56	
	5196 Jan 09 19:26	0°る		morning max el	5196 Dec 20 05:26	10° ∡ ³37'37	18°37'20
greatest brilliancy	5196 Jan 19 22:51	14° る 07'48	-0.7m	morning must vi	5197 Jan 03 03:44	0° る	10 37 20
desc. node	5196 Jan 26 08:21	23° る 50'10	0.7111	morning set	5197 Jan 10 00:02	10°る48'32	
uese. Houe	5196 Jan 30 08:28	0°≈		desc. node	5197 Jan 10 00:02 5197 Jan 12 05:21	10 348 32 14° る 19'17	
				desc. node			
morning set	5196 Jan 31 05:54	1°≈22'45	1 44605 411		5197 Jan 22 04:26	0° ≈	
max. Earth dist.	5196 Feb 13 03:23	21° ≈ 30'43	1.44685 AU				
				superior conj	5197 Jan 26 03:37	6° ≈ 13'11	
superior conj	5196 Feb 16 22:33	27° ≈ 32'50		minimum elong	5197 Jan 25 18:16	5° ≈ 36'31	1°26'09
minimum elong	5196 Feb 16 15:45	27° ≈ 05'41	1°57'28	max. Earth dist.	5197 Jan 25 21:26	5° ≈ 48'58	1.45301 AU
	5196 Feb 18 11:19	0° ₩			5197 Feb 10 05:03	0° ∀	
evening rise	5196 Mar 02 01:20	20°) 37′50		evening rise	5197 Feb 10 19:31	0°) (57′44	
	5196 Mar 07 15:56	0 ° $\mathbf{\Upsilon}$		greatest brilliancy	5197 Feb 19 02:47	14° ∺ 11'57	-0.8m
asc. node	5196 Mar 17 23:47	15° Ƴ 56'03			5197 Mar 01 20:58	0° Y	
evening max el	5196 Mar 21 02:03	19° Ƴ 32'14	18°20'34	evening max el	5197 Mar 04 12:47	3° Y 01'43	18°52'11
retrograde	5196 Mar 27 12:33	23° Y '00'12		asc. node	5197 Mar 04 20:48	3° Y 21'46	
evening set	5196 Mar 30 13:00	22° Υ 10'42		retrograde	5197 Mar 11 06:37	6° Y 47'56	
inferior conj	5196 Apr 05 10:53	16° Υ 45'32	3°31'35	evening set	5197 Mar 14 13:46	5° Υ 45'16	
minimum elong	5196 Apr 05 10:35	16° Υ 43'59	3°31'33	inferior conj	5197 Mar 20 04:29	0° Υ '02'57	3°30'04
•	•	10 γ 43 39 14° γ 02'57		=			3°30'00
min. Earth dist.	5196 Apr 07 19:57		0.63997 AU	minimum elong	5197 Mar 20 03:36		3-30-00
morning rise	5196 Apr 11 08:57	10° Υ 35'20			5197 Mar 20 05:26	30° ₹ ₩	0.65642 :::
direct	5196 Apr 18 04:40	7° Y 50'08		min. Earth dist.	5197 Mar 21 21:52	27°) 54'12	0.65643 AU
desc. node	5196 Apr 23 07:36	9° Ƴ 09'07		morning rise	5197 Mar 25 17:01	23°) 49′04	
morning max el	5196 May 01 22:19	15° Ƴ 48'17	27°35'07	direct	5197 Apr 01 05:58	20° 米 59′20	
	5196 May 13 14:02	9° 8		desc. node	5197 Apr 10 04:37	24°) 57′10	
	5196 Jun 01 00:50	$\Pi^{\circ}0$		morning max el	5197 Apr 14 08:19	28°) €43'36	26°45'37
morning set	5196 Jun 05 21:28	9° Ⅱ 18'53			5197 Apr 15 13:48	0° Y	
max. Earth dist.	5196 Jun 10 20:14		1.33084 AU		5197 May 07 09:27	0° ႘	
				morning set	5197 May 20 05:32	22° 8 36'30	
				<i>3</i> ·	,		

	5197 May 24 00:40	0° I I			5198 Apr 11 05:46	0°Υ	
max. Earth dist.	5197 May 24 00:40 5197 May 24 11:47	0° П 55'21	1.34348 AU		5198 Apr 30 02:01	0°8	
max. Earth dist.	31) / May 21 11.1/	0 1133 21	1.5 15 16 110	morning set	5198 May 02 22:35	5° 8 06'56	
superior conj	5197 May 28 20:36	9° Ⅱ 49'52	-0°30'22	max. Earth dist.	5198 May 06 16:12	12° 8 02'39	1.36063 AU
minimum elong	5197 May 28 22:15	9° ∏ 58'22				0	
asc. node	5197 May 31 20:05	16° Ⅱ 03'56		superior conj	5198 May 12 12:20	23° 8 24'58	-1°00'14
evening rise	5197 Jun 05 08:24	25° Ⅲ 33'18		minimum elong	5198 May 12 15:41	23° 8 41'43	0°59'39
	5197 Jun 07 12:10	0°ಅ			5198 May 15 18:33	$\Pi^{\circ}0$	
evening max el	5197 Jun 24 21:24	27°523'39	21°13'13	asc. node	5198 May 18 17:06	6° Ⅱ 00'39	
	5197 Jun 27 22:09	$0^{\circ}\Omega$		evening rise	5198 May 20 14:13	9° Ⅱ 50'49	
retrograde	5197 Jul 06 20:22	3° Ω 17'16			5198 May 31 11:47	0 \circ	
desc. node	5197 Jul 07 03:51	3° £ 17′02		evening max el	5198 Jun 07 05:18	8° 5 34'38	19°56'47
evening set	5197 Jul 09 03:33	3° Ω 04'59		retrograde	5198 Jun 17 11:43	13° © 36'01	
	5197 Jul 16 21:37	30° ₹ 🥯		evening set	5198 Jun 19 09:41	13° © 26'18	
inferior conj	5197 Jul 18 11:57	29° 5 06'41	-3°14'41	desc. node	5198 Jun 24 00:53	11° © 52'13	
minimum elong	5197 Jul 18 03:35	29° 5 18'24	3°12'03	inferior conj	5198 Jun 28 09:05	9° 5 25'45	-1°17'56
min. Earth dist.	5197 Jul 18 19:52	28° © 55'35	0.54788 AU	minimum elong	5198 Jun 28 05:27	9° © 31'15	1°16'36
morning rise	5197 Jul 27 04:12	25°510'48		min. Earth dist.	5198 Jun 30 08:09	8° 5 014'29	0.55253 AU
direct	5197 Jul 30 17:16	24° © 43'45		morning rise	5198 Jul 06 23:24	5° 5 03'59	
	5197 Aug 11 13:55	$0^{\circ}\Omega$		direct	5198 Jul 11 05:58	4° 5 24'01	
morning max el	5197 Aug 12 09:57	0° Ω 45'11	22°29'38	morning max el	5198 Jul 25 00:32	11° © 11'30	24°13'43
asc. node	5197 Aug 27 19:19	22° Ω 32′26			5198 Aug 08 04:43	$0 {\circ} \Omega$	
	5197 Aug 31 15:21	0° mp		asc. node	5198 Aug 14 16:21	11° Ω 55'56	
morning set	5197 Sep 03 09:45	5° m 42'33		morning set	5198 Aug 18 21:28	20° Ω 35'27	
					5198 Aug 23 06:12	0°Щ	
superior conj	5197 Sep 10 12:19	20° m 51'10					
minimum elong	5197 Sep 10 11:20	20° Mp 45'56		superior conj	5198 Aug 25 20:19	5° m 38'13	1°33'16
max. Earth dist.	5197 Sep 13 18:51	27° m/42'48	1.34156 AU	minimum elong	5198 Aug 25 18:27	5° Tp 28'06	1°33'05
	5197 Sep 14 21:34	0∘ ⊽		max. Earth dist.	5198 Aug 27 20:06	9° TQ 56'22	1.32987 AU
evening rise	5197 Sep 18 10:43	7° Ω 05'38		evening rise	5198 Sep 02 05:02	21° mp 10'38	
	5197 Oct 01 06:59	0°M			5198 Sep 06 16:57	0∘ ⊽	
desc. node	5197 Oct 03 03:06	2°M55'37	27007107	desc. node	5198 Sep 20 00:09	22° Ω 34'15	
evening max el	5197 Oct 23 05:20	28°M53'35	2/90/0/	. 1	5198 Sep 25 05:35	0°M	27026151
	5197 Oct 24 09:57	0°×7		evening max el	5198 Oct 05 16:34	12°M06'04	2/°26'51
retrograde	5197 Nov 05 12:52	6° ₹ 11'08		retrograde	5198 Oct 19 08:05	19°M23'19	
evening set	5197 Nov 12 08:51 5197 Nov 16 01:17	3° ₹ 31'07 30°R M		evening set min. Earth dist.	5198 Oct 26 11:14 5198 Oct 30 03:49	16°M47'21 13°M34'45	0.63604 AU
min. Earth dist.	5197 Nov 16 01:17	29°M45'45	0.65203 AU	inferior conj	5198 Nov 01 18:27	10°M56'15	
inferior conj	5197 Nov 10 00:31 5197 Nov 18 09:11	27°M23'48		minimum elong	5198 Nov 01 18:27 5198 Nov 01 23:27	10°M43'35	
minimum elong	5197 Nov 18 09:11 5197 Nov 18 12:18	27°MJ5'01		morning rise	5198 Nov 01 23:27 5198 Nov 08 13:11	5°M38'35	2 30 20
asc. node	5197 Nov 18 12:18 5197 Nov 23 18:33	22°M20'35	1 4/1/	direct	5198 Nov 10 23:48	5°M09'35	
morning rise	5197 Nov 24 16:49	21°M49'59		asc. node	5198 Nov 10 15:35	5°M10'10	
direct	5197 Nov 27 09:14	21°ML11'24		morning max el	5198 Nov 17 13:28		17°50'25
morning max el	5197 Dec 03 20:33	24°MJ38'37	18°05'13	morning man er	5198 Dec 01 19:41	0° ∡ 7	1, 0020
	5197 Dec 08 06:52	0° ∡ ¹		morning set	5198 Dec 04 01:57	3° х 54'42	
morning set	5197 Dec 21 23:44	21° х 43'06		S			
C	5197 Dec 27 00:53	ರ°0		superior conj	5198 Dec 16 11:29	24° ≯ ′53'48	0°03'30
desc. node	5197 Dec 30 02:20	4° る 57'57		minimum elong	5198 Dec 16 11:51	24° ₹ 55'23	0°03'29
				behind sun begin	5198 Dec 16 02:22	24° √ 16′22	
superior conj	5198 Jan 05 09:45	15° る 03'22	-0°42'53	behind sun end	5198 Dec 16 21:21	25° ∡ ³34'18	
minimum elong	5198 Jan 05 04:28	14° る 42'23	0°42'09	desc. node	5198 Dec 16 23:23	25° х 42′38	
max. Earth dist.	5198 Jan 08 17:12	20° ප 16'56	1.45169 AU		5198 Dec 19 14:38	5°0	
	5198 Jan 14 22:18	0° ≈		max. Earth dist.	5198 Dec 22 11:10	4° る 35'09	1.44315 AU
evening rise	5198 Jan 21 16:45	10° ≈ 30′21		evening rise	5199 Jan 01 03:07	19° る 42'44	
	5198 Feb 03 10:05	0° ℋ			5199 Jan 07 21:15	0° ≈	
greatest brilliancy	5198 Feb 03 21:42	0°) 43′27	-0.7m		5199 Jan 29 17:37	0°) €	
evening max el	5198 Feb 15 19:22	16°) 34′06	19°40'22	evening max el	5199 Jan 29 20:38	0°) 07'47	20°42'53
asc. node	5198 Feb 19 17:50	19°) 47′18		asc. node	5199 Feb 06 14:52	4° ¥ 58′08	
retrograde	5198 Feb 23 04:04	20°) (49′09		retrograde	5199 Feb 07 02:24	4°) € 59'23	
evening set	5198 Feb 26 18:49	19°) 32'37		evening set	5199 Feb 11 02:07	3° ¥ 28′15	
inferior conj	5198 Mar 04 05:12	13°) ₹35'08			5199 Feb 14 10:02	30°R ≈	
minimum elong	5198 Mar 04 03:20	13°) €41'17	3°14'44	inferior conj	5199 Feb 16 10:27		2°49'13
min. Earth dist.	5198 Mar 05 07:42	12° ₩ 07'23	0.66868 AU	minimum elong	5199 Feb 16 08:06	27°≈26'23	2°48'40
morning rise	5198 Mar 09 11:38	7° ₩ 20′21		min. Earth dist.	5199 Feb 16 23:34	26°≈33'18	0.67667 AU
direct	5198 Mar 15 13:14	4° ₩ 38'02	25022150	morning rise	5199 Feb 21 13:54	21°≈04'27	
morning max el	5198 Mar 27 17:48	11° X 54'44	25°32'50	direct	5199 Feb 27 01:44	18°≈38'11	24006144
desc. node	5198 Mar 28 01:37	12° ∺ 14'39		morning max el	5199 Mar 10 02:32	25° ≈ 13'38	24°06'44

	5199 Mar 14 10:25	0°) €		desc. node	5200 Feb 29 19:39	19° ≈ 43'40	
desc. node	5199 Mar 14 22:38	0°) 36′23		desc. node	5200 Mar 08 04:51	0° ∀	
	5199 Apr 04 17:52	0°Υ		morning set	5200 Mar 25 13:19	26°) 46'46	
morning set	5199 Apr 14 19:12	16° Ƴ 35'45			5200 Mar 27 12:03	0°Υ	
max. Earth dist.	5199 Apr 18 12:40	23° Y ′09'08	1.38125 AU	max. Earth dist.	5200 Mar 30 08:22	4° Υ 47'40	1.40325 AU
	5199 Apr 22 06:54	0°8					
	r			superior conj	5200 Apr 07 03:30	18° Ƴ 29'33	-1°52'27
superior conj	5199 Apr 25 16:06	6° 8 21'55	-1°28'40	minimum elong	5200 Apr 07 08:22	18° Ƴ 51'36	1°52'02
minimum elong	5199 Apr 25 20:50	6° 8 44'29	1°28'02	Č	5200 Apr 13 08:53	0°B	
evening rise	5199 May 04 13:29	23° 8 44'34		evening rise	5200 Apr 17 02:58	7° 8 05'36	
asc. node	5199 May 05 14:10	25° 8 45'43		asc. node	5200 Apr 21 11:12	15° 8 13'33	
	5199 May 07 18:35	$\Pi^{\circ}0$			5200 Apr 30 15:06	$\Pi^{\circ}0$	
evening max el	5199 May 21 01:17	20° Ⅲ 28′21	19°00'11	evening max el	5200 May 03 06:25	2° Ⅱ 58'25	18°24'01
retrograde	5199 May 29 16:38	24° ∏ 42'09		retrograde	5200 May 10 16:21	6° Ⅱ 39'09	
evening set	5199 May 31 17:29	24° Ⅲ 29'01		evening set	5200 May 13 00:07	6° Ⅱ 18'29	
inferior conj	5199 Jun 08 22:30	20° Ⅱ 14'22	0°34'39	inferior conj	5200 May 20 09:21	1° Ⅱ 44'04	2°00'51
minimum elong	5199 Jun 08 23:53	20° Ⅱ 11'58	0°34'08	minimum elong	5200 May 20 12:46	1° Ⅲ 37′02	1°59'51
desc. node	5199 Jun 10 21:54	18° Ⅱ 51′22			5200 May 22 12:02	30° ₹ 8	
min. Earth dist.	5199 Jun 11 23:45	18° Ⅲ 07'14	0.56599 AU	min. Earth dist.	5200 May 23 19:46	28° 8 56'57	0.58545 AU
morning rise	5199 Jun 17 02:58	15° Ⅱ 16′23		morning rise	5200 May 27 22:18	26° 8 13'46	
direct	5199 Jun 22 07:59	14° Ⅱ 12'06		desc. node	5200 May 27 18:55	26° 8 18'14	
morning max el	5199 Jul 06 14:51	21° Ⅱ 34'38	25°50'56	direct	5200 Jun 03 00:19	24° 8 36'25	
	5199 Jul 13 23:41	0° ©			5200 Jun 14 20:03	$\Pi^{\circ}0$	
	5199 Jul 31 18:11	$0^{\circ}\Omega$		morning max el	5200 Jun 17 09:39	2° Ⅲ 20′39	27°05'40
asc. node	5199 Aug 01 13:24	1° Ω 38'38			5200 Jul 07 08:12	0ං ව	
morning set	5199 Aug 03 08:47	5° Ω 25'37		morning set	5200 Jul 17 18:04	20° © 08'05	
				asc. node	5200 Jul 18 10:28	21° 5 34'40	
superior conj	5199 Aug 10 07:12	20° Ω 31'50	1°19'58		5200 Jul 22 07:58	$0^{\circ}\Omega$	
minimum elong	5199 Aug 10 04:55	20° Ω 19'19	1°19'38				
max. Earth dist.	5199 Aug 11 03:50	22° Ω 25′18	1.32247 AU	superior conj	5200 Jul 24 19:04	5° Ω 25'48	1°02'05
	5199 Aug 14 15:27	0° m		minimum elong	5200 Jul 24 16:51	5° Ω 13'34	1°01'40
evening rise	5199 Aug 17 07:17	5° Mp 37′32		max. Earth dist.	5200 Jul 24 14:53	5° Ω 02'40	1.31931 AU
	5199 Aug 30 07:19	0∘ ত		evening rise	5200 Jul 31 14:52	20° Ω 18′29	
desc. node	5199 Sep 06 21:11	11° ≏ 34'56			5200 Aug 05 08:37	O° Mp	
evening max el	5199 Sep 18 00:13	24° ≏ 44'51	27°15'26	desc. node	5200 Aug 23 18:13	29° m 42'22	
	5199 Sep 24 22:56	0° M.			5200 Aug 23 23:54	0∘ ত	
retrograde	5199 Oct 01 20:29	1°M58'21		evening max el	5200 Aug 30 01:48	6° £ 39'25	26°30'32
	5199 Oct 08 09:34	30° ₹ Ω		retrograde	5200 Sep 13 00:31	13° ≏ 48'04	
evening set	5199 Oct 08 23:38	29° ჲ 38′09		evening set	5200 Sep 19 17:26	11° ≏ 56'01	
min. Earth dist.	5199 Oct 12 14:46	26° ♀ 50'55	0.61715 AU	min. Earth dist.	5200 Sep 23 15:27	9° ≏ 20'47	0.59658 AU
inferior conj	5199 Oct 15 15:38	24° ₽ 07'21	-3°53'27	inferior conj	5200 Sep 26 21:17	6° ≏ 48'13	-4°45'05
minimum elong	5199 Oct 15 21:52	23° ≙ 53'19	3°51'39	minimum elong	5200 Sep 27 03:00	6° ≙ 36'57	4°44'02
morning rise	5199 Oct 22 22:01	19° ≙ 08'53		morning rise	5200 Oct 04 14:42	2° ≙ 11'39	
direct	5199 Oct 25 05:41	18° ≙ 46′02		direct	5200 Oct 06 22:54	1° ≙ 51'56	
asc. node	5199 Oct 28 12:38	19° ≙ 33'45		asc. node	5200 Oct 14 09:41	5° ≏ 23'02	
morning max el	5199 Nov 01 05:01	22° ₽ 17'04	17°53'46	morning max el	5200 Oct 14 15:51	5° ≙ 37'41	18°16'38
	5199 Nov 07 04:12	0°M₊			5200 Oct 30 01:34	0° M	
morning set	5199 Nov 17 00:13	17°M03'25		morning set	5200 Oct 30 12:43	0°M52'51	
	5199 Nov 24 04:55	0°⊀					
				superior conj	5200 Nov 08 20:01	18°ML19′28	1°12'33
superior conj	5199 Nov 27 15:38	6° ₰ 01'22	0°43'09	minimum elong	5200 Nov 08 23:51	18°M36'57	1°12'05
minimum elong	5199 Nov 27 19:06	6° ≯ 16′20	0°42'40		5200 Nov 15 10:12	0° ∡ ¹	
desc. node	5199 Dec 03 20:24	16° ≯ 29'32		max. Earth dist.	5200 Nov 16 10:08	1° ∡ ¹42'27	1.40958 AU
max. Earth dist.	5199 Dec 05 01:01	18° ≯ 27'14	1.42853 AU	desc. node	5200 Nov 19 17:28	7° ∡ 15'44	
evening rise	5199 Dec 11 18:20	29° ҂ 13'52		evening rise	5200 Nov 21 03:37	9° ∡ 36'17	
	5199 Dec 12 06:06	0°る			5200 Dec 04 06:57	0°₹	
	5200 Jan 01 13:28	0° ≈		evening max el	5200 Dec 25 08:16	27° る 21'24	23°15'24
evening max el	5200 Jan 12 16:33	13° ≈ 42'50	21°56'14		5200 Dec 28 05:15	0° ≈	
retrograde	5200 Jan 21 23:37	19° ≈ 14'18		retrograde	5201 Jan 04 18:07	3°≈31'02	
asc. node	5200 Jan 24 11:55	18° ≈ 40'45		evening set	5201 Jan 09 16:33	1°≈28'55	
evening set	5200 Jan 26 09:53	17° ≈ 27'53		asc. node	5201 Jan 10 08:56	0°≈52'11	
inferior conj	5200 Jan 31 18:03	11° ≈ 08'41	2°14'26		5201 Jan 11 05:26	30°Rる	
minimum elong	5200 Jan 31 15:42	11°≈16'53	2°13'43	min. Earth dist.	5201 Jan 14 15:52	25°₹39'22	0.68087 AU
min. Earth dist.	5200 Jan 31 19:04	11°≈05'09	0.68066 AU	inferior conj	5201 Jan 15 02:06	25°る04'09	1°31'57
morning rise	5200 Feb 05 21:20	4°≈57'23		minimum elong	5201 Jan 15 00:12	25° る 10'43	1°31'15
direct	5200 Feb 10 18:38	2°≈52'11	22225-5	morning rise	5201 Jan 20 07:45	18°る57'09	
morning max el	5200 Feb 20 12:39	8° ≈ 37'53	22°37'25	direct	5201 Jan 24 14:48	17° る 14'48	

morning max el	5201 Feb 02 03:55	22° る 11'46	21°13'34		5202 Feb 02 22:02	0° ≈	
	5201 Feb 08 19:55	0° ≈		morning set	5202 Feb 12 00:03	13°≈50′23	
desc. node	5201 Feb 15 16:41	9°≈24'12			5202 Feb 22 07:38	0°) (
	5201 Mar 01 12:15	0°) (max. Earth dist.	5202 Feb 22 20:08	0°) (49′48	1.44016 AU
morning set	5201 Mar 05 03:09	5°) €38'52	1 42202 ATT		5202 F 1 20 07 22	001/26110	2006142
max. Earth dist.	5201 Mar 12 10:13	17°) €21'40	1.42383 AU	superior conj	5202 Feb 28 06:33	9° ∺ 36'10 9° ∺ 23'09	
avmariar aani	5201 Mar. 10, 17:27	29°) (36'46	2006150	minimum elong	5202 Feb 28 03:22 5202 Mar 12 10:25	9° π 23'09' 0° Υ	2 06 36
superior conj minimum elong	5201 Mar 19 17:37 5201 Mar 19 20:03	29 X 30 40 29° X 47'13		evening rise	5202 Mar 12 10.23 5202 Mar 13 08:33	0 γ 1° Υ 34'58	
minimum clong	5201 Mar 19 20:03 5201 Mar 19 23:02	29 Λ 4/13	2 00 33	asc. node	5202 Mar 26 05:15	1 + 34 38 $22^{\circ} \Upsilon 52'23$	
evening rise	5201 Mar 31 02:46	0 γ 19° Υ 45'11		evening max el	5202 Mar 31 05:50	22 γ 32 23 29° γ 09'51	18°10'29
evening rise	5201 Apr 05 20:04	0° 8		evening max er	5202 Apr 01 03:10	0° 8	10 10 2)
asc. node	5201 Apr 08 08:14	4° 8 18'11		retrograde	5202 Apr 06 15:51	2° 8 32'54	
evening max el	5201 Apr 16 17:02	15° 8 55'07	18°07'40	evening set	5202 Apr 09 12:42	1° 8 50'28	
retrograde	5201 Apr 23 09:32	19° 8 19'27	10 07 10	evening sec	5202 Apr 12 05:42	30°RY	
evening set	5201 Apr 26 00:10	18° 8 48'36		inferior conj	5202 Apr 15 16:10	26° Υ 35'33	3°24'49
inferior conj	5201 May 02 16:28		2°56'10	minimum elong	5202 Apr 15 17:39	26° Ƴ 31'34	
minimum elong	5201 May 02 19:28	13° 8 46'15	2°55'34	min. Earth dist.	5202 Apr 18 09:44	23° Y 39'53	0.62875 AU
min. Earth dist.	5201 May 05 22:21	10° 8 50'01	0.60741 AU	morning rise	5202 Apr 21 21:19	20° Ƴ 29'29	
morning rise	5201 May 09 12:35	8° 8 00'30		direct	5202 Apr 28 17:44	17° Y 53'36	
desc. node	5201 May 14 15:57	5° 8 56'34		desc. node	5202 May 01 12:57	18° Ƴ 17'07	
direct	5201 May 16 04:17	5° 8 49'55		morning max el	5202 May 12 17:44	25° Ƴ 53'45	27°49'53
morning max el	5201 May 30 10:52	13° 8 45'50	27°46'42		5202 May 16 12:50	8° 0	
	5201 Jun 12 10:47	$\Pi^{\circ}0$			5202 Jun 05 23:37	$\Pi^{\circ}0$	
	5201 Jun 29 17:06	0 \circ \odot		morning set	5202 Jun 15 22:49	18° Ⅱ 44'14	
morning set	5201 Jul 01 23:26	4° 5 36'23			5202 Jun 21 08:49	0 \circ \odot	
asc. node	5201 Jul 05 07:30	11° © 38'26		max. Earth dist.	5202 Jun 21 07:37	29° ∏ 53′36	1.32571 AU
max. Earth dist.	5201 Jul 08 01:27	17° 5 36'18	1.32036 AU	asc. node	5202 Jun 22 04:32	1°5945'40	
superior conj	5201 Jul 09 06:06	20° © 13'32	0°40'08	superior conj	5202 Jun 23 14:34	4° 5 49'24	0°14'44
minimum elong	5201 Jul 09 04:25	20° 5 04'16	0°39'47	minimum elong	5202 Jun 23 13:52	4° 5 45'36	0°14'35
	5201 Jul 13 16:52	0 $^{\circ}\Omega$		behind sun begin	5202 Jun 23 11:45	4° © 34'03	
evening rise	5201 Jul 16 01:31	5° Ω 05'33		behind sun end	5202 Jun 23 16:00	4° © 57'09	
	5201 Jul 29 04:29	0° m		evening rise	5202 Jun 30 13:18	19° © 52'23	
desc. node	5201 Aug 10 15:15	16° m 34'14			5202 Jul 05 11:30	0°N	
evening max el	5201 Aug 11 19:42		25°15'30	evening max el	5202 Jul 24 08:17	28° Ω 12'40	23°41'34
retrograde	5201 Aug 25 18:06	24° Mp 47'47			5202 Jul 26 07:41	0° m/y	
evening set	5201 Aug 31 11:49	23° m/32'14	0.57644.411	desc. node	5202 Jul 28 12:14	1° Mp 41'17	
min. Earth dist.	5201 Sep 05 07:20	•	0.57644 AU	retrograde	5202 Aug 06 23:48 5202 Aug 11 06:46	5° Mp 03'50	
inferior conj minimum elong	5201 Sep 08 07:58 5201 Sep 08 10:04	18° Mp 47'52 18° Mp 44'17		evening set min. Earth dist.	5202 Aug 17 06:46 5202 Aug 17 18:13	4° Mp 23'21	0.55966 AU
morning rise	5201 Sep 16 10:36	14° Mp 34'16	3 13 17	inferior conj	5202 Aug 17 18:13 5202 Aug 19 22:23	0° Mp 00'42	
direct	5201 Sep 18 23:08	14° Mp 15'17		minimum elong	5202 Aug 19 22:23 5202 Aug 19 18:08	0° m) 07'07	
morning max el	5201 Sep 18 23:08 5201 Sep 27 18:28	18° Mp 25'36	19°00'33	minimum clong	5202 Aug 19 16:06 5202 Aug 19 22:51	30°RΩ	3 07 47
asc. node	5201 Oct 01 06:44	22° m) 22'24	17 00 33	morning rise	5202 Aug 28 07:58	26° Ω 05'43	
use. Houe	5201 Oct 06 08:23	0ಂ ರ		direct	5202 Aug 31 03:39	25° Ω 45'50	
morning set	5201 Oct 14 10:57	15° ≏ 09'18			5202 Sep 09 19:49	0° m/	
8	5201 Oct 22 00:06	0°M		morning max el	5202 Sep 10 10:04	0°m/32'18	20°06'26
				asc. node	5202 Sep 18 03:46	10° Mp 17'16	
superior conj	5201 Oct 22 19:16	1°M32'14	1°31'34	morning set	5202 Sep 28 15:44	29° m 43'57	
minimum elong	5201 Oct 22 22:00	1°M45'21		-	5202 Sep 28 18:53	0∘ ⊽	
max. Earth dist.	5201 Oct 29 15:38	14°M15'35	1.38856 AU				
evening rise	5201 Nov 02 11:37	20°M59'53		superior conj	5202 Oct 06 08:20	15° ≙ 25′28	1°41'21
desc. node	5201 Nov 06 14:30	27°M56'38		minimum elong	5202 Oct 06 09:30	15° ≏ 31'22	1°41'19
	5201 Nov 07 20:37	0°⊀		max. Earth dist.	5202 Oct 11 21:25	26° ≏ 16′24	1.36802 AU
	5201 Nov 28 08:14	8°0			5202 Oct 13 21:03	0° M	
evening max el	5201 Dec 07 21:31	11° る 03'24	24°34'26	evening rise	5202 Oct 15 17:02	3°M21'56	
retrograde	5201 Dec 19 08:51	17° る 45'09		desc. node	5202 Oct 24 11:31	18°M28'01	
evening set	5201 Dec 24 20:34	15° る 27'53			5202 Oct 31 21:03	0°⊀	
asc. node	5201 Dec 28 05:57	11° ठ 48'30		evening max el	5202 Nov 20 09:59	24° ∡ °46'43	25°46'19
min. Earth dist.	5201 Dec 29 11:34	10°る12'19	0.67736 AU		5202 Nov 26 22:44	0°ಕ	
inferior conj	5201 Dec 30 08:47	9° ට 01'38		retrograde	5202 Dec 02 19:00	1°る51'12	
minimum elong	5201 Dec 30 07:46	9° る 05'01	0°42'16		5202 Dec 08 00:22	30°R.✓	
morning rise	5202 Jan 04 19:06	3° る 00'54		evening set	5202 Dec 08 20:14	29° ₹ 21'04	
direct	5202 Jan 08 12:58	1°る40'34	•	min. Earth dist.	5202 Dec 13 03:56		0.67025 AU
morning max el	5202 Jan 16 02:56	5° る 57'59	20°01'09	inferior conj	5202 Dec 14 12:16	22° 🖈 57'59	
desc. node	5202 Feb 02 13:44	29° る 28'51		minimum elong	5202 Dec 14 12:35	22° ≯ 56'57	U~12'24

transit middle	5202 Dec 14 12:35	22° ∡ 56′57	0°12'24	min. Earth dist.	5203 Nov 26 14:45	8° √ 759'14	0.65962 AU
transit begin	5202 Dec 14 10:47	23°×702'41	0 12 24	inferior conj	5203 Nov 28 10:36	6° × ⁷ 49'57	
transit end	5202 Dec 14 14:24	22° х 51'13		minimum elong	5203 Nov 28 12:39	6° х 43′57	
asc. node	5202 Dec 15 02:59	22° ∡ 11'36		asc. node	5203 Dec 02 00:02	2° ≯ 58'53	
morning rise	5202 Dec 20 05:23	17° ∡ 05'38		morning rise	5203 Dec 04 12:28	1° ∡ 08′29	
direct	5202 Dec 23 11:40	16° ₹ 04'34		direct	5203 Dec 07 09:13	0° ∡ ¹22'55	
morning max el	5202 Dec 30 09:43	19° ∡ 54'16	19°03'19	morning max el	5203 Dec 13 22:34	3° ₹ 55'52	18°21'34
	5203 Jan 07 09:41	0°ರ			5203 Dec 31 20:05	8°0	
desc. node	5203 Jan 20 10:45	19° る 50'34		morning set	5204 Jan 02 10:52	2° る 35'57	
morning set	5203 Jan 22 04:17	22° る 32'09		desc. node	5204 Jan 07 07:46	10° る 24'33	
	5203 Jan 26 23:14	0° ≈					
max. Earth dist.	5203 Feb 05 11:48	14° ≈ 54'13	1.45033 AU	superior conj	5204 Jan 17 23:01	27° る 14'00	-1°09'23
				minimum elong	5204 Jan 17 14:46	26° ප් 41'38	1°08'23
superior conj	5203 Feb 07 19:59	18° ≈ 35'36	-1°47'03	max. Earth dist.	5204 Jan 19 06:27	29° る 17'14	1.45332 AU
minimum elong	5203 Feb 07 11:16	18° ≈ 01'10	1°46'21		5204 Jan 19 17:21	0° ≈	
	5203 Feb 14 23:54	0°)		evening rise	5204 Feb 03 00:54	22° ≈ 25'40	
evening rise	5203 Feb 22 16:17	12° ∺ 27'49			5204 Feb 07 20:32	0° ∀	
	5203 Mar 05 11:32	0 ° $\mathbf{\Upsilon}$		greatest brilliancy	5204 Feb 13 15:47	9°) €02'50	-0.8m
asc. node	5203 Mar 13 02:16	10° Ƴ 46′22		evening max el	5204 Feb 26 03:07	26° ∺ 06′28	19°10'46
evening max el	5203 Mar 14 17:56	12° Y 35'08	18°31'52	asc. node	5204 Feb 27 23:18	27°) 48′32	
retrograde	5203 Mar 21 06:44	16° Ƴ 09'53			5204 Mar 03 06:19	0 ° \mathbf{Y}	
evening set	5203 Mar 24 09:52	15° Ƴ 14'59		retrograde	5204 Mar 04 02:36	0° Y 04'02	
inferior conj	5203 Mar 30 04:18	9° Ƴ 42'09	3°32'50		5204 Mar 04 22:38	30° ₹ ₩	
minimum elong	5203 Mar 30 04:11	9° Ƴ 42'29	3°32'49	evening set	5204 Mar 07 12:45	28° ¥ 55'45	
min. Earth dist.	5203 Apr 01 06:39	7° Y 12'35	0.64739 AU	inferior conj	5204 Mar 13 01:19	23°) €06'52	
morning rise	5203 Apr 04 21:50	3° Y 29'38		minimum elong	5204 Mar 12 23:58	23° 米 11′13	3°24'59
direct	5203 Apr 11 15:12	0° Y 40'56		min. Earth dist.	5204 Mar 14 12:19	21°) 14'43	0.66218 AU
desc. node	5203 Apr 18 09:59	2° Y 58'56		morning rise	5204 Mar 18 10:50	16° 米 52′09	
morning max el	5203 Apr 25 03:29	8° Ƴ 35'32	27°17'34	direct	5204 Mar 24 19:25	14° 米 03′57	
	5203 May 11 19:00	0° 8		desc. node	5204 Apr 04 07:01	19° ∺ 28'38	
	5203 May 29 07:54	0°II		morning max el	5204 Apr 06 13:24	21°) 38'58	26°16'47
morning set	5203 May 30 13:26	2° Ⅱ 22'45	1.00561.477		5204 Apr 13 20:01	0° Υ	
max. Earth dist.	5203 Jun 04 05:13	11° Ⅱ 42'14	1.33561 AU		5204 May 04 00:13	0° 8	
	5202 1 07 10 20	100 T 06/54	0012124	morning set	5204 May 12 15:41	15° 8 21'54	1 25024 ATT
superior conj	5203 Jun 07 18:29	19° Ⅱ 06'54		max. Earth dist.	5204 May 16 15:35	23° 8 00'03	1.35024 AU
minimum elong	5203 Jun 07 19:10	19° Ⅱ 10'35 18° Ⅱ 54'05	0°13′15		5204 May 20 04:06	Π °0	
behind sun begin behind sun end	5203 Jun 07 16:03 5203 Jun 07 22:17	18° Д 34'05 19° Д 27'05			5204 M 21 15-20	20∏£0!£€	0942104
		19° Ц 27'03 21° Ц 51'47		superior conj	5204 May 21 15:29	2°П59'56 3°П12'02	
asc. node	5203 Jun 09 01:33 5203 Jun 12 20:59	0°95		minimum elong asc. node	5204 May 21 17:51 5204 May 25 22:35	11° I I53'09	0 4237
evening rise	5203 Jun 15 00:20	0 € 4°€32'17		evening rise	5204 May 29 08:42	11 Ⅲ 53 09 18° Ⅲ 59'46	
evening rise	5203 Jun 28 22:10	4 3 32 17 0° Ω		evening risc	5204 Jun 03 21:07	0°99	
evening max el	5203 Jul	8° Ω 34'37	22°04'40	evening max el	5204 Jun 16 23:55		20°38'27
desc. node	5203 Jul 15 09:14	14° Ω 28'52	22 04 40	retrograde	5204 Jun 28 06:19	24°954'33	20 3027
retrograde	5203 Jul 18 17:56	14°Ω55'16		evening set	5204 Jun 30 07:21	24°5944'24	
evening set	5203 Jul 21 14:11	14° Ω 37'15		desc. node	5204 Jul 01 06:15	24°533'02	
min. Earth dist.	5203 Jul 30 04:16	10° Ω 55'38	0.54953 AU	inferior conj	5204 Jul 09 13:44	20°547'27	-2°26'46
inferior conj	5203 Jul 30 20:30	10° Ω 32'48		minimum elong	5204 Jul 09 06:58	20°557'09	
minimum elong	5203 Jul 30 11:47	10° Ω 45'03		min. Earth dist.	5204 Jul 10 15:34		0.54864 AU
morning rise	5203 Aug 08 11:04	6° Ω 42'38		morning rise	5204 Jul 18 05:58	16°5542'16	
direct	5203 Aug 11 16:20	6° Ω 19'36		direct	5204 Jul 22 01:47	16°9510'46	
morning max el	5203 Aug 23 13:35	11° Ω 53'06	21°32'55	morning max el	5204 Aug 04 07:14	22°533'34	23°13'46
asc. node	5203 Sep 05 00:49	28° Ω 54'37		C	5204 Aug 10 20:30	$0^{\circ}\Omega$	
	5203 Sep 05 15:28	0° m y		asc. node	5204 Aug 21 21:51	18° Ω 03'48	
morning set	5203 Sep 13 00:42	14° m/30'11		morning set	5204 Aug 27 11:54	29° Ω 21'58	
C	•	•		C	5204 Aug 27 19:06	0° m)	
superior conj	5203 Sep 20 07:08	29° m 47'14	1°43'17		-		
minimum elong	5203 Sep 20 06:50	29° m 45'42	1°43'18	superior conj	5204 Sep 03 12:29	14° m 27'14	1°38'36
-	5203 Sep 20 09:35	0∘ ⊽		minimum elong	5204 Sep 03 11:04	14° m 19'40	1°38'30
max. Earth dist.	5203 Sep 24 08:53	8° ≏ 08'07	1.35008 AU	max. Earth dist.	5204 Sep 06 05:11	20° m 11'22	1.33601 AU
evening rise	5203 Sep 28 16:01	16° ≙ 33'08			5204 Sep 10 23:59	0∘ ⊽	
	5203 Oct 06 01:59	0°M		evening rise	5204 Sep 11 04:21	0° ≙ 21'43	
desc. node	5203 Oct 11 08:31	8°M44'57		desc. node	5204 Sep 27 05:33	28° ≏ 40′08	
	5203 Oct 26 07:20	0° ∡ ¹			5204 Sep 28 02:24	0° M	
evening max el	5203 Nov 02 22:40	8° ∡ ¹26'55	26°43'41	evening max el	5204 Oct 15 11:08	21°M53'56	27°19'10
retrograde	5203 Nov 15 23:57	15° х 43′08		retrograde	5204 Oct 28 22:55	29°M12'13	
evening set	5203 Nov 22 13:40	13° ∡ 04'48		evening set	5204 Nov 04 22:24	26°M32'57	

page 57

min. Earth dist.	5204 Nov 08 17:43 5204 Nov 11 01:27 5204 Nov 11 05:24	23°M01'47 20°M31'45 20°M21'06		evening max el retrograde	5205 Sep 27 21:26 5205 Oct 11 15:06 5205 Oct 18 19:19	4°M54'51 12°M09'51 9°M39'24	27°26'08
minimum elong morning rise	5204 Nov 17 13:39	15°M04'09	2 14 03	evening set min. Earth dist.	5205 Oct 22 10:48	6° ™ 38'39	0.62833 AU
asc. node direct	5204 Nov 17 21:05 5204 Nov 20 03:14	14°M56'30 14°M30'07		inferior conj	5205 Oct 25 06:01 5205 Oct 25 11:40	3°M56'42 3°M43'03	
morning max el	5204 Nov 26 14:47	17°M55'38	17°56'43	minimum elong	5205 Oct 29 20:56	30°R <u>Ω</u>	3 10 30
morning max cr	5204 Dec 05 10:57	0° ⊼	17 30 43	morning rise	5205 Nov 01 05:39	28° ₽ 46'29	
morning set	5204 Dec 13 22:39	14° √ 06'09		direct	5205 Nov 03 14:44	28° ♀ 20'22	
S	5204 Dec 23 12:30	ರ°0		asc. node	5205 Nov 04 18:07	28° ≏ 26'32	
desc. node	5204 Dec 24 04:47	1° る 06'17			5205 Nov 08 05:19	0°M₊	
				morning max el	5205 Nov 10 07:27	1°M46'45	17°49'32
superior conj	5204 Dec 27 11:50	6° る 25'40		morning set	5205 Nov 26 10:14	26°M45'02	
minimum elong	5204 Dec 27 09:07	6° る 14'42	0°22'26		5205 Nov 28 06:27	0° ∡ ¹	
max. Earth dist.	5205 Jan 01 01:38	13° ප් 42'46	1.44894 AU			=	
	5205 Jan 11 12:24	0°≈ 1045124		superior conj	5205 Dec 08 00:38	16° × 48'37	0°21'27
evening rise	5205 Jan 12 15:46 5205 Jan 27 06:39	1°≈45'24	0.6	minimum elong desc. node	5205 Dec 08 02:43 5205 Dec 11 01:50	16° ₹ 57'19 21° ₹ 52'32	0°21'10
greatest brilliancy	5205 Jan 27 06:39 5205 Jan 31 13:11	23°≈52'22 0°¥	-0.6m	max. Earth dist.	5205 Dec 11 01:30 5205 Dec 14 18:35	21° x '52'32 27° x '53'47	1.43769 AU
evening max el	5205 Feb 08 07:39	9°) 40′06	20°05'27	max. Earth dist.	5205 Dec 16 02:01	2/ス334/ 0°る	1.43709 AO
asc. node	5205 Feb 13 20:21	13°) 44'19	20 03 27	evening rise	5205 Dec 10 02:01 5205 Dec 23 02:20	00 11° る 01'46	
retrograde	5205 Feb 16 00:35	14°) (09'33			5206 Jan 04 16:25	0° ≈	
evening set	5205 Feb 19 18:59	12°) 46′59		evening max el	5206 Jan 22 06:40	23° ≈ 14'47	21°13'00
inferior conj	5205 Feb 25 04:16	6°){ 44′09	3°05'14	retrograde	5206 Jan 30 22:34	28° ≈ 22'37	
minimum elong	5205 Feb 25 02:09	6° ∺ 51'19	3°04'50	asc. node	5206 Jan 31 17:24	28° ≈ 19′19	
min. Earth dist.	5205 Feb 26 00:58	5°) (34′24	0.67267 AU	evening set	5206 Feb 04 02:42	26° ≈ 44'52	
morning rise	5205 Mar 02 09:05	0° ∺ 29'39		inferior conj	5206 Feb 09 10:46	20° ≈ 30'41	2°35'27
	5205 Mar 02 22:48	30°R ≈		minimum elong	5206 Feb 09 08:21	20° ≈ 39'01	2°34'48
direct	5205 Mar 08 05:10	27°≈53'06		min. Earth dist.	5206 Feb 09 18:33	20°≈03'45	0.67895 AU
	5205 Mar 14 04:03	0°) 4°) 53′21	24957104	morning rise	5206 Feb 14 13:51	14°≈17'58	
morning max el desc. node	5205 Mar 19 22:14 5205 Mar 22 04:02	7°) 16'00	24-37-04	direct morning max el	5206 Feb 19 19:34 5206 Mar 02 07:07	12°≈00'21 18°≈14'19	23°28'31
desc. node	5205 Apr 08 05:53	0°Υ		desc. node	5206 Mar 09 01:04	25°≈59'00	23 26 31
morning set	5205 Apr 25 00:46	27° Υ 28'10		dese. Hode	5206 Mar 12 03:27	0° ∺	
	5205 Apr 26 10:38	0°8			5206 Apr 01 08:33	0° Υ	
max. Earth dist.	5205 Apr 28 15:42	4° 8 02'19	1.36909 AU	morning set	5206 Apr 06 10:43	8° Y 25′12	
				max. Earth dist.	5206 Apr 10 11:18	15° Y 20'33	1.39066 AU
superior conj	5205 May 05 02:39	16° 8 20'36	-1°12'38				
minimum elong	5205 May 05 06:40	16° 8 40'18	1°12'00	superior conj	5206 Apr 18 00:02	28° Y 58′09	
	5205 May 11 22:38	Π °0		minimum elong	5206 Apr 18 05:03	29° Y 21'34	1°39'00
asc. node	5205 May 12 19:38	1° ∏ 45'49			5206 Apr 18 13:16	0°8	
evening rise	5205 May 13 12:04	3° ∏ 08′23		evening rise	5206 Apr 27 07:37	16° 8 49'39	
evening max el	5205 May 29 16:24 5205 May 30 13:21	0° ഇ 53'31	19°30'15	asc. node	5206 Apr 29 16:41 5206 May 04 08:22	21° 8 24'24 0° Ⅱ	
retrograde	5205 Jun 09 01:59	5°932'47	19 30 13	evening max el	5206 May 13 13:36	13° Ⅱ 03'34	18°42'17
evening set	5205 Jun 11 00:29	5° © 22'05		retrograde	5206 May 21 14:57	17° Ⅱ 01'31	10 42 17
desc. node	5205 Jun 18 03:17	2° © 15'40		evening set	5206 May 23 18:40	16° Ⅱ 45'31	
inferior conj	5205 Jun 19 16:40	1° © 16'45	-0°27'54	inferior conj	5206 May 31 15:01	12° Ⅲ 22'22	1°15'03
minimum elong	5205 Jun 19 15:26	1° 5 018'44	0°27'27	minimum elong	5206 May 31 17:39	12° Ⅲ 17'27	1°14'10
	5205 Jun 21 16:38	30°Ŗ Ⅱ		min. Earth dist.	5206 Jun 03 21:57	9° Ⅱ 56′01	0.57373 AU
min. Earth dist.	5205 Jun 22 05:00	29° Ⅱ 40'37	0.55734 AU	desc. node	5206 Jun 05 00:18	9° Ⅱ 10'33	
morning rise	5205 Jun 28 03:46	26° Ⅱ 40'19		morning rise	5206 Jun 08 13:21	7° Ⅱ 09'49	
direct	5205 Jul 02 19:56	25° ∏ 51'13		direct	5206 Jun 14 03:45	5° Ⅱ 52'27	
	5205 Jul 13 10:49	0°95	24956155	morning max el	5206 Jun 28 12:34	13° Ⅱ 24'56	26°26'25
morning max el	5205 Jul 16 20:45	2°≌54'47 0° Ω	24°56'55	asc. node	5206 Jul 11 15:01 5206 Jul 26 15:56	0°© 27°©25'52	
asc. node	5205 Aug 04 20:59 5205 Aug 08 18:54	0 δ ℓ 7° Ω 36'43		morning set	5206 Jul 27 10:19	27 3 23 32 29° 3 02'27	
morning set	5205 Aug 11 23:40	14° Ω 14'46		morning set	5206 Jul 27 21:10	0°Ω	
	-200 11ug 11 23.70	1.061440			2200041 2, 21.10	V 00	
superior conj	5205 Aug 18 21:58	29° Ω 18'12	1°28'14	superior conj	5206 Aug 03 09:27	14° Ω 12'30	1°12'55
minimum elong	5205 Aug 18 19:52	29° Ω 06'45	1°27'59	minimum elong	5206 Aug 03 07:09	13° Ω 59'46	1°12'32
-	5205 Aug 19 05:36	0° m		max. Earth dist.	5206 Aug 03 19:31	15° Ω 08'06	1.32064 AU
max. Earth dist.	5205 Aug 20 09:46	2°m/33'29	1.32622 AU	evening rise	5206 Aug 10 07:15	29° Ω 11′26	
evening rise	5205 Aug 26 02:27	14° m 37'47			5206 Aug 10 16:32	0° m	
	5205 Sep 03 01:18	0∘ ত			5206 Aug 27 06:19	0∘ ⊽	
desc. node	5205 Sep 14 02:36	18° Ω 04'30		desc. node	5206 Aug 31 23:37	6° ₽ 44'39	27000110
	5205 Sep 23 05:05	0° M ₊		evening max el	5206 Sep 10 02:43	17° £ 15′23	2/~00.18

Seming set \$366 Cut 0 00,000 22 22 46 174 175		5207 S 22 22-40	249 0 26122			5207 S 05 22.54	5° £ 54'53	
min fath dist 500 Cot 07 10.58 89.934 by 4 1704 min fath dist 507 Sep 18 1324 by 6 1904 0777 William minimentoning 500 Cot 07 50.08 164.9424 dy 1753 minimentoning 500 Cot 18 0316 by 1842 de 1920 170 Cot 18 0316 by 1842 de 1920 500 Cot 18 0316 by 1842 de 1920 170 Cot 18 0316 by 1842 de 1920 de 1	•				•			
inferior 500 Cot 03 00 57 674 274 1 479 274 inferior comp 507 Sep 19 18 374 99 19 20 5 99 18 20 5 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	=			0.60054.477	Č			0.50555.433
minimational organization of the processing state of th					min. Earth dist.	•		0.58/// AU
mommgrisqi S206 Cot 15 0812 1224 Mor25 minimum office 2975 Sep 7 16 2325 897 Mor35 478 Mor35 ase, node S206 Cot 21 1509 154 20275 direct 5207 Sep 7 16 08 09 24% Mor35 878 Mor35	3					•		
direct Spot Oct 2 12:548 High-Story 1 morning miner Spot Oct 2 12:239 15'90275 morning med 200 Oct 2 12:231 15'90275 morning med 200 Oct 2 12:231 15'90275 morning med 200 Oct 20 12:231 15'90275 morning med 200 Oct 00 12:168 28'9255 18'2255 18'2255 morning set 500 Nov 10 1500 10" Unit 12'85 morning set 200 Oct 10 16:15 0" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4"	•			4°15'31				
ase mode SJ06 Cot 22 150 1796-27756 office Assert SJ06 Cot 22 123 1592-2755 ommoring memoring max SJ07 Cot 10 00 1212 29°pha/488 8°2 24°pha/488 morning set SJ06 Nov 04 00 1508 16°Pha see, node SJ07 Cot 10 01 121 29°pha/488 8°2 24°pha/488 superior cordi SJ06 Nov 19 15-30 28°BLS00 0°505 S romining med SJ07 Cot 10 10 161 5°Pha/488 superior cordi SJ06 Nov 19 19-33 28°BLS00 0°505 S romining med SJ07 Nov 02 0444 17°PL172 12°129 max. Earth dist 2008 Nov 27 0684 11°F32742 14°085 AU max. Farth dist SJ07 Nov 02 0444 17°B2742 12°129 max. Earth dist 320°R Dec 30 000 20°Ph3/145 verning risc SJ07 Nov 02 0440 17°B2742 12°129 cevening mac 320°R Dec 30 000 20°Ph3/145 18°224 verning risc SJ07 Nov 02 0440 17°B274 12°129 recorgade 320°R Dec 30 000 20°Ph3/145 2°Ph3/145 2°Ph3/145 2°Ph3/145 2°Ph3/145 2°Ph3/145 2°Ph3/145	•				_		-	5°00'52
Monthing max Sob Coke 24 21,21 Sob Save 30 Sob Sav			11° ≏ 45'07		morning rise	•	24° m 53'10	
Solo No. 04 00.37 OFF Solo No. 04 00.37 OFF Solo No. 05 00 12 Solo No. 05 00 12 Solo No. 05 10 15 Solo No. 05	asc. node	5206 Oct 22 15:09	13° ≏ 27'56			5207 Sep 30 01:58	24° Mp 34'08	
moming set \$206 Nov 9 1504 \$0 mill 248 morning set \$207 Oct 9 1615 \$0 morning set \$207 Oct 2 40 605 \$24 61424 \$1 mill \$1 mill	morning max el	5206 Oct 24 21:23	15° ≏ 20'53	18°01'06	morning max el	5207 Oct 08 05:09	28° Mp 28'56	18°32'45
Superior Corp. \$206 Nov. 9 540 \$281,2200 05-055 \$507 Oct. \$2 05.00 \$0 \$0 \$0 \$0 \$0 \$0 \$0		5206 Nov 04 00:37	0° M		asc. node	5207 Oct 09 12:12	29° m 48'48	
Superior conj S206 Now 19 1540 28th 1540 075625	morning set	5206 Nov 09 15:08	10°M12'45			5207 Oct 09 16:15	0∘ ত	
minimal elong 500 kow 19 19-33 28°M-14510 0°5025 1000 1					morning set	5207 Oct 24 08:09	24° ≗ 14'24	
Max. Earth dist. \$006 Now 70 (12-34) 0"-2" Superior conj \$007 Now 90 (0.44) 11" 11" 11" 12" 14" 12	superior conj	5206 Nov 19 15:40	28°M28'00	0°56'55		5207 Oct 27 07:35	0° M	
Max. Earth dist	minimum elong	5206 Nov 19 19:33	28°M45'10	0°56'25				
max. Earth dist. 500 Now 27 (8-44) 11"R-32"42 1.42085 AU mainimum ellong 507 Now 20 (8-10) 11"R-27"4 12128 AU decs. node 5006 Now 27 (80-00) 2002 20",85145 max. Earth dist. 5007 Now 12 (19-00) 24"R-2753 1.40063 AI evening rise 5206 Dec 30 00-00 20",85145 evening rise 5207 Nov 12 (19-00) 29",75146 evening max of 5207 Jan 18 (18-15) 12"**says 32" evening max of 5207 Dec 20 (43)1 0"5",97172 evening set 5207 Jan 18 (18-12) 12"**says 32" evening max of 5207 Dec 20 (43)1 0"5",59740 evening set 5207 Jan 18 (18-12) 12"**says 32" evening max of 5207 Dec 20 (12-0) 26"*55538 evening set 5207 Jan 18 (18-12) 11"**says 32" evening set 5200 Jan 18 (18-12) 26"*55538 evening set 5207 Jan 18 (18-12) 11"**says 32" evening set 5200 Jan 18 (18-12) 26"*55788 evening set 5207 Jan 18 (18-12) 11"**says 32" evening set 5200 Jan 18 (18-12) 26"*59742 inferior conj 5207 Jan 18 (18-12) 4"**says 32" 6	Č	5206 Nov 20 12:34	0° ∡ ¹		superior conj	5207 Nov 02 04:41	11° M .11'12	1°21'49
desc. mode 500 No. 27 2254 12°87945 max. Earth dist. 5207 Nov 12 1903 24"R2753 1,4063 Al evening rise 5206 Dec 03 0002 20"75145 evening rise 5207 Nov 12 1903 0"7 12"80 Dec 08 2015 0"6"6 evening rise 5207 Nov 14 1955 3"24"94 evening max el 5207 Jan 05 031 6"86*112 22"2927 evening max el 5207 Dec 18 1444 20"53073 23"4929 evening max el 5207 Jan 18 1442 11"8-82328 evening max el 5207 Dec 18 1444 20"55037 23"4929 evening max el 5207 Jan 18 1444 11"8-82328 evening max el 5207 Dec 18 1444 20"55037 23"4929 evening max el 5207 Jan 24 1450 4"8-3141 1"56235 miniman class 5207 Jan 24 1450 4"8-3141 1"56235 miniman class 5207 Jan 24 1450 4"8-3142 1"56235 miniman class 5207 Jan 24 1450 4"8-3143 1"56235 miniman class 5207 Jan 24 1450 4"8-3143 1"56235 miniman class 5207 Jan 24 1450 4"8-31435 681240 1"115 1"115 <td< td=""><td>max. Earth dist.</td><td>5206 Nov 27 06:44</td><td>11°∡³32'42</td><td>1.42085 AU</td><td></td><td>5207 Nov 02 08:10</td><td>11°M27'24</td><td>1°21'28</td></td<>	max. Earth dist.	5206 Nov 27 06:44	11° ∡ ³32'42	1.42085 AU		5207 Nov 02 08:10	11° M 27'24	1°21'28
evening rise 5206 Dec 08 00.02 0 20°34145 evening rise 5207 Nov 12 18:03 0°F3 12°73918					Č			1.40063 AU
South Sou								
cerening max el 5207 los 30 073	e vennig rise				evening rise			
eventing max el 5207 Jan 0 S 0031 6°85/112 2°2927 evening max el 5207 Dec 18 1844 0°75 78					•			
Protection Pr	ovening may al			220227	uese. Houe			
Second S	•			22 29 21				22940120
evening set 5207 Jan 9 10,12 10%s4612 157720 asc. node 5208 Jan 3 15.55 24°\$54703 157720 asc. node 5208 Jan 52 11.66 22°\$5942 175720 asc. node 5208 Jan 52 11.66 22°\$5942 175720 asc. node 5208 Jan 50 11.66 22°\$5942 175720 175720 asc. node 5208 Jan 50 11.66 175720	•				Č			23-49-29
inferior conj 5207 Jan 24 18-86 4*≈2357 1°5720 asc. node 5208 Jan 05 11-26 22°55942 25°507 Jan 24 16-30 4*≈3141 1°5635 min. Earth dist. 5208 Jan 09 01-51 18°70144 0.6797 24 min. Earth dist. 5207 Jan 28 14-07 34°×3738 0.6812 AU minimum clong 5208 Jan 09 00.51 18°E2015 19°1115 morning rise 5207 Jan 28 04-07 33°C morning rise 5208 Jan 18 10.57 10°E4313 12°E1088 direct 5207 Feb 10 23:23 0°≈ morning max el 5207 Feb 10 23:23 0°≈ 20°044 morning max el 5207 Feb 10 23:23 0°≈ 20°044 5208 Feb 10 19:08 5°864107 0°8 20°3410 0°8 20°3410 0°8 20°3410 0°8 20°3410 0°8 20°3410 0°8 20°3410 0°8 20°4410 0°8 4°10 0°8 4°110 0°8 4°10 0°8 4°110 0°8 4°110 0°8 4°110 0°8 4°110 0°8 4°110 0°8 4°110 0°8 4°110 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-			
minimum elong \$207 Jan 24 16:33 4*83141 1°6315 min. Earth dist. \$200 Jan 24 16:35 4*83738 0.68120 AU inferior conj \$200 Jan 09 02:26 18*75071 11*14 0.67972 AU morning rise \$207 Jan 29 22:47 28*8*31425 morning rise \$208 Jan 09 02:06 18**752615 1*11*15 direct \$207 Feb 03 3:350 26**619*11 direct \$208 Jan 14 09:47 12**51608 1*11*15 morning max el \$207 Feb 10 23:23 0*2 morning max el \$208 Feb 10 23:33 15**62255 20*41*10 morning set \$207 Mar 06 01:45 0*H ***82213 1*18*20**10 1*20**20**3 0***8 ***1*20**3 0***8 **1*1*20**3 1*3*38**3 1*5**62255 20**41**10 ***1*20**3 0****8 ***1*1*10**3 1**1*1*20**3 0****8 ***1*1*10**3 1**1*1*10**3 ***1*1*20**3 1**1*1*20**3 0***1*1*10**3 0***2**3 0***1*1*10**3 0***1*1*10**3 0***1*1*10**3 0***1*1*20**3 0***1*1*10**3 0***1*1*10**3 0***1*1*10**3 0***1*10**3 0***2**1*20**3 0**	•				•			
min. Earth dist. 5207 Jan 24 14:50 4**æ3738 0.68120 AU inferior conj 5208 Jan 09 02:26 18**\$2075 Is 1°11′5 It morning rise 5207 Jan 28 04:07 30**Re morning rise 5208 Jan 14 09:37 10**Re 11°15 It direct 5207 Feb 03 13:50 20**G**B*911 direct 5208 Jan 18 10:57 10**G**B*911 morning max el 5207 Feb 12 19:13 1**æ4328 22*00*44 morning max el 5208 Jan 16 10:53 10**G**B*911 morning set 5207 Feb 12 19:13 1**æ4328 22*00*44 desc. node 5208 Feb 10 19:08 5**æ1407 morning set 5207 Mar 06 01:45 0**H morning set 5208 Feb 27 02:55 0**K** morning set 5207 Mar 23 09:30 27**H23*41 1.41235 AU max. Earth dist 5208 Mar 10 16:41 10**A*** 10**	·							
September Sep	minimum elong	5207 Jan 24 16:33	4° ≈ 31'41	1°56'35		5208 Jan 08 11:29		0.67972 AU
morning rise S207 Jan 29 22:47 S8°G14'25 morning rise S208 Jan 14 09:47 12°G16'08 morning max el S207 Feb 03 3150 26°G19'11 morning max el S207 Feb 12 3213 09°8 morning max el S208 Feb 12 3213 09°84 morning max el S208 Feb 12 3213 09°84 morning max el S208 Feb 12 1913 19°843'28 22°00'44 desc. node S208 Feb 10 1908 5°8*al'10'1 09°84 S208 Feb 10 1908 5°8*al'10'1 09°84 00°8	min. Earth dist.			0.68120 AU	inferior conj	5208 Jan 09 02:26		
direct 5207 Feb 10 13:50 26°S19′II direct 5208 Jan 18 10:57 10°S43′I 20°B Jan 18 10:57 20°B Jan 18 10:50 20°B Jan 18 10:50		5207 Jan 28 04:07	30°₽₹		minimum elong	5208 Jan 09 00:51	18° る 26'15	1°11'15
Momming max el \$207 Feb 10 23.23 0 0 1 1 200744 200744 2008 Feb 10 19.08 5 5 201741 1 200744 20174 20	morning rise	5207 Jan 29 22:47	28° る 14'25		morning rise	5208 Jan 14 09:47	12° る 16'08	
moming max el 5207 Feb 12 19-13 1° ∞43′28 2° 00′044 desc. node 5208 Feb 10 19-08 5° ∞4140 7 10-08 15° ∞42′21 10 10 10 10 10 10 10	direct	5207 Feb 03 13:50	26° る 19'11		direct	5208 Jan 18 10:57	10° る 43'31	
desc. node 5207 Feb 23 22.06 15°≈22'13 desc. node 5208 Feb 10 19.08 5°≈1407 Feb 23 207 Mar 16 0145 0°¾ morning set 5208 Feb 24 20.54 26°≈30'14 Feb 23 207 Mar 17 16.38 18°¥02'20 morning set 5208 Feb 24 20.54 26°≈30'14 Feb 23 207 Mar 24 20.09 27°¥23'4 1.41235 AU max. Earth dist. 5208 Mar 11 106.42 21°¾20'4 2°00'01 superior conj 5207 Mar 31 03.01 10°°Y4'149 −2°00'04 minimum elong 5208 Mar 11 106.42 21°¾20'4 2°00'01 minimum elong 5207 Mar 31 07:15 11°°Y0'03 1°59'48 superior conj 5207 Mar 31 07:15 11°Y0'03 1°59'48 superior conj 5207 Mar 31 07:15 11°Y0'03 1°59'48 superior conj 5208 Mar 11 06.42 21°¾20'4 2°00'01 minimum elong 5207 Mar 31 07:15 11°Y0'03 1°59'48 superior conj 5207 Mar 31 07:15 11°Y0'03 1°59'48 superior conj 5208 Mar 11 06.42 21°¾20'4 2°00'01 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19 42°%20'19		5207 Feb 10 23:23	0° ≈		morning max el	5208 Jan 26 13:38	15° る 22'55	20°41'10
S207 Mar 16 01.45 0°\(\) 1638 18°\(\) 16°\(\) 14°\(\) 14°\(\) 14°\(\) 14°\(\) 14°\(\) 18°\(\)	morning max el	5207 Feb 12 19:13	1° ≈ 43′28	22°00'44		5208 Feb 07 03:49	0° ≈	
morning set S207 Mar 17 16.38 18°\(\frac{\partial}{2}\) 2274 1.41235 AU max. Earth dist. S208 Mar 14:18 10°\(\frac{\partial}{2}\) 2276 1.41318 AU max. Earth dist. S208 Mar 14:18 10°\(\frac{\partial}{2}\) 2270 1.41318 AU superior conj S208 Mar 10 6:42 21°\(\frac{\partial}{2}\) 22719 2°0900 superior conj S207 Mar 31 03:01 10°\(\partial^{\partial}\) 11°\(\partial^{\partial}\) 11°\(\partial^{\partia	desc. node	5207 Feb 23 22:06	15° ≈ 22'13		desc. node	5208 Feb 10 19:08	5° ≈ 14'07	
morning set S207 Mar 17 16.38 18° \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\)		5207 Mar 06 01:45	0° ∀		morning set	5208 Feb 24 20:54	26° ≈ 30'14	
max. Earth dist. 5207 Mar 24 22:40 0°Υ o°Y superior conj 5208 Mar 14 12:18 10° χ2018 1.43138 AU superior conj 5207 Mar 24 22:40 0°Υ superior conj 5208 Mar 11 06:42 21° χ2014 -2°0070 superior conj 5207 Mar 31 03:01 10° γ41'49 -2°00704 minimum elong 5208 Mar 11 07:04 21° χ22'19 2°0070 evening rise 5207 Apr 10 16:53 29° γ5505 evening rise 5208 Mar 10 08:46 0°° γ evening rise 5207 Apr 10 16:56 0°B asc. node 5208 Apr 02 16:44 29° γ1'442 evening max el 5207 Apr 16 13:43 10° 843'43 evening max el 5208 Apr 02 16:36 0°B evening set 5207 May 30 32:245 29° 818'149 18°14'36 evening max el 5208 Apr 02 16:36 0°B evening set 5207 May 13 10:55 29° 818'149 18°14'36 evening set 5208 Apr 15 21:58 12° 81'55'2 evening set 5207 May 13 10:55 29° 818'149 2°27'03 minimum elong 5208 Apr 25 01:36 6° 834'54 3°11'11 mini. Earth dis	morning set	5207 Mar 17 16:38	18° ¥ 02′20		Č	5208 Feb 27 02:35	0° ₩	
Superior conj Superior con	•	5207 Mar 23 09:30		1.41235 AU	max. Earth dist.			1.43138 AU
superior conj 5207 Mar 31 03:01 10°°γ41'49 -2°00'004 minimum elong 5208 Mar 11 07:04 21°£20'44 -2°00'01 minimum elong 5208 Mar 11 07:04 21°£20'19 2°00'00 minimum elong 5208 Mar 11 07:04 21°£20'19 2°00'00 minimum elong 5208 Mar 10 10:04 21°£20'19 2°00'00 minimum elong 5208 Mar 10 10:04 21°£20'19 2°00'00 evening rise 5207 Apr 10 16:55 2°9°°75'05' evening rise 5208 Mar 20 08:34 12°°7'14'14' 2°00'03' 4°0'07'								
superior conj 5207 Mar 31 03:01 10°Ψ41'49 -2°00'04 minimum elong 5208 Mar 11 07:04 21°¥22'19 2°00'04 minimum elong 5207 Mar 31 07:15 11°PQ0'33 1°59'48 5208 Mar 16 08:46 0°Y 0°			•		superior coni	5208 Mar 11 06:42	21° ¥ 20'44	-2°09'01
## minimum elong \$207 Mar 31 07:15 \$11°\$\text{P0033} 1°5948 \$cvening rise \$208 Mar 16 08:46 \$0°\$\text{P}\$ \$cvening rise \$207 Apr 10 15:53 \$29°\$\text{P05505} \$cvening rise \$208 Mar 23 08:34 \$12°\$\text{P1442} \$cvening rise \$207 Apr 10 16:56 \$0°\$\text{B}\$ \$asc. node \$5208 Apr 02 10:44 \$29°\$\text{P3646} \$asc. node \$208 Apr 02 10:36 \$0°\$\text{B}\$ \$asc. node \$208 Apr 02 10:44 \$29°\$\text{P3646} \$asc. node \$208 Apr 02 10:45 \$29°\$\text{P3646} \$asc. node \$208 Apr 02 10:45 \$29°\$\text{P3646} \$asc. node \$208 Apr 15 21:58 \$12°\$\text{P36352} \$asc. node \$207 May 13 10:55 \$29°\$\text{P3646} \$asc. node \$208 Apr 15 21:58 \$12°\$\text{P36365} \$asc. node \$207 May 13 10:55 \$29°\$\text{P3646} \$asc. node \$207 May 13 14:22 \$24°\$\text{P360245} \$227703 \$minimum elong \$208 Apr 25 00:40 \$6°\$\text{P3651} \$31047 \$min. Earth dist. \$207 May 20 16:35 \$18°\$\text{P36458} \$asc. node \$207 May 22 11:19 \$10°\$\text{P36458} \$asc. node \$207 May 22 11:19 \$10°\$\text{P363653} \$asc. node \$207 May 27 01:15 \$16°\$\text{P363653} \$asc. node \$207 Jun 10 10:21 \$24°\$\text{P3741} \$27°\$\text{P3740} \$asc. node \$208 May 08 19:20 \$28°\$\text{P1234} \$asc. node \$207 Jul 11 18:10 \$13°\$\text{P363653} \$asc. node \$208 Jun 29 10:01 \$7°\$\text{P3320} \$asc. node \$207 Jul 11 18:10 \$13°\$\text{P363653} \$asc. node \$208 Jun 29 10:01 \$7°\$\text{P3320} \$asc. node \$207 Jul 18 06:48 \$27°\$\text{P374515} \$131923 AU \$asc. node \$207 Jul 18 06:48 \$27°\$\text{P374515} \$131923 AU \$asc. node \$207 Jul 19 07:13	superior coni	5207 Mar 31 03:01	10° ℃ 41'49	-2°00'04	1 3			
evening rise 5207 Apr 10 16:56 0°B evening rise 5208 Mar 23 08:34 12°Y14'42 Per 1/4'42 1/2°Y14'42 Per 1/4'42 Per 1/4'44					minimum ciong			2 07 00
Second	•			1 37 40	avanina rica			
Seconde Secondar Is Is Is Is Is Is Is I	evening rise	•			•			
evening max el 5207 Apr 26 21:26 25°846'09 18°14'36 evening max el 5208 Apr 19 09:22 8°851'49 18°06'33 a retrograde 5207 May 03 22:45 29°81'82' evening set 5208 Apr 15 21:58 12°81'352 evening set 5207 May 06 09:21 28°85'3'44 evening set 5208 Apr 18 15:13 11°83'823 11°83'823 evening set 5207 May 13 10:55 24°810'19 2°27'56 inferior conj 5208 Apr 25 01:36 6°83'4'54 3°11'11 minimum elong 5207 May 13 14:22 24°810'2'45 22°70'3 minimum elong 5208 Apr 25 04:01 6°828'51 3°10'47 min. Earth dist. 5207 May 16 20:40 21°81'3'05 0.5946' AU min. Earth dist. 5208 Apr 25 04:01 6°828'51 3°10'47 morning rise 5207 May 22 11:19 17°82'4'58 morning rise 5208 May 02 12:30 30°87' 40°83'5'16 40°80' 40°83'	1				asc. node	-		
retrograde		-	_	10014126				10006122
evening set 5207 May 06 92:1 28° 853'44 evening set 5208 Apr 18 15:13 11° 838'23 11' 11' 11' 11' 11' 11' 11' 11' 11' 1	•	•		18°14'36	•	-		18°06'33
inferior conj 5207 May 13 10:55 24°810'19 2°27'56 inferior conj 5208 Apr 25 01:36 6°8'34'54 3°11'11 minimum elong 5207 May 13 14:22 24°8'02'45 2°27'03 minimum elong 5208 Apr 25 04:01 6°8'28'51 3°10'47 min. Earth dist. 5207 May 16 20:40 21°8'13'05 0.59466 AU min. Earth dist. 5208 Apr 28 03:02 3°8'31'46 0.61673 AU morning rise 5207 May 20 16:35 18°8'28'45 morning rise 5208 May 01 14:59 0°8'35'16 desc. node 5207 May 22 21:19 17°8'24'58 5208 May 02 12:30 30°8'Y 12'12 12'08'08'16' 11'16'8'36'53 direct 5208 May 08 18:20 28°Y12'12 12'08'17'10' 10:21 24°8'27'41 27°27'40 desc. node 5208 May 08 18:20 28°Y12'13 6°8'11'44 27°52'33 10'47' 11'18'10' 10'41' 11'18'10' 13°33'9'50 morning max el 5208 May 08 18:20 28°Y12'13 11'18'10' 13°33'9'50 morning set 5207 Jul 18 18:10 13°33'9'50 morning set 5208 Jul 09 13:13 0° II 18:10 13°33'9'50 morning set 5208 Jul 09 13:13 0° II 18:10 13°33'9'50 morning set 5208 Jul 09 13:13 0° II 18:10 13°33'9'50 morning set 5208 Jul 09 13:13 0° II 18:10 13°33'9'50 morning set 5208 Jul 09 10:01 7°33'200 minimum elong 5207 Jul 18 19:06 28°35'10 0°52'49 max. Earth dist. 5208 Jul 09 10:01 7°33'200 max. Earth dist. 5207 Jul 18 06:48 27°34'51'5 1.31923 AU superior conj 5207 Jul 18 06:48 27°34'51'5 1.31923 AU superior conj 5207 Jul 18 06:48 27°34'51'5 1.31923 AU superior conj 5208 Jul 02 06:02 13°34'10'8 0°29'28 evening rise 5208 Jul 09 03:42 28°34'22 desc. node 5207 Aug 18 20:38 24°152'5 minimum elong 5208 Jul 09 03:42 28°34'22 desc. node 5207 Aug 18 20:38 24°152'56 minimum elong 5208 Jul 09 03:42 28°34'22 desc. node 5207 Aug 18 20:38 24°152'56 minimum elong 5208 Jul 09 03:42 28°34'22 desc. node 5207 Aug 23 00:44 28°14'26 26°01'41 5200'41 5208 Jul 09 18:07 0°Ω	•	•			•	•		
minimum elong 5207 May 13 1 4:22 24°802'45 2°27'03 minimum elong 5208 Apr 25 04:01 6°828'51 3°10'47 min. Earth dist. 5207 May 16 20:40 21°813'05 0.59466 AU min. Earth dist. 5208 Apr 28 03:02 3°831'46 0.61673 AU morning rise 5207 May 20 16:35 18°828'45 morning rise 5208 May 01 14:59 0°835'16 0.61673 AU desc. node 5207 May 22 21:19 17°824'58 direct 5208 May 02 12:30 30°R° direct 5207 May 27 01:15 16°836'53 direct 5208 May 08 09:50 28°°P12'12 morning max el 5207 Jun 10 10:21 24°827'41 27°27'40 desc. node 5208 May 08 18:20 28°°P12'13 morning set 5207 Jul 1 11 18:10 13°939'50 morning max el 5208 Jun 29 13:13 0°I superior conj 5207 Jul 1 18 21:09 29°99'904'28 0°53'13 asc. node 52	-	•	_		-	•		
min. Earth dist. 5207 May 16 20:40 21°813'05 0.59466 AU min. Earth dist. 5208 Apr 28 03:02 3°831'46 0.61673 AU morning rise 5207 May 20 16:35 18°828'45 morning rise 5208 May 01 14:59 0°835'16 0°835'16 desc. node 5207 May 27 01:15 16°836'53 direct 5208 May 08 09:50 28°Y12'12 28°Y12'12 morning max el 5207 Jun 10 10:21 24°827'41 27°27'40 desc. node 5208 May 08 18:20 28°Y12'13 28°Y12'13 5207 Jul 15 11:26 0°II morning max el 5207 Jul 18 18:10 13°839'50 morning max el 5208 May 14 17:03 0°8 28°Y12'134 asc. node 5207 Jul 11 18:10 13°839'50 morning set 5208 Jun 29 13:13 0°II 27°52'33 superior conj 5207 Jul 18 21:09 29°804'28 0°53'13 asc. node 5208 Jun 29 10:01 7°632'00 28°8100'41 minimum elong 5207 Jul 18 19:06'48 27°845'15 131923 AU superior conj 5208 Jul 02 07:21 13°848'21 0°29'44 evening rise 5	·	•			·	-		
morning rise S207 May 20 16:35 18°828'45 morning rise S208 May 01 14:59 0°835'16 desc. node S207 May 22 21:19 17°824'58 direct S208 May 02 12:30 30°R Y	•	•			•	•	_	
desc. node 5207 May 22 21:19 17° \(224\)*58		•		0.59466 AU		•		0.61673 AU
direct 5207 May 27 01:15 16°836'53 direct 5208 May 08 09:50 28°Υ12'12 28°Υ12'12 morning max el 5207 Jun 15 11:26 0°Π 5208 May 14 17:03 0°8 28°Υ12'13 0°8	morning rise	5207 May 20 16:35			morning rise	5208 May 01 14:59		
Morning max el S207 Jun 10 10:21 24°827'41 27°27'40 desc. node S208 May 08 18:20 28°¶'12'34 27°52'33 2207 Jul 12 11:26 0°¶ S207 Jul 13 12:51 0°© morning max el S208 May 14 17:03 0°8 S208 Jun 13 13 0°¶ S207 Jul 14 18:10 13°©39'50 morning set S208 Jun 24 21:18 28°¶00'41 S208 Jun 24 21:18 S20°¶00'41 S208 Jun S207 Jul	desc. node	5207 May 22 21:19	17° 8 24'58			5208 May 02 12:30	30° ŖƳ	
S207 Jun 15 11:26 0°	direct	5207 May 27 01:15	16° 8 36'53		direct	5208 May 08 09:50	28° Ƴ 12'12	
Morning set 5207 Jul 11 18:10 13°\$39'50 Morning max el 5208 Jun 09 13:13 0° Π asc. node 5207 Jul 13 12:59 17°\$25'55 Morning set 5208 Jun 24 21:18 28° Π00'41 superior conj 5207 Jul 18 21:09 29°\$04'28 0°53'13 asc. node 5208 Jun 29 10:01 7°\$32'00 minimum elong 5207 Jul 18 19:06 28°\$53'10 0°52'49 max. Earth dist. 5208 Jun 29 10:01 7°\$32'00 max. Earth dist. 5207 Jul 18 06:48 27°\$45'15 1.31923 AU evening rise 5207 Jul 19 07:13 0° Ω Superior conj 5208 Jul 02 07:21 13°\$48'21 0°29'44 evening rise 5207 Aug 02 17:40 0° Πρ evening rise 5208 Jul 09 03:42 28°\$43'22 evening max el 5207 Aug 23 00:44 28° Πρ47'26 26°01'41 5208 Jul 52	morning max el	5207 Jun 10 10:21	24° 8 27'41	27°27'40	desc. node	5208 May 08 18:20	28° Ƴ 12'34	
morning set 5207 Jul 11 18:10 13°\$39'50 morning set 5208 Jun 09 13:13 0°Π asc. node 5207 Jul 13 12:59 17°\$25'55 morning set 5208 Jun 24 21:18 28°Π00'41 5208 Jun 25 20:28 0°\$ superior conj 5207 Jul 18 21:09 29°\$04'28 0°53'13 asc. node 5208 Jun 29 10:01 7°\$32'00 minimum elong 5207 Jul 18 19:06 28°\$53'10 0°52'49 max. Earth dist. 5208 Jun 30 15:46 10°\$12'36 1.32204 AU max. Earth dist. 5207 Jul 18 06:48 27°\$45'15 1.31923 AU evening rise 5207 Jul 19 07:13 0°\$ Ω superior conj 5208 Jul 02 07:21 13°\$48'21 0°29'44 evening rise 5207 Aug 02 17:40 0°\$ m evening rise 5208 Jul 09 03:42 28°\$43'22 desc. node 5207 Aug 23 00:44 28°\$147'26 26°01'41 5208 Jul 26 13:22 0°\$ m		5207 Jun 15 11:26	$\Pi^{\circ}0$			5208 May 14 17:03	9° 8	
asc. node 5207 Jul 13 12:59 17°©25'55 morning set 5208 Jun 24 21:18 28°Π00'41 5208 Jun 25 20:28 0°© superior conj 5207 Jul 18 21:09 29°©04'28 0°53'13 asc. node 5208 Jun 29 10:01 7°©32'00 minimum elong 5207 Jul 18 19:06 28°©53'10 0°52'49 max. Earth dist. 5208 Jun 30 15:46 10°©12'36 1.32204 AU max. Earth dist. 5207 Jul 18 06:48 27°©45'15 1.31923 AU 5207 Jul 19 07:13 0°Ω superior conj 5208 Jul 02 07:21 13°©48'21 0°29'44 evening rise 5207 Jul 25 16:21 13°Ω55'28 minimum elong 5208 Jul 02 07:21 13°©48'21 0°29'44 evening rise 5207 Aug 02 17:40 0° m evening rise 5208 Jul 09 03:42 28°©43'22 desc. node 5207 Aug 18 20:38 24°m22'56 evening max el 5207 Aug 23 00:44 28°m47'26 26°01'41 5208 Jul 5208 J		5207 Jul 04 20:51	0 \circ \odot		morning max el	5208 May 22 14:13	6° 8 11'44	27°52'33
superior conj 5207 Jul 18 21:09 29°S04'28 0°53'13 asc. node 5208 Jun 25 20:28 0°S 1.32204 AI 1.32204 AI minimum elong 5207 Jul 18 19:06 28°S53'10 0°52'49 max. Earth dist. 5208 Jun 30 15:46 10°S12'36 1.32204 AI max. Earth dist. 5207 Jul 18 06:48 27°S45'15 1.31923 AU 5208 Jul 02 07:21 13°S48'21 0°29'44 evening rise 5207 Jul 19 07:13 0°Ω superior conj 5208 Jul 02 07:21 13°S48'21 0°29'44 evening rise 5207 Jul 25 16:21 13°Ω55'28 minimum elong 5208 Jul 02 06:02 13°S41'08 0°29'28 desc. node 5207 Aug 02 17:40 0° Mp evening rise 5208 Jul 09 03:42 28°S43'22 evening max el 5207 Aug 23 00:44 28°M24'26 26°01'41 5208 Jul 09 18:07 0° Mp	morning set	5207 Jul 11 18:10	13° © 39'50			5208 Jun 09 13:13	$\Pi^{\circ}0$	
superior conj 5207 Jul 18 21:09 29°S04'28 0°53'13 asc. node 5208 Jun 25 20:28 0°S 1.32204 AI 1.32204 AI minimum elong 5207 Jul 18 19:06 28°S53'10 0°52'49 max. Earth dist. 5208 Jun 30 15:46 10°S12'36 1.32204 AI max. Earth dist. 5207 Jul 18 06:48 27°S45'15 1.31923 AU 5208 Jul 02 07:21 13°S48'21 0°29'44 evening rise 5207 Jul 19 07:13 0°Ω superior conj 5208 Jul 02 07:21 13°S48'21 0°29'44 evening rise 5207 Jul 25 16:21 13°Ω55'28 minimum elong 5208 Jul 02 06:02 13°S41'08 0°29'28 desc. node 5207 Aug 02 17:40 0° Mp evening rise 5208 Jul 09 03:42 28°S43'22 evening max el 5207 Aug 23 00:44 28°M24'26 26°01'41 5208 Jul 09 18:07 0° Mp	asc. node	5207 Jul 13 12:59	17° © 25'55		morning set	5208 Jun 24 21:18	28° Ⅱ 00'41	
superior conj 5207 Jul 18 21:09 29°Φ04′28 0°53′13 asc. node 5208 Jun 29 10:01 7°Φ32′00 10°Φ12′36 1.32204 AU max. Earth dist. 5207 Jul 18 19:06 28°Ф53′10 0°52′49 max. Earth dist. 5208 Jun 30 15:46 10°Ф12′36 1.32204 AU max. Earth dist. 5207 Jul 19 07:13 0°Ω superior conj 5208 Jul 02 07:21 13°Φ48′21 0°29′44 evening rise 5207 Jul 25 16:21 13°Ω55′28 minimum elong 5208 Jul 02 06:02 13°Φ41′08 0°29′28 desc. node 5207 Aug 12 20:38 24°M22′56 evening rise 5208 Jul 09 03:42 28°Φ43′22 evening max el 5207 Aug 23 00:44 28°M24′26 26°01′41 5208 Jul 26 13:22 0°M					•	5208 Jun 25 20:28	0° ©	
minimum elong 5207 Jul 18 19:06 28°©53'10 0°52'49 max. Earth dist. 5208 Jun 30 15:46 10°©12'36 1.32204 AU max. Earth dist. 5207 Jul 18 06:48 27°©45'15 1.31923 AU 5207 Jul 19 07:13 0°Ω superior conj 5208 Jul 02 07:21 13°©48'21 0°29'44 evening rise 5207 Jul 25 16:21 13°Ω55'28 minimum elong 5208 Jul 02 06:02 13°©41'08 0°29'28 6207 Aug 02 17:40 0° Mp evening rise 5208 Jul 09 03:42 28°©43'22 evening max el 5207 Aug 23 00:44 28°M47'26 26°01'41 5208 Jul 26 13:22 0° Mp 18:07 0°Ω 18:07 0°Ω 18:07 0°Ω 18:	superior coni	5207 Jul 18 21:09	29°504'28	0°53'13	asc. node			
Max. Earth dist. 5207 Jul 18								1.32204 AU
Superior conj S208 Jul 02 07:21 13°S48'21 0°29'44 evening rise S207 Jul 25 16:21 13°Ω55'28 minimum elong S208 Jul 02 07:21 13°S48'21 0°29'28 S207 Aug 02 17:40 0° m/y evening rise S208 Jul 09 03:42 28°S43'22 desc. node S207 Aug 18 20:38 24°m/22'56 S208 Jul S208 Jul 09 18:07 0°Ω evening max el S207 Aug 23 00:44 28°m/47'26 26°01'41 S208 Jul 26 13:22 0°m/y Franch S208 Jul S2	•							
evening rise 5207 Jul 25 16:21 13° \$\Omega 55'28\$ minimum elong 5208 Jul 02 06:02 13° \$\Omega 41'08\$ 0°29'28 5207 Aug 02 17:40 0° \$\mathbb{m}\$ evening rise 5208 Jul 09 03:42 28° \$\Omega 43'22\$ desc. node 5207 Aug 18 20:38 24° \$\mathbb{m}\$22'56 evening max el 5207 Aug 23 00:44 28° \$\mathbb{m}\$47'26 26° 01'41 5208 Jul 26 13:22 0° \$\mathbb{m}\$	Durin dist.			1.51,25110	superior coni	5208 Jul 02 07:21	13003/18121	0°29'44
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	evening rice							
desc. node 5207 Aug 18 20:38 24° m/22'56 5208 Jul 09 18:07 0° Ω evening max el 5207 Aug 23 00:44 28° m/24'26 26°01'41 5208 Jul 26 13:22 0° m/2	evening 1150				Č			0 2720
evening max el 5207 Aug 23 00:44 28° Mp 47'26 26°01'41 5208 Jul 26 13:22 0° Mp	daga nada	•			evening rise			
		•		26901141				
5207 Aug 24 08:28 0°== evening max el 5208 Aug 03 15:48 9°1103453 24°37'02	evening max ei	-	-	20 0141	avanin 1			24927102
		5207 Aug 24 U8:28	0 34		evening max el	5206 Aug 05 15:48	y 11y 34°33	24 3/02

1 1	5200 4 04 17 27	100 m- 24147			5200 1 1 01 22 27	00.0	
desc. node	5208 Aug 04 17:37	10° mp 34'47			5209 Jul 01 23:27	0° Ω	22050152
retrograde	5208 Aug 17 12:59	16° Mp 34'55		evening max el	5209 Jul 16 04:32	19° Ω 57'08	22°59'52
evening set	5208 Aug 22 16:36	15° m 35'26		desc. node	5209 Jul 22 14:37	24° Ω 47'19	
min. Earth dist.	5208 Aug 28 03:04	12°Mp46'08	0.56862 AU	retrograde	5209 Jul 29 13:07	26° Ω 37'11	
inferior conj	5208 Aug 30 20:53	11°Mp00'20		evening set	5209 Aug 02 04:18	26° Ω 08'22	
minimum elong	5208 Aug 30 20:27	11° m 01'01	5°18'01	min. Earth dist.	5209 Aug 09 13:16	22° Ω 49'56	0.55436 AU
morning rise	5208 Sep 08 02:42	6° Mp 55′27		inferior conj	5209 Aug 11 03:31	21° Ω 54'41	
direct	5208 Sep 10 17:45	6° № 36′25		minimum elong	5209 Aug 10 20:44	22° Ω 04'30	4°49'00
morning max el	5208 Sep 20 03:27	11°Mp01'13	19°25'53	morning rise	5209 Aug 19 15:23	18° Ω 03'42	
asc. node	5208 Sep 25 09:15	17° m y 14'09		direct	5209 Aug 22 15:02	17° Ω 42'40	
	5208 Oct 02 23:15	0∘ ⊽		morning max el	5209 Sep 02 13:48	22° Ω 48'22	20°40'52
morning set	5208 Oct 07 09:32	8° ≏ 40'01			5209 Sep 08 16:46	0° m ⁄	
				asc. node	5209 Sep 12 06:18	5° m ,28'47	
superior conj	5208 Oct 15 10:24	24° ≙ 43'17	1°36'45	morning set	5209 Sep 21 16:24	23° Mp 20'42	
minimum elong	5208 Oct 15 12:29	24° ≙ 53'30	1°36'37		5209 Sep 24 21:28	0∘ ⊽	
	5208 Oct 18 03:53	0°M					
max. Earth dist.	5208 Oct 21 18:10	6°M44'13	1.37959 AU	superior conj	5209 Sep 29 04:03	8° ≏ 49'58	1°43'03
evening rise	5208 Oct 25 12:18	13° M 29'43		minimum elong	5209 Sep 29 04:34	8° ჲ 52'37	1°43'03
desc. node	5208 Oct 31 16:56	24°M01'58		max. Earth dist.	5209 Oct 04 02:07	18° ≏ 39'37	1.36003 AU
	5208 Nov 04 09:52	0° ∡ 7		evening rise	5209 Oct 08 01:46	26° ≙ 14'22	
	5208 Nov 26 03:47	0°ප			5209 Oct 10 03:03	0° M	
evening max el	5208 Nov 30 03:34	4°る14'19	25°06'24	desc. node	5209 Oct 18 13:56	14°M28'06	
retrograde	5208 Dec 12 00:58	11° ට 07'14			5209 Oct 28 20:36	0° ∡ ¹	
evening set	5208 Dec 17 18:18	8° る 44'24		evening max el	5209 Nov 12 16:20	17° ∡ 58′01	26°12'59
asc. node	5208 Dec 22 08:27	3° ප 35'54		retrograde	5209 Nov 25 08:47	25° ∡ 07'55	
min. Earth dist.	5208 Dec 22 06:11	3°₹43'14	0.67473 AU	evening set	5209 Dec 01 15:33	22° ∡ ³33'50	
inferior conj	5208 Dec 23 08:00	2°る18'49	0°19'57	min. Earth dist.	5209 Dec 05 20:29	18° ∡ ¹07'56	0.66620 AU
minimum elong	5208 Dec 23 07:31	2° る 20'26	0°19'45	inferior conj	5209 Dec 07 09:34	16° х 13′51	-0°37'28
	5208 Dec 25 03:33	30°R. ✓		minimum elong	5209 Dec 07 10:35	16° √ 10'45	
morning rise	5208 Dec 28 20:56	26° ₹ '21'04		asc. node	5209 Dec 09 05:30	14° ₹ 02'15	
direct	5209 Jan 01 09:40	25° × 09'14		morning rise	5209 Dec 13 06:10	10° ₹ 25'39	
morning max el	5209 Jan 08 15:57	29°×13'38	19°34'36	direct	5209 Dec 16 08:14	9° × 31'28	
morning max or	5209 Jan 09 09:59	0°중	17 3130	morning max el	5209 Dec 23 01:32	13° ₹ 12'30	18°43'31
greatest brilliancy	5209 Jan 21 16:59	0 ර 16° පි 27'11	-0.7m	morning max or	5210 Jan 04 09:37	0°궁	10 1331
desc. node	5209 Jan 27 16:10	25° පි 26'58	0.7111	morning set	5210 Jan 13 07:48	0 3 13° る 58'50	
desc. Hode	5209 Jan 30 15:32	23 ⊙ 2030		desc. node	5210 Jan 14 13:12	15° る 54'34	
morning set	5209 Feb 02 17:38	0 ∞ 4° ≈ 45'12		desc. node	5210 Jan 23 12:32	0°≈	
max. Earth dist.	5209 Feb 15 02:34	24°≈04'40	1.44535 AU	max. Earth dist.	5210 Jan 28 20:21	0 ~ 8° ≈ 21'00	1.45255 AU
max. Earm dist.	5209 Feb 18 19:47	24 ≈ 04 40	1.44333 AU	max. Earth dist.	3210 Jan 26 20.21	8 ≈2100	1.43233 AU
	3209 100 10 19.47	0 /		superior conj	5210 Jan 29 15:36	9° ≈ 36'30	1022154
superior conj	5209 Feb 19 08:53	0°) 52'35	2900151	minimum elong	5210 Jan 29 15:36 5210 Jan 29 06:09	9 ≈30 30 8°≈59'28	1°31'57
minimum elong	5209 Feb 19 08:53 5209 Feb 19 02:58	0° X 3233		minimum ciong		0° ∺	1 3137
U		23°)(40'26	2 00 32	avanina rica	5210 Feb 11 12:48 5210 Feb 14 03:01	0 X 4° ¥ 09'09	
evening rise	5209 Mar 05 05:17	23°π40′26 0°Υ		evening rise			0.0
	5209 Mar 08 23:26 5209 Mar 20 07:44	0 γ 17° Υ 55'24		greatest brilliancy	5210 Feb 21 10:40	15°) 54'07 0° °	-0.9m
asc. node		$17 + 33 \cdot 24$ 22° Y 12'23	10017124	1-	5210 Mar 02 17:13	5° Υ 29'19	
evening max el	5209 Mar 23 22:16	25° Y $38'31$	18°17'24	asc. node	5210 Mar 07 04:45	5° Υ 41'20	10046122
retrograde	5209 Mar 30 08:17	23 γ 38 31 24° γ 50'49		evening max el	5210 Mar 07 09:27 5210 Mar 14 01:42	9° Υ 24'14	18°46'23
evening set	5209 Apr 02 07:50	19° Υ 28'16	3°30'22	retrograde evening set		9 1 24 14 8° Υ 23'33	
inferior conj	5209 Apr 08 07:03 5209 Apr 08 07:50	19 γ 28 10 19° γ 26'04	3°30'19	•	5210 Mar 17 07:48	8 1 23 33 2° Υ 43'32	2021112
minimum elong	1	19 γ 20 04 16° Υ 41'50		inferior conj	5210 Mar 22 23:22	2 1 43 32 2°Υ45'40	3°31'11
min. Earth dist.	5209 Apr 10 18:23	13° Υ 19'04	0.63717 AU	minimum elong	5210 Mar 22 22:40	2 1 43 40 0° Υ 29'14	
morning rise	5209 Apr 14 06:51			min. Earth dist.	5210 Mar 24 19:01		0.65419 AU
direct	5209 Apr 21 03:02	10° Υ 35'53			5210 Mar 25 04:46	30° ₹ ₩	
desc. node	5209 Apr 25 15:22	11° Υ 37'11	27040102	morning rise	5210 Mar 28 13:05	26°) €29'56	
morning max el	5209 May 04 22:22	18° Ƴ 34'36	27°40'02	direct	5210 Apr 04 03:19	23°) (40'11	
	5209 May 14 13:24	0° B		desc. node	5210 Apr 12 12:24	27°) €09'26	
	5209 Jun 02 10:55	0° П			5210 Apr 15 20:37	0°Υ 1°W27I26	26054140
morning set	5209 Jun 08 17:19	11° II 57'11	1 22025 177	morning max el	5210 Apr 17 08:28	1° Y 27′26	26°54'48
max. Earth dist.	5209 Jun 13 18:36	22° I I18'23	1.32935 AU		5210 May 08 15:58	0°8	
asc. node	5209 Jun 16 07:02	27° Ⅱ 39'22		morning set	5210 May 23 03:13	25° 8 20'55	
					5210 May 25 12:40	0°П	
superior conj	5209 Jun 16 14:10	28° Ⅱ 17'38	0°03'06	max. Earth dist.	5210 May 27 11:57	3° Ⅱ 55′27	1.34131 AU
minimum elong	5209 Jun 16 14:01	28° Ⅱ 16'47	0°03'04				
behind sun begin	5209 Jun 16 08:45	27° Ⅱ 48'33		superior conj	5210 May 31 15:31	12° Ⅱ 26′21	
behind sun end	5209 Jun 16 19:16	28° ∏ 45′03		minimum elong	5210 May 31 16:54	12° Ⅲ 33'33	0°25'34
_	5209 Jun 17 09:12	0°50		asc. node	5210 Jun 03 04:04	17° Ⅱ 44'31	
evening rise	5209 Jun 23 15:25	13° © 28'22		evening rise	5210 Jun 08 01:38	28° Ⅱ 04'45	

	5210 Jun 08 23:48	0°ಅ			5211 May 17 06:53	п°0	
	5210 Jun 27 11:50	0°Ω		asc. node	5211 May 17 00:35 5211 May 21 01:06	7° Ⅱ 42'36	
evening max el	5210 Jun 27 22:55		21°26'03	evening rise	5211 May 23 08:11	12° I I25'08	
desc. node	5210 Jul 09 11:38	6° Ω 27'46	21 20 03	evening rise	5211 Jun 01 14:31	0°95	
retrograde	5210 Jul 10 03:25	6° Ω 28'47		evening max el	5211 Jun 10 04:54	11° © 32'26	20°06'58
evening set	5210 Jul 12 13:26	6°Ω15'23		retrograde	5211 Jun 20 17:41	16°9541'43	20 00 30
inferior conj	5210 Jul 21 21:49	2°Ω15'48	-3°30'29	evening set	5211 Jun 22 15:54	16°932'07	
minimum elong	5210 Jul 21 13:08	2° Ω 27'56		desc. node	5211 Jun 26 08:40	15° © 25'11	
min. Earth dist.	5210 Jul 21 23:19	2° Ω 13'41		inferior conj	5211 Jul 01 17:30	12° © 32'54	-1°36'10
mm. Bartii dist.	5210 Jul 26 03:59	30°Rூ	0.5 1002 110	minimum elong	5211 Jul 01 13:00		1°34'30
morning rise	5210 Jul 30 13:46	28° © 22'13		min. Earth dist.	5211 Jul 03 11:26	11°930'23	0.55123 AU
direct	5210 Aug 03 00:38	27°956'25		morning rise	5211 Jul 10 08:32	8°915'44	0.33123710
direct	5210 Aug 10 09:08	0°Ω		direct	5211 Jul 14 12:02	7° 9 38'21	
morning max el	5210 Aug 10 07:00 5210 Aug 15 12:33	3° Ω 50′24	22°14'35	morning max el	5211 Jul 28 03:49	14°9519'56	23058118
asc. node	5210 Aug 13 12:33 5210 Aug 30 03:22	24° Ω 21'03	22 1433	morning max ci	5211 Jul 28 03:49 5211 Aug 09 09:09	0°Ω	23 38 18
asc. nouc	5210 Aug 30 03:22 5210 Sep 02 02:27	0° m)		asc. node	5211 Aug 17 00:25	13° Ω 41'05	
morning set	5210 Sep 02 02:27	8° Mp 10'23		morning set	5211 Aug 17 00:23	23° Ω 03'18	
morning set	3210 Sep 00 02.33	6 III 1023		morning set	5211 Aug 24 19:52	0° m	
superior conj	5210 Sep 13 06:01	23° m 20'39	1°42'03		3211 Aug 24 19.32	עוו ט	
minimum elong	5210 Sep 13 05:12	23° Mp 16'21	1°42'01	superior conj	5211 Aug 28 13:25	8° Mp 06'24	1°34'51
minimum clong	5210 Sep 15 03:12 5210 Sep 16 10:32	0° <u>م</u>	1 42 01	minimum elong	5211 Aug 28 13:23 5211 Aug 28 11:40	7° Mp 56'54	1°34'42
max. Earth dist.	5210 Sep 16 17:30	0° - 235'49	1.34365 AU	max. Earth dist.	5211 Aug 30 17:27	12° Mp 46'23	1.33129 AU
evening rise	5210 Sep 10 17:30 5210 Sep 21 06:56	9° £ 42'42	1.54505 AO	evening rise	5211 Aug 30 17:27 5211 Sep 04 23:48	23° m 43'55	1.33129 AU
evening rise	5210 Sep 21 00:30 5210 Oct 02 14:19	9 ==42 42 0°M		evening rise	5211 Sep 04 25:48 5211 Sep 08 04:06	23 ال ا 43 33 0°	
desc. node	5210 Oct 02 14:19 5210 Oct 05 10:57	4°MJ36'43		desc. node	5211 Sep 08 04:00 5211 Sep 22 07:58	0 == 24° £ 20'12	
desc. Hode	5210 Oct 03 10:37	0° √		desc. Hode		0°M	
avanina may al	5210 Oct 24 15:13 5210 Oct 26 05:03		27°01'45	arranina may al	5211 Sep 26 05:18 5211 Oct 08 16:40	14°M50'38	27925151
evening max el			2/30145	evening max el			2/-25'51
retrograde	5210 Nov 08 11:04	8° 🗷 51'09		retrograde	5211 Oct 22 07:26	22°M08'37	
evening set	5210 Nov 15 05:35	6° ₹ 11'13	0.65412.411	evening set	5211 Oct 29 09:47	19°M31'23	0.62050 AII
min. Earth dist.	5210 Nov 19 04:04	2°×720'46		min. Earth dist.	5211 Nov 02 02:56	16°M14'12	0.63859 AU
inferior conj	5210 Nov 21 05:01	0° ₹ 01'48		inferior conj	5211 Nov 04 15:52	13°M37'26	
minimum elong	5210 Nov 21 07:51	29°M53'43	1°3/'52	minimum elong	5211 Nov 04 20:36	13°M25'14	2°40′53
i	5210 Nov 21 05:39	30°RM		morning rise	5211 Nov 11 08:54	8°M17'09	
asc. node	5210 Nov 26 02:34	25°M14'41		asc. node	5211 Nov 12 23:38	7°M50'40	
morning rise	5210 Nov 27 11:07	24°M26'03		direct	5211 Nov 13 20:08	7°M47'01	17051120
direct	5210 Nov 30 04:35	23°M45'48	10000155	morning max el	5211 Nov 20 09:06	11°M11'54	17°51'28
morning max el	5210 Dec 06 16:12	27°M14'06	18°08'55		5211 Dec 03 03:57	0° 🗖 42\25	
. ,	5210 Dec 09 03:19	0° ⊼ 7		morning set	5211 Dec 07 01:52	6° ₹ 42'35	
morning set	5210 Dec 25 03:07	24° ₹ 40'35		desc. node	5211 Dec 19 07:15	27° ⊀ 16'31	
desc. node	5210 Dec 28 09:21 5211 Jan 01 10:13	0°궁 6°궁32'14		avmariar aani	5211 Dec. 10, 19-26	28° ₹ 02'12	0902117
desc. node	3211 Jan 01 10.13	0 032 14		superior conj minimum elong	5211 Dec 19 18:26 5211 Dec 19 18:04	28° × 02 12 28° × 00'42	
gunariar agni	5211 Jan 08 20:16	18° る 21'53	0°50'00	behind sun begin	5211 Dec 19 18:04 5211 Dec 19 08:22	28 × 100 42 27° × 21'05	0 03 14
superior conj	5211 Jan 08 14:06	18 3 21 33		behind sun eegin	5211 Dec 19 08.22 5211 Dec 20 03:46	27 x ·21 03 28° x 40'14	
minimum elong max. Earth dist.	5211 Jan 11 15:57	17 3 3732 22° る 48'24		bennia sun ena	5211 Dec 20 03:46 5211 Dec 20 23:23	28 x·40 14 0°る	
max. Earm dist.	5211 Jan 16 06:13	22 ○ 46 24 0° ≈	1.43233 AU	max. Earth dist.	5211 Dec 25 10:13	7° る 08'59	1.44487 AU
evening rise	5211 Jan 25 02:56	0 ≈ 13°≈47'35		evening rise	5211 Dec 23 10:13 5212 Jan 04 14:02	7 30839 23° る 01'01	1.4446/ AU
evening rise	5211 Jan 23 02:30 5211 Feb 04 14:54	13 ≈ 4733		evening rise	5212 Jan 09 03:44	23 3 01 01 00 ∞	
greatest brilliancy	5211 Feb 04 14:34 5211 Feb 06 17:03	3° ₩ 09'55	-0.7m		5212 Jan 30 06:27	0 ≈ 0° H	
				arranina may al	5212 Feb 01 18:51	2° 	20022147
evening max el asc. node	5211 Feb 18 16:43 5211 Feb 22 01:49	19° ∺ 13'21 22° ∺ 05'02	19°32'14	evening max el asc. node	5212 Feb 01 18:51 5212 Feb 08 22:52	7°) €28'14	20 324/
retrograde	5211 Feb 22 01:49 5211 Feb 25 22:53	23° H 23'47		retrograde	5212 Feb 08 22:32 5212 Feb 09 21:12	7° X 32'53	
evening set	5211 Feb 23 22:33 5211 Mar 01 12:23	23 X 2347 22° X 09'26		evening set	5212 Feb 13 19:27	6° ∺ 04'05	
•		16° H 14'03	2010102	=		29°≈55'55	2052144
inferior conj	5211 Mar 06 23:14	16° X 14'03 16° X 19'45		inferior conj	5212 Feb 19 03:59	0° ∺ 03'48	
minimum elong	5211 Mar 06 21:30			minimum elong	5212 Feb 19 01:41		2-55-15
min. Earth dist.	5211 Mar 08 03:54	14° 米 39'51 9° 米 59'06	0.66709 AU	min. Earth dist.	5212 Feb 19 02:48	30°R≈ 29°≈04'23	0.67579 AU
morning rise	5211 Mar 12 06:21	9° X 59′06 7° X 15′01			5212 Feb 19 19:03		0.01319 AU
direct	5211 Mar 18 09:48			morning rise	5212 Feb 24 07:42	23°≈41'44	
desc. node	5211 Mar 30 09:27	14° 升 15'18 14° 升 37'12	25011116	direct	5212 Feb 29 21:42	21°≈12'31 27°≈54'57	24010152
morning max el	5211 Mar 30 18:11	14° π 3/12 0° Υ	44 40	morning max el	5212 Mar 12 02:52	2/°≈54'5/ 0°) €	24°19'52
	5211 Apr 12 07:50	0°8		daga mada	5212 Mar 14 02:15		
morning set	5211 May 01 11:31	7° 8 59'26		desc. node	5212 Mar 16 06:29	2° ∺ 28'38 0° Υ	
morning set max. Earth dist.	5211 May 05 22:51		1.35780 AU	morning sot	5212 Apr 05 00:43	19° Υ 38'10	
max. Earui üist.	5211 May 09 17:54	15° 8 05'07	1.33780 AU	morning set	5212 Apr 16 22:50	19° γ 38 10 26° Υ 08'07	1 27002 411
superior con:	5211 May 15 00.42	26° 8 06'19	0055144	max. Earth dist.	5212 Apr 20 14:50	0° 8	1.37802 AU
superior conj	5211 May 15 08:43	26° 8 21'54			5212 Apr 22 17:44	υ Ο	
minimum elong	5211 May 15 11:49	20 021 34	0 33 11				

superior conj	5212 Apr 27 14:29	9° 8 09'24	-1°24'35	minimum elong	5213 Apr 10 09:37	21° Y '48'04	1°48'52
minimum elong	5212 Apr 27 19:03	9° 8 31'23	1°23'56		5213 Apr 14 19:37	9° 8	
evening rise	5212 May 06 08:35	26° 8 22'34		evening rise	5213 Apr 19 23:44	9° 8 49'09	
asc. node	5212 May 06 22:08	27° 8 29'31		asc. node	5213 Apr 23 19:10	17° 8 00'26	
	5212 May 08 04:46	Π $^{\circ}0$			5213 May 01 10:54	Π $\circ 0$	
evening max el	5212 May 22 23:17	23° Ⅲ 20′12	19°07'22	evening max el	5213 May 06 03:17	5° Ⅱ 45'37	18°28'09
retrograde	5212 May 31 19:51	27° Ⅱ 40′05		retrograde	5213 May 13 16:46	9° Ⅲ 30′11	
evening set	5212 Jun 02 19:56	27° Ⅱ 27'43		evening set	5213 May 15 23:31	9° Ⅱ 10'47	
inferior conj	5212 Jun 11 03:57	23° Ⅱ 15'51	0°18'57	inferior conj	5213 May 23 11:32	4° Ⅲ 39'19	1°49'50
minimum elong	5212 Jun 11 04:44	23° Ⅱ 14'32	0°18'40	minimum elong	5213 May 23 14:51	4° Ⅲ 32'42	1°48'48
desc. node	5212 Jun 12 05:42	22° Ⅲ 31'46		min. Earth dist.	5213 May 26 21:33	1° Ⅱ 56'56	0.58228 AU
min. Earth dist.	5212 Jun 14 02:28	21° Ⅱ 16'17	0.56350 AU		5213 May 29 17:34	30° ₹8	
morning rise	5212 Jun 19 10:20	18° Ⅱ 23'24		desc. node	5213 May 30 02:43	29° 8 46'28	
direct	5212 Jun 24 12:06	17° Ⅲ 23'17		morning rise	5213 May 31 03:01	29° 8 13'30	
morning max el	5212 Jul 08 17:41	24° Ⅱ 41'33	25°37'34	direct	5213 Jun 06 02:17	27° 8 41'24	
	5212 Jul 13 15:12	0°©			5213 Jun 13 16:08	0°П	
_	5212 Aug 01 05:42	$0^{\circ}\Omega$		morning max el	5213 Jun 20 11:31	5° Ⅱ 22'40	26°56'34
asc. node	5212 Aug 02 21:26	3° Ω 21′20			5213 Jul 08 14:55	0° ©	
morning set	5212 Aug 05 01:41	7° Ω 54'13		morning set	5213 Jul 20 11:21	22°538'21	
		0		asc. node	5213 Jul 20 18:26	23° © 15'47	
superior conj	5212 Aug 11 23:58	22° £ 59'33	1°22'18		5213 Jul 23 21:39	0 $^{\circ}\Omega$	
minimum elong	5212 Aug 11 21:44	22° Ω 47'14			5010 X 1 05 11 16	70 0 52150	1005104
max. Earth dist.	5212 Aug 13 00:23	25° Ω 13'36	1.32328 AU	superior conj	5213 Jul 27 11:46	7° Ω 53'59	1°05'04
	5212 Aug 15 04:58	0° M)		minimum elong	5213 Jul 27 09:31	7° Ω 41'31	1°04'41
evening rise	5212 Aug 19 01:03	8° Mp 08'21		max. Earth dist.	5213 Jul 27 11:15	7° Ω 51'03	1.31953 AU
1 1	5212 Aug 30 14:06	0° ™		evening rise	5213 Aug 03 07:58	22° Ω 47'55	
desc. node	5212 Sep 08 05:00	13° £ 27'36	27910/22		5213 Aug 06 19:50	0° m)	
evening max el	5212 Sep 20 01:07	27° Ω 35'48	27°19'22	11-	5213 Aug 24 17:55	0° <u>ი</u>	
	5212 Sep 22 19:00	0°M		desc. node	5213 Aug 26 02:00	1° Ω 44'18	26920117
retrograde	5212 Oct 03 20:54 5212 Oct 11 00:33	4°M49'47 2°M26'39		evening max el	5213 Sep 02 03:46 5213 Sep 16 02:02	9° £ 37'32 16° £ 46'26	20 39 17
evening set	5212 Oct 11 00.33 5212 Oct 14 04:42	2 1162039 30°R Ω		retrograde evening set	5213 Sep 16 02.02 5213 Sep 22 21:21	16 2 46 26 14° 2 49'31	
min. Earth dist.	5212 Oct 14 04.42 5212 Oct 14 15:36	30 k== 29° Ω 36'09	0.62008 AU	min. Earth dist.	5213 Sep 26 17:37	14 2 49 31 12° 2 13'36	0.59973 AU
inferior conj	5212 Oct 14 15:36 5212 Oct 17 15:05	29 ⊆ 30 09 26° ⊆ 52'35		inferior conj	5213 Sep 20 17.37 5213 Sep 29 23:13	9° £ 38'22	
minimum elong	5212 Oct 17 13:03 5212 Oct 17 21:12	26° £ 32'33		minimum elong	5213 Sep 29 25:13 5213 Sep 30 05:11	9° £ 26'22	
morning rise	5212 Oct 17 21:12 5212 Oct 24 19:43	20 ⊆ 3631 21° ⊆ 50'54	3 42 43	morning rise	5213 Sep 30 05.11 5213 Oct 07 15:04	9 = 20 22 4° £ 58'18	4 3/00
direct	5212 Oct 27 13:45 5212 Oct 27 03:36	21° ⊆ 27'19		direct	5213 Oct 07 13:04 5213 Oct 09 23:03	4° £ 38'13	
asc. node	5212 Oct 27 05:30 5212 Oct 29 20:41	22° Ω 00′24		asc. node	5213 Oct 16 17:42	7° ≏ 37'17	
morning max el	5212 Oct 27 20:41 5212 Nov 03 01:02	24° £ 57'01	17°52'03	morning max el	5213 Oct 10 17:42 5213 Oct 17 12:41	8° ₽ 21'02	18°11'54
morning max er	5212 Nov 07 04:57	0°M	17 32 03	morning max cr	5213 Oct 17 12:41 5213 Oct 31 11:53	0°M	10 11 54
morning set	5212 Nov 18 21:34	19° M 44'22		morning set	5213 Nov 02 08:11	3°M28'19	
morning sec	5212 Nov 24 15:02	0° √		morning sec	32131101 02 00.11	3 1102019	
	32121101 21 13.02	• ,		superior conj	5213 Nov 11 19:39	21°M06'28	1°08'45
superior conj	5212 Nov 29 18:38	8° ∡ 758'25	0°37'44	minimum elong	5213 Nov 11 23:33	21°M24'07	1°08'18
minimum elong	5212 Nov 29 21:50	9° √ 12'06	0°37'18		5213 Nov 16 20:13	0° ₹ ¹	
desc. node	5212 Dec 05 04:17	18° ∡ 03'29		max. Earth dist.	5213 Nov 19 10:49	4° ≯ 728'04	1.41263 AU
max. Earth dist.	5212 Dec 07 00:52	21° ∡ ¹06'23	1.43109 AU	desc. node	5213 Nov 22 01:18	8° ∡ ¹49'44	
	5212 Dec 12 14:01	8°0		evening rise	5213 Nov 24 09:37	12° ∡ ′40'41	
evening rise	5212 Dec 14 03:37	2° ප 27'33		-	5213 Dec 05 12:41	0°రె	
	5213 Jan 01 15:42	0° ≈			5213 Dec 28 07:42	0° ≈	
evening max el	5213 Jan 14 15:34	16° ≈ 22'19	21°44'45	evening max el	5213 Dec 28 07:48	0° ≈ 00'15	23°03'25
retrograde	5213 Jan 23 18:36	21° ≈ 47′29		retrograde	5214 Jan 07 13:32	6° ≈ 04'16	
asc. node	5213 Jan 25 19:55	21° ≈ 24'58		evening set	5214 Jan 12 10:08	4° ≈ 04'23	
evening set	5213 Jan 28 03:14	20° ≈ 03′23		asc. node	5214 Jan 12 16:56	3° ≈ 49'45	
inferior conj	5213 Feb 02 11:21	13° ≈ 45′27	2°20'15		5214 Jan 16 02:19	30°Ŗ₹	
minimum elong	5213 Feb 02 08:57	13° ≈ 53'45	2°19'32	inferior conj	5214 Jan 17 19:25	27° る 40'12	1°38'53
min. Earth dist.	5213 Feb 02 14:07	13° ≈ 35′50	0.68041 AU	minimum elong	5214 Jan 17 17:24	27° る 47'08	1°38'09
morning rise	5213 Feb 07 14:30	7° ≈ 33'45		min. Earth dist.	5214 Jan 17 10:46	28° る 09'59	0.68112 AU
direct	5213 Feb 12 14:01	5° ≈ 25'08		morning rise	5214 Jan 23 00:34	21° る 32'35	
morning max el	5213 Feb 22 12:28	11° ≈ 18′03	22°50'27	direct	5214 Jan 27 09:41	19° る 46'54	
desc. node	5213 Mar 03 03:31	21° ≈ 30′03		morning max el	5214 Feb 05 02:46	24° る 50'27	21°25'26
	5213 Mar 09 08:31	0° ∀			5214 Feb 09 16:50	0° ≈	
morning set	5213 Mar 28 21:10	0° Υ 01′20		desc. node	5214 Feb 18 00:33	11° ≈ 06′18	
	5213 Mar 28 20:51	0° Υ			5214 Mar 02 19:11	0° ∀	
max. Earth dist.	5213 Apr 02 10:10	7° Ƴ 40'12	1.40002 AU	morning set	5214 Mar 08 14:57	9°) €04'18	
			404047	max. Earth dist.	5214 Mar 15 11:14	20°) €07'10	1.42100 AU
superior conj	5213 Apr 10 04:38	21° Υ 25'19	-1°49'20		5214 Mar 21 08:29	0 ° Υ	

superior conj	5214 Mar 22 22:14	2° Υ 42'17	2°05'37	evening rise	5215 Mar 16 10:40	4° Ƴ 33'52	
minimum elong	5214 Mar 23 01:15	2° γ^{42} $\gamma^$		asc. node	5215 Mar 10 10:40 5215 Mar 28 13:13	4 1 33 32 24° Υ 48'42	
evening rise	5214 Apr 03 01:52	2° $\gamma_{35'43}$	2 03 30	asc. node	5215 Apr 01 09:13	0°8	
evening rise	5214 Apr 07 03:58	0° 8		evening max el	5215 Apr 03 01:54	1° 8 51'12	18°08'49
asc. node	5214 Apr 10 16:11	6° 8 09'04		retrograde	5215 Apr 09 12:20	5° 8 13'39	16 06 49
	5214 Apr 10 10:11	18° 8 38'35	18°08'48	•	5215 Apr 12 08:13	4° 8 33'07	
evening max el	-		10 00 40	evening set	*	4 O 33 07 30° R Υ	
retrograde	5214 Apr 26 07:39	22° 8 04'32		: <i>c</i> :	5215 Apr 17 22:33	30° γ 1 29° γ 21'04	2021152
evening set	5214 Apr 28 21:15	21° 8 35'20	2040120	inferior conj	5215 Apr 18 13:21		3°21'53
inferior conj	5214 May 05 15:49	16° 8 43'00	2°49'39	minimum elong	5215 Apr 18 15:05	29° Y 16′28	3°21'41
minimum elong	5214 May 05 18:58	16° 8 35'40	2°48'57	min. Earth dist.	5215 Apr 21 09:04	26° Y 22'46	0.62573 AU
min. Earth dist.	5214 May 08 22:57	13° 8 40'31	0.60409 AU	morning rise	5215 Apr 24 20:32	23° Y 16'17	
morning rise	5214 May 12 14:22	10° 8 52'45		direct	5215 May 01 16:45	20° Y 43′21	
desc. node	5214 May 16 23:45	9° 8 00'48		desc. node	5215 May 03 20:47	20° Y 57′25	
direct	5214 May 19 04:28	8° 8 46'58		morning max el	5215 May 15 18:09	28° Y 43'51	27°51'43
morning max el	5214 Jun 02 11:53	16° 8 41'38	27°43'04		5215 May 16 23:49	0° 8	
	5214 Jun 13 10:54	0° I I			5215 Jun 07 07:31	Π $^{\circ}0$	
	5214 Jul 01 04:33	0 \circ \odot		morning set	5215 Jun 18 17:50	21° Ⅱ 20′02	
morning set	5214 Jul 04 17:25	7° © 08'58			5215 Jun 22 22:05	0 \circ \odot	
asc. node	5214 Jul 07 15:27	13° © 18'26		max. Earth dist.	5215 Jun 24 05:08	2° © 45'39	1.32461 AU
max. Earth dist.	5214 Jul 10 22:10	20°526'02	1.31992 AU	asc. node	5215 Jun 24 12:29	3°525'07	
superior conj	5214 Jul 11 23:01	22° © 42'36	0°43'42	superior conj	5215 Jun 26 07:59	7° © 20'14	0°18'47
minimum elong	5214 Jul 11 21:13	22° © 32'42	0°43'20	minimum elong	5215 Jun 26 07:06	7° © 15'28	0°18'35
	5214 Jul 15 06:26	$0^{\circ}\Omega$		evening rise	5215 Jul 03 05:58	22° © 20'50	
evening rise	5214 Jul 18 18:15	7° Ω 34'06			5215 Jul 06 22:19	$0 {\circ} \Omega$	
	5214 Jul 30 09:18	O° Mp			5215 Jul 26 03:33	0° m)	
desc. node	5214 Aug 12 23:00	18° m 49'01		evening max el	5215 Jul 27 11:33	1° M ,20'27	23°56'08
evening max el	5214 Aug 14 22:38	20° m 49'03	25°28'12	desc. node	5215 Jul 30 20:01	4° Mp 13′44	
retrograde	5214 Aug 28 21:14	27° m 53′27		retrograde	5215 Aug 10 05:01	8° m y 14'44	
evening set	5214 Sep 03 19:24	26° M 32′01		evening set	5215 Aug 14 17:27	7° m , 29′40	
min. Earth dist.	5214 Sep 08 10:25	23° m 53'16	0.57932 AU	min. Earth dist.	5215 Aug 20 21:53	4° ™ 29'37	0.56174 AU
inferior conj	5214 Sep 11 12:49	21°M/44'16	-5°12'52	inferior conj	5215 Aug 23 06:08	3° m 03'46	-5°12'27
minimum elong	5214 Sep 11 15:42	21°M/39'15	5°12'39	minimum elong	5215 Aug 23 02:52	3° m 08'46	5°12'12
morning rise	5214 Sep 19 14:15	17° m 27'30			5215 Aug 28 21:53	30° ₹Ω	
direct	5214 Sep 22 01:56	17° m 08'33		morning rise	5215 Aug 31 14:49	29° Ω 06'41	
morning max el	5214 Sep 30 16:43	21°Mp14'17	18°52'39	direct	5215 Sep 03 09:10	28° Ω 47′08	
asc. node	5214 Oct 03 14:43	24° Mp 26'51			5215 Sep 08 12:41	0° m)	
	5214 Oct 07 12:37	0∘ ত		morning max el	5215 Sep 13 10:08	3° m 27'40	19°55'19
morning set	5214 Oct 17 05:09	17° ≏ 41'08		asc. node	5215 Sep 20 11:46	12° m) 14'08	
C	5214 Oct 23 11:55	0° M .			5215 Sep 30 06:41	0∘ ⊽	
				morning set	5215 Oct 01 09:09	2° ₽ 13'28	
superior conj	5214 Oct 25 16:24	4°M12'01	1°29'18				
minimum elong	5214 Oct 25 19:21	4°M26'03	1°29'02	superior conj	5215 Oct 09 03:42	18° ≏ 00'08	1°40'24
max. Earth dist.	5214 Nov 01 16:37	17° M 07'04	1.39169 AU	minimum elong	5215 Oct 09 05:06	18° ≙ 07'11	1°40'20
evening rise	5214 Nov 05 14:08	23°M54'44		max. Earth dist.	5215 Oct 14 21:48	29° ₽ 10'33	1.37090 AU
desc. node	5214 Nov 08 22:19	29°M31'31			5215 Oct 15 08:20	0° M .	
	5214 Nov 09 05:13	0° √		evening rise	5215 Oct 18 16:35	6°ML08'44	
	5214 Nov 29 08:09	0° ට		desc. node	5215 Oct 26 19:18	20°ML04'36	
evening max el	5214 Dec 10 21:12	13° る 41'29	24°22'57		5215 Nov 02 02:30	0° ∡ ¹	
retrograde	5214 Dec 22 04:58	20° ට 19'19		evening max el	5215 Nov 23 09:38		25°36'25
evening set	5214 Dec 27 14:40	18° る 04'05		evening man er	5215 Nov 26 06:03	್ತ್	20 30 20
asc. node	5214 Dec 30 13:58	14° る 55'28		retrograde	5215 Dec 05 15:55	[°] ਰ26'56	
min. Earth dist.	5215 Jan 01 06:46	12° る 43'29	0.67808 AU	evening set	5215 Dec 11 15:07	1°る58'31	
inferior conj	5215 Jan 02 02:24	11° る 37'40	0°50'34	evening set	5215 Dec 11 15:07 5215 Dec 13 15:43	30°R. ₹	
minimum elong	5215 Jan 02 01:13	11° ろ 41'37		min. Earth dist.	5215 Dec 15 13:43 5215 Dec 15 23:51	27° ₹ 12′24	0.67150 AU
morning rise	5215 Jan 07 11:53	5° ප 35'57	0 30 00	inferior conj	5215 Dec 17 06:30	25° × 34'30	
direct	5215 Jan 11 07:35	4° ප 12'34		minimum elong	5215 Dec 17 06:36	25° 🗷 34'12	0°03'47
	5215 Jan 19 00:38	8° ප 35'18	20°11'06	transit middle	5215 Dec 17 06:36	25° x 34'12	0°03'47
morning max el	5215 Jan 19 00:38 5215 Feb 04 03:20	0°≈	20 1100	transit middle transit begin	5215 Dec 17 06:36 5215 Dec 17 03:52	25° x ' 34'12' 25° x ' 42'56	0 034/
desc. node		0°≈ 1°≈07'51		transit begin transit end		25° x '42'36	
	5215 Feb 04 21:35				5215 Dec 17 09:20		
morning set	5215 Feb 15 13:04	17°≈18'16		asc. node	5215 Dec 17 11:01	25° х 20'04	
E d v	5215 Feb 23 15:45	0°) (1 42000 433	morning rise	5215 Dec 22 22:28	19° 🗷 40'40	
max. Earth dist.	5215 Feb 25 20:00	3° ¥ 28'14	1.43808 AU	direct	5215 Dec 26 06:19	18° ₹ 36'59	10010155
	5015 X 00 10 1	1001/5	20051	morning max el	5216 Jan 02 06:21	22° ∡ 730′16	19°10'55
superior conj	5215 Mar 03 15:01	12°) 52′02			5216 Jan 08 10:35	0°る	0.7
minimum elong	5215 Mar 03 12:49	12°) (43′00	2°07'52	greatest brilliancy	5216 Jan 15 23:12	10°る59'37	-0.7m
	5215 Mar 13 19:13	0 ° $\mathbf{\gamma}$		desc. node	5216 Jan 22 18:35	21° る 27'08	

morning set	5216 Jan 25 14:35	25° ප් 50'43		desc. node	5217 Jan 08 15:37	11° る 59'27	
	5216 Jan 28 06:45	0° ≈					
max. Earth dist.	5216 Feb 08 10:38	17° ≈ 27'01	1.44925 AU	superior conj	5217 Jan 20 10:46	0° ≈ 36'37	
				minimum elong	5217 Jan 20 02:00	0° ≈ 02'13	1°14'55
superior conj	5216 Feb 11 07:26	21°≈58'48			5217 Jan 20 01:26	0° ≈	
minimum elong	5216 Feb 10 23:17	21°≈26′28	1°50'43	max. Earth dist.	5217 Jan 21 05:04	1°≈48'19	1.45340 AU
	5216 Feb 16 08:06	0° ₩ 15° ₩ 35'05		evening rise	5217 Feb 05 09:41	25°≈40'01 0°¥	
evening rise	5216 Feb 25 21:49	15°π35'05 0°Υ		arrantant brillianass	5217 Feb 08 03:30	0° X 11° ¥ 12'08	-0.8m
asc. node	5216 Mar 05 16:31 5216 Mar 14 10:17	0° γ 12° Υ 49'38		greatest brilliancy	5217 Feb 15 06:27 5217 Feb 28 00:07	28° H 46'10	-0.8m 19°03'58
evening max el	5216 Mar 14 10.17	12 1 49 38 15° Υ 15'29	18°27'33	evening max el asc. node	5217 Feb 28 00.07 5217 Mar 01 07:20	0°Υ00'23	19 03 38
retrograde	5216 Mar 23 02:11	18° Y 47'40	10 2/33	asc. node	5217 Mar 01 07:20 5217 Mar 01 07:09	0° Υ	
evening set	5216 Mar 26 04:21	17° Υ 54'42		retrograde	5217 Mar 06 21:27	2° Υ 39'28	
inferior conj	5216 Mar 31 23:55	12° Υ 24'35	3°32'38	evening set	5217 Mar 10 06:33	1° Υ 33'10	
minimum elong	5216 Apr 01 00:02	12° Υ 24'13	3°32'38	evening sec	5217 Mar 12 04:19	30° R ₩	
min. Earth dist.	5216 Apr 03 04:39	9° Υ '50'05	0.64488 AU	inferior conj	5217 Mar 15 19:49	25°) (46'37	3°27'05
morning rise	5216 Apr 06 18:57	6° Ƴ 12'42		minimum elong	5217 Mar 15 18:37	25°) 50'24	3°26'59
direct	5216 Apr 13 13:16	3° Y 24'52		min. Earth dist.	5217 Mar 17 09:03	23°) 48′29	0.66027 AU
desc. node	5216 Apr 19 17:49	5° Ƴ 20'04		morning rise	5217 Mar 21 06:19	19°) 32′09	
morning max el	5216 Apr 27 03:36	11° Y 21'10	27°24'17	direct	5217 Mar 27 16:33	16°) 43′07	
-	5216 May 11 22:17	0°8		desc. node	5217 Apr 06 14:52	21° ℋ 35'22	
	5216 May 29 18:56	$\Pi^{\circ}0$		morning max el	5217 Apr 09 13:32	24°) €21'40	26°27'16
morning set	5216 Jun 01 09:59	5° Ⅱ 03'41			5217 Apr 14 15:21	0 ° Υ	
max. Earth dist.	5216 Jun 06 04:10	14° Ⅱ 38'41	1.33382 AU		5217 May 05 08:19	9° 8	
				morning set	5217 May 15 14:23	18° 8 09'30	
superior conj	5216 Jun 09 12:45	21° Ⅱ 41'11	-0°08'59	max. Earth dist.	5217 May 19 16:19	26° 8 00'55	1.34778 AU
minimum elong	5216 Jun 09 13:13	21° Ⅱ 43′38	0°08'55		5217 May 21 16:24	$\Pi^{\circ}0$	
behind sun begin	5216 Jun 09 08:38	21° Ⅱ 19'19					
behind sun end	5216 Jun 09 17:48	22° Ⅱ 07'58		superior conj	5217 May 24 11:00	5° Ⅱ 38'35	
asc. node	5216 Jun 10 09:33	23° Ⅱ 31'49		minimum elong	5217 May 24 13:07	5° Ⅱ 49'25	0°38'07
	5216 Jun 13 10:02	0ං ව		asc. node	5217 May 28 06:36	13° Ⅱ 34'18	
evening rise	5216 Jun 16 17:17	7°502'21		evening rise	5217 Jun 01 02:13	21° Ⅲ 32′21	
	5216 Jun 28 22:13	0° Ω			5217 Jun 05 06:38	0°©	
evening max el	5216 Jul 08 01:38	11° Ω 41'43	22°18'44	evening max el	5217 Jun 20 00:43	22°525'07	20°50'15
desc. node	5216 Jul 16 17:02	17° Ω 24'50		retrograde	5217 Jul 01 13:01	28°904'17	
retrograde	5216 Jul 21 00:41	18° Ω 08'05		evening set	5217 Jul 03 15:51	27°953'35	
evening set min. Earth dist.	5216 Jul 24 01:19 5216 Aug 01 08:04	17° Ω 47'51 14° Ω 12'40	0.55046 AU	desc. node inferior conj	5217 Jul 03 14:04 5217 Jul 12 23:16	27°954'18 23°956'34	2944!10
inferior conj	5216 Aug 01 08:04 5216 Aug 02 06:14	14 δι 12 40		minimum elong	5217 Jul 12 25:16 5217 Jul 12 15:50	23 \$30 34 24°\$07'07	
minimum elong	5216 Aug 02 00:14 5216 Aug 01 21:49	$13^{\circ} \Omega 53'16$		min. Earth dist.	5217 Jul 12 13:50 5217 Jul 13 18:59		0.54817 AU
morning rise	5216 Aug 10 20:08	9° Ω 51'30	7 20 23	morning rise	5217 Jul 21 15:36	19°955'04	0.54017710
direct	5216 Aug 13 23:48	9° Ω 29'06		direct	5217 Jul 25 09:02	19° © 25'13	
morning max el	5216 Aug 25 15:27	14°Ω55'30	21°18'55	morning max el	5217 Aug 07 10:11	25°540'40	22°58'16
	5216 Sep 05 22:11	0° m/y		. <i></i>	5217 Aug 11 11:49	$0^{\circ}\Omega$	
asc. node	5216 Sep 06 08:49	0° m/45'58		asc. node	5217 Aug 24 05:52	19° Ω 50'49	
morning set	5216 Sep 14 17:41	16° m 58'39			5217 Aug 29 07:43	0° m)	
	5216 Sep 20 22:43	0∘ ⊽		morning set	5217 Aug 30 04:42	1° m 49'54	
superior conj	5216 Sep 22 01:20	2° ≏ 18'32	1°43'27	superior conj	5217 Sep 06 05:54	16° m 56'10	1°39'42
minimum elong	5216 Sep 22 01:14	2° ≏ 18′05	1°43'27	minimum elong	5217 Sep 06 04:38	16° Mp 49′23	1°39'37
max. Earth dist.	5216 Sep 26 08:13	11° ≏ 02'29	1.35252 AU	max. Earth dist.	5217 Sep 09 03:21	23° m 03'46	1.33786 AU
evening rise	5216 Sep 30 13:19	19° ≙ 13'50			5217 Sep 12 12:22	0∘ ত	
	5216 Oct 06 11:18	0° M ₊		evening rise	5217 Sep 13 23:56	2° £ 57'23	
desc. node	5216 Oct 12 16:20	10°M24'14			5217 Sep 29 07:26	0°M	
	5216 Oct 26 04:35	0° ⊼	2602622	desc. node	5217 Sep 29 13:22	0°M23'02	0.701.512.5
evening max el	5216 Nov 04 22:27	11° х 06'29	26°36'23	evening max el	5217 Oct 18 11:07	24°M36'14	27°15'31
retrograde	5216 Nov 17 21:44	18° × 21'24		rotro c J -	5217 Oct 25 11:25	0°⊀ 7 1°∗ 7 54!12	
evening set	5216 Nov 24 09:38	15° 🗷 44'04	0.66145 411	retrograde	5217 Oct 31 21:29	1° х 54′12	
min. Earth dist.	5216 Nov 28 11:43	11° ∡ 133'07 9° ∡1 27'38	0.66145 AU	avaning set	5217 Nov 06 18:23	30°RM 29°M14'35	
inferior conj minimum elong	5216 Nov 30 05:47 5216 Nov 30 07:32	9° × '27'38 9° × '22'23	1°03'11 1°02'25	evening set min. Earth dist.	5217 Nov 07 19:49 5217 Nov 11 15:58	29°11L14'35 25°11L38'27	0.64790 AU
asc. node	5216 Nov 30 07:32 5216 Dec 03 08:04	6° ₹ 100'23	1 0443	inferior conj	5217 Nov 11 15:58 5217 Nov 13 21:54	23°M11'09	
morning rise	5216 Dec 05 08:04 5216 Dec 06 06:12	3° х 44′12		minimum elong	5217 Nov 13 21:34 5217 Nov 14 01:34	23°M01'09	
direct	5216 Dec 09 04:16	2° 🗷 56'31		morning rise	5217 Nov 20 08:29	17°M41'14	2 0120
morning max el	5216 Dec 15 18:25	6° × ⁷ 31'19	18°26'40	asc. node	5217 Nov 20 05:06	17° M .45'07	
<i>5 </i>	5217 Jan 01 03:25	0°る		direct	5217 Nov 22 23:01	17°ML05'40	
morning set	5217 Jan 04 16:43	5° ರ 40'56		morning max el	5217 Nov 29 10:19	20°M31'32	17°59'19

morning set	5217 Dec 06 15:22 5217 Dec 17 00:28	0° ₰ 16° ₰ 59'21		morning max el morning set	5218 Nov 13 03:07 5218 Nov 29 08:53	4°M24'08 29°M28'52	17°49'29
	5217 Dec 24 21:17	0°궁			5218 Nov 29 15:59	0° ∡ ¹	
desc. node	5217 Dec 26 12:39	2° る 40'14		superior conj	5218 Dec 11 05:47	19° ∡ 751'17	0°15'13
superior conj	5217 Dec 30 20:58	9° ප 40'06	-0°29'58	minimum elong	5218 Dec 11 03:47	19° × 757'41	0°15'00
minimum elong	5217 Dec 30 20:30 5217 Dec 30 17:20	9° る 25'33	0°29'27	behind sun begin	5218 Dec 11 03:56	19° × ⁷ 43'33	0 12 00
max. Earth dist.	5218 Jan 04 00:37	16° る 15'29		behind sun end	5218 Dec 11 10:43	20° х 11′48	
	5218 Jan 12 19:52	0° ≈		desc. node	5218 Dec 13 09:40	23° х 25'44	
evening rise	5218 Jan 16 02:36	5°≈03'59			5218 Dec 17 10:42	0°ರ	
greatest brilliancy	5218 Jan 30 07:59	26° ≈ 39'43	-0.6m	max. Earth dist.	5218 Dec 17 18:07	0°る29'49	1.43972 AU
· ·	5218 Feb 01 14:54	0°) €		evening rise	5218 Dec 26 12:44	14° ප 18'01	
evening max el	5218 Feb 11 05:25	12°) 19′40	19°56'24	C	5219 Jan 05 21:42	0° ≈	
asc. node	5218 Feb 16 04:22	16°) 07′20		evening max el	5219 Jan 25 05:11	25°≈53'48	21°02'14
retrograde	5218 Feb 18 19:18	16°) 43′50		-	5219 Jan 30 08:18	0° ℋ	
evening set	5218 Feb 22 12:26	15°) 23′19		retrograde	5219 Feb 02 17:26	0°) 55′53	
inferior conj	5218 Feb 27 22:03	9°) 22′19	3°08'57	asc. node	5219 Feb 03 01:23	0° ¥ 55'18	
minimum elong	5218 Feb 27 20:01	9°) 29′09	3°08'34		5219 Feb 05 21:06	30°R ≈	
min. Earth dist.	5218 Feb 28 20:44	8° ₩ 06'17	0.67138 AU	evening set	5219 Feb 06 20:00	29° ≈ 20′25	
morning rise	5218 Mar 05 03:23	3°) €07'46		inferior conj	5219 Feb 12 04:07	23° ≈ 07'34	2°40'35
direct	5218 Mar 11 01:26	0°) 29′03		minimum elong	5219 Feb 12 01:44	23° ≈ 15'51	2°39'57
morning max el	5218 Mar 22 22:35	7°) 35′07	25°09'49	min. Earth dist.	5219 Feb 12 13:43	22° ≈ 34'26	0.67825 AU
desc. node	5218 Mar 24 11:55	9°) 12'44		morning rise	5219 Feb 17 07:17	16° ≈ 54'27	
	5218 Apr 09 10:29	$0^{\circ}\mathbf{\Upsilon}$		direct	5219 Feb 22 15:08	14° ≈ 33'48	
	5218 Apr 27 20:54	9° 8		morning max el	5219 Mar 05 07:23	20° ≈ 55′21	23°41'54
morning set	5218 Apr 28 02:23	0° 8 24'36		desc. node	5219 Mar 11 08:56	27° ≈ 48′22	
max. Earth dist.	5218 May 01 17:56	7° 8 04'48	1.36608 AU		5219 Mar 13 02:41	0°) €	
					5219 Apr 02 16:24	0 ° $\mathbf{\gamma}$	
superior conj	5218 May 07 23:51	19° 8 04'37	-1°08'15	morning set	5219 Apr 09 16:08	11° Ƴ 32'43	
minimum elong	5218 May 08 03:38	19° 8 23'20	1°07'37	max. Earth dist.	5219 Apr 13 13:45	18° Ƴ 18′22	1.38737 AU
	5218 May 13 10:29	Π $^{\circ}0$			5219 Apr 20 00:18	$_{0\circ}$ 8	
asc. node	5218 May 15 03:38	3° Ⅱ 28'34					
evening rise	5218 May 16 06:31	5° ∏ 44'21		superior conj	5219 Apr 20 23:30	1° 8 48'44	
	5218 May 30 03:49	0°€		minimum elong	5219 Apr 21 04:27	2° 8 12'00	1°35'12
evening max el	5218 Jun 02 12:14	3° © 48'35	19°39'05	evening rise	5219 Apr 30 03:23	19° 8 29'50	
retrograde	5218 Jun 12 06:55	8°935'24		asc. node	5219 May 02 00:39	23° 8 09'19	
evening set	5218 Jun 14 05:05	8°925'07			5219 May 05 15:44	0°II	
desc. node	5218 Jun 20 11:06	5°954'02		evening max el	5219 May 16 11:00	15° Ⅱ 52'36	18°48'06
inferior conj	5218 Jun 22 23:56	4°921'35		retrograde	5219 May 24 17:04	19° Ⅱ 55'56	
minimum elong	5218 Jun 22 21:52	4°924'50		evening set	5219 May 26 19:41	19° Ⅱ 41'01	1001116
min. Earth dist.	5218 Jun 25 07:54 5218 Jul 01 01:17	2°954'05	0.55551 AU	inferior conj	5219 Jun 03 19:04	15° Ⅱ 20'51	1°01'16 1°00'28
marning rise	5218 Jul 01 01:17	30°RⅡ 29°Ⅱ50'31		minimum elong min. Earth dist.	5219 Jun 03 21:19 5219 Jun 07 00:19	15° Ⅱ 16'45 13° Ⅱ 00'53	0.57091 AU
morning rise direct	5218 Jul 06 01:06	29° I I04'52		desc. node	5219 Jun 07 08:09	13 Ⅱ 00 33 12° Ⅱ 47'22	0.37091 AU
direct	5218 Jul 10 23:33	0°99		morning rise	5219 Jun 11 19:38	12 II 47 22 10° II 13'13	
morning max el	5218 Jul 19 23:56	6°902'47	24942102	direct	5219 Jun 17 06:45	9° П 00'38	
morning max ci	5218 Aug 06 05:28	0°Ω	24 42 02	morning max el	5219 Jul 01 15:09	16° Ⅱ 29'56	26°14'35
asc. node	5218 Aug 11 02:54	9° Ω 20'20		morning max cr	5219 Jul 12 15:57	0°9	20 1433
morning set	5218 Aug 14 16:27	16° Ω 42'27		asc. node	5219 Jul 28 23:55	29° 5 07'09	
morning sec	5218 Aug 20 19:34	0°m/		use. Houe	5219 Jul 29 10:03	0°Ω	
	221011118 20 11101	* '4		morning set	5219 Jul 30 03:20	1° £ 31′00	
superior conj	5218 Aug 21 14:52	1° m 45'25	1°30'07	. 8			
minimum elong	5218 Aug 21 12:50	1° m) 34'24		superior conj	5219 Aug 06 02:08	16° Ω 39'26	1°15'31
max. Earth dist.	5218 Aug 23 06:48	5° m) 22'37	1.32741 AU	minimum elong	5219 Aug 05 23:50	16° Ω 26'43	1°15'10
evening rise	5218 Aug 28 20:44	17° m 09'16		max. Earth dist.	5219 Aug 06 15:54	17° £ 55′22	1.32116 AU
C	5218 Sep 04 11:08	0∘ <u>⊽</u>			5219 Aug 12 05:33	0° m)	
desc. node	5218 Sep 16 10:22	19° ჲ 52'17		evening rise	5219 Aug 13 00:39	1° Mp 40'28	
	5218 Sep 23 21:30	0° M		-	5219 Aug 28 09:47	0∘ ⊽	
evening max el	5218 Sep 30 21:47	7° M 41'01	27°27'04	desc. node	5219 Sep 03 07:23	8° ≏ 40'05	
retrograde	5218 Oct 14 14:40	14°M56'43		evening max el	5219 Sep 13 03:53	20° ≏ 07'59	27°06'20
evening set	5218 Oct 21 18:42	12°M24'06		retrograde	5219 Sep 27 00:43	27° ≏ 20'02	
min. Earth dist.	5218 Oct 25 10:28	9°M19'26	0.63107 AU	evening set	5219 Oct 04 02:25	25° ≏ 06'12	
inferior conj	5218 Oct 28 04:09	6°M38'28	-3°09'25	min. Earth dist.	5219 Oct 07 18:17	22° ≏ 24'09	0.61155 AU
minimum elong	5218 Oct 28 09:35	6°M25'06	3°07'33	inferior conj	5219 Oct 10 21:21	19° ≏ 41'51	-4°08'57
morning rise	5218 Nov 04 02:04	1°M25'37		minimum elong	5219 Oct 11 03:41	19° ≙ 28'06	4°07'17
direct	5218 Nov 06 11:40	0°M58'32		morning rise	5219 Oct 18 06:55	14° ≏ 49'24	
asc. node	5218 Nov 07 02:09	1°ML00'17		direct	5219 Oct 20 14:26	14° ≏ 27'39	

asc. node	5210 Oct 24 22:10	15° ≏ 48'28			5220 Sep 24 23:08	200 p. ₩n	
	5219 Oct 24 23:10		17°58'09			30°RM)	
morning max el	5219 Oct 27 17:41	18° Ω 01'33	1/-38/09	morning rise	5220 Sep 29 18:12	27° Mp 41'40	
	5219 Nov 05 07:48	0°M,		direct	5220 Oct 02 03:07	27° m/22'28	
morning set	5219 Nov 12 11:33	12°M50'14			5220 Oct 08 16:58	0∘ ʊ	10000110
	5219 Nov 21 22:54	0° ∡ 7		morning max el	5220 Oct 10 02:35	1° 2 14'00	18°26'40
	5010 N	10.710157	0050110	asc. node	5220 Oct 10 20:12	1° £ 58'09	
superior conj	5219 Nov 22 17:06	1° √ 19'57		morning set	5220 Oct 26 03:02	26° £ 47'30	
minimum elong	5219 Nov 22 20:53	1° ∡ 36'31	0°51'42		5220 Oct 27 19:04	0° M	
desc. node	5219 Nov 30 06:40	14° ∡ 12'50					
max. Earth dist.	5219 Nov 30 06:51	14° ∡ 13'35	1.42360 AU	superior conj	5220 Nov 04 03:11	13°ML54'17	1°18'42
evening rise	5219 Dec 06 07:57	24° ∡ ¹00'55		minimum elong	5220 Nov 04 06:48	14°ML11'03	1°18'19
	5219 Dec 10 03:38	0°る		max. Earth dist.	5220 Nov 11 14:10	27°ML14'43	1.40378 AU
	5219 Dec 30 22:39	0° ≈			5220 Nov 13 04:45	0° ∡ 7	
evening max el	5220 Jan 07 23:41	9° ≈ 29'39	22°17'41	evening rise	5220 Nov 15 23:14	4° ∡ ³39'11 −	
retrograde	5220 Jan 17 14:06	15° ≈ 12'18		desc. node	5220 Nov 16 03:40	4° ∡ 757'34	
asc. node	5220 Jan 20 22:25	14° ≈ 13'22			5220 Dec 02 08:44	0°₹	
evening set	5220 Jan 22 03:37	13° ≈ 21′23		evening max el	5220 Dec 20 14:23	23° る 08'33	23°37'36
inferior conj	5220 Jan 27 12:01	7° ≈ 00'03	2°03'38	retrograde	5220 Dec 31 07:46	29° ට 28'31	
minimum elong	5220 Jan 27 09:44	7° ≈ 07'59	2°02'53	evening set	5221 Jan 05 09:42	27° පි 22'09	
min. Earth dist.	5220 Jan 27 09:47	7° ≈ 07'48	0.68111 AU	asc. node	5221 Jan 06 19:27	26° る 01'27	
morning rise	5220 Feb 01 15:43	0° ≈ 49'48		inferior conj	5221 Jan 10 19:51	20° පි 56'20	1°19'11
	5220 Feb 02 18:15	30°₹ ⋜		minimum elong	5221 Jan 10 18:09	21° る 02'12	1°18'33
direct	5220 Feb 06 08:55	28° る 51'04		min. Earth dist.	5221 Jan 10 06:34	21° る 41'46	0.68020 AU
	5220 Feb 10 07:31	0° ≈		morning rise	5221 Jan 16 02:32	14° る 50'43	
morning max el	5220 Feb 15 18:43	4° ≈ 22'55	22°13'23	direct	5221 Jan 20 05:45	13° ප 14'42	
desc. node	5220 Feb 26 05:57	17° ≈ 06′11		morning max el	5221 Jan 28 11:57	18° පි 00'05	20°52'13
	5220 Mar 06 07:19	0° ∀			5221 Feb 07 06:01	0° ≈	
morning set	5220 Mar 20 02:20	21° ¥ 21'43		desc. node	5221 Feb 12 02:58	6° ≈ 54'03	
	5220 Mar 25 07:57	0° Y		morning set	5221 Feb 27 09:40	29° ≈ 57'13	
max. Earth dist.	5220 Mar 25 10:49	0° Y 12′04	1.40924 AU		5221 Feb 27 10:22	0° ∀	
				max. Earth dist.	5221 Mar 07 14:29	13°) €00'33	1.42884 AU
superior conj	5220 Apr 02 05:30	13° Ƴ 40'51	-1°57'34				
minimum elong	5220 Apr 02 10:02	14° Y ′01'03	1°57'16	superior conj	5221 Mar 14 12:58	24° ℋ 30′07	-2°08'38
	5220 Apr 11 03:08	0° ႘		minimum elong	5221 Mar 14 14:08	24°) €35'06	2°08'38
evening rise	5220 Apr 12 13:32	2° 8 40'48			5221 Mar 17 18:18	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	5220 Apr 17 21:40	12° 8 31'40		evening rise	5221 Mar 26 08:50	15° Ƴ 07'47	
evening max el	5220 Apr 28 17:56	28° 8 30'48	18°17'28		5221 Apr 03 20:55	$6^{\circ}B$	
	5220 Apr 30 10:53	$\Pi^{\circ}0$		asc. node	5221 Apr 04 18:42	1° 8 29'17	
retrograde	5220 May 05 22:02	2° Ⅱ 05'39		evening max el	5221 Apr 12 05:30	11° 8 33'55	18°06'32
evening set	5220 May 08 07:37	1° Ⅱ 42'30		retrograde	5221 Apr 18 19:14	14° 8 56'22	
	5220 May 11 16:58	30° ₹ 8		evening set	5221 Apr 21 11:34	14° 8 22'32	
inferior conj	5220 May 15 11:48	27° 8 02'18	2°18'54	inferior conj	5221 Apr 27 23:58	9° 8 21'58	3°06'16
minimum elong	5220 May 15 15:18	26° 8 54'50	2°17'56	minimum elong	5221 Apr 28 02:35	9° 8 15'29	3°05'48
min. Earth dist.	5220 May 18 22:05	24° 8 08'00	0.59140 AU	min. Earth dist.	5221 May 01 03:07	6° 8 18'14	0.61350 AU
morning rise	5220 May 22 20:01	21° 8 24'22		morning rise	5221 May 04 15:39	3° 8 24'35	
desc. node	5220 May 24 05:10	20° 8 42'44		direct	5221 May 11 09:38	1° 8 05'37	
direct	5220 May 29 02:32	19° 8 37'28		desc. node	5221 May 11 02:12	1° 8 05'54	
morning max el	5220 Jun 12 11:51	27° 8 26'22	27°20'44	morning max el	5221 May 25 14:48	9° 8 04'00	27°51'17
	5220 Jun 14 22:56	$\Pi^{\circ}0$			5221 Jun 10 17:43	$\Pi^{\circ}0$	
	5220 Jul 05 06:18	0 \circ \mathfrak{S}			5221 Jun 27 09:03	0°ಅ	
morning set	5220 Jul 13 11:41	16° © 10'05		morning set	5221 Jun 27 15:41	0° © 33'57	
asc. node	5220 Jul 14 20:56	19° © 05'37		asc. node	5221 Jul 01 17:58	9° 5 11'04	
	5220 Jul 19 21:14	$0^{\circ}\Omega$		max. Earth dist.	5221 Jul 03 12:43	13° © 02'23	1.32136 AU
max. Earth dist.	5220 Jul 20 03:06	0° Ω 32′21	1.31913 AU				
				superior conj	5221 Jul 05 00:29	16° © 17'47	0°33'33
superior conj	5220 Jul 20 13:55	1° Ω 32'07	0°56'29	minimum elong	5221 Jul 04 23:01	16° © 09'47	0°33'14
minimum elong	5220 Jul 20 11:48	1° Ω 20′26	0°56'04		5221 Jul 11 07:03	$0^{\circ}\Omega$	
evening rise	5220 Jul 27 09:14	16° Ω 23'22		evening rise	5221 Jul 11 20:25	1° Ω 11′26	
C	5220 Aug 03 03:12	0° m		Č	5221 Jul 27 12:10	0° mp	
desc. node	5220 Aug 20 04:24	26° m 29'12		evening max el	5221 Aug 06 19:10	12° mp 41'15	24°50'50
	5220 Aug 23 07:51	0∘ <u>⊽</u>		desc. node	5221 Aug 07 01:26	12° m 56'08	
evening max el	5220 Aug 25 03:06	1° ≏ 47'39	26°12'25	retrograde	5221 Aug 20 16:58	19° m 42'24	
retrograde	5220 Sep 08 02:16	8° ჲ 55'43		evening set	5221 Aug 26 01:42	18° m) 37'27	
evening set	5220 Sep 14 14:07	7° △ 13'01		min. Earth dist.	5221 Aug 31 06:35	-	0.57129 AU
min. Earth dist.	5220 Sep 18 16:10	4° ≙ 38'08	0.59080 AU	inferior conj	5221 Sep 03 03:04	13° m 59'10	
inferior conj	5220 Sep 21 21:57	2° ჲ 11'33		minimum elong	5221 Sep 03 03:35	13° m) 58'18	
minimum elong	5220 Sep 22 03:02	2° ჲ 01'55		morning rise	5221 Sep 11 07:49	9° m 51'14	
				C	*		

direct	5221 Sep 13 21:56	9° m 32'15		minimum elong	5222 Aug 14 06:22	25° Ω 08'28	4°56'52
morning max el	5221 Sep 23 02:27	13° m 51'49	19°16'32	morning rise	5222 Aug 22 23:26	21° Ω 07'41	. 5552
asc. node	5221 Sep 27 17:15	19° m) 14'25		direct	5222 Aug 25 21:42	20°Ω47'04	
	5221 Oct 04 08:23	$0 \circ \overline{\mathbf{v}}$		morning max el	5222 Sep 05 14:38	25° Ω 45'42	20°28'25
morning set	5221 Oct 10 03:24	11° ≏ 09'57		Č	5222 Sep 09 11:48	0° m)	
C				asc. node	5222 Sep 14 14:18	7° m/22'07	
superior conj	5221 Oct 18 06:44	27° ₽ 19'38	1°35'04	morning set	5222 Sep 24 09:38	25° m/48'50	
minimum elong	5221 Oct 18 09:03	27° £ 30'55	1°34'54		5222 Sep 26 10:23	0∘ ⊽	
	5221 Oct 19 15:55	0°M					
max. Earth dist.	5221 Oct 24 19:04	9°M36'30	1.38273 AU	superior conj	5222 Oct 01 22:53	11° ≏ 21'55	1°42'35
evening rise	5221 Oct 28 13:31	16°M20'09		minimum elong	5222 Oct 01 23:38	11° ≏ 25'44	1°42'34
desc. node	5221 Nov 03 00:41	25°M36'22		max. Earth dist.	5222 Oct 07 02:18	21° ≏ 33'54	1.36277 AU
	5221 Nov 05 17:42	0° ∡ ¹		evening rise	5222 Oct 11 00:17	28° ≏ 57'11	
	5221 Nov 26 22:05	0°ප			5222 Oct 11 13:59	0° M	
evening max el	5221 Dec 03 03:22	6° る 51'29	24°55'27	desc. node	5222 Oct 20 21:44	16°M04'37	
retrograde	5221 Dec 14 21:19	13° る 40'32			5222 Oct 29 23:59	0°⊀	
evening set	5221 Dec 20 12:41	11° る 19'39		evening max el	5222 Nov 15 16:03	20° ∡ ³35′24	26°04'01
asc. node	5221 Dec 24 16:30	6° ප් 43'15		retrograde	5222 Nov 28 05:58	27° ∡ ⁴43'31	
min. Earth dist.	5221 Dec 25 01:40	6° ප 13'26	0.67573 AU	evening set	5222 Dec 04 10:51	25° √ 10'41	
inferior conj	5221 Dec 26 01:51	4°₹53'48	0°28'10	min. Earth dist.	5222 Dec 08 16:45	20° х 39′39	0.66769 AU
minimum elong	5221 Dec 26 01:10		0°27'54	inferior conj	5222 Dec 10 04:10	18° ₹ 49'34	
	5221 Dec 30 05:47	30°R.✓		minimum elong	5222 Dec 10 04:56	18° ₹ 47'12	0°28'07
morning rise	5221 Dec 31 13:49	28° 🖈 54'57		asc. node	5222 Dec 11 13:33	17°×707'32	
direct	5222 Jan 04 04:20	27° х 40'08		morning rise	5222 Dec 15 23:31	12° 🖈 59'56	
	5222 Jan 09 12:57	0°る	10042124	direct	5222 Dec 19 03:02	12° ₹ 03'24	10050107
morning max el	5222 Jan 11 13:06	1°る48'47	19°43'34	morning max el	5222 Dec 25 21:48		18°50'07
greatest brilliancy	5222 Jan 24 14:23	18°る58'02	-0.7m		5223 Jan 05 14:47	0°る	
desc. node	5222 Jan 29 23:58	27°る03'41 0°≈		morning set	5223 Jan 16 16:16	17°る10'47 17°る29'16	
	5222 Jan 31 22:21 5222 Feb 06 05:52	0°≈ 8°≈08'56		desc. node	5223 Jan 16 20:59	1/° 6 29′16 0° ≈	
morning set max. Earth dist.	5222 Feb 18 02:06	8 ≈08 30 26°≈39'51	1.44365 AU	max. Earth dist.	5223 Jan 24 20:40 5223 Jan 31 19:19	0 ≈ 10°≈52'50	1.45191 AU
max. Earm dist.	5222 Feb 18 02:00 5222 Feb 20 04:20	20 ≈3931 0° \	1.44303 AU	max. Earth dist.	3223 Jan 31 19.19	10 ≈32 30	1.43191 AU
	3222 FC0 20 04.20	0 /		superior conj	5223 Feb 02 03:33	12° ≈ 59'27	-1°38'18
superior conj	5222 Feb 22 18:50	4°) 11′05	-2°03'22	minimum elong	5223 Feb 01 18:12	12°≈22'44	
minimum elong	5222 Feb 22 13:50	3°) € 50'58	2°03'08	minimum clong	5223 Feb 12 20:56	0°) €	1 37 23
evening rise	5222 Mar 08 08:48	26° \ 41'49	2 03 00	evening rise	5223 Feb 17 10:03	7° ₩ 18'59	
e vening rise	5222 Mar 10 07:32	0°Υ		evening rise	5223 Mar 03 17:27	0°Υ	
asc. node	5222 Mar 22 15:46	19° Υ 53'43		asc. node	5223 Mar 09 12:50	7° Υ 35'11	
evening max el	5222 Mar 26 18:28	24° Y 52'40	18°14'37	evening max el	5223 Mar 10 06:03	8° Υ 20'25	18°40'57
retrograde	5222 Apr 02 04:15	28°Υ17'23		retrograde	5223 Mar 16 20:56	12° Υ 00'19	
evening set	5222 Apr 05 02:54	27° Y 31'30		evening set	5223 Mar 20 01:59	11° Y 01'39	
inferior conj	5222 Apr 11 03:30	22° Ƴ 11'35	3°28'43	inferior conj	5223 Mar 25 18:28	5° Y 24'01	3°32'03
minimum elong	5222 Apr 11 04:32	22° Ƴ 08'42	3°28'38	minimum elong	5223 Mar 25 17:59	5° Y 25'31	3°32'02
min. Earth dist.	5222 Apr 13 17:02	19° Ƴ 21'38	0.63428 AU	min. Earth dist.	5223 Mar 27 16:26	3° Y 04'15	0.65188 AU
morning rise	5222 Apr 17 05:07	16° Ƴ 03′23			5223 Mar 30 11:51	30° ₹ ₩	
direct	5222 Apr 24 01:32	13° Ƴ 22'34		morning rise	5223 Mar 31 09:27	29°) 1 0′42	
desc. node	5222 Apr 27 23:15	14° Ƴ 08′23		direct	5223 Apr 07 00:51	26°) €21′09	
morning max el	5222 May 07 22:34	21° Y 21'49	27°44'13	desc. node	5223 Apr 14 20:16	29° ∺ 23′23	
	5222 May 15 10:39	9° 8			5223 Apr 15 16:08	$0^{\circ}\Upsilon$	
	5222 Jun 03 20:33	Π $^{\circ}0$		morning max el	5223 Apr 20 08:40	4° Υ 11'14	27°03'20
morning set	5222 Jun 11 12:57	14° Ⅱ 34'30			5223 May 09 21:57	9° 8	
max. Earth dist.	5222 Jun 16 16:51	25° Ⅱ 12'31	1.32800 AU	morning set	5223 May 26 00:36	28° 8 03'40	
asc. node	5222 Jun 18 15:00	29° Ⅱ 18'27			5223 May 27 00:36	Π °0	
	5222 Jun 18 22:45	0_{\circ} වෙ		max. Earth dist.	5223 May 30 11:50	6° ∏ 54'02	1.33924 AU
						•	
superior conj	5222 Jun 19 07:56	0°549'29	0°07'21	superior conj	5223 Jun 03 10:15	15° Ⅱ 01'21	
minimum elong	5222 Jun 19 07:35	0°547'34	0°07'14	minimum elong	5223 Jun 03 11:23	15° Ⅱ 07'17	0°21'08
behind sun begin	5222 Jun 19 02:49	0°921'56		asc. node	5223 Jun 05 12:04	19° Ⅱ 24'03	
behind sun end	5222 Jun 19 12:21	1°913'13		evening rise	5223 Jun 10 18:48	0°535'03	
evening rise	5222 Jun 26 08:13	15°957'14			5223 Jun 10 12:07	$0 _{\circ}$ ೮	
ovonina ma1	5222 Jul 03 07:38 5222 Jul 19 07:42	0° Ω 23° Ω 04'48	22014124	ovening me1	5223 Jun 27 19:29 5223 Jul 01 00:39	3° Ω 31′26	21920114
evening max el desc. node	5222 Jul 19 07:42 5222 Jul 24 22:29	23° λ 04'48 27° Ω 28'51	43 14 4 ⁴	evening max el desc. node	5223 Jul 11 19:31	9° Ω 33'41	21 39 14
retrograde	5222 Jul 24 22:29 5222 Aug 01 18:54	27° ∂ (28'51 29° Ω (48'59		retrograde	5223 Jul 11 19:31 5223 Jul 13 10:27	9° € 33°41	
evening set	5222 Aug 01 18:34 5222 Aug 05 15:37	29° Ω 16'22		evening set	5223 Jul 15 10:27 5223 Jul 15 23:42	9° € 25'08	
min. Earth dist.	5222 Aug 03 13.37 5222 Aug 12 16:54		0.55609 AU	inferior conj	5223 Jul 25 07:41	9 δ2 23 08 5° Ω 24'01	-3°45'20
inferior conj	5222 Aug 12 10:54 5222 Aug 14 12:19	24° £ 03 10		minimum elong	5223 Jul 24 22:51	5° Ω 36'23	
monor conj	Jan 114 17 12.19	2.063777	1 5/ 71	iiiiiiiiiiiii Ciong	5225 Jui 24 22.51	J 0 6 J 0 4 J	5 15 00

min. Earth dist.	5223 Jul 25 02:53 5223 Aug 02 23:14	1° £ 32′07	0.54837 AU	min. Earth dist.	5224 Jul 05 14:46 5224 Jul 12 17:51	14°546'28 11°527'24	0.55009 AU
direct morning max el asc. node	5223 Aug 06 08:02 5223 Aug 18 15:01 5223 Sep 01 11:19	1° Ω 07'26 6° Ω 54'09 26° Ω 09'04	21°59'47	direct morning max el	5224 Jul 16 18:30 5224 Jul 30 07:02 5224 Aug 09 11:21	10°S52'16 17°S27'40 0°Ω	23°42'44
morning set	5223 Sep 03 12:50 5223 Sep 08 19:26	0° т) 10° т) 37'26		asc. node morning set	5224 Aug 18 08:21 5224 Aug 23 06:57 5224 Aug 25 09:26	15° Q 25'43 25° Q 30'28 0° №	
superior conj minimum elong	5223 Sep 15 23:49 5223 Sep 15 23:11	25° Mp 49'45 25° Mp 46'25	1°42'37 1°42'36	superior conj	5224 Aug 30 06:34	10° mp 34'10	1°36'18
	5223 Sep 17 23:45	0∘ ⊽		minimum elong	5224 Aug 30 04:55	10°m/25'18	1°36'11
max. Earth dist.	5223 Sep 19 16:15	3° ≏ 28′03	1.34579 AU	max. Earth dist.	5224 Sep 01 14:56	15° ™ 36′21	1.33285 AU
evening rise	5223 Sep 24 03:23	12° ₽ 19'43		evening rise	5224 Sep 06 18:45	26° m 17'13	
desc. node	5223 Oct 03 22:30 5223 Oct 07 18:46	0°M 6°M16′29		desc. node	5224 Sep 08 15:45	0° ჲ 26° ჲ 04'38	
desc. node	5223 Oct 07 18.46 5223 Oct 25 03:39	0° √		desc. node	5224 Sep 23 15:48 5224 Sep 26 07:04	0°M	
evening max el	5223 Oct 29 04:44	4° ₹ 12'44	26°55'55	evening max el	5224 Oct 10 16:40		27°24'05
retrograde	5223 Nov 11 09:13	11° ∡ ³30′06		retrograde	5224 Oct 24 06:34	24°M52'06	
evening set	5223 Nov 18 02:08	8° ∡ 750'30		evening set	5224 Oct 31 07:59	22°M13'56	
min. Earth dist.	5223 Nov 22 01:28	4° ∡ ¹54'53	0.65612 AU	min. Earth dist.	5224 Nov 04 01:51	18°M51'54	0.64110 AU
inferior conj	5223 Nov 24 00:40	2° ∡ ³39′03	-1°29'31	inferior conj	5224 Nov 06 12:58	16°M17'16	-2°32'59
minimum elong	5223 Nov 24 03:13	2° ∡ ³31'41	1°28'26	minimum elong	5224 Nov 06 17:26	16°M05'34	2°31'18
	5223 Nov 26 10:21	30°RML		morning rise	5224 Nov 13 04:18	10°M54'19	
asc. node	5223 Nov 28 10:36	28°M10'10		asc. node	5224 Nov 14 07:36	10°M32'21	
morning rise	5223 Nov 30 05:16	27°M01'19		direct	5224 Nov 15 16:16	10°M22'57	15050155
direct	5223 Dec 02 23:50	26°M19'20	10012050	morning max el	5224 Nov 22 04:38	13° M .47'58 0° ₹	17°52'55
morning max el	5223 Dec 09 11:55 5223 Dec 09 16:16	29° II .49'02 0° ∡ 7	18°12'59	morning set	5224 Dec 03 11:40 5224 Dec 09 02:12	0° x ¹ 9° x ¹30'47	
morning set	5223 Dec 28 07:08	0 x ⁴ 27° x ³39'16		desc. node	5224 Dec 20 15:03	28° х 49'19	
morning set	5223 Dec 29 17:46	0°중		dese. Hode	5224 Dec 21 08:24	0°る	
desc. node	5224 Jan 03 18:00	8° ろ 05'38			022. 200 21 00.2.	. .	
				superior conj	5224 Dec 22 01:55	1° る 11'10	-0°10'10
superior conj	5224 Jan 12 07:12	21° පි 41'06	-0°57'01	minimum elong	5224 Dec 22 00:45	1° る 06'26	0°09'59
minimum elong	5224 Jan 12 00:13	21° る 13'36	0°56'06	behind sun begin	5224 Dec 21 16:48	0° る 34'07	
max. Earth dist.	5224 Jan 14 14:36	25° ට 18'51	1.45283 AU	behind sun end	5224 Dec 22 08:43	1° る 38'43	
	5224 Jan 17 14:24	0° ≈		max. Earth dist.	5224 Dec 27 09:06	9° ප 41'05	1.44646 AU
evening rise	5224 Jan 28 12:50	17° ≈ 03'31		evening rise	5225 Jan 07 00:57	26° る 18'31	
	5224 Feb 05 20:40	0° ∀			5225 Jan 09 10:46	0° ≈	
greatest brilliancy	5224 Feb 09 11:15	5°) (31'35			5225 Jan 30 01:21	0°) (25/20	20022157
evening max el asc. node	5224 Feb 21 13:58	21° 米 51'51 24° 米 20'21	19°24'25	evening max el	5225 Feb	5° ∺ 25'29 9° ∺ 55'18	20°22'57
retrograde	5224 Feb 24 09:53 5224 Feb 28 17:42	24 H 20 21 25° H 57'41		asc. node retrograde	5225 Feb 10 06:53 5225 Feb 11 15:54	9 X 33 18 10° X 05′26	
evening set	5224 Net 28 17:42 5224 Mar 03 05:59	24° H 45'30		evening set	5225 Feb 15 12:45	8°\(\frac{10}{38}\)'52	
inferior conj	5224 Mar 08 17:23	18° \ 52'20	3°20'47	inferior conj	5225 Feb 20 21:31		2°58'02
minimum elong	5224 Mar 08 15:46	18° ¥ 57'35	3°20'34	minimum elong	5225 Feb 20 19:16		2°57'33
min. Earth dist.	5224 Mar 10 00:14	17° ¥ 11'43	0.66545 AU	min. Earth dist.	5225 Feb 21 14:33	1°) (34′33	0.67481 AU
morning rise	5224 Mar 14 01:16	12°) 37′20			5225 Feb 22 18:53	30°R≈	
direct	5224 Mar 20 06:31	9° ⊁ 51'37		morning rise	5225 Feb 26 01:33	26° ≈ 18′11	
desc. node	5224 Mar 31 17:17	16° ¥ 16'33		direct	5225 Mar 03 17:44	23° ≈ 46′10	
morning max el	5224 Apr 01 18:30	17° ∺ 18'51	25°56'18		5225 Mar 14 13:02	0° ∀	
	5224 Apr 12 08:49	0° Υ		morning max el	5225 Mar 15 03:08	0°) 35′09	24°32'58
	5224 May 01 20:53	0° 8		desc. node	5225 Mar 18 14:18	4°) (20'54	
morning set	5224 May 07 22:38	10° 8 49'38	1 25502 111		5225 Apr 06 07:16	0° Υ	
max. Earth dist.	5224 May 11 19:15	18° 8 05'55	1.35503 AU	morning set	5225 Apr 20 01:54	22° Υ 38'04 29° Υ 06'51	1 27401 ATT
superior conj	5224 May 17 04:50	28° 8 45'59	0°51'14	max. Earth dist.	5225 Apr 23 16:56 5225 Apr 24 04:35	0° 8	1.37481 AU
minimum elong	5224 May 17 04.30 5224 May 17 07:40	28 8 43 39 29° 8 00'21			5225 Apr 24 04.55	v O	
minimum ciong	5224 May 17 19:26	0°II	0 30 12	superior conj	5225 Apr 30 12:31	11° 8 55'09	-1°20'25
asc. node	5224 May 22 09:08	9° ∏ 23'33		minimum elong	5225 Apr 30 16:55	12° 8 16'25	
evening rise	5224 May 25 02:01	14° Ⅱ 57'57		evening rise	5225 May 09 03:28	28° 8 59'08	
-	5224 Jun 01 20:04	0ංම		asc. node	5225 May 09 06:09	29° 8 12'32	
evening max el	5224 Jun 12 04:49	14° © 30'40	20°17'38		5225 May 09 15:43	$\Pi^{\circ}0$	
retrograde	5224 Jun 22 23:55	19°5647'48		evening max el	5225 May 25 21:30	26° Ⅱ 12'17	19°15'01
evening set	5224 Jun 24 22:44	19° © 38'11			5225 May 31 11:48	0 \circ \odot	
desc. node	5224 Jun 27 16:31	18°954'41		retrograde	5225 Jun 03 23:30	0° © 38'38	
inferior conj	5224 Jul 04 02:16	15°5540'06		evening set	5225 Jun 05 22:55	0°526'57	
minimum elong	5224 Jul 03 20:55	15° © 47'58	1°52'27		5225 Jun 07 14:57	30°Ŗ Ⅱ	

inferior conj	5225 Jun 14 09:53	26° Ⅱ 17'38	0°02'43	evening max el	5226 May 09 00:15	8° Ⅱ 32'29	18°32'40
minimum elong	5225 Jun 14 09:59	26° Ⅲ 17′27	0°02'39	retrograde	5226 May 16 17:35	12° Ⅲ 21′21	
transit middle	5225 Jun 14 09:59	26° Ⅱ 17'27	0°02'39	evening set	5226 May 18 23:17	12° Ⅲ 03'10	
transit begin	5225 Jun 14 06:12	26° Ⅲ 23'45		inferior conj	5226 May 26 14:11	7° Ⅱ 34'36	1°38'03
transit end	5225 Jun 14 13:46	26° Ⅱ 11'08		minimum elong	5226 May 26 17:19	7° Ⅱ 28'29	1°37'03
desc. node	5225 Jun 14 13:32	26° I I11'32		min. Earth dist.	5226 May 29 23:26	4° ∏ 57'26	0.57921 AU
min. Earth dist.	5225 Jun 17 05:13	24° I I26'02	0.56115 AU	desc. node	5226 Jun 01 10:33	3° Ⅱ 16'23	0.57721710
		24 H 2002 21° H 30'53	0.30113 AU			2° Ⅱ 13′20	
morning rise	5225 Jun 22 18:02			morning rise	5226 Jun 03 08:07		
direct	5225 Jun 27 16:28	20° Ⅲ 34'47		direct	5226 Jun 09 04:27	0° Ⅱ 46'31	
morning max el	5225 Jul 11 20:34	27° ∏ 48'14	25°23'43	morning max el	5226 Jun 23 13:35	8° Ⅱ 24'43	26°46'42
	5225 Jul 14 00:32	0			5226 Jul 09 20:35	0 \circ \odot	
	5225 Aug 02 16:38	$0 ^{\circ} \Omega$		morning set	5226 Jul 23 04:32	25° © 07'17	
asc. node	5225 Aug 05 05:23	5° ん 03'31		asc. node	5226 Jul 23 02:26	24° 9 56'10	
morning set	5225 Aug 07 18:31	10° Ω 22'05			5226 Jul 25 11:19	$0^{\circ}\Omega$	
superior conj	5225 Aug 14 16:45	25° Ω 26'38	1°24'32	superior conj	5226 Jul 30 04:27	10° Ω 20′50	1°07'58
minimum elong	5225 Aug 14 14:33	25° Ω 14'34	1°24'15	minimum elong	5226 Jul 30 02:10	10° Ω 08′13	1°07'35
max. Earth dist.	5225 Aug 15 21:04	28° Ω 01'47	1.32422 AU	max. Earth dist.	5226 Jul 30 07:38	10° Ω 38'25	1.31982 AU
max. Earth dist.	5225 Aug 16 18:45	0°m	1.52 122 110	evening rise	5226 Aug 06 01:07	25°Ω16'18	1.51702 110
avaning rica	Č	10° mp 38'55		evening rise	•	0° m)	
evening rise	5225 Aug 21 18:55				5226 Aug 08 07:47		
	5225 Aug 31 21:59	0° ⊽			5226 Aug 25 15:43	0∘ ত	
desc. node	5225 Sep 10 12:49	15° ≏ 18'21		desc. node	5226 Aug 28 09:49	3° Ω 43'40	
	5225 Sep 22 15:27	0° M ,		evening max el	5226 Sep 05 05:30	12° ≏ 33'21	26°47'20
evening max el	5225 Sep 23 01:51	0°M24'49	27°22'25	retrograde	5226 Sep 19 03:19	19° ≏ 42'44	
retrograde	5225 Oct 06 20:58	7°M39'04		evening set	5226 Sep 26 00:44	17° ≏ 41'05	
evening set	5225 Oct 14 00:57	5°M13'14		min. Earth dist.	5226 Sep 29 19:30	15° ≏ 04'09	0.60285 AU
min. Earth dist.	5225 Oct 17 16:06	2°M19'16	0.62304 AU	inferior conj	5226 Oct 03 00:42	12° ≏ 26'36	-4°31'10
	5225 Oct 20 03:54	30°₽ ₽		minimum elong	5226 Oct 03 06:51	12° ≏ 13'58	4°29'48
inferior conj	5225 Oct 20 14:06	29° ₽ 36'02	-3°35'33	morning rise	5226 Oct 10 14:58	7° ٩ 3'13	
minimum elong	5225 Oct 20 20:05	29° £ 22'01	3°33'40	direct	5226 Oct 12 22:46	7° ≏ 22'44	
morning rise	5225 Oct 27 17:00	24° £ 31'12		asc. node	5226 Oct 19 01:39	9° ჲ 52'14	
direct	5225 Oct 30 01:13	24° £ 06'47		morning max el	5226 Oct 20 09:20	11° ≏ 02'49	18°07'40
asc. node	5225 Nov 01 04:37	24° £ 27'49		morning man er	5226 Nov 01 21:45	0°M	10 07 10
morning max el	5225 Nov 05 20:50	27° £ 35'12	17950144	morning set	5226 Nov 05 03:51	6°ML03'28	
morning max er		0°M	1/ 3044	morning set	3220 NOV 03 03.31	0 11603 28	
	5225 Nov 08 00:56				5226 Nr. 14 10 40	220M 52152	1004145
morning set	5225 Nov 21 19:10	22°M24'57		superior conj	5226 Nov 14 19:40	23°M53'53	1°04'45
	5225 Nov 26 01:15	0° ∡ ¹		minimum elong	5226 Nov 14 23:37	24° M .11'31	1°04'15
					5226 Nov 18 06:30	0° ∡ ¹	
superior conj	5225 Dec 02 22:06		0°32'07	max. Earth dist.	5226 Nov 22 11:25		1.41559 AU
minimum elong	5225 Dec 03 00:58	12° ∡ 07'52	0°31'43	desc. node	5226 Nov 24 09:05	10° ∡ ′22'36	
desc. node	5225 Dec 07 12:04	19° ∡ ³36′07		evening rise	5226 Nov 27 16:03	15° ∡ ¹45'27	
max. Earth dist.	5225 Dec 10 00:33	23° ҂ ¹43'32	1.43353 AU		5226 Dec 06 19:06	0°る	
	5225 Dec 13 22:22	ರ°0			5226 Dec 28 19:49	0° ≈	
evening rise	5225 Dec 17 13:09	5°る40'57		evening max el	5226 Dec 31 07:13	2° ≈ 38′23	22°51'31
	5226 Jan 02 19:13	0° ≈		retrograde	5227 Jan 10 08:56	8° ≈ 36'57	
evening max el	5226 Jan 17 14:28	19° ≈ 01'00	21°33'29	evening set	5227 Jan 15 03:42	6° ≈ 39'16	
retrograde	5226 Jan 26 13:30	24°≈19'55		asc. node	5227 Jan 15 00:55	6° ≈ 44'59	
asc. node	5226 Jan 28 03:53	24°≈06'14		min. Earth dist.	5227 Jan 20 05:40	0° ≈ 40'00	0.68123 AU
evening set	5226 Jan 30 20:32	22° ≈ 38'04		inferior conj	5227 Jan 20 12:41	0°≈15'42	1°45'37
inferior conj	5226 Feb 05 04:37	16°≈21'28	2°25'52	minimum elong	5227 Jan 20 10:35	0°≈22'57	1°44'53
		16°≈29'49	2°25'10	minimum clong		0 ∞2237 30°Rる	1 44 33
minimum elong	5226 Feb 05 02:12				5227 Jan 20 17:14		
min. Earth dist.	5226 Feb 05 09:08	16°≈05'47	0.68000 AU	morning rise	5227 Jan 25 17:24	24°る07'28	
morning rise	5226 Feb 10 07:41	10°≈09'24		direct	5227 Jan 30 04:35	22° る 18'28	
direct		7° ≈ 57'32		morning max el	5227 Feb 08 01:51	27° る 29'02	21°37'36
morning max el	5226 Feb 15 09:24						
desc. node	5226 Feb 25 12:22	13° ≈ 57'41	23°03'42		5227 Feb 10 10:18	0° ≈	
desc. Hode			23°03'42	desc. node	5227 Feb 10 10:18 5227 Feb 20 08:21	12° ≈ 48′08	
dese. Hode	5226 Feb 25 12:22	13°≈57'41 23°≈16'24 0°¥	23°03'42	desc. node			
desc. Hode	5226 Feb 25 12:22 5226 Mar 05 11:21	13°≈57'41 23°≈16'24	23°03'42	desc. node	5227 Feb 20 08:21	12° ≈ 48′08	
morning set	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26	13°≈57'41 23°≈16'24 0°¥	23°03'42		5227 Feb 20 08:21 5227 Mar 04 01:54	12° ≈ 48'08 0° 米	1.41807 AU
	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34	13°≈57'41 23°≈16'24 0°¥ 0°Y 3°Y13'34	23°03'42 1.39677 AU	morning set	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19	12°≈48'08 0°¥ 12°¥28'13	1.41807 AU
morning set	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24	13°≈57'41 23°≈16'24 0°¥ 0°Y 3°Y13'34		morning set	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30	12°≈48'08 0°¥ 12°¥28'13 22°¥53'40	1.41807 AU
morning set	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24	13°≈57'41 23°≈16'24 0°¥ 0°Y 3°Y13'34	1.39677 AU	morning set	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30	12°≈48'08 0°¥ 12°¥28'13 22°¥53'40	
morning set max. Earth dist.	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24 5226 Apr 05 12:18 5226 Apr 13 05:19	13°≈57'41 23°≈16'24 0°¥ 0°Y 3°Y13'34 10°Y34'12 24°Y19'13	1.39677 AU -1°46'01	morning set max. Earth dist.	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30 5227 Mar 22 18:02	12°≈48'08 0°ℋ 12°ℋ28'13 22°ℋ53'40 0°Ƴ	-2°03'54
morning set max. Earth dist.	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24 5226 Apr 05 12:18 5226 Apr 13 05:19 5226 Apr 13 10:22	13°≈57'41 23°≈16'24 0° ¥ 0° Y 3° Y13'34 10° Y34'12 24° Y19'13 24° Y42'24	1.39677 AU -1°46'01	morning set max. Earth dist. superior conj minimum elong	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30 5227 Mar 22 18:02 5227 Mar 26 02:17 5227 Mar 26 05:49	12°≈48'08 0°₩ 12°₩28'13 22°₩53'40 0°Ψ 5°Ψ45'48 6°Ψ01'10	-2°03'54
morning set max. Earth dist. superior conj minimum elong	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24 5226 Apr 05 12:18 5226 Apr 13 05:19 5226 Apr 13 10:22 5226 Apr 16 06:36	13°≈57'41 23°≈16'24 0° ¥ 0° Y 3° Y13'34 10° Y34'12 24° Y19'13 24° Y42'24 0° 8	1.39677 AU -1°46'01	morning set max. Earth dist. superior conj	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30 5227 Mar 22 18:02 5227 Mar 26 02:17 5227 Mar 26 05:49 5227 Apr 06 00:37	12°≈48'08 0°₩ 12°₩28'13 22°₩53'40 0°Ψ 5°Ψ45'48 6°Ψ01'10 25°Ψ24'48	-2°03'54
morning set max. Earth dist. superior conj minimum elong evening rise	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24 5226 Apr 05 12:18 5226 Apr 13 05:19 5226 Apr 13 10:22 5226 Apr 16 06:36 5226 Apr 22 20:14	13°≈57'41 23°≈16'24 0° ¥ 0° Y 3° Y13'34 10° Y34'12 24° Y19'13 24° Y42'24 0° 8 12° ¥31'13	1.39677 AU -1°46'01	morning set max. Earth dist. superior conj minimum elong evening rise	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30 5227 Mar 22 18:02 5227 Mar 26 02:17 5227 Mar 26 05:49 5227 Apr 06 00:37 5227 Apr 08 12:48	12°≈48'08 0°₩ 12°₩28'13 22°₩53'40 0°Ψ 5°Ψ45'48 6°Ψ01'10 25°Ψ24'48 0°₩	-2°03'54
morning set max. Earth dist. superior conj minimum elong	5226 Feb 25 12:22 5226 Mar 05 11:21 5226 Mar 10 11:26 5226 Mar 30 05:34 5226 Apr 01 04:24 5226 Apr 05 12:18 5226 Apr 13 05:19 5226 Apr 13 10:22 5226 Apr 16 06:36	13°≈57'41 23°≈16'24 0° ¥ 0° Y 3° Y13'34 10° Y34'12 24° Y19'13 24° Y42'24 0° 8	1.39677 AU -1°46'01	morning set max. Earth dist. superior conj minimum elong	5227 Feb 20 08:21 5227 Mar 04 01:54 5227 Mar 12 02:19 5227 Mar 18 12:30 5227 Mar 22 18:02 5227 Mar 26 02:17 5227 Mar 26 05:49 5227 Apr 06 00:37	12°≈48'08 0°₩ 12°₩28'13 22°₩53'40 0°Ψ 5°Ψ45'48 6°Ψ01'10 25°Ψ24'48	-2°03'54 2°03'46

retrograde	5227 Apr 29 06:08	24° 8 49'50		retrograde	5228 Apr 11 09:03	7° 8 54'28	
evening set	5227 May 01 18:41	24° 8 22'17		evening set	5228 Apr 14 03:58	7° 8 15'46	
inferior conj	5227 May 08 15:36	19° 8 32'57	2°42'25	inferior conj	5228 Apr 20 10:52	2° 8 06'41	3°18'27
minimum elong	5227 May 08 18:54	19° 8 25'27	2°41'40	minimum elong	5228 Apr 20 12:51	2° 8 01'32	3°18'11
min. Earth dist.	5227 May 11 23:48	16° 8 31'51	0.60080 AU		5228 Apr 22 11:25	30° ₹Ƴ	
morning rise	5227 May 15 16:37	13° 8 45'28		min. Earth dist.	5228 Apr 23 08:40	29° Y ′06′11	0.62264 AU
desc. node	5227 May 19 07:36	12° 8 08'14		morning rise	5228 Apr 26 20:09	26° Y ′03′25	
direct	5227 May 22 04:57	11° 8 44'31		direct	5228 May 03 16:02	23° Y 33'40	
morning max el	5227 Jun 05 13:06	19° 8 37'58	27°38'30	desc. node	5228 May 05 04:38	23° Y '40'37	
	5227 Jun 14 08:56	$\Pi^{\circ}0$			5228 May 16 03:24	0°8	
	5227 Jul 02 15:40	0°ಅ		morning max el	5228 May 17 18:38	1° 8 34'12	27°52'46
morning set	5227 Jul 07 11:17	9° © 40'19		Č	5228 Jun 07 14:44	Π°	
asc. node	5227 Jul 09 23:29	14° © 57'57		morning set	5228 Jun 20 12:44	23° Ⅱ 55'04	
max. Earth dist.	5227 Jul 13 18:46	23° © 14'16	1.31957 AU	. 8	5228 Jun 23 11:17	0°©	
man Darun Gibt.	0227 Val 15 10.10	25 01110	1.51707110	asc. node	5228 Jun 25 20:32	5° © 04'35	
superior conj	5227 Jul 14 15:54	25° © 10'37	0°47'12	max. Earth dist.	5228 Jun 26 02:31	5°936'46	1.32360 AU
minimum elong	5227 Jul 14 14:00	25°900'10	0°46'48	max. Earth dist.	3220 Juli 20 02.31	3 30 40	1.52500 710
minimum clong	5227 Jul 14 14:00 5227 Jul 16 20:21	0°Ω	0 40 40	gunariar agni	5228 Jun 28 01:22	9° © 50'38	0°22'46
avanina riaa				superior conj		9° 9 3038	
evening rise	5227 Jul 21 11:02	10° Ω 01'46		minimum elong	5228 Jun 28 00:19		0°22'32
	5227 Jul 31 15:53	0° m/y		evening rise	5228 Jul 04 22:42	24° © 49'03	
desc. node	5227 Aug 15 06:51	21° m, 00'59			5228 Jul 07 09:58	0° N	
evening max el	5227 Aug 18 01:26	23° m 51'54	25°40'28		5228 Jul 25 11:57	0° m	
	5227 Aug 27 01:31	0∘ ⊽		evening max el	5228 Jul 29 14:55	4° ™ 28'04	24°10'37
retrograde	5227 Sep 01 00:16	0° ჲ 57'35		desc. node	5228 Aug 01 03:53	6° Mp 43′10	
	5227 Sep 05 22:32	30°R, Mp		retrograde	5228 Aug 12 10:03	11° m)24'54	
evening set	5227 Sep 07 02:30	29° Mg 30'22		evening set	5228 Aug 17 03:52	10° m 35'01	
min. Earth dist.	5227 Sep 11 13:28	26° Mp 53′22	0.58220 AU	min. Earth dist.	5228 Aug 23 01:38	7° ™ 39'00	0.56398 AU
inferior conj	5227 Sep 14 17:16	24° m 39'09	-5°09'34	inferior conj	5228 Aug 25 13:34	6° Mp 05′53	-5°15'31
minimum elong	5227 Sep 14 20:50	24° m 32'47	5°09'13	minimum elong	5228 Aug 25 11:20	6° Mp 09′24	5°15'25
morning rise	5227 Sep 22 17:27	20° m 19'11		morning rise	5228 Sep 02 21:18	2° Mp 06'21	
direct	5227 Sep 25 04:17	20° m 00'17		direct	5228 Sep 05 14:24	1° m 47'03	
morning max el	5227 Oct 03 14:49	24° mp 01'51	18°45'15	morning max el	5228 Sep 15 10:01	6° Mp 22′01	19°44'38
asc. node	5227 Oct 05 22:43	26° m 32'11		asc. node	5228 Sep 21 19:46	14° m y 11'49	
	5227 Oct 08 13:43	0∘ <u>ଫ</u>			5228 Sep 30 18:02	0∘ ⊽	
morning set	5227 Oct 19 23:34	20° ≏ 13'08		morning set	5228 Oct 03 02:44	4° ≏ 43'16	
3	5227 Oct 24 23:47	0° M ₊		. 8			
				superior conj	5228 Oct 10 23:23	20° ჲ 35'27	1°39'14
superior conj	5227 Oct 28 13:55	6°M52'36	1°26'48	minimum elong	5228 Oct 11 01:02	20° Ω 43'39	
minimum elong	5227 Oct 28 17:04	7°M07'29		minimum crong	5228 Oct 15 19:53	0°M	1 37 10
max. Earth dist.	5227 Nov 04 17:36	19°M57'22	1.39483 AU	max. Earth dist.	5228 Oct 16 22:22		1.37387 AU
evening rise			1.57465 AC	max. Lai in dist.	3226 Oct 10 22.22		1.5/50/ AU
evening rise		76°III 50'/19		evening rise	5228 Oct 20 16:39		
	5227 Nov 08 17:12	26°M,50'49		evening rise	5228 Oct 20 16:39	8°M56'49	
	5227 Nov 10 14:16	0° ∡ 7		evening rise desc. node	5228 Oct 28 03:07	8°ጤ56'49 21°ጤ40'41	
desc. node	5227 Nov 10 14:16 5227 Nov 11 06:06	0° ₰ 1° ₰ 05'40		•	5228 Oct 28 03:07 5228 Nov 02 08:45	8°ጤ56'49 21°ጤ40'41 0° አ ባ	
	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37	0°♬ 1°♬05'40 0°중	24011117	desc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17	8°M56'49 21°M40'41 0°ズ 0°る	2502(100
evening max el	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51	0°ダ 1°ダ05'40 0°る 16°る19'10	24°11'16	desc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25	8°肌56'49 21°肌40'41 0°メ 0°る 0°る02'45	25°26'08
evening max el retrograde	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02	0°ダ 1°ダ05'40 0°G 16°G19'10 22°G52'52	24°11'16	desc. node evening max el retrograde	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47	8°肌56'49 21°肌40'41 0°メ 0°る 0°る02'45 7°る02'06	25°26′08
evening max el retrograde evening set	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42	0°ダ 1°ダ05'40 0°उ 16°उ19'10 22°उ52'52 20°उ39'50	24°11'16	desc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53	8°M56'49 21°M40'41 0°ダ 0°ರ 0°ರ02'45 7°ರ02'06 4°ರ35'35	25°26'08
evening max el retrograde evening set asc. node	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16		desc. node evening max el retrograde evening set	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44	8°M56'49 21°M40'41 0°ダ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rダ	
evening max el retrograde evening set asc. node min. Earth dist.	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58	0° 조 1°조05'40 0°당 16°당19'10 22°당52'52 20°당39'50 18°당01'16 15°당14'04	0.67876 AU	evening max el retrograde evening set min. Earth dist.	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42	8°M56'49 21°M40'41 0°ダ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rダ 29°ダ44'09	25°26'08 0.67272 AU
evening max el retrograde evening set asc. node min. Earth dist. inferior conj	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59	0°ダ 1°ダ05'40 0°उ 16°उ19'10 22°उ52'52 20°उ39'50 18°उ01'16 15°उ14'04 14°उ13'18	0.67876 AU 0°58'19	desc. node evening max el retrograde evening set min. Earth dist. asc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01	8°M56'49 21°M40'41 0°メ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rメ 29°メ44'09 28°メ29'03	0.67272 AU
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39	0°ダ 1°ダ05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48	0.67876 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:40	8°M56'49 21°M40'41 0°メ 0°る 0°る02'45 7°る02'06 4°る35'35 30°Rメ 29°メ44'09 28°メ29'03 28°メ10'50	0.67272 AU 0°04'48
evening max el retrograde evening set asc. node min. Earth dist. inferior conj	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16 15°℧14'04 14°℧13'18 14°℧17'48 8°℧10'32	0.67876 AU 0°58'19	desc. node evening max el retrograde evening set min. Earth dist. asc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01	8°M56'49 21°M40'41 0°メ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rメ 29°メ44'09 28°メ29'03	0.67272 AU
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39	0°ダ 1°ダ05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48	0.67876 AU 0°58'19	evening max el retrograde evening set min. Earth dist. asc. node inferior conj	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:40	8°M56'49 21°M40'41 0°メ 0°る 0°る02'45 7°る02'06 4°る35'35 30°Rメ 29°メ44'09 28°メ29'03 28°メ10'50	0.67272 AU 0°04'48 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16 15°℧14'04 14°℧13'18 14°℧17'48 8°℧10'32	0.67876 AU 0°58'19 0°57'48	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32	8°M.56'49 21°M.40'41 0°メー 0°る02'45 7°る02'06 4°る35'35 30°Rメー 29°メー44'09 28°メー29'03 28°メー10'50 28°メー11'14	0.67272 AU 0°04'48 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 14 02:14	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16 15°℧14'04 14°℧13'18 14°℧17'48 8°℧10'32 6°℧44'02	0.67876 AU 0°58'19 0°57'48	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32	8°M.56'49 21°M.40'41 0°メ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rメ 29°メ44'09 28°メ29'03 28°メ10'50 28°メ11'14	0.67272 AU 0°04'48 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 14 02:14 5228 Jan 21 22:33	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16 15°℧14'04 14°℧13'18 14°℧17'48 8°℧10'32 6°℧44'02 11°℧12'22	0.67876 AU 0°58'19 0°57'48	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 18 21:52	8°M.56'49 21°M.40'41 0°ダ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rダ 29°ダ44'09 28°ダ29'03 28°ダ10'50 28°ダ11'14 28°ダ11'14	0.67272 AU 0°04'48 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 14 02:14 5228 Jan 21 22:33 5228 Feb 05 08:08	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈	0.67876 AU 0°58'19 0°57'48	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 18 21:52 5228 Dec 19 03:13	8°M.56'49 21°M.40'41 0°\$\tilde{X}\$ 0°\$\tilde{G}\$ 0°\$\tilde{G}\$02'45 7°\$\tilde{G}\$02'06 4°\$\tilde{G}\$35'35 30°\tilde{X}\$ 29°\$\tilde{X}\$44'09 28°\$\tilde{X}\$10'50 28°\$\tilde{X}\$11'14 28°\$\tilde{X}\$11'14 28°\$\tilde{X}\$19'51 28°\$\tilde{X}\$02'37	0.67272 AU 0°04'48 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈ 2°≈46'24	0.67876 AU 0°58'19 0°57'48	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 18 21:52 5228 Dec 19 03:13 5228 Dec 24 15:32	8°M.56'49 21°M.40'41 0°ズ 0°G02'45 7°G02'06 4°G35'35 30°Rズ 29°ズ44'09 28°ズ10'50 28°ズ11'14 28°ズ19'51 28°ズ10'37 22°ズ15'32	0.67272 AU 0°04'48 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈ 2°≈46'24 20°≈45'48	0.67876 AU 0°58'19 0°57'48	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 18 21:52 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02	8°M.56'49 21°M.40'41 0° ₹ 0°502'45 7°502'06 4°535'35 30°R.₹ 29° ₹44'09 28° ₹10'50 28° ₹11'14 28° ₹11'14 28° ₹02'37 22° ₹15'32 21° ₹09'05	0.67272 AU 0°04'48 0°04'46 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16 15°℧14'04 14°℧13'18 14°℧17'48 8°℧10'32 6°℧44'02 11°℧12'22 0°窓 2°窓46'24 20°窓45'48 0°沃	0.67876 AU 0°58'19 0°57'48 20°21'18	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 03:13 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07	8°M.56'49 21°M.40'41 0° ₹ 0°♂ 0°♂02'45 7°♂02'06 4°♂35'35 30°R.₹ 29° ₹44'09 28° ₹10'50 28° ₹11'14 28° ₹11'14 28° ₹19'51 28° ₹02'37 22° ₹15'32 21° ₹09'05 25° ₹06'06	0.67272 AU 0°04'48 0°04'46 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54	0°ダ 1°ダ05'40 0°℧ 16°℧19'10 22°℧52'52 20°℧39'50 18°℧01'16 15°℧14'04 14°℧13'18 14°℧17'48 8°℧10'32 6°℧44'02 11°℧12'22 0°窓 2°窓46'24 20°窓45'48 0°沃	0.67876 AU 0°58'19 0°57'48 20°21'18	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 03:13 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53	8°M.56'49 21°M.40'41 0° ₹ 0°♂ 0°♂02'45 7°♂02'06 4°♂35'35 30°R.₹ 29° ₹44'09 28° ₹10'50 28° ₹11'14 28° ₹11'14 28° ₹19'51 28° ₹02'37 22° ₹15'32 21° ₹09'05 25° ₹06'06 0°♂	0.67272 AU 0°04'48 0°04'46 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54 5228 Feb 28 19:49	0° ₹ 1° ₹05'40 0° ₹ 16° ₹19'10 22° ₹52'52 20° ₹39'50 18° ₹01'16 15° ₹14'04 14° ₹13'18 14° ₹17'48 8° ₹10'32 6° ₹44'02 11° ₹12'22 0° ≈ 2° ≈46'24 20° ≈45'48 0° ¥ 6° ¥06'11	0.67876 AU 0°58'19 0°57'48 20°21'18 1.43586 AU -2°08'42	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy desc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 17 19:42 5228 Dec 18 19:01 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53 5229 Jan 17 11:18 5229 Jan 24 02:23	8°M.56'49 21°M.40'41 0° ¾ 0°♂ 0°♂02'45 7°♂02'06 4°♂35'35 30°R.¾ 29°¾44'09 28°¾29'03 28°¾10'50 28°¾11'14 28°¾11'14 28°¾19'51 28°¾09'05 25°¾06'06 0°♂ 12°♂56'35	0.67272 AU 0°04'48 0°04'46 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 04 01:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54 5228 Mar 05 22:55 5228 Mar 05 21:41	0° ₹ 1° ₹05'40 0° ₹ 16° ₹19'10 22° ₹52'52 20° ₹39'50 18° ₹01'16 15° ₹14'04 14° ₹13'18 14° ₹17'48 8° ₹10'32 6° ₹44'02 11° ₹12'22 0° ≈ 2° ≈ 46'24 20° ≈ 45'48 0° ¥ 6° ¥06'11	0.67876 AU 0°58'19 0°57'48 20°21'18 1.43586 AU -2°08'42	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 18 21:52 5228 Dec 18 21:52 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53 5229 Jan 17 11:18 5229 Jan 28 01:28	8°M.56'49 21°M.40'41 0°ズ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rズ 29°ズ44'09 28°ズ29'03 28°ズ10'50 28°ズ11'14 28°ズ11'14 28°ズ11'14 28°ズ19'51 28°ズ02'37 22°ズ15'32 21°ズ09'05 0°G 12°G56'35 23°G03'28	0.67272 AU 0°04'48 0°04'46 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 14 02:14 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54 5228 Mar 05 22:55 5228 Mar 05 21:41 5228 Mar 14 04:23	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈ 2°≈46'24 20°≈45'48 0°∀ 6°∀06'11 16°∀05'45 16°∀00'38 0°♥	0.67876 AU 0°58'19 0°57'48 20°21'18 1.43586 AU -2°08'42	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy desc. node morning set	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53 5229 Jan 17 11:18 5229 Jan 28 01:28 5229 Jan 28 01:28 5229 Jan 28 01:28	8°M.56'49 21°M.40'41 0°ズ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rズ 29°ズ44'09 28°ズ29'03 28°ズ10'50 28°ズ11'14 28°ズ11'14 28°ズ19'51 28°ズ02'37 22°ズ15'32 21°ズ09'05 25°ズ06'06 0°G 12°G56'35 23°G03'28 29°G10'40 0°≈	0.67272 AU 0°04'48 0°04'46 0°04'46 -0.7m
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 14 02:14 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54 5228 Mar 05 22:55 5228 Mar 05 21:41 5228 Mar 14 04:23 5228 Mar 18 12:17	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈ 2°≈46'24 20°≈45'48 0°升 6°升06'11 16°升06'45 16°升00'38 0°Ŷ 7°Ŷ30'46	0.67876 AU 0°58'19 0°57'48 20°21'18 1.43586 AU -2°08'42	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy desc. node	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 18 21:52 5228 Dec 18 21:52 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53 5229 Jan 17 11:18 5229 Jan 28 01:28	8°M.56'49 21°M.40'41 0°ズ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rズ 29°ズ44'09 28°ズ29'03 28°ズ10'50 28°ズ11'14 28°ズ11'14 28°ズ19'51 28°ズ02'37 22°ズ15'32 21°ズ09'05 25°ズ06'06 0°G 12°G56'35 23°G03'28 29°G10'40 0°≈	0.67272 AU 0°04'48 0°04'46 0°04'46
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 14 02:14 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54 5228 Mar 05 22:55 5228 Mar 05 21:41 5228 Mar 14 04:23 5228 Mar 18 12:17 5228 Mar 29 21:16	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈ 2°≈46'24 20°≈45'48 0°升 6°升06'11 16°升00'38 0°Ŷ 7°Ŷ30'46 26°Ŷ43'50	0.67876 AU 0°58'19 0°57'48 20°21'18 1.43586 AU -2°08'42	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53 5229 Jan 24 02:23 5229 Jan 28 01:28 5229 Jan 28 14:12 5229 Feb 10 09:31	8°M.56'49 21°M.40'41 0°ズ 0°G02'45 7°G02'06 4°G35'35 30°Rズ 29°ズ44'09 28°ズ10'50 28°ズ11'14 28°ズ11'14 28°ズ19'51 28°ズ02'37 22°ズ15'32 21°ズ09'05 25°ズ06'06 0°G 12°G56'35 23°G03'28 29°G10'40 0°≈ 19°≈59'44	0.67272 AU 0°04'48 0°04'46 0°04'46 19°18'49 -0.7m
evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	5227 Nov 10 14:16 5227 Nov 11 06:06 5227 Nov 30 09:37 5227 Dec 13 20:51 5227 Dec 25 01:02 5227 Dec 30 08:42 5228 Jan 01 21:58 5228 Jan 04 19:59 5228 Jan 04 18:39 5228 Jan 10 04:40 5228 Jan 10 04:40 5228 Jan 14 02:14 5228 Jan 21 22:33 5228 Feb 05 08:08 5228 Feb 07 05:22 5228 Feb 19 02:08 5228 Feb 24 23:54 5228 Mar 05 22:55 5228 Mar 05 21:41 5228 Mar 14 04:23 5228 Mar 18 12:17	0°♂ 1°♂05'40 0°♂ 16°♂19'10 22°♂52'52 20°♂39'50 18°♂01'16 15°♂14'04 14°♂13'18 14°♂17'48 8°♂10'32 6°♂44'02 11°♂12'22 0°≈ 2°≈46'24 20°≈45'48 0°升 6°升06'11 16°升06'45 16°升00'38 0°Ŷ 7°Ŷ30'46	0.67876 AU 0°58'19 0°57'48 20°21'18 1.43586 AU -2°08'42 2°08'41	desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy desc. node morning set	5228 Oct 28 03:07 5228 Nov 02 08:45 5228 Nov 25 08:17 5228 Nov 25 09:25 5228 Dec 07 12:47 5228 Dec 13 09:53 5228 Dec 17 14:44 5228 Dec 18 19:01 5228 Dec 19 00:40 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 00:32 5228 Dec 19 03:13 5228 Dec 24 15:32 5228 Dec 28 01:02 5229 Jan 04 03:07 5229 Jan 08 08:53 5229 Jan 17 11:18 5229 Jan 28 01:28 5229 Jan 28 01:28 5229 Jan 28 01:28	8°M.56'49 21°M.40'41 0°ズ 0°G 0°G02'45 7°G02'06 4°G35'35 30°Rズ 29°ズ44'09 28°ズ29'03 28°ズ10'50 28°ズ11'14 28°ズ11'14 28°ズ19'51 28°ズ02'37 22°ズ15'32 21°ズ09'05 25°ズ06'06 0°G 12°G56'35 23°G03'28 29°G10'40 0°≈	0.67272 AU 0°04'48 0°04'46 0°04'46 19°18'49 -0.7m 1.44804 AU -1°55'09

	5229 Feb 16 16:28	0°) €		evening rise	5230 Feb 08 18:02	28°≈53'28	
evening rise	5229 Feb 28 02:49	18°) 40′34		evening rise	5230 Feb 08 18:02 5230 Feb 09 10:48	20 ≈33 20 0° H	
evening rise	5229 Ner 06 22:41	10 Λ 40 34		greatest brilliancy	5230 Feb 17 19:25	13°) 14'51	-0.8m
asc. node	5229 Mar 16 18:19	14° Υ 51'30		greatest offinancy	5230 Mar 01 13:11	13 χ1431 0°Υ	-0.8111
	5229 Mar 19 10:40	17° Y 55'45	18°23'40	avanina may al		1°Υ25'55	18°57'30
evening max el		21° Y 25'33	18 23 40	evening max el	5230 Mar 02 20:59 5230 Mar 03 15:20	1 1 23 33 2° Υ 10'47	18 3/30
retrograde	5229 Mar 25 21:43			asc. node		2° γ 1047 5° γ 15'15	
evening set	5229 Mar 28 22:58	20° Υ 34'28	2022100	retrograde	5230 Mar 09 16:21	5° γ 15 15 4° γ 10'54	
inferior conj	5229 Apr 03 19:44	15° Υ 07'04	3°32'09	evening set	5230 Mar 13 00:24		
minimum elong	5229 Apr 03 20:05	15° Υ 06'03	3°32'07		5230 Mar 17 08:16	30° ₹	2020110
min. Earth dist.	5229 Apr 06 02:50	12° Υ 28'01	0.64224 AU	inferior conj	5230 Mar 18 14:25		3°28'49
morning rise	5229 Apr 09 16:22	8°Y56'02		minimum elong	5230 Mar 18 13:24	28°) (29'51	
direct	5229 Apr 16 11:30	6° Y 09′28		min. Earth dist.	5230 Mar 20 05:53	26°) €22'43	0.65824 AU
desc. node	5229 Apr 22 01:39	7° Y 43'34		morning rise	5230 Mar 24 01:59	22°) 12'29	
morning max el	5229 Apr 30 03:42		27°30'27	direct	5230 Mar 30 13:44	19° ∺ 22'58	
	5229 May 13 00:16	0°B		desc. node	5230 Apr 08 22:40	23°) 44'01	
	5229 May 31 05:37	$\Pi^{\circ}0$		morning max el	5230 Apr 12 13:38	27°) €04'43	26°37'22
morning set	5229 Jun 04 06:20	7° Ⅱ 44'00			5230 Apr 15 07:18	0° Υ	
max. Earth dist.	5229 Jun 09 02:58	17° Ⅱ 34'51	1.33214 AU		5230 May 06 15:49	9° 8	
				morning set	5230 May 18 12:41	20° 8 56'02	
superior conj	5229 Jun 12 06:56	24° Ⅱ 15'14	-0°04'37	max. Earth dist.	5230 May 22 16:52	29° 8 01'51	1.34542 AU
minimum elong	5229 Jun 12 07:10	24° Ⅱ 16′29	0°04'35		5230 May 23 04:34	Π $^{\circ}0$	
behind sun begin	5229 Jun 12 01:57	23° Ⅱ 48'38					
behind sun end	5229 Jun 12 12:24	24° Ⅱ 44'21		superior conj	5230 May 27 06:17	8° Ⅱ 16'36	-0°33'58
asc. node	5229 Jun 12 17:35	25° Ⅱ 12'04		minimum elong	5230 May 27 08:07	8° Ⅱ 26′08	0°33'36
	5229 Jun 14 23:16	0°€		asc. node	5230 May 30 14:36	15° Ⅱ 15'33	
evening rise	5229 Jun 19 10:14	9° 5 32'24		evening rise	5230 Jun 03 19:36	24° Ⅲ 04'39	
	5229 Jun 30 01:21	$0^{\circ}\Omega$		-	5230 Jun 06 17:04	0°€	
evening max el	5229 Jul 11 04:26	14° Ω 49'35	22°32'59	evening max el	5230 Jun 23 01:46	25° © 27'56	21°02'26
desc. node	5229 Jul 19 00:55	20° Ω 17'14		C	5230 Jun 29 08:22	$0^{\circ}\Omega$	
retrograde	5229 Jul 24 07:14	21° Ω 21'02		retrograde	5230 Jul 04 19:50	1° Ω 14'54	
evening set	5229 Jul 27 12:39	20° Ω 58'10		desc. node	5230 Jul 05 21:57	1° Ω 12'04	
min. Earth dist.	5229 Aug 04 11:52		0.55165 AU	evening set	5230 Jul 07 00:52	1° Ω 03'25	
inferior conj	5229 Aug 05 15:49	16° Ω 49'23			5230 Jul 10 15:40	30°Rூ	
minimum elong	5229 Aug 05 07:51	17° Ω 00'43		inferior conj	5230 Jul 16 08:58	27° © 05'53	-3°01'22
morning rise	5229 Aug 14 05:01	12° Ω 59'25	7 31 77	minimum elong	5230 Jul 16 00:58	27° © 17'09	2°58'45
direct	5229 Aug 17 07:14	$12^{\circ} \Omega 37'32$		min. Earth dist.	5230 Jul 16 22:23	26°546'58	0.54794 AU
morning max el	5229 Aug 17 07:14 5229 Aug 28 17:03	17° Ω 56'42	21°05'14	morning rise	5230 Jul 25 01:16	23° © 07'36	0.54774 AO
morning max ci	5229 Aug 28 17:03 5229 Sep 07 02:52	0° m	21 03 14	direct	5230 Jul 28 16:21	23° © 39'18	
asc. node	5229 Sep 07 02:32 5229 Sep 08 16:49	2° Mp 37'50		morning max el	5230 Aug 10 13:01	28° © 47'09	22042140
morning set	5229 Sep 17 10:44	19° Mp 26'54		morning max ci	5230 Aug 10 13:01 5230 Aug 11 18:57	0°Ω	22 4249
morning set	-	0° ⊽		asc. node	5230 Aug 11 18:57 5230 Aug 26 13:51	21° Ω 38'19	
	5229 Sep 22 11:54	0 ==		asc. node	5230 Aug 20 13:51 5230 Aug 30 19:50		
:	5220 C 24 10:40	49 O 40140	1942125		2	0° Mp 4° Mp 17′35	
superior conj	5229 Sep 24 19:40	4° Ω 49'49	1°43'25	morning set	5230 Sep 01 21:26	4-11/1/35	
minimum elong	5229 Sep 24 19:48	4° £ 50′28	1°43'26		5220 C 00 22 20	100 m- 24/50	1040120
max. Earth dist.	5229 Sep 29 07:48	13° £ 56'51	1.35508 AU	superior conj	5230 Sep 08 23:20	19° Mp 24'58	1°40'39
evening rise	5229 Oct 03 10:55	21° £ 54'58		minimum elong	5230 Sep 08 22:13	19° Mp 19'02	1°40'36
	5229 Oct 07 21:08	0°M		max. Earth dist.	5230 Sep 12 01:37	•	1.33981 AU
desc. node	5229 Oct 15 00:10	12°M02'48			5230 Sep 14 01:02	0° ⊽	
	5229 Oct 27 04:05	0° ⊀ 7	2.02012#	evening rise	5230 Sep 16 19:40	5° Ω 33'14	
evening max el	5229 Nov 07 22:14	13° 🖈 45'23	26°28'37		5230 Sep 30 13:28	0°M	
retrograde	5229 Nov 20 19:17	20° 🖈 58'43		desc. node	5230 Oct 01 21:13	2°M05'24	25011110
evening set	5229 Nov 27 05:23	18° ₹ 22'30		evening max el	5230 Oct 21 10:59	27°M17'37	27°11'18
min. Earth dist.	5229 Dec 01 08:30	14° ₹ 06'14	0.66319 AU		5230 Oct 24 12:44	0° ∡ ¹	
inferior conj	5229 Dec 03 00:47	12° ∡ 04'42		retrograde	5230 Nov 03 19:52	4° ∡ ³35′23	
minimum elong	5229 Dec 03 02:16	12° ≯ 00'13	0°53'14	evening set	5230 Nov 10 16:58	1° ≯ 55'32	
asc. node	5229 Dec 05 16:03	9° ∡ 03'10			5230 Nov 12 21:12	30°RM	
morning rise	5229 Dec 08 23:49	6° ≯ 19'28		min. Earth dist.	5230 Nov 14 13:55	28°M14'28	0.65013 AU
direct	5229 Dec 11 23:15	5° ₹ 29'34		inferior conj	5230 Nov 16 18:06	25°M49'59	
morning max el	5229 Dec 18 14:20	9° ₰ 06′20	18°32'11	minimum elong	5230 Nov 16 21:28	25°M40'38	1°54'55
	5230 Jan 02 10:19	0°ರ		asc. node	5230 Nov 22 13:04	20°M35'49	
morning set	5230 Jan 07 23:15	8° る 47'45		morning rise	5230 Nov 23 03:05	20°M17'56	
desc. node	5230 Jan 10 23:24	13° る 34'08		direct	5230 Nov 25 18:37	19° M 40'46	
	5230 Jan 21 09:32	0° ≈		morning max el	5230 Dec 02 05:50	23°M07'15	18°02'20
					5230 Dec 07 17:40	0°⊀	
superior conj	5230 Jan 23 22:40	3° ≈ 59'40	-1°22'14	morning set	5230 Dec 20 02:46	19° ₰ 54'06	
minimum elong	5230 Jan 23 13:30	3° ≈ 23'45	1°21'13		5230 Dec 26 05:54	5°0	
max. Earth dist.	5230 Jan 24 03:47	4° ≈ 19'46	1.45328 AU	desc. node	5230 Dec 28 20:26	4° ප 14'10	

superior conj	5231 Jan 03 06:36	12° る 56'12	-0°37'08	behind sun end	5231 Dec 14 20:34	23° ∡ ³33′28	
minimum elong	5231 Jan 03 02:02	12° る 38'05	0°36'29	desc. node	5231 Dec 15 17:28	24° ₹ ′59′22	
max. Earth dist.	5231 Jan 06 23:37	18° る 48'23	1.45103 AU		5231 Dec 18 19:20	0°₹	
	5231 Jan 14 03:27	0° ≈		max. Earth dist.	5231 Dec 20 17:28	3° る 05'21	1.44163 AU
evening rise	5231 Jan 19 13:15	8° ≈ 22'31		evening rise	5231 Dec 29 23:22	17° る 35'24	
greatest brilliancy	5231 Feb 02 06:12	29°≈16′26	-0.7m		5232 Jan 07 03:24	0° ≈	
	5231 Feb 02 17:58	0° ∺		evening max el	5232 Jan 28 03:33	28° ≈ 33'10	20°51'39
evening max el	5231 Feb 14 03:00	14°) € 59'14	19°47'35		5232 Jan 29 15:29	0° ∀	
asc. node	5231 Feb 18 12:21	18° ∺ 28'35		asc. node	5232 Feb 05 09:22	3°) (29′29	
retrograde	5231 Feb 21 13:59	19°) 18′22		retrograde	5232 Feb 05 12:17	3°) €29'34	
evening set	5231 Feb 25 05:52	17° ¥ 59'57	2012/22	evening set	5232 Feb 09 13:18	1° ¥ 56′25	
inferior conj	5231 Mar 02 15:51	12° ₩ 00'50		: <i>c</i> :	5232 Feb 11 14:10	30°R≈ 25°2245104	2945126
minimum elong	5231 Mar 02 13:55	12° ₭ 07'17		inferior conj	5232 Feb 14 21:30	25°≈45'04	2°45'26
min. Earth dist.	5231 Mar 03 16:35	10° 米 38′29 5° 米 46′07	0.67001 AU	minimum elong	5232 Feb 14 19:08	25°≈53'14	
morning rise direct	5231 Mar 07 21:46 5231 Mar 13 21:44	3° ∺ 05'26		min. Earth dist.	5232 Feb 15 08:58 5232 Feb 20 00:48	25°≈05'35 19°≈31'30	0.67749 AU
morning max el	5231 Mar 25 22:55	10° X 17'13	25022115	morning rise direct	5232 Feb 20 00.48 5232 Feb 25 10:48	19 ≈31 30 17°≈07'49	
desc. node	5231 Mar 26 19:40	10 X 17 13	23 22 13	morning max el	5232 Mar 07 07:41	23°≈36'57	23°55'12
desc. Hode	5231 Apr 10 14:11	11 γ (1043		desc. node	5232 Mar 12 16:41	23 ≈30 37 29°≈38'48	23 33 12
	5231 Apr 10 14:11 5231 Apr 29 06:50	0°8		desc. Hode	5232 Mar 12 10:41 5232 Mar 12 23:38	0°)	
morning set	5231 May 01 03:24	3° 8 19'24			5232 Apr 02 23:48	0° Υ	
max. Earth dist.	5231 May 04 19:59	10° 8 07'28	1.36314 AU	morning set	5232 Apr 11 20:54	14° Y '38'45	
max. Earth dist.	3231 Way 04 17.37	10 007 20	1.30314 AC	max. Earth dist.	5232 Apr 11 20:34 5232 Apr 15 16:02	21° Υ 16'43	1.38409 AU
superior conj	5231 May 10 20:40	21° 8 47'27	-1°03'50	max. Latur dist.	5232 Apr 19 10:02 5232 Apr 20 11:12	0°8	1.30407 AC
minimum elong	5231 May 10 20:40 5231 May 11 00:13	22° 8 05'06			3232 ripi 20 11.12	ů O	
minimum ciong	5231 May 14 00:13	0°II	1 03 13	superior conj	5232 Apr 22 22:33	4° 8 38'27	-1°31'55
asc. node	5231 May 17 22:31 5231 May 17 11:38	5° I 11'15		minimum elong	5232 Apr 23 03:24	5° 8 01'25	
evening rise	5231 May 19 00:42	8° Ⅱ 19'34		evening rise	5232 May 01 22:53	22° 8 09'32	1 3117
e vennig rise	5231 May 30 23:30	0°9		asc. node	5232 May 03 08:40	24° 8 54'26	
evening max el	5231 Jun 05 11:16	6°544'23	19°48'23		5232 May 06 00:20	0°II	
retrograde	5231 Jun 15 12:13	11° © 39'03		evening max el	5232 May 18 08:33	18° Ⅱ 42'53	18°54'25
evening set	5231 Jun 17 10:11	11° © 29'06		retrograde	5232 May 26 19:33	22° Ⅲ 51'46	
desc. node	5231 Jun 22 18:57	9° © 30'42		evening set	5232 May 28 21:09	22° Ⅲ 37'53	
inferior conj	5231 Jun 26 07:34	7° 5 27'14	-1°03'20	inferior conj	5232 Jun 05 23:35	18° Ⅲ 20'45	0°46'45
minimum elong	5231 Jun 26 04:38	7° © 31'44		minimum elong	5232 Jun 06 01:22	18° Ⅱ 17'33	0°46'07
min. Earth dist.	5231 Jun 28 10:51	6° 5 08'26	0.55383 AU	desc. node	5232 Jun 08 15:56	16° Ⅲ 26′16	
morning rise	5231 Jul 04 21:02	3° 5 01'16		min. Earth dist.	5232 Jun 09 02:49	16° Ⅱ 07'32	0.56816 AU
direct	5231 Jul 09 06:28	2° © 18'47		morning rise	5232 Jun 14 02:15	13° Ⅲ 18′17	
morning max el	5231 Jul 23 03:07	9° © 11'07	24°26'57	direct	5232 Jun 19 10:06	12° Ⅲ 10′14	
	5231 Aug 07 12:34	0 \circ Ω		morning max el	5232 Jul 03 17:50	19° Ⅲ 36′09	26°02'13
asc. node	5231 Aug 13 10:52	11° Ω 04'35			5232 Jul 12 13:56	0 \circ \odot	
morning set	5231 Aug 17 09:10	19° Ω 10′20			5232 Jul 29 22:20	0 $^{\circ}$ Ω	
	5231 Aug 22 09:23	O° m y		asc. node	5232 Jul 30 07:55	0° Ω 49'36	
				morning set	5232 Jul 31 20:18	4° Ω 00′16	
superior conj	5231 Aug 24 07:46	4° الله 13'03					
minimum elong	5231 Aug 24 05:50	4° Mp 02'32	1°31'44	superior conj	5232 Aug 07 18:51	19° Ω 07'23	1°18'04
max. Earth dist.	5231 Aug 26 03:55	8° Mp 12'19	1.32867 AU	minimum elong	5232 Aug 07 16:34	18° Ω 54'46	
evening rise	5231 Aug 31 15:07	19° mp 41'25		max. Earth dist.	5232 Aug 08 12:20	20° Ω 43'37	1.32178 AU
	5231 Sep 05 21:28	0∘ ⊽			5232 Aug 12 18:41	0° m)	
desc. node	5231 Sep 18 18:15	21° ≙ 40'02		evening rise	5232 Aug 14 18:10	4° m 10'48	
	5231 Sep 24 17:16	0°M	25025110		5232 Aug 28 14:33	0° ⊽	
evening max el	5231 Oct 03 21:58	10°M26'43	2/2/18	desc. node	5232 Sep 04 15:15	10° Ω 35'27	27011127
retrograde	5231 Oct 17 14:07	17°M43'16		evening max el	5232 Sep 15 04:54	23° Ω 00'28	2/°11'36
evening set	5231 Oct 24 17:45	15°M08'43	0.62274.411		5232 Sep 26 19:04	0°M	
min. Earth dist.	5231 Oct 28 09:54		0.63374 AU	retrograde	5232 Sep 29 01:28	0°M13'26	
inferior conj	5231 Oct 31 01:59	9°M20'09			5232 Oct 01 06:53	30° ₹ Ω	
minimum elong morning rise	5231 Oct 31 07:11 5231 Nov 06 22:11	9° ጤ 07'09 4° ጤ 04'43	2 300/	evening set min. Earth dist.	5232 Oct 06 04:04 5232 Oct 09 19:27	27° £ 56'01 25° £ 11'17	0.61457 AU
=							
direct asc. node	5231 Nov 09 08:18	3°M,36'38		inferior conj	5232 Oct 12 21:23	22° Ω 28'07	
morning max el	5231 Nov 09 10:06 5231 Nov 15 22:43	3°M36'39 7°M01'44	170/10151	minimum elong morning rise	5232 Oct 13 03:41 5232 Oct 20 05:16	22° £ 14'10 17° £ 32'26	3 3041
morning max er	5231 Nov 15 22:43 5231 Dec 01 01:04	0° √	11 7731	direct	5232 Oct 20 05:16 5232 Oct 22 12:48	17° 2 32′26 17° 2 10′09	
morning set	5231 Dec 01 01:04 5231 Dec 02 07:55	0° x ¹ 2° x¹ 14'15		asc. node	5232 Oct 22 12:48 5232 Oct 26 07:08	17° 2 210'09	
morning set	3231 DEC 02 07.33	∠ ⊼ ·14 13		morning max el	5232 Oct 26 07:08 5232 Oct 29 13:53	18° 2 11'32 20° 2 42'25	17°55'36
superior conj	5231 Dec 14 11:33	22° ₹ 56'15	0°08'47	morning max or	5232 Nov 05 13:05	20 = 42 23 0° M	11 33 30
minimum elong	5231 Dec 14 11:33 5231 Dec 14 12:28	23° × 700'04	0°08'40	morning set	5232 Nov 14 08:16	15°M29'09	
behind sun begin	5231 Dec 14 12:28 5231 Dec 14 04:23	22°×726'36	3 00 10		5232 Nov 14 08:10 5232 Nov 22 09:08	0° √	
comma sun ocgini	223.200 17 07.23	,			3232 1101 22 07.00	~ <i>p</i>	

superior conj minimum elong	5232 Nov 24 19:03 5232 Nov 24 22:41	4° ₹ 13'52 4° ₹ 29'37	0°47'15 0°46'45	minimum elong max. Earth dist.	5233 Nov 07 05:50 5233 Nov 14 14:53	16°M56'25 0°⊀01'36	1°14'56 1.40693 AU
desc. node	5232 Dec 01 14:30	15° ∡ 46′38			5233 Nov 14 14:30	0° ∡ 7	
max. Earth dist.	5232 Dec 02 06:42	16° ₹ 53'25	1.42631 AU	desc. node	5233 Nov 18 11:32	6° х 31'59 7° х 41'09	
evening rise	5232 Dec 08 16:19 5232 Dec 10 11:12	27°渘11'51 0°る		evening rise	5233 Nov 19 04:17 5233 Dec 03 13:33	/°×'41'09 0°る	
	5232 Dec 10 11.12 5232 Dec 30 22:35	0°≈		evening max el	5233 Dec 03 13:33 5233 Dec 23 14:03	0 3 25° る 47'22	23°25'43
evening max el	5232 Dec 30 22:33 5233 Jan 09 22:48	0 ∞ 12°≈08'38	22°06'02	evening max er	5233 Dec 28 13:09	23 O 47 22 0° ≈	23 23 43
retrograde	5233 Jan 19 09:16	17°≈45'21	22 00 02	retrograde	5234 Jan 03 03:26	2°≈01'51	
asc. node	5233 Jan 22 06:24	17° ≈ 01'27		evening set	5234 Jan 08 03:27	29° る 57'48	
evening set	5233 Jan 23 21:01	15° ≈ 56'51		Č	5234 Jan 08 02:25	30°R₹	
inferior conj	5233 Jan 29 05:17	9° ≈ 36'37	2°09'44	asc. node	5234 Jan 09 03:27	29° る 02'25	
minimum elong	5233 Jan 29 02:57	9° ≈ 44'43	2°08'59	min. Earth dist.	5234 Jan 13 01:38	24° る 12'28	0.68058 AU
min. Earth dist.	5233 Jan 29 04:48	9° ≈ 38'18	0.68094 AU	inferior conj	5234 Jan 13 13:16	23° る 32'31	1°26'24
morning rise	5233 Feb 03 08:44	3° ≈ 25'45		minimum elong	5234 Jan 13 11:27	23° る 38'47	1°25'43
direct	5233 Feb 08 04:07	1° ≈ 23′30		morning rise	5234 Jan 18 19:22	17° 云 26'08	
morning max el	5233 Feb 17 18:20	7°≈02'49	22°26'12	direct	5234 Jan 23 00:39	15° る 46'40	
desc. node	5233 Feb 27 13:44	18°≈51'02		morning max el	5234 Jan 31 10:30	20° පි 38'13	21°03'36
	5233 Mar 07 12:11	0° ₩ 24° ₩ 39'58		11-	5234 Feb 08 06:32	0°≈	
morning set	5233 Mar 23 11:25 5233 Mar 26 16:58	24°π39'38 0°Υ		desc. node	5234 Feb 14 10:46 5234 Feb 28 17:46	8°≈35'02 0°¥	
max. Earth dist.	5233 Mar 28 12:16		1.40606 AU	morning set	5234 Feb 28 17.46 5234 Mar 02 22:13	3° ∺ 24'33	
max. Earth dist.	3233 Widi 28 12.10	3 1 02 00	1.40000 AU	max. Earth dist.	5234 Mar 10 15:05	15° X 43'40	1.42617 AU
superior conj	5233 Apr 05 07:32	16° Ƴ 39'17	-1°54'51	max. Earth dist.	3234 Will 10 13.03	13 /(43 40	1.42017710
minimum elong	5233 Apr 05 12:17	17° Υ 00'38		superior conj	5234 Mar 17 18:42	27°) 38′54	-2°07'54
	5233 Apr 12 13:30	0°8		minimum elong	5234 Mar 17 20:36	27°) 47′02	2°07'52
evening rise	5233 Apr 15 10:54	5° 8 26'16		C	5234 Mar 19 03:41	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	5233 Apr 20 05:42	14° 8 20'00		evening rise	5234 Mar 29 08:44	18° Ƴ 00'41	
	5233 Apr 30 09:14	$\Pi^{\circ}0$			5234 Apr 05 02:53	$0^{\circ}S$	
evening max el	5233 May 01 14:34	1° II 17'00	18°20'47	asc. node	5234 Apr 07 02:45	3° 8 21'56	
retrograde	5233 May 08 21:43	4° Ⅱ 54'52		evening max el	5234 Apr 15 01:45	14° 8 17'22	18°06'56
evening set	5233 May 11 06:17	4° ∏ 33'06		retrograde	5234 Apr 21 16:50	17° 8 40'36	
	5233 May 18 11:17	30° ₹8		evening set	5234 Apr 24 08:16	17° 8 08'23	
inferior conj	5233 May 18 13:11	29° 8 56'03	2°09'07	inferior conj	5234 Apr 30 22:44	12° 8 10'41	3°00'47
minimum elong	5233 May 18 16:39	29° 8 48'48	2°08'07	minimum elong	5234 May 01 01:34	12° と 03'50 9° と 06'57	3°00'15
min. Earth dist.	5233 May 21 23:41 5233 May 25 23:57	27° 8 05'20 24° 8 22'08	0.58816 AU	min. Earth dist. morning rise	5234 May 04 03:25 5234 May 07 16:48	6° 8 15'39	0.61025 AU
morning rise desc. node	5233 May 26 12:58	24° 8 05'14		desc. node	5234 May 17 10.48 5234 May 13 09:59	4° 8 04'00	
direct	5233 Jun 01 04:07	22° 8 40'20		direct	5234 May 14 09:40	4° 8 01'09	
direct	5233 Jun 15 02:24	0°II		morning max el	5234 May 28 15:35	11° 8 58'11	27°49'09
morning max el	5233 Jun 15 13:30	0° П 26'53	27°13'01	monning man er	5234 Jun 11 20:39	0°I	27 .5 05
	5233 Jul 06 14:43	0ಂತಾ			5234 Jun 28 21:12	0ංම	
morning set	5233 Jul 16 05:10	18° © 41'06		morning set	5234 Jun 30 09:56	3° 5 07'21	
asc. node	5233 Jul 17 04:58	20°5546'44		asc. node	5234 Jul 04 02:01	10°951'18	
	5233 Jul 21 11:04	$0^{\circ}\Omega$		max. Earth dist.	5234 Jul 06 09:37	15° 9 52'34	1.32080 AU
superior conj	5233 Jul 23 06:42	4° Ω 00'46		superior conj	5234 Jul 07 17:34	18°947'32	
minimum elong	5233 Jul 23 04:31	3° Ω 48'44		minimum elong	5234 Jul 07 15:58	18°938'48	0°36'56
max. Earth dist.	5233 Jul 22 23:26		1.31915 AU		5234 Jul 12 20:15	0° Ω	
evening rise	5233 Jul 30 02:13	18° Ω 52'36		evening rise	5234 Jul 14 13:10	3° Ω 40'08	
desc. node	5233 Aug 04 13:21 5233 Aug 22 12:17	0° Т ұ 28° Т ұ 34'49		desc. node	5234 Jul 28 13:42 5234 Aug 09 09:17	0° Mp 15° Mp 15'30	
desc. Hode	5233 Aug 22 12.17 5233 Aug 23 16:46	ე∘ <u>ი</u>		evening max el	5234 Aug 09 09:17 5234 Aug 09 22:27	15° Mp 47'29	25°04'15
evening max el	5233 Aug 28 05:24	ა _ 4° _ 48'03	26°22'29	retrograde	5234 Aug 23 20:36	22° m) 49'41	25 04 15
retrograde	5233 Sep 11 04:24	11° ⊆ 56'26	20 22 27	evening set	5234 Aug 29 10:18	21° m ₂ 39'03	
evening set	5233 Sep 17 51:25	10° ₾ 08'38		min. Earth dist.	5234 Sep 03 09:59	18° m) 55'53	0.57404 AU
min. Earth dist.	5233 Sep 21 18:49	7° £ 33'44	0.59391 AU	inferior conj	5234 Sep 06 08:49	16° m 57'36	
inferior conj	5233 Sep 25 00:43	5° ჲ 03'44		minimum elong	5234 Sep 06 10:14	16° m 55'12	
minimum elong	5233 Sep 25 06:12	4° £ 53'09	4°49'27	morning rise	5234 Sep 14 12:27	12° Mp 46'36	
morning rise	5233 Oct 02 19:29	0° £ 30′12		direct	5234 Sep 17 01:41	12° m 27'38	
direct	5233 Oct 05 03:57	0° ≏ 10'47		morning max el	5234 Sep 26 01:11	16° Mp 42'08	19°07'43
morning max el	5233 Oct 12 23:51	3° ჲ 59'10	18°21'01	asc. node	5234 Sep 30 01:16	21°M) 16'35	
asc. node	5233 Oct 13 04:12	4° £ 09'47			5234 Oct 05 15:58	0∘ ত	
morning set	5233 Oct 28 22:10	29° £ 22'01		morning set	5234 Oct 12 21:25	13° ≏ 41'11	
	5233 Oct 29 06:07	0°M₊			500.4 C : 01	200 2 5-11	1022110
gunorier ees-i	5222 Nov. 07, 02:05	160 m 20112	1015/01	superior conj	5234 Oct 21 03:21		1°33'10
superior conj	5233 Nov 07 02:05	16°M39'12	1 13 21	minimum elong	5234 Oct 21 05:54	0° M 10′03	1 32 39

	5234 Oct 21 03:49	0° M			5235 Sep 27 22:50	0∘ ⊽	
max. Earth dist.	5234 Oct 27 20:08	12°M29'33	1.38586 AU				
evening rise	5234 Oct 31 15:13	19°M12'43		superior conj	5235 Oct 04 17:55	13° ≏ 55'31	1°41'56
desc. node	5234 Nov 05 08:34	27°M11'52		minimum elong	5235 Oct 04 18:54	14° ≙ 00′29	1°41'55
	5234 Nov 07 01:44	0°⊀		max. Earth dist.	5235 Oct 10 02:36	24° ≏ 29'01	1.36554 AU
	5234 Nov 27 18:55	0°ಕ			5235 Oct 13 00:58	0°M₊	
evening max el	5234 Dec 06 03:10	9° る 29'42	24°44'17	evening rise	5235 Oct 13 23:11	1°M42'04	
retrograde	5234 Dec 17 17:35	16° る 14'54		desc. node	5235 Oct 23 05:35	17°M42'05	
evening set	5234 Dec 23 07:00	13° る 55'55			5235 Oct 31 04:06	0° ∡ ¹	
asc. node	5234 Dec 27 00:30	9° 云 51'37		evening max el	5235 Nov 18 15:44	23° ∡ 13'37	25°54'38
min. Earth dist.	5234 Dec 27 21:04	8° ろ 44'43	0.67663 AU		5235 Nov 28 17:50	0° ろ	
inferior conj	5234 Dec 28 19:40	7° る 29'51	0°36'20	retrograde	5235 Dec 01 03:03	0°る19'53	
minimum elong	5234 Dec 28 18:47	7° る 32'45	0°35'59		5235 Dec 03 09:32	30°R. ✓	
morning rise	5235 Jan 03 06:42	1°る29'59		evening set	5235 Dec 07 06:00	27° ∡ 748′26	0.66010.177
direct	5235 Jan 06 23:02	0°る12'11	10052152	min. Earth dist.	5235 Dec 11 12:51	23° 🖈 12'11	0.66912 AU
morning max el	5235 Jan 14 10:29	4°る25'23	19°52'53	inferior conj	5235 Dec 12 22:37	21° × ⁷ 26'10	
desc. node	5235 Feb 01 07:47	28° ප් 41'43		minimum elong	5235 Dec 12 23:08	21° х 24'34	0°19'17
	5235 Feb 02 04:32	0°≈		asc. node	5235 Dec 13 21:32	20° ₹ 14'56	
morning set	5235 Feb 09 18:29	11°≈35'00 29°≈16'57	1 44102 ATT	morning rise direct	5235 Dec 18 16:45 5235 Dec 21 21:46	15° 🗷 35'06	
max. Earth dist.	5235 Feb 21 01:49 5235 Feb 21 12:37	29° ≈ 1637	1.44182 AU		5235 Dec 21 21:46 5235 Dec 28 18:12	14° х 36′10 18° х 22′54	18°57'03
	3233 Feb 21 12.37	0 K		morning max el	5236 Jan 06 18:33	18 x・22 34 0°る	18 3/03
superior conj	5235 Feb 26 04:18	7° ₩ 29'19	2005125	desc. node	5236 Jan 19 04:50	0 3 19° る 05'14	
minimum elong	5235 Feb 26 04:18 5235 Feb 26 00:18	7° X 13'05		morning set	5236 Jan 20 01:24	19 005 14 20°る25'34	
evening rise	5235 Peb 20 00:18 5235 Mar 11 11:50	29° H 42'56	2 03 10	morning set	5236 Jan 26 04:30	20° ≈	
evening rise	5235 Mar 11 11:50 5235 Mar 11 15:50	25 γ (42 30		max. Earth dist.	5236 Feb 03 18:13	0 ~ 13° ≈ 25'17	1.45115 AU
asc. node	5235 Mar 24 23:47	21° Υ 51'46		max. Earm dist.	3230 FC0 03 18.13	13 2317	1.43113 AU
evening max el	5235 Mar 29 14:39	27° Υ 33'50	18°12'13	superior conj	5236 Feb 05 15:23	16° ≈ 23'00	-1°43'19
evening max er	5235 Apr 01 16:34	0° 8	10 12 13	minimum elong	5236 Feb 05 06:19	15°≈47'16	
retrograde	5235 Apr 05 00:27	0° 8 57'30		minimum crong	5236 Feb 14 05:02	0° \	1 1231
evening set	5235 Apr 07 22:09	0° 8 13'29		evening rise	5236 Feb 20 16:33	10° ¥ 28'13	
e venning see	5235 Apr 08 08:18	30°RY		evening rise	5236 Mar 03 19:59	0°Υ	
inferior conj	5235 Apr 14 00:15	24° Y 56'12	3°26'38	asc. node	5236 Mar 10 20:48	9° Y 39'58	
minimum elong	5235 Apr 14 01:32	24° Ƴ 52'41	3°26'31	evening max el	5236 Mar 12 02:30	10° Ƴ 59'55	18°35'53
min. Earth dist.	5235 Apr 16 15:57	22° Y 03'04	0.63135 AU	retrograde	5236 Mar 18 16:12	14° Ƴ 36'58	
morning rise	5235 Apr 20 03:45	18° Ƴ 49'04		evening set	5236 Mar 21 20:13	13° Ƴ 40'18	
direct	5235 Apr 27 00:13	16° Ƴ 10'51		inferior conj	5236 Mar 27 13:42	8° Ƴ 05'14	3°32'32
desc. node	5235 Apr 30 07:01	16° Ƴ 43'13		minimum elong	5236 Mar 27 13:25	8° Y 06'04	3°32'31
morning max el	5235 May 10 22:52	24° Y 10'33	27°47'34	min. Earth dist.	5236 Mar 29 14:02	5° Ƴ 40'03	0.64950 AU
	5235 May 16 04:49	9° 8		morning rise	5236 Apr 02 06:02	1° Y 52'14	
	5235 Jun 05 05:28	$\Pi^{\circ}0$			5236 Apr 05 00:26	30° ₹ ₩	
morning set	5235 Jun 14 08:22	17° Ⅱ 11'43		direct	5236 Apr 08 22:30	29° ∺ 03'03	
max. Earth dist.	5235 Jun 19 14:53	28° Ⅱ 06′28	1.32676 AU		5236 Apr 13 03:44	0 ° $\mathbf{\Upsilon}$	
asc. node	5235 Jun 20 23:04	0° © 58'26		desc. node	5236 Apr 16 04:03	1° Ƴ 39'45	
	5235 Jun 20 12:10	0 \circ \odot		morning max el	5236 Apr 22 08:49	6° Y 55'46	27°11'15
					5236 May 10 03:00	0°8	
superior conj	5235 Jun 22 01:36	3° 5 21'22		morning set	5236 May 27 21:39	0° Ⅱ 45'57	
minimum elong	5235 Jun 22 01:03	3°518'23	0°11'22		5236 May 27 12:09	0°II	
behind sun begin	5235 Jun 21 21:19	2°958'16		max. Earth dist.	5236 Jun 01 11:21	9°Щ52′02	1.33723 AU
behind sun end	5235 Jun 22 04:46	3°538'31			500 (I 05 04 4=	170 170 211 -	0016174
evening rise	5235 Jun 29 01:00	18°926'25		superior conj	5236 Jun 05 04:47	17° II 36'15	
	5235 Jul 04 16:55	0°Ω	22929157	minimum elong	5236 Jun 05 05:40	17° II 40'55	0°16'43
evening max el	5235 Jul 22 10:54	26° Ω 12'53	23°28'57	asc. node	5236 Jun 06 20:05	21° Ⅱ 04'13 0° ©	
desc. node	5235 Jul 27 06:18 5235 Jul 27 01:49	0° ሙ 07'21 0° ሙ		evening rise	5236 Jun 11 00:44 5236 Jun 12 11:50	3° 5 05'23	
retrograde	5235 Jul 27 01:49 5235 Aug 05 00:30	3° Mp 01'00		evening rise	5236 Jun 27 11:41	0° Ω	
evening set	5235 Aug 09 02:47	2° Mp 24'15		evening max el	5236 Jul 03 02:38		21°52'47
evening set	5235 Aug 09 02:47 5235 Aug 14 13:40	2 11/2413 30°RΩ		desc. node	5236 Jul 13 03:18	12° Ω 36'19	41 J471
min. Earth dist.	5235 Aug 14 13:40 5235 Aug 15 20:32		0.55792 AU	retrograde	5236 Jul 15 17:28	$12^{\circ}\Omega52'03$	
inferior conj	5235 Aug 17 20:32 5235 Aug 17 20:46	28° Ω 04'30		evening set	5236 Jul 18 10:19	$12^{\circ}\Omega 35'40$	
minimum elong	5235 Aug 17 20:40 5235 Aug 17 15:43	28° Ω 12'01		inferior conj	5236 Jul 27 17:32	8°Ω32'50	-3°59'34
morning rise	5235 Aug 26 07:04	24°Ω11'04		minimum elong	5236 Jul 27 08:41	8° Ω 45'14	
direct	5235 Aug 29 03:57	23°Ω50'52		min. Earth dist.	5236 Jul 27 06:30	8° Ω 48'18	0.54889 AU
morning max el	5235 Nag 25 05:37 5235 Sep 08 15:13	28° Ω 42'52	20°16'28	morning rise	5236 Aug 05 08:33	4° Ω 42'07	
<i>3</i>	5235 Sep 09 22:26	0° mp		direct	5236 Aug 08 15:26	4° Ω 18'22	
asc. node	5235 Sep 16 22:18	9° m) 17'15		morning max el	5236 Aug 20 17:17	9° £ 57'59	21°45'13
morning set	5235 Sep 27 02:55	28° m 18'06		asc. node	5236 Sep 02 19:20	27° Ω 58'54	
- C							

	522 (G	00 m -		1	5227 4 20 16 22	170 0 1 112 (
	5236 Sep 03 21:58	0° Mp		asc. node	5237 Aug 20 16:22	17° Ω 11'36	
morning set	5236 Sep 10 12:16	13°Mp05'18		morning set	5237 Aug 25 23:38	27° \Omega 57'50	
					5237 Aug 26 22:40	0° m	
superior conj	5236 Sep 17 17:42	28° Tp 20'01	1°43'03				
minimum elong	5236 Sep 17 17:16	28° Mp 17'41	1°43'02	superior conj	5237 Sep 01 23:44	13° m 02'15	1°37'38
	5236 Sep 18 12:52	0∘ ⊽		minimum elong	5237 Sep 01 22:13	12° m 54'05	1°37'31
max. Earth dist.	5236 Sep 21 15:09	6° £ 21′24	1.34804 AU	max. Earth dist.	5237 Sep 04 12:34	18° m 26'55	1.33455 AU
evening rise	5236 Sep 26 00:05	14° ≏ 58'23		evening rise	5237 Sep 09 13:52	28° m 51'17	
	5236 Oct 04 07:05	0° M			5237 Sep 10 03:42	0∘ ⊽	
desc. node	5236 Oct 09 02:36	7°M56'35		desc. node	5237 Sep 25 23:37	27° ≏ 48'31	
	5236 Oct 24 20:13	0° ∡ ¹			5237 Sep 27 10:19	0° M ₊	
evening max el	5236 Oct 31 04:23	6° ∡ 52′13	26°49'32	evening max el	5237 Oct 13 16:37	20°M16'16	27°21'39
retrograde	5236 Nov 13 07:13	14° ₰ 09'09		retrograde	5237 Oct 27 05:26	27°M34'39	
evening set	5236 Nov 19 22:25	11° ∡ ³30′08		evening set	5237 Nov 03 05:50	24°M55'52	
min. Earth dist.	5236 Nov 23 22:41	7° ∡ ¹29'12	0.65805 AU	min. Earth dist.	5237 Nov 07 00:29	21°M28'52	0.64356 AU
inferior conj	5236 Nov 25 20:06	5° х 16′46	-1°20'03	inferior conj	5237 Nov 09 09:47	18° M 56'37	-2°23'23
minimum elong	5236 Nov 25 22:22	5° ∡ 10′09	1°19'04	minimum elong	5237 Nov 09 13:57	18° M 45'29	2°21'45
asc. node	5236 Nov 29 18:33	1° ∡ 08'14		morning rise	5237 Nov 15 23:25	13° M 31'08	
	5236 Dec 01 07:07	30°RM₊		asc. node	5237 Nov 16 15:34	13° M ₊16′09	
morning rise	5236 Dec 01 23:13	29°M37'01		direct	5237 Nov 18 12:13	12°M58'23	
direct	5236 Dec 04 18:55	28°M53'09		morning max el	5237 Nov 25 00:05	16°M23'35	17°54'45
	5236 Dec 08 08:22	0° ∡ ¹		•	5237 Dec 04 18:23	0° ∡ ¹	
morning max el	5236 Dec 11 07:38	2° ∡ ¹24'32	18°17'25	morning set	5237 Dec 12 02:56	12° ∡ 20′23	
morning set	5236 Dec 30 11:46	0° る 40'28		desc. node	5237 Dec 22 22:53	0° る 22'34	
Ü	5236 Dec 30 01:45	0°₹			5237 Dec 22 17:20	0°ප	
desc. node	5237 Jan 05 01:51	9° る 40'09					
4000. 11040	2237 0411 00 01.01	<i>y</i> C .0 0 <i>y</i>		superior conj	5237 Dec 25 09:54	4° る 21'47	-0°17'08
superior conj	5237 Jan 14 18:29	25° る 02'07	-1°03'56	minimum elong	5237 Dec 25 07:53	4°る13'40	0°16'50
minimum elong	5237 Jan 14 10:46	24° る 31'47		max. Earth dist.	5237 Dec 30 07:54	12° る 13'02	1.44787 AU
max. Earth dist.	5237 Jan 16 13:07	27° る 49'27	1.45320 AU	evening rise	5238 Jan 10 11:48	29° る 36'23	1.44707710
max. Earth dist.	5237 Jan 17 22:26	27 ○ 4927 0° ≈	1.43320 AU	evening rise	5238 Jan 10 17:57	29 ⊙ 30 23	
evening rise	5237 Jan 30 22:21	0 ∞ 20°≈19'18		greatest brilliancy	5238 Jan 25 04:11	0 ∞ 21°≈45'57	-0.6m
evening rise	5237 Feb 06 02:53	20 ≈ 1918		greatest brilliancy	5238 Jan 30 23:35	0° \	-0.0111
arantant brillianav	5237 Feb 11 04:10	0) 7°) 49'17	-0.8m	avanina may al	5238 Feb 06 14:52	8° ∺ 04'32	20°13'25
greatest brilliancy		24°) (30'56		evening max el asc. node		8 ★0432 12°¥21'03	20 13 23
evening max el	5237 Feb 23 11:04 5237 Feb 25 17:49	24° X 30'36 26° X 34'24	19°16'57		5238 Feb 12 14:50	12° X 21'03	
asc. node				retrograde	5238 Feb 14 10:33		
retrograde	5237 Mar 02 12:28	28°) (32'16		evening set	5238 Feb 18 06:05	11°) 14'20	2002107
evening set	5237 Mar 05 23:36	27°) (22'12	202211.5	inferior conj	5238 Feb 23 15:06	5°) €09'54	3°02'06
inferior conj	5237 Mar 11 11:35	21°) (31'20		minimum elong	5238 Feb 23 12:55	5°) €17'18	3°01'39
minimum elong	5237 Mar 11 10:07	21°) (36'05		min. Earth dist.	5238 Feb 24 10:07		0.67371 AU
min. Earth dist.	5237 Mar 12 20:41	19°) (44′24	0.66371 AU		5238 Feb 27 17:25	30°R≈	
morning rise	5237 Mar 16 20:19	15°) 16′25		morning rise	5238 Feb 28 19:32	28°≈55'27	
direct	5237 Mar 23 03:24	12°) €29'14		direct	5238 Mar 06 13:50	26°≈20'53	
desc. node	5237 Apr 03 01:04	18° 米 19′51			5238 Mar 14 13:56	0° \	
morning max el	5237 Apr 04 18:43	20°) €01'02	26°07'33	morning max el	5238 Mar 18 03:22	3° ¥ 16′00	24°45'59
	5237 Apr 13 07:54	0° Υ		desc. node	5238 Mar 20 22:07	6° 米 14'50	
	5237 May 03 05:43	0°B			5238 Apr 07 13:04	0° Υ	
morning set	5237 May 10 22:01	13° 8 39'15		morning set	5238 Apr 23 04:24	25° Y 36′52	
max. Earth dist.	5237 May 14 20:18		1.35234 AU		5238 Apr 25 15:11	0°8	
	5237 May 19 07:50	Π $^{\circ}0$		max. Earth dist.	5238 Apr 26 19:08	2° 8 07'24	1.37170 AU
superior conj	5237 May 20 00:42	1° Ⅱ 25'34	-0°46'41	superior conj	5238 May 03 10:15	14° 8 40'28	-1°16'08
minimum elong	5237 May 20 03:16	1° Ⅱ 38'42	0°46'12	minimum elong	5238 May 03 14:26	15° 8 00'55	1°15'30
asc. node	5237 May 24 17:06	11° Ⅱ 04'49			5238 May 11 03:04	Π \circ 0	
evening rise	5237 May 27 19:41	17° Ⅲ 30′54		evening rise	5238 May 11 22:10	1° Ⅱ 35'35	
	5237 Jun 03 03:25	0 \circ \odot		asc. node	5238 May 11 14:07	0° Ⅱ 55'24	
evening max el	5237 Jun 15 05:02	17° © 30'38	20°28'45	evening max el	5238 May 28 19:56	29° Ⅱ 05′28	19°23'03
retrograde	5237 Jun 26 06:20	22° © 55'32			5238 May 29 19:26	0 \circ \odot	
evening set	5237 Jun 28 06:09	22° © 45'43		retrograde	5238 Jun 07 03:34	3° 5 38'40	
desc. node	5237 Jun 30 00:19	22° 5 21'43		evening set	5238 Jun 09 02:26	3° 5 27'33	
inferior conj	5237 Jul 07 11:21	18° 5 48'24	-2°12'29	desc. node	5238 Jun 16 21:20	29° Ⅱ 51′08	
minimum elong	5237 Jul 07 05:11	18° © 57'20			5238 Jun 16 15:48	30°R Ⅱ	
min. Earth dist.	5237 Jul 08 18:10	18° © 03'44	0.54921 AU	inferior conj	5238 Jun 17 16:16	29° Ⅱ 20'29	-0°14'05
morning rise	5237 Jul 16 03:19	14° © 39'54		minimum elong	5238 Jun 17 15:39	29° Ⅲ 21′29	
direct	5237 Jul 20 01:19	14° © 06'47		transit middle	5238 Jun 17 15:39	29° Ⅱ 21'29	0°13'52
morning max el	5237 Aug 02 10:09	20°535'29	23°27'03	transit begin	5238 Jun 17 13:43	29° ∏ 24'38	
<i>5</i>	5237 Aug 10 10:21	0° Ω	-	transit end	5238 Jun 17 17:35	29° Ⅱ 18'20	

min Forth dist	5229 Jun 20 00:00	270T27100	0.55001.411	daga mada	5220 Jun 02 19:22	60 Π 40147	
min. Earth dist. morning rise	5238 Jun 20 08:00 5238 Jun 26 02:03	27°П37'08 24°П39'22	0.55901 AU	desc. node morning rise	5239 Jun 03 18:22 5239 Jun 06 13:37	6° Ⅱ 48'47 5° Ⅱ 14'07	
direct	5238 Jun 30 21:08	24 H3922 23°H47'06		direct	5239 Jun 12 06:51	3° П 52'28	
direct	5238 Jul 13 23:40	0°95		morning max el	5239 Jun 26 15:51	11° II 27'36	26°36'10
morning max el	5238 Jul 14 23:32	0° © 55'17	25°09'28	morning max ci	5239 Jul 11 00:49	0°95	20 30 10
morning max er	5238 Aug 04 02:46	0°Ω	25 07 20	asc. node	5239 Jul 25 10:28	26° 9 36'47	
asc. node	5238 Aug 07 13:25	6° Ω 46'21		morning set	5239 Jul 25 21:42	27°935'56	
morning set	5238 Aug 10 11:19	12° Ω 49'38		morning sec	5239 Jul 27 00:49	0°Ω	
	2-201-108 10 11115	00.700				* 00	
superior conj	5238 Aug 17 09:33	27° Ω 53'32	1°26'39	superior conj	5239 Aug 01 21:10	12° Ω 47'31	1°10'46
minimum elong	5238 Aug 17 07:24	27° Ω 41'48	1°26'23	minimum elong	5239 Aug 01 18:52	12° Ω 34'49	1°10'23
	5238 Aug 18 08:40	0° m y		max. Earth dist.	5239 Aug 02 04:03	13° Ω 25'35	1.32018 AU
max. Earth dist.	5238 Aug 18 17:52	0° m 50'10	1.32527 AU	evening rise	5239 Aug 08 18:24	27° Ω 44'47	
evening rise	5238 Aug 24 12:56	13° m 09'37			5239 Aug 09 20:17	0° ™	
	5238 Sep 02 06:44	0० ত			5239 Aug 26 16:08	0∘ ⊽	
desc. node	5238 Sep 12 20:39	17° ≏ 07'55		desc. node	5239 Aug 30 17:39	5° ≏ 41'30	
	5238 Sep 22 22:41	0° M		evening max el	5239 Sep 08 07:03	15° ≏ 27'54	26°54'42
evening max el	5238 Sep 26 02:28	3°M12'45	27°24'44	retrograde	5239 Sep 22 04:26	22° ჲ 38′05	
retrograde	5238 Oct 09 20:49	10°M27'16		evening set	5239 Sep 29 03:41	20° ≏ 31'54	
evening set	5238 Oct 17 00:59	7°M58'53		min. Earth dist.	5239 Oct 02 21:11	17° ≏ 53'36	0.60591 AU
min. Earth dist.	5238 Oct 20 16:17	5°M01'20	0.62592 AU	inferior conj	5239 Oct 06 01:49	15° ≏ 14'02	-4°23'35
inferior conj	5238 Oct 23 12:48	2°M18'43		minimum elong	5239 Oct 06 08:05	15° ≏ 00'54	4°22'07
minimum elong	5238 Oct 23 18:37	2°M04'52	3°24'29	morning rise	5239 Oct 13 14:29	10° ≏ 27'28	
	5238 Oct 26 01:42	30° Ŗ Ω		direct	5239 Oct 15 22:08	10° ≏ 06'34	
morning rise	5238 Oct 30 13:57	27° £ 10′54		asc. node	5239 Oct 21 09:42	12° ≏ 09'12	
direct	5238 Nov 01 22:36	26° Ω 45'36		morning max el	5239 Oct 23 05:55	13° ≏ 44'11	18°03'56
asc. node	5238 Nov 03 12:38	26° Ω 57'19			5239 Nov 03 06:52	0° ™	
	5238 Nov 08 11:18	0° ™		morning set	5239 Nov 07 23:50	8° ™ 39'30	
morning max el	5238 Nov 08 16:35	0°M12'51	17°49'53				
morning set	5238 Nov 24 17:06	25°M06'30		superior conj	5239 Nov 17 20:15	26°M42'58	1°00'28
	5238 Nov 27 11:17	0° ∡ 7		minimum elong	5239 Nov 18 00:10	27°M00'24	0°59'59
	5220 D 07 02 07	1.40 7.54120	0027110	E d E d	5239 Nov 19 16:53	0° ⊼ ¹	1 41047 411
superior conj	5238 Dec 06 02:07	14° 🗷 54'39	0°26'18	max. Earth dist.	5239 Nov 25 11:57	9° х 55'09	1.41847 AU
minimum elong desc. node	5238 Dec 06 04:34	15° ₹ 05'00	0°25'56	desc. node	5239 Nov 26 16:56	11° х 55'44 18° х 51'50	
max. Earth dist.	5238 Dec 09 19:55 5238 Dec 13 00:17	21° 尽 08'59 26° 尽 20'35	1.43582 AU	evening rise	5239 Nov 30 23:05 5239 Dec 08 01:59	0。名 18.x.21.20	
max. Earth dist.	5238 Dec 15 00:17	20 x·2033	1.45582 AU		5239 Dec 08 01.39 5239 Dec 29 13:10	0°≈	
evening rise	5238 Dec 20 23:01	8° る 55'17		evening max el	5240 Jan 03 06:34	0 ∞ 5°≈16'24	22°39'35
evening rise	5239 Jan 03 23:33	0°≈		retrograde	5240 Jan 13 04:18	11°≈09'31	22 39 33
evening max el	5239 Jan 20 13:14	0 ~ 21° ≈ 39'46	21°22'22	asc. node	5240 Jan 17 08:56	9° ≈ 38'16	
retrograde	5239 Jan 29 08:22	26°≈52'38	21 22 22	evening set	5240 Jan 17 21:14	9° ≈ 14'07	
asc. node	5239 Jan 30 11:52	26°≈45'36		inferior conj	5240 Jan 23 05:59	2°≈51'12	1°52'13
evening set	5239 Feb 02 13:51	25°≈12'58		minimum elong	5240 Jan 23 03:49	2°≈58'44	1°51'28
inferior conj	5239 Feb 07 21:54	18°≈57'40	2°31'17	min. Earth dist.	5240 Jan 23 00:36	3°≈09'52	0.68128 AU
minimum elong	5239 Feb 07 19:29	19° ≈ 06'01	2°30'36		5240 Jan 25 08:46	30°Ŗる	
min. Earth dist.	5239 Feb 08 04:10	18° ≈ 35'58	0.67949 AU	morning rise	5240 Jan 28 10:17	26° ප් 42'18	
morning rise	5239 Feb 13 00:57	12° ≈ 45'16		direct	5240 Feb 01 23:33	24° る 49'56	
direct	5239 Feb 18 04:51	10° ≈ 30′16			5240 Feb 10 22:01	0°≈	
morning max el	5239 Feb 28 12:24	16° ≈ 37'47	23°17'01	morning max el	5240 Feb 11 01:08	0° ≈ 07'48	21°49'55
desc. node	5239 Mar 07 19:09	25° ≈ 03'34		desc. node	5240 Feb 22 16:11	14° ≈ 30′25	
	5239 Mar 11 13:13	0° ∀			5240 Mar 04 08:19	0° ∀	
	5239 Mar 31 14:01	$0^{\circ}\Upsilon$		morning set	5240 Mar 14 13:09	15° ¥ 50′26	
morning set	5239 Apr 04 10:58	6° Y 23′59		max. Earth dist.	5240 Mar 20 13:45	25°) (40′22	1.41505 AU
max. Earth dist.	5239 Apr 08 14:40	13° Y 29'56	1.39353 AU		5240 Mar 23 03:34	0 ° Υ	
superior conj	5239 Apr 16 05:34	27° Y 11'49		superior conj	5240 Mar 28 05:48	8° Ƴ 47'27	
minimum elong	5239 Apr 16 10:37	27° Y 35′14	1°41'59	minimum elong	5240 Mar 28 09:45	9° Y ′04'50	2°01'42
	5239 Apr 17 17:39	0° 8		evening rise	5240 Apr 07 22:59	28° Y 12'31	
evening rise	5239 Apr 25 16:29	15° 8 12'34			5240 Apr 08 22:18	0°8	
asc. node	5239 Apr 28 11:10	20° 8 31'47		asc. node	5240 Apr 14 08:13	9° 8 48'07	1001227
	5239 May 03 16:20	0°II	10005:2	evening max el	5240 Apr 24 05:54	24° 8 05'35	18°12'27
evening max el	5239 May 11 21:22	11° Ⅱ 19'52	18°37'36	retrograde	5240 May 01 04:57	27° 8 35'41	
retrograde	5239 May 19 18:51	15° Ⅱ 13'26		evening set	5240 May 03 16:25	27° 8 09'46	202.412.6
evening set	5239 May 21 23:29	14° I I56′28	1005104	inferior conj	5240 May 10 15:48	22° 8 23'34	2°34'36
inferior conj	5239 May 29 17:18	10° Ⅱ 30'47		minimum elong	5240 May 10 19:12	22° 8 15'59	
minimum elong	5239 May 29 20:11		1°24'37	min. Earth dist.	5240 May 14 00:56	19° 8 24'17	0.59747 AU
min. Earth dist.	5239 Jun 02 01:26	/~Щ59′15	0.57623 AU	morning rise	5240 May 17 19:18	16° 8 39'07	

desc. node	5240 May 20 15:23	15° 8 19'21		morning rise	5241 Apr 29 20:07	28° Y 51′00	
direct	5240 May 24 05:44	14° 8 43'01		direct	5241 May 06 15:29	26° Y 24'43	
morning max el	5240 Jun 07 14:29	22° 8 35'12	27°33'09	desc. node	5241 May 07 12:25	26° Y 26'59	
	5240 Jun 14 03:57	$\Pi^{\circ}0$			5241 May 15 17:20	8°	
	5240 Jul 03 02:14	0°€		morning max el	5241 May 20 19:08	4° 8 24'57	27°53'03
morning set	5240 Jul 09 05:06	12° © 11'32		Ü	5241 Jun 08 21:06	$\Pi^{\circ}0$	
asc. node	5240 Jul 11 07:32	16° © 37'43		morning set	5241 Jun 23 07:26	26° Ⅱ 29'25	
max. Earth dist.	5240 Jul 15 15:19	26°502'21	1.31927 AU		5241 Jun 25 00:17	0ಂಣ 	
max. Earth dist.	3210 Jul 13 13.17	20 30221	1.51)2/110	asc. node	5241 Jun 28 04:32	6° © 43'49	
aumorior comi	5240 Jul 16 00:40	27° © 38'42	0°50'36	max. Earth dist.	5241 Jun 28 23:44	8° 5 27'21	1.32269 AU
superior conj	5240 Jul 16 08:48			max. Earth dist.	3241 Juli 26 23.44	0 302/21	1.32209 AU
minimum elong	5240 Jul 16 06:49	27° © 27'45	0°50'13		5041 7 00 10 00	10000000	000 (140
	5240 Jul 17 10:23	0 ° Ω		superior conj	5241 Jun 30 18:39	12° © 20'39	0°26'42
evening rise	5240 Jul 23 03:55	12° Ω 29'40		minimum elong	5241 Jun 30 17:27	12° © 14'04	0°26'26
	5240 Jul 31 23:46	0° ™		evening rise	5241 Jul 07 15:25	27° © 17'05	
desc. node	5240 Aug 16 14:40	23° Mp 10'51			5241 Jul 08 22:12	$0^{\circ}\Omega$	
evening max el	5240 Aug 20 04:07	26° M 53'56	25°52'13		5241 Jul 26 03:37	0° m	
_	5240 Aug 23 19:47	0∘ ত		evening max el	5241 Aug 01 18:23	7° m 35'30	24°24'59
retrograde	5240 Sep 03 03:11	4° £ 00'43		desc. node	5241 Aug 03 11:41	9° m 09'31	
evening set	5240 Sep 09 09:06	2° £ 27'53		retrograde	5241 Aug 15 14:46	14° m 34'14	
evening set	5240 Sep 13 11:55	2 <u>—</u> 2733		evening set	5241 Aug 19 14:40 5241 Aug 20 13:55	13° m ₂ 39'15	
i. Easth diet	•		0 50515 ATT	•	•		0.50041.411
min. Earth dist.	5240 Sep 13 16:29	-	0.58515 AU	min. Earth dist.	5241 Aug 26 05:24	10° m/47'00	0.56641 AU
inferior conj	5240 Sep 16 21:18	27° m 33'04		inferior conj	5241 Aug 28 20:39	9° ™ 06'55	
minimum elong	5240 Sep 17 01:29	27° m 25'26	5°05'00	minimum elong	5241 Aug 28 19:25	9° ™ 08'53	5°17'28
morning rise	5240 Sep 24 20:11	23° Mp 09'45		morning rise	5241 Sep 06 03:22	5° Mp 04'34	
direct	5240 Sep 27 06:14	22° m 50'49		direct	5241 Sep 08 19:18	4° M 45′27	
morning max el	5240 Oct 05 12:44	26° Mp48′38	18°38'19	morning max el	5241 Sep 18 09:35	9° ™ 14'56	19°34'21
asc. node	5240 Oct 07 06:46	28° m 38'59		asc. node	5241 Sep 24 03:48	16° Mp 10'21	
	5240 Oct 08 09:47	0∘ <u>⊽</u>			5241 Oct 02 04:45	0∘ ⊽	
morning set	5240 Oct 21 18:11	22° £ 45′22		morning set	5241 Oct 05 20:24	7° £ 12'44	
	5240 Oct 25 11:37	0°M				,	
	3240 Oct 23 11.37	O IIO		superior conj	5241 Oct 13 19:16	23° ♀ 10'44	1°37'54
aumorior comi	5240 Opt 20 11:49	00 m 22156	1924/04				
superior conj	5240 Oct 30 11:48	9°M33'56	1°24'04	minimum elong	5241 Oct 13 21:09		1°37'48
minimum elong	5240 Oct 30 15:08	9°M49'35	1°23'46		5241 Oct 17 07:43	0°M	
max. Earth dist.	5240 Nov 06 18:27	22°M46'01	1.39799 AU	max. Earth dist.	5241 Oct 19 23:03	4°M57'23	1.37694 AU
evening rise	5240 Nov 10 20:49	29°M48'03		evening rise	5241 Oct 23 17:06	11° M 45'24	
	5240 Nov 10 23:39	0° ∡ ¹		desc. node	5241 Oct 30 11:00	23°M16'06	
desc. node	5240 Nov 12 13:58	2° ∡ ³39'41			5241 Nov 03 15:45	0° ∡ ¹	
	5240 Nov 30 12:23	0° ප			5241 Nov 25 19:14	0° ට	
evening max el	5240 Dec 15 20:31	18° ප 56'31	23°59'31	evening max el	5241 Nov 28 09:12	2°る40'07	25°15'37
retrograde	5240 Dec 26 21:01	25° る 25'44		retrograde	5241 Dec 10 09:27	9° ප 36'09	
evening set	5241 Jan 01 02:40	23° る 14'59		evening set	5241 Dec 16 04:30	7° る 11'37	
asc. node	5241 Jan 03 05:59	21°る05'29		min. Earth dist.	5241 Dec 20 15:26	2° ♂ 14'54	0.67386 AU
min. Earth dist.	5241 Jan 05 03:39	21 ර 032) 17° ට 44'04	0.67937 AU	asc. node	5241 Dec 20 13:20 5241 Dec 21 03:00	1°る37'25	0.07300 AC
		17 844 04 16° 8 48'31					0012110
inferior conj	5241 Jan 06 13:31		1°05'57	inferior conj	5241 Dec 21 18:42	0°る46'19	
minimum elong	5241 Jan 06 12:03	16° る 53'32	1°05'22	minimum elong	5241 Dec 21 18:22	0°る47'24	
morning rise	5241 Jan 11 21:28	10° ح 44'40		transit middle	5241 Dec 21 18:22	0° る 47'24	0°13'11
direct	5241 Jan 15 20:57	9° る 14'55		transit begin	5241 Dec 21 16:45	0° る 52'39	
morning max el	5241 Jan 23 20:37	13° る 49'03	20°31'45	transit end	5241 Dec 21 19:59	0° る 42'10	
	5241 Feb 05 12:15	0° ≈			5241 Dec 22 09:01	30°₹ ҂ 7	
desc. node	5241 Feb 08 13:13	4° ≈ 25′05		morning rise	5241 Dec 27 08:30	24° ⋌ ¹49'39	
morning set	5241 Feb 21 15:08	24° ≈ 12'41		direct	5241 Dec 30 19:43	23° х 40′19	
	5241 Feb 25 08:02	0°) €		morning max el	5242 Jan 06 24:00	27° ∡ ¹41'14	19°27'06
max. Earth dist.	5241 Mar 02 19:38	8°) 43′57	1.43352 AU	-	5242 Jan 09 03:16	0°ರ	
				greatest brilliancy	5242 Jan 20 03:14	15° る 07'32	-0.7m
superior conj	5241 Mar 09 06:12	19°) 17'19	-2°09'04	desc. node	5242 Jan 26 10:15	24° る 39'57	0.711
minimum elong	5241 Mar 09 05:53	19°) 15'59		dese. Hode	5242 Jan 29 21:32	0°≈	
minimum clong		0°Υ	2 09 04	. ,			
	5241 Mar 15 13:50			morning set	5242 Jan 31 12:52	2°≈31'48	1 44666 177
evening rise	5241 Mar 21 13:23	10° Y 25'41		max. Earth dist.	5242 Feb 13 08:37	22° ≈ 32'58	1.44666 AU
asc. node	5241 Apr 01 05:15	28° Ƴ 37'30					
	5241 Apr 02 02:44	0°B		superior conj	5242 Feb 17 05:22	28° ≈ 41'35	
evening max el	5241 Apr 07 18:06	7° 8 13'26	18°06'52	minimum elong	5242 Feb 16 22:43	28° ≈ 14'59	1°58'07
retrograde	5241 Apr 14 05:54	10° 8 35'25			5242 Feb 18 00:58	0°) €	
evening set	5241 Apr 16 23:55	9° 8 58'28		evening rise	5242 Mar 03 07:18	21°) 44'19	
inferior conj	5241 Apr 23 08:39	4° 8 52'25	3°14'32	-	5242 Mar 08 05:49	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	5241 Apr 23 10:52	4° 8 46'45		asc. node	5242 Mar 19 02:16	16°Υ51'33	
min. Earth dist.	5241 Apr 26 08:29	1° 8 50'14		evening max el	5242 Mar 22 06:57	20° Υ 35'39	18°20'08
Zartii dist.	5241 Apr 28 08:43	30°RΥ	0.01710710	retrograde	5242 Mar 28 17:21	24° Υ 03'18	10 20 00
	52 11 11pt 20 00.75	50 14 1		Tonogrado	22 12 14101 20 1/.21	2. 10510	

ovening set	5242 Mar 21 17:41	23° Y 14'03		ratra ara da	5242 Mar. 12, 11:10	7° Ƴ 50'47	
evening set inferior conj	5242 Mar 31 17:41	17° Y 49'17	3°31'13	retrograde evening set	5243 Mar 12 11:19 5243 Mar 15 18:20	6°Υ48'22	
minimum elong	5242 Apr 06 15:44 5242 Apr 06 16:19	17 γ 49 17 17° γ 47'36	3°31'11	inferior conj	5243 Mar 21 09:09	1°Υ°06'23	3°30'11
min. Earth dist.	5242 Apr 09 01:08	17 Υ 47 30	0.63955 AU	minimum elong	5243 Mar 21 09:09 5243 Mar 21 08:19	1° Υ 08'59	3°30'08
morning rise	5242 Apr 12 14:03	13 γ 00 00	0.03933 AU	minimum ciong	5243 Mar 22 06:25	1 1 00 39 30°R 	3 30 08
direct	5242 Apr 12 14:03 5242 Apr 19 09:49	8° Υ 54'19		min. Earth dist.	5243 Mar 23 02:52	28° ¥ 56'49	0.65614 AU
desc. node		6 γ 34 19 10° γ 09'10			5243 Mar 26 21:52	28 X 30 49 24° X 52'30	0.03014 AU
morning max el	5242 Apr 24 09:26 5242 May 03 03:44	16° Υ 52'40	27025151	morning rise direct	5243 Mai 26 21.32 5243 Apr 02 10:58	24 X 32 30 22° X 02'47	
morning max er	5242 May 14 00:50	0° 8	21 33 34	desc. node	5243 Apr 11 06:29	25°) 54'04	
	5242 Jun 01 16:02	0°II			•	29° H 47'29	26°46'55
morning set	5242 Jun 07 02:20	10° Ⅱ 22'26		morning max el	5243 Apr 15 13:44 5243 Apr 15 18:39	29 Λ 4729	20 40 33
max. Earth dist.	5242 Jun 12 01:27	20° II 29'26	1.33061 AU		5243 May 07 22:54	0° 8	
max. Earm dist.	3242 Juli 12 01.27	20 112920	1.33001 AU	morning sat	•	23° 8 40'28	
aumorior comi	5242 Jun 15 00:54	26° Ⅱ 47'49	000017	morning set	5243 May 21 10:36 5243 May 24 16:46	23 Ο 40 28	
superior conj	5242 Jun 15 00:54 5242 Jun 15 00:54	26° II 47'49 26° II 47'52		max. Earth dist.	•	0 П 2°П01'28	1.34318 AU
minimum elong	5242 Jun 14 19:32	26° I I19'09	0 00 18	max. Earm dist.	5243 May 25 17:11	2 щ01 28	1.34318 AU
behind sun begin behind sun end	5242 Jun 15 06:16	20 H1909 27°H16'37		aumariar aani	5242 May 20, 01,19	10° ∏ 52'49	0020126
				superior conj	5243 May 30 01:18		
asc. node	5242 Jun 15 01:33	26° ∏ 51′22		minimum elong	5243 May 30 02:53	11° I I01'03	0°29'08
	5242 Jun 16 12:42	0.22 0.22		asc. node	5243 Jun 01 22:33	16°Ⅲ55'28	
evening rise	5242 Jun 22 03:02	12° © 01'20		evening rise	5243 Jun 06 12:51	26° ∏ 35'30	
	5242 Jul 01 06:56	0°N	00045100		5243 Jun 08 04:25	0.22	2101.455
evening max el	5242 Jul 14 07:20	17° Ω 56'48	22°47'22	evening max el	5243 Jun 26 02:58		21°14'57
desc. node	5242 Jul 21 08:40	23° Ω 04'58			5243 Jun 27 18:09	0°N	
retrograde	5242 Jul 27 13:22	24° Ω 32'57		retrograde	5243 Jul 08 02:43	4° Ω 25'02	
evening set	5242 Jul 30 23:59	24° Ω 07'01		desc. node	5243 Jul 08 05:41	4° Ω 25'00	
min. Earth dist.	5242 Aug 07 15:34	20° Ω 43'47		evening set	5243 Jul 10 10:17	4°Ω12'36	
inferior conj	5242 Aug 09 01:07	19° Ω 55'44		inferior conj	5243 Jul 19 18:42	0° Ω 14'08	
minimum elong	5242 Aug 08 17:45	20° Ω 06′18	4°41'51	minimum elong	5243 Jul 19 10:15	0° Ω 25'57	
morning rise	5242 Aug 17 13:36	16° Ω 05′20		min. Earth dist.	5243 Jul 20 01:43	0° Ω 04'16	0.54789 AU
direct	5242 Aug 20 14:26	15° Ω 43'54			5243 Jul 20 04:46	30° ₹ ∽	
morning max el	5242 Aug 31 18:19	20° Ω 55'46	20°51'58	morning rise	5243 Jul 28 10:50	26° © 18'38	
	5242 Sep 08 04:59	O° Mp		direct	5243 Jul 31 23:39	25° © 51'44	
asc. node	5242 Sep 11 00:49	4° Mp 29'49			5243 Aug 11 11:18	0 $^{\circ}$ Ω	
morning set	5242 Sep 20 03:46	21° Mp 54'27		morning max el	5243 Aug 13 15:42	1° Ω 52'07	22°27'37
	5242 Sep 24 01:06	0∘ ⊽		asc. node	5243 Aug 28 21:51	23° Ω 25'48	
					5243 Sep 01 07:27	O°Mp	
superior conj	5242 Sep 27 14:07	7° ჲ 20'38	1°43'16	morning set	5243 Sep 04 14:12	6° ™ 44'41	
minimum elong	5242 Sep 27 14:28	7° ≏ 22'24	1°43'16				
max. Earth dist.	5242 Oct 02 07:33	16° ≏ 50'38	1.35770 AU	superior conj	5243 Sep 11 16:52	21° m 53'29	1°41'29
evening rise	5242 Oct 06 08:47	24° ≏ 36'03		minimum elong	5243 Sep 11 15:55	21° m)48'27	1°41'26
	5242 Oct 09 07:31	0°M₊		max. Earth dist.	5243 Sep 15 00:06	28° Mp 48'28	1.34180 AU
desc. node	5242 Oct 17 08:00	13°M40'16			5243 Sep 15 14:00	0∘ ⊽	
	5242 Oct 28 05:27	0° ⊼		evening rise	5243 Sep 19 15:37	8° 亞 09'06	
evening max el	5242 Nov 10 22:00	16° ₹ 23'22	26°20'25		5243 Oct 01 20:27	0°M₊	
retrograde	5242 Nov 23 16:38	23° ҂ ³34'56		desc. node	5243 Oct 04 05:00	3° ™ 46′21	
evening set	5242 Nov 30 00:57	20° ₹ 59'54			5243 Oct 24 11:40	0° ∡ ¹	
min. Earth dist.	5242 Dec 04 05:03	16° ∡ ³38′26	0.66483 AU	evening max el	5243 Oct 24 10:46	29° ™ 57'53	27°06'27
inferior conj	5242 Dec 05 19:36	14° ≯ 40'51		retrograde	5243 Nov 06 18:08	7° ∡ 15'33	
minimum elong	5242 Dec 05 20:49	14° ₹ 37'08	0°44'10	evening set	5243 Nov 13 13:53	4° ∡ ³35'35	
asc. node	5242 Dec 08 00:02	12° ∡ ¹06'38		min. Earth dist.	5243 Nov 17 11:39	0° ∡ ¹49'32	0.65229 AU
morning rise	5242 Dec 11 17:18	8° ≯ 53'59			5243 Nov 18 05:28	30°RM₊	
direct	5242 Dec 14 18:08	8° ≯ 01'48		inferior conj	5243 Nov 19 14:06	28°M27'56	-1°46'42
morning max el	5242 Dec 21 10:19	11° ≯ 40'42	18°38'07	minimum elong	5243 Nov 19 17:10	28° ™ 19'17	1°45'25
	5243 Jan 03 16:44	0°ප		asc. node	5243 Nov 24 21:05	23°M28'01	
morning set	5243 Jan 11 06:30	11° る 56'14		morning rise	5243 Nov 25 21:30	22°M53'53	
desc. node	5243 Jan 13 07:17	15° る 08'59		direct	5243 Nov 28 14:05	22°M15'04	
	5243 Jan 22 17:46	0° ≈		morning max el	5243 Dec 05 01:25	25° M 42′25	18°05'45
					5243 Dec 08 16:58	0° ∡ ¹	
superior conj	5243 Jan 27 10:42	7° ≈ 22'45	-1°28'16	morning set	5243 Dec 23 05:41	22° ∡ ¹49'57	
minimum elong	5243 Jan 27 01:18	6° ≈ 45'57			5243 Dec 27 14:34	ರ∘8	
max. Earth dist.	5243 Jan 27 02:41	6° ≈ 51′20	1.45298 AU	desc. node	5243 Dec 31 04:18	5° る 47'57	
	5243 Feb 10 18:29	0° ∀					
evening rise	5243 Feb 12 01:59	2° ∺ 05'38		superior conj	5244 Jan 06 16:46	16° る 13'17	-0°44'17
greatest brilliancy	5243 Feb 20 06:16	15° ∺ 08'39	-0.8m	minimum elong	5244 Jan 06 11:18	15° る 51'39	0°43'32
	5243 Mar 02 06:03	$0^{\circ}\Upsilon$		max. Earth dist.	5244 Jan 09 22:34	21° る 20'17	1.45182 AU
evening max el	5243 Mar 05 17:44	4° Y 05′05	18°51'19		5244 Jan 15 11:25	0° ≈	
asc. node	5243 Mar 05 23:17	4° Ƴ 19'01		evening rise	5244 Jan 22 23:42	11° ≈ 39'57	

	5244 Feb 03 22:21	0°) €			5245 Jan 07 09:47	0° ≈	
araataat brillianas	5244 Feb 05 22:21 5244 Feb 05 02:31	0 X 1° ¥ 45'40	-0.7m		5245 Jan 28 22:48	0 ≈ 0° ∀	
greatest brilliancy evening max el	5244 Feb 17 00:27	17° H 37'59	19°39'07	evening max el	5245 Jan 30 01:51	0 X 1° ¥ 11'49	20°41'23
asc. node	5244 Feb 17 00.27 5244 Feb 20 20:19	20° H 47'10	19 3907	asc. node	5245 Feb 06 17:23	6° H 00'47	20 41 23
retrograde	5244 Feb 24 08:46	20 X 47 10 21° X 52'16		retrograde	5245 Feb 00 17:23 5245 Feb 07 07:07	6°\(\)(0047)	
Č	5244 Feb 24 08.46 5244 Feb 27 23:21	20°\(\frac{1}{36}\)'02		Č	5245 Feb 07 07.07 5245 Feb 11 06:38	4°)(31'44	
evening set		14° H 38'51	2015125	evening set			
inferior conj	5244 Mar 04 09:47		3°15'35 3°15'18	:	5245 Feb 15 10:08	30°R≈	2050100
minimum elong	5244 Mar 04 07:57	14°) 44'54		inferior conj	5245 Feb 16 15:00	28°≈22'03	2°50'09
min. Earth dist.	5244 Mar 05 12:37	13° ¥ 10′07	0.66853 AU	minimum elong	5245 Feb 16 12:40	28°≈30'04	2°49'35
morning rise	5244 Mar 09 16:20	8°) €23'58		min. Earth dist.	5245 Feb 17 04:23	27°≈36'04	0.67662 AU
direct	5244 Mar 15 18:11	5°) (41'25	25024126	morning rise	5245 Feb 21 18:29	22°≈08'05	
morning max el	5244 Mar 27 23:18	12°) 58'53	25°34'26	direct	5245 Feb 27 06:37	19°≈41'23	24000120
desc. node	5244 Mar 28 03:32	13°) €09'38		morning max el	5245 Mar 10 08:02	26°≈17'51	24°08'30
	5244 Apr 10 17:09	0° Υ			5245 Mar 13 17:56	0°) (
	5244 Apr 29 16:41	0° 8		desc. node	5245 Mar 15 00:34	1°) €29'53	
morning set	5244 May 03 04:01	6° 8 12'05			5245 Apr 04 07:00	0°Υ	
max. Earth dist.	5244 May 06 21:49	13° 8 09'06	1.36025 AU	morning set	5245 Apr 15 01:08	17° Y 42'43	
				max. Earth dist.	5245 Apr 18 18:19	24° Y 15'11	1.38080 AU
superior conj	5244 May 12 17:14	24° 8 28'37			5245 Apr 21 22:10	9° 8	
minimum elong	5244 May 12 20:32	24° 8 45'09	0°58'47				
	5244 May 15 10:53	$\Pi^{\circ}0$		superior conj	5245 Apr 25 21:19	7° 8 26'48	
asc. node	5244 May 18 19:35	6° Ⅱ 52'31		minimum elong	5245 Apr 26 02:01	7° 8 49'17	1°27'15
evening rise	5244 May 20 18:46	10° Ⅱ 53'28		evening rise	5245 May 04 18:14	24° 8 48'10	
	5244 May 31 00:17	0		asc. node	5245 May 05 16:38	26° 8 38'16	
evening max el	5244 Jun 07 10:36	9° 5 340'29	19°58'11		5245 May 07 10:04	Π $^{\circ}0$	
retrograde	5244 Jun 17 17:56	14°9543'04		evening max el	5245 May 21 06:24	21° Ⅱ 33'53	19°01'12
evening set	5244 Jun 19 15:53	14° © 33'22		retrograde	5245 May 29 22:31	25° Ⅱ 48'36	
desc. node	5244 Jun 24 02:43	13° © 04'50		evening set	5245 May 31 23:12	25° Ⅱ 35'36	
inferior conj	5244 Jun 28 15:37	10° © 33'02	-1°21'28	inferior conj	5245 Jun 09 04:41	21° Ⅱ 21′23	0°31'34
minimum elong	5244 Jun 28 11:50	10°538'46	1°20'03	minimum elong	5245 Jun 09 05:56	21° Ⅱ 19'12	0°31'06
min. Earth dist.	5244 Jun 30 13:58	9° 5 23'01	0.55231 AU	desc. node	5245 Jun 10 23:46	20° Ⅱ 06′09	
morning rise	5244 Jul 07 05:59	6°∽11'58		min. Earth dist.	5245 Jun 12 05:32	19° Ⅱ 15′22	0.56557 AU
direct	5244 Jul 11 12:11	5° © 32'21		morning rise	5245 Jun 17 09:22	16° Ⅲ 24'17	
morning max el	5244 Jul 25 06:23	12° © 19'02	24°11'40	direct	5245 Jun 22 13:57	15° Ⅱ 20'34	
C	5244 Aug 07 18:14	$0^{\circ}\Omega$		morning max el	5245 Jul 06 20:39	22° ∏ 42'34	25°49'11
asc. node	5244 Aug 14 18:53	12° Ω 48'49		Č	5245 Jul 13 08:30	0°ಅ	
morning set	5244 Aug 19 01:54	21° Ω 37'43			5245 Jul 31 10:16	$0^{\circ}\Omega$	
Ü	5244 Aug 22 23:12	0° m		asc. node	5245 Aug 01 15:56	2°Ω31'30	
		• •		morning set	5245 Aug 03 13:15	6° Ω 28'37	
superior conj	5244 Aug 26 00:46	6° ™ 40'29	1°33'36			• •••	
minimum elong	5244 Aug 25 22:56	6° mp 30'31	1°33'26	superior conj	5245 Aug 10 11:38	21° Ω 34'40	1°20'28
max. Earth dist.	5244 Aug 28 01:10	11° Mp 01'52	1.33001 AU	minimum elong	5245 Aug 10 09:22	21° Ω 22'12	
evening rise	5244 Sep 02 09:42	22° m 13'40	1.55001110	max. Earth dist.	5245 Aug 11 08:49		1.32254 AU
evening rise	5244 Sep 06 08:27	0° ए		max. Earth dist.	5245 Aug 14 08:13	0° m)	1.5225 1710
desc. node	5244 Sep 20 02:00	23° ₽ 26'00		evening rise	5245 Aug 17 00:15	6° Mp 40'48	
desc. node	5244 Sep 24 15:49	0°M		evening rise	5245 Aug 29 20:50	0∘ ಹ	
evening max el	5244 Oct 05 22:04	13°ML11'08	27°26'50	desc. node	5245 Sep 06 23:02	12° ≏ 28'20	
retrograde	5244 Oct 19 13:30	20°M28'35	27 2000	evening max el	5245 Sep 18 05:50	25° ⊆ 51'11	27°16'04
evening set	5244 Oct 26 16:31	17°M52'28		evening max er	5245 Sep 23 08:44	0°M	27 1001
min. Earth dist.	5244 Oct 30 09:11	14°M39'14	0.63637 AU	retrograde	5245 Oct 02 02:03	3°M04'44	
inferior conj	5244 Nov 01 23:35	12°M00'57		evening set	5245 Oct 02 02:03 5245 Oct 09 05:17	0°M44'08	
minimum elong	5244 Nov 02 04:33	11°M48'22		evening set	5245 Oct 10 06:58	30°R Ω	
morning rise	5244 Nov 08 18:05	6°M42'54	2 40 30	min. Earth dist.	5245 Oct 10 00:38 5245 Oct 12 20:25	27° £ 56'24	0.61758 AU
asc. node	5244 Nov 10 18:09	6°M14'45		inferior conj	5245 Oct 15 21:04	27 — 30 24 25° • 12'50	
direct	5244 Nov 10 18:09 5244 Nov 11 04:46	6°M13'47		minimum elong	5245 Oct 16 03:18	23 = 12 30 24° £ 58'46	
morning max el	5244 Nov 17 04.40 5244 Nov 17 18:21	9°M38'40	17°50'33	morning rise	5245 Oct 23 03:14	24° ⊆ 3840 20° ⊆ 13'54	3 30 02
morning max er	5244 Nov 17 18.21 5244 Dec 01 09:52	9 1163640 0° √	17 30 33	direct	5245 Oct 25 03:14 5245 Oct 25 10:54	20 = 13 34 19° ⊆ 50'58	
morning sat		5° ₹ 100'13		asc. node		20° £ 35'39	
morning set	5244 Dec 04 07:24	5 X.00.13			5245 Oct 28 15:12 5245 Nov 01 09:57	20° 1 235′39	17°53'27
superior con:	5244 Dog 16 17:57	26°.702121	0°02'10	morning max el		0°M	1/ 33 4/
superior conj	5244 Dec 16 17:57	26° ₹ 02'21		morning ast	5245 Nov 06 16:07		
minimum elong	5244 Dec 16 18:11	26° ₹ 03'19	0°02'09	morning set	5245 Nov 17 05:16	18°M07'59	
behind sun begin behind sun end	5244 Dec 16 08:33	25° 🖈 23'45			5245 Nov 23 19:34	0° ∡	
nemna sun ena	5244 Dag 17 02.40						
	5244 Dec 17 03:49	26° ₹ 42'47		aunories co-:	5245 Nov. 27 21-20	70.700114	0042102
desc. node	5244 Dec 17 01:19	26° ₹ 32'31		superior conj	5245 Nov 27 21:30	7° ₹ 08'14	
desc. node	5244 Dec 17 01:19 5244 Dec 19 04:14	26° ҂ 32'31 0° ප	1 44244 ATT	minimum elong	5245 Nov 28 00:55	7° ≯ 22'56	0°42'03 0°41'36
	5244 Dec 17 01:19	26° ҂ 32'31 0° ප	1.44344 AU				

page 79

	5245 Dec 11 19:14	0°ರ		evening rise	5246 Nov 22 09:51	10° х 43′53	
evening rise	5245 Dec 12 01:06	0° る 23'03		<i>y</i>	5246 Dec 04 19:06	0°る	
C	5246 Jan 01 00:17	0° ≈		evening max el	5246 Dec 26 13:39	28° る 25'44	23°13'46
evening max el	5246 Jan 12 21:53	14° ≈ 47′09	21°54'35	•	5246 Dec 28 05:02	0° ≈	
retrograde	5246 Jan 22 04:22	20°≈17'43		retrograde	5247 Jan 05 22:57	4° ≈ 34'38	
asc. node	5246 Jan 24 14:27	19° ≈ 46'35		evening set	5247 Jan 10 21:07	2° ≈ 32'49	
evening set	5246 Jan 26 14:25	18° ≈ 31'36		asc. node	5247 Jan 11 11:29	2° ≈ 00'51	
inferior conj	5246 Jan 31 22:35	12° ≈ 12'36	2°15'41		5247 Jan 13 08:20	30°Rる	
minimum elong	5246 Jan 31 20:13	12° ≈ 20'49	2°14'57	inferior conj	5247 Jan 16 06:38	26° පි 08'07	1°33'26
min. Earth dist.	5246 Jan 31 23:51	12° ≈ 08'11	0.68067 AU	minimum elong	5247 Jan 16 04:41	26° ප 14'47	1°32'43
morning rise	5246 Feb 06 01:50	6° ≈ 01'14		min. Earth dist.	5247 Jan 15 20:36	26° ⋜ 42'38	0.68090 AU
direct	5246 Feb 10 23:27	3° ≈ 55'31		morning rise	5247 Jan 21 12:11	20° පි 01'05	
morning max el	5246 Feb 20 18:04	9° ≈ 42'12	22°39'12	direct	5247 Jan 25 19:32	18° る 18'14	
desc. node	5246 Mar 01 21:36	20° ≈ 36′18		morning max el	5247 Feb 03 09:12	23° る 16'08	21°15'15
	5246 Mar 08 16:30	0° ℋ			5247 Feb 09 05:12	0° ≈	
morning set	5246 Mar 26 19:55	27°) 56′01		desc. node	5247 Feb 16 18:37	10° ≈ 16′10	
	5246 Mar 28 01:57	0 ° $\mathbf{\gamma}$			5247 Mar 02 01:01	0° ℋ	
max. Earth dist.	5246 Mar 31 14:02	5° Ƴ 53'31	1.40282 AU	morning set	5247 Mar 06 10:22	6° 升 50′19	
				max. Earth dist.	5247 Mar 13 15:55	18°) €27'29	1.42343 AU
superior conj	5246 Apr 08 09:09	19° Ƴ 36′05					
minimum elong	5246 Apr 08 14:03	19° Ƴ 58′20	1°51'28	superior conj	5247 Mar 20 23:48	0° Y 45′20	
	5246 Apr 14 00:13	$_{0\circ}$ 8		minimum elong	5247 Mar 21 02:22	0° Y 56′20	2°06'43
evening rise	5246 Apr 18 08:00	8° 8 10'28			5247 Mar 20 13:14	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	5246 Apr 22 13:42	16° 8 07'03		evening rise	5247 Apr 01 08:11	20° Y 51'42	
	5246 May 01 00:12	$\Pi^{\circ}0$			5247 Apr 06 10:16	0°8	
evening max el	5246 May 04 11:24	4° Ⅱ 03'31	18°24'32	asc. node	5247 Apr 09 10:45	5° 8 13'03	
retrograde	5246 May 11 21:48	7° Ⅱ 44'47		evening max el	5247 Apr 17 21:58	17° 8 00'16	18°07'44
evening set	5246 May 14 05:24	7° Ⅱ 24'19		retrograde	5247 Apr 24 14:43	20° 8 24'45	
inferior conj	5246 May 21 15:02		1°58'39	evening set	5247 Apr 27 05:10	19° 8 54'10	
minimum elong	5246 May 21 18:27	2° ∏ 43′22	1°57'37	inferior conj	5247 May 03 21:48	14° 8 59'18	
min. Earth dist.	5246 May 25 01:26	0° Ⅱ 03'50	0.58499 AU	minimum elong	5247 May 04 00:49	14° 8 52'09	2°54'06
	5246 May 25 03:25	30° ₹8		min. Earth dist.	5247 May 07 03:51	11° 8 56'05	0.60697 AU
desc. node	5246 May 28 20:49	27° 8 30'42		morning rise	5247 May 10 18:17	9° 8 06'46	
morning rise	5246 May 29 04:21	27° 8 20'39		desc. node	5247 May 15 17:50	7° 8 04'55	
direct	5246 Jun 04 05:59	25° 8 44'03		direct	5247 May 17 09:46	6° 8 56'55	0.70464.0
	5246 Jun 14 16:20	0°II	2500 420	morning max el	5247 May 31 16:27	14° 8 52'36	27°46'13
morning max el	5246 Jun 18 15:18	3° Ⅱ 27'50	27°04'29		5247 Jun 12 22:05	0° I	
	5246 Jul 07 22:17	0°95			5247 Jun 30 09:02	0°©	
morning set	5246 Jul 18 22:34	21°511'04		morning set	5247 Jul 03 04:03	5°939'44	
asc. node	5246 Jul 19 12:58	22°527'01		asc. node	5247 Jul 06 09:59	12°530'36	1 22020 ATT
	5246 Jul 23 00:57	0 ° Ω		max. Earth dist.	5247 Jul 09 06:24	18° © 41'52	1.32030 AU
superior conj	5246 Jul 25 23:28	6°Ω28'29	1°02'43	superior conj	5247 Jul 10 10:33	21° © 16'23	0°40'54
minimum elong	5246 Jul 25 21:15	6° Ω 16'12	1°02'43	minimum elong	5247 Jul 10 10:33 5247 Jul 10 08:51	21°506'59	0°40'32
max. Earth dist.	5246 Jul 25 19:48	6° Ω 08'11	1.31931 AU	minimum clong	5247 Jul 10 08:31 5247 Jul 14 09:47	0°Ω	0 40 32
evening rise	5246 Aug 01 19:19	21° Ω 21'17	1.51751 AO	evening rise	5247 Jul 17 05:55	6° Ω 08'14	
evening rise	5246 Aug 06 00:22	0° Mp		evening rise	5247 Jul 29 17:33	0°M)	
	5246 Aug 24 08:13	0∘ ಹ		desc. node	5247 Aug 11 17:05	17° m) 31'46	
desc. node	5246 Aug 24 20:04	0° - 237'23		evening max el	5247 Aug 11 17:03 5247 Aug 13 01:33	18° my 52'19	25°17'18
evening max el	5246 Aug 31 07:32	7° ≏ 46'26	26°31'49	retrograde	5247 Aug 26 23:56	25° m 55'41	
retrograde	5246 Sep 14 06:10	14° £ 55'00		evening set	5247 Sep 01 18:22	24° m/39'15	
evening set	5246 Sep 20 23:28	13° ♀ 02'15		min. Earth dist.	5247 Sep 06 13:12	21° m 58'39	0.57682 AU
min. Earth dist.	5246 Sep 24 21:13		0.59703 AU	inferior conj	5247 Sep 09 14:04	19° m 54'32	
inferior conj	5246 Sep 28 03:01	7° £ 54'02		minimum elong	5247 Sep 09 16:20	19° m 50'40	5°15'08
minimum elong	5246 Sep 28 08:48	7° £ 42'36		morning rise	5247 Sep 17 16:34	15° m 40'29	2 12 00
morning rise	5246 Oct 05 20:15	3° £ 16'56		direct	5247 Sep 20 04:57	15° m) 21'33	
direct	5246 Oct 08 04:22	2° £ 57'12		morning max el	5247 Sep 28 23:40	19° m) 31'15	18°59'26
asc. node	5246 Oct 15 12:14	6° £ 22'10		asc. node	5247 Oct 02 09:15	23° m 19'39	•
morning max el	5246 Oct 15 20:51	6° £ 42'34	18°15'54		5247 Oct 06 21:43	0∘ ⊽	
5	5246 Oct 30 16:53	0° M ,		morning set	5247 Oct 15 15:32	16° £ 12'36	
morning set	5246 Oct 31 17:28	1°M56'25		٥	5247 Oct 22 15:45	0°M	
Č							
superior conj	5246 Nov 10 01:21	19°M24'37	1°11'45	superior conj	5247 Oct 24 00:15	2°M36'35	1°31'05
minimum elong	5246 Nov 10 05:12	19° M 42'07		minimum elong	5247 Oct 24 03:01	2°M49'52	1°30'51
3	5246 Nov 16 00:35	0° ∡ ¹		max. Earth dist.	5247 Oct 30 21:12	15°M21'50	1.38899 AU
max. Earth dist.	5246 Nov 17 15:38	2° ҂ 47'30	1.41002 AU	evening rise	5247 Nov 03 17:22	22°M06'23	
desc. node	5246 Nov 20 19:21	8° ₹ 05'28		desc. node	5247 Nov 07 16:21	28°M46'37	

	5247 Nov 08 10:12	0° ∡ ¹		max. Earth dist.	5248 Oct 12 02:59	27° ≏ 23'48	1.36841 AU
	5247 Nov 28 17:52	8°0			5248 Oct 13 12:11	0° M ₊	
evening max el	5247 Dec 09 02:53	12° る 07'35	24°32'51	evening rise	5248 Oct 15 22:26	4°M28'05	
retrograde	5247 Dec 20 13:44	18° る 48'51		desc. node	5248 Oct 24 13:22	19° M .18'51	
evening set	5247 Dec 26 01:10	16° る 31'52			5248 Oct 31 09:05	0° ∡ ¹	
asc. node	5247 Dec 29 08:31	12° る 58'49		evening max el	5248 Nov 20 15:23	25° ₹ '51'30	25°44'53
min. Earth dist.	5247 Dec 30 16:19	11° る 15'38	0.67748 AU		5248 Nov 25 12:13	8°0	
inferior conj	5247 Dec 31 13:20	10° る 05'34	0°44'18	retrograde	5248 Dec 03 00:02	2° る 55'41	
minimum elong	5247 Dec 31 12:17	10° る 09'04	0°43'54	evening set	5248 Dec 09 00:57	0° る 25'49	
morning rise	5248 Jan 05 23:31	4° る 04'43			5248 Dec 09 12:46	30°₽ ⋌	
direct	5248 Jan 09 17:39	2° る 43'57		min. Earth dist.	5248 Dec 13 08:48	25° ∡ ¹44'18	0.67049 AU
morning max el	5248 Jan 17 08:01	7° る 02'03	20°02'30	inferior conj	5248 Dec 14 16:55	24° ₹ 02'31	-0°10'43
	5248 Feb 03 10:17	0° ≈		minimum elong	5248 Dec 14 17:12	24° ҂ 01'38	0°10'35
desc. node	5248 Feb 03 15:37	0° ≈ 19'56		transit middle	5248 Dec 14 17:12	24° 尽 01'38	0°10'35
morning set	5248 Feb 13 07:17	15° ≈ 01'31		transit begin	5248 Dec 14 15:04	24° ₹ ¹08'24	
	5248 Feb 22 20:55	0° ₩		transit end	5248 Dec 14 19:20	23° х 54′53	
max. Earth dist.	5248 Feb 24 01:32	1° ¥ 54'00	1.43989 AU	asc. node	5248 Dec 15 05:31	23° х 22'44	
				morning rise	5248 Dec 20 09:52	18° ∡ ¹09'58	
superior conj	5248 Feb 29 13:09	10° ¥ 45'34	-2°07'00	direct	5248 Dec 23 16:24	17° ҂ 08'32	
minimum elong	5248 Feb 29 10:09	10° ¥ 33'16		morning max el	5248 Dec 30 14:41	20° х 58'38	19°04'17
Z .	5248 Mar 12 00:32	0° Y		Ü	5249 Jan 06 20:43	ರ°ರ	
evening rise	5248 Mar 13 14:18	2° Y '42'08		desc. node	5249 Jan 20 12:39	20° ට 41'23	
asc. node	5248 Mar 26 07:46	23° Y '48'18		morning set	5249 Jan 22 11:06	23° ප් 41'59	
	5248 Mar 31 05:01	0°8			5249 Jan 26 12:11	0°≈	
evening max el	5248 Mar 31 10:43	0° 8 14'24	18°10'14	max. Earth dist.	5249 Feb 05 17:01	15° ≈ 57'32	1.45024 AU
retrograde	5248 Apr 06 20:47	3° 8 37'22					
evening set	5248 Apr 09 17:30	2° 8 55'13		superior conj	5249 Feb 08 02:58	19° ≈ 45'59	-1°47'55
evening sec	5248 Apr 13 15:08	30°RY		minimum elong	5249 Feb 07 18:20	19°≈11'53	
inferior conj	5248 Apr 15 21:11	27° Υ '40'41	3°24'04	minimum crong	5249 Feb 14 13:15	0° ∀	1 1, 13
minimum elong	5248 Apr 15 22:43	27° Υ '36'34	3°23'55	evening rise	5249 Feb 22 22:28	13°) ₹35'56	
min. Earth dist.	5248 Apr 18 15:04	24° Υ 44'36	0.62833 AU	evening rise	5249 Mar 05 00:13	0°Υ	
morning rise	5248 Apr 22 02:38	21° Y '34'44	0.02033 710	asc. node	5249 Mar 13 04:47	11° Υ 43'36	
direct	5248 Apr 28 23:00	18° Υ 59'18		evening max el	5249 Mar 14 22:51	13° Υ 39'27	18°31'15
desc. node	5248 May 01 14:51	19° Υ 20'32		retrograde	5249 Mar 21 11:30	17° Υ 13'47	10 31 13
morning max el	5248 May 12 23:13	26° Υ 59'33	27°50'12	evening set	5249 Mar 24 14:30	16° Υ 19'08	
morning max er	5248 May 15 19:12	0° 8	27 30 12	inferior conj	5249 Mar 30 09:05	10° Y 46'43	3°32'40
	5248 Jun 05 13:47	0°II		minimum elong	5249 Mar 30 09:01	10° Υ 46'54	3°32'40
mamina aat	5248 Jun 16 03:35	0 H 19°H48'10		min. Earth dist.	5249 Apr 01 11:48	8° Υ 16'22	0.64703 AU
morning set	5248 Jun 21 01:30	19 Д 46 10			*	4° Υ 34'13	0.04703 AU
max. Earth dist.	5248 Jun 21 12:42		1.32552 AU	morning rise	5249 Apr 05 02:50 5249 Apr 11 20:20	1° Υ 45'41	
		0 93941 2°937'53	1.32332 AU	direct desc. node	•	3° Υ 58'29	
asc. node	5248 Jun 22 07:01	2 \$23733			5249 Apr 18 11:53	3 1 38 29 9° Υ 40'40	27919125
	5240 I 22 10.07	50050141	0015126	morning max el	5249 Apr 25 08:56		27°18'35
superior conj	5248 Jun 23 19:07	5°952'41			5249 May 11 07:01	0°Ⅱ 0°8	
minimum elong behind sun begin	5248 Jun 23 18:22	5°9548'41	0 13 23	marning sat	5249 May 28 23:20	3° ∏ 27'32	
C	5248 Jun 23 17:03 5248 Jun 23 19:41	5°9541'32		morning set	5249 May 30 18:24 5249 Jun 04 10:31		1 22520 AII
behind sun end evening rise	5248 Jun 30 17:43	5°955'51		max. Earth dist.	3249 Juli 04 10.31	12 1149 12	1.33530 AU
evening rise	5248 Jul	20° © 55'17 0° Ω		superior conj	5249 Jun 07 23:08	20° Ⅱ 10'52	0012120
evening max el	5248 Jul 24 14:12	29° Ω 21'21	22042140	minimum elong	5249 Jun 07 23:47	20° I 10'32	
evening max er	5248 Jul 25 06:32	0° m)	23 43 40	behind sun begin	5249 Jun 07 20:15	20 Ⅱ 1417 19° Ⅱ 55'34	0 1221
desc. node		ربات 2°Mp42'51		_		20° I 33'01	
	5248 Jul 28 14:05			behind sun end	5249 Jun 08 03:19	20 H 33 01 22° H 44'16	
retrograde	5248 Aug 07 06:01	6° Mp 13'01		asc. node	5249 Jun 09 04:02	22 11 44 10	
evening set	5248 Aug 11 13:50	5° TQ 31'52	0.55000 ATT		5249 Jun 12 13:36		
min. Earth dist.	5248 Aug 18 00:12		0.55990 AU	evening rise	5249 Jun 15 04:48	5°935'37	
inferior conj	5248 Aug 20 04:57	1° Mp 08'49			5249 Jun 28 09:13	0° Ω	22907144
minimum elong	5248 Aug 20 00:52	1° TD 15'00	3 08 37	evening max el	5249 Jul 06 04:57	9° Ω 43'34	22 00 44
	5248 Aug 22 03:25	30°RΩ		desc. node	5249 Jul 15 11:07	15° Ω 35'37	
morning rise	5248 Aug 28 14:23	27° Ω 13'36		retrograde	5249 Jul 19 00:26	16° Ω 05'04	
direct	5248 Aug 31 09:54	26° Ω 53'46		evening set	5249 Jul 21 21:19	15° Ω 46'44	0.54064 411
	5248 Sep 08 16:28	0°M)	20004152	min. Earth dist.	5249 Jul 30 10:17		0.54964 AU
morning max el	5248 Sep 10 15:34	1° TD 39'29	20°04'53	inferior conj	5249 Jul 31 03:24	11° Ω 42'01	
asc. node	5248 Sep 18 06:16	11° TD 13'20		minimum elong	5249 Jul 30 18:43	11° Ω 54'14	4~10'34
	5248 Sep 28 10:54	0° Ω		morning rise	5249 Aug 08 17:49	7° Ω 51'56	
morning set	5248 Sep 28 20:17	0° ≏ 47'37		direct	5249 Aug 11 22:54	7° Ω 28'58	21020152
	5040 O + 06 12 00	160.000110	1041100	morning max el	5249 Aug 23 19:21	13° Ω 01'27	21°30'53
superior conj	5248 Oct 06 13:08	16° Ω 29'49		asc. node	5249 Sep 05 03:18	29° Ω 49'35	
minimum elong	5248 Oct 06 14:21	16° ≏ 35'57	1~41.05		5249 Sep 05 05:40	0° т р	

Mathematical Same	morning set	5249 Sep 13 05:11	15° Mp 33'40		morning set	5250 Aug 28 11:33 5250 Aug 28 16:23	0° Mp 0° Mp 25'25	
Name	superior conj	5249 Sep 20 11:46	0° £ 51′02	1°43'19	S	Č	ì	
max. Earth dist, covering rise (2498 Sp.) 28 1/19 179 (2794 Sp.) 179,879 (2794 Sp.) 179,879 (2794 Sp.) 135,964 AU exeming rise (2508 Sp.) 1 105.6 (2694 Sp.) 0°A	minimum elong	5249 Sep 20 11:31	0° £ 49'45	1°43'19	superior conj	5250 Sep 04 17:02	15° m 30'44	1°38'49
ane. Earth diff. 290 Sp. 29 1, 1417 79-83/29 Sp. 1 500 (%) 1350 AU exeming rise 250 Sp. 20 15 1610 0"L centing rise 252 Sp. 20 15 1610 0"L centing rise 252 Sp. 20 15 1610 0"L centing rise 252 Sp. 20 17 152 Sp. 20 Part 19 150 Part 19	_	=	0∘ ⊽		minimum elong	5250 Sep 04 15:39	15° m 23'20	1°38'44
Separation Sep	max. Earth dist.	5249 Sep 24 14:17	9° £ 15′24	1.35044 AU	_	5250 Sep 07 10:26	21° mp 18'18	1.33630 AU
Second S249 Oct 11 1024 9"B,309 Second S290 Sec 28 0725 Second S290	evening rise	5249 Sep 28 21:07	17° ≏ 38'20				0° ت	
Supplement Sup	C	•	0° M .		evening rise	•	1° ≏ 26'12	
Sevening max S249 Nov 0.0 405 99/3140 204278 returng max S29 Oct 27 16.16 16.7 27 18.7 Ferring get S249 Nov 2.1832 14790934 returng max S29 Oct 27 16.16 16.2 0.0 47 17.1 Ferring get S249 Nov 2.1832 14790934 returng get S29 Oct 20 16.10 1.0 30 Not Ferring get S249 Nov 2.1832 77.8427 -11037 returng get S29 Nov 0.1204 30 Not Ferring get S249 Nov 2.1832 77.84287 -11037 returng get S29 Nov 0.2258 27 18.0718 Ferring get S249 Nov 2.1832 77.84287 17037 returng get S29 Nov 0.2258 27 18.0718 Ferring get S249 Nov 2.1832 77.84287 17037 returng get S29 Nov 12 0.02 27 18.0718 Ferring get S249 Nov 2.1832 77.84287 17037 returng get S29 Nov 12 0.02 27 18.0718 Ferring get S249 Nov 2.1832 77.84287 17037 returng get S29 Nov 12 0.02 27 18.0718 Ferring get S249 Nov 2.1832 77.84287 17039 returng get S29 Nov 12 0.02 18.002 17.2418 returng get S29 Nov 12 0.02 18.002 18.002 18.002 returng get S29 Nov 12 0.02 returng get S29 Nov 12	desc. node	5249 Oct 11 10:24	9°M36'08		desc. node	5250 Sep 28 07:25	29° £ 31'51	
Part		5249 Oct 25 15:56	0° ∡ ¹			5250 Sep 28 14:43	0° M	
Persing and \$240 Now 22 18-32 14-7-19-99 14-	evening max el	5249 Nov 03 04:05	9° ,₹ 31'40	26°42'38	evening max el	5250 Oct 16 16:37	22°M59'02	27°18'38
Septemble Supple Now 2 18-32 1	retrograde	5249 Nov 16 05:06	16° ∡ ¹47'43		•	5250 Oct 27 18:16	0° ∡ ¹	
sin Earth dist 324 Now 2 6 1947 10°P0'12 0.5991 AU evening set 529 Nov 0 1 2.04 30°RL 30°RL inficirio conj 5249 Nov 2 8 17:22 7°R4875 1'19946 mice and 0.520 Nov 12 06:25 22°R10602 0.64591 AU asc. node 5249 Dec 01 7:02 2°R27121 minimum clong 5250 Nov 12 06:25 21°R10602 0.64591 AU direct 5249 Dec 10 7:37 1°R2050 morning mice 5250 Nov 12 06:25 21°R10602 1°C1 morning met 5249 Dec 10 90:21 1°R2050 morning set 5250 Nov 12 06:26 1°R10785 2°170 Nov 12 06:26 1°R11255 2°170 Nov 12 06:26 1°R1255 2°170 Nov 12 06:26 <td></td> <td>5249 Nov 22 18:32</td> <td>14°₹09'34</td> <td></td> <td>retrograde</td> <td>5250 Oct 30 04:11</td> <td>0°҂17'12</td> <td></td>		5249 Nov 22 18:32	14° ₹ 09'34		retrograde	5250 Oct 30 04:11	0° ҂ 17'12	
Inferior corig \$249 Nov 28 15.23 \$72.8427 -191073 evening set \$250 Nov 10 03.28 278.7378 each min Earth dist. \$250 Nov 12 06.25 278.7378 each morning rise \$249 Dec 02 02.22 24.70811 minimum clong \$250 Nov 12 06.25 278.7362 271.7370 each morning rise \$249 Dec 04 17.02 22.71291 minimum clong \$250 Nov 12 10.19 21.82551 271.209 each morning rise \$250 Dec 14 03.24 47.87999 18°2213 eac. node \$250 Nov 12 10.19 21.82551 271.209 each morning set \$250 Dan 02 17.03 376.335 each morning set \$250 Dan 02 17.03 376.335 each morning set \$250 Dan 02 17.03 376.335 each morning set \$250 Dan 02 17.03 277.51143 eac. node \$250 Nov 27 19.35 1888.7213 eac. node \$250 Nov 27 19.35 1888.72124 eac. node \$250 Nov 27 19.35 1888.7213 eac. node \$250 Nov 27 19.35 1888.72124 eac. node \$250 Dan 18 0.605 828.7242 e107.99 eac. node \$250 Dec 15 0.417 12.871224 eac. node \$250 Dan 18 0.605 828.7242 e107.99 eac. node \$250 Dec 15 0.417 12.871224 eac. node \$250 Dec 15 0.417 eac.	•	5249 Nov 26 19:47	10° ₹ 03'12	0.65991 AU	C	5250 Nov 01 12:04	30°RM₊	
minimum elong 5249 Nov 28 17.22 79.74875 19946 min. Earth dist 5259 Nov 192 2.65 247mGot 00 2.64591 AU 247mGot 00 2.650 247mGot	inferior conj	5249 Nov 28 15:23	7° ∡ 754'27	-1°10'37	evening set	5250 Nov 06 03:28	27°M37'58	
Second S249 Dec 0 0 0.33	minimum elong	5249 Nov 28 17:22	7° ∡ ¹48'35	1°09'46	•	5250 Nov 09 22:56	24°M06'02	0.64591 AU
direct 5249 Dec 01 13:57 1°P2050 moming many 2529 Nov 18 18:24 16°III.02°S moming and 5249 Dec 31 09:21 0°PG direct 5250 Nov 21 08:06 15°III.22°S morning set 5250 Jan 0 09:21 1°PG direct 5250 Nov 21 08:06 15°III.22°S superior cooj 5250 Jan 18 06:05 28°E32429 1°1039 esc. node 5250 Dec 15 04:17 1°57612 superior cooj 5250 Jan 18 06:05 28°E32429 1°1039 esc. node 5250 Dec 25 06:42 1°35672 max. Earth dist. 5250 Jan 19 00:26 0°8 0°8 0°8 0°8 evening rise 5250 Jan 19 00:30 23°8429 1°939 esc. node 5250 Dec 25 06:42 1°35676 max. Earth dist. 5250 Jan 19 01:138 0°80073 1.45337 AU superior conj 5250 Dec 25 06:42 1°35676 greats brilliancy 5250 Feb 20 00:072 23°84770 greats brilliancy 5250 Jan 18 00:00 1°470413 evening rise 5250 Mar 08 17:10 10°740 evening rise 5251 Jan 12 22:13 20°857	•	5249 Dec 02 02:32	4° ≯ 08'11		inferior conj	5250 Nov 12 06:25	21°M36'22	-2°13'41
direct 5249 Dec 01 13:57 1°P2050 moming many 2529 Nov 18 18:24 16°III.02°S moming and 5249 Dec 31 09:21 0°PG direct 5250 Nov 21 08:06 15°III.22°S morning set 5250 Jan 0 09:21 1°PG direct 5250 Nov 21 08:06 15°III.22°S superior cooj 5250 Jan 18 06:05 28°E32429 1°1039 esc. node 5250 Dec 15 04:17 1°57612 superior cooj 5250 Jan 18 06:05 28°E32429 1°1039 esc. node 5250 Dec 25 06:42 1°35672 max. Earth dist. 5250 Jan 19 00:26 0°8 0°8 0°8 0°8 evening rise 5250 Jan 19 00:30 23°8429 1°939 esc. node 5250 Dec 25 06:42 1°35676 max. Earth dist. 5250 Jan 19 01:138 0°80073 1.45337 AU superior conj 5250 Dec 25 06:42 1°35676 greats brilliancy 5250 Feb 20 00:072 23°84770 greats brilliancy 5250 Jan 18 00:00 1°470413 evening rise 5250 Mar 08 17:10 10°740 evening rise 5251 Jan 12 22:13 20°857	morning rise	5249 Dec 04 17:02	2° √ 12'41		minimum elong	5250 Nov 12 10:19	21°M25'51	2°12'09
Manuming max el	-		1°×726'50		•	5250 Nov 18 18:24		
March Marc				18°22'13	-			
morning set 325 Jan 02 170 9.75 175								
Signatur	morning set							17°57'01
minimum elong S250 Jan 18 06.05 28°S24'29 -1°10'39 desc. node S250 Dec 21 60.42 1°56'62 1°5	•				morning max or			17 37 01
Superior conj S250 Jan 18 06.05 28°B3479 1°10'39 desc. node 5250 Dec 25 06.42 1°10'56 1°10'10'10'10'10'10'10'10'10'10'10'10'10'1	dese. Hode	3230 Juli 07 07.42	11 013 03		morning set			
minimum clong S250 Jan 17 21:43 27°85142 1°90'39 desc. node 5250 Dec 25 06:42 1°85'62 1°	superior coni	5250 Jan 18 06:05	28° 云 24'29	-1°10'39	morning set			
Part					desc node			
Max. Earth dist, cycning rise 250 Feb 30 702 223 84.54 minimum clong 5250 Dec 28 18.32 7°53.459 0°24'13 0°24'13 0°24'14 0°44'14 0	minimum clong			1 0939	desc. flode	3230 DCC 23 00.42	1 03020	
Part	may Earth dist			1 45227 ATT	superior coni	5250 Dag 20 10:22	70=324150	0024112
S250 Feb 07 09-29 0° \times max. Earth dist. S251 Jan 02 06-53 14° \(34600 \) 1.449 12 AU greatest brilliance S250 Feb 26 08-07 2° \times 10° \times 10° \times 252 Jan 12 01.13 0° \times 2° \times 13 22-43 2° \times 2° \times 14° \times 13 22-43 2° \times 22-13 2° \ti				1.43337 AU				
greatest brilliancy \$250 Feb 13 20.00 10°M0323 -0.8m cening rise \$251 Jan 12 0.113 0°% Cening rise \$251 Jan 13 20.13 2°%≈5718 10°% 2°%≈5718 2°%≈5718 2°%≈5718 2°%≈5718 2°%≈5718 2°%≈5718 2°%≈5718 2°%∞×5798 3°% 4°%	evening rise				C			
evening max el asc. node \$250 Feb 28 0148 28°H4740 28°H4740 greatest brilliancy \$251 Jan 13 22:43 22°as5718 24°as5939 0.6m asc. node \$250 Feb 28 0148 28°H4740 0°°P° 2521 Jan 28 12:45 24°as5939 0.6m retrograde \$250 Mar 01 17:50 0°°P° 2521 Feb 10 00:03 0°H 2521 Feb 10 12:46 10°H4432 20°04070 evening set \$250 Mar 08 17:17 29°H5942 asc. node 5251 Feb 10 12:252 14°H4553 12°C 14°H5132 13°C 14°H4553 14°H5132 13°C 14°H4553 14°H5133 13°C 14	areatest brillians:			0.9	max. Earm dist.			1.44912 AU
Second	-				ovenina riae			
Pertograde S250 Mar 01 17:50 0°°V evening max el S251 Feb 01 00:03 0°°X evening set S250 Mar 08 17:10 29°X 59°Y 2 asc. node S251 Feb 14 22:52 14°X 44°X 53°X 14°X 44°X 53°X 14°X 44°X 18°X	=			19 0947	Č			0.6m
Petrograde 5250 Mar 08 17:16 1°9°07'43 29°45'942 asc. node 5251 Feb 19 12:46 10° ±44'32 20°04'07 29°45'942 asc. node 5251 Feb 17 05:15 15° ±13'12 11° ±45'53 11° ±45'53 11° ±11'10 11° ±45'53 11° ±11'10 11° ±45'53 11° ±11'10 11° ±45'53 11° ±11'10 11° ±45'53	asc. node				greatest orimancy			-0.0111
cvening set 5250 Mar 08 17:17 29°\(\frac{3}{5}\) 29′\(\frac{5}{5}\) 30°\(\frac{1}{1}\) 29°\(\frac{5}{5}\) 30°\(\frac{1}{1}\) 29°\(\frac{5}{5}\) 30°\(\frac{1}{1}\) 29°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 23°\(\frac{5}{5}\) 3°\(\frac{5}{5}\) 3°\(\frac{5}\) 3°\(\frac{5}{5}\) 3°\(\frac{5}{5}\) 3°\(\frac{5}{5}\) 3°\(\frac{5}{5}\) 3°\(\frac{5}{5}\) 3°\(\frac{5}{5}\) 3°								20004107
Secondary Sec	•				_			20 04 07
minferior conj minimum elong s250 Mar 14 04:37 22°418'06 0.6619 AU minimum elong s251 Feb 26 06:42 7°845'73'8 0.6725'3 AU minimum elong s251 Feb 26 06:42 7°845'73'8 0.6725'3 AU minimum elong s250 Mar 26 00:25 15°840'80'8 minimum elong s251 Mar 03 13:42 1°843'34' 0.6725'3 AU minimum elong s250 Mar 26 00:25 15°840'80'8 morning rise s251 Mar 03 13:42 1°843'34' 0.6725'3 AU morning max el s250 Mar 19 15:61 22°843'47 26°18'20 direct s251 Mar 03 13:42 1°843'47 10'94' 0.684' 0.6	evening set							
minimum elong				2025120	•			
min. Earth dist.	•				=			2005150
morning rise 5250 Mar 19 15:36 17° ¥.5628 min. Earth dist. 5251 Feb 27 05:48 6° \\$37'38 0.67253 AU direct 5250 Mar 26 00:25 15° \\$40808 morning rise 5251 Mar 03 13:42 1° \\$433'47 1° \\$408000 1° \\$40800 1° \\$40800 1° \\$40800 1° \\$40800 1° \\$40800 1° \\$	Č				,			
direct 5250 Mar 26 00:25 15° ₩08'08 morning rise 5251 Mar 03 13:42 1° ₩33'47 desc. node 5250 Apr 05 08:56 20° ₩25'31 520 Mar 07 18:51 22° ₩3'47 26°18'20 direct 5251 Mar 05 16:05 30° R≈ 5250 Mar 07 18:51 22° ₩3'47 26°18'20 direct 5251 Mar 09 10:03 28° ∞≈ 66'55 5250 Mar 04 14:03 0° ₩ morning max el 5251 Mar 13 12:23 0° ₩ 5250 Mar 04 14:03 0° ₩ morning max el 5251 Mar 13 12:23 0° ₩ 5550 Mar 13 12:23 0° № 5550 M				0.66191 AU	_			
Morning max el 5250 Apr 05 08:56 20°\H25'31 22°\H34'47 26°18'20 direct 5251 Mar 05 16:05 30°\R≈	•							0.6/253 AU
Morning max el S250 Apr 07 18:51 22° #43'47 26°18'20 direct 5251 Mar 09 10:03 28°≈56'55 30° #4 30° #4 30° *4					morning rise			
S250 Apr 14 04:44 0°Ψ S251 Mar 13 12:23 0°H S250 May 04 14:03 0°B morning max el S251 Mar 21 03:42 S°H5757 Z4°S8'50 morning set S250 May 13 20:58 16°B27'46 desc. node S251 Mar 23 05:59 8°H10'55 S°H0'35 S250 May 17 21:08 Z4°B0'738 1.34984 AU morning set S251 Apr 08 18:01 0°Ψ S251 Apr 27 01:29 0°B S250 May 20 20:08 0°H morning set S251 Apr 27 01:29 0°B S250 May 22 20:20 4°H0'439 0°42'09 max. Earth dist. S251 Apr 27 01:29 0°B S250 May 22 20:20 4°H16'30 0°41'42 S251 Apr 27 01:29 S°B0'937 1.36869 AU Minimum elong S250 May 27 01:05 12°H46'03 0°41'42 Superior conj S250 May 30 13:15 20°H0'336 minimum elong S251 May 06 07:41 17°B25'27 1°11'48 S250 May 30 13:15 20°H0'336 minimum elong S251 May 10 11:40 17°B4'58 1°11'09 S250 Jun 04 12:14 0°H S251 May 12 14:41 0°H S251 May 29 21:48 0°G S250 May 20 11'40 S250 Jun 14 12:44 26°G0'40'0 S251 May 13 18:34 1°G5'942 19°31'26 S250 May 30 13:15 S2°G5'50 -2°30'18 retrograde S250 Jun 10 13:42 S2°G5'65'0 -2°30'18 retrograde S251 Jun 10 08:03 6°G4'006 minimum elong S250 Jul 10 13:42 S2°G6'64 3 2°27'54 evening set S251 Jun 10 08:03 6°G4'006 minimum elong S250 Jul 1 1 21:32 21°G21'07 0.54856 AU desc. node S251 Jun 10 08:03 6°G2'29'28 min. Earth dist. S250 Jul 1 2 1:48 17°G5'216 minimum elong S251 Jun 10 08:03 6°G2'42'4 0°31'17 direct S250 Jul 23 08:19 17°G5'216 minimum elong S251 Jun 20 23:04 2°G2'42'4 0°31'17 direct S250 Jul 23 08:19 17°G5'216 minimum elong S251 Jun 20 1:40 2°G6'36 0°30'46 minimum elong S251 Jun 20 1:40 2°G6		•		2 (01 012 0				
morning set 5250 May 04 14:03 0°8 morning max el 5251 Mar 21 03:42 5° \(\frac{\chi}{\chi}\) 5757 24° 58'50 morning set 5250 May 13 20:58 16° \(\chi^{\chi}\) 27'46 desc. node 5251 Mar 23 05:59 8° \(\chi\) 10'55 max. Earth dist. 5250 May 17 21:08 24° \(\chi\) 27'38 1.34984 AU morning set 5251 Apr 06 06:25 28° \(\chi^{\chi}\) 34'34 superior conj 5250 May 22 20:20 4° \(\mathbb{U}\) 10'39 0° 42'09 max. Earth dist. 5251 Apr 27 01:29 0° \(\chi\) 28' 3669 AU minimum elong 5250 May 22 22:39 4° \(\mathbb{U}\) 16'30 0°41'42 sac. node 5251 May 06 07:41 17° \(\chi\) 25'27 10'11'48 evening rise 5250 May 30 13:15 20° \(\mathbb{U}\) 10' \(\sigma\) 20° \(\sigma\) 30' 13:15 20° \(\mathbb{U}\) 10' \(\sigma\) 20° \(\sigma\) 31' 32' \(\sigma\) 31' 30' \(\sigma\) 31' 30' \(\sigma\) 31' 31' 30' \(\sigma\) 31' 30' \(\sigma\) 31' 30' \(\sigma\) 31' 30' \(\sigma\) 31' 30' \(\sigma	morning max el	•		26°18'20	direct			
morning set max. Earth dist. 5250 May 13 20:58 16°\begin{align*} 24°\begin{align*} 807'38 1.34984 AU solid black in the second of		-						24050150
max. Earth dist. 5250 May 17 21:08 24°B0738 1.34984 AU 5251 Apr 08 18:01 0°Υ 0°Υ superior conj 5250 May 20 20:08 0°Π morning set 5251 Apr 26 06:25 28°Y34'43 0°B superior conj 5250 May 22 20:20 4°Π04'39 -0°42'09 max. Earth dist. 5251 Apr 29 21:25 5°B09'37 1.36869 AU minimum elong 5250 May 22 22:39 4°Π16'30 0°41'42 superior conj 5251 May 06 07:41 17°B25'27 -1°11'48 evening rise 5250 May 30 13:15 20°Π03'36 minimum elong 5251 May 06 11:40 17°B44'58 1°11'09 evening max el 5250 Jun 18 05:31 20°B31'24 20°40'10 asc. node 5251 May 12 14:41 0°Π evening set 5250 Jun 29 12:47 26°B04'00 evening rise 5251 May 14 16:43 4°Π12'05 evening set 5250 Jul 01 14:04 25°B3'47 evening max el 5251 May 31 18:34 1°S99'42 19°31'26 inferior conj 5250 Jul 10 20:36 21°B56'50 -2°30'18 retrograde 5251 Jun 10 08:03 6°B40'06 minimum elong 5250 Jul 10 13:42 22°B06'43 2°27'54 <t< td=""><td></td><td>•</td><td></td><td></td><td>•</td><td></td><td></td><td>24°58'50</td></t<>		•			•			24°58'50
Superior conj Superior co	•			1.24004.477	desc. node			
Superior conj S250 May 22 20:20 4° Π04'39 -0°42'09 max. Earth dist. S251 Apr 27 01:29 5°809'37 1.36869 AU minimum elong S250 May 22 22:39 4° Π16'30 0°41'42 sac. node S250 May 27 01:05 12° Π46'03 superior conj S251 May 06 07:41 17° 825'27 -1°11'48 evening rise S250 May 30 13:15 20° Π03'36 minimum elong S251 May 10 11:40 17° 844'58 1°11'09 S250 Jun 04 12:14 0° 9 S250 Jun 18 05:31 20° 931'24 20° 40'10 asc. node S251 May 12 14:41 0° 9 S251 May 13 22:08 2° Π38'36 retrograde S250 Jun 29 12:47 26° 904'00 evening rise S251 May 14 16:43 4° Π12'05 evening set S250 Jul 01 14:04 25° 95'34'7 evening max el S250 Jul 10 20:36 21° 956'50 -2° 30'18 retrograde S250 Jul 10 13:42 22° 906'43 22° 15'4 evening set S251 Jun 10 08:03 6° 940'06 minimum elong S250 Jul 11 21:32 21° 921'07 0.54856 AU desc. node S251 Jun 20 23:04 2° 920'24 -0° 31'17 direct S250 Aug 11 05:11 0° Ω S250 Au	max. Earth dist.	•		1.34984 AU		•		
superior conj minimum elong 5250 May 22 20:20 5250 May 22 22:39 4°Π04'39 -0°42'09 4°Π16'30 max. Earth dist. 5251 Apr 29 21:25 5°809'37 1.36869 AU asc. node 5250 May 27 01:05 12°Π46'03 superior conj 5251 May 06 07:41 17°825'27 -1°11'48 evening rise 5250 May 30 13:15 20°Π03'36 minimum elong 5251 May 06 11:40 17°844'58 1°11'09 evening max el 5250 Jun 18 05:31 20°31'24 20°40'10 asc. node 5251 May 12 14:41 0°Π 0°Π evening set 5250 Jul 1 14:04 25°953'47 evening rise 5251 May 29 21:48 0°Φ 0°Φ desc. node 5250 Jul 1 0 20:36 25°953'47 evening max el 5251 May 31 18:34 1°Ф59'42 19°31'26 inferior conj 5250 Jul 1 0 20:36 21°956'50 -2°30'18 retrograde 5251 Jun 10 08:03 6°Φ40'06 9°31'26 minimum elong 5250 Jul 1 0 13:42 22°906'43 2°27'54 evening set 5251 Jun 10 08:03 6°Φ29'28 6°Ф29'28 min. Earth dist. 5250 Jul 1 2 12:48 17°952'16 inferior		5250 May 20 20:08	υщ		morning set	•		
minimum elong 5250 May 22 22:39 4° II 16'30 0°41'42 asc. node 5250 May 27 01:05 12° II 46'03 superior conj 5251 May 06 07:41 17° 825'27 -1°11'48 evening rise 5250 May 30 13:15 20° II 03'36 minimum elong 5251 May 06 11:40 17° 844'58 1°11'09 5250 Jun 04 12:14 0° II evening max el 5250 Jun 18 05:31 20° II 31'24 20° 40'10 asc. node 5251 May 12 14:41 0° II evening set 5250 Jun 29 12:47 26° II 04'00 evening rise 5251 May 13 22:08 2° II 38'36 evening set 5250 Jul 01 14:04 25° II 04'00 evening max el 5251 May 14 16:43 4° II 12'05 evening set 5250 Jul 02 08:08 25° II 04'50 20° 30'18 retrograde 5251 Jun 10 08:03 6° II 04'00 evening max el 5251 Jun 10 08:03 6° II 04'00 evening rise 5251 Jun 10 08:03 6° II 04'00 evening max el 5251 Jun 10 08:03 6° II 04'00 evening rise 5250 Jul 10 13:42 22° II 06'43 2°27'54 evening set 5251 Jun 10 08:03 6° II 06'00 evening rise 5250 Jul 12 12:48 17° II 05'5216 evening set 5251 Jun 10 05:11 3° II 05'11 3° II 06'50 evening max el 5250 Jul 23 08:19 17° II 05'5216 inferior conj 5251 Jun 20 21:40 2° II 06'50 evening max el 5250 Jul 23 08:19 17° II 05'50'51 minimum elong 5251 Jun 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50'50 evening max el 5250 Jul 20 21:40 2° II 06'50'50'50 evening max el 5250 Jul 20 20 20 20 20 20 20 2		5050) (00 00 00	401104120	00.42100	To all the	•	_	1.26060 444
asc. node 5250 May 27 01:05 12° II 46'03 superior conj 5251 May 06 07:41 17° 825'27 -1°11'48 evening rise 5250 May 30 13:15 20° II 03'36 minimum elong 5251 May 06 11:40 17° 844'58 1°11'09 5250 Jun 04 12:14 0° 9 5251 Jun 18 05:31 20° 931'24 20° 40'10 asc. node 5251 May 12 14:41 0° II evening max el 5250 Jun 18 05:31 20° 931'24 20° 40'10 evening rise 5251 May 13 22:08 2° II 38'36 evening set 5250 Jun 29 12:47 26° 904'00 evening rise 5251 May 14 16:43 4° II 12'05 evening set 5250 Jul 01 14:04 25° 953'47 evening max el 5250 Jul 02 08:08 25° 945'07 evening max el 5251 May 31 18:34 1° 959'42 19° 31'26 inferior conj 5250 Jul 10 20:36 21° 956'50 -2° 30'18 retrograde 5251 Jun 10 08:03 6° 940'06 minimum elong 5250 Jul 10 13:42 22° 906'43 2° 27'54 evening set 5251 Jun 10 08:03 6° 940'06 minimum elong 5250 Jul 11 21:32 21° 921'07 0.54856 AU desc. node 5251 Jun 10 05:11 3° 930'00 morning rise 5250 Jul 23 08:19 17° 952'16 inferior conj 5251 Jun 20 23:04 2° 924'24 -0° 31'17 direct 5250 Aug 05 13:08 23° 942'37 23° 11'32 minimum elong 5251 Jun 20 10:47 0° 949'29 0.55705 AU 5250 Aug 11 05:11 0° Ω	1 2	•			max. Earth dist.	5251 Apr 29 21:25	5° 8 09'37	1.36869 AU
evening rise	•	•		0°41'42		505134 06 05 41	1.50 40.510.5	1011110
S250 Jun 04 12:14 0° © S251 May 12 14:41 0° ∏ evening max el retrograde 5250 Jun 18 05:31 20° © 04'00 evening rise 5251 May 13 22:08 2° ∏ 38'36 retrograde 5250 Jun 29 12:47 26° © 04'00 evening rise 5251 May 14 16:43 4° ∏ 12'05 evening set 5250 Jul 01 14:04 25° © 53'47 5251 May 29 21:48 0° © 6 evening rise 5250 Jul 10 20:36 21° © 56'50 -2° 30'18 retrograde 5251 Jun 10 08:03 6° © 40'06 minimum elong 5250 Jul 10 13:42 22° © 06'43 2° 27'54 evening set 5251 Jun 10 08:03 6° © 29'28 min. Earth dist. 5250 Jul 11 21:32 21° © 21'07 0.54856 AU desc. node 5251 Jun 10 05:11 3° © 30'00 morning rise 5250 Jul 23 08:19 17° © 52'16 inferior conj 5251 Jun 20 21:40 2° © 26'38 0° 30'46 morning max el 5250 Aug 11 05:11 0° Ω S250 Aug		•				•		
evening max el 5250 Jun 18 05:31 20°\$31'24 20°40'10 asc. node 5251 May 13 22:08 2°\$\$\sqrt{\text{I}}38'36\$ retrograde 5250 Jun 29 12:47 26°\$\sqrt{\text{0}}04'00\$ evening rise 5251 May 14 16:43 4°\$\sqrt{\text{I}}12'05\$ evening set 5250 Jul 01 14:04 25°\$\sqrt{\text{0}}53'47\$ evening max el 5251 May 29 21:48 0°\$\text{0}\$ desc. node 5250 Jul 10 20:36 25°\$\text{0}45'07\$ evening max el 5251 May 31 18:34 1°\$\text{0}59'42 19°31'26\$ inferior conj 5250 Jul 10 20:36 21°\$\text{0}56'50 -2°30'18\$ retrograde 5251 Jun 10 08:03 6°\$\text{0}6'\text{0}6'06' minimum elong 5250 Jul 10 13:42 22°\$\text{0}6'43 2°27'54\$ evening set 5251 Jun 12 06:28 6°\$\text{0}29'28\$ min. Earth dist. 5250 Jul 11 21:32 21°\$\text{0}21'07 0.54856 AU desc. node 5251 Jun 19 05:11 3°\$\text{0}30'00\$ morning rise 5250 Jul 19 12:48 17°\$\text{0}52'16\$ inferior conj 5251 Jun 20 23:04 2°\$\text{0}24'24 -0°31'17\$ direct 5250 Aug 05 13:08 23°\$\text{0}42'37 23°11'32\$ min. Earth dist. 5251 Jun 23 10:47 0°\$\text{0}9\$\text{0}9\$\text{0}949'29 0.55705 AU 5250 Aug 11 05:11 0°\$\text{0}\$	evening rise				minimum elong	· · · · · · · · · · · · · · · · · · ·		1°11'09
retrograde 5250 Jun 29 12:47 26°\$04'00 evening rise 5251 May 14 16:43 4°\$\$\tau\$12'05\$ evening set 5250 Jul 01 14:04 25°\$\sigma_53'47\$ evening max el 5251 May 29 21:48 0°\$\sigma_6\$ desc. node 5250 Jul 02 08:08 25°\$\sigma_545'07\$ evening max el 5251 May 31 18:34 1°\$\sigma_559'42\$ 19°31'26 inferior conj 5250 Jul 10 20:36 21°\$\sigma_56'50\$ -2°30'18 retrograde 5251 Jun 10 08:03 6°\$\sigma_6\$\				20040110				
evening set 5250 Jul 01 14:04 25°\$53'47 evening max el 5251 May 29 21:48 0°\$6 desc. node 5250 Jul 10 20:36 21°\$56'50 -2°30'18 retrograde 5251 Jun 10 08:03 6°\$40'06 minimum elong 5250 Jul 10 13:42 22°\$06'43 2°27'54 evening set 5251 Jun 12 06:28 6°\$29'28 min. Earth dist. 5250 Jul 11 21:32 21°\$52'107 0.54856 AU desc. node 5251 Jun 19 05:11 3°\$30'00 morning rise 5250 Jul 19 12:48 17°\$52'16 inferior conj 5251 Jun 20 23:04 2°\$24'24 -0°31'17 direct 5250 Jul 23 08:19 17°\$20'57 minimum elong 5251 Jun 20 21:40 2°\$26'38 0°30'46 morning max el 5250 Aug 11 05:11 0°\$\$\mathcal{Q}\$\tag{0}\$\t	•			20~40°10		•		
desc. node 5250 Jul 02 08:08 25°\$\times45'07 evening max el 5251 May 31 18:34 1°\$\times59'42 19°31'26 inferior conj 5250 Jul 10 20:36 21°\$\times56'50 -2°30'18 retrograde 5251 Jun 10 08:03 6°\$\times40'06 minimum elong 5250 Jul 10 13:42 22°\$\times06'43 2°27'54 evening set 5251 Jun 12 06:28 6°\$\times29'28 min. Earth dist. 5250 Jul 11 21:32 21°\$\times21'07 0.54856 AU desc. node 5251 Jun 19 05:11 3°\$\times30'00 morning rise 5250 Jul 19 12:48 17°\$\times52'16 inferior conj 5251 Jun 20 23:04 2°\$\times24'24 -0°31'17 direct 5250 Jul 23 08:19 17°\$\times20'57 minimum elong 5251 Jun 20 21:40 2°\$\times26'38 0°30'46 morning max el 5250 Aug 10 5:11 0°\$\tilde{\Omega} 10 0\$\tilde{\Omega}	•				evening rise	•		
inferior conj 5250 Jul 10 20:36 21°S56'50 -2°30'18 retrograde 5251 Jun 10 08:03 6°S40'06 minimum elong 5250 Jul 10 13:42 22°S06'43 2°27'54 evening set 5251 Jun 12 06:28 6°S29'28 min. Earth dist. 5250 Jul 11 21:32 21°S21'07 0.54856 AU desc. node 5251 Jun 19 05:11 3°S30'00 morning rise 5250 Jul 19 12:48 17°S52'16 inferior conj 5251 Jun 20 23:04 2°S24'24 -0°31'17 direct 5250 Jul 23 08:19 17°S20'57 minimum elong 5251 Jun 20 21:40 2°S26'38 0°30'46 morning max el 5250 Aug 10 05:11 0°Ω min. Earth dist. 5251 Jun 24 19:35 30°R II	•					· · · · · · · · · · · · · · · · · · ·		10021126
minimum elong 5250 Jul 10 13:42 22°©06'43 2°27'54 evening set 5251 Jun 12 06:28 6°©29'28 min. Earth dist. 5250 Jul 11 21:32 21°©21'07 0.54856 AU desc. node 5251 Jun 19 05:11 3°©30'00 morning rise 5250 Jul 19 12:48 17°©52'16 inferior conj 5251 Jun 20 23:04 2°©24'24 -0°31'17 direct 5250 Jul 23 08:19 17°©20'57 minimum elong 5251 Jun 20 21:40 2°©26'38 0°30'46 morning max el 5250 Aug 10 5:11 0°Ω min. Earth dist. 5251 Jun 24 19:35 30°R II				2020110	•			19~31′26
min. Earth dist. 5250 Jul 11 21:32 21°S21'07 0.54856 AU desc. node 5251 Jun 19 05:11 3°S30'00 morning rise 5250 Jul 19 12:48 17°S52'16 inferior conj 5251 Jun 20 23:04 2°S24'24 -0°31'17 direct 5250 Jul 23 08:19 17°S20'57 minimum elong 5251 Jun 20 21:40 2°S26'38 0°30'46 morning max el 5250 Aug 10 51:11 0°Ω min. Earth dist. 5251 Jun 23 10:47 0°S49'29 0.55705 AU 5250 Aug 11 05:11 0°Ω 5250 Aug 11 05:11 0°Ω	·				•			
morning rise 5250 Jul 19 12:48 17°\$52'16 inferior conj 5251 Jun 20 23:04 2°\$24'24 -0°31'17 direct 5250 Jul 23 08:19 17°\$20'57 minimum elong 5251 Jun 20 21:40 2°\$26'38 0°30'46 morning max el 5250 Aug 05 13:08 23°\$42'37 23°11'32 min. Earth dist. 5251 Jun 23 10:47 0°\$49'29 0.55705 AU 5250 Aug 11 05:11 0°\$	•				•			
direct 5250 Jul 23 08:19 17°\$20'57 minimum elong 5251 Jun 20 21:40 2°\$26'38 0°30'46 morning max el 5250 Aug 05 13:08 23°\$42'37 23°11'32 min. Earth dist. 5251 Jun 23 10:47 0°\$49'29 0.55705 AU 5250 Aug 11 05:11 0°\$Ω 5251 Jun 24 19:35 30°\$\$\Pi\$\$\Pi\$\$\$\Pi\$\$\$\Pi\$\$\$\$\$\Pi\$\$\$\$\$\$\$\$\$\$				0.54856 AU				0021::-
morning max el 5250 Aug 05 13:08 23°542'37 23°11'32 min. Earth dist. 5251 Jun 23 10:47 0°549'29 0.55705 AU 5250 Aug 11 05:11 0°Ω 5251 Jun 24 19:35 30°R II	•							
5250 Aug 11 05:11 0°Ω 5251 Jun 24 19:35 30°RII					•			
·	morning max el	•		23°11'32	mın. Earth dist.			0.55705 AU
asc. node 5250 Aug 23 00:22 18° 8 € 58'00 morning rise 5251 Jun 29 10:18 27° II 48'47	_	-						
	asc. node	5250 Aug 23 00:22	18° 8'258 '00		morning rise	5251 Jun 29 10:18	27° Щ 48'47	

page 82

direct	5251 Jul 04 02:02	27° I 100'09		direct	5252 Jun 14 09:32	7° Ⅱ 00′13	
	5251 Jul 13 01:39	0ංම		morning max el	5252 Jun 28 18:18	14° ∏ 32′16	26°24'56
morning max el	5251 Jul 18 02:36	4° © 02'55	24°54'57		5252 Jul 11 03:00	0	
	5251 Aug 05 11:53	$0 {\circ} \Omega$		asc. node	5252 Jul 26 18:27	28° © 18'17	
asc. node	5251 Aug 09 21:26	8° Ω 29'50		morning set	5252 Jul 27 14:48	0° Ω 05'14	
morning set	5251 Aug 13 04:08	15° Ω 17'41			5252 Jul 27 13:48	$0 ^{\circ} \Omega$	
	5251 Aug 19 22:35	0° m ∕					
				superior conj	5252 Aug 03 13:52	15° Ω 15'02	1°13'28
superior conj	5251 Aug 20 02:25	0° Mg 20'59	1°28'37	minimum elong	5252 Aug 03 11:33	15° Ω 02'18	1°13'06
minimum elong	5251 Aug 20 00:20	0°m/09'38	1°28'24	max. Earth dist.	5252 Aug 04 00:27	16° Ω 13′28	1.32063 AU
max. Earth dist.	5251 Aug 21 14:49	3° m 39'27	1.32633 AU	evening rise	5252 Aug 10 11:44	0° Mp 14'14	
evening rise	5251 Aug 27 07:05	15° Mp 41'10			5252 Aug 10 09:02	0° m	
	5251 Sep 03 16:05	0° 亞		1 1	5252 Aug 26 18:24	0∘ ⊽	
desc. node	5251 Sep 15 04:26	18° £ 57'04		desc. node	5252 Sep 01 01:28	7° £ 38'43	27001120
	5251 Sep 23 12:02	0°M	27927122	evening max el	5252 Sep 10 08:23	18° £ 22'05	27°01'20
evening max el	5251 Sep 29 03:00	6°ML00'41 13°ML15'47	27°26'23	retrograde	5252 Sep 24 05:28	25° £ 33'19 23° £ 22'53	
retrograde	5251 Oct 12 20:33 5251 Oct 20 00:44	10°ML45'02		evening set min. Earth dist.	5252 Oct 01 06:11 5252 Oct 04 22:41	23 ≗ 22 33 20° £ 42'46	0.60894 AU
evening set min. Earth dist.	5251 Oct 20 00.44 5251 Oct 23 16:16	7°ML43'45	0.62870 AU	inferior conj	5252 Oct 04 22:41 5252 Oct 08 02:33	20 ≗ 42 40 18° ≗ 01'32	
inferior conj	5251 Oct 26 11:16	5°M01'55		minimum elong	5252 Oct 08 02:53	18 = 01 32 17° £ 48'00	
minimum elong	5251 Oct 26 16:53	4°ML48'19		morning rise	5252 Oct 15 13:35	17 = 48 00 13° £ 11'50	4 14 00
morning rise	5251 Nov 02 10:41	29° £ 51′20	3 13 10	direct	5252 Oct 17 13:08	13° ⊆ 50'31	
morning risc	5251 Nov 02 10:41 5251 Nov 02 01:45	29 = 31 20 30° RΩ		asc. node	5252 Oct 17 21:08 5252 Oct 22 17:43	12 = 30 31 14° £ 28'54	
direct	5251 Nov 02 01:43 5251 Nov 04 19:48	29° £ 25'06		morning max el	5252 Oct 25 17:43 5252 Oct 25 02:22	16° £ 26′00	18°00'37
asc. node	5251 Nov 04 17:46 5251 Nov 05 20:41	29° £ 30'12		morning max er	5252 Nov 03 14:44	0°M	10 0037
use. Houe	5251 Nov 07 12:53	0°M		morning set	5252 Nov 09 20:04	11° M 17'07	
morning max el	5251 Nov 11 12:20	2°M51'21	17°49'29	morning sev	22021101 07 20.01	11 110/17 07	
morning set	5251 Nov 27 15:28	27°ML50'17	1, 1, 2,	superior conj	5252 Nov 19 21:19	29°M34'24	0°55'57
	5251 Nov 28 20:54	0° ∡¹		minimum elong	5252 Nov 20 01:10		0°55'27
					5252 Nov 20 03:07	0° ∡ 7	
superior conj	5251 Dec 09 06:48	17° ∡ 756'35	0°20'12	max. Earth dist.	5252 Nov 27 12:15	12° ∡ ³37'44	1.42129 AU
minimum elong	5251 Dec 09 08:47	18° ∡ *04'51	0°19'57	desc. node	5252 Nov 28 00:43	13° ₹ 29'23	
desc. node	5251 Dec 12 03:42	22° ∡ ¹42'30		evening rise	5252 Dec 03 06:36	22° ₹ '00'30	
max. Earth dist.	5251 Dec 16 00:02	28° ₹ 58'16	1.43799 AU		5252 Dec 08 09:02	ರ°0	
	5251 Dec 16 15:24	ರ∘ರ			5252 Dec 29 09:35	0° ≈	
evening rise	5251 Dec 24 09:15	12° る 11'37		evening max el	5253 Jan 05 05:50	7° ≈ 55'19	22°27'44
	5252 Jan 05 04:20	0° ≈		retrograde	5253 Jan 14 23:37	13° ≈ 42'51	
evening max el	5252 Jan 23 11:55	24° ≈ 19'22	21°11'25	asc. node	5253 Jan 18 16:58	12° ≈ 30′21	
retrograde	5252 Feb 01 03:17	29° ≈ 26′21		evening set	5253 Jan 19 14:43	11° ≈ 49'49	
asc. node	5252 Feb 01 19:56	29° ≈ 23'46		inferior conj	5253 Jan 24 23:16	5° ≈ 27'41	1°58'38
evening set	5252 Feb 05 07:12	27° ≈ 48'54		minimum elong	5253 Jan 24 21:02	5° ≈ 35'27	1°57'53
inferior conj	5252 Feb 10 15:16	21° ≈ 34'53		min. Earth dist.	5253 Jan 24 19:34	5° ≈ 40'32	0.68126 AU
minimum elong	5252 Feb 10 12:52	21° ≈ 43'12	2°35'52		5253 Jan 29 08:45	30°R₹	
min. Earth dist.	5252 Feb 10 23:18	21° ≈ 07'05	0.67890 AU	morning rise	5253 Jan 30 03:13	29° る 18'01	
morning rise	5252 Feb 15 18:22	15° ≈ 22'06		direct	5253 Feb 03 18:34	27° る 22'16	
direct	5252 Feb 21 00:23	13°≈04'02			5253 Feb 09 21:50	0° ≈	
morning max el	5252 Mar 02 12:36	19°≈19'04	23°30'21	morning max el	5253 Feb 13 00:33	2°≈47'34	22°02'24
desc. node	5252 Mar 09 03:00	26°≈52'30		desc. node	5253 Feb 23 24:00	16°≈14'09	
	5252 Mar 11 13:23	0° ∀ 0° Υ			5253 Mar 05 14:04	0°) (
	5252 Mar 31 21:58	9° Υ 33'21		morning set	5253 Mar 17 23:25	19° 升 11'56 28° 升 28'35	1 41102 ATT
morning set	5252 Apr 06 16:55		1.39025 AU	max. Earth dist.	5253 Mar 23 15:01	28°π28'33 0°Υ	1.41193 AU
max. Earth dist.	5252 Apr 10 17:04	10 12/18	1.39023 AU		5253 Mar 24 12:47	U I	
superior conj	5252 Apr 18 05:24	0° 8 03'52	1038153	superior conj	5253 Mar 31 08:47	11° Y '48'31	1°50'30
minimum elong	5252 Apr 18 10:24	0° 8 27'18		minimum elong	5253 Mar 31 13:05	12° Υ 07'36	
minimum clong	5252 Apr 18 10:24 5252 Apr 18 04:34	0°8	1 30 17	minimum clong	5253 Apr 10 08:04	0° 8	1 37 23
evening rise	5252 Apr 18 04:34 5252 Apr 27 12:28	17° 8 53'53		evening rise	5253 Apr 10 08:04 5253 Apr 10 20:59	1° 8 00'03	
asc. node	5252 Apr 29 19:11	22° 8 17'35		asc. node	5253 Apr 16 16:13	11° 8 37'34	
	5252 May 03 22:37	0°II		evening max el	5253 Apr 27 02:20	26° 8 50'46	18°14'58
evening max el	5252 May 13 18:37	14° Ⅱ 08'41	18°43'01		5253 May 01 20:03	0°II	
retrograde	5252 May 21 20:36	18° Ⅱ 07'22	- + -	retrograde	5253 May 04 04:02	0° П 23'21	
evening set	5252 May 24 00:07	17° I I51'33		evening set	5253 May 06 14:27	29° 8 58'58	
inferior conj	5252 May 31 20:56	13° Ⅱ 28'48	1°12'23	Ç	5253 May 06 13:11	30° ₹ 8	
minimum elong	5252 May 31 23:29	13° Ⅱ 24′02	1°11'29	inferior conj	5253 May 13 16:24	25° 8 16'01	2°26'04
min. Earth dist.	5252 Jun 04 03:38	11° II 03'19	0.57332 AU	minimum elong	5253 May 13 19:52	25° 8 08'28	2°25'09
desc. node	5252 Jun 05 02:14	10° Ⅱ 24'16		min. Earth dist.	5253 May 17 02:15	22° 8 19'09	0.59416 AU
morning rise	5252 Jun 08 19:33	8° Ⅱ 16'56		morning rise	5253 May 20 22:26	19° 8 34'56	

desc. node	5253 May 22 23:15	18° 8 35'17			5254 May 05 22:20	30° ₹Ƴ	
direct	5253 May 27 06:47	17° 8 43'46		direct	5254 May 09 15:10	29° Ƴ 17'51	
morning max el	5253 Jun 10 15:57	25° 8 34'22	27°26'51	desc. node	5254 May 09 20:16	29° Ƴ 17'59	
	5253 Jun 14 18:32	Π $^{\circ}0$			5254 May 13 12:00	0°8	
	5253 Jul 04 11:55	0 \circ \odot		morning max el	5254 May 23 19:40	7° 8 17'17	27°52'29
morning set	5253 Jul 11 22:43	14° © 43'00			5254 Jun 10 02:10	$\Pi^{\circ}0$	
asc. node	5253 Jul 13 15:28	18° © 18'03		morning set	5254 Jun 26 01:56	29° Ⅱ 03'46	
max. Earth dist.	5253 Jul 18 11:44	28° © 50'45	1.31915 AU		5254 Jun 26 12:53	0 \circ \odot	
				asc. node	5254 Jun 30 12:29	8° © 23'37	
superior conj	5253 Jul 19 01:36	0° Ω 07'17	0°53'56	max. Earth dist.	5254 Jul 01 20:45	11° © 17'59	1.32193 AU
minimum elong	5253 Jul 18 23:32	29° © 55'54	0°53'32				
	5253 Jul 19 00:16	$0^{\circ}\Omega$		superior conj	5254 Jul 03 11:49	14°\$50'56	0°30'34
evening rise	5253 Jul 25 20:47	14° Ω 58'16		minimum elong	5254 Jul 03 10:28	14°5543'33	0°30'16
	5253 Aug 02 08:36	0° m		evening rise	5254 Jul 10 08:05	29°5945'40	
desc. node	5253 Aug 18 22:29	25° m/ 19'15		C	5254 Jul 10 10:46	$0^{\circ}\Omega$	
	5253 Aug 23 08:35	0∘ ⊽			5254 Jul 26 23:58	0° m/	
evening max el	5253 Aug 23 06:35	29° m 55'15	26°03'19	evening max el	5254 Aug 04 21:43	10° Mp 42'40	24°38'59
retrograde	5253 Sep 06 05:45	7° ♀ 02'46		desc. node	5254 Aug 05 19:31	11° m)33'31	
evening set	5253 Sep 12 14:59	5° £ 24'31		retrograde	5254 Aug 18 18:57	17° mp 42'45	
min. Earth dist.	5253 Sep 16 19:18		0.58819 AU	evening set	5254 Aug 23 23:21	16° m 42'27	
inferior conj	5253 Sep 20 00:45	0° ჲ 26'08	-5°00'45	min. Earth dist.	5254 Aug 29 09:00	13° m 53'37	0.56899 AU
minimum elong	5253 Sep 20 05:29	0° £ 17′20		inferior conj	5254 Sep 01 03:09	12° Mp 06'58	
mmmum viong	5253 Sep 20 14:52	30°R MD	2 00 00	minimum elong	5254 Sep 01 02:54	12° Mp 07'22	
morning rise	5253 Sep 27 22:16	25° m 59'17		morning rise	5254 Sep 09 08:51	8° mp 01'38	0 1020
direct	5253 Sep 27 22:10 5253 Sep 30 07:39	25° m/40'15		direct	5254 Sep 11 23:45	7° m) 42'37	
morning max el	5253 Oct 08 10:19	-	18°31'50	morning max el	5254 Sep 21 08:46	12° Mp 06'44	19°24'34
morning max ci	5253 Oct 08 10:19	0° ರ	10 31 30	asc. node	5254 Sep 26 11:44	18° Mp 10'00	17 24 34
asc. node	5253 Oct 00 20:37 5253 Oct 09 14:43	o° - 0° - 47'19		ase. Hode	5254 Oct 03 14:27	0° ت	
morning set	5253 Oct 05 14:43 5253 Oct 24 12:53	25° ⊆ 18'09		morning set	5254 Oct 08 14:06	9° ჲ 42'41	
morning set	5253 Oct 24 12:33 5253 Oct 26 23:12	0°M		morning set	3234 001 00 14.00) _ 1 2 1 1	
	3233 OCT 20 23.12	O IIG		superior conj	5254 Oct 16 15:19	25° ≏ 46'48	1°36'23
superior conj	5253 Nov 02 09:57	12°M16'19	1°21'09	minimum elong	5254 Oct 16 17:27	25° Ω 57'14	
minimum elong	5253 Nov 02 03:37 5253 Nov 02 13:27	12°M32'37	1°20'47	minimum ciong	5254 Oct 18 19:35	0°M	1 30 13
max. Earth dist.	5253 Nov 02 19:27 5253 Nov 09 19:05	25°M33'35	1.40113 AU	max. Earth dist.	5254 Oct 22 23:44	7° M 50'05	1.38003 AU
max. Earth dist.	5253 Nov 12 09:10	23 116 33 33	1.40113 AU	evening rise	5254 Oct 26 17:54	14°M35'17	1.38003 AU
evening rise	5253 Nov 12 00:10 5253 Nov 14 00:50	2° × ⁷ 46'46		desc. node	5254 Nov 01 18:46	24°M51'25	
desc. node	5253 Nov 14 00:30 5253 Nov 14 21:44	4°×713'39		desc. node	5254 Nov 04 23:09	0° x ⁷	
desc. Hode	5253 Nov 14 21:44 5253 Dec 01 15:59	0°る			5254 Nov 26 11:02	0° ਨ ਹੈ`×	
evening max el	5253 Dec 01 13:39 5253 Dec 18 20:07	21° පි 34'31	23047!45	evening max el	5254 Nov 20 11:02 5254 Dec 01 08:58	⁰ ට 5° ට 18'01	25°04'54
retrograde	5253 Dec 18 20:07 5253 Dec 29 16:52	27° る 58'55	23 47 43	retrograde	5254 Dec 01 08:58 5254 Dec 13 05:54	12°る10'27	23 04 34
evening set	5254 Jan 03 20:30	25° ප් 50'31		evening set	5254 Dec 18 03:54 5254 Dec 18 22:58	9° ප 47'54	
asc. node	5254 Jan 05 13:59	24°る08'45		asc. node	5254 Dec 18 22:38 5254 Dec 23 11:00	4° ਰ 46'06	
min. Earth dist.	5254 Jan 08 16:14	20°る14'29	0.67986 AU	min. Earth dist.	5254 Dec 23 11:00 5254 Dec 23 11:00	4°る46'03	0.67488 AU
inferior conj	5254 Jan 09 06:58	19° る 24'18	1°13'23	inferior conj	5254 Dec 24 12:36	3° පි 22'16	0°21'40
minimum elong	5254 Jan 09 05:21		1°12'46	minimum elong	5254 Dec 24 12:04	3° ප 22'10	0°21'28
morning rise	5254 Jan 14 14:12	13° る 19'28	1 12 40	minimum ciong	5254 Dec 27 05:41	30°R.✓	0 21 20
direct	5254 Jan 18 15:41	13° 3 46'21		morning rise	5254 Dec 27 03:41 5254 Dec 30 01:23	27° ₹ 124'22	
morning max el	5254 Jan 26 18:48	16° る 26'29	20°42'35	direct	5255 Jan 02 14:23	26°×12'06	
morning max ci	5254 Feb 06 15:06	0°≈	20 42 33	uncer	5255 Jan 09 14:04	0°පි	
desc. node	5254 Feb 10 21:00	6°≈04'56		morning max el	5255 Jan 09 21:00	0°る17'02	10°35'//0
morning set	5254 Feb 25 04:04	27°≈40'31		greatest brilliancy	5255 Jan 22 21:57	17° る 29'30	
morning set	5254 Feb 26 15:48	0° ∀		desc. node	5255 Jan 28 18:02	26° る 17'06	0.7111
max. Earth dist.	5254 Mar 05 19:40		1.43104 AU	dese. Hode	5255 Jan 31 04:23	0°≈	
max. Lartii dist.	3234 With 03 17.40	11 /(2551	1.43104710	morning set	5255 Feb 04 00:48	5°≈55'22	
superior conj	5254 Mar 12 12:58	22°) €28'33	-2°09'01	max. Earth dist.	5255 Feb 16 07:57		1.44513 AU
minimum elong	5254 Mar 12 12:30	22° H 30'47		max. Larm dist.	5255 Feb 19 09:18	0° ∀	1.44313 AO
minimum clong	5254 Mar 16 23:10	0° Υ	2 0701		3233100 17 07.16	0 /	
evening rise	5254 Mar 24 14:02	13° Υ 20'23		superior conj	5255 Feb 20 15:44	2°) 02'00	2001/24
evening 1150	5254 Mai 24 14.02 5254 Apr 03 05:24	0° 8		minimum elong	5255 Feb 20 09:58	1°)(38'52	
asc. node	5254 Apr 03 13:15	0° 8 31'24		evening rise	5255 Mar 06 11:15	24°)(47'30	2 01 00
	-	9° 8 55'53	18°06'32	evening rise		24 χ 4730	
evening max el	5254 Apr 10 14:14 5254 Apr 17 02:58	13° 8 17'58	10 00 32	asa nada	5255 Mar 09 13:24 5255 Mar 21 10:17	18° Υ 51'21	
retrograde	-			asc. node		18° \ \gamma 51'21 \\ 23^{\circ} \gamma 16'20	10016150
evening set	5254 Apr 19 20:04	12° 8 42'43	2010/04	evening max el	5255 Mar 25 03:11	26° Y 42'13	18°16'59
inferior conj	5254 Apr 26 06:45		3°10'04	retrograde	5255 Mar 31 13:08	26°γ'42'13 25° Υ 54'46	
minimum elong	5254 Apr 26 09:12	7° 8 33'31	3°09'40	evening set	5255 Apr 03 12:34		2020154
min. Earth dist.	5254 Apr 29 08:25		0.61625 AU	inferior conj	5255 Apr 09 11:57	20°Y32'36	
morning rise	5254 May 02 20:27	1° 8 40'18		minimum elong	5255 Apr 09 12:48	20° Ƴ 30'14	3 2931

: E 4 E 4	5055 4 11 22 27	1700045127	0.62677.411		505 (M 22 02 27	200040157	202111.5
min. Earth dist.	5255 Apr 11 23:37	17° Y 45'37	0.63677 AU	minimum elong	5256 Mar 23 03:27	3° Υ 48'57	
morning rise	5255 Apr 15 12:02	14° Y 23′29		min. Earth dist.	5256 Mar 25 00:05	1° Y 31'49	0.65392 AU
direct	5255 Apr 22 08:14	11° Y 40'40			5256 Mar 26 07:31	30° ₹	
desc. node	5255 Apr 26 17:17	12° Ƴ 38′22		morning rise	5256 Mar 28 18:00	27° ∺ 33'19	
morning max el	5255 May 06 03:49	19° Ƴ 39'28	27°40'40	direct	5256 Apr 04 08:22	24°) (43′38	
	5255 May 14 23:21	9° 8		desc. node	5256 Apr 12 14:19	28°) €06'41	
	5255 Jun 03 01:52	Π $^{\circ}0$			5256 Apr 14 22:00	0° Y	
morning set	5255 Jun 09 22:07	13° Ⅱ 00'37		morning max el	5256 Apr 17 13:55	2° Ƴ 31'17	26°55'57
max. Earth dist.	5255 Jun 14 23:46	23° Ⅲ 24′06	1.32916 AU		5256 May 08 05:13	$B_{\circ 0}$	
asc. node	5255 Jun 17 09:31	28° Ⅲ 30′57		morning set	5256 May 23 08:15	26° 8 24'32	
				C	5256 May 25 04:43	$\Pi^{\circ}0$	
superior conj	5255 Jun 17 18:44	29° Ⅱ 20′20	0°04'00	max. Earth dist.	5256 May 27 17:19	5° Ⅱ 01'07	1.34099 AU
minimum elong	5255 Jun 17 18:32	29° Ⅱ 19'17	0°03'56				
behind sun begin	5255 Jun 17 13:20	28° ∏ 51'24	0 05 00	superior conj	5256 May 31 20:12	13° Ⅱ 28'58	-0°24'56
behind sun end	5255 Jun 17 13:20 5255 Jun 17 23:44	29° I I47'12		minimum elong	5256 May 31 21:32	13° II 35'56	
ociniia sun cha	5255 Jun 18 02:06	0°99		asc. node	5256 Jun 03 06:35	18° II 35'56	0 2440
evening rise	5255 Jun 24 19:49	14°930'35		evening rise	5256 Jun 08 06:05	29° Ⅱ 06'42	
	5255 Jul 02 14:08	0°N			5256 Jun 08 16:18	0° ©	
evening max el	5255 Jul 17 10:22	21° Ω 04'45	23°01'52		5256 Jun 26 16:06	$0^{\circ}\Omega$	
desc. node	5255 Jul 23 16:33	25° Ω 49'49		evening max el	5256 Jun 28 04:33	1° Ω 34'28	21°27'57
retrograde	5255 Jul 30 19:17	27° Ω 45′20		desc. node	5256 Jul 09 13:34	7° Ω 35′08	
evening set	5255 Aug 03 11:20	27° Ω 15'56		retrograde	5256 Jul 10 09:51	7° Ω 36′50	
min. Earth dist.	5255 Aug 10 19:12	23° Ω 58'14	0.55461 AU	evening set	5256 Jul 12 20:20	7° Ω 23'14	
inferior conj	5255 Aug 12 10:09	23° Ω 01'53	-4°51'47	inferior conj	5256 Jul 22 04:38	3° Ω 23′28	-3°33'32
minimum elong	5255 Aug 12 03:31	23° Ω 11'31	4°50'44	minimum elong	5256 Jul 21 19:54	3° Ω 35'41	3°30'57
morning rise	5255 Aug 20 21:54	19° Ω 10'45		min. Earth dist.	5256 Jul 22 05:14	3° Ω 22'39	0.54801 AU
direct	5255 Aug 23 21:24	18° Ω 49'46			5256 Jul 29 04:08	30° №	
morning max el	5255 Sep 03 19:20	23° £ 54′27	20°39'08	morning rise	5256 Jul 30 20:28	29° © 30'14	
morning man vi	5255 Sep 09 03:05	0° mp	20 37 00	direct	5256 Aug 03 07:06	29°504'34	
asc. node	5255 Sep 13 08:46	6° Mp 22'57		direct	5256 Aug 08 05:19	0°Ω	
	5255 Sep 22 20:52	24° Mp 22'50		morning max el	5256 Aug 15 18:21	4° Ω 57'33	22°12'34
morning set	*	-		•	-		22 12 34
	5255 Sep 25 14:02	0∘ ⊽		asc. node	5256 Aug 30 05:50	25° Ω 14'19	
	5055 0 00 00 11	00.0.50100	10.4015.6		5256 Sep 01 18:11	0° m/y	
superior conj	5255 Sep 30 08:44		1°42'56	morning set	5256 Sep 06 07:02	9° ™ 12'39	
minimum elong	5255 Sep 30 09:18	9° ≙ 55'27	1°42'56				
max. Earth dist.	5255 Oct 05 07:33	19° ≏ 45'27	1.36038 AU	superior conj	5256 Sep 13 10:35	24° Mp 23'09	1°42'09
evening rise	5255 Oct 09 06:58	27° ≏ 18'34		minimum elong	5256 Sep 13 09:48	24° Mp 19'03	1°42'08
	5255 Oct 10 18:08	0°M			5256 Sep 16 03:01	0∘ ⊽	
desc. node	5255 Oct 19 15:48	15° M 17'50		max. Earth dist.	5256 Sep 16 22:49	1° ≏ 41'55	1.34390 AU
	5255 Oct 29 07:59	0° ∡ ¹		evening rise	5256 Sep 21 11:53	10° ≏ 46'23	
evening max el	5255 Nov 13 21:44	19° ∡ 01'40	26°11'47		5256 Oct 02 04:05	0°M₊	
retrograde	5255 Nov 26 13:52	26° ∡ 11′24		desc. node	5256 Oct 05 12:50	5° ™ 27'20	
evening set	5255 Dec 02 20:21	23° ∡ ³37'32			5256 Oct 23 20:08	0° ⊼ ¹	
min. Earth dist.	5255 Dec 07 01:24	19° √ 10'57	0.66640 AU	evening max el	5256 Oct 26 10:30	2° х 37'49	27°00'58
inferior conj	5255 Dec 08 14:17	17° √ 17'21		retrograde	5256 Nov 08 16:19	9° ₹ 55'22	_,
minimum elong	5255 Dec 08 15:15	17° 🖈 14'23	0°35'10	evening set	5256 Nov 15 10:35	7°×715'30	
asc. node	5255 Dec 10 08:02	15° 🖈 11'49	0 33 10	min. Earth dist.	5256 Nov 19 09:11	3° ∡ 1330	0.65442 AU
morning rise	5255 Dec 14 10:41				5256 Nov 21 09:54	1° ₹ 05'44	
Č		11° 🗷 28'58		inferior conj			
direct	5255 Dec 17 12:59	10° ∡ 34'27	1004495	minimum elong	5256 Nov 21 12:41	0° ∡ 757'49	1-35/50
morning max el	5255 Dec 24 06:27	14° ₹ 15'47	18°44'25		5256 Nov 22 09:13	30°RM₁	
	5256 Jan 04 22:18	0°る		asc. node	5256 Nov 26 05:04	26°M22'23	
morning set	5256 Jan 14 14:25	15° る 07'12		morning rise	5256 Nov 27 15:47	25°M29'43	
desc. node	5256 Jan 15 15:03	16° る 44'05		direct	5256 Nov 30 09:24	24°M49'14	
	5256 Jan 24 01:49	0° ≈		morning max el	5256 Dec 06 21:04	28° ™ 17'41	18°09'28
max. Earth dist.	5256 Jan 30 01:41	9° ≈ 23'52	1.45251 AU		5256 Dec 08 10:58	0° ∡ ¹	
				morning set	5256 Dec 25 09:08	25° ∡ ¹47'15	
superior conj	5256 Jan 30 22:43	10° ≈ 46′22	-1°33'58		5256 Dec 27 23:03	o°B	
minimum elong	5256 Jan 30 13:17	10°≈09'20	1°33'02	desc. node	5257 Jan 01 12:05	7° る 21'35	
	5256 Feb 12 02:18	0° ∀	-				
evening rise	5256 Feb 15 09:27	5° ₩ 17'07		superior conj	5257 Jan 09 03:18	19° る 31'32	-0°51'22
greatest brilliancy	5256 Feb 22 13:13	16°) 47'06	-0.9m	minimum elong	5257 Jan 09 03:18 5257 Jan 08 20:59	19° ろ 06'34	
greatest oriniancy		10 χ 4/00	·0.7III	•			
1	5256 Mar 02 04:02			max. Earth dist.	5257 Jan 11 21:17	23°₹51'14	1.45246 AU
asc. node	5256 Mar 07 07:20	6°Υ26'28	1004532		5257 Jan 15 19:28	0° ≈	
evening max el	5256 Mar 07 14:24	6° Ƴ 44'41	18°45'32	evening rise	5257 Jan 25 09:50	14° ≈ 56'38	
retrograde		10000			5055 D	001/	
•	5256 Mar 14 06:26	10° Y 27′05			5257 Feb 04 03:34	0° ∀	
evening set	5256 Mar 17 12:24	9° Ƴ 26'39		greatest brilliancy	5257 Feb 06 21:44	4°) 11′12	
•			3°31'17	greatest brilliancy evening max el			

1	5257 F 1 22 04 22	220 1/0 411 1		1	5250 F 1 00 01 24	00 1/2015	
asc. node	5257 Feb 22 04:23	23°) (04'11		asc. node	5258 Feb 09 01:24	8° ¥ 29'56	
retrograde	5257 Feb 26 03:35	24°) 26'27		retrograde	5258 Feb 10 01:54	8° ¥ 35'31 7° ¥ 07'00	
evening set	5257 Mar 01 16:56	23°) 12′24	2010122	evening set	5258 Feb 13 23:58		2054127
inferior conj	5257 Mar 07 03:51	17°) 17'18		inferior conj	5258 Feb 19 08:31	0° ¥ 59'08	2°54'37
minimum elong	5257 Mar 07 02:08	17° ¥ 22'55 15° ¥ 42'10	3°18'17	minimum elong	5258 Feb 19 06:13	1° ¥ 06'57	2°54'05
min. Earth dist.	5257 Mar 08 08:49		0.66693 AU	min. Earth dist.	5258 Feb 19 23:52	0°) €06'38	0.67567 AU
morning rise	5257 Mar 12 11:05	11°) (02'18			5258 Feb 20 01:49	30°R≈	
direct	5257 Mar 18 14:47	8° ¥ 17'59		morning rise	5258 Feb 24 12:16	24°≈44'54	
desc. node	5257 Mar 30 11:21	15°) € 10'05	25046120	direct	5258 Mar 02 02:34	22°≈15'16	24021145
morning max el	5257 Mar 30 23:41	15°) 40′56 0° Υ	25°46'20	morning max el	5258 Mar 13 08:22	28°≈58'41	24°21'45
	5257 Apr 11 18:52			1 1	5258 Mar 14 08:05	0°) {	
. ,	5257 May 01 02:08	0° 8		desc. node	5258 Mar 17 08:23	3°) €21'47	
morning set	5257 May 06 04:15	9° 8 04'08	1.05500 111		5258 Apr 05 13:44	0°Υ 200 0 04.4152	
max. Earth dist.	5257 May 09 23:27	16° 8 10'58	1.35739 AU	morning set	5258 Apr 18 04:47	20° Y 44'53	
	505534 15 10 05	2701 100120	005451	max. Earth dist.	5258 Apr 21 20:35	27° Y 14′25	1.37757 AU
superior conj	5257 May 15 13:37	27° 8 09'38			5258 Apr 23 09:00	0°8	
minimum elong	5257 May 15 16:40	27° 8 24'59	0°54'18				
	5257 May 16 23:19	Π $^{\circ}0$		superior conj	5258 Apr 28 19:43	10° 8 14'06	
asc. node	5257 May 21 03:39	8° ∏ 34'20		minimum elong	5258 Apr 29 00:16	10° 8 35'59	1°23'08
evening rise	5257 May 23 12:46	13° Ⅱ 27′28		evening rise	5258 May 07 13:22	27° 8 25'57	
	5257 Jun 01 04:13	0 \circ \odot		asc. node	5258 May 08 00:42	28° 8 22'01	
evening max el	5257 Jun 10 10:18	12° © 38'24	20°08'28		5258 May 08 20:35	Π °0	
retrograde	5257 Jun 21 00:02	17° © 48'55		evening max el	5258 May 24 04:28	24° Ⅱ 25'32	19°08'23
evening set	5257 Jun 22 22:16	17° © 39'20		retrograde	5258 Jun 02 01:48	28° ∏ 46′21	
desc. node	5257 Jun 26 10:36	16° © 37'14		evening set	5258 Jun 04 01:44	28° Ⅱ 34'06	
inferior conj	5257 Jul 02 00:09	13° © 40'20	-1°39'42	inferior conj	5258 Jun 12 10:13	24° Ⅲ 22'37	0°15'47
minimum elong	5257 Jul 01 19:29	13° © 47'16	1°37'59	minimum elong	5258 Jun 12 10:52	24° Ⅲ 21'31	0°15'31
min. Earth dist.	5257 Jul 03 17:18	12° © 39'06	0.55100 AU	transit middle	5258 Jun 12 10:52	24° Ⅲ 21'31	0°15'31
morning rise	5257 Jul 10 15:12	9° © 23'54		transit begin	5258 Jun 12 09:55	24° Ⅱ 23'09	
direct	5257 Jul 14 18:20	8°\$346'47		transit end	5258 Jun 12 11:49	24° Ⅲ 19'53	
morning max el	5257 Jul 28 09:42	15° © 27'33	23°56'11	desc. node	5258 Jun 13 07:37	23° ∏ 46′06	
•	5257 Aug 08 21:52	$0^{\circ}\Omega$		min. Earth dist.	5258 Jun 15 08:18	22° ∏ 24'11	0.56316 AU
asc. node	5257 Aug 17 02:53	14° Ω 33'40		morning rise	5258 Jun 20 16:49	19° Ⅲ 31′02	
morning set	5257 Aug 21 18:41	24° Ω 05'31		direct	5258 Jun 25 18:08	18° Ⅲ 31'27	
C	5257 Aug 24 12:50	0° m⊅		morning max el	5258 Jul 09 23:32	25° ∏ 49'00	25°35'41
	C	r		S	5258 Jul 13 22:12	0°ಅ	
superior conj	5257 Aug 28 17:54	9° m 08'37	1°35'09		5258 Aug 01 21:41	$0^{\circ}\Omega$	
minimum elong	5257 Aug 28 16:10	8° m 59'16	1°35'01	asc. node	5258 Aug 03 23:57	4° Ω 13'27	
max. Earth dist.	5257 Aug 30 22:34	13° m 52'00	1.33148 AU	morning set	5258 Aug 06 06:09	8°Ω56'25	
evening rise	5257 Sep 05 04:32	24° Mp 46'56	1.55110710	morning sec	3230 Hag 00 00.0)	0 000025	
evening rise	5257 Sep 07 19:50	0∘ ʊ		superior conj	5258 Aug 13 04:24	24° Ω 01'33	1°22'47
desc. node	5257 Sep 22 09:52	25° £ 11'31		minimum elong	5258 Aug 13 02:11	23° Ω 49'18	1°22'29
dese. Hode	5257 Sep 25 16:26	0°M		max. Earth dist.	5258 Aug 14 05:23	26°Ω18'38	1.32339 AU
evening max el	5257 Oct 08 22:07	15°M54'56	27°25'37	max. Lartii dist.	5258 Aug 15 21:58	0° my	1.52557 110
retrograde	5257 Oct 08 22:07 5257 Oct 22 12:46	23°M12'59	21 23 31	evening rise	5258 Aug 20 05:37	9° m) 10'48	
evening set	5257 Oct 22 12:40 5257 Oct 29 14:59	20°M35'39		evening rise	5258 Aug 31 04:14	0° ⊽	
min. Earth dist.	5257 Nov 02 08:16	17°M17'43	0.63896 AU	desc. node	5258 Sep 09 06:53	0 – 14° ≏ 19'56	
inferior conj	5257 Nov 04 20:56	14°M41'14		evening max el	5258 Sep 21 06:41	28° ≏ 40'51	27°19'51
minimum elong	5257 Nov 05 01:37	14°M29'08		evening max er	5258 Sep 22 17:31	0°M	27 1731
morning rise	5257 Nov 11 13:44	9°M20'34	2 3701	retrograde	5258 Oct 05 02:22	5°M54'47	
•		8°M54'52		•		3°M31'16	
asc. node direct	5257 Nov 13 02:07	8°M50'17		evening set min. Earth dist.	5258 Oct 12 06:03	0°M40'16	0.62052 ATT
	5257 Nov 14 01:03		17051127	IIIII. Eartii dist.	5258 Oct 15 21:08	0 IIC40 16 30°Ŗ Ω	0.62052 AU
morning max el	5257 Nov 20 13:55	12° M .15′09 0° ∡ 7	1/ 313/	: <i>c</i> :	5258 Oct 16 15:04		2942150
	5257 Dec 02 18:04			inferior conj	5258 Oct 18 20:24	27° Ω 56'44	
morning set	5257 Dec 07 07:18	7°× 7 47'12		minimum elong	5258 Oct 19 02:31	27° Ω 42'40	3°41'0/
desc. node	5257 Dec 19 09:07	28° ₹ 05'24		morning rise	5258 Oct 26 00:49	22° £ 54'34	
	5057 D 20 00 5	200 3000	000 412 0	direct	5258 Oct 28 08:43	22° £ 30'54	
superior conj	5257 Dec 20 00:54	29°×709'51		asc. node	5258 Oct 30 23:10	23° Ω 01'26	1000
minimum elong	5257 Dec 20 00:23	29° ₹ 07'44	0°04'32	morning max el	5258 Nov 04 05:53	26° Ω 00'25	17°51'46
behind sun begin	5257 Dec 19 14:50	28° ∡ 28'48			5258 Nov 07 15:26	0° ™	
behind sun end	5257 Dec 20 09:55	29° ∡ ⁴46'36		morning set	5258 Nov 20 02:35	20°M47'42	
	5257 Dec 20 13:13	0°ಕ			5258 Nov 25 05:54	0° ∡	
max. Earth dist.	5257 Dec 25 15:26	8° ⋜ 11'15	1.44511 AU				
evening rise	5258 Jan 04 20:59	24° る 09'48		superior conj	5258 Dec 01 00:28	10° ₹ 04'04	0°36'38
	5258 Jan 08 16:34	0° ≈		minimum elong	5258 Dec 01 03:36	10° ≯ 17'28	0°36'12
	5258 Jan 29 14:32	0°) €		desc. node	5258 Dec 06 06:07	18° ≯ 52'05	
evening max el	5258 Feb 02 00:02	3° ¥ 50′33	20°31'23	max. Earth dist.	5258 Dec 08 06:11	22° ₹ 09'14	1.43145 AU

	5258 Dec 13 03:29	0°₹		evening rise	5259 Nov 25 15:57	13° ∡ '47'59	
evening rise	5258 Dec 15 10:17	3° そ 35'23		evening rise	5259 Nov 25 13:37 5259 Dec 06 01:13	13 メ ・4739	
evening rise	5259 Jan 02 03:11	0°≈			5259 Dec 28 12:24	0°≈	
evening max el	5259 Jan 15 20:51	0 ∞ 17°≈25'39	210/3112	evening max el	5259 Dec 28 12:24 5259 Dec 29 13:09	0 ∞ 1°≈03'47	23°01'44
retrograde	5259 Jan 24 23:19	22°≈49'57	21 43 12	retrograde	5260 Jan 08 18:20	7°≈07'04	25 01 44
asc. node	5259 Jan 26 22:26	22°≈29'24		evening set	5260 Jan 13 14:41	7 ≈07 04 5°≈07'27	
evening set	5259 Jan 29 07:44	22 ≈2924 21°≈06'08		asc. node	5260 Jan 13 19:26	3 ≈ 67 27 4°≈57'18	
inferior conj	5259 Feb 03 15:50	21 ≈00 03 14°≈48'24	2°21'24	asc. node	5260 Jan 18 01:37	30°Rる	
minimum elong	5259 Feb 03 13:26	14°≈56'43	2°20'42	inferior conj	5260 Jan 18 23:54	30 KO 28°る43'21	1°40'17
min. Earth dist.	5259 Feb 03 18:50	14°≈37'57	0.68034 AU	minimum elong	5260 Jan 18 21:53	28° ろ 50'21	1°39'34
morning rise	5259 Feb 08 18:57	8°≈36'40	0.08034 AU	min. Earth dist.	5260 Jan 18 15:29	28 3 3021 29° る 12'23	0.68117 AU
direct	5259 Feb 13 18:48	6°≈27'34		morning rise	5260 Jan 24 04:59	29 ප 1223	0.08117 AU
morning max el	5259 Feb 23 17:53	0 ≈2734 12°≈21'32	22°52'20	direct	5260 Jan 28 14:24	22 3 3339 20° る 49'28	
desc. node	5259 Mar 04 05:22	12 ≈ 21 32 22° ≈ 21'46	22 32 20	morning max el	5260 Feb 06 08:04	20 3 4928	2192706
desc. node	5259 Mar 09 20:01	22 ≈ 21 46 0°) €		morning max er	5260 Feb	23 O 33 38 0° ≈	21 27 00
		0 Υ 0° Υ		desc. node		0 ≈ 11°≈57'07	
	5259 Mar 29 10:48	0° γ 1° Υ 09'40		desc. node	5260 Feb 19 02:23	0° \	
morning set	5259 Mar 30 03:40	8° Υ 46'04	1 20050 AII		5260 Mar 02 08:04		
max. Earth dist.	5259 Apr 03 15:58	8° 1'46'04	1.39959 AU	morning set	5260 Mar 08 22:01	10°) 14'15	1 42061 ATT
	5250 A 11 10 12	2200021101	1040144	max. Earth dist.	5260 Mar 15 16:51	21°) 11'46	1.42061 AU
superior conj	5259 Apr 11 10:13	22° Υ 31'01			5260 Mar 20 22:52	0 ° Υ	
minimum elong	5259 Apr 11 15:13	22° Y 53'54	1°48'16		50.00 1. 00 04.14	2000 4044 5	2005121
	5259 Apr 15 11:06	0°8		superior conj	5260 Mar 23 04:14	3° Y 49'15	
evening rise	5259 Apr 21 04:44	10° 8 53'13		minimum elong	5260 Mar 23 07:22	4°Υ02'48	2°05'14
asc. node	5259 Apr 24 21:43	17° 8 53'25		evening rise	5260 Apr 03 07:09	23° Y 40'46	
	5259 May 01 22:33	0° Π			5260 Apr 06 18:43	0°8	
evening max el	5259 May 07 08:17	6° Ⅱ 50'00	18°28'42	asc. node	5260 Apr 10 18:44	7° 8 02'55	
retrograde	5259 May 14 22:16	10° Ⅲ 35'08		evening max el	5260 Apr 19 18:09	19° 8 42'37	18°09'00
evening set	5259 May 17 04:50	10° Ⅱ 15'56		retrograde	5260 Apr 26 12:52	23° 8 08'50	
inferior conj	5259 May 24 17:18	5° Ⅱ 44'50	1°47'26	evening set	5260 Apr 29 02:18	22° 8 39'53	
minimum elong	5259 May 24 20:35	5° Ⅱ 38'19	1°46'25	inferior conj	5260 May 05 21:12	17° 8 47'57	2°48'04
min. Earth dist.	5259 May 28 03:12	3° Ⅱ 03'12	0.58188 AU	minimum elong	5260 May 06 00:23	17° 8 40'34	2°47'22
desc. node	5259 May 31 04:38	0° Д 58'32		min. Earth dist.	5260 May 09 04:29	14° 8 45'40	0.60363 AU
morning rise	5259 Jun 01 09:07	0° Ⅱ 19'38		morning rise	5260 May 12 20:07	11° 8 58'03	
	5259 Jun 02 01:37	30° ₹8		desc. node	5260 May 17 01:39	10° 8 08'45	
direct	5259 Jun 07 08:01	28° 8 48'18		direct	5260 May 19 09:57	9° 8 52'58	
	5259 Jun 12 17:26	0°II	2605511.4	morning max el	5260 Jun 02 17:28	17° 8 47'26	27°42'29
morning max el	5259 Jun 21 17:13	6° Ⅱ 29'03	26°55'14		5260 Jun 12 21:41	0° Ⅱ	
	5259 Jul 09 04:47	0.20			5260 Jun 30 20:28	0. 2	
morning set	5259 Jul 21 15:51	23°540'10		morning set	5260 Jul 04 22:00	8°511'19	
asc. node	5259 Jul 21 20:59	24°907'14		asc. node	5260 Jul 07 18:00	14°509'54	
	5259 Jul 24 14:46	$0^{\circ}\Omega$		max. Earth dist.	5260 Jul 11 03:07	21° © 30'37	1.31985 AU
	5259 Jul 28 16:11	8° Ω 55'29	1905142		52(0 I-1 12 02-29	2206-44121	0°44'28
superior conj	5259 Jul 28 13:55		1°05'18	superior conj minimum elong	5260 Jul 12 03:28 5260 Jul 12 01:39	23°544'31	0°44'05
minimum elong max. Earth dist.	5259 Jul 28 16:09	8° Ω 55'17	1.31953 AU	minimum eiong		23° © 34'30 0° Ω	0 44 03
			1.51935 AU		5260 Jul 14 23:37		
evening rise	5259 Aug 04 12:25	23° Ω 49'35		evening rise	5260 Jul 18 22:41	8° Ω 35'55	
	5259 Aug 07 12:03 5259 Aug 25 03:58	0 ் ⊽ 0° M		daga mada	5260 Jul 29 23:13	0° ሙ 19 ° ሙ 45'34	
daga mada	~			desc. node	5260 Aug 13 00:56	-•	25920150
desc. node	5259 Aug 27 03:54	2° Ω 38'12	26940122	evening max el	5260 Aug 15 04:31	21° Mp 56'04	25°29'59
evening max el	5259 Sep 03 09:30	10° £ 43'30	20-40-33	retrograde	5260 Aug 29 03:08	29° Mp 00'40	
retrograde	5259 Sep 17 07:41	17° £ 52'27		evening set	5260 Sep 04 01:57	27° m 38'22	0.57060 ATT
evening set	5259 Sep 24 03:20	15° £ 54'51	0.60012.411	min. Earth dist.	5260 Sep 08 16:20		0.57969 AU
min. Earth dist.	5259 Sep 27 23:22	13° △ 18'51	0.60012 AU	inferior conj	5260 Sep 11 18:55	22° m 50'13	
inferior conj	5259 Oct 01 04:54	10° £ 43'19		minimum elong	5260 Sep 11 21:56	22° Mp 44'56	5°12′19
minimum elong	5259 Oct 01 10:55	10° £ 31'11	4-33/3/	morning rise	5260 Sep 19 20:13	18° Mp 33'02	
morning rise	5259 Oct 08 20:34	6° Ω 02'48		direct	5260 Sep 22 07:45	18° Mp 14'07	10051126
direct	5259 Oct 11 04:28	5° Ω 42'42		morning max el	5260 Sep 30 21:57	22° m 19'20	18°51'36
asc. node	5259 Oct 17 20:12	8° Ω 35'57	1001117	asc. node	5260 Oct 03 17:13	25° m 23'36	
morning max el	5259 Oct 18 17:41	9° Ω 25'10	18°11'17		5260 Oct 07 00:59	0° ʊ	
	5259 Nov 01 03:08	0°M,		morning set	5260 Oct 17 09:50	18° ≏ 44'02	
morning set	5259 Nov 03 13:00	4°M31'26			5260 Oct 23 03:44	0° M ₊	
gunorior co	5250 Nov. 12 01:04	220m 11110	1007156	gunariar ac-:	5260 Oat 25 21:20	50 m 17107	1020145
superior conj	5259 Nov 13 01:04	22°M11'19 22°M28'56	1°07'56 1°07'27	superior conj	5260 Oct 25 21:30	5°M16'06	1°28'45 1°28'30
minimum elong	5259 Nov 13 04:59	22°11628'36 0° √ 7	1 0/2/	minimum elong max. Earth dist.	5260 Oct 26 00:29	5°M30'18 18°M12'50	1°28′30 1.39214 AU
may Farth 3:-4	5259 Nov 17 10:49		1 41205 177		5260 Nov 01 22:17		1.39214 AU
max. Earth dist.	5050 Niary 20 17-24						
desc. node	5259 Nov 20 16:24 5259 Nov 23 03:08	5° ₹ 32'44 9° ₹ 38'39	1.41305 AU	evening rise	5260 Nov 05 20:02 5260 Nov 08 19:09	25° M .01'04 0° ҂	

dasa mada	5260 Nov 09 00:11	0° ₹ 20'49		avanina riaa	5261 Oat 19 22:06	7° M .14'15	
desc. node		0° ズ ・2049		evening rise	5261 Oct 18 22:06	20°M54'28	
	5260 Nov 28 18:37	14° る 44'58	24921114	desc. node	5261 Oct 26 21:13	20°11⊾34 28 0° √ 1	
evening max el	5260 Dec 11 02:35		24-21-14		5261 Nov 01 15:09		25924154
retrograde	5260 Dec 22 09:51	21°る22'12 19°る07'17		evening max el	5261 Nov 23 15:04	28°♂28'25 0°る	25*34*34
evening set	5260 Dec 27 19:15				5261 Nov 25 06:05		
asc. node	5260 Dec 30 16:27	16° る 05'04	0.67025 ATT	retrograde	5261 Dec 05 20:57	5° る 30'14	
min. Earth dist.	5261 Jan 01 11:31	13°₹45'57	0.67825 AU	evening set	5261 Dec 11 19:49	3°る02'07	
inferior conj	5261 Jan 02 06:57	12°る40'47	0°52'12		5261 Dec 14 18:41	30°R. ✓	0.65150.477
minimum elong	5261 Jan 02 05:44	12° る 44'51	0°51'43	min. Earth dist.	5261 Dec 16 04:43	28° ∡ 15'15	0.67172 AU
morning rise	5261 Jan 07 16:18	6° ප 38'56		inferior conj	5261 Dec 17 11:09	26° ∡ ³37'56	
direct	5261 Jan 11 12:17	5° る 15'06		minimum elong	5261 Dec 17 11:12	26° ∡ ³37'47	
morning max el	5261 Jan 19 05:46	9° ප 38'30	20°12'26	transit middle	5261 Dec 17 11:12	26° ∡ ³37'47	0°01'58
	5261 Feb 03 15:38	0° ≈		transit begin	5261 Dec 17 08:24	26° ≯ ¹46'42	
desc. node	5261 Feb 04 23:25	1° ≈ 57'49		transit end	5261 Dec 17 13:59	26° ₹ ¹28'51	
morning set	5261 Feb 15 20:16	18° ≈ 28'12		asc. node	5261 Dec 17 13:30	26° ₰ ³30'24	
	5261 Feb 23 05:15	0° ℋ		morning rise	5261 Dec 23 02:57	20° х¹ 43'53	
max. Earth dist.	5261 Feb 26 01:18	4° ∺ 30'59	1.43779 AU	direct	5261 Dec 26 11:02	19° ∡ ³39'49	
				morning max el	5262 Jan 02 11:20	23° ∡ ³33'33	19°11'56
superior conj	5261 Mar 03 21:30	13° ¥ 59'57	-2°08'09		5262 Jan 07 20:59	ರ∘ರ	
minimum elong	5261 Mar 03 19:29	13° ¥ 51'38	2°08'06	greatest brilliancy	5262 Jan 16 02:48	11° ප 56'40	-0.7m
C	5261 Mar 13 09:39	$_0$ $^{\circ}$ \mathbf{Y}		desc. node	5262 Jan 22 20:27	22°る16'53	
evening rise	5261 Mar 16 16:18	5° Ƴ 39'34		morning set	5262 Jan 25 21:30	26° ප 59'51	
asc. node	5261 Mar 28 15:45	25° Ƴ 43'25			5262 Jan 27 19:54	0° ≈	
use. Houe	5261 Mar 31 17:24	0°8		max. Earth dist.	5262 Feb 08 15:52		1.44912 AU
evening max el	5261 Apr 03 06:46	2° 8 54'45	18°08'40	max. Earth dist.	3202100 00 13.32	10 (4.2) 23	1.11912710
retrograde	5261 Apr 09 17:17	6° 8 17'10	10 00 40	superior conj	5262 Feb 11 14:25	23° ≈ 08'12	1°52'06
evening set	5261 Apr 12 13:02	5° 8 36'54		minimum elong	5262 Feb 11 14:23 5262 Feb 11 06:22	23 ≈06 12 22°≈36'19	
•	=	0° 8 25'19	2021106	minimum clong	5262 Feb 11 00:22 5262 Feb 15 21:43	0° \	1 3131
inferior conj	5261 Apr 18 18:24	_				0 X 16° ¥ 42'10	
minimum elong	5261 Apr 18 20:11	0° 8 20'36	3-20-53	evening rise	5262 Feb 26 03:57	10° π 4210	
i Datis	5261 Apr 19 03:57	30°RΥ	0.62522.411		5262 Mar 06 05:51		
min. Earth dist.	5261 Apr 21 14:26	27° Y 26'37	0.62523 AU	asc. node	5262 Mar 15 12:47	13° Y 45'45	1000000
morning rise	5261 Apr 25 01:53	24°Υ20'42		evening max el	5262 Mar 17 19:13	16° Y 18'57	18°27'00
direct	5261 May 01 22:01	21° Y 48'15		retrograde	5262 Mar 24 06:57	19° Y 50'44	
desc. node	5261 May 03 22:40	22° Y 00'34		evening set	5262 Mar 27 08:59	18° Y 58′02	
morning max el	5261 May 15 23:39	29° Ƴ 48'57	27°52'01	inferior conj	5262 Apr 02 04:42	13° Y 28′20	3°32'28
	5261 May 16 04:03	9° 8		minimum elong	5262 Apr 02 04:52	13° Y 27′50	3°32'27
	5261 Jun 06 21:31	Π $^{\circ}0$		min. Earth dist.	5262 Apr 04 09:48	10° Ƴ 53'07	0.64448 AU
morning set	5261 Jun 18 22:37	22° Ⅱ 23'32		morning rise	5262 Apr 07 23:59	7° Ƴ 16'32	
	5261 Jun 22 14:48	0ಂ ತಾ		direct	5262 Apr 14 18:24	4° Y 28'54	
max. Earth dist.	5261 Jun 24 10:17	3° © 51'33	1.32441 AU	desc. node	5262 Apr 20 19:42	6° Ƴ 19'16	
asc. node	5261 Jun 24 15:02	4°917'04		morning max el	5262 Apr 28 09:02	12° Y 25'32	27°25'16
					5262 May 12 10:01	$_{0\circ}$ 8	
superior conj	5261 Jun 26 12:32	8°\$23'08	0°19'39		5262 May 30 10:22	$\Pi^{\circ}0$	
minimum elong	5261 Jun 26 11:38	8°918'11	0°19'26	morning set	5262 Jun 02 14:56	6° Ⅱ 07'41	
evening rise	5261 Jul 03 10:25	23°523'24		max. Earth dist.	5262 Jun 07 09:27	15° Ⅱ 44'54	1.33353 AU
•	5261 Jul 06 14:25	$0^{\circ}\Omega$					
	5261 Jul 25 08:05	0° m)		superior conj	5262 Jun 10 17:24	22° Ⅱ 44′23	-0°08'05
evening max el	5261 Jul 27 17:34	2° m/28'58	23°58'16	minimum elong	5262 Jun 10 17:48	22° II 46'35	
desc. node	5261 Jul 30 21:57	5° m 14'29		behind sun begin	5262 Jun 10 13:02	22° II 21'15	
retrograde	5261 Aug 10 11:17	9° m 23'36		behind sun end	5262 Jun 10 22:34	23° I I1'56	
evening set	5261 Aug 15 00:33	8° m) 37'47		asc. node	5262 Jun 11 12:04	24° I I23'48	
min. Earth dist.	5261 Aug 21 03:56		0.56208 AU	use. Houe	5262 Jun 14 02:51	0°95	
inferior conj	5261 Aug 23 12:44	4° Mp 11'27		evening rise	5262 Jun 17 21:44	8°904'55	
minimum elong	5261 Aug 23 09:40	4° Mp 16'10		evening rise	5262 Jun 29 10:46	0° Ω	
_	_	0° الله الله عند 10° الله الله 10° الل	3 13 08	avanina may al	5262 Jul 09 07:29	12° Ω 49'56	22020140
morning rise	5261 Aug 31 21:17			evening max el			22 20 46
1	5261 Sep 02 04:35	30°R€		desc. node	5262 Jul 17 18:59	18° Ω 30'02	
direct	5261 Sep 03 15:27	29° £ 54′29		retrograde	5262 Jul 22 07:06	19° Ω 17'03	
	5261 Sep 05 01:47	0° Mp	10052142	evening set	5262 Jul 25 08:28	18° Ω 56'25	0.55064.133
morning max el	5261 Sep 13 15:40		19°53'43	min. Earth dist.	5262 Aug 02 14:05	15° Ω 22'09	0.55064 AU
asc. node	5261 Sep 20 14:16	13° Mp 09'42		inferior conj	5262 Aug 03 13:06	14° Ω 49'38	
	5261 Sep 29 22:42	0∘ ⊽		minimum elong	5262 Aug 03 04:44	15° Ω 01'27	4°22'49
morning set	5261 Oct 01 13:44	3° ≏ 16′22		morning rise	5262 Aug 12 02:51	10° Ω 59'46	
				direct	5262 Aug 15 06:22	10° Ω 37'25	
superior conj	5261 Oct 09 08:34	19° ჲ 03'46	1°40'07	morning max el	5262 Aug 26 21:10	16° Ω 02'45	21°16'55
minimum elong	5261 Oct 09 10:02	19° ≙ 11'04	1°40'04		5262 Sep 06 11:50	0° m	
	5261 Oct 14 23:48	0° M		asc. node	5262 Sep 07 11:20	1° m 40'14	
max. Earth dist.	5261 Oct 15 03:24	0°M16'56	1.37137 AU	morning set	5262 Sep 15 22:10	18° m 01'05	

	5262 Sep 21 15:20	0∘ ⊽		morning set	5263 Aug 31 09:08	2° m 52'21	
superior conj	5262 Sep 23 05:59	3° ჲ 21'18	1°43'25	superior conj	5263 Sep 07 10:24	17° m 58'42	1°39'53
minimum elong	5262 Sep 23 05:56	3° ₽ 21′05	1°43'26	minimum elong	5263 Sep 07 09:10	17° m 52'07	1°39'49
max. Earth dist.	5262 Sep 27 13:36	12° ჲ 08'31	1.35291 AU	max. Earth dist.	5263 Sep 10 08:33	24° m 09'47	1.33812 AU
evening rise	5262 Oct 01 18:26	20° ₽ 18′03			5263 Sep 13 04:35	0∘ ত	
	5262 Oct 07 01:55	0° M		evening rise	5263 Sep 15 04:46	4° ≏ 00'58	
desc. node	5262 Oct 13 18:16	11°M14'32			5263 Sep 29 20:19	0° M	
	5262 Oct 26 14:23	0°⊀		desc. node	5263 Sep 30 15:17	1°M14'17	
evening max el	5262 Nov 06 03:52	12° √ 10'14	26°35'19	evening max el	5263 Oct 19 16:35	25°M40'42	27°14'59
retrograde	5262 Nov 19 02:52	19° 🖈 24'59		. 1	5263 Oct 24 22:58	0° ⊀ ⁷	
evening set min. Earth dist.	5262 Nov 25 14:29 5262 Nov 29 16:44	16° ₹ 47'53 12° ₹ 36'10	0.66169 AU	retrograde	5263 Nov 02 02:44 5263 Nov 09 00:53	2° 尽 58'38 0° 尽 19'01	
inferior conj	5262 Dec 01 10:33	12 x · 30 10 10° x 31'13		evening set	5263 Nov 09 10:29	30°RM	
minimum elong	5262 Dec 01 10:35 5262 Dec 01 12:15		1°00'32	min. Earth dist.	5263 Nov 12 21:09	26°M42'12	0.64823 AU
asc. node	5262 Dec 04 10:34	7° ₹ 09'15	1 00 32	inferior conj	5263 Nov 15 02:52	24°M15'16	
morning rise	5262 Dec 07 10:47	4° ∡ ⁴47'33		minimum elong	5263 Nov 15 06:28	24°M05'23	2°02'35
direct	5262 Dec 10 09:01	3° ₹ 59'33		asc. node	5263 Nov 21 07:37	18° M 51'37	
morning max el	5262 Dec 16 23:17	7° ∡ ³34'35	18°27'24	morning rise	5263 Nov 21 13:13	18°M45'03	
	5263 Jan 01 16:43	8°0		direct	5263 Nov 24 03:53	18°M09'16	
morning set	5263 Jan 05 23:03	6° る 48'34		morning max el	5263 Nov 30 15:08	21°M35'11	17°59'40
desc. node	5263 Jan 09 17:29	12° る 49'04			5263 Dec 07 03:32	0° ∡	
	5263 Jan 20 14:41	0° ≈		morning set	5263 Dec 18 06:09	18° ∡ ′05'19	
	50/0.1	10 16111	1017110		5263 Dec 25 11:00	0°る	
superior conj	5263 Jan 21 17:54	1°≈46'44		desc. node	5263 Dec 27 14:30	3° る 29'44	
minimum elong max. Earth dist.	5263 Jan 21 09:02 5263 Jan 22 10:19	1°≈11'58 2°≈51'05	1.45339 AU	aumorior aoni	5264 Jan 01 03:43	10° る 49'08	0021121
evening rise	5263 Feb 06 16:19	2 ≈31 03 26°≈48'49	1.43339 AU	superior conj minimum elong	5263 Dec 31 23:55	10 84908 10° る 33'55	
evening rise	5263 Feb 08 16:42	0° H		max. Earth dist.	5264 Jan 05 05:57	10 3 3333	1.45024 AU
greatest brilliancy	5263 Feb 16 10:32	12°) 11'43	-0.8m	max. Earth dist.	5264 Jan 13 08:52	0°≈	1.43024710
evening max el	5263 Mar 01 05:07	29° H 50'09	19°03'00	evening rise	5264 Jan 17 09:30	6°≈13'21	
<i>y</i>	5263 Mar 01 09:01	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	5264 Jan 31 13:27	27° ≈ 44'18	-0.6m
asc. node	5263 Mar 02 09:51	0° Y 58'48			5264 Feb 02 02:29	0°) €	
retrograde	5263 Mar 08 02:09	3° Y 42'49		evening max el	5264 Feb 12 10:31	13°) €23'34	19°55'05
evening set	5263 Mar 11 11:07	2° Y 36'46		asc. node	5264 Feb 17 06:53	17° ₩ 07'59	
	5263 Mar 14 09:34	30° ₹ ₩		retrograde	5264 Feb 19 23:57	17° ¥ 46′57	
inferior conj	5263 Mar 17 00:28	26°) 50′34		evening set	5264 Feb 23 16:56	16°) €26'42	
minimum elong	5263 Mar 16 23:19	26°) 54'13	3°27'16	inferior conj	5264 Feb 29 02:35	10° ∺ 25'58	3°09'33
min. Earth dist.	5263 Mar 18 14:02	24°) 51'32	0.66001 AU	minimum elong	5264 Feb 29 00:34	10°) (32′42	
morning rise direct	5263 Mar 22 11:08	20°) 36'06 17°) 47'00		min. Earth dist.	5264 Mar 01 01:34 5264 Mar 05 08:00	9°) 09'02 4°) 11'21	0.67125 AU
desc. node	5263 Mar 28 21:34 5263 Apr 07 16:43	22° H 32'01		morning rise direct	5264 Mar 11 06:19	4 X 1121 1° X 32'22	
morning max el	5263 Apr 10 18:58	25°\(\frac{1}{2}201\)	26°28'43	morning max el	5264 Mar 23 04:02	8° H 39'14	25°11'29
morning max er	5263 Apr 14 23:04	0°Υ	20 20 43	desc. node	5264 Mar 24 13:44	10°) €07'05	23 112)
	5263 May 05 22:05	0°8			5264 Apr 08 22:25	0° Υ	
morning set	5263 May 16 19:34	19° 8 14'19			5264 Apr 27 11:43	0°8	
max. Earth dist.	5263 May 20 21:49	27° 8 07'39	1.34744 AU	morning set	5264 Apr 28 07:55	1° 8 30'16	
	5263 May 22 08:32	$\Pi^{\circ}0$		max. Earth dist.	5264 May 01 23:33	8° 8 11'19	1.36568 AU
superior conj	5263 May 25 15:47	6° Ⅱ 42'16		superior conj	5264 May 08 04:49	20° 8 08'43	
minimum elong	5263 May 25 17:50	6° Ⅱ 52'50	0°37'12	minimum elong	5264 May 08 08:34	20° 8 27'15	1°06'46
asc. node	5263 May 29 09:07	14° Ⅲ 26'32 22° Ⅲ 35'09		aga mada	5264 May 13 02:42	0° П 4° П 21′04	
evening rise	5263 Jun 02 06:43 5263 Jun 05 22:19	0°95		asc. node evening rise	5264 May 15 06:10 5264 May 16 11:06	4 <u>П</u> 21 04 6° П 47'22	
evening max el	5263 Jun 21 06:16	23° © 32'13	20°51'57	evening rise	5264 May 29 13:09	0°95	
retrograde	5263 Jul 02 19:23	29° © 12'34	20 3137	evening max el	5264 Jun 02 17:27	4°954'25	19°40'21
evening set	5263 Jul 04 22:32	29° 5 01'45		retrograde	5264 Jun 12 13:02	9° 5 42'25	
desc. node	5263 Jul 04 16:00	29° © 04'18		evening set	5264 Jun 14 11:07	9° © 32'13	
inferior conj	5263 Jul 14 06:03	25°504'42	-2°47'39	desc. node	5264 Jun 20 12:59	7° © 07'38	
minimum elong	5263 Jul 13 22:30	25° © 15'25		inferior conj	5264 Jun 23 06:21	5° © 28'57	-0°48'55
min. Earth dist.	5263 Jul 15 00:53	24°538'00	0.54812 AU	minimum elong	5264 Jun 23 04:07	5° © 32'26	0°48'05
morning rise	5263 Jul 22 22:20	21° © 03'44		min. Earth dist.	5264 Jun 25 13:40	4° 5 02'41	0.55520 AU
direct	5263 Jul 26 15:30	20° © 34'04		morning rise	5264 Jul 01 18:50	0° ട്ട 58'42	
morning max el	5263 Aug 08 16:01	26°5548'26	22°56'07	direct	5264 Jul 06 07:11	0°513'28	
	5263 Aug 11 18:15	0°N		morning max el	5264 Jul 20 05:45	7° © 10'41	24°40'07
asc. node	5263 Aug 25 08:23	20° Ω 44'20		1	5264 Aug 05 19:52	0° Ω	
	5263 Aug 30 00:08	0° т р		asc. node	5264 Aug 11 05:25	10° Ω 13'31	

morning set	5264 Aug 14 20:54	17° Ω 45'24		asc. node	5265 Jul 29 02:26	0° Ω 00'04	
	5264 Aug 20 12:31	0° m			5265 Jul 29 02:26	$0 {\circ} \Omega$	
				morning set	5265 Jul 30 07:48	2° Ω 34'10	
superior conj	5264 Aug 21 19:19	2°M/48'16	1°30'32				
minimum elong	5264 Aug 21 17:19	2° Mp 37′22	1°30'18	superior conj	5265 Aug 06 06:33	17° Ω 42'23	1°16'05
max. Earth dist.	5264 Aug 23 11:54	6° Mp 28′53	1.32751 AU	minimum elong	5265 Aug 06 04:15	17° Ω 29'42	1°15'43
evening rise	5264 Aug 29 01:23	18° Mp 12'48		max. Earth dist.	5265 Aug 06 20:51	19° Ω 01'14	1.32118 AU
	5264 Sep 04 02:09	0० ⊽			5265 Aug 11 22:07	O° Mp	
desc. node	5264 Sep 16 12:18	20° £ 45'11		evening rise	5265 Aug 13 05:09	2° Mp 43'44	
	5264 Sep 23 05:54	o° m ₊			5265 Aug 27 22:25	0∘ ত	
evening max el	5264 Oct 01 03:19	8°M46'53	27°27'12	desc. node	5265 Sep 03 09:19	9° ₽ 34'28	
retrograde	5264 Oct 14 20:06	16° ™ 02'44		evening max el	5265 Sep 13 09:29	21° ≏ 14'42	27°07'11
evening set	5264 Oct 22 00:04	13°M29'51		retrograde	5265 Sep 27 06:19	28° ≏ 26'54	
min. Earth dist.	5264 Oct 25 15:55	10°M24'37	0.63147 AU	evening set	5265 Oct 04 08:09	26° £ 12'33	
inferior conj	5264 Oct 28 09:22	7°M43'46	-3°07'38	min. Earth dist.	5265 Oct 07 23:56	23° ≏ 30'09	0.61199 AU
minimum elong	5264 Oct 28 14:46	7°M30'28	3°05'45	inferior conj	5265 Oct 11 02:50	20° ≏ 47'41	-4°07'28
morning rise	5264 Nov 04 07:04	2°M30'33		minimum elong	5265 Oct 11 09:11	20° £ 33'52	4°05'47
direct	5264 Nov 06 16:42	2°M03'21		morning rise	5265 Oct 18 12:13	15° ≏ 54'46	
asc. node	5264 Nov 07 04:38	2°M04'33		direct	5265 Oct 20 19:41	15° £ 32'58	
morning max el	5264 Nov 13 07:59	5°M28'50	17°49'28	asc. node	5265 Oct 25 01:39	16° ≏ 49'48	
moning man vi	5264 Nov 29 06:21	0° ∡ 7	17 .5 20	morning max el	5265 Oct 27 22:38	19° £ 06'39	17°57'44
morning set	5264 Nov 29 14:10	0° х 34′16		morning man vi	5265 Nov 04 21:16	0°M	1, 0,
morning sec	32011101 29 11.10	0 7 3 1 10		morning set	5265 Nov 12 16:31	13°M54'44	
superior conj	5264 Dec 11 12:04	20° ₹ ′59′28	0°13'57	morning set	5265 Nov 21 13:29	0° ⊼	
minimum elong	5264 Dec 11 13:29	21° × ⁷ 05'21	0°13'45		3203 1101 21 13.23	0	
behind sun begin	5264 Dec 11 08:34	20° × ⁷ 44'56	0 13 13	superior conj	5265 Nov 22 22:49	2° х 26′33	0°51'12
behind sun end	5264 Dec 11 18:23	21° х 1430		minimum elong	5265 Nov 23 02:34	2° × ⁷ 42'57	
desc. node	5264 Dec 13 11:33	24° 🖈 15'40		desc. node	5265 Nov 30 08:35	15°× 7 02'54	0 3041
desc. Hode	5264 Dec 17 00:10	24 × 13 40		max. Earth dist.	5265 Nov 30 08:35	15° × 18'04	1.42404 AU
max. Earth dist.	5264 Dec 17 00:10 5264 Dec 17 23:30	0 3 1°る33'50	1.44007 AU	evening rise	5265 Dec 06 14:33	25° × 1004	1.42404 AU
	5264 Dec 26 19:42	1 333 30 15° る 27'46	1.44007 AU	evening rise	5265 Dec 09 16:33	23 メ ・0947 0°る	
evening rise	5265 Jan 05 09:54	13 3 27 40 0° ≈			5265 Dec 30 08:28	0°≈	
evening max el	5265 Jan 25 10:23	0 ∞ 26°≈57'52	21°00'39	evening max el	5266 Jan 08 04:59	0 ∞ 10°≈33'49	22°16'01
evening max er	5265 Jan 28 20:47	20 ≈3732 0° H	21 00 39	retrograde	5266 Jan 17 18:51	10 ≈33 49 16°≈15'37	22 1001
		1° ¥ 59'08		~	5266 Jan 21 00:54	16°≈15'37 15°≈19'57	
retrograde	5265 Feb 02 22:08 5265 Feb 03 03:54	1° X 59'49		asc. node evening set	5266 Jan 22 08:08	13 ≈1937 14°≈25'02	
asc. node evening set	5265 Feb 07 00:30	0° ∺ 23'57		Č	5266 Jan 27 16:31	8°≈03'51	2°04'54
evening set	5265 Feb 07 00:30 5265 Feb 07 12:06	0 \(\chi_23\) 30°\(\chi\)≈		inferior conj	5266 Jan 27 14:13	8°≈11'49	
inforior coni		30 k≈ 24°≈11'18	2041121	minimum elong min. Earth dist.	5266 Jan 27 14:32		0.68113 AU
inferior conj	5265 Feb 12 08:37	24 ≈11 18 24°≈19'33					0.08113 AU
minimum elong	5265 Feb 12 06:14 5265 Feb 12 18:29			morning rise	5266 Feb 01 20:10	1°≈53'30 30°Rる	
min. Earth dist.		23°≈37'15	0.67822 AU	Ji	5266 Feb 05 12:08		
morning rise	5265 Feb 17 11:48	17°≈58'06		direct	5266 Feb 06 13:41	29°る54'16 0°≈	
direct	5265 Feb 22 19:57	15°≈37'00	22942140		5266 Feb 07 15:54		22915106
morning max el	5265 Mar 05 12:51	21°≈59'38	23°43'40	morning max el desc. node	5266 Feb 16 00:06	5°≈27'08	22°15'06
desc. node	5265 Mar 11 10:45	28°≈41'19		desc. node	5266 Feb 26 07:48	17°≈58'14	
	5265 Mar 12 11:59	0° ℋ 0° Ƴ		. ,	5266 Mar 06 19:23	0°) {	
. ,	5265 Apr 02 05:44	12° Υ 40'18		morning set	5266 Mar 21 09:03	22° ┼ 31'28 0° Ƴ	
morning set	5265 Apr 09 22:13		1 20/02 AII	Fauth 4:-4	5266 Mar 25 21:56		1 40070 ATT
max. Earth dist.	5265 Apr 13 19:24	19° Y 24'33	1.38692 AU	max. Earth dist.	5266 Mar 26 16:25	1° Ƴ 17'38	1.40879 AU
	5265 Apr 19 15:36	0° 8			5266 A 02 11 14	1.4000.47147	1057107
	50/5 1 21 04 45	20 4 5 4102	1025105	superior conj	5266 Apr 03 11:14	14° Y 47'47	
superior conj	5265 Apr 21 04:47	2° 8 54'03		minimum elong	5266 Apr 03 15:49	15° Y 08'15	1°56'4'/
minimum elong	5265 Apr 21 09:44	3° 8 17'19	1°34'29		5266 Apr 11 18:18	0°8	
evening rise	5265 Apr 30 08:12	20° 8 33'50		evening rise	5266 Apr 13 18:38	3° 8 46'03	
asc. node	5265 May 02 03:11	24° 8 02'33		asc. node	5266 Apr 19 00:12	13° 8 25'55	
	5265 May 05 06:33	0°II		evening max el	5266 Apr 29 22:53	29° 8 36'05	18°17'55
evening max el	5265 May 16 16:01	16° Ⅲ 57'55	18°48'57		5266 Apr 30 08:55	0° Π	
retrograde	5265 May 24 22:48	21° I I02'04		retrograde	5266 May 07 03:25	3° Ⅱ 11′23	
evening set	5265 May 27 01:13	20° ∏ 47'21		evening set	5266 May 09 12:49	2° ∏ 48'27	
inferior conj	5265 Jun 04 01:03	16° Ⅱ 27'36	0°58'24		5266 May 14 11:04	30°₹ 8	2016:51
minimum elong	5265 Jun 04 03:13	16° Ⅱ 23'40	0°57'39	inferior conj	5266 May 16 17:25	28° 8 08'43	2°16'51
desc. node	5265 Jun 07 09:59	14° Ⅱ 01'43		minimum elong	5266 May 16 20:54	28° 8 01'17	2°15'54
min. Earth dist.	5265 Jun 07 06:02	14° ∏ 08'33	0.57046 AU	min. Earth dist.	5266 May 20 03:44	25° 8 14'55	0.59091 AU
morning rise	5265 Jun 12 01:52	11° Ⅱ 20'43		morning rise	5266 May 24 01:59	22° 8 31'21	
direct	5265 Jun 17 12:32	10° Ⅱ 08'45		desc. node	5266 May 25 07:00	21° 8 54'33	
morning max el	5265 Jul 01 20:53	17° Ⅲ 37'39	26°13'02	direct	5266 May 30 08:10	20° 8 45'12	
	5265 Jul 12 02:54	0 \circ		morning max el	5266 Jun 13 17:30	28° 8 33'48	27°19'45

,	J		C	<i>()</i>		, 1	S
	5266 Jun 15 03:27	$\Pi^{\circ}0$		direct	5267 May 12 15:03	2° 8 11'58	
					•		27051102
	5266 Jul 05 20:57	0°©		morning max el	5267 May 26 20:18	10° 8 10'10	27°51'02
morning set	5266 Jul 14 16:14	17°©13'35			5267 Jun 11 06:04	Π $^{\circ}0$	
asc. node	5266 Jul 15 23:29	19° © 58'32			5267 Jun 28 01:16	0 \circ \odot	
	5266 Jul 20 14:13	$0^{\circ}\Omega$		morning set	5267 Jun 28 20:18	1° © 37'15	
				asc. node	5267 Jul 02 20:32	10° © 03'34	
superior conj	5266 Jul 21 18:21	2° Ω 35'16	0°57'10	max. Earth dist.	5267 Jul 04 17:40	14°907'50	1.32126 AU
minimum elong	5266 Jul 21 16:13	2°Ω23'30		max. Earth dist.	3207 341 01 17.10	1. 00, 50	1.52120710
•					50(7 I-1 0(04.5)	1796-20129	0924120
max. Earth dist.	5266 Jul 21 08:02	1° Ω 38'14	1.31911 AU	superior conj	5267 Jul 06 04:56	17°520'38	0°34'20
evening rise	5266 Jul 28 13:40	17° Ω 26'31		minimum elong	5267 Jul 06 03:27	17°5512'28	0°34'01
	5266 Aug 03 18:26	0° mp			5267 Jul 11 23:48	$0^{\circ}\Omega$	
desc. node	5266 Aug 21 06:19	27° m 25'26		evening rise	5267 Jul 13 00:48	2° Ω 14'03	
	5266 Aug 23 12:15	0∘ ⊽			5267 Jul 27 23:51	0° m	
evening max el	5266 Aug 26 08:54	2° £ 55'23	26°13'54	evening max el	5267 Aug 08 01:05	13° m 49'27	24°52'47
retrograde	5266 Sep 09 08:02	10° ≏ 03'25		desc. node	5267 Aug 08 03:19	13° m 54'48	
evening set	5266 Sep 15 20:19	8° £ 19'57		retrograde	5267 Aug 21 22:54	20° m 50'43	
•	•		0.59124 AU	•	•	-	
min. Earth dist.	5266 Sep 19 22:02			evening set	5267 Aug 27 08:26	19° m 44'55	
inferior conj	5266 Sep 23 03:48	3° ≏ 18'04		min. Earth dist.	5267 Sep 01 12:32		0.57163 AU
minimum elong	5266 Sep 23 08:59	3° ჲ 08'13	4°54'34	inferior conj	5267 Sep 04 09:19	15°Mp06'19	
	5266 Sep 28 00:56	30°₽, Т р		minimum elong	5267 Sep 04 10:01	15°Mp05'10	5°18'11
morning rise	5266 Sep 30 23:52	28° m 47'37		morning rise	5267 Sep 12 13:55	10° m 57'58	
direct	5266 Oct 03 08:41	28° m/28'25		direct	5267 Sep 15 03:54	10° m 38'59	
	5266 Oct 08 08:56	0∘ <u>⊽</u>		morning max el	5267 Sep 24 07:44	14° m 57'56	19°15'19
morning max el	5266 Oct 11 07:40	o — 2° Ω 19'34	18°25'50	asc. node	5267 Sep 28 19:46	20° m/11'23	17 13 17
asc. node		2° £ 57'00	16 23 30	asc. node	•	0° ʊ	
	5266 Oct 11 22:42				5267 Oct 04 22:53		
morning set	5266 Oct 27 07:46	27° ≙ 51'24		morning set	5267 Oct 11 08:00	12° ≏ 13'36	
	5266 Oct 28 10:33	0°M₊					
				superior conj	5267 Oct 19 11:41	28° ≏ 24'14	1°34'39
superior conj	5266 Nov 05 08:27	14°M59'39	1°18'00	minimum elong	5267 Oct 19 14:04	28° ≏ 35'44	1°34'29
minimum elong	5266 Nov 05 12:06	15°M16'30	1°17'36		5267 Oct 20 07:29	0°M₊	
max. Earth dist.	5266 Nov 12 19:44	28°M20'28	1.40425 AU	max. Earth dist.	5267 Oct 26 00:43	10°M43'31	1.38313 AU
man. Darm dist.	5266 Nov 13 18:55	0° %	1.10120110	evening rise	5267 Oct 29 19:13	17°M26'57	1.50515110
evening rise	5266 Nov 17 05:23	5° ∡ 146'57		desc. node	5267 Nov 04 02:38	26°M27'11	
•				desc. node			
desc. node	5266 Nov 17 05:37	5° ∡ 47'55			5267 Nov 06 06:55	0° ∡	
	5266 Dec 02 20:25	0°ಕ			5267 Nov 27 06:13	0°ಕ	
evening max el	5266 Dec 21 19:46	24° る 12'57	23°35'56	evening max el	5267 Dec 04 08:49	7° る 56'26	24°53'52
	5266 Dec 29 17:59	0° ≈		retrograde	5267 Dec 16 02:16	14° る 45'00	
retrograde	5267 Jan 01 12:37	0° ≈ 32'11		evening set	5267 Dec 21 17:21	12° る 24'25	
-	5267 Jan 04 03:04	30°₽₹		asc. node	5267 Dec 25 18:58	7°る54'58	
evening set	5267 Jan 06 14:16	28° る 26'08		min. Earth dist.	5267 Dec 26 06:29		0.67588 AU
asc. node	5267 Jan 07 21:56	27° る 10'58		inferior conj	5267 Dec 27 06:28	5° る 58'29	0°29'57
		22°る45'04	0.68029 AU	minimum elong	5267 Dec 27 05:44	6°පි00'54	0°29'39
min. Earth dist.	5267 Jan 11 11:19						0 29 39
inferior conj	5267 Jan 12 00:23	22°る00'22	1°20'44	morning rise	5268 Jan 01 18:17	29° 🖈 59'30	
minimum elong	5267 Jan 11 22:39	22° ろ 06'18	1°20'05		5268 Jan 01 18:00	30°₽ ⋌	
morning rise	5267 Jan 17 06:59	15° る 54'40		direct	5268 Jan 05 09:05	28° ₹ ¹44'15	
direct	5267 Jan 21 10:30	14° る 18'07			5268 Jan 09 05:48	0°ප	
morning max el	5267 Jan 29 17:11	19° る 04'19	20°53'44	morning max el	5268 Jan 12 18:12	2°る53'27	19°44'51
	5267 Feb 07 16:36	0° ≈		greatest brilliancy	5268 Jan 25 19:57	20° る 03'34	-0.7m
desc. node	5267 Feb 13 04:50	7°≈45'32		desc. node	5268 Jan 31 01:54	27°る55'08	
	5267 Feb 27 23:21	0° ∀			5268 Feb 01 10:48	0° ≈	
mamina aat	5267 Feb 28 16:50	1° ∺ 08′13		marning gat		0 ~ 9° ≈ 20'29	
morning set			1 42050 ATT	morning set	5268 Feb 07 13:08		1 44247 411
max. Earth dist.	5267 Mar 08 19:59	14° ∺ 05'21	1.42850 AU	max. Earth dist.	5268 Feb 19 07:33	27°≈44'23	1.44347 AU
					5268 Feb 20 17:36	0° ∀	
superior conj	5267 Mar 15 19:10	25° ∺ 38′25	-2°08'35				
minimum elong	5267 Mar 15 20:30	25°) 44′02	2°08'34	superior conj	5268 Feb 24 01:39	5° ₩ 21'21	-2°03'49
	5267 Mar 18 08:33	$0^{\circ}\Upsilon$		minimum elong	5268 Feb 23 20:50	5° ₩ 01'56	2°03'37
evening rise	5267 Mar 27 14:16	16° Ƴ 13'58		evening rise	5268 Mar 08 14:44	27°)(49'37	
<i>3</i>	5267 Apr 04 10:22	0°8		<i>5</i>	5268 Mar 09 21:27	0° Υ	
acc node	-	2° 8 24'15		asc. node		0 1 20° Υ 49'54	
asc. node	5267 Apr 05 21:14		1000724		5268 Mar 22 18:16		10014111
evening max el	5267 Apr 13 10:25	12° 8 38'37	18°06'34	evening max el	5268 Mar 26 23:23	25° Y 57'12	18°14'11
retrograde	5267 Apr 20 00:18	16° 8 01'08		retrograde	5268 Apr 02 09:07	29° Y 21'41	
evening set	5267 Apr 22 16:30	15° 8 27'32		evening set	5268 Apr 05 07:38	28° Ƴ 36'04	
inferior conj	5267 Apr 29 05:11	10° 8 27'21	3°05'04	inferior conj	5268 Apr 11 08:27	23° Y 16'29	3°28'10
minimum elong	5267 Apr 29 07:51	10° 8 20'48	3°04'35	minimum elong	5268 Apr 11 09:32	23° Y 13'29	3°28'05
min. Earth dist.	5267 May 02 08:34	7° 8 23'38	0.61306 AU	min. Earth dist.	5268 Apr 13 22:19	20° Y 26′02	0.63393 AU
morning rise	5267 May 05 21:14	4° 8 30'16		morning rise	5268 Apr 17 10:22	17° Υ 08'22	
desc. node	5267 May 03 21:14 5267 May 12 04:03	2° 8 12'36		direct	5268 Apr 24 06:46	14° Y 27'57	
uese. Hour	3201 Iviay 12 04.03	2 01230		uncet	2200 Apr 24 00.40	14 [2/3/	

desc. node	5268 Apr 28 01:06	15° Υ 10'34		morning rise	5269 Mar 31 14:23	0° Υ 15'09	
morning max el	5268 May 08 04:02	22° Υ 27'14	27°44'41		5269 Mar 31 21:36	30°R) €	
morning max or	5268 May 14 19:28	0°8	27 11 11	direct	5269 Apr 07 05:55	27°) 25'41	
	5268 Jun 03 11:10	0°II		direct	5269 Apr 14 09:12	0°Υ	
morning set	5268 Jun 11 17:44	15° Ⅱ 38'18		desc. node	5269 Apr 14 22:08	0° Υ 22'03	
max. Earth dist.	5268 Jun 16 21:58	26° I 18'30	1.32780 AU	morning max el	5269 Apr 20 14:08	5°Υ16'15	27°04'29
asc. node	5268 Jun 18 17:34	0°910'53	1.52700710	morning max er	5269 May 09 10:37	0°8	27 042)
asc. node	5268 Jun 18 15:32	0° ©		morning set	5269 May 26 05:39	29° 8 08'31	
	3206 Juli 16 13.32	0 3		morning set	5269 May 26 16:18	0°Ⅱ	
superior conj	5268 Jun 19 12:29	1° 9 52'37	0°08'12	max. Earth dist.	•		1.33891 AU
1 3				max. Earm dist.	5269 May 30 17:12	8 Д0033	1.55691 AU
minimum elong	5268 Jun 19 12:05 5268 Jun 19 07:30	1°950'28	0°08'06		5269 Jun 03 14:57	16° Ⅱ 05'16	0920125
behind sun begin		1°525'42		superior conj			
behind sun end	5268 Jun 19 16:41	2°515'16		minimum elong	5269 Jun 03 16:02	16° Ⅱ 10'56	0°20'13
evening rise	5268 Jun 26 12:38	16° © 59'56		asc. node	5269 Jun 05 14:36	20° Ⅱ 16'41	
	5268 Jul 02 22:42	$0^{\circ}\Omega$	2221 (122		5269 Jun 10 04:34	0°95	
evening max el	5268 Jul 19 13:34	24° Ω 13'12	23°16'28	evening rise	5269 Jun 10 23:16	1°538'14	
desc. node	5268 Jul 25 00:21	28° Ω 31'23			5269 Jun 27 03:11	0 ° Ω	
	5268 Jul 28 00:10	0° m/		evening max el	5269 Jul 01 06:23	4° Ω 39'51	21°41'11
retrograde	5268 Aug 02 01:08	0° m ,57'59		desc. node	5269 Jul 11 21:22	10° Ω 41'37	
evening set	5268 Aug 05 22:42	0° Mp 24′46		retrograde	5269 Jul 13 16:58	10° Ω 49'24	
	5268 Aug 07 05:48	30° R Ω		evening set	5269 Jul 16 06:43	10° Ω 34'25	
min. Earth dist.	5268 Aug 12 22:50	27° Ω 12'19	0.55630 AU	inferior conj	5269 Jul 25 14:34	6° Ω 33'06	-3°48'22
inferior conj	5268 Aug 14 18:57	26° Ω 07'45	-4°59'15	minimum elong	5269 Jul 25 05:42	6° Ω 45'31	3°45'55
minimum elong	5268 Aug 14 13:08	26° Ω 16′17	4°58'27	min. Earth dist.	5269 Jul 25 08:51	6° Ω 41'07	0.54840 AU
morning rise	5268 Aug 23 05:55	22° Ω 15'35		morning rise	5269 Aug 03 05:59	2° Ω 41′28	
direct	5268 Aug 26 04:01	21° Ω 55'01		direct	5269 Aug 06 14:32	2° Ω 16′54	
morning max el	5268 Sep 05 20:10	26° Ω 52'46	20°26'46	morning max el	5269 Aug 18 20:50	8° Ω 02'37	21°57'42
C	5268 Sep 08 19:10	O° Mp		asc. node	5269 Sep 01 13:53	27° Ω 04'04	
asc. node	5268 Sep 14 16:50	8° m 17'48			5269 Sep 03 03:56	0° m)	
morning set	5268 Sep 24 14:08	26° m 52'09		morning set	5269 Sep 08 23:53	11° m)40'49	
	5268 Sep 26 02:39	0∘ ರ್					
		• —		superior conj	5269 Sep 16 04:24	26° m 53'23	1°42'42
superior conj	5268 Oct 02 03:36	12° ≏ 25'48	1°42'26	minimum elong	5269 Sep 16 03:48	26° mp 50'15	1°42'41
minimum elong	5268 Oct 02 04:24	12° £ 29'51	1°42'25	minimum ciong	5269 Sep 17 16:06	ე° <u>ი</u>	1 12 11
max. Earth dist.	5268 Oct 07 07:50	22° £ 41'09	1.36312 AU	max. Earth dist.	5269 Sep 19 21:36	∘ – 4° Ω 35'15	1.34611 AU
evening rise	5268 Oct 11 05:34	0°M02'44	1.30312 AO	evening rise	5269 Sep 24 08:22	13° ≏ 24'34	1.54011 AC
evening rise	5268 Oct 11 03:54 5268 Oct 11 04:58	0°M		evening rise	5269 Oct 03 12:20	0° ™	
desc. node	5268 Oct 20 23:39	16°M55'39		desc. node	5269 Oct 07 20:39	7°M07'54	
desc. Hode		10 II c 3339		desc. flode	5269 Oct 07 20:39 5269 Oct 24 10:13	/ 1100/34 0° √ 1	
	5268 Oct 29 11:30		26902142				26955101
evening max el	5268 Nov 15 21:28	21°×740'08	26°02'42	evening max el	5269 Oct 29 10:08	5° 🖈 17'27	26°55'01
retrograde	5268 Nov 28 11:01	28° × 48'03		retrograde	5269 Nov 11 14:24		
evening set				: .		12° ₹ 34'48	
min. Earth dist.	5268 Dec 04 15:37	26° ₹ 15'25	0.66702.444	evening set	5269 Nov 18 07:03	9° ∡ ′55'18	0.65640.444
	5268 Dec 08 21:38	21° х 43′40	0.66792 AU	min. Earth dist.	5269 Nov 18 07:03 5269 Nov 22 06:32	9° ₰ 55'18 5° ₰ 58'54	
inferior conj	5268 Dec 08 21:38 5268 Dec 10 08:51	21° х 43'40 19° х 54'05	-0°26'36	min. Earth dist. inferior conj	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30	9° ₹ 55'18 5° ₹ 58'54 3° ₹ 43'30	-1°27'38
inferior conj minimum elong	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34	21° ₹43'40 19° ₹54'05 19° ₹51'53		min. Earth dist.	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59	9° 🖈 55'18 5° 🖈 58'54 3° 🖈 43'30 3° 🖈 36'18	-1°27'38
inferior conj minimum elong asc. node	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02	21° 🖈 43'40 19° 🖈 54'05 19° 🖈 51'53 18° 🖈 18'29	-0°26'36	min. Earth dist. inferior conj minimum elong	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43	9° \$\times^55'18 5° \$\times^58'54 3° \$\times^43'30 3° \$\times^436'18 30° RM	-1°27'38
inferior conj minimum elong asc. node morning rise	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01	21° 🗷 43'40 19° 🗷 54'05 19° 🗷 51'53 18° 🗷 18'29 14° 🗷 04'16	-0°26'36	min. Earth dist. inferior conj minimum elong asc. node	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06	9° \$\times^55'18 5° \$\times^58'54 3° \$\times^43'30 3° \$\times^36'18 30° RM 29° \$\mathbb{M}\$.18'43	-1°27'38
inferior conj minimum elong asc. node morning rise direct	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45	21° 🛪 43'40 19° 🛪 54'05 19° 🛪 51'53 18° 🖈 18'29 14° 🛪 04'16 13° 🛪 07'23	-0°26'36 0°26'16	min. Earth dist. inferior conj minimum elong asc. node morning rise	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53	9° \$\stack 55'18 5° \$\stack 58'54 3° \$\stack 43'30 3° \$\stack 336'18 30° RM 29° M.18'43 28° M.05'30	-1°27'38
inferior conj minimum elong asc. node morning rise	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01	21° 🗗 43'40 19° 🗗 54'05 19° 🗗 51'53 18° 🗗 18'29 14° 🗗 04'16 13° 🗗 07'23 16° 🗗 51'28	-0°26'36	min. Earth dist. inferior conj minimum elong asc. node	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06	9° \$\sigma^55'18 5° \$\sigma^58'54 3° \$\sigma^36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15	-1°27'38
inferior conj minimum elong asc. node morning rise direct morning max el	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49	19° 조 43'40 19° 조 54'05 19° 조 51'53 18° 조 18'29 14° 조 04'16 13° 조 07'23 16° 조 51'28 0° 중	-0°26'36 0°26'16	min. Earth dist. inferior conj minimum elong asc. node morning rise direct	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08	9° \$\tilde{\$755'18}\$ 5° \$\tilde{\$758'54}\$ 3° \$\tilde{\$736'18}\$ 30° \$\tilde{\$ML}\$ 29° \$\tilde{\$ML}\$ 28° \$\tilde{\$M.05'30}\$ 27° \$\tilde{\$M.23'15}\$ 0° \$\tilde{\$N\$}\$	-1°27′38 1°26′33
inferior conj minimum elong asc. node morning rise direct morning max el	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59	21°¾43'40 19°¾54'05 19°¾51'53 18°¾18'29 14°¾04'16 13°¾07'23 16°¾51'28 0°♂ 18°♂20'23	-0°26'36 0°26'16	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44	9° \$\sigma^55'18 5° \$\sigma^58'54 3° \$\sigma^36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15	-1°27'38
inferior conj minimum elong asc. node morning rise direct morning max el	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49	19° 조 43'40 19° 조 54'05 19° 조 51'53 18° 조 18'29 14° 조 04'16 13° 조 07'23 16° 조 51'28 0° 중	-0°26'36 0°26'16	min. Earth dist. inferior conj minimum elong asc. node morning rise direct	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08	9° \$\tilde{\$755'18}\$ 5° \$\tilde{\$758'54}\$ 3° \$\tilde{\$743'30}\$ 3° \$\tilde{\$736'18}\$ 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\tilde{\$753'08}\$ 28° \$\tilde{\$746'38}\$	-1°27′38 1°26′33
inferior conj minimum elong asc. node morning rise direct morning max el	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59	21°¾43'40 19°¾54'05 19°¾51'53 18°¾18'29 14°¾04'16 13°¾07'23 16°¾51'28 0°♂ 18°♂20'23	-0°26'36 0°26'16	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44	9° \$\stack*\footnote{3}55'18 5° \$\stack*\footnote{3}58'54 3° \$\stack*\footnote{3}36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\stack*\footnote{3}53'08	-1°27′38 1°26′33
inferior conj minimum elong asc. node morning rise direct morning max el	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55	21° ¾43'40 19° ₰51'53 18° ₰18'29 14° ₰04'16 13° ₰07'23 16° ₰51'28 0° ℧ 18° ℧20'23 18° ℧20'08	-0°26'36 0°26'16	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09	9° \$\tilde{\$755'18}\$ 5° \$\tilde{\$758'54}\$ 3° \$\tilde{\$743'30}\$ 3° \$\tilde{\$736'18}\$ 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\tilde{\$753'08}\$ 28° \$\tilde{\$746'38}\$	-1°27′38 1°26′33
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41	21°¾43'40 19°¾54'05 19°¾51'53 18°¾18'29 14°¾04'16 13°¾07'23 16°¾51'28 0°♂ 18°♂20'23 18°♂20'08 0°≈	-0°26'36 0°26'16 18°51'03	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12	9°\$\st\$55'18 5°\$\st\$58'54 3°\$\st\$43'30 3°\$\st\$36'18 30°\$\mathred{m}\$129°\m\$18'43 28°\m\$05'30 27°\m\$23'15 0°\$\st\$53'08 28°\$\st\$46'38 0°\$\st\$	-1°27′38 1°26′33
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41	21°¾43'40 19°¾54'05 19°¾51'53 18°¾18'29 14°¾04'16 13°¾07'23 16°¾51'28 0°♂ 18°♂20'23 18°♂20'08 0°≈	-0°26'36 0°26'16 18°51'03	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12	9°\$\st\$55'18 5°\$\st\$58'54 3°\$\st\$43'30 3°\$\st\$36'18 30°\$\mathred{m}\$129°\m\$18'43 28°\m\$05'30 27°\m\$23'15 0°\$\st\$53'08 28°\$\st\$46'38 0°\$\st\$	-1°27'38 1°26'33
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist.	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41 5269 Feb 01 00:38	21° 🗷 43'40 19° 🗷 54'05 19° 🗷 51'53 18° 🗷 18'29 14° 🗷 04'16 13° 🗷 07'23 16° 🗷 51'28 0° 云 18° 云 20'23 18° 云 20'08 0° ≈ 11° ≈ 56'33	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55	9° ላ 55'18 5° ላ 58'54 3° ላ 43'30 3° ላ 36'18 30° R M 29° M 18'43 28° M 05'30 27° M 23'15 0° ላ 0° ላ 53'08 28° ላ 46'38 0° ጜ 8° ጜ 56'02	-1°27'38 1°26'33 18°13'32
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41 5269 Feb 01 00:38	21° 🗷 43'40 19° 🗷 54'05 19° 🗷 51'53 18° 🗷 18'29 14° 🗷 04'16 13° 🗷 07'23 16° 🗷 51'28 0° 云 18° 云 20'23 18° 云 20'08 0° ≈ 11° ≈ 56'33	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55	9° \$\times^55'18 5° \$\times^58'54 3° \$\times^43'30 3° \$\times^36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\times^55'08 28° \$\times^46'38 0° \$\times^556'02 22° \$\times^55'24	-1°27'38 1°26'33 18°13'32
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22	21° **43'40 19° **754'05 19° **751'53 18° **718'29 14° **704'16 13° **707'23 16° **751'28 0° **520'23 18° **520'08 0° **≈ 11° **56'33 14° **10'17 13° **33'40	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 28 13:09 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04	9° \$\times^55'18 5° \$\times^58'54 3° \$\times^43'30 3° \$\times^36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\times^7 0° \$\times^55'08 28° \$\times^46'38 0° \$\times^656'02 22° \$\times^55'24 22° \$\times^51'24 22° \$\times^52'21	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14	21° **43'40 19° **754'05 19° **751'53 18° **718'29 14° **704'16 13° **707'23 16° **751'28 0° *5 18° *520'23 18° *520'08 0° *≈ 11° *≈56'33 14° *≈10'17 13° *≈33'40 0° *€	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 28 13:09 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47	9°\$\sigma 55'18 5°\$\sigma 58'54' 3°\$\sigma 43'30 3°\$\sigma 36'18 30°\$\mathbb{m}\$ 29°\mathbb{m} 18'43 28°\mathbb{m} 05'30 27°\mathbb{m} 23'15 0°\$\sigma 53'08 28°\$\sigma 46'38 0°\$\sigma 8°\sigma 56'02 22°\sigma 55'02 22°\sigma 52'124 22°\sigma 23'21 26°\sigma 21'56	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25
inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26	21° **43'40 19° **754'05 19° **751'53 18° **718'29 14° **704'16 13° **707'23 16° **751'28 0° *5 18° *520'23 18° *520'08 0° *≈ 11° **≈56'33 14° **≈10'17 13° **≈33'40 0° ** 8° **×27'46	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18	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.	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 28 13:09 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27	9° ₹55'18 5° ₹58'54 3° ₹43'30 3° ₹36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° ₹ 53'08 28° ₹46'38 0° ₹ 8° ₹556'02 22° ₹551'24 22° ₹23'21 26° ₹21'56 0° ≈	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25
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	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26 5269 Mar 03 05:04	21° **43'40 19° **754'05 19° **751'53 18° **718'29 14° **707'23 16° **751'28 0° **520'23 18° **520'08 0° **≈11° **≈56'33 14° **≈10'17 13° **≈33'40 0° ** 8° **£27'46 0° *¥	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18	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	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27 5270 Jan 28 19:35	9° ₹55'18 5° ₹58'54 3° ₹43'30 3° ₹36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° ₹53'08 28° ₹46'38 0° ₹556'02 22° ₹55'24 22° ₹52'21'26 0° ≈ 18° ≈13'05	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25
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 asc. node	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26 5269 Mar 03 05:04 5268 Dec 10 08:38	19° ¾3'40 19° ¾54'05 19° ¾51'53 18° ¾18'29 14° ¾04'16 13° ¾07'23 16° ¾51'28 0° ℧ 18° ℧20'23 18° ℧20'08 0° ≈ 11° ≈56'33 14° ≈10'17 13° ≈33'40 0° 升 8° 升27'46 0° か 8° ¥27'46	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18 1°38'26	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 greatest brilliancy	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27 5270 Jan 28 19:35 5270 Feb 05 09:18	9° ₹55'18 5° ₹58'54 3° ₹43'30 3° ₹36'18 30° RM 29° M.18'43 28° M.05'30 27° M.23'15 0° ₹53'08 28° ₹46'38 0° ₹556'02 22° ₹55'24 22° ₹523'21 26° ₹21'56 0° ≈ 18° ≈ 13'05 0° ₹	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25 1.45290 AU
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 asc. node evening max el retrograde	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 16 22:55 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26 5269 Mar 03 05:04 5269 Mar 09 15:18 5269 Mar 10 10:59	19° ¾ 43'40 19° ¾ 54'05 19° ¾ 51'53 18° ¾ 18'29 14° ¾ 04'16 13° ¾ 07'23 16° ¾ 51'28 0° ♂ 18° ♂ 20'23 18° ♂ 20'08 0° ≈ 11° ≈ 56'33 14° ≈ 10'17 13° ≈ 33'40 0° 升 8° 升 27'46 0° か 8° Ŷ 32'46 9° Ŷ 24'44	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18 1°38'26	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	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 08 18:08 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27 5270 Jan 28 19:35 5270 Feb 05 09:18 5269 Nov 27 17:43 5270 Feb 09 15:54	9° \$\frac{3}55'18 5° \$\frac{3}58'54 3° \$\frac{3}43'30 3° \$\frac{3}36'18 30° RML 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\frac{3}53'08 28° \$\frac{3}46'38 0° \$\frac{3}8''35'6'02 22° \$\frac{5}51'24 22° \$\frac{2}523'21 26° \$\frac{2}21'56 0° \$\frac{3}8''33'49 22° \$\frac{5}56'16	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25 1.45290 AU -0.7m
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 asc. node evening max el retrograde evening set	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26 5269 Mar 03 05:04 5269 Mar 09 15:18 5269 Mar 10 10:59 5269 Mar 17 01:41	21° **43'40 19° **754'05 19° **751'53 18° **718'29 14° **707'23 16° **751'28 0° **520'23 18° **520'08 0° **≈ 11° **56'33 14° ***10'17 13° **33'40 0° ** 8° ***12'46 0° ** 9° **724'44 13° **704'09	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18 1°38'26	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 greatest brilliancy evening max el asc. node	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27 5270 Jan 28 19:35 5270 Feb 05 09:18 5270 Feb 09 15:54 5270 Feb 21 19:00	9°水55'18 5°水58'54 3°水43'30 3°水36'18 30°RM 29°M18'43 28°M05'30 27°M23'15 0°水 0°水53'08 28°水46'38 0°♂ 8°♂56'02 22°♂51'24 22°♂23'21 26°♂21'56 0°≈ 18°≈13'05 0°米 6°升33'49 22°升56'16 25°升20'04	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25 1.45290 AU -0.7m
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 asc. node evening max el retrograde evening set inferior conj	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26 5269 Mar 03 05:04 5269 Mar 09 15:18 5269 Mar 10 10:59 5269 Mar 17 01:41 5269 Mar 20 06:35 5269 Mar 25 23:12	21° **43'40 19° **754'05 19° **751'53 18° **718'29 14° **704'16 13° **707'23 16° **751'28 0° **520'23 18° **520'08 0° ** 11° **56'33 14° ***10'17 13° **33'40 0° ** 8° ***12'46 0° **Y 8° **Y 32'46 9° **Y 24'44 13° **Y 04'09 12° **Y 05'45	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18 1°38'26	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 greatest brilliancy evening max el asc. node retrograde	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27 5270 Jan 28 19:35 5270 Feb 05 09:18 5270 Feb 09 15:54 5270 Feb 21 19:00 5270 Feb 24 12:20 5270 Feb 28 22:23	9° \$\frac{3}55'18 5° \$\frac{3}58'54 3° \$\frac{3}43'30 3° \$\frac{3}36'18 30° RML 29° M.18'43 28° M.05'30 27° M.23'15 0° \$\frac{3}53'08 28° \$\frac{3}46'38 0° \$\frac{3}8''35'6'02 22° \$\frac{5}51'24 22° \$\frac{2}523'21 26° \$\frac{2}21'56 0° \$\frac{3}8''33'49 22° \$\frac{5}56'16	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25 1.45290 AU -0.7m
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 asc. node evening max el retrograde evening set	5268 Dec 08 21:38 5268 Dec 10 08:51 5268 Dec 10 09:34 5268 Dec 11 16:02 5268 Dec 16 04:01 5268 Dec 19 07:45 5268 Dec 26 02:44 5269 Jan 05 02:49 5269 Jan 16 22:59 5269 Jan 24 09:41 5269 Feb 01 00:38 5269 Feb 02 10:40 5269 Feb 02 01:22 5269 Feb 12 10:14 5269 Feb 17 16:26 5269 Mar 03 05:04 5269 Mar 09 15:18 5269 Mar 10 10:59 5269 Mar 17 01:41 5269 Mar 20 06:35	21°¾43'40 19°¾54'05 19°¾51'53 18°¾18'29 14°¾04'16 13°¾07'23 16°¾51'28 0°♂ 18°♂20'23 18°♂20'08 0°≈ 11°≈56'33 14°≈10'17 13°≈33'40 0°升 8°升27'46 0°ጕ 8°升32'46 9°ጕ24'44 13°ጕ04'09 12°ጕ05'45 6°ጕ28'30	-0°26'36 0°26'16 18°51'03 1.45186 AU -1°39'18 1°38'26 18°40'10	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 greatest brilliancy evening max el asc. node	5269 Nov 18 07:03 5269 Nov 22 06:32 5269 Nov 24 05:30 5269 Nov 24 07:59 5269 Nov 27 17:43 5269 Nov 28 13:06 5269 Nov 30 09:53 5269 Dec 03 04:35 5269 Dec 09 16:44 5269 Dec 28 13:09 5269 Dec 29 07:12 5270 Jan 03 19:55 5270 Jan 12 14:12 5270 Jan 12 07:04 5270 Jan 14 19:47 5270 Jan 17 03:27 5270 Jan 28 19:35 5270 Feb 05 09:18 5270 Feb 09 15:54 5270 Feb 21 19:00 5270 Feb 24 12:20	9°水55'18 5°水58'54 3°水43'30 3°水36'18 30°RM 29°M18'43 28°M05'30 27°M23'15 0°水53'08 28°水46'38 0°♂8 8°♂56'02 22°♂51'24 22°♂23'21 26°♂21'56 0°≈ 18°≈13'05 0°米 6°米33'49 22°米56'16 25°米20'04 27°米01'27	-1°27'38 1°26'33 18°13'32 -0°58'22 0°57'25 1.45290 AU -0.7m 19°23'20

minimum elong min. Earth dist.	5270 Mar 09 20:24 5270 Mar 11 05:10	20° 米 01'51 18° 米 15'08	3°21'01 0.66521 AU	minimum elong min. Earth dist.	5271 Feb 21 23:48 5271 Feb 22 19:21	3°) 44′21 2°) 37′50	2°58'22 0.67465 AU
morning rise	5270 Mar 15 05:59	13°) (41'41			5271 Feb 24 19:42	30° R ≈	
direct	5270 Mar 21 11:30	10°) 55'44		morning rise	5271 Feb 27 06:07	27° ≈ 22'22	
desc. node	5270 Apr 01 19:10	17° ℋ 12'48		direct	5271 Mar 04 22:36	24° ≈ 49'59	
morning max el	5270 Apr 02 23:58	18°) €23'42	25°57'56		5271 Mar 14 15:21	0°) €	
	5270 Apr 12 18:51	$0^{\circ}\mathbf{\Upsilon}$		morning max el	5271 Mar 16 08:36	1°) 39′53	24°34'50
	5270 May 02 11:01	9° 8		desc. node	5271 Mar 19 16:10	5° 升 15'15	
morning set	5270 May 09 04:01	11° 8 55'36			5271 Apr 06 19:46	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	5270 May 13 00:50	19° 8 13'21	1.35465 AU	morning set	5271 Apr 21 07:43	23° Y 45′27	
					5271 Apr 24 19:32	0° 8	
superior conj	5270 May 18 09:43	29° 8 50'34		max. Earth dist.	5271 Apr 24 22:44	0° 8 14'35	1.37440 AU
minimum elong	5270 May 18 12:30	0° Ⅱ 04'42	0°49'48		5071.14 01 17 41	120 400127	1010124
asc. node	5270 May 18 11:35	0°Ⅲ 10°Ⅲ16'13		superior conj	5271 May 01 17:41	13° 8 00'37	
evening rise	5270 May 23 11:37 5270 May 26 06:35	16° I I01'33		minimum elong evening rise	5271 May 01 22:02 5271 May 10 08:11	13 О 21 43 0° П 03'18	1 1830
evening rise	5270 Jun 02 10:19	0°9		asc. node	5271 May 10 08:11 5271 May 10 08:38	0° П 05'31	
evening max el	5270 Jun 13 10:15	15° © 37'54	20°19'08	use. Hode	5271 May 10 00:30	0°II	
retrograde	5270 Jun 24 06:15	20°956'10	20 17 00	evening max el	5271 May 27 02:41	27° Ⅱ 18'29	19°16'03
evening set	5270 Jun 26 05:10	20°5946'32		<i>y</i>	5271 May 30 11:27	0ಂತಾ	
desc. node	5270 Jun 28 18:24	20° © 07'08		retrograde	5271 Jun 05 05:27	1° 5 45'46	
inferior conj	5270 Jul 05 08:58	16°5948'35	-1°57'53	evening set	5271 Jun 07 04:45	1°534'10	
minimum elong	5270 Jul 05 03:27	16°956'40	1°55'54		5271 Jun 11 10:43	30° Ŗ Ⅱ	
min. Earth dist.	5270 Jul 06 20:41	15° © 56'14	0.54997 AU	inferior conj	5271 Jun 15 16:10	27° Ⅱ 25′09	-0°00'35
morning rise	5270 Jul 14 00:33	12° © 36'32		minimum elong	5271 Jun 15 16:09	27° Ⅱ 25'12	
direct	5270 Jul 18 00:53	12° © 01'39		transit middle	5271 Jun 15 16:09	27° Ⅱ 25'12	0°00'35
morning max el	5270 Jul 31 12:54	18° © 36'05	23°40'32	transit begin	5271 Jun 15 12:18	27° Ⅲ 31'34	
_	5270 Aug 09 22:48	0°N		transit end	5271 Jun 15 19:59	27° Ⅱ 18'48	
asc. node	5270 Aug 19 10:55	16° Ω 19'27		desc. node	5271 Jun 15 15:24	27° II 26'26	0.56000 444
morning set	5270 Aug 24 11:23	26° Ω 33'14		min. Earth dist.	5271 Jun 18 11:00	25° Ⅲ 34'43 22° Ⅲ 39'12	0.56088 AU
	5270 Aug 26 02:11	0° т р		morning rise direct	5271 Jun 24 00:31 5271 Jun 28 22:34	21° II 43'35	
superior conj	5270 Aug 31 11:02	11° m 36'57	1°36'35	morning max el	5271 Jul 13 02:23	28° I I56'12	25°21'46
minimum elong	5270 Aug 31 09:25	11° mg 28'15	1°36'27	morning max er	5271 Jul 14 04:18	20 m 30 12	23 21 40
max. Earth dist.	5270 Sep 02 20:01	16° Mp 42'17	1.33308 AU		5271 Aug 03 08:12	$0^{\circ}\Omega$	
evening rise	5270 Sep 07 23:29	27° m 20'49		asc. node	5271 Aug 06 07:55	5° Ω 56'19	
C	5270 Sep 09 07:32	0∘ ⊽		morning set	5271 Aug 08 22:57	11° Ω 24'36	
desc. node	5270 Sep 24 17:41	26° ≏ 56′23					
	5270 Sep 26 18:40	0° M ₊		superior conj	5271 Aug 15 21:10	26° Ω 29'01	1°24'59
evening max el	5270 Oct 11 22:06	18°M38'30	27°23'48	minimum elong	5271 Aug 15 18:59	26° Ω 17'02	1°24'42
retrograde	5270 Oct 25 11:52	25°M56'52		max. Earth dist.	5271 Aug 17 02:02		1.32435 AU
evening set	5270 Nov 01 13:07	23°M18'40			5271 Aug 17 11:44	0°Щ	
min. Earth dist.	5270 Nov 05 07:06	19°M55'56	0.64144 AU	evening rise	5271 Aug 22 23:30	11° m 41'49	
inferior conj	5270 Nov 07 17:59	17°M21'34		J J.	5271 Sep 01 12:22	0° ⊽	
minimum elong	5270 Nov 07 22:23	17° M .09'59 11° M .58'17	2°29'28	desc. node	5271 Sep 11 14:42	16° ≏ 11'00 0° ™	
morning rise asc. node	5270 Nov 14 09:05 5270 Nov 15 10:08	11°M237'33		evening max el	5271 Sep 22 18:33 5271 Sep 24 07:24	1°M30'20	27°22'50
direct	5270 Nov 16 21:08	11°M26'44		retrograde	5271 Oct 08 02:24	8°M44'35	27 22 30
morning max el	5270 Nov 23 09:25	14°M51'45	17°53'06	evening set	5271 Oct 15 06:25	6°M18'25	
Č	5270 Dec 04 01:17	0° ∡ ¹		min. Earth dist.	5271 Oct 18 21:36		0.62342 AU
morning set	5270 Dec 10 07:38	10° ∡ ³36′13		inferior conj	5271 Oct 21 19:23	0° M 40'49	-3°33'53
desc. node	5270 Dec 21 16:56	29° ∡ 39'11		minimum elong	5271 Oct 22 01:21	0°M26'49	3°32'00
	5270 Dec 21 22:02	0°ರ			5271 Oct 22 12:54	30° ₹ Ω	
				morning rise	5271 Oct 28 22:03	25° ≏ 35'33	
superior conj	5270 Dec 23 08:23	2° る 19'38	-0°11'30	direct	5271 Oct 31 06:18	25° £ 11′03	
minimum elong	5270 Dec 23 07:04	2° ප 14'16	0°11'18	asc. node	5271 Nov 02 07:10	25° £ 30′06	
behind sun begin	5270 Dec 22 23:49	1° る 44'51		morning max el	5271 Nov 07 01:42	28° £ 39'18	17°50'34
behind sun end	5270 Dec 23 14:19	2°る43'39	1 44665		5271 Nov 08 08:06	0°M	
max. Earth dist.	5270 Dec 28 14:18	10°₹44'10	1.44665 AU	morning set	5271 Nov 23 00:15	23°M29'21	
evening rise	5271 Jan 08 07:50	27°る28'01 0°≈			5271 Nov 26 15:55	0° ≯ 7	
	5271 Jan 09 23:28 5271 Jan 30 10:41	0° ₩		superior conj	5271 Dec 04 04:03	13° ∡ '02'32	0°30'58
evening max el	5271 Feb 04 22:04	6° ∺ 29'57	20°21'37	minimum elong	5271 Dec 04 04:03 5271 Dec 04 06:50	13° x *0232 13° x *14'21	0°30'35
asc. node	5271 Feb 11 09:22	10° H 57'34	20 21 37	desc. node	5271 Dec 04 00:50 5271 Dec 08 13:58	20° × 25'43	3 30 33
retrograde	5271 Feb 12 20:35	11° X 09'05		max. Earth dist.	5271 Dec 00 15:58	24° × ⁷ 47'31	1.43387 AU
evening set	5271 Feb 16 17:16	9°)(42'47			5271 Dec 14 11:44	0°る	
inferior conj	5271 Feb 22 02:02	3°) (36′46	2°58'50	evening rise	5271 Dec 18 19:55	6° ප් 49'50	

	5272 Jan 03 06:50	0° ≈		retrograde	5273 Jan 10 13:42	9° ≈ 40'06	
evening max el	5272 Jan 18 19:42	20°≈04'57	21°31'54	evening set	5273 Jan 15 08:14	7°≈42'43	
retrograde	5272 Jan 27 18:11	25°≈23'00	21 3131	asc. node	5273 Jan 15 03:26	7°≈52'30	
asc. node	5272 Jan 29 06:24	25°≈10'50		inferior conj	5273 Jan 20 17:12		1°47'01
evening set	5272 Feb 01 01:02	23° ≈ 41'25		minimum elong	5273 Jan 20 15:05	1°≈26'30	1°46'16
inferior conj	5272 Feb 06 09:05	17° ≈ 24'59	2°26'58	min. Earth dist.	5273 Jan 20 10:23	1° ≈ 42'43	0.68133 AU
minimum elong	5272 Feb 06 06:41	17° ≈ 33'20	2°26'17		5273 Jan 21 16:14	30°Rる	
min. Earth dist.	5272 Feb 06 13:51	17°≈08′28	0.67996 AU	morning rise	5273 Jan 25 21:50	25° る 10'52	
morning rise	5272 Feb 11 12:09	11° ≈ 12'53		direct	5273 Jan 30 09:20	23° る 21'22	
direct	5272 Feb 16 14:11	9° ≈ 00'33		morning max el	5273 Feb 08 07:10	28° る 32'50	21°39'12
morning max el	5272 Feb 26 17:46	15° ≈ 01'43	23°05'32		5273 Feb 09 16:35	0° ≈	
desc. node	5272 Mar 05 13:12	24°≈08′50		desc. node	5273 Feb 20 10:15	13° ≈ 39'31	
	5272 Mar 09 22:22	0° ∀			5273 Mar 03 14:36	0° ∀	
	5272 Mar 29 19:16	0 ° \mathbf{Y}		morning set	5273 Mar 12 09:15	13° ¥ 37′50	
morning set	5272 Apr 01 10:44	4° Y 21′52		max. Earth dist.	5273 Mar 18 17:59		1.41766 AU
max. Earth dist.	5272 Apr 05 18:00	11° Y 40'16	1.39632 AU		5273 Mar 22 08:20	0 ° Υ	
superior conj	5272 Apr 13 10:46	25° Y 25′02		superior conj	5273 Mar 26 08:10	6° Y 52'27	
minimum elong	5272 Apr 13 15:50		1°44'52	minimum elong	5273 Mar 26 11:48	7° Y ′08′15	2°03'26
	5272 Apr 15 21:57	0°8		evening rise	5273 Apr 06 05:48	26° Y 29'37	
evening rise	5272 Apr 23 01:08	13° 8 35'32			5273 Apr 08 03:44	0°8	
asc. node	5272 Apr 26 05:40	19° 8 39'37		asc. node	5273 Apr 13 02:42	8° 8 52'45	
	5272 May 02 00:55	0°Ⅱ		evening max el	5273 Apr 22 14:26	22° 8 26'12	18°10'42
evening max el	5272 May 09 05:15		18°33'22	retrograde	5273 Apr 29 11:22	25° 8 54'26	
retrograde	5272 May 16 23:10	13° Ⅱ 27'08		evening set	5273 May 01 23:45	25° 8 27'08	
evening set	5272 May 19 04:41	13° Ⅱ 09'09	1025122	inferior conj	5273 May 08 21:01	20° 8 38'15	2°40'48
inferior conj	5272 May 26 20:01	8° Ⅱ 40'58	1°35'33	minimum elong	5273 May 09 00:20	20° 8 30'44	2°40'01
minimum elong	5272 May 26 23:05	8° Ⅱ 34'58	1°34'33 0.57875 AU	min. Earth dist.	5273 May 12 05:22	17° 8 37'21	0.60026 AU
min. Earth dist.	5272 May 30 05:05	6° Ⅱ 04'37 4° Ⅱ 29'47	0.5/8/5 AU	morning rise	5273 May 15 22:23	14° 8 51'10	
desc. node	5272 Jun 01 12:24 5272 Jun 03 14:16	3° П 29'47		desc. node direct	5273 May 19 09:27 5273 May 22 10:24	13° 8 17'09 12° 8 50'56	
morning rise direct	5272 Jun 03 14:16 5272 Jun 09 10:10	1° П 54'17			5273 May 22 10:24 5273 Jun 05 18:42	20° 8 44'18	27927156
morning max el	5272 Jun 23 19:18	9° П 32'02	26°45'22	morning max el	5273 Jun 13 18:32	20 Ο 44 18	21 31 30
morning max cr	5272 Jul 09 09:41	0°99	20 43 22		5273 Jul 02 07:12	0° ©	
morning set	5272 Jul 23 09:04	26° © 10'13		morning set	5273 Jul 02 07:12 5273 Jul 07 15:53	10° © 43'32	
asc. node	5272 Jul 23 04:57	25°948'34		asc. node	5273 Jul 10 01:59	15°950'03	
use. Houe	5272 Jul 25 04:10	0°Ω		max. Earth dist.	5273 Jul 13 23:47	24°\$20'01	1.31947 AU
	3272 Jul 23 01.10	V 00		max. Earth dist.	3273 Jul 13 23.17	21 32001	1.51717110
superior conj	5272 Jul 30 08:54	11° Ω 23'30	1°08'35	superior conj	5273 Jul 14 20:22	26°©13'23	0°47'56
minimum elong	5272 Jul 30 06:37	11° Ω 10'51	1°08'12	minimum elong	5273 Jul 14 18:27	26° © 02'49	
max. Earth dist.	5272 Jul 30 12:36	11° Ω 43'56	1.31983 AU	Č	5273 Jul 16 13:26	$0^{\circ}\Omega$	
evening rise	5272 Aug 06 05:38	26° Ω 19'12		evening rise	5273 Jul 21 15:29	11° Ω 04'29	
Č	5272 Aug 08 00:02	0° m		Č	5273 Jul 31 06:09	O° Mp	
	5272 Aug 25 02:32	0∘ ⊽		desc. node	5273 Aug 15 08:44	21° m 57'50	
desc. node	5272 Aug 28 11:42	4° ≏ 38'14		evening max el	5273 Aug 18 07:20	24° m 59'45	25°42'12
evening max el	5272 Sep 05 11:15	13° ≏ 40'16	26°48'29		5273 Aug 24 21:26	0∘ 亚	
retrograde	5272 Sep 19 08:59	20° ≏ 49'45		retrograde	5273 Sep 01 06:11	2° ഫ 05'31	
evening set	5272 Sep 26 06:42	18° ≏ 47'26		evening set	5273 Sep 07 09:01	0° £ 37'25	
min. Earth dist.	5272 Sep 30 01:16	16° ≏ 10′20	0.60326 AU		5273 Sep 08 14:37	30°R Mp	
inferior conj	5272 Oct 03 06:22	13° ≏ 32'30		min. Earth dist.	5273 Sep 11 19:24	28° m 00'37	0.58264 AU
minimum elong	5272 Oct 03 12:34	13° ≏ 19'46	4°28'30	inferior conj	5273 Sep 14 23:21	25° m 45'43	-5°09'03
morning rise	5272 Oct 10 20:28	8° ≏ 48'41		minimum elong	5273 Sep 15 03:04	25° m 39'05	5°08'41
direct	5272 Oct 13 04:12	8° ≏ 28'10		morning rise	5273 Sep 22 23:24	21° m 25'14	
asc. node	5272 Oct 19 04:12	10° ≏ 52'20		direct	5273 Sep 25 10:05	21°Mp06'21	
morning max el	5272 Oct 20 14:23	12° Ω 07'56	18°07'07	morning max el	5273 Oct 03 20:02	25° Mp 07'24	18°44'12
	5272 Nov 01 12:35	0°M		asc. node	5273 Oct 06 01:16	27° m/29'50	
morning set	5272 Nov 05 08:46	7° M 07'42			5273 Oct 08 00:13	0∘ ⊽	
	5070 N 15 01 15	0.40M #01#0	1002151	morning set	5273 Oct 20 04:17	21° Ω 16'20	
superior conj	5272 Nov 15 01:15	24°M59'59	1°03'51		5273 Oct 24 15:33	0°M	
minimum elong	5272 Nov 15 05:11		1°03'22		5272 0 + 20 10 05	70 m 57100	1027112
an at the	5272 Nov 17 21:02	0° ⊀ ⁷	1 41604 433	superior conj	5273 Oct 28 19:05	7°M57'03	1°26'13
max. Earth dist.	5272 Nov 22 17:02	8° ₹ 17'25	1.41604 AU	minimum elong	5273 Oct 28 22:16	8°M12'04	1°25'55
desc. node	5272 Nov 24 11:01	11° 🖈 12'32		max. Earth dist.	5273 Nov 04 23:12	21°M02'52	1.39532 AU
evening rise	5272 Nov 27 22:34	16° ≯ 53'58		evening rise	5273 Nov 08 23:11	27°M57'29	
	5272 Dec 06 07:40	ිදු 0°20		daga J-	5273 Nov 10 04:18	0° 🔏 1°.₹55!22	
evening max el	5272 Dec 28 02:44 5272 Dec 31 12:34	0° ≈ 3° ≈ 42'21	220/01/13	desc. node	5273 Nov 11 08:02 5273 Nov 29 20:33	1°矛55'22 0°궁	
evening max ci	3212 DCC 31 12.34	J ~~ +∠∠1	44 T7 TJ		3213 190V 27 20.33	υ O	

evening max el	5273 Dec 14 02:15	17° る 22'46	24000135	evening max el	5274 Nov 26 14:49	1° る 06'09	25024130
retrograde	5273 Dec 14 02:15 5273 Dec 25 05:56	23°ප්55'53	24 0933	retrograde	5274 Nov 20 14:49 5274 Dec 08 17:47	8° る 05'05	23 24 39
evening set	5273 Dec 25 05:50 5273 Dec 30 13:19	23° る 43'09		evening set	5274 Dec 08 17:47 5274 Dec 14 14:35	5° そ 38'53	
asc. node	5274 Jan 02 00:29	19° る 10'48		min. Earth dist.	5274 Dec 19 00:34	0°る46'42	0.67290 AU
min. Earth dist.	5274 Jan 04 06:44	16° ප 16'42	0.67889 AU	asc. node	5274 Dec 19 00:34 5274 Dec 19 21:33	29°×739'02	0.07270710
inferior conj	5274 Jan 05 00:32	15° ප 16'37	0°59'57	use. Hode	5274 Dec 19 21:95 5274 Dec 19 15:04	30°R. ₹	
minimum elong	5274 Jan 04 23:11	15° る 21'13	0°59'24	inferior conj	5274 Dec 20 05:18	29°×713'59	0°06'35
morning rise	5274 Jan 10 09:07	9° ට 13'41	0 0 , 2 .	minimum elong	5274 Dec 20 05:08	29°×14'32	0°06'32
direct	5274 Jan 14 06:57	7° る 46'43		transit middle	5274 Dec 20 05:08	29°×11'32	0°06'32
morning max el	5274 Jan 22 03:43	12° る 15'49	20°22'41	transit begin	5274 Dec 20 02:34	29° х 22'48	
	5274 Feb 04 20:06	0°≈		transit end	5274 Dec 20 07:41	29° х 06′17	
desc. node	5274 Feb 07 07:19	3°≈37'04		morning rise	5274 Dec 25 19:59	23° х 18'31	
morning set	5274 Feb 19 09:24	21°≈56'09		direct	5274 Dec 29 05:44	22° х 11′39	
. 8	5274 Feb 24 13:16	0°) €		morning max el	5275 Jan 05 08:06	26° ₹ '09'09	19°19'55
max. Earth dist.	5274 Mar 01 01:11	7°) €09'30	1.43555 AU		5275 Jan 08 17:56	0°ಕ	
				greatest brilliancy	5275 Jan 18 15:08	13° る 54'27	-0.7m
superior conj	5274 Mar 07 05:22	17°) 13′53	-2°08'50	desc. node	5275 Jan 25 04:20	23° る 53'32	
minimum elong	5274 Mar 07 04:18	17°) €09'29		morning set	5275 Jan 29 08:28	0° ≈ 20'04	
	5274 Mar 14 18:48	$_{0}$ ° γ		3	5275 Jan 29 03:17	0° ≈	
evening rise	5274 Mar 19 17:53	8° Ƴ 36'40		max. Earth dist.	5275 Feb 11 14:49	21°≈02'25	1.44787 AU
asc. node	5274 Mar 30 23:45	27° Ƴ 38'26					
	5274 Apr 01 13:51	0°8		superior conj	5275 Feb 15 01:33	26° ≈ 30'17	-1°55'50
evening max el	5274 Apr 06 02:53	5° 8 36'13	18°07'30	minimum elong	5275 Feb 14 18:13	26° ≈ 01'06	1°55'22
retrograde	5274 Apr 12 14:01	8° 8 58'17			5275 Feb 17 06:04	0° ∀	
evening set	5274 Apr 15 08:48	8° 8 19'51		evening rise	5275 Mar 01 08:56	19° ¥ 47'40	
inferior conj	5274 Apr 21 15:57	3° 8 11'14	3°17'33	C	5275 Mar 07 12:22	$0^{\circ}\mathbf{Y}$	
minimum elong	5274 Apr 21 17:59	3° 8 05'58	3°17'17	asc. node	5275 Mar 17 20:48	15° Ƴ 47'18	
min. Earth dist.	5274 Apr 24 14:04	0° 8 10'25	0.62214 AU	evening max el	5275 Mar 20 15:35	18° Ƴ 59'12	18°23'05
	5274 Apr 24 18:17	30° Ŗ ♈		retrograde	5275 Mar 27 02:30	22° Y ′28'37	
morning rise	5274 Apr 28 01:33	27° Ƴ 08'11		evening set	5275 Mar 30 03:37	21° Y '37'47	
direct	5274 May 04 21:21	24° Ƴ 38'57		inferior conj	5275 Apr 05 00:33	16° Ƴ 10'45	3°31'48
desc. node	5274 May 06 06:30	24° Y 44'39		minimum elong	5275 Apr 05 00:57	16° Y ′09'35	3°31'48
	5274 May 16 03:30	0° ႘		min. Earth dist.	5275 Apr 07 08:00	13° Y '31'03	0.64190 AU
morning max el	5274 May 19 00:08	2° 8 39'36	27°52'57	morning rise	5275 Apr 10 21:27	9° Y 59'47	
	5274 Jun 08 04:22	$\Pi^{\circ}0$		direct	5275 Apr 17 16:39	7° Υ 13'28	
morning set	5274 Jun 21 17:27	24° Ⅲ 58'32		desc. node	5275 Apr 23 03:32	8° Y 43'09	
	5274 Jun 24 03:53	0°€		morning max el	5275 May 01 09:05	15° Ƴ 11'09	27°31'14
asc. node	5274 Jun 26 23:02	5°\$56'29			5275 May 13 11:31	0°B	
max. Earth dist.	5274 Jun 27 07:36	6° © 42'34	1.32341 AU		5275 May 31 20:59	Π $^{\circ}0$	
				morning set	5275 Jun 05 11:11	8° Ⅱ 47'05	
superior conj	5274 Jun 29 05:53	10° © 53'31	0°23'37	max. Earth dist.	5275 Jun 10 08:06	18° Ⅱ 39'56	1.33191 AU
minimum elong	5274 Jun 29 04:48	10° © 47'38	0°23'23				
evening rise	5274 Jul 06 03:07	25° © 51'33		superior conj	5275 Jun 13 11:30	25° Ⅱ 17'33	-0°03'43
	5274 Jul 08 02:17	$0^{\circ}\Omega$		minimum elong	5275 Jun 13 11:41	25° Ⅱ 18'34	0°03'42
	5274 Jul 25 19:32	O° Mp		behind sun begin	5275 Jun 13 06:24	24° Ⅲ 50′21	
evening max el	5274 Jul 30 20:56	5° Mp36′32	24°12'45	behind sun end	5275 Jun 13 16:59	25° Ⅱ 46'49	
desc. node	5274 Aug 02 05:44	7° ™ 43'08		asc. node	5275 Jun 13 20:05	26° Ⅱ 03'24	
retrograde	5274 Aug 13 16:13	12° Mp 33'35			5275 Jun 15 16:13	0 \circ \odot	
evening set	5274 Aug 18 10:54	11° Mp 42'53		evening rise	5275 Jun 20 14:37	10° © 34'08	
min. Earth dist.	5274 Aug 24 07:41	8° № 47'27	0.56435 AU		5275 Jun 30 15:01	0 $^{\circ}$ Ω	
inferior conj	5274 Aug 26 20:07	7° Mp 13′20	-5°16'15	evening max el	5275 Jul 12 10:14	15° Ω 56'54	22°35'02
minimum elong	5274 Aug 26 18:03	7° Mp 16′34	5°16'08	desc. node	5275 Jul 20 02:44	21° Ω 20'44	
morning rise	5274 Sep 04 03:42	3° Mp 13′21		retrograde	5275 Jul 25 13:30	22° Ω 29'04	
direct	5274 Sep 06 20:37	2° m 54'05		evening set	5275 Jul 28 19:43	22° Ω 05'46	
morning max el	5274 Sep 16 15:28	7° m ,28'14	19°43'05	min. Earth dist.	5275 Aug 05 17:48	18° Ω 37'37	
asc. node	5274 Sep 22 22:19	15° Mp 07'39		inferior conj	5275 Aug 06 22:33	17° Ω 56'43	
	5274 Oct 01 09:48	0∘ ত		minimum elong	5275 Aug 06 14:40	18° Ω 07'57	4°33'55
morning set	5274 Oct 04 07:17	5° £ 45'51		morning rise	5275 Aug 15 11:36	14° Ω 06'46	
				direct	5275 Aug 18 13:41	13° Ω 44'55	
superior conj	5274 Oct 12 04:14	21° ≏ 38'47		morning max el	5275 Aug 29 22:40	19° Ω 03′08	21°03'24
minimum elong	5274 Oct 12 05:56	21° ≏ 47'13	1°38'51		5275 Sep 07 15:37	0° m)	
	5274 Oct 16 11:29	0°M₊		asc. node	5275 Sep 09 19:21	3°m/32'03	
max. Earth dist.	5274 Oct 18 03:55	3°M10'16	1.37435 AU	morning set	5275 Sep 18 15:12	20° m 29'07	
evening rise	5274 Oct 21 22:10	10°M02'05			5275 Sep 23 04:31	0∘ ⊽	
desc. node	5274 Oct 29 05:03	22°M30'19					
	5274 Nov 02 21:43	0° ∡ ″		superior conj	5275 Sep 26 00:19	5° Ω 52'26	1°43'23
	5274 Nov 25 12:25	0°る		minimum elong	5275 Sep 26 00:29	5° ≏ 53'20	1°43'23

page 95

Section Sect	max. Earth dist. evening rise	5275 Sep 30 13:14 5275 Oct 04 16:03 5275 Oct 08 11:57	15° £ 02'58 22° £ 59'08 0° M	1.35542 AU	superior conj minimum elong max. Earth dist.	5276 Sep 09 03:51 5276 Sep 09 02:46 5276 Sep 12 06:54	20° My 27'11 20° My 21'27 27° My 02'09	1°40'49 1°40'46 1.34002 AU
retograde of 275 Nov 2 0024 02790270 of 270020 of 275 Nov 2 0014 1978270 of 275 Nov 2 0014 1978 1870270 of 275 Nov 2 0014 1978 1870270 of 275 Nov 2 0014 1978 1870270 of 275 Nov 2 014 1978 1870270 of	desc. node	5275 Oct 16 02:02	12°M52'45			5276 Sep 13 17:24	0∘ ⊽	1.54002 110
cening seld S278 Nov 28 1014 19°29/20 66-64 AU clongman 577 Oct 21 16.25 CP210 67°20 19°20 <td>evening max el</td> <td>5275 Nov 09 03:41</td> <td>14°₹49'14</td> <td>26°27'30</td> <td></td> <td>5276 Sep 30 02:46</td> <td>0°M</td> <td></td>	evening max el	5275 Nov 09 03:41	14° ₹ 49'14	26°27'30		5276 Sep 30 02:46	0° M	
min Indiadi \$255 Dec 90 1329 \$789021 0.664 54 0-75000 ceruingrade \$275 Nov 04 1005 \$278 9941 initianidence \$275 Dec 04 6658 11790188 0*1212 evening set \$276 Nov 10 105 \$278 9941 morning \$275 Dec 06 10 4623 1792250 min Earth dist \$276 Nov 14 1904 \$978 191 morning mace \$275 Dec 10 4023 792250 min Earth dist \$276 Nov 14 1904 \$978 191 morning mace \$275 Dec 10 402 2227 179250 miniman effect \$276 Nov 12 103 \$978 191 102 morning set \$276 Jun 02 2227 1795 miniman effect \$276 Nov 22 1074 \$218 102 gesc. rode \$276 Jun 02 2225 9*8 morning set \$276 Nov 22 1074 \$218 102 specific conj \$275 Jun 02 225 0*8 morning set \$276 Dec 20 804 \$274 102 specific conj \$276 Jun 02 227 0*9 1222 20 morning set \$276 Dec 20 804 \$274 102 specific conj \$276 Jun 22 25 0*9 1222 20 \$276 Dec 20 20	retrograde	5275 Nov 22 00:24	22° ₹ 02'20		desc. node	5276 Oct 01 23:02	2°M55'53	
inferior conj S275 Dec 04 of 0.53 13°P0818 0°S200 decenting and minimum clong 2275 Dec 06 18.36 19°P0782 certain continued 2275 Dec 06 18.36 10°P1720 certain continued 2275 Nov 10 12.03 20°R081 0°S00 0°S00 <t< td=""><td>•</td><td></td><td></td><td></td><td>evening max el</td><td></td><td></td><td>27°10'40</td></t<>	•				evening max el			27°10'40
mummondong S252 be 0 8 6.08 379/038 0°5102 evening see 5276 bor 10 120 278 bor 10 1812 18 1175 0.8581 bor 10 1813 19 79/129 morning rise 2575 bor 10 1943 10°74929 183258 mine Earth dist 5276 Nov 14 1904 28°18,178 18528 1812 2576 Nov 16 2301 26°18,278 18528 mine interior onj 2576 Nov 16 2301 26°18,478 18528 minimam cong 2576 Nov 16 20 26°18,478 18528 minimam cong 2576 Nov 12 70 27°18,127 21°18,127 1872 1872 1872 27°18,127 21°18,127 1872 1872 1872 27°18,127 21°18,127 21°18,127 21°18,127 27°18,127 21°18,127 28°								
see note 0 527 Dec 10 618-16 10°-81'220' or min Earth dist. 527 No. 10 620' dis 7.00' 50' 60' 47' 10' 10' 10' 10' 10' 10' 10' 10' 10' 10	,				•			
maring maring \$275 ber 0.423 \$\circ \circ \cir	_			0°51'21	evening set			
amouning many and morning many and problems of signature of the problems of signature of signature of the problems of signature of the problems of signature of the problems of signature o					i matra			0.65047.444
19.20 19.20 19.14 19.20 19.	•							
1 morning set 327				10022150	,			
morning seld S276 Jan 19 0 542 bees noted 975 Jan 12 12012 bees noted 4°B 2575 Jan 12 2012 bees noted direct 5276 Nov 22 3238 bees 100 morning max 2076 Nov 22 3238 bees 100 morning max 18°02 Nov 22 3238 bees 100 morning max 2076 Nov 20 10 morning max 2076 Now 20 10 morning max 2076 Now 20 10 morning max 2076 Now 20	morning max er			16 32 36	Č			1 33 01
desc. node \$176 Jan 1 2 10:20 14°E 2755 S Mere of the properties	morning set							
specific conj 276 Jan 21 25.29 0%ex	•				•			
supciror on protection of the protection of	dese. Hode							18°02'44
superior conj 576 Jan 25 05.50 5°80,979 1°2226 morning mote 5276 Dec 29 03.70 0°3.70 set 1°2224 secunde 5276 Dec 28 1203 0°3.70 set 1°3.70 set 1		3270 Jun 21 22.32	0 721		morning max cr			10 02 44
minimum elong 276 Jan 24 20.37 4"8-33'3l 1"2224 occasional section 5276 Dec 28 29.20 6"5"03'33' "Total part of the p	superior coni	5276 Jan 25 05:50	5°≈09'39	-1°23'26	morning set			
anx Earth dist 576 Feb 1 0 0039 5°8-23'3 0 14329 N desc. node 576 Feb 2 2 2:02 5°5-03'23					morning sec			
evening rise 5276 Feb 10 00.39 0°H0153 greatest brillianey 5276 Feb 18 20.011 0°H minimum clong 5277 Jan 03 0842 13°G4008 0°3750 evening max el 5276 Feb 18 22 02.037 0°W minimum clong 5277 Jan 10 10 444 19°G509 145121 AU evening max el 5276 Mar 03 01.59 2°W°2924 18°S631 evening rise 5277 Jan 10 10 40 0°%8310 145121 AU evening grad 5276 Mar 13 04.59 18°S631 evening rise 5277 Jan 10 10 40 0°%1830 0°M evening grad 5276 Mar 18 04.39 3°WRY evening rise 5277 Feb 10 2110 0°H1830 0°M inferior conj 5276 Mar 18 109.30 3°WRY evening max cl 5277 Feb 10 2110 0°H1830 0°M minimum clong 5276 Mar 18 180.00 2°9*H308 3°2854 retorgrade 5277 Feb 12 118.41 2°9*H308 3°8*S9 acceptade 5277 Feb 12 118.41 2°9*H308 3°1299 direct 5276 Mar 24 6°50 2°9*H1852 minimum clong 5277 Mar 02 12.95 13°4003	e e		5°≈22'32	1.45329 AU	desc. node			
greatest brillianey 5276 Feb 10 00.11 0°H superior conj 5277 Jan 03 03.24 14°56/55 07820 0°R30 greatest brillianey 5276 Feb 29 20.37 16°P minimum elong 5277 Jan 03 03.842 19°E5(49) 14512 JAU evening max el 5276 Mar 03 01.59 2°P°P2974 18°5631 5277 Jan 10 10.64 0°PK evening rase 5276 Mar 13 04.59 3°P°1400 greatest brillianey 5277 Feb 10 01.11 0°H 5276 Mar 18 04.93 3°P°1400 3°P\$4 100 greatest brillianey 5277 Feb 10 11.10 0°H 0°H inferior conj 5276 Mar 18 190.5 3°P\$4304 3°2850 asc. node 5277 Feb 12 18.41 20°H 20°H 20°H 20°H 20°H 20°H 20°H 20°H	evening rise	5276 Feb 10 00:39	0° ₩ 01'53					
centing max el 5276 Feb 29 29.37 6°P max. Earth dist. 5277 Jun 07 04.54 19°E5049 1.4512 IAU evening max el 5276 Mar 13 01.59 2°P2924 18°5631 evening rise 5277 Jun 19 20.07 9°≈83106 retrograde 5276 Mar 09 21.03 6°P1806 5277 Jun 19 20.07 9°≈83106 0°H1806 5276 Mar 13 04.59 5°P01400 5277 Jun 19 20.07 9°≈83106 0°H1830 0.77 0°H1830 0.77 0°H1830 0.07 9°≈83106 0°H1830 0.07 0°H2830 0.07 0°H1830 0°H1830 0.07 0°H1830	-	5276 Feb 10 00:11	0°) €		superior conj	5277 Jan 03 13:26	14° පි 04'55	-0°38'30
cvening max cl 5276 Mar 03 01:59 2°P(2924) 18°5631 evening rise 5277 Jan 19 20:07 % % % 1 asc. node 5276 Mar 03 17:50 3°P(0822) evening rise 5277 Fab 0 021:03 6°P(1806) evening set 5276 Mar 18 09:31 3°P(1400) evening max 5277 Feb 02 11:10 0°P41830 0.7m inferior conj 5276 Mar 18 19:05 29°H(300) 3°2859 asc. node 5277 Feb 1 40:00 16°H(022) 19°46220 minimum clong 5276 Mar 18 18:06 29°H(300) 3°2859 asc. node 5277 Feb 2 118:41 90°H(2045) 19°H(2026) minimum clong 5276 Mar 24 0:50 23°H(318) 0.6580 AU evening set 5277 Feb 2 118:41 90°H(2045) 19°H(2026) morning fright 5276 Mar 24 0:50 23°H(315) 0.6580 AU evening set 5277 Mar 02 10:20 13°H(007) 31229 direct 5276 Mar 24 0:50 23°H(318) 0.6983 AU evening set 5277 Mar 02 10:30 19°H(026) 19°H(026) 19°H(027) 19°H(026) 19°H(026) 19°H(026) 19°H(026)	greatest brilliancy	5276 Feb 18 23:16	14°) (13′05	-0.8m	minimum elong	5277 Jan 03 08:42	13° ⋜ 46′08	0°37'50
asc, node \$276 Mar 03 17.50 3°P(082) evening rise \$277 Jar 19 20.07 9°831'06 CPT		5276 Feb 29 20:37	0 ° Υ		max. Earth dist.	5277 Jan 07 04:54	19° る 50'49	1.45121 AU
retrograde	evening max el	5276 Mar 03 01:59	2° Y 29'24	18°56'31		5277 Jan 13 16:41	0° ≈	
evening set 5276 Mar 18 04.59 5°P(1400) greatest brilliamy 5277 FRE 02 11:10 0°P(18'00) 0.79 inferior conj 5276 Mar 18 19:03 29°P(3004) 3°2859 asc. node 5277 FRE 14 18:04 0°P(20°P) minimum elong 5276 Mar 18 18:06 29°P(3308) 3°2854 retrograde 5277 FRE 21 18:41 20°P(20°P) minimum elong 5276 Mar 20 18:36 29°P(3308) 3°2854 retrograde 5277 FRE 21 18:40 20°P(20°P) direct 5276 Mar 20 18:46 20°P(40°P) 23°P(45°P) 18:40 3°1000 3°1239 desc. node 5276 Apr 12 19:04 28°P(830) 6°8339 minimum elong 5277 Mar 08 02:23 4°P(40°P) morning set 5276 May 18 17:48 21°S946 des. node 5277 Mar 14 02:39 4°P(10°P) max. Earth dist. 5276 May 20 17:48 21°S946 des. node 5277 May 10 01:57 0°P(10°P) minimum elong	asc. node	5276 Mar 03 17:50	3° Y 08'22		evening rise	5277 Jan 19 20:07	9° ≈ 31′06	
S276 Mar 8 99:31 30°R 99:34 30°R 99:46'22 99'46'22 19'46'22 19'46'22 19'46'22 19'46'22 19'46'22 19'46'22 19'46'22 19'46'22 19'46'22 19'46'23	retrograde	5276 Mar 09 21:03				5277 Feb 02 06:12	0°) €	
inferior conj \$276 Mar 18 19.05 \$29\tau3008 392859 asc. node \$277 Feb 21 18 14.52 19\tau2804 Feb 20 Feb 20 18 14.52 19\tau2804 Feb 20 Feb 21 18 14.52 19\tau2804 Feb 20 Feb 20 18.30 29\tau2804 Feb 20 Feb 20 Feb 21 18 14.52 19\tau2804 Feb 20 Feb 20 Feb 20 18.30 29\tau2804 Feb 20 Feb 2	evening set	5276 Mar 13 04:59	5° Y 14′00		greatest brilliancy	5277 Feb 02 11:10		-0.7m
minimum elong \$276 Mar 18 18.06 \$29\tau308 32854 retrograde \$277 Feb 21 18.41 \$20\tau4025 5 \$278 Mar 20 16.33 \$27\tau4025 18 \$6801 AU evening set \$277 Feb 25 10.23 \$29\tau4025 5 \$277 Mar 02 18.30 \$29\tau4007 3 \$21239 5 \$277 Mar 02 18.30 \$29\tau4007 3 \$21239 5 \$278 Apr 12 19.04 \$28\tau4085 5 \$24\tau4035 5 \$277 Mar 03 21.27 \$17\tau4007 3 \$21239 5 \$48000 3 \$28\tau4083 5 \$277 Mar 03 21.27 \$17\tau4007 4000 3 \$21230 5 \$44900 3 \$28\tau4083 5 \$28\tau4083 3 \$26\tau4083 3 \$27\tau4083 3 \$27\tau4083 3 \$27\tau4083 3 \$27\tau4083 3 \$27\tau4083 3 \$2		5276 Mar 18 09:31	30° ₹ ₩		_	5277 Feb 14 08:04		19°46'22
min. Earth dist. 5.276 Mar 20 10:53 27° ¥2518 0.6580 1 AU even in ferior conj 5.277 Mar 0.2 0.252 13° ¥0.345 19° ¥0.236 morning rise 5.276 Mar 30 18:46 20° ¥2.672 L inferior conj 5277 Mar 0.2 0.252 13° ¥0.034 3° 1239 desc. node 5.276 Apr 10 90:35 24° ¥4.692 L mini. Earth dist. 5277 Mar 0.2 0.225 1° 1° ¥4.022 1° ¥4.028 0.66983 AU morning max el 5.276 Apr 14 13:36 0°° V 14° ¥0.839 morning rise 5277 Mar 0.8 0.225 6° 44900 64° 4900 4° ¥0.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° ¥4.00 1° ¥4.00 2° 2° 23° 37° 1° 4° 40° 80° 2° 2° 23° 37° 1° 2° 20° 20° 20° 20° 20° 20° 20° 20° 20°	inferior conj				asc. node			
morning rise S276 Mar 24 06.50 S29 M15°52 minefinor conj S277 Mar 02 20:25 13° M10345 3° 12′59 direct S276 Mar 30 18:46 20° M26′22 minimum elong S277 Mar 02 20:25 13° M1073 3° 12′39 desc. node S276 Apr 12 19:04 28° M08′30 26° 38′39 morning rise S277 Mar 08 02:25 6° M49′00 S276 Apr 14 13:36 0°° morning rise S277 Mar 08 02:25 6° M49′00 S276 May 18 17:48 21° U559′46 desc. node S277 Mar 14 02:39 4° M08′30 25° 23′57 morning set S276 May 18 17:48 21° U559′46 desc. node S277 Mar 26 01:36 12° M04′56 S276 May 18 17:48 21° U559′46 desc. node S277 Mar 26 21:36 12° M04′56 S276 May 22 20:47 0° M morning set S277 Mar 08 0:25 0°° V max. Earth dist S276 May 22 21:17 0° M 33′03 max. Earth dist S277 May 01 08:56 4° U52′44 superior conj S276 May 27 1:00 9° M19′17 0°33′03 max. Earth dist S277 May 01 08:56 4° U52′44 superior conj S276 May 30 17:05 16° M06′44 0° S superior conj S277 May 11 01:38 S2° U52′14 0° U52′57 evening rise S276 Jun 04 00:04 25° M06′29 minimum elong S277 May 11 01:38 S2° U52′14 0°	_				Č			
direct 5276 Mar 30 18:46 20°¥26'22 minimum elong 5277 Mar 02 18:30 13°¥10'07 3°12'93 desc. node 5276 Apr 10 90 0:35 24°¥40'35 minimum elong 5277 Mar 03 21:27 11°¥40'28 0.66983 AU moming max el 5276 Apr 12 19:04 28°¥80'830 26°83'39 moming rise 5277 Mar 08 02:25 6°¥49'00 4°80'80'3 score Apr 14 13:36 0°¥ moming max el 5277 Mar 26 04:24 11°¥0'80'3 25°25'6 May 81 17-48 21°¥5'9'4 desc. node 5277 Mar 26 04:24 11°¥0'80'3 25°25'5'7 max. Earth dist. 5276 May 22 22:17 0°¶10'72 1.34511 AU moming set 5277 May 10 10:15 0°¥ superior conj 5276 May 27 11:00 9°¶10'17 0°3303 max. Earth dist. 5277 May 01 08:56 4°824'34 18°21'1				0.65801 AU	•			
desc. node \$276 Apr 09 00:35	Č				,			
morning max el 5276 Apr 12 19:04 28°H08'30 26'38'39 morning rise 5277 Mar 08 02:25 6°H49'00 4'H08'03 5276 Apr 14 13:36 0°P direct 5277 Mar 14 02:39 4'H08'03 5223'57 4'H08'03 5276 May 06 05:31 0°B morning max el 5277 Mar 26 04:24 11°H20'43 25°23'57 morning set 5276 May 18 17:48 21°B5'946 desc. node 5277 Mar 26 04:24 11°H20'43 25°23'57 max. Earth dist. 5276 May 22 20:47 0°H 1.34511 AU 5277 Apr 10 01:57 0°P 12°H07'27 1.34511 AU morning set 5277 Apr 10 01:57 0°P 1.2414 1.36271 AU					•			
S276 Apr 14 13:36 0°P direct 5277 Mar 14 02:39 4°H0803 25°23'57 moming set 5276 May 06 05:31 0°B 0°B desc. node 5277 Mar 26 04:24 11°H20'43 25°23'57 moming set 5276 May 22 00:47 0°H 5277 Apr 10 01:57 0°P 6°P		1		26929120				0.66983 AU
moming set 5276 May 06 05:31 0°B moming max el 5277 Mar 26 04:24 11° ½0'43 25°25'75 May 18 17:48 21° ½5'946 desc. node 5277 Mar 26 01:25 0°L'36 12° ½0'45'6 22° ½0'14 0°E 40°E 5277 Mar 26 01:36 12° ½0'45'6 22° ½0'14 0°E 40°E 22° 277 Mar 26 01:35 0°E 40°E	morning max ei	•		20-38-39	Č			
morning set 5276 May 18 17.48 21° 85946 desc. node 5277 Mar 26 21:36 12° 140456 3276 May 22 20:47 0° 11 0° 11 3277 Apr 10 01.57 0° 10° 14 3277 Apr 10 01.57 0° 10° 10° 1846 3277 Apr 10 01.57 0° 10° 10° 10° 10° 10° 10° 10° 10° 10°		•						25°23'57
Max. Earth dist. 5276 May 22 20:47 0°II 0°II 0°II 5277 Apr 10 01:57 0°Y	morning set	•			•			23 23 31
max. Earth disk.	morning set	•			dese. Hode			
superior conj 5276 May 27 11:00 9° ∏1917 -0°33′03 moming set 5277 May 05 01:38 4° ♥24′34 asc. node 5276 May 27 12:48 9° ∏1917 -0°33′03 max. Earth dist. 5277 May 05 01:38 11° № 13′41 1.36271 AU asc. node 5276 May 27 12:48 9° ∏283′4 superior conj 5277 May 11 01:38 22° № 51′06 -1°02′57 evening rise 5276 Jun 06 09:14 0° © minimum elong 5277 May 11 05:09 23° № 308′33 1°02′21 evening max el 5276 Jun 23 07:17 26° № 34′10 21°04′08 asc. node 5277 May 17 14:07 6° ⊞02′53 1°02′21 retrograde 5276 Jul 23 05 02:11 2° № 22′17 evening rise 5277 Jun 17 14:07 6° ⊞02′53 1°02′9	max Earth dist	-		1 34511 AU		•		
superior conj 5276 May 27 11:00 9°Π9¹17 -0°33'03 max. Earth dist. 5277 May 05 01:38 11°813'41 1.36271 AU minimum elong 5276 May 27 12:48 9°П28'34 0°32'43 superior conj 5277 May 11 01:38 22°851'06 -1°02'57 evening rise 5276 Jun 00:04 25°П06'29 minimum elong 5277 May 11 05:09 23°8'08'33 1°02'21 evening rise 5276 Jun 23 07:17 26°93'4'10 21°04'08 asc. node 5277 May 17 14:07 6°П02'53 retrograde 5276 Jun 23 07:17 26°93'4'10 21°04'08 asc. node 5277 May 17 14:07 6°Π02'53 retrograde 5276 Jul 05 02:11 2°Q2'21' evening rise 5277 Jun 15 18:28 12°93'60'9 19°49'45 evening set 5276 Jul 10 16 15:41 28°23'12'1 evening set 5277 Jun 15 18:28 12°93'60'9 19°49'45 inferior conj 5276 Jul 1 16 <td></td> <td></td> <td></td> <td></td> <td>morning set</td> <td></td> <td></td> <td></td>					morning set			
minimum elong 5276 May 27 1248 9° Π28'34 9°32'43 3 3 3 3 3 3 3 3 3	superior conj	5276 May 27 11:00	9° Ⅱ 19'17	-0°33'03	•	•		1.36271 AU
evening rise 5276 Jun 04 00:04 25° Πο6'29 minimum elong 5277 May 14 14:53 0° 3 1°02'21 evening max el 5276 Jun 06 09:14 0° \$ 21°04'08 asc. node 5277 May 14 14:53 0° Π ° Π02'53 evening max el 5276 Jun 27 13:13 0° \$ evening rise 5277 May 17 10:07 0° 102'53 *** retrograde 5276 Jul 05 02:11 2° Ω22'17 *** evening rise 5277 Jun 05 16:35 7° \$50'09 19° 49'45 evening set 5276 Jul 05 03:46 2° Ω20'21 evening max el 5277 Jun 05 16:35 7° \$50'09 19° 49'45 evening set 5276 Jul 13 08:59 30° \$ evening set 5277 Jun 15 18:28 12° \$36'09 19° 49'45 inferior conj 5276 Jul 16 15:41 28° \$13'03 -3° 04'35 desc. node 5277 Jun 17 16:23 12° \$36'09 19° 49'45 minimum elong 5276 Jul 16 07:35 28° \$24'27 3° 01'58 inferior conj 5277 Jun 18 16:43 10° \$44' 10° \$6'3 10° \$6'3 10° \$6'3 10° \$6'3 10° \$6'3 10° \$6'3 1		5276 May 27 12:48	9°Ⅱ28'34	0°32'43		Ž		
S276 Jun 06 09:14 0°\$ 320 00:14 0°\$ 3277 May 14 14:53 0° Π 6° Π 02:53 02:60 02:53 02:60 03:	asc. node	5276 May 30 17:05	16° Ⅱ 06'44		superior conj	5277 May 11 01:38	22° 8 51'06	-1°02'57
evening max el	evening rise	5276 Jun 04 00:04	25° Ⅱ 06′29		minimum elong	5277 May 11 05:09	23° 8 08'33	1°02'21
S276 Jun 27 13:13 O°		5276 Jun 06 09:14	0 \circ \odot			5277 May 14 14:53	Π °0	
retrograde 5276 Jul 05 02:11 2°Ω22'17	evening max el	5276 Jun 23 07:17		21°04'08	asc. node	5277 May 17 14:07		
desc. node 5276 Jul 05 23:46 2°\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					evening rise			
Sevening set S276 Jul V O7:32 2°Ω10'41 retrograde S277 Jun V O7:32 V O7:32 S2°Q10'41 retrograde S277 Jun V O7:32 V O7:32 V O7:32 V O7:32 S2°Q10'43 S2°Q13'03 S2°Q1'35 S277 Jun V O7:32 V O7:32 V O7:33 S2°Q1'35 S277 Jun V O7:32 V O7:33 V O7:33 V O7:33 V O7:33 S2°Q1'35 S277 Jun V O7:34 V O7:3	retrograde						0 \circ \odot	
S276 Jul 13					•			19°49'45
inferior conj 5276 Jul 16 15:41 28°\$13'03 -3°04'35 desc. node 5277 Jun 22 20:48 10°\$43'50 minimum elong 5276 Jul 16 07:35 28°\$24'27 3°01'58 inferior conj 5277 Jun 26 14:07 8°\$34'31 -1°06'53 min. Earth dist. 5276 Jul 17 04:12 27°\$55'25 0.54787 AU minimum elong 5277 Jun 26 11:02 8°\$39'15 1°05'44 morning rise 5276 Jul 25 07:54 24°\$15'18 min. Earth dist. 5277 Jun 28 16:43 7°\$16'59 0.55356 AU direct 5276 Jul 28 22:44 23°\$47'09 morning rise 5276 Jul 05 03:39 4°\$90'19 5276 Aug 10 21:20 0°\$\Omega\$ direct 5276 Aug 10 18:47 29°\$54'00 22°40'49 morning max el 5277 Jul 09 12:39 3°\$27'13 morning max el 5276 Aug 26 16:22 22°\$\Omega\$31'29 morning max el 5277 Aug 07 02:31 0°\$\Omega\$ asc. node 5277 Aug 13 13:23 11°\$\Omega\$57'11 morning set 5276 Sep 02 01:53 5°\$\Omega\$19'41 morning set 5277 Aug 17 13:37 20°\$\Omega\$12'41	evening set				•			
minimum elong 5276 Jul 16 07:35 28°S24'27 3°01'58 inferior conj 5277 Jun 26 14:07 8°S34'31 -1°06'53 min. Earth dist. 5276 Jul 17 04:12 27°S55'25 0.54787 AU minimum elong 5277 Jun 26 11:02 8°S39'15 1°05'44 morning rise 5276 Jul 28 22:44 23°S47'09 minimum elong 5277 Jul 05 03:39 4°S09'19 0.55356 AU morning max el 5276 Aug 10 21:20 0°Ω direct 5277 Jul 05 03:39 4°S09'19 0.55356 AU morning max el 5276 Aug 10 18:47 29°S54'00 22°40'49 morning max el 5277 Jul 09 12:39 3°S27'13 0°Ω asc. node 5276 Aug 10 12:06 0° M asc. node 5277 Aug 10 02:31 0°Ω 0°Ω morning set 5276 Aug 10 12:06 0° M asc. node 5277 Aug 11 13:37 10°Ω 11°Ω57'11				200.412.5	•			
min. Earth dist. 5276 Jul 17 04:12 27°\\$55'25 0.54787 AU minimum elong 5277 Jun 26 11:02 8°\\$39'15 1°05'44 morning rise 5276 Jul 25 07:54 24°\\$15'18 min. Earth dist. 5277 Jun 28 16:43 7°\\$16'59 0.55356 AU direct 5276 Jul 28 22:44 23°\\$47'09 morning rise 5277 Jul 05 03:39 4°\\$09'19 5276 Aug 10 21:20 0°\\$\Omega\$ direct 5277 Jul 09 12:39 3°\\$27'13 morning max el 5276 Aug 10 18:47 29°\\$54'00 22°\\$40'49 morning max el 5277 Aug 07 02:31 0°\\$\Omega\$ 24°\\$24'54 asc. node 5276 Aug 10 12:06 0°\\$\Omega\$ asc. node 5277 Aug 13 13:23 11°\\$\Omega\$711 morning set 5276 Sep 02 01:53 5°\\$\Omega\$19'41 morning set 5277 Aug 17 13:37 20°\\$\Omega\$12'41								1906152
morning rise 5276 Jul 25 07:54 24°\$15'18 min. Earth dist. 5277 Jul 28 16:43 7°\$16'59 0.55356 AU direct 5276 Jul 28 22:44 23°\$47'09 morning rise 5277 Jul 05 03:39 4°\$99'19 5276 Aug 10 21:20 0°Ω direct 5277 Jul 09 12:39 3°\$27'13 morning max el 5276 Aug 10 18:47 29°\$54'00 22°40'49 morning max el 5277 Jul 23 09:00 10°\$18'46 24°24'54 asc. node 5276 Aug 26 16:22 22°Ω31'29 asc. node 5277 Aug 07 02:31 0°Ω morning set 5276 Aug 20 12:53 5°\$19'19'41 morning set 5277 Aug 17 13:37 20°\$Ω12'41	e e							
direct 5276 Jul 28 22:44 23°S47'09 morning rise 5277 Jul 05 03:39 4°S09'19 $10^{12} + 10^{12} +$				U.J4/8/ AU	•			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•							0.55550 AU
morning max el 5276 Aug 10 18:47 29°\$54'00 22°40'49 morning max el 5277 Jul 23 09:00 10° 518'46 24° 24'54 asc. node 5276 Aug 26 16:22 22° 031'29 5277 Aug 07 02:31 0° 0 0° 0 asc. node 5277 Aug 13 13:23 11° 057'11 morning set 5276 Sep 02 01:53 5°\$\mathbf{n}\$19'41 morning set 5277 Aug 17 13:37 20° 012'41	anoci				•			
asc. node 5276 Aug 26 16:22 22° Ω 31'29 5277 Aug 07 02:31 0° Ω 5276 Aug 30 12:06 0° Ω asc. node 5277 Aug 13 13:23 11° Ω 57'11 morning set 5276 Sep 02 01:53 5° Ω 19'41 morning set 5277 Aug 17 13:37 20° Ω 12'41	morning max el	•		22°40'49				24°24'54
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	•						
morning set 5276 Sep 02 01:53 5° To 19'41 morning set 5277 Aug 17 13:37 $20^{\circ}\Omega$ 12'41		•			asc. node	•		
	morning set					•		
						5277 Aug 22 02:26	0° m)	

superior conj	5277 Aug 24 12:14	5° m 15'20	1°32'17	superior conj	5278 Aug 08 23:17	20° Ω 09'08	1°18'34
minimum elong	5277 Aug 24 10:20	5° Mp 04'56	1°32'06	minimum elong	5278 Aug 08 21:00	19°Ω56'33	1°18'15
max. Earth dist.	5277 Aug 26 09:01	9° m) 17'55	1.32881 AU	max. Earth dist.	5278 Aug 09 17:16	21° Ω 48'12	1.32187 AU
evening rise	5277 Aug 31 19:48	20° m 44'24			5278 Aug 13 11:36	0° m/	
Č	5277 Sep 05 12:53	0∘ <u>⊽</u>		evening rise	5278 Aug 15 22:43	5° m) 12'53	
desc. node	5277 Sep 18 20:04	22° £ 31'31		C	5278 Aug 29 04:04	0∘ <u>⊽</u>	
	5277 Sep 24 03:02	0°M		desc. node	5278 Sep 05 17:06	11° ≏ 27'56	
evening max el	5277 Oct 04 03:28	11°M31'29	27°27'16	evening max el	5278 Sep 16 10:29	24° £ 05'36	27°12'18
retrograde	5277 Oct 17 19:30	18° M 48'11		C	5278 Sep 24 16:54	0°M	
evening set	5277 Oct 24 23:02	16°M13'26		retrograde	5278 Sep 30 07:02	1°ML18'38	
min. Earth dist.	5277 Oct 28 15:17	13°M04'00	0.63414 AU	Č	5278 Oct 05 15:37	30° ₽ Ω	
inferior conj	5277 Oct 31 07:08	10°M24'23	-2°58'07	evening set	5278 Oct 07 09:41	29° ♀ 00'47	
minimum elong	5277 Oct 31 12:18	10°M11'27		min. Earth dist.	5278 Oct 11 01:03	26° £ 15'38	0.61497 AU
morning rise	5277 Nov 07 03:07	5°M08'35		inferior conj	5278 Oct 14 02:47	23° ≏ 32'26	-3°58'59
direct	5277 Nov 09 13:18	4°M40'22		minimum elong	5278 Oct 14 09:06	23° ≏ 18'26	
asc. node	5277 Nov 09 12:38	4°M40'22		morning rise	5278 Oct 21 10:27	18° ≏ 36'17	
morning max el	5277 Nov 16 03:34	8°M05'24	17°49'52	direct	5278 Oct 23 17:58	18° ≙ 13'56	
	5277 Nov 30 15:31	0° ⊼ ¹	-,	asc. node	5278 Oct 27 09:40	19° ≙ 11'58	
morning set	5277 Dec 02 13:14	3° √ 18'44		morning max el	5278 Oct 30 18:47	21° ≏ 46'04	17°55'17
morning set	3211 BCC 02 13.14	J X 1044		morning max er	5278 Nov 06 01:58	0° M ₅	17 33 17
superior conj	5277 Dec 14 17:52	24° ₹ 03'34	0°07'29	morning set	5278 Nov 15 13:15	16°M32'36	
minimum elong	5277 Dec 14 17:32 5277 Dec 14 18:39	24° × 05'50	0°07'24	morning set	5278 Nov 22 24:00	0° ₹	
behind sun begin	5277 Dec 14 10:06	23° 🖈 31'31	0 07 24		3278 NOV 22 24.00	0 ^	
behind sun begin	5277 Dec 14 10:00 5277 Dec 15 03:12	24° × ⁷ 42'04		superior conj	5278 Nov 26 00:50	5° ∡ 19'35	0°46'11
desc. node	5277 Dec 15 03:12 5277 Dec 15 19:20	25° × 48'22		minimum elong	5278 Nov 26 04:25	5° × 1933	0°45'43
desc. flode	5277 Dec 13 19:20 5277 Dec 18 09:06	23 メ ・46 22		desc. node		16° ∡ 35'33	0 43 43
Earth Hat		0 3 4° る 07'56	1 44105 ATT		5278 Dec 02 16:23		1 42660 AII
max. Earth dist.	5277 Dec 20 22:44	18° る 44'02	1.44195 AU	max. Earth dist.	5278 Dec 03 12:07	17° 🗷 56'56	1.42668 AU
evening rise	5277 Dec 30 06:16			evening rise	5278 Dec 09 22:59	28° х 19'55	
	5278 Jan 06 16:01	0°≈	20050112		5278 Dec 11 00:28	5°0	
evening max el	5278 Jan 28 08:44	29°≈36'17	20°50'12		5278 Dec 31 09:16	0° ≈	22004124
,	5278 Jan 28 18:08	0°) {		evening max el	5279 Jan 11 04:06	13°≈12'09	22°04'24
asc. node	5278 Feb 05 11:54	4°) (31'37		retrograde	5279 Jan 20 14:01	18°≈48'00	
retrograde	5278 Feb 05 16:58	4°) (31′52		asc. node	5279 Jan 23 08:56	18°≈06'51	
evening set	5278 Feb 09 17:48	2°) 59′00		evening set	5279 Jan 25 01:32	16°≈59'49	2011100
	5278 Feb 12 16:01	30°R≈		inferior conj	5279 Jan 30 09:47	10°≈39'45	2°11'00
inferior conj	5278 Feb 15 02:01	26°≈47'54	2°46'24	minimum elong	5279 Jan 30 07:27	10° ≈ 47'52	2°10'15
minimum elong	5278 Feb 14 23:40	26°≈56′01	2°45'49	min. Earth dist.	5279 Jan 30 09:32	10° ≈ 40'35	0.68093 AU
min. Earth dist.	5278 Feb 15 13:46	26° ≈ 07′27	0.67740 AU	morning rise	5279 Feb 04 13:11	4° ≈ 28'49	
morning rise	5278 Feb 20 05:21	20° ≈ 34'14		direct	5279 Feb 09 08:55	2° ≈ 26′02	
direct	5278 Feb 25 15:37	18° ≈ 10′08		morning max el	5279 Feb 18 23:45	8° ≈ 06'23	22°27'59
morning max el	5278 Mar 08 13:09	24° ≈ 40′18	23°57'01	desc. node	5279 Feb 28 15:40	19° ≈ 42'46	
	5278 Mar 13 08:12	0° ∀			5279 Mar 08 00:13	0° ∀	
desc. node	5278 Mar 13 18:38	0°) 31′26		morning set	5279 Mar 24 18:05	25°) 48′40	
	5278 Apr 03 13:11	0 ° $\mathbf{\Upsilon}$			5279 Mar 27 07:04	0 ° $\mathbf{\gamma}$	
morning set	5278 Apr 13 02:55	15° Y 45′25		max. Earth dist.	5279 Mar 29 17:58	4° Ƴ 07'17	1.40563 AU
max. Earth dist.	5278 Apr 16 21:46	22° Y 22'35	1.38362 AU				
	5278 Apr 21 02:36	9° 8		superior conj	5279 Apr 06 13:13	17° Ƴ 45'12	
				minimum elong	5279 Apr 06 18:01	18° Y 06'47	1°53'57
superior conj	5278 Apr 24 03:49	5° 8 43'00			5279 Apr 13 04:56	0° 8	
minimum elong	5278 Apr 24 08:39	6° 8 05'55	1°30'32	evening rise	5279 Apr 16 15:58	6° 8 30'30	
evening rise	5278 May 03 03:41	23° 8 12'48		asc. node	5279 Apr 21 08:12	15° 8 12'57	
asc. node	5278 May 04 11:09	25° 8 46'33			5279 Apr 30 16:13	Π $^{\circ}0$	
	5278 May 06 15:43	Π $^{\circ}0$		evening max el	5279 May 02 19:34	2° Ⅱ 21'21	18°21'17
evening max el	5278 May 19 13:40	19° Ⅱ 47'50	18°55'21	retrograde	5279 May 10 03:09	5° Ⅱ 59'41	
retrograde	5278 May 28 01:24	23° Ⅱ 57'35		evening set	5279 May 12 11:33	5° Ⅱ 38'07	
evening set	5278 May 30 02:49	23° Ⅱ 43'51		inferior conj	5279 May 19 18:51	1° Ⅱ 01'29	2°06'59
inferior conj	5278 Jun 07 05:43	19° Ⅱ 27'08	0°43'47	minimum elong	5279 May 19 22:18	0° Ⅱ 54'17	2°05'58
minimum elong	5278 Jun 07 07:24	19° Ⅱ 24′08	0°43'10		5279 May 21 00:14	30° ₹ 8	
desc. node	5278 Jun 09 17:51	17° Ⅱ 40′21		min. Earth dist.	5279 May 23 05:20	28° 8 11'23	0.58772 AU
min. Earth dist.	5278 Jun 10 08:37	17° Ⅱ 14'56	0.56778 AU	morning rise	5279 May 27 05:59	25° 8 28'09	
morning rise	5278 Jun 15 08:38	14° Ⅱ 25′25		desc. node	5279 May 27 14:53	25° 8 16'30	
direct	5278 Jun 20 16:04	13° Ⅱ 17'58		direct	5279 Jun 02 09:48	23° 8 47'05	
morning max el	5278 Jul 04 23:38	20° Ⅱ 43′20	26°00'26		5279 Jun 15 03:27	$\Pi^{\circ}0$	
	5278 Jul 12 23:58	0 \circ \odot		morning max el	5279 Jun 16 19:09	1° Ⅱ 33'13	27°11'53
	5278 Jul 30 14:44	$0^{\circ}\Omega$			5279 Jul 07 05:17	0ංම	
asc. node	5278 Jul 31 10:25	1° Ω 41'16		morning set	5279 Jul 17 09:41	19°543'11	
morning set	5278 Aug 02 00:46	5° Ω 02'12		asc. node	5279 Jul 18 07:28	21°538'04	
-	=						

asc. node	5281 Jun 21 01:32	1° 5 49'56			5282 May 28 03:44	0° I I	
				morning set	5282 May 29 02:38	1° Ⅱ 50′23	
superior conj	5281 Jun 22 06:07	4° 5 23'57	0°12'22	max. Earth dist.	5282 Jun 02 16:40	10° Ⅱ 58'34	1.33695 AU
minimum elong	5281 Jun 22 05:32	4°\$20'45	0°12'13				
behind sun begin	5281 Jun 22 02:07	4°502'20		superior conj	5282 Jun 06 09:26	18° Ⅲ 39'45	-0°15'58
behind sun end	5281 Jun 22 08:56	4° 5 39'11		minimum elong	5282 Jun 06 10:16	18° Ⅱ 44'10	0°15'48
evening rise	5281 Jun 29 05:23	19° 5 28'36		behind sun begin	5282 Jun 06 09:24	18° Ⅲ 39'34	
	5281 Jul 04 08:30	$0^{\circ}\Omega$		behind sun end	5282 Jun 06 11:09	18° Ⅱ 48'45	
evening max el	5281 Jul 22 16:51	27° Ω 21'11	23°31'08	asc. node	5282 Jun 07 22:34	21° II 56'17	
•	5281 Jul 25 17:44	0° m			5282 Jun 11 17:22	0ංම	
desc. node	5281 Jul 27 08:11	1° Mp 09'03		evening rise	5282 Jun 13 16:17	4°908'13	
retrograde	5281 Aug 05 06:48	4° ١١ 09'52		, and the second	5282 Jun 27 21:51	$0^{\circ}\Omega$	
evening set	5281 Aug 09 09:56	3° m 32'27		evening max el	5282 Jul 04 08:23	7° Ω 44'47	21°54'44
min. Earth dist.	5281 Aug 16 02:31	0° m 24'54	0.55818 AU	desc. node	5282 Jul 14 05:11	13° Ω 42'53	
	5281 Aug 16 19:25	30°RΩ		retrograde	5282 Jul 16 23:53	14°Ω00'59	
inferior conj	5281 Aug 18 03:26	29° Ω 12'17	-5°05'25	evening set	5282 Jul 19 17:21	13° Ω 44'19	
minimum elong	5281 Aug 17 22:33	29° Ω 19'34		min. Earth dist.	5282 Jul 28 12:30		0.54899 AU
morning rise	5281 Aug 26 13:36	25°Ω18'39	3 0132	inferior conj	5282 Jul 29 00:23	9° Ω 41'16	
direct	5281 Aug 29 10:17	24° Ω 58'30		minimum elong	5282 Jul 28 15:32	9° Ω 53'40	
morning max el	5281 Sep 08 20:46	29° Ω 49'37	20°14'45	morning rise	5282 Jul 26 15:32 5282 Aug 06 15:16	5° Ω 50'40	3 3737
morning max cr	5281 Sep 09 20:40 5281 Sep 09 01:11	0°M)	20 1443	direct	5282 Aug 09 21:56	5° Ω 27'01	
asc. node	•				-	$11^{\circ}\Omega 05'37$	21942!11
	5281 Sep 17 00:48 5281 Sep 27 07:26	10° Mp 12'31		morning max el asc. node	5282 Aug 21 23:02 5282 Sep 03 21:50	28° Ω 53'06	21 43 11
morning set	•	29° m 20'52		asc. node			
	5281 Sep 27 15:06	0∘ ⊽			5282 Sep 04 12:42	0° M)	
	5201 0 4 04 22 40	1.40 0.50(51	1041145	morning set	5282 Sep 11 16:44	14° m) 08'02	
superior conj	5281 Oct 04 22:40	14° £ 58'51	1°41'45		5303 C 10 33.10	200 m 22102	1942104
minimum elong	5281 Oct 04 23:42	15° £ 04'04	1°41'43	superior conj	5282 Sep 18 22:18	29° My 23'02	1°43'04
max. Earth dist.	5281 Oct 10 08:09	25° Ω 35'33	1.36597 AU	minimum elong	5282 Sep 18 21:54	29° m/20'56	1°43'05
	5281 Oct 12 16:14	0°M		P. 4. P.	5282 Sep 19 05:23	0° ⊽	1 2 4020 1 7 7
evening rise	5281 Oct 14 04:31	2°M47'06		max. Earth dist.	5282 Sep 22 20:29	7° £ 27'43	1.34839 AU
desc. node	5281 Oct 23 07:26	18°M31'56		evening rise	5282 Sep 27 05:06	16° ≙ 02'40	
	5281 Oct 30 16:12	0° √			5282 Oct 04 21:18	0°M	
evening max el	5281 Nov 18 21:07	24° ₹ 17'18	25°53'16	desc. node	5282 Oct 10 04:27	8° ጤ 47'04	
	5281 Nov 26 07:17	0°る			5282 Oct 25 04:22	0° ∡ ¹	
retrograde	5281 Dec 01 08:05	1°る23'21		evening max el	5282 Nov 01 09:47	7° ∡ 756'16	26°48'35
	5281 Dec 05 21:40	30°R.✓		retrograde	5282 Nov 14 12:23	15° ∡ 13'07	
evening set	5281 Dec 07 10:44	28° 🖈 52'08		evening set	5282 Nov 21 03:19	12° ∡ ³34'16	
min. Earth dist.	5281 Dec 11 17:43	24° ₹ 15'09	0.66934 AU	min. Earth dist.	5282 Nov 25 03:43	8° ∡ ³32'34	0.65832 AU
inferior conj	5281 Dec 13 03:17	22° × 29'41		inferior conj	5282 Nov 27 00:54	6° ∡ 120'35	
minimum elong	5281 Dec 13 03:44	22° ≯ 28'13	0°17'29	minimum elong	5282 Nov 27 03:07	6° ≯ 14'08	1°17'12
asc. node	5281 Dec 14 00:03	21° ₹ 24'53		asc. node	5282 Nov 30 21:05	2° ≯ 16'30	
morning rise	5281 Dec 18 21:13	16° ≯ 38′26		morning rise	5282 Dec 03 03:48	0° ∡ ¹40'34	
direct	5281 Dec 22 02:26	15° ∡ ³39′09			5282 Dec 05 04:25	30°RM₊	
morning max el	5281 Dec 28 23:07	19° ∡ 26′18	18°58'00	direct	5282 Dec 05 23:40	29°M56'26	
	5282 Jan 06 06:14	0°ಕ			5282 Dec 06 19:01	0° ∡ ¹	
desc. node	5282 Jan 19 06:42	19° る 55'19		morning max el	5282 Dec 12 12:27	3° ≯ ¹28'00	18°18'01
morning set	5282 Jan 20 08:09	21° る 34'34			5282 Dec 30 15:13	0°ප	
	5282 Jan 25 17:37	0° ≈		morning set	5282 Dec 31 17:51	1° る 47'34	
max. Earth dist.	5282 Feb 03 23:28	14° ≈ 28′12	1.45102 AU	desc. node	5283 Jan 06 03:42	10° る 29'54	
						_	
superior conj	5282 Feb 05 22:27	17° ≈ 33'07		superior conj	5283 Jan 16 01:30	26° ප 12'04	
minimum elong	5282 Feb 05 13:27	16° ≈ 57'37	1°43'28	minimum elong	5283 Jan 15 17:39	25° る 41'13	1°04'14
	5282 Feb 13 18:30	0° ∀		max. Earth dist.	5283 Jan 17 18:17	28°る52'07	1.45321 AU
evening rise	5282 Feb 20 22:51	11°) 36'19			5283 Jan 18 11:36	0° ≈	
	5282 Mar 04 08:25	0 ° $\mathbf{\Upsilon}$		evening rise	5283 Feb 01 05:03	21° ≈ 28′23	
asc. node	5282 Mar 11 23:19	10° Ƴ 37'09			5283 Feb 06 15:47	0° ℋ	
evening max el	5282 Mar 13 07:25	12° Ƴ 03'57	18°35'11	greatest brilliancy	5283 Feb 12 08:47	8° ¥ 51′09	-0.8m
retrograde	5282 Mar 19 20:57	15° Ƴ 40'35		evening max el	5283 Feb 24 16:06	25° ∺ 35'10	19°15'54
evening set	5282 Mar 23 00:49	14° Y 44'13		asc. node	5283 Feb 26 20:22	27°) ₹33'45	
inferior conj	5282 Mar 28 18:27	9° Y 09'32	3°32'28	retrograde	5283 Mar 03 17:10	29° ∺ 35′50	
minimum elong	5282 Mar 28 18:13	9° Y 10'13	3°32'27	evening set	5283 Mar 07 04:08	28° ∺ 26′02	
min. Earth dist.	5282 Mar 30 19:08	6° Y 43'33	0.64915 AU	inferior conj	5283 Mar 12 16:12	22° ∺ 35'33	3°23'39
morning rise	5282 Apr 03 10:59	2° Y 56'33		minimum elong	5283 Mar 12 14:46	22°) 40′11	3°23'29
direct	5282 Apr 10 03:35	0° Y 07′29		min. Earth dist.	5283 Mar 14 01:38	20°) 47′40	0.66347 AU
desc. node	5282 Apr 17 05:57	2° Y 38'44		morning rise	5283 Mar 18 01:04	16° ∺ 20′37	
morning max el	5282 Apr 23 14:16	8° Y 00'37	27°12'21	direct	5283 Mar 24 08:22	13° ¥ 33'17	
	5282 May 10 15:20	9° 8		desc. node	5283 Apr 04 02:58	19° ¥ 16′18	

morning max el	5283 Apr 06 00:09 5283 Apr 13 17:14 5283 May 03 19:44	21°¥05'40 0° ° 0° 8	26°09'04	morning max el desc. node	5284 Mar 18 08:52 5284 Mar 21 00:01 5284 Apr 07 01:22	4° ℋ 20'42 7° ℋ 09'26 0° Ƴ	24°47'46
morning set max. Earth dist.	5283 May 12 03:17 5283 May 16 01:51	14° 8 44'35 22° 8 13'52	1.35203 AU	morning set	5284 Apr 23 10:07 5284 Apr 25 06:04	26° Y 43'41 0° ∀	
max. Lattii dist.	5283 May 19 24:00	0°II	1.33203 AO	max. Earth dist.	5284 Apr 27 00:52		1.37129 AU
superior conj minimum elong	5283 May 21 05:31 5283 May 21 08:03	2° ∏ 29'37 2° ∏ 42'29		superior conj minimum elong	5284 May 03 15:20 5284 May 03 19:29	15° 8 45'33	
asc. node	5283 May 25 19:36	11° I I57'09	0 43 18	minimum clong	5284 May 10 19:02	0°II	1 1439
evening rise	5283 May 29 00:12	18° Ⅲ 33'57		asc. node	5284 May 11 16:39	1° ∏ 48′24	
	5283 Jun 03 18:22	0°ಅ		evening rise	5284 May 12 02:51	2° Ⅱ 39′27	
evening max el	5283 Jun 16 10:27	18° 5 37'18	20°30'14		5284 May 28 20:25	0°€	
retrograde	5283 Jun 27 12:34	24° © 03'16		evening max el	5284 May 29 01:08	0° © 11'41	19°24'11
evening set	5283 Jun 29 12:34	23° © 53'24		retrograde	5284 Jun 07 09:36	4°9545'54	
desc. node	5283 Jul 01 02:12	23° © 32'38		evening set	5284 Jun 09 08:21	4° © 34'52	
inferior conj	5283 Jul 08 17:59	19°956'10		desc. node	5284 Jun 16 23:15	1°505'42	
minimum elong	5283 Jul 08 11:40	20°505'18	2°13'41	inferior conj	5284 Jun 17 22:36	0°928'04	
min. Earth dist.	5283 Jul 09 24:00	19°512'43	0.54912 AU	minimum elong	5284 Jun 17 21:51	0°©29'19 30°R∏	0°17'08
morning rise direct	5283 Jul 17 09:55 5283 Jul 21 07:41	15° © 48'17 15° © 15'21		min. Earth dist.	5284 Jun 18 15:50 5284 Jun 20 13:46	•	0.55873 AU
morning max el	5283 Jul 21 07:41 5283 Aug 03 15:57	21° © 43'06	23°25'00	morning rise	5284 Jun 26 08:33	28 H 43 37 25° H 47'47	0.33873 AU
morning max cr	5283 Aug 10 20:31	0°Ω	23 23 00	direct	5284 Jul 01 03:14	24° I I56'00	
asc. node	5283 Aug 21 18:52	18°Ω04'46		uncet	5284 Jul 12 21:48	0°95	
morning set	5283 Aug 27 04:05	29° Ω 00′22		morning max el	5284 Jul 15 05:21	2°503'21	25°07'31
C	5283 Aug 27 15:21	0° m)		· ·	5284 Aug 03 17:54	$0^{\circ}\Omega$	
	•			asc. node	5284 Aug 07 15:53	7° Ω 39'12	
superior conj	5283 Sep 03 04:14	14°№04'52	1°37'52	morning set	5284 Aug 10 15:46	13° £ 52′29	
minimum elong	5283 Sep 03 02:45	13° m 56'52	1°37'47				
max. Earth dist.	5283 Sep 05 17:41	19° m 32'46	1.33473 AU	superior conj	5284 Aug 17 13:59	28° Ω 56'16	1°27'04
evening rise	5283 Sep 10 18:38	29° m 54'51		minimum elong	5284 Aug 17 11:51	28° Ω 44'36	1°26'49
	5283 Sep 10 19:40	0° ⊽			5284 Aug 18 01:38	0° m	
desc. node	5283 Sep 27 01:28	28° £ 39'59		max. Earth dist.	5284 Aug 18 22:52	1° Mp 55'58	1.32537 AU
evening max el	5283 Sep 27 22:25 5283 Oct 14 22:06	0° M 21° M 21′23	27921121	evening rise	5284 Aug 24 17:32	14° Mp 12'56 0° <u> </u>	
retrograde	5283 Oct 14 22:06 5283 Oct 28 10:47	21°11621°23 28°11639'47	2/21/21	desc. node	5284 Sep 01 21:20 5284 Sep 12 22:31	18° £ 00'48	
evening set	5283 Nov 04 10:59	26°M00'59		dese. Hode	5284 Sep 22 04:23	0°M	
min. Earth dist.	5283 Nov 08 05:45	22°M33'19	0.64386 AU	evening max el	5284 Sep 26 08:02	4°ML18'44	27°25'04
inferior conj	5283 Nov 10 14:48	20°M01'23		retrograde	5284 Oct 10 02:16	11°M33'22	2, 200.
minimum elong	5283 Nov 10 18:56	19°M50'22	2°19'51	evening set	5284 Oct 17 06:26	9°M04'42	
morning rise	5283 Nov 17 04:13	14°MJ35'33		min. Earth dist.	5284 Oct 20 21:47	6°ML06'37	0.62628 AU
asc. node	5283 Nov 17 18:07	14°M22'20		inferior conj	5284 Oct 23 18:05	3°M24'06	-3°24'39
direct	5283 Nov 19 17:07	14°M02'37		minimum elong	5284 Oct 23 23:53	3°M10'17	3°22'45
morning max el	5283 Nov 26 04:56	17°M27'51	17°55'02		5284 Oct 27 15:51	30° ₹ Ω	
	5283 Dec 05 07:31	0° ∡ ¹		morning rise	5284 Oct 30 19:01	28° ≙ 15'54	
morning set	5283 Dec 13 08:34	13° ₹ 26'40		direct	5284 Nov 02 03:42	27° £ 50'30	
daga mada	5283 Dec 23 06:58	0°る 1° ろ 1220		asc. node	5284 Nov 03 15:09	28° ⊆ 00'43	
desc. node	5283 Dec 24 00:44	1° る 12'29		morning max el	5284 Nov 07 10:46 5284 Nov 08 21:28	0° ጤ 1° ጤ 17'36	17°49'48
superior conj	5283 Dec 26 16:34	5° ⋜ 31'06	-0°18'31	morning set	5284 Nov 24 22:19	26°M11'51	17 4240
minimum elong	5283 Dec 26 14:23	5° る 22'19		morning sec	5284 Nov 27 01:48	0° ⊼	
max. Earth dist.	5283 Dec 31 13:15		1.44808 AU			• •	
	5284 Jan 11 06:44	0°≈		superior conj	5284 Dec 06 08:14	16° х 02'34	0°25'04
evening rise	5284 Jan 11 18:47	0° ≈ 46′23		minimum elong	5284 Dec 06 10:36	16° ≯ 12'30	0°24'45
greatest brilliancy	5284 Jan 26 11:55	22° ≈ 59′07	-0.6m	desc. node	5284 Dec 09 21:46	21° х 58'53	
	5284 Jan 31 09:58	0°) €		max. Earth dist.	5284 Dec 13 05:45	27° ≯ 25'11	1.43618 AU
evening max el	5284 Feb 07 20:02	9° ₩ 09'02	20°12'04		5284 Dec 14 20:15	0°ಕ	
asc. node	5284 Feb 13 17:23	13°) €22'56		evening rise	5284 Dec 21 05:55	10°る05'06	
retrograde	5284 Feb 15 15:15	13°) 42′24			5285 Jan 03 11:20	0° ≈	21020145
evening set	5284 Feb 19 10:37	12° 光 18'15	2002/52	evening max el	5285 Jan 20 18:30	22°≈44'10	21°20'46
inferior conj	5284 Feb 24 19:39		3°02'52	retrograde	5285 Jan 29 13:05	27°≈56'10	
minimum elong	5284 Feb 24 17:29	6° ₩ 21'25	3°02'26	asc. node	5285 Jan 30 14:26	27°≈50'11	
min. Earth dist.	5284 Feb 25 14:57 5284 Feb 29 23:59	5°) €08'48 30°R≈	0.67359 AU	evening set inferior conj	5285 Feb 02 18:22 5285 Feb 08 02:25	26°≈16'46 20°≈01'38	2°32'21
morning rise	5284 Feb 29 23:39 5284 Mar 01 00:09	30°k≈ 29°≈59'37		minimum elong	5285 Feb 08 02:25 5285 Feb 08 00:01	20°≈01'38 20°≈09'59	2°32'21 2°31'41
direct	5284 Mar 06 18:45	27°≈24'43		min. Earth dist.	5285 Feb 08 08:56	19°≈39'04	0.67947 AU
	5284 Mar 13 09:31	0° ∀		morning rise	5285 Feb 13 05:29	13° ≈ 49'10	
				<i>3</i>		., .,	

direct	5285 Feb 18 09:40	11° ≈ 33'44			5286 Feb 10 00:29	0° ≈	
morning max el	5285 Feb 28 17:52	17° ≈ 42'16	23°18'49	morning max el	5286 Feb 11 06:29	1° ≈ 12'11	21°51'35
desc. node	5285 Mar 07 21:03	25°≈56'38		desc. node	5286 Feb 22 18:04	15° ≈ 22'30	
	5285 Mar 10 23:34	0°) €			5286 Mar 04 20:41	0°) €	
	5285 Mar 31 03:30	$0^{\circ}\mathbf{\Upsilon}$		morning set	5286 Mar 15 20:02	17°) €00'38	
morning set	5285 Apr 04 17:15	7° Y 32'29		max. Earth dist.	5286 Mar 21 19:19	26°) 45′43	1.41462 AU
max. Earth dist.	5285 Apr 08 20:22	14° Y 36'26	1.39304 AU		5286 Mar 23 17:39	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	5285 Apr 16 10:59	28° Y 17'55		superior conj	5286 Mar 29 11:39	9° Ƴ 54'44	
minimum elong	5285 Apr 16 16:03	28° Y 41′24	1°41'18	minimum elong	5286 Mar 29 15:41	10° Y 12'30	2°01'20
	5285 Apr 17 08:54	0° 8		evening rise	5286 Apr 09 04:10	29° Y 18′02	
evening rise	5285 Apr 25 21:22	16° 8 17'16		,	5286 Apr 09 13:15	0° 8	
asc. node	5285 Apr 28 13:42	21° 8 25'32		asc. node	5286 Apr 15 10:45	10° 8 42'33	10012146
avanina may al	5285 May 03 06:03	0°Ⅲ 12°Ⅲ25'43	18°38'24	evening max el	5286 Apr 25 10:49 5286 May 02 10:13	25° 8 10'38 28° 8 41'05	18°12'46
evening max el retrograde	5285 May 12 02:24 5285 May 20 00:34	12 II 23 43 16° II 20'08	16 36 24	retrograde evening set	5286 May 04 21:31	28° 8 15'25	
evening set	5285 May 20 00:54 5285 May 22 04:59	16° I I03'21		inferior conj	5286 May 11 21:16	23° 8 29'42	2°32'49
inferior conj	5285 May 29 23:16	11° I I38'06	1°22'55	minimum elong	5286 May 12 00:41	23° 8 22'08	2°31'58
minimum elong	5285 May 30 02:05	11° II 30'00	1°21'58	min. Earth dist.	5286 May 15 06:30	20° 8 30'44	0.59696 AU
min. Earth dist.	5285 Jun 02 07:11	9° I 107'28	0.57574 AU	morning rise	5286 May 19 01:08	17° 8 45'43	0.0000110
desc. node	5285 Jun 03 20:18	8° П 03'25		desc. node	5286 May 21 17:20	16° 8 29'40	
morning rise	5285 Jun 06 19:53	6° Ⅱ 22'11		direct	5286 May 25 11:15	15° 8 50'20	
direct	5285 Jun 12 12:37	5° Ⅱ 01'15		morning max el	5286 Jun 08 20:06	23° 8 42'24	27°32'23
morning max el	5285 Jun 26 21:38	12° Ⅱ 35'58	26°34'41	•	5286 Jun 14 12:00	$\Pi^{\circ}0$	
	5285 Jul 10 13:04	0 \circ \odot			5286 Jul 03 17:22	0 \circ \odot	
asc. node	5285 Jul 25 12:57	27° 5 29'48		morning set	5286 Jul 10 09:39	13° © 15'08	
morning set	5285 Jul 26 02:13	28° © 39'37		asc. node	5286 Jul 12 10:00	17° 5 30'16	
	5285 Jul 26 17:23	0 $^{\circ}$ Ω		max. Earth dist.	5286 Jul 16 20:16	27° © 08'23	1.31923 AU
superior conj	5285 Aug 02 01:36	13° Ω 50′54	1°11'22	superior conj	5286 Jul 17 13:13	28° 5 41'51	0°51'20
minimum elong	5285 Aug 01 23:18	13° Ω 38'11	1°10'59	minimum elong	5286 Jul 17 11:13	28° © 30'49	0°50'56
max. Earth dist.	5285 Aug 02 09:03	14° Ω 32'03	1.32023 AU		5286 Jul 18 03:22	0° Ω	
evening rise	5285 Aug 08 22:55	28° Ω 48'25		evening rise	5286 Jul 24 08:20	13° Ω 32'46	
	5285 Aug 09 12:35	0 ் ⊽ 0° M		daga mada	5286 Aug 01 14:24	0°M)	
desc. node	5285 Aug 26 03:40 5285 Aug 30 19:33	6° £ 36'22		desc. node evening max el	5286 Aug 17 16:34 5286 Aug 21 09:55	24° Mp 07'42 28° Mp 01'43	25°53'49
evening max el	5285 Aug 30 19:35 5285 Sep 08 12:45	16° £ 35'06	26°55'39	evening max er	5286 Aug 23 15:05	0° ت	23 33 49
retrograde	5285 Sep 08 12:45 5285 Sep 22 10:04	23° £ 45'21	20 33 37	retrograde	5286 Sep 04 08:58	5° ≏ 08'32	
evening set	5285 Sep 29 09:33	21° ⊆ 38'31		evening set	5286 Sep 10 15:25	3° ⊆ 34'52	
min. Earth dist.	5285 Oct 03 02:54	18° ≏ 59'57	0.60638 AU	min. Earth dist.	5286 Sep 14 22:20		0.58560 AU
inferior conj	5285 Oct 06 07:25	16° ≙ 20'09			5286 Sep 16 07:23	30°R, Mp	
minimum elong	5285 Oct 06 13:43	16° ≏ 06'56	4°20'44	inferior conj	5286 Sep 18 03:14	28° m 39'35	-5°04'52
morning rise	5285 Oct 13 19:54	11° ≏ 33'06		minimum elong	5286 Sep 18 07:32	28° m 31'43	5°04'21
direct	5285 Oct 16 03:30	11° ≏ 12'11		morning rise	5286 Sep 26 01:58	24° m 15'44	
asc. node	5285 Oct 21 12:12	13° ≏ 09'54		direct	5286 Sep 28 11:52	23° m 56'49	
morning max el	5285 Oct 23 10:54	14° ≏ 49'30	18°03'23	morning max el	5286 Oct 06 17:50	27° m 54'10	18°37'20
	5285 Nov 02 21:15	0°M₊		asc. node	5286 Oct 08 09:14	29° m 37'04	
morning set	5285 Nov 08 04:44	9°M43'55			5286 Oct 08 17:13	0∘ ⊽	
·	5005 NT 10 01 51	070M 40100	0050122	morning set	5286 Oct 22 22:50	23° Ω 48'48	
superior conj	5285 Nov 18 01:51	27°M49'20	0°59'33 0°59'03		5286 Oct 26 03:15	0° M	
minimum elong	5285 Nov 18 05:45	28°M06'40 0°⊀	0~59.03	aumorior coni	5006 Oat 21 16:56	10°M38'42	1000100
max. Earth dist.	5285 Nov 19 07:24 5285 Nov 25 17:27	0 x . 11° ∡ 00'16	1.41891 AU	superior conj minimum elong	5286 Oct 31 16:56 5286 Oct 31 20:18	10 IIL3842 10°M54'28	1°23'08
desc. node	5285 Nov 26 18:48	11 ≯ 00 10 12° ₹ 45'41	1.41071 AC	max. Earth dist.	5286 Nov 07 23:55	23°M51'28	1.39845 AU
evening rise	5285 Dec 01 05:35	20°×700'34		max. Lartii dist.	5286 Nov 11 13:41	0° √	1.57045710
e vennig rise	5285 Dec 07 14:38	0°る		evening rise	5286 Nov 12 02:46	0° ∡ ¹55'07	
	5285 Dec 28 21:26	0° ≈		desc. node	5286 Nov 13 15:49	3° ∡ 129'34	
evening max el	5286 Jan 03 11:54	6° ≈ 20'48	22°37'53		5286 Nov 30 23:32	0°る	
retrograde	5286 Jan 13 09:06	12° ≈ 13'07		evening max el	5286 Dec 17 01:52	20° ප් 00'47	23°57'54
asc. node	5286 Jan 17 11:28	10° ≈ 45'49		retrograde	5286 Dec 28 01:53	26° る 29'27	
evening set	5286 Jan 18 01:46	10° ≈ 18′02		evening set	5287 Jan 02 07:14	24° る 19'02	
inferior conj	5286 Jan 23 10:29	3° ≈ 55'11	1°53'33	asc. node	5287 Jan 04 08:30	22° る 15'26	
minimum elong	5286 Jan 23 08:18	4° ≈ 02'46	1°52'48	min. Earth dist.	5287 Jan 07 01:54	18° る 47'25	0.67944 AU
min. Earth dist.	5286 Jan 23 05:19	4° ≈ 13'05	0.68133 AU	inferior conj	5287 Jan 07 18:03	17° る 52'35	1°07'30
	5286 Jan 26 10:03	30°Rる		minimum elong	5287 Jan 07 16:33	17° る 57'42	1°06'56
morning rise	5286 Jan 28 14:44	27° ප් 46'11		morning rise	5287 Jan 13 01:52	11° る 48'36	
direct	5286 Feb 02 04:18	25° る 53'20		direct	5287 Jan 17 01:38	10°る18'21	

morning max el	5287 Jan 25 01:47	14° る 53'20	20°33'16	transit end	5287 Dec 22 23:59	1° る 48'04	
morning man er	5287 Feb 05 23:35	0°≈	20 33 10	transit ona	5287 Dec 24 09:48	30°R ✓	
desc. node	5287 Feb 09 15:05	5°≈16'31		morning rise	5287 Dec 28 12:55	25° х 53'31	
morning set	5287 Feb 22 22:27	25° ≈ 24'23		direct	5288 Jan 01 00:25	24° х 43'45	
Č	5287 Feb 25 21:05	0°) €		morning max el	5288 Jan 08 04:58	28° х 45′08	19°28'15
max. Earth dist.	5287 Mar 04 01:06	9°) 48'45	1.43318 AU	C	5288 Jan 09 09:35	0° ರ	
				greatest brilliancy	5288 Jan 21 07:36	16° පි 08'21	-0.7m
superior conj	5287 Mar 10 12:39	20°) €26'35	-2°09'08	desc. node	5288 Jan 27 12:04	25° る 30'29	
minimum elong	5287 Mar 10 12:30	20°) €25'56	2°09'08		5288 Jan 30 10:17	0° ≈	
	5287 Mar 16 04:02	0 ° Υ		morning set	5288 Feb 01 19:55	3° ≈ 42'13	
evening rise	5287 Mar 22 18:59	11° Y 32'42		max. Earth dist.	5288 Feb 14 13:56	23° ≈ 36′40	1.44648 AU
asc. node	5287 Apr 02 07:47	29° Ƴ 33'09					
	5287 Apr 02 14:41	9° 8		superior conj	5288 Feb 18 12:13	29° ≈ 51'34	-1°59'07
evening max el	5287 Apr 08 23:00	8° 8 18'20	18°06'45	minimum elong	5288 Feb 18 05:43	29° ≈ 25'34	1°58'44
retrograde	5287 Apr 15 10:54	11° 8 40'16			5288 Feb 18 14:20	0° ∀	
evening set	5287 Apr 18 04:46	11° 8 03'34		evening rise	5288 Mar 03 13:17	22° ∺ 51′56	
inferior conj	5287 Apr 24 13:47	5° 8 57'57	3°13'31		5288 Mar 07 19:30	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	5287 Apr 24 16:03	5° 8 52'11	3°13'10	asc. node	5288 Mar 19 04:49	17° Y 48′09	
min. Earth dist.	5287 Apr 27 13:53	2° 8 55'33	0.61902 AU	evening max el	5288 Mar 22 11:50	21° Y 39'56	18°19'38
	5287 Apr 30 23:46	30° ₹ Υ		retrograde	5288 Mar 28 22:08	25° Y 07'16	
morning rise	5287 May 01 01:35	29° Y 56'45		evening set	5288 Mar 31 22:21	24° Y 18'15	
direct	5287 May 07 20:51	27° Y 31′02		inferior conj	5288 Apr 06 20:35	18° ℃ 53'51	3°30'50
desc. node	5287 May 08 14:21	27° Y 32'36		minimum elong	5288 Apr 06 21:13	18° Y 52'01	3°30'48
	5287 May 15 07:41	0°8	25052102	min. Earth dist.	5288 Apr 09 06:19	16° Y 10′03	0.63918 AU
morning max el	5287 May 22 00:38	5° 8 31'10	27°53'02	morning rise	5288 Apr 12 19:10	12° Y 43'49	
	5287 Jun 09 10:11	0°Ⅱ 27°Ⅲ		direct	5288 Apr 19 14:59	9° Υ 59'16	
morning set	5287 Jun 24 12:07	27° Ⅱ 33'11		desc. node	5288 Apr 24 11:20	11° Υ 10'09	27027127
1-	5287 Jun 25 16:40	0°95		morning max el	5288 May 03 09:08	17° Y 57'41	27°36'37
asc. node	5287 Jun 29 07:02	7°936'15	1 22255 ATT		5288 May 13 11:10	0°B 0°B	
max. Earth dist.	5287 Jun 30 04:43	9° © 33'11	1.32255 AU		5288 Jun 01 07:01 5288 Jun 07 07:11	0°Щ 11° Щ 26′28	
superior conj	5287 Jul 01 23:08	13° © 23'52	0027122	morning set max. Earth dist.	5288 Jun 12 06:36	21° II 35'31	1.33035 AU
minimum elong	5287 Jul 01 23:08 5287 Jul 01 21:54	13° © 17'07		max. Earm dist.	3200 Juli 12 00.30	21 113331	1.33033 AU
evening rise	5287 Jul 01 21:34 5287 Jul 08 19:48	28° © 19'57	0 27 13	superior conj	5288 Jun 15 05:28	27° Ⅱ 51'08	0°00'37
evening rise	5287 Jul 08 19:48 5287 Jul 09 14:38	0°Ω		minimum elong	5288 Jun 15 05:26	27° II 50'58	0°00'36
	5287 Jul 26 13:06	0° m		behind sun begin	5288 Jun 15 00:05	27° I I22'15	0 00 30
evening max el	5287 Aug 03 00:16	8° Mp 43'58	24°27'00	behind sun end	5288 Jun 15 10:48	28° I I19'42	
desc. node	5287 Aug 04 13:36	10° m 09'21	2.2,00	asc. node	5288 Jun 15 04:05	27° I I43'39	
retrograde	5287 Aug 16 20:47	15° mp 42'52		use. Hour	5288 Jun 16 05:29	0°9	
evening set	5287 Aug 21 20:45	14° Mp 47'06		evening rise	5288 Jun 22 07:27	13°904'07	
min. Earth dist.	5287 Aug 27 11:21	11° m 55'23	0.56675 AU	C	5288 Jun 30 21:05	$0^{\circ}\Omega$	
inferior conj	5287 Aug 30 03:00	10° Mp 14'25		evening max el	5288 Jul 14 13:13	19° Ω 05'28	22°49'29
minimum elong	5287 Aug 30 01:57	10° m 16'05	5°17'57	desc. node	5288 Jul 21 10:36	24° Ω 09'07	
morning rise	5287 Sep 07 09:36	6° Mp 11'39		retrograde	5288 Jul 27 19:42	25° Ω 42'19	
direct	5287 Sep 10 01:22	5° m 52'33		evening set	5288 Jul 31 07:07	25° Ω 15'54	
morning max el	5287 Sep 19 14:55	10° Mp 21'20	19°32'55	min. Earth dist.	5288 Aug 07 21:31	21° £ 53′33	0.55320 AU
asc. node	5287 Sep 25 06:16	17° Mp 06'47		inferior conj	5288 Aug 09 07:52	21° Ω 04'18	-4°45'08
	5287 Oct 02 20:02	0∘ ত		minimum elong	5288 Aug 09 00:37	21° Ω 14'44	4°43'51
morning set	5287 Oct 07 00:55	8° ≏ 15'56		morning rise	5288 Aug 17 20:12	17° Ω 13'54	
				direct	5288 Aug 20 20:53	16° Ω 52'31	
superior conj	5287 Oct 15 00:05	24° £ 14'44	1°37'34	morning max el	5288 Aug 31 23:56	22° Ω 03′27	20°50'10
minimum elong	5287 Oct 15 02:02	24° ≏ 24'17	1°37'27		5288 Sep 07 16:02	0° m ∕	
	5287 Oct 17 23:13	0°M₊		asc. node	5288 Sep 11 03:18	5° m ,25'12	
max. Earth dist.	5287 Oct 21 04:33	6°M03'50	1.37738 AU	morning set	5288 Sep 20 08:16	22° m 58'01	
evening rise	5287 Oct 24 22:37	12°M51'24			5288 Sep 23 17:28	0∘ ত	
desc. node	5287 Oct 31 12:49	24°M06'17					
	5287 Nov 04 04:43	0° ∡		superior conj	5288 Sep 27 18:48	8° £ 24'37	1°43'10
	5287 Nov 26 01:17	0°る 2° ろ 44124	2501400	minimum elong	5288 Sep 27 19:12	8° £ 26'38	1°43'11
evening max el	5287 Nov 29 14:35	3°₹44'24	25~14'08	max. Earth dist.	5288 Oct 02 13:06	17° £ 58'24	1.35807 AU
retrograde	5287 Dec 11 14:23	10°る39'58		evening rise	5288 Oct 06 14:00	25° Ω 41'38	
evening set	5287 Dec 17 09:09	8°る15'44 3°る18'19	0.67402 411	daga == -1-	5288 Oct 08 22:15	0°M	
min. Earth dist. asc. node	5287 Dec 21 20:14 5287 Dec 22 05:32	3°る18'19 2° る 48'12	0.67402 AU	desc. node	5288 Oct 17 09:52 5288 Oct 27 16:12	14° M .31'19 0° ∡ 7	
inferior conj	5287 Dec 22 03:32 5287 Dec 22 23:17	1°る50'20	0°15'03	evening max el	5288 Oct 27 16:12 5288 Nov 11 03:25	0° × ° 17° × ⁷ 28'11	26°19'09
minimum elong	5287 Dec 22 23:17 5287 Dec 22 22:54	1°る50'20' 1°る51'34		retrograde	5288 Nov 11 03:25 5288 Nov 23 21:42	24° 🗷 39'27	40 17 U7
transit middle	5287 Dec 22 22:54 5287 Dec 22 22:54	1 03134 1° る 51'34		evening set	5288 Nov 30 05:44	24 x ·3927 22° x ⁷ 04'35	
transit begin	5287 Dec 22 22:54 5287 Dec 22 21:50	1°る55'04	J 17 <i>JJ</i>	min. Earth dist.	5288 Dec 04 09:59	17° × ⁷ 42'24	0.66512 AU
transit oogiii	520, 1500 22 21.50	. 03304		mm. Darm dist.	5255 Dec 07 07.59	11 7 74 47	0.00312 AU

inferior conj	5288 Dec 06 00:19	15° ∡ 745'20	0°42'47	retrograde	5289 Nov 06 23:20	8° ₹ 20'14	
minimum elong	5288 Dec 06 00:19	15° $\sqrt{4}$ 320	0°42'17	evening set	5289 Nov 00 23:20 5289 Nov 13 18:51	5° × 40'20	
asc. node	5288 Dec 08 01:29 5288 Dec 08 02:32	13° 🖈 17'03	0 42 17	min. Earth dist.	5289 Nov 17 16:45	1°×753'32	0.65264 AU
morning rise	5288 Dec 08 02:32 5288 Dec 11 21:50	9° х 58'14		iiiii. Lattii tiist.	5289 Nov 17 10:43 5289 Nov 19 09:11	30°RM	0.03204 AU
direct	5288 Dec 14 22:53	9° × 05'43		inferior conj	5289 Nov 19 05:11 5289 Nov 19 18:59	29°M32'18	1044'44
morning max el	5288 Dec 14 22:33 5288 Dec 21 15:13	12° × ⁷ 44'50	18°38'53	minimum elong	5289 Nov 19 18:39 5289 Nov 19 22:00	29°M23'48	1°43'29
morning max ci	5289 Jan 03 05:25	12 × 44 30	16 36 33	asc. node	5289 Nov 19 22:00 5289 Nov 24 23:33	24°M35'48	1 43 29
morning set	5289 Jan 11 12:57	13°る04'49		morning rise	5289 Nov 24 23:33 5289 Nov 26 02:11	23°M58'00	
desc. node	5289 Jan 13 09:05	15° る 59'07		direct	5289 Nov 28 18:54	23°M18'58	
desc. node	5289 Jan 22 06:53	0° ≈		morning max el	5289 Dec 05 06:15	26°M46'22	18°06'11
	3289 Jan 22 00.33	0 ~		morning max ci	5289 Dec 03 00:13 5289 Dec 08 02:09	20 11 0 40 22	18 00 11
superior conj	5289 Jan 27 17:45	8° ≈ 33'03	1020122	morning set	5289 Dec 08 02:09 5289 Dec 23 11:32	23° х 56'30	
minimum elong	5289 Jan 27 17.43 5289 Jan 27 08:20	8 ≈33 03 7°≈56'08	1°28'24	morning set	5289 Dec 23 11:32 5289 Dec 27 04:11	23 メ -3030	
max. Earth dist.	5289 Jan 27 08:20 5289 Jan 27 07:56	7°≈54'33	1.45299 AU	desc. node	5289 Dec 31 06:09	6° る 37'42	
max. Earm dist.	5289 Feb 10 07:45	/ ≈3433 0° \	1.43299 AU	desc. node	3289 Dec 31 00.09	0 03/42	
avanina riaa		0 X 3° ¥ 14'11		gumariar aani	5290 Jan 06 23:37	170至22147	0945120
evening rise	5289 Feb 12 08:25	16°) €05'46	0.0	superior conj		17°る22'47 17°る00'31	
greatest brilliancy	5289 Feb 20 09:40		-0.8m	minimum elong	5290 Jan 06 18:00		0°44'52
	5289 Mar 01 15:42	0° Υ	10050120	max. Earth dist.	5290 Jan 10 03:45	22° る 23'03	1.45196 AU
evening max el	5289 Mar 05 22:41	5° Υ 09'09	18°50'30		5290 Jan 15 00:30	0° ≈	
asc. node	5289 Mar 06 01:50	5°Υ17'06		evening rise	5290 Jan 23 06:30	12°≈49'07	
retrograde	5289 Mar 12 16:02	8° Ƴ 54'19			5290 Feb 03 10:41	0° ∀	
evening set	5289 Mar 15 22:55	7° Y 52'10		greatest brilliancy	5290 Feb 05 07:24	2°) (48'19	
inferior conj	5289 Mar 21 13:50	2° Υ 10'29	3°30'20	evening max el	5290 Feb 17 05:30	18°) 41′55	19°37'58
minimum elong	5289 Mar 21 13:02	2° Y 12'57	3°30'16	asc. node	5290 Feb 20 22:51	21°) 47'12	
	5289 Mar 23 07:54	30°Ŗ ℋ		retrograde	5290 Feb 24 13:27	22° ∺ 55'33	
min. Earth dist.	5289 Mar 23 07:52	0° Y 00'06	0.65584 AU	evening set	5290 Feb 28 03:53	21°) 39′35	
morning rise	5289 Mar 27 02:43	25° 升 56'35		inferior conj	5290 Mar 05 14:21	15°) (42′43	3°16'08
direct	5289 Apr 02 16:00	23°) €06'54		minimum elong	5290 Mar 05 12:34	15°) (48′40	3°15'51
desc. node	5289 Apr 11 08:21	26°) 51'43		min. Earth dist.	5290 Mar 06 17:30	14°) (13′01	0.66831 AU
	5289 Apr 14 22:07	0 ° Υ		morning rise	5290 Mar 10 21:00	9° ∺ 27'46	
morning max el	5289 Apr 15 19:10	0° Y 52'06	26°48'13	direct	5290 Mar 16 23:06	6°) 44'59	
	5289 May 07 12:05	9° 8		morning max el	5290 Mar 29 04:47	14° ₩ 03'19	25°36'08
morning set	5289 May 21 15:42	24° 8 45'17		desc. node	5290 Mar 29 05:23	14° ₩ 04'51	
	5289 May 24 08:40	$\Pi^{\circ}0$			5290 Apr 11 04:13	0° Y	
max. Earth dist.	5289 May 25 22:36	3° Ⅱ 08'18	1.34284 AU		5290 Apr 30 07:08	$8^{\circ 0}$	
				morning set	5290 May 04 09:30	7° 8 18'12	
superior conj	5289 May 30 06:03	11° Ⅱ 56'40	-0°28'32	max. Earth dist.	5290 May 08 03:31	14° 8 16'39	1.35982 AU
minimum elong	5289 May 30 07:35	12° Ⅱ 04'39	0°28'13				
asc. node	5289 Jun 02 01:06	17° Ⅱ 48′02		superior conj	5290 May 13 22:12	25° 8 33'16	-0°58'28
evening rise	5289 Jun 06 17:21	27° Ⅱ 38'39		minimum elong	5290 May 14 01:28	25° 8 49'36	0°57'53
C	5289 Jun 07 20:37	0°ಅ		· ·	5290 May 16 03:05	$\Pi^{\circ}0$	
evening max el	5289 Jun 26 08:38	29°538'17	21°16'48	asc. node	5290 May 19 22:10	7° Ⅱ 45'30	
Č	5289 Jun 26 17:38	$0^{\circ}\Omega$		evening rise	5290 May 21 23:24	11° Ⅱ 57′08	
retrograde	5289 Jul 08 09:12	5° Ω 34'11		Ü	5290 May 31 13:04	0°ಅ	
desc. node	5289 Jul 08 07:38	5° Ω 34'10		evening max el	5290 Jun 08 16:00	10°5547'29	19°59'37
evening set	5289 Jul 10 17:11	5° Ω 21'35		retrograde	5290 Jun 19 00:14	15° © 51'16	
inferior conj	5289 Jul 20 01:33	1° Ω 22'57	-3°20'56	evening set	5290 Jun 20 22:13	15°5541'36	
minimum elong	5289 Jul 19 17:02	1° Ω 34'53		desc. node	5290 Jun 25 04:39	14°9518'29	
min. Earth dist.	5289 Jul 20 07:39		0.54786 AU	inferior conj	5290 Jun 29 22:17	11°5541'27	-1°25'00
	5289 Jul 22 13:43	30°Rூ		minimum elong	5290 Jun 29 18:19	11°5947'26	1°23'32
morning rise	5289 Jul 28 17:34	27° 5 27'52		min. Earth dist.	5290 Jul 01 19:53		0.55211 AU
direct	5289 Aug 01 06:08	27°501'07		morning rise	5290 Jul 08 12:40	7° 5 21'04	0.00211110
ancet	5289 Aug 10 03:19	0°Ω		direct	5290 Jul 12 18:30	6°5541'46	
morning max el	5289 Aug 13 21:31	3° Ω 00'26	22°25'32	morning max el	5290 Jul 26 12:18	13°527'34	24°09'32
asc. node	5289 Aug 29 00:20	24° Ω 19'59	22 23 32	morning max ci	5290 Aug 08 07:20	0°Ω	24 07 32
asc. node	5289 Aug 31 23:12	0° m		asc. node	5290 Aug 15 21:24	13° Ω 42'06	
morning set	5289 Sep 04 18:41	7° Mp 47'59		morning set	5290 Aug 13 21:24 5290 Aug 20 06:22	22° Ω 40'39	
morning set	3207 Sep 04 10.41	/ III/+/39		morning set	5290 Aug 20 06.22 5290 Aug 23 16:07	0° m	
superior comi	5280 San 11 21:27	220 m 56156	1°41'37		3430 Aug 43 10.0/	עוו ט	
superior conj	5289 Sep 11 21:27	22° M 56'56	1°41'37 1°41'35	superior coni	5200 Aug 27 05:16	70 mm 12122	1022156
minimum elong	5289 Sep 11 20:32	22° Mp 52'06		superior conj	5290 Aug 27 05:16	7° Mp 43'23	1°33'56
max. Earth dist.	5289 Sep 15 05:26	29° m 55'34	1.34208 AU	minimum elong	5290 Aug 27 03:28	7° Mp 33'33	1°33'46
ovenie – -i-	5289 Sep 15 06:18	0∘ で		max. Earth dist.	5290 Aug 29 06:17	12° Mp 07'53	1.33020 AU
evening rise	5289 Sep 19 20:34	9° Ω 13'40		evening rise	5290 Sep 03 14:27	23° Mp 17'16	
daga ::	5289 Oct 01 09:52	0°M		daga J-	5290 Sep 06 23:59	ე∘ <u>ი</u>	
desc. node	5289 Oct 04 06:55	4°M37'55		desc. node	5290 Sep 21 03:57	24° Ω 18'09	
i- 1	5289 Oct 23 14:37	0°⊀ ⁷	27905120		5290 Sep 25 02:21	0°M	27027141
evening max el	5289 Oct 24 16:11	1°×'02'35	27°05'39	evening max el	5290 Oct 07 03:33	14°M16'10	2/~26'41

Tranctary Tricin	mena of wicicury	110111 5100 1	inough 5002 (O1), Astrodictist	AG 16-1-00-2023 1	4.21, pa	.gc 103
retrograde	5290 Oct 20 18:52	21°M33'42		evening max el	5291 Sep 19 11:27	26° £ 57'00	27°16'46
evening set	5290 Oct 27 21:45	18° M ⋅57'25		<i>S</i>	5291 Sep 23 01:16	0°M	
min. Earth dist.	5290 Oct 31 14:31	15° M 43'31	0.63674 AU	retrograde	5291 Oct 03 07:37	4° ™ 10'40	
inferior conj	5290 Nov 03 04:41	13°M05'28		evening set	5291 Oct 10 10:54	1°M49'40	
minimum elong	5290 Nov 03 09:36	12°M52'58		C	5291 Oct 12 22:21	30° ₽ Ω	
morning rise	5290 Nov 09 22:58	7° M 47'03		min. Earth dist.	5291 Oct 14 02:02	29° ≙ 01'28	0.61794 AU
asc. node	5290 Nov 11 20:37	7° ™ 19'16		inferior conj	5291 Oct 17 02:29	26° £ 17'55	
direct	5290 Nov 12 09:42	7° IL 17'47		minimum elong	5291 Oct 17 08:42	26° ഫ 03'50	3°48'27
morning max el	5290 Nov 18 23:11	10°M42'39	17°50'40	morning rise	5291 Oct 24 08:25	21° ≏ 18'31	
C	5290 Dec 02 00:00	0° ≯ ¹		direct	5291 Oct 26 16:04	20° ≏ 55'31	
morning set	5290 Dec 05 12:47	6° ₺ 05'23		asc. node	5291 Oct 29 17:41	21° ≏ 37'14	
C				morning max el	5291 Nov 02 14:52	24° ≏ 26'13	17°53'13
superior conj	5290 Dec 18 00:21	27° √ 10′28	0°00'50	Ü	5291 Nov 07 03:29	0°M	
minimum elong	5290 Dec 18 00:26	27° х 10′50	0°00'51	morning set	5291 Nov 18 10:21	19° M ₊12'30	
behind sun begin	5290 Dec 17 14:44	26° х 31′01		<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	5291 Nov 24 10:16	0° ∡ 7	
behind sun end	5290 Dec 18 10:08	27° × ⁷ 50'34					
desc. node	5290 Dec 18 03:13	27° × ⁷ 22'15		superior conj	5291 Nov 29 03:24	8° ∡ 15′08	0°40'58
	5290 Dec 19 17:54	0°る		minimum elong	5291 Nov 29 06:45	8° х 29'34	0°40'29
max. Earth dist.	5290 Dec 23 21:51	6° る 42'08	1.44370 AU	desc. node	5291 Dec 05 00:13	18° × 09'11	0 .029
evening rise	5291 Jan 02 17:04	22°る01'52	1.11370110	max. Earth dist.	5291 Dec 06 11:55	20° ∡ 35'59	1.42930 AU
evening rise	5291 Jan 07 22:23	0° ≈		max. Dartii dist.	5291 Dec 12 08:25	0°る	1.12,50710
	5291 Jan 29 05:17	0° ₩		evening rise	5291 Dec 12 00:25 5291 Dec 13 07:54	0 3 1° る 32'18	
evening max el	5291 Jan 31 07:01	2°) 15'42	20°30'56	evening rise	5292 Jan 01 11:15	0°≈	
asc. node	5291 Feb 07 19:53	7°) 03'12	20 37 30	evening max el	5292 Jan 14 03:11		21°52'52
retrograde	5291 Feb 08 11:48	7° X 05'12		retrograde	5292 Jan 23 09:05	21°≈21'01	21 32 32
evening set	5291 Feb 12 11:08	5° ∺ 35'03		asc. node	5292 Jan 25 16:55	21°≈52'15	
evening set	5291 Feb 17 09:27	30°R≈		evening set	5292 Jan 27 18:55	20 ≈32 13 19°≈35'12	
inferior conj	5291 Feb 17 19:30	30 k∞ 29°≈25'37	2°51'01	inferior conj	5292 Feb 02 03:04	13°≈16'22	2016/52
minimum elong	5291 Feb 17 17:10	29°≈33'36	2°50'29	minimum elong	5292 Feb 02 03:04 5292 Feb 02 00:42	13 ≈10 22 13°≈24'36	2°16'09
C				Č			0.68071 AU
min. Earth dist.	5291 Feb 18 09:10	28°≈38'42	0.67653 AU	min. Earth dist.	5292 Feb 02 04:35	13°≈11'06	0.080/1 AU
morning rise	5291 Feb 22 23:01	23°≈11'36		morning rise	5292 Feb 07 06:18	7°≈04'57	
direct	5291 Feb 28 11:29	20°≈44'28	24010110	direct	5292 Feb 12 04:15	4°≈58'42	22940157
morning max el	5291 Mar 11 13:31	27°≈21'55	24°10'18	morning max el	5292 Feb 21 23:29	10°≈46'20	22°40'57
1 1	5291 Mar 14 00:49	0°) (22100		desc. node	5292 Mar 01 23:27	21°≈28'25	
desc. node	5291 Mar 16 02:25	2°) €23'09			5292 Mar 08 04:05	0°) (°43°	
. ,	5291 Apr 04 20:02	0°Υ 100 Υ 40122		morning set	5292 Mar 27 02:25	29°) €04'30	
morning set	5291 Apr 16 07:03	18° ℃ 49'33	1 20027 111	P. 4 P.	5292 Mar 27 15:53	0°Υ	1 10010 177
max. Earth dist.	5291 Apr 20 00:01	25° Y 21'34	1.38037 AU	max. Earth dist.	5292 Mar 31 19:38	6° Ƴ 58'43	1.40243 AU
	5291 Apr 22 13:22	0°B			5000 4 00 14 40	2000041140	1051100
	5201 4 27 02 20	00 4 2 112 4	1007100	superior conj	5292 Apr 08 14:42	20° Υ 41'49	
superior conj	5291 Apr 27 02:30	8° 8 31'34		minimum elong	5292 Apr 08 19:38	21° Υ 04'14	1°50'55
minimum elong	5291 Apr 27 07:11	8° 8 54'00	1°26'29		5292 Apr 13 15:37	0°8	
evening rise	5291 May 05 22:58	25° 8 51'38		evening rise	5292 Apr 18 12:58	9° 8 14'29	
asc. node	5291 May 06 19:12	27° 8 31'06		asc. node	5292 Apr 22 16:13	17° 8 00'09	
	5291 May 08 01:40	0°II			5292 Apr 30 10:34	0° П	
evening max el	5291 May 22 11:31	22° ∏ 39'10	19°02'10	evening max el	5292 May 04 16:20	5° Ⅱ 07'47	18°25'04
retrograde	5291 May 31 04:21	26° ∏ 54'45		retrograde	5292 May 12 03:13	8° Ⅱ 49'35	
evening set	5291 Jun 02 04:54	26° Ⅱ 41'53	000015 5	evening set	5292 May 14 10:38	8° Ⅱ 29'19	105000
inferior conj	5291 Jun 10 10:50	22° II 28'03	0°28'30	inferior conj	5292 May 21 20:42	3° Ⅱ 55'41	1°56'23
minimum elong	5291 Jun 10 11:58	22° I I26'04	0°28'04	minimum elong	5292 May 22 00:05	3° Ⅱ 48'49	1°55'22
desc. node	5291 Jun 12 01:40	21° Ⅱ 20′23		min. Earth dist.	5292 May 25 07:03	1° Ⅱ 09'52	0.58454 AU
min. Earth dist.	5291 Jun 13 11:18	20° Ⅲ 23′05	0.56522 AU		5292 May 26 21:10	30° ₹ 8	
morning rise	5291 Jun 18 15:45	17° Ⅱ 31'44		desc. node	5292 May 28 22:42	28° 8 42'20	
direct	5291 Jun 23 19:57	16° Ⅱ 28'33		morning rise	5292 May 29 10:22	28° 8 26'40	
morning max el	5291 Jul 08 02:27	23° ∏ 49′56	25°47'25	direct	5292 Jun 04 11:38	26° 8 50'47	
	5291 Jul 13 16:50	0 \circ \odot			5292 Jun 13 09:01	Π °0	
	5291 Aug 01 02:22	0 \circ Ω		morning max el	5292 Jun 18 20:55	4° ∏ 34'07	27°03'20
asc. node	5291 Aug 02 18:28	3° Ω 23'52			5292 Jul 07 12:22	0 \circ \odot	
morning set	5291 Aug 04 17:43	7° Ω 30'57		morning set	5292 Jul 19 03:04	22° © 13'21	
				asc. node	5292 Jul 19 15:30	23° © 18'57	
superior conj	5291 Aug 11 16:04	22° Ω 36′50	1°20'58		5292 Jul 22 18:01	$0 ^{\circ} \Omega$	
minimum elong	5291 Aug 11 13:48	22° Ω 24'25	1°20'39				
max. Earth dist.	5291 Aug 12 13:46	24° Ω 36'11	1.32260 AU	superior conj	5292 Jul 26 03:52	7° Ω 30′29	1°03'22
	5291 Aug 15 01:08	0° m		minimum elong	5292 Jul 26 01:38	7° Ω 18'09	1°02'58
evening rise	5291 Aug 18 16:24	7° m 43'23		max. Earth dist.	5292 Jul 26 00:42	7° Ω 12'55	1.31927 AU
	5291 Aug 30 10:39	0∘ ⊽		evening rise	5292 Aug 01 23:45	22° Ω 23′26	
desc. node	5291 Sep 08 00:58	13° ≏ 21'27			5292 Aug 05 16:21	0° ™	

	5292 Aug 23 17:15	0∘ ত		desc. node	5293 Aug 11 18:59	18° m 29'14	
desc. node	5292 Aug 24 21:59	1° ≏ 32'13		evening max el	5293 Aug 13 07:29	20° m 00'11	25°19'14
evening max el	5292 Aug 31 13:19	8° ≙ 53'12	26°33'13	retrograde	5293 Aug 27 05:53	27° Mp 03'40	
retrograde	5292 Sep 14 11:54	16° ≙ 01'48		evening set	5293 Sep 02 01:02	25° Mp 46'18	
evening set	5292 Sep 21 05:33	14° ≏ 08'20		min. Earth dist.	5293 Sep 06 19:09	23°M 06'05	0.57723 AU
min. Earth dist.	5292 Sep 25 03:01	11° ≏ 32'59	0.59743 AU	inferior conj	5293 Sep 09 20:17	21°M/01'09	-5°15'02
inferior conj	5292 Sep 28 08:47	8° £ 59'41	-4°42'57	minimum elong	5293 Sep 09 22:42	20° m 57'00	5°14'53
minimum elong	5292 Sep 28 14:38	8° ≏ 48'06	4°41'50	morning rise	5293 Sep 17 22:38	16° Mp46′38	
morning rise	5292 Oct 06 01:50	4° £ 22'05		direct	5293 Sep 20 10:52	16° Mp 27′43	
direct	5292 Oct 08 09:53	4° ഫ 02'19		morning max el	5293 Sep 29 04:56	20° M 36'46	18°58'15
asc. node	5292 Oct 15 14:44	7° £ 21'05		asc. node	5293 Oct 02 11:46	24° Mp 16'32	
morning max el	5292 Oct 16 01:54	7° ≏ 47'19	18°15'13		5293 Oct 06 10:45	0∘ ত	
	5292 Oct 30 08:11	0°M		morning set	5293 Oct 15 20:11	17° ≙ 15'30	
morning set	5292 Oct 31 22:17	2°M59'58			5293 Oct 22 07:34	o° m ₊	
superior conj	5292 Nov 10 06:45	20°M29'49	1°10'58	superior conj	5293 Oct 24 05:18	3°M40'34	1°30'34
minimum elong	5292 Nov 10 10:37	20°M47'20	1°10'31	minimum elong	5293 Oct 24 08:07	3°M54'02	1°30'21
	5292 Nov 15 15:05	0° ∡ ¹		max. Earth dist.	5293 Oct 31 02:52	16° ™ 27'40	1.38947 AU
max. Earth dist.	5292 Nov 17 21:15	3° ₹ 152'45	1.41046 AU	evening rise	5293 Nov 03 23:12	23°M12'31	
desc. node	5292 Nov 20 21:14	8° ∡ ¹54'59		desc. node	5293 Nov 07 18:15	29°M36'03	
evening rise	5292 Nov 22 16:10	11° √ 51'35			5293 Nov 08 00:03	0° ⊼	
C	5292 Dec 04 07:25	8°0			5293 Nov 28 04:01	0°ರ	
evening max el	5292 Dec 26 19:03	29° る 29'36	23°12'00	evening max el	5293 Dec 09 08:17	13° る 11'03	24°31'12
Č	5292 Dec 27 07:20	0° ≈		retrograde	5293 Dec 20 18:38	19° る 51'47	
retrograde	5293 Jan 06 03:44	5° ≈ 37'40		evening set	5293 Dec 26 05:47	17°₹35'04	
evening set	5293 Jan 11 01:39	3° ≈ 36'10		asc. node	5293 Dec 29 11:00	14° පි 08'36	
asc. node	5293 Jan 11 13:58	3°≈09'02		min. Earth dist.	5293 Dec 30 21:05	12° る 18'08	0.67762 AU
use. noue	5293 Jan 14 09:11	30°R₹		inferior conj	5293 Dec 31 17:53	11°る08'42	0°46'00
inferior conj	5293 Jan 16 11:07	27° ට 11'31	1°34'53	minimum elong	5293 Dec 31 16:48	11°る12'19	
minimum elong	5293 Jan 16 09:10	27° ප 18'15	1°34'10	morning rise	5294 Jan 06 03:56	5° ರ 07'44	0 1331
min. Earth dist.	5293 Jan 16 01:19	27° ප් 45'18	0.68101 AU	direct	5294 Jan 09 22:20	3°₹46'30	
morning rise	5293 Jan 21 16:36	21°る4318	0.00101 AC	morning max el	5294 Jan 17 13:07	8° る 05'18	20°03'50
direct	5293 Jan 26 00:16	19°る21'03		morning max ci	5294 Feb 02 22:42	0°≈	20 03 30
morning max el	5293 Feb 03 14:28	19 3 21 03	21°16'50	desc. node	5294 Feb 02 22:42 5294 Feb 03 17:28	0 ∞ 1°≈10'04	
morning max er	5293 Feb 03 14:28 5293 Feb 08 14:17	24 O1947 0°≈	21 10 30	morning set	5294 Feb 13 14:34	1 ≈10 04 16°≈11'53	
daga mada		0 ≈ 11°≈07'07		morning set	5294 Feb 13 14.34 5294 Feb 22 10:24	10 ≈11 33 0° \	
desc. node	5293 Feb 16 20:28 5293 Mar 01 13:57	0° \		max. Earth dist.			1.43960 AU
. ,				max. Earth dist.	5294 Feb 24 06:56	2°π3/19	1.43900 AU
morning set	5293 Mar 06 17:27	8° ₩ 00'20	1 42200 411		520436 01 10 47	110\(5412	2007110
max. Earth dist.	5293 Mar 13 21:26	19°π31′43 0°Υ	1.42308 AU	superior conj	5294 Mar 01 19:47	11° X 54'13	
	5293 Mar 20 03:36	O Y		minimum elong	5294 Mar 01 16:58	11°) 42'39	2.07.13
	5000) (01 05 51	100050104	2006126		5294 Mar 12 14:52	0°Υ	
superior conj	5293 Mar 21 05:51	1° Y 52′24		evening rise	5294 Mar 14 20:04	3°Υ48'30	
minimum elong	5293 Mar 21 08:32	2°Υ03'55	2°06'31	asc. node	5294 Mar 27 10:16	24° Y 43'13	
evening rise	5293 Apr 01 13:29	21°Υ56'44			5294 Mar 31 10:20	0° 8	10000156
	5293 Apr 06 00:49	0° 8		evening max el	5294 Apr 01 15:35	1° 8 18'06	18°09'56
asc. node	5293 Apr 09 13:14	6° 8 06'51		retrograde	5294 Apr 08 01:42	4° 8 40'55	
evening max el	5293 Apr 18 02:49	18° 8 04'04	18°07'52	evening set	5294 Apr 10 22:15	3° 8 59'04	
retrograde	5293 Apr 24 19:49	21° 8 28'47			5294 Apr 15 21:44	30°RƳ	2022122
evening set	5293 Apr 27 10:06	20° 8 58'27		inferior conj	5294 Apr 17 02:10	28° Y 44'57	
inferior conj	5293 May 04 03:04	16° 8 04'00		minimum elong	5294 Apr 17 03:45	28° Y 40'42	
minimum elong	5293 May 04 06:07	15° 8 56'48	2°52'40	min. Earth dist.	5294 Apr 19 20:22	25° Y 48'27	0.62789 AU
min. Earth dist.	5293 May 07 09:19	13° 8 00'51	0.60647 AU	morning rise	5294 Apr 23 07:56	22° Y 39'07	
morning rise	5293 May 10 23:54	10° 8 11'48		direct	5294 Apr 30 04:15	20° Y 04'08	
desc. node	5293 May 15 19:42	8° 8 12'07		desc. node	5294 May 02 16:43	20° Y 23′12	
direct	5293 May 17 15:07	8° 8 02'40		morning max el	5294 May 14 04:41	28° Y 04'31	27°50'31
morning max el	5293 May 31 21:59	15° 8 58'14	27°45'51		5294 May 16 01:03	0°B	
	5293 Jun 12 09:20	$\Pi^{\circ}0$			5294 Jun 06 04:01	0° Ⅱ	
	5293 Jun 30 00:59	0 \circ \odot		morning set	5294 Jun 17 08:19	20° Ⅱ 51′09	
morning set	5293 Jul 03 08:39	6°9542'34			5294 Jun 21 18:19	0	
asc. node	5293 Jul 06 12:31	13° © 22'29		max. Earth dist.	5294 Jun 22 17:46	2° © 04'51	1.32536 AU
max. Earth dist.	5293 Jul 09 11:24	19° 5 47'10	1.32017 AU	asc. node	5294 Jun 23 09:32	3° 5 29'23	
superior conj	5293 Jul 10 15:00	22° © 18'45	0°41'40	superior conj	5294 Jun 24 23:37	6° © 54'59	
minimum elong	5293 Jul 10 13:16	22° © 09'13	0°41'19	minimum elong	5294 Jun 24 22:50	6° 9 50'47	0°16'16
	5293 Jul 14 02:49	$0^{\circ}\Omega$		evening rise	5294 Jul 01 22:06	21° © 57'10	
evening rise	5293 Jul 17 10:19	7° Ω 10′29			5294 Jul 05 19:11	0 ° Ω	
	5293 Jul 29 06:57	0° m			5294 Jul 25 08:21	0° m p	

evening max el	5294 Jul 25 20:05	0° m 28'46	23°45'42	behind sun begin	5295 Jun 09 00:30	20° Ⅱ 56'17	
desc. node	5294 Jul 29 16:00	3° Mp 43'10	23 .0 .2	behind sun end	5295 Jun 09 08:16	21° I I37'25	
retrograde	5294 Aug 08 12:10	7° m/20'51		asc. node	5295 Jun 10 06:34	23° II 35'52	
evening set	5294 Aug 12 20:49	6° m 39'00			5295 Jun 13 06:27	0ಂತ	
min. Earth dist.	5294 Aug 19 06:09	-	0.56021 AU	evening rise	5295 Jun 16 09:15	6°937'43	
inferior conj	5294 Aug 21 11:27	2° m/ 15'34	-5°10'24	C	5295 Jun 28 21:12	$0^{\circ}\Omega$	
minimum elong	5294 Aug 21 07:33	2° m 21'29	5°10'03	evening max el	5295 Jul 07 10:41	10° £ 50′36	22°08'36
	5294 Aug 25 11:01	30°₽ Ω		desc. node	5295 Jul 16 13:01	16° Ω 40′18	
morning rise	5294 Aug 29 20:47	28° Ω 20′03		retrograde	5295 Jul 20 06:45	17° Ω 12'51	
direct	5294 Sep 01 16:06	28° Ω 00′16		evening set	5295 Jul 23 04:17	16° Ω 54'12	
	5294 Sep 08 07:22	O° Mp		min. Earth dist.	5295 Jul 31 16:13	13° Ω 14′27	0.54979 AU
morning max el	5294 Sep 11 21:02	2°M/45'10	20°03'18	inferior conj	5295 Aug 01 10:09	12° Ω 49'14	-4°15'09
asc. node	5294 Sep 19 08:48	12°Mp08'10		minimum elong	5295 Aug 01 01:30	13° Ω 01′24	4°13'05
	5294 Sep 29 03:08	0∘ ⊽		morning rise	5295 Aug 10 00:25	8° Ω 59'12	
morning set	5294 Sep 30 00:47	1° ≏ 49'40		direct	5295 Aug 13 05:22	8° Ω 36′16	
				morning max el	5295 Aug 25 01:02	14° Ω 07'48	21°28'57
superior conj	5294 Oct 07 17:54	17° ≏ 32'31	1°40'54		5295 Sep 05 19:57	0° m)	
minimum elong	5294 Oct 07 19:10	17° ≏ 38'53	1°40'51	asc. node	5295 Sep 06 05:50	0° m ,43′07	
max. Earth dist.	5294 Oct 13 08:27	28° £ 29'14	1.36882 AU	morning set	5295 Sep 14 09:38	16° m/35'25	
	5294 Oct 14 03:42	0°M			5295 Sep 20 18:42	0∘ ⊽	
evening rise	5294 Oct 17 03:48	5°M32'31					
desc. node	5294 Oct 25 15:17	20°M08'16		superior conj	5295 Sep 21 16:22	1° £ 53'07	1°43'19
	5294 Oct 31 21:41	0°×7	25042122	minimum elong	5295 Sep 21 16:10	1° £ 52'04	1°43'19
evening max el	5294 Nov 21 20:46	26°♂54'40 0°る	25°43'33	max. Earth dist.	5295 Sep 25 19:36	10° Ω 20'44 18° Ω 41'48	1.35075 AU
ratra ara da	5294 Nov 25 08:02	0°る 3° る 58'38		evening rise	5295 Sep 30 02:09 5295 Oct 06 06:46	0°M	
retrograde evening set	5294 Dec 04 05:04 5294 Dec 10 05:42	1° る 29'02		desc. node	5295 Oct 10 06:46 5295 Oct 12 12:19	10°M26'06	
evening set	5294 Dec 11 19:25	1 02902 30°R <i>X</i> ⁷		desc. node	5295 Oct 26 01:20	10 1162606 0° ∡ 7	
min. Earth dist.	5294 Dec 11 19:23 5294 Dec 14 13:41	26° √ 146'46	0.67064 AU	evening max el	5295 Nov 04 09:30	0 x ⁴ 10° x ³35'11	26°41'41
inferior conj	5294 Dec 15 21:35	25°× 7 05'33		retrograde	5295 Nov 17 10:16	17° 🖈 53 11	20 41 41
minimum elong	5294 Dec 15 21:48	25°× 03'33	0°08'47	evening set	5295 Nov 23 23:25	15° х 13'09	
transit middle	5294 Dec 15 21:48	25° х 04'49	0°08'47	min. Earth dist.	5295 Nov 28 00:48	11° × ⁷ 06'03	0.66016 AU
transit begin	5294 Dec 15 19:27	25°×12'20	0 00 17	inferior conj	5295 Nov 29 20:11	8° ∡ 757'45	
transit end	5294 Dec 16 00:10	24° × 757'18		minimum elong	5295 Nov 29 22:07	8° ₹ ¹52'03	1°07'53
asc. node	5294 Dec 16 08:02	24° ∡ ³32′28		asc. node	5295 Dec 03 05:04	5° ∡ 16'26	
morning rise	5294 Dec 21 14:21	19° ∡ 12'49		morning rise	5295 Dec 05 21:38	3° ∡ 15'44	
direct	5294 Dec 24 21:06	18° ∡ 11′00		direct	5295 Dec 08 18:44	2° ∡ ¹29'34	
morning max el	5294 Dec 31 19:39	22° ₹ '01'34	19°05'20	morning max el	5295 Dec 15 08:17	6° ∡¹ 02'57	18°22'54
-	5295 Jan 07 07:49	8°0		_	5295 Dec 31 22:52	ರ°0	
desc. node	5295 Jan 21 14:30	21° る 30'53		morning set	5296 Jan 03 23:17	4° る 50'43	
morning set	5295 Jan 23 18:00	24° ප 51'01		desc. node	5296 Jan 08 11:33	12° ට 04'04	
	5295 Jan 27 01:23	0° ≈					
max. Earth dist.	5295 Feb 06 22:17	17° ≈ 00'07	1.45006 AU	superior conj	5296 Jan 19 13:08	29° る 33'46	
				minimum elong	5296 Jan 19 04:40	29° る 00'35	1°10'53
superior conj	5295 Feb 09 10:04	20° ≈ 55'48			5296 Jan 19 19:49	0° ≈	
minimum elong	5295 Feb 09 01:31	20° ≈ 22'02	1°48'06	max. Earth dist.	5296 Jan 20 16:53	1° ≈ 22'36	1.45341 AU
	5295 Feb 15 02:50	0°) (evening rise	5296 Feb 04 14:10	24°≈42'56	
evening rise	5295 Feb 24 04:44	14°) (43'38		4 41 211	5296 Feb 07 22:45	0°) €	0.0
,	5295 Mar 05 13:16	0° Υ 12° Υ 40'12		greatest brilliancy	5296 Feb 15 00:15	11° 米 02'54	-0.8m
asc. node	5295 Mar 14 07:18	12° 7 40 12 14° Y 43'18	18°30'37	evening max el asc. node	5296 Feb 27 13:09	28°) 14'06 29°) 45'40	19°08'49
evening max el retrograde	5295 Mar 16 03:49 5295 Mar 22 16:19	18° Y 17'14	18 30 37	asc. node	5296 Feb 29 04:21 5296 Feb 29 11:18	29 π 43 40 0° Υ	
evening set	5295 Mar 25 19:11	17° Υ 22'52		retrograde	5296 Mar 05 11:59	2° Υ 10'20	
inferior conj	5295 Mar 31 13:54	11° Υ 50'52	3°32'31	evening set	5296 Mar 08 21:52	1° Υ 02'34	
minimum elong	5295 Mar 31 13:54	11° Υ 50'53	3°32'31	evening set	5296 Mar 10 06:04	1 1 02 34 30°R ∺	
min. Earth dist.	5295 Apr 02 16:59	9° Υ 19'45	0.64667 AU	inferior conj	5296 Mar 14 10:36	25° ¥ 14′23	3°25'45
morning rise	5295 Apr 06 07:54	5° Υ 38'23	3.0.100, 110	minimum elong	5296 Mar 14 09:19	25° X 18'29	3°25'38
direct	5295 Apr 13 01:29	2° Υ 50'00		min. Earth dist.	5296 Mar 15 22:16	23° H 20'25	0.66167 AU
desc. node	5295 Apr 19 13:44	4°Υ57'32		morning rise	5296 Mar 19 20:25	18° ¥ 59'40	
morning max el	5295 Apr 26 14:24	10° Ƴ 45'15	27°19'33	direct	5296 Mar 26 05:27	16°) 11′15	
-	5295 May 11 19:03	0°8		desc. node	5296 Apr 05 10:46	21° ∺ 21′05	
	5295 May 29 14:55	$\Pi^{\circ}0$		morning max el	5296 Apr 08 00:19	23°) 47′26	26°19'48
morning set	5295 May 31 23:22	4° Ⅱ 31'15			5296 Apr 13 13:26	0° Υ	
max. Earth dist.	5295 Jun 05 15:50	13° Ⅱ 55′05	1.33508 AU		5296 May 04 04:05	9° 8	
				morning set	5296 May 14 02:13	17° 8 32'08	
superior conj	5295 Jun 09 03:47	21° Ⅱ 13'40		max. Earth dist.	5296 May 18 02:38	25° 8 13'44	1.34947 AU
minimum elong	5295 Jun 09 04:23	21° Ⅱ 16′50	0°11'26		5296 May 20 12:25	Π $^{\circ}$ 0	

morning set	5298 Apr 07 23:08	10° Ƴ 40'49		max. Earth dist.	5299 Mar 24 20:38	29° ₩ 33'24	1.41153 AU
max. Earth dist.	5298 Apr 11 22:50	17° Ƴ 33'14	1.38976 AU		5299 Mar 25 02:58	0 ° Υ	
	5298 Apr 18 20:00	8° 0					
				superior conj	5299 Apr 01 14:33	12° Y 54'43	-1°59'14
superior conj	5298 Apr 19 10:47	1° 8 08'58	-1°38'10	minimum elong	5299 Apr 01 18:55	13° Ƴ 14'07	1°58'57
minimum elong	5298 Apr 19 15:47	1° 8 32'25	1°37'35		5299 Apr 10 23:20	$_{0\circ}$ 8	
evening rise	5298 Apr 28 17:20	18° 8 57'36		evening rise	5299 Apr 12 02:07	2° 8 04'29	
asc. node	5298 Apr 30 21:42	23° 8 10'17		asc. node	5299 Apr 17 18:43	12° 8 30'47	
	5298 May 04 13:14	$\Pi^{\circ}0$		evening max el	5299 Apr 28 07:14	27° 8 54'47	18°15'19
evening max el	5298 May 14 23:40	15° Ⅱ 13'38	18°43'50	Ü	5299 Apr 30 20:44	0° I I	
retrograde	5298 May 23 02:21	19° Ⅱ 13'11		retrograde	5299 May 05 09:20	1° Ⅱ 27'42	
evening set	5298 May 25 05:40	18° Ⅲ 57'33		evening set	5299 May 07 19:34	1° I I03'33	
inferior conj	5298 Jun 02 02:56	14° ∏ 35'15	1°09'34	evening set	5299 May 10 02:46	30°R 8	
minimum elong	5298 Jun 02 05:25	14° Д 30'38	1°08'43	inferior conj	5299 May 14 21:54	26° 8 21'02	2024!11
min. Earth dist.	5298 Jun 05 09:24	14 ∏ 30 38	0.57286 AU	3	•	26° 8 13'30	
		12 II 10 42 11° II 38'22	0.37280 AU	minimum elong	5299 May 15 01:22	_	
desc. node	5298 Jun 06 04:03			min. Earth dist.	5299 May 18 07:50	23° 8 24'33	0.59371 AU
morning rise	5298 Jun 10 01:50	9° Ⅲ 24'07		morning rise	5299 May 22 04:17	20° 8 40'27	
direct	5298 Jun 15 15:21	8° I 08'06		desc. node	5299 May 24 01:05	19° 8 45'09	
morning max el	5298 Jun 30 00:06	15° ∏ 39'45	26°23'22	direct	5299 May 28 12:22	18° 8 49'57	
	5298 Jul 11 14:42	0		morning max el	5299 Jun 11 21:32	26° 8 40'19	27°26'00
asc. node	5298 Jul 27 20:59	29° © 10'42			5299 Jun 15 01:08	Π $^{\circ}$ 0	
	5298 Jul 28 06:24	$0^{\circ}\Omega$			5299 Jul 05 03:01	0 \circ \odot	
morning set	5298 Jul 28 19:17	1° Ω 07'51		morning set	5299 Jul 13 03:15	15° © 45'19	
				asc. node	5299 Jul 14 18:01	19° 5 09'54	
superior conj	5298 Aug 04 18:17	16° Ω 17'20	1°14'02	max. Earth dist.	5299 Jul 19 16:36	29° © 55'14	1.31907 AU
minimum elong	5298 Aug 04 15:59	16° Ω 04'36	1°13'41		5299 Jul 19 17:28	$0^{\circ}\Omega$	
max. Earth dist.	5298 Aug 05 05:26	17° Ω 18'51	1.32068 AU				
man zarm alot.	5298 Aug 11 01:39	0° m)	1.52000110	superior conj	5299 Jul 20 06:00	1° Ω 09'15	0°54'37
evening rise	5298 Aug 11 16:15	1° Mp 16'48		minimum elong	5299 Jul 20 03:56	0°Ω57'46	
evening rise	5298 Aug 27 06:53	0° ⊡		evening rise	5299 Jul 27 01:10	16°Ω00'11	0 54 14
daga mada	-	0 == 8° £ 32'15		evening rise		0° m)	
desc. node	5298 Sep 02 03:21		27002111	1 1	5299 Aug 02 23:50		
evening max el	5298 Sep 11 14:00		27°02'11	desc. node	5299 Aug 20 00:21	26° m 14'48	
retrograde	5298 Sep 25 11:00	26° £ 39'11			5299 Aug 23 10:55	0∘ ⊽	
evening set	5298 Oct 02 11:55	24° ≏ 28'10		evening max el	5299 Aug 24 12:23	1° ≙ 02'15	26°04'59
min. Earth dist.	5298 Oct 06 04:19	21° ≏ 47'43	0.60941 AU	retrograde	5299 Sep 07 11:35	8° ≏ 09'54	
inferior conj	5298 Oct 09 08:03	19° ഫ 06'19	-4°14'15	evening set	5299 Sep 13 21:17	6° £ 30'53	
minimum elong	5298 Oct 09 14:24	18° ≏ 52'43	4°12'39	min. Earth dist.	5299 Sep 18 01:11	3° ≏ 55'52	0.58857 AU
morning rise	5298 Oct 16 18:54	14° ≏ 16′08		inferior conj	5299 Sep 21 06:41	1° ≏ 32'04	-5°00'00
direct	5298 Oct 19 02:22	13° ≏ 54'47		minimum elong	5299 Sep 21 11:31	1° £ 23'03	4°59'20
asc. node	5298 Oct 23 20:13	15° ≏ 28'50			5299 Sep 23 09:30	30°R Mp	
morning max el	5298 Oct 26 07:17	17° £ 29'59	18°00'07	morning rise	5299 Sep 29 04:02	27° m 04'44	
	5298 Nov 04 04:50	0°M		direct	5299 Oct 01 13:16	26° m 45'43	
morning set	5298 Nov 11 00:55	12°M20'16			5299 Oct 08 22:08	0∘ ⊽	
8 2 2 2	5298 Nov 20 17:54	0° ∡ 7		morning max el	5299 Oct 09 15:26	0° £ 39'42	18°30'56
		•		asc. node	5299 Oct 10 17:16	1° ≏ 45'28	
superior conj	5298 Nov 21 02:53	0° ∡ ³39'37	0°55'00	morning set	5299 Oct 25 17:36	26° £ 21′26	
minimum elong	5298 Nov 21 06:43		0°54'30	morning set	5299 Oct 27 14:51	0° M ₅	
max. Earth dist.	5298 Nov 28 17:38	13° х 41'17	1.42171 AU		3299 Oct 27 14.31	O IIG	
desc. node	5298 Nov 29 02:39		1.421/1 AU	superior conj	5200 N 02 15.00	1207 21100	1°20'28
		14° 🖈 18'38		1 3	5299 Nov 03 15:09	13°M21'00	
evening rise	5298 Dec 04 13:05	23°×708'02		minimum elong	5299 Nov 03 18:41	13°M37'25	1°20'07
	5298 Dec 08 22:05	5°0		max. Earth dist.	5299 Nov 11 00:39	26°M38'59	1.40159 AU
	5298 Dec 29 19:09	0° ≈			5299 Nov 12 23:24	0° ∡	
evening max el	5299 Jan 06 11:06	8° ≈ 58'38	22°26'06	evening rise	5299 Nov 15 06:55	3° ≯ 53'54	
retrograde	5299 Jan 16 04:22	14° ≈ 45′26		desc. node	5299 Nov 15 23:39	5° ҂ 03'26	
asc. node	5299 Jan 19 19:26	13° ≈ 36′34			5299 Dec 02 03:36	0°₹	
evening set	5299 Jan 20 19:13	12° ≈ 52'44		evening max el	5299 Dec 20 01:31	22° る 38'28	23°46'02
inferior conj	5299 Jan 26 03:44	6° ≈ 30'43	1°59'58	retrograde	5299 Dec 30 21:43	29° ට 02'10	
minimum elong	5299 Jan 26 01:29	6° ≈ 38'31	1°59'12	evening set	5300 Jan 05 01:04	26° る 54'06	
min. Earth dist.	5299 Jan 26 00:16	6° ≈ 42'46	0.68126 AU	asc. node	5300 Jan 06 16:28	25° ප 18'07	
morning rise	5299 Jan 31 07:37	0° ≈ 20'58		inferior conj	5300 Jan 10 11:29	20° る 27'56	1°14'58
Č	5299 Jan 31 18:03	30°Rる		minimum elong	5300 Jan 10 09:51	20° ට 33'31	1°14'20
direct	5299 Feb 04 23:17	28° る 24'42		min. Earth dist.	5300 Jan 09 20:59	21°る17'22	0.67998 AU
	5299 Feb 09 15:16	0°≈		morning rise	5300 Jan 15 18:37	14° る 22'58	
morning max el	5299 Feb 14 05:54		22°04'09	direct	5300 Jan 19 20:24	14 3 22 36	
desc. node	5299 Feb 25 01:53	17°≈05'34	UTU)	morning max el	5300 Jan 27 23:59	12 84920 17° 8 30'15	20°44'04
desc. Houc		1/ ~0334		morning max ci	2200 Jan 21 23.39	17 30 13	40 11 04
		$0 \circ \mathbf{M}$			5300 Eab 07 02:00	0000	
morning set	5299 Mar 06 02:27 5299 Mar 19 06:12	0° \ 20° \ 21'07		desc. node	5300 Feb 07 02:09 5300 Feb 11 22:54	0° ≈ 6° ≈ 55'59	

morning set	5300 Feb 26 11:17	28° ≈ 51'10			5301 Jan 31 17:09	0° ≈	
morning set	5300 Feb 27 04:56	0° ∀		morning set	5301 Feb 05 07:52	0 ~ 7° ≈ 05'16	
max. Earth dist.	5300 Mar 07 01:06		1.43074 AU	max. Earth dist.	5301 Feb	26°≈11'05	1.44494 AU
man. Burur uibu	0000111111 07 01.00	12 /(2/01	1.1507.1110	man. Darum dist.	5301 Feb 19 22:47	0° ∀	1.1119.1110
superior conj	5300 Mar 13 19:15	23°) 36'34	-2°09'01			• , .	
minimum elong	5300 Mar 13 19:57	23°) (39'29		superior conj	5301 Feb 21 22:29	3°){ 11'07	-2°01'55
C	5300 Mar 17 13:32	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	5301 Feb 21 16:53	2°) 48'36	2°01'39
evening rise	5300 Mar 25 19:31	14° Ƴ 26'11		evening rise	5301 Mar 07 17:09	25°) 54′19	
•	5300 Apr 03 18:33	0°8		•	5301 Mar 10 03:23	0° Y	
asc. node	5300 Apr 04 15:44	1° 8 25'43		asc. node	5301 Mar 22 12:45	19° Y 46'58	
evening max el	5300 Apr 11 19:06	10° 8 59'49	18°06'28	evening max el	5301 Mar 26 08:03	24° Y 20'10	18°16'34
retrograde	5300 Apr 18 07:58	14° 8 21'54		retrograde	5301 Apr 01 17:58	27° Y '45'48	
evening set	5300 Apr 21 00:56	13° 8 46'53		evening set	5301 Apr 04 17:16	26° Y 58'37	
inferior conj	5300 Apr 27 11:54	8° 8 44'13	3°08'58	inferior conj	5301 Apr 10 16:51	21° Y 36'49	3°29'26
minimum elong	5300 Apr 27 14:23	8° 8 37'59	3°08'32	minimum elong	5301 Apr 10 17:44	21° Y ′34'20	3°29'23
min. Earth dist.	5300 Apr 30 13:50	5° 8 40'49	0.61583 AU	min. Earth dist.	5301 Apr 13 04:49	18° Y 49'18	0.63635 AU
morning rise	5300 May 04 01:57	2° 8 45'07		morning rise	5301 Apr 16 17:12	15° Y 27'48	
direct	5300 May 10 20:32	0° 8 23'15		direct	5301 Apr 23 13:24	12° Y 45'23	
desc. node	5300 May 10 22:07	0° 8 23'15		desc. node	5301 Apr 27 19:09	13° Y 39'34	
morning max el	5300 May 25 01:08	8° 8 22'30	27°52'20	morning max el	5301 May 07 09:15	20° Ƴ 44'22	27°41'20
	5300 Jun 10 15:02	Π $^{\circ}0$			5301 May 15 08:55	$0^{\circ}S$	
morning set	5300 Jun 27 06:35	0° © 06'31			5301 Jun 03 16:41	Π °0	
	5300 Jun 27 05:19	0 \circ \odot		morning set	5301 Jun 11 02:58	14° Ⅱ 04'30	
asc. node	5300 Jul 01 15:02	9° © 15'23		max. Earth dist.	5301 Jun 16 04:58	24° ∏ 30′14	1.32893 AU
max. Earth dist.	5300 Jul 03 01:43	12° © 22'46	1.32178 AU				
		_		superior conj	5301 Jun 18 23:20	0° © 23'35	0°04'54
superior conj	5300 Jul 04 16:18	15° © 53'13	0°31'22	minimum elong	5301 Jun 18 23:06	0°522'18	0°04'50
minimum elong	5300 Jul 04 14:55		0°31'04	behind sun begin	5301 Jun 18 17:59	29° ∏ 54'51	
	5300 Jul 11 03:33	0°N		behind sun end	5301 Jun 19 04:12	0°5549'47	
evening rise	5300 Jul 11 12:29	0° Ω 47'42		asc. node	5301 Jun 18 12:03	29° Ⅱ 23'06	
	5300 Jul 27 11:05	0° m/y	24041104		5301 Jun 18 18:56	0°©	
evening max el	5300 Aug 06 03:41	11° Mp 50'41	24°41'04	evening rise	5301 Jun 26 00:16	15° © 33'22 0° Ω	
desc. node	5300 Aug 06 21:22	12° Mp 32'10			5301 Jul 03 04:56		23°03'59
retrograde evening set	5300 Aug 20 01:02 5300 Aug 25 06:13	18° Mp 50'57 17° Mp 49'51		evening max el desc. node	5301 Jul 18 16:19 5301 Jul 24 18:24	22 δ (13 23 26° Ω 53'01	23 03 39
min. Earth dist.	5300 Aug 23 00:13 5300 Aug 30 14:58	17 mp 49 31 15° mp 01'35	0.56930 AU	retrograde	5301 Jul 24 18:24 5301 Aug 01 01:36	28° Ω 54'36	
inferior conj	5300 Sep 02 09:31	13° Mp 14'03		evening set	5301 Aug 04 18:31	28° Ω 24'37	
minimum elong	5300 Sep 02 09:31 5300 Sep 02 09:27	13° Mp 14'09	5°18'41	min. Earth dist.	5301 Aug 12 01:12		0.55481 AU
morning rise	5300 Sep	9° m 08'19	3 10 41	inferior conj	5301 Aug 13 16:54	24°Ω10'14	
direct	5300 Sep 13 05:48	8° m) 49'19		minimum elong	5301 Aug 13 10:23	24°Ω19'41	4°52'31
morning max el	5300 Sep 22 14:07	13° m 12'49	19°23'16	morning rise	5301 Aug 22 04:30	20°Ω19'00	. 5251
asc. node	5300 Sep 27 14:18	19° m 06'39		direct	5301 Aug 25 03:49	19° Ω 58′03	
	5300 Oct 04 05:21	$0 \circ \overline{\mathbf{v}}$		morning max el	5301 Sep 05 00:57	25°Ω01'46	20°37'23
morning set	5300 Oct 09 18:43	10° ≏ 45'57		C	5301 Sep 09 12:14	0° m/y	
				asc. node	5301 Sep 14 11:21	7° m) 18'31	
superior conj	5300 Oct 17 20:15	26° £ 50'56	1°35'59	morning set	5301 Sep 24 01:26	25° m 26'12	
minimum elong	5300 Oct 17 22:26	27° £ 01'35	1°35'51		5301 Sep 26 06:25	0∘ ⊽	
	5300 Oct 19 11:13	0° M.					
max. Earth dist.	5300 Oct 24 05:26	8°M56'57	1.38048 AU	superior conj	5301 Oct 01 13:30	10° ≏ 56′23	1°42'49
evening rise	5300 Oct 27 23:34	15° ™ 41'31		minimum elong	5301 Oct 01 14:07	10° ≏ 59'32	1°42'48
desc. node	5300 Nov 02 20:40	25°M41'33		max. Earth dist.	5301 Oct 06 13:09	20° ≏ 52'47	1.36078 AU
	5300 Nov 05 12:24	0° ∡ 7		evening rise	5301 Oct 10 12:17	28° ≏ 24'02	
	5300 Nov 26 18:44	0°ಕ			5301 Oct 11 09:08	0° M	
evening max el	5300 Dec 02 14:24		25°03'17	desc. node	5301 Oct 20 17:42	16°M08'28	
retrograde	5300 Dec 14 10:50	13° る 13'55			5301 Oct 29 19:21	0° ∡	
evening set	5300 Dec 20 03:37	10° る 51'40		evening max el	5301 Nov 15 03:10	20° ₹ 05'59	26°10'27
min. Earth dist.	5300 Dec 24 15:48	5° る 49'07	0.67511 AU	retrograde	5301 Nov 27 18:55	27° ∡ 15′28	
asc. node	5300 Dec 24 13:30	5°る56'36	000010.5	evening set	5301 Dec 04 01:08	24° 🖈 41'48	0.0000
inferior conj	5300 Dec 25 17:12	4°₹25'55		min. Earth dist.	5301 Dec 08 06:20	20° ₹ 14'29	0.66667 AU
minimum elong	5300 Dec 25 16:37	4°る27'49	0°23′12	inferior conj	5301 Dec 09 19:00	18° 🗷 21'23	
	5300 Dec 29 10:09	30°₹ ৴		minimum elong	5301 Dec 09 19:54	18° ∡ 18'35	0~33'19
morning rise	5300 Dec 31 05:50	28° 🗷 27'53		asc. node	5301 Dec 11 10:34	16° ₹ 22'00	
direct	5301 Jan 03 19:06	27°渘15'10 0°る		morning rise	5301 Dec 15 15:13	12° x 32'49	
morning mey al	5301 Jan 09 15:21 5301 Jan 11 02:01		19°36'57	direct	5301 Dec 18 17:43 5301 Dec 25 11:22	11° х 37'58 15° х 19'34	18°45'15
morning max el		18° る 32'10	-0.7m	morning max el		15°×19'34 0°る	10 43 13
greatest brilliancy desc. node	5301 Jan 24 02:58 5301 Jan 29 19:56	18 ⁻ 832 ⁻ 10 27° 8 07'34	-U./III	morning set	5302 Jan 05 10:45 5302 Jan 15 20:58	0°る 16°る15'46	
desc. Houc	5501 Jan 29 19.50	27 00734		morning set	3302 Jan 13 20.38	10 01340	

desc. node	5302 Jan 16 16:58	17° る 34'24			5302 Dec 09 16:47	0°⊀	
	5302 Jan 24 14:59	0° ≈		morning set	5302 Dec 27 15:07	26° ₹ 54'28	
max. Earth dist.	5302 Jan 31 06:54	10°≈26'42	1.45246 AU		5302 Dec 29 12:34	0°る	
				desc. node	5303 Jan 03 14:00	8° る 11'53	
superior conj	5302 Feb 01 05:46	11°≈56'26			5202 1 11 10 17	200741144	0052142
minimum elong	5302 Jan 31 20:20	11°≈19'24	1°34'05	superior conj	5303 Jan 11 10:17	20°₹41'44	
arranina riaa	5302 Feb 12 15:40	0° ∺ 6° ∺ 25'19		minimum elong max. Earth dist.	5303 Jan 11 03:48 5303 Jan 14 02:33	20°පි16'10 24°පි54'38	1.45254 AU
evening rise greatest brilliancy	5302 Feb 16 15:50 5302 Feb 23 15:47	17° H 40'38	-0.9m	max. Earm dist.	5303 Jan 17 08:31	24 O 3438 0° ≈	1.43234 AU
greatest orimancy	5302 Peb 23 15:47 5302 Mar 03 15:08	0° Υ	-0.9111	evening rise	5303 Jan 27 16:39	0 ∞ 16°≈06'17	
asc. node	5302 Mar 09 09:48	7° Υ 23'55		evening rise	5303 Feb 05 16:04	0°)	
evening max el	5302 Mar 09 19:20	7° Y 48'36	18°44'47	greatest brilliancy	5303 Feb 09 02:25	5°) 13'33	-0.7m
retrograde	5302 Mar 16 11:10	11° Υ 30'35	10 4447	evening max el	5303 Feb 07 02:25 5303 Feb 21 02:51	21° X 21'08	19°29'53
evening set	5302 Mar 19 17:00	10° Υ 30'25		asc. node	5303 Feb 24 06:51	24°) (04'09	1, 2, 33
inferior conj	5302 Mar 25 08:48	4° Υ 51'05	3°31'20	retrograde	5303 Feb 28 08:16	25°) 30'07	
minimum elong	5302 Mar 25 08:12	4°Υ'52'56	3°31'19	evening set	5303 Mar 03 21:27	24°) 16'20	
min. Earth dist.	5302 Mar 27 05:08	2° Y 35'07	0.65358 AU	inferior conj	5303 Mar 09 08:26	18°) €21'35	3°19'00
	5302 Mar 29 12:08	30° ₹		minimum elong	5303 Mar 09 06:45	18°) €27'06	3°18'47
morning rise	5302 Mar 30 22:54	28° 升 37'27		min. Earth dist.	5303 Mar 10 13:44	16°) 45′28	0.66673 AU
direct	5302 Apr 06 13:24	25°) 47'49		morning rise	5303 Mar 14 15:47	12° ¥ 06'31	
desc. node	5302 Apr 14 16:12	29° ∺ 04'49		direct	5303 Mar 20 19:44	9° ∺ 21'59	
	5302 Apr 15 20:49	0 ° $\mathbf{\Upsilon}$		desc. node	5303 Apr 01 13:15	16°) 06′02	
morning max el	5302 Apr 19 19:21	3° Ƴ 35'59	26°57'13	morning max el	5303 Apr 02 05:10	16°) 45′42	25°47'56
	5302 May 09 18:05	$_{0\circ}$ 8			5303 Apr 13 05:18	0° Y	
morning set	5302 May 25 13:19	27° 8 29'19			5303 May 02 16:22	9° 8	
	5302 May 26 20:29	$\Pi^{\circ}0$		morning set	5303 May 08 09:37	10° 8 09'54	
max. Earth dist.	5302 May 29 22:45	6° Ⅱ 08'11	1.34069 AU	max. Earth dist.	5303 May 12 05:03	17° 8 18'17	1.35703 AU
superior conj	5302 Jun 03 00:54	14° Ⅱ 32'45	-0°23'59	superior conj	5303 May 17 18:29	28° 8 13'59	-0°53'57
minimum elong	5302 Jun 03 02:11	14° Ⅱ 39'27	0°23'45	minimum elong	5303 May 17 21:29	28° 8 29'07	0°53'25
asc. node	5302 Jun 05 09:05	19° Ⅱ 28'10			5303 May 18 15:28	Π °0	
evening rise	5302 Jun 10 10:34	0°909'47		asc. node	5303 May 23 06:07	9° ∏ 26'49	
	5302 Jun 10 08:41	0ංම		evening rise	5303 May 25 17:18	14° ∏ 30′50	
	5302 Jun 27 21:45	0 $^{\circ}$ Ω			5303 Jun 02 18:00	0°©	
evening max el	5302 Jun 30 10:13	2° Ω 42'16	21°29'46	evening max el	5303 Jun 12 15:40	13°5645'13	20°09'55
desc. node	5302 Jul 11 15:26	8° Ω 43'09		retrograde	5303 Jun 23 06:17	18°956'51	
retrograde	5302 Jul 12 16:16	8° Ω 45'41		evening set	5303 Jun 25 04:35	18°547'16	
evening set	5302 Jul 15 03:13	8° Ω 31'53	2027/27	desc. node	5303 Jun 28 12:27	17°549'52	1042112
inferior conj	5302 Jul 24 11:27	4° Ω 31'54 4° Ω 44'11		inferior conj	5303 Jul 04 06:46	14°5548'25	
minimum elong min. Earth dist.	5302 Jul 24 02:41 5302 Jul 24 11:10		0.54807 AU	minimum elong min. Earth dist.	5303 Jul 04 01:56 5303 Jul 05 23:09	14°\$55'36 13°\$48'28	0.55085 AU
morning rise	5302 Jul 24 11:10 5302 Aug 02 03:10	0° Ω 38'56	0.54607 AU	morning rise	5303 Jul	10°932'39	0.55085 AU
direct	5302 Aug 02 03:10 5302 Aug 05 13:35	0° Ω 13'23		direct	5303 Jul 17 00:40	9° 9 55'48	
morning max el	5302 Aug 18 00:08	6°Ω05'20	22°10'30	morning max el	5303 Jul 30 15:32	16° © 35'39	23°54'03
asc. node	5302 Sep 01 08:23	26° Ω 08'31	22 1030	morning max er	5303 Aug 10 10:03	0°N	23 3 1 03
	5302 Sep 03 09:41	0° m)		asc. node	5303 Aug 19 05:25	15° Ω 27'02	
morning set	5302 Sep 08 11:30	10° m) 15'24		morning set	5303 Aug 23 23:05	25° Ω 08'06	
C	•	-		C	5303 Aug 26 05:40	O° Mp	
superior conj	5302 Sep 15 15:09	25° Mp 26'06	1°42'16		•		
minimum elong	5302 Sep 15 14:25	25° Mp 22'14	1°42'14	superior conj	5303 Aug 30 22:21	10° m 11'14	1°35'27
-	5302 Sep 17 19:28	0∘ ⊽		minimum elong	5303 Aug 30 20:39	10° Mp 02'01	1°35'19
max. Earth dist.	5302 Sep 19 04:05	2° £ 48'05	1.34419 AU	max. Earth dist.	5303 Sep 02 03:37	14° m 57'41	1.33167 AU
evening rise	5302 Sep 23 16:50	11° ≏ 50'29		evening rise	5303 Sep 07 09:14	25° Mp 50'21	
	5302 Oct 03 17:53	0°M₊			5303 Sep 09 11:33	0∘ 亚	
desc. node	5302 Oct 07 14:44	6°M₁8′22		desc. node	5303 Sep 24 11:45	26° ჲ 03'24	
	5302 Oct 25 01:44	0° ∡ ¹			5303 Sep 27 03:39	0°M₊	
evening max el	5302 Oct 28 15:54	3° х ⁴42'19	27°00'13	evening max el	5303 Oct 11 03:34	17° ™ 00'01	27°25'29
retrograde	5302 Nov 10 21:32	10° ∡ 59'56		retrograde	5303 Oct 24 18:08	24°M18'13	
evening set	5302 Nov 17 15:33	8° ∡ 720′09	0.6545= 1.=-	evening set	5303 Oct 31 20:11	21°M40'48	0.60000
min. Earth dist.	5302 Nov 21 14:16		0.65467 AU	min. Earth dist.	5303 Nov 04 13:34	18°M22'12	0.63926 AU
inferior conj	5302 Nov 23 14:46	2° ∡ 10'04		inferior conj	5303 Nov 07 01:59	15°M46'00	
minimum elong	5302 Nov 23 17:30	2° ₹ 02'17	1~34*03	minimum elong	5303 Nov 07 06:38	15°M33'58	2~3/12
000 mc J-	5302 Nov 25 13:47	30°RM		morning rise	5303 Nov 13 18:33	10°M24'58	
asc. node	5302 Nov 28 07:37	27°M30'29		asc. node	5303 Nov 15 04:40	10°M00'07	
morning rise direct	5302 Nov 29 20:26 5302 Dec 02 14:12	26°M33'48 25°M53'05		direct	5303 Nov 16 05:57 5303 Nov 22 18:44	9°M54'32	17051140
morning max el	5302 Dec 02 14:12 5302 Dec 09 01:55		18°10'00	morning max el	5303 Nov 22 18:44 5303 Dec 04 07:50	13°ML19′25 0°⊀	17°51'49
morning max ci	3302 DCC 09 01.33	د4 المكاا (م	10 10 00		3303 DCC 04 07.30	V X	

morning set	5303 Dec 09 12:46	8° ∡ 753'06		minimum elong	5304 Oct 20 07:52	28° ≙ 48'27	3°39'26
desc. node	5303 Dec 21 11:01	28° ≯ 55'38		morning rise	5304 Oct 27 05:57	23° £ 59'54	
				direct	5304 Oct 29 13:53	23° £ 36'08	
superior conj	5303 Dec 22 07:24	0° 궁 18'47		asc. node	5304 Nov 01 01:42	24° £ 04'14	
minimum elong	5303 Dec 22 06:44	0°る16'03	0°05'52	morning max el	5304 Nov 05 10:46	27° Ω 05'29	17°51'34
behind sun begin	5303 Dec 21 21:26	29° ∡ 38'08			5304 Nov 08 00:25	0°M	
behind sun end	5303 Dec 22 16:01	0° る 53'54		morning set	5304 Nov 21 07:42	21°M52'57	
	5303 Dec 22 02:47	0°る			5304 Nov 25 20:27	0°⊀	
max. Earth dist.	5303 Dec 27 20:47	9° る 15'12	1.44535 AU				
evening rise	5304 Jan 07 03:57	25° る 19'51		superior conj	5304 Dec 02 06:27	11° х 11'46	0°35'29
	5304 Jan 10 05:09	0° ≈		minimum elong	5304 Dec 02 09:31	11° ₹ 24'51	0°35'04
	5304 Jan 30 22:59	0° ∀		desc. node	5304 Dec 07 08:02	19° ∡ 42'31	
evening max el	5304 Feb 04 05:11	4°) 54′58	20°29'55	max. Earth dist.	5304 Dec 09 11:38	23° ∡ 14'04	1.43183 AU
asc. node	5304 Feb 11 03:54	9°) 32′26			5304 Dec 13 16:38	0° ろ	
retrograde	5304 Feb 12 06:34	9° ∺ 39'02		evening rise	5304 Dec 16 17:08	4° る 45'19	
evening set	5304 Feb 16 04:27	8°) 10'48			5305 Jan 02 14:25	0° ≈	
inferior conj	5304 Feb 21 13:01	2° ∺ 03'12		evening max el	5305 Jan 17 02:09	18° ≈ 30′23	21°41'31
minimum elong	5304 Feb 21 10:44	2° 	2°54'56	retrograde	5305 Jan 26 04:02	23° ≈ 53'43	
min. Earth dist.	5304 Feb 22 04:39	1°) €09'46	0.67561 AU	asc. node	5305 Jan 28 00:56	23° ≈ 35'03	
	5304 Feb 23 01:20	30°R ≈		evening set	5305 Jan 30 12:14	22° ≈ 10′12	
morning rise	5304 Feb 26 16:49	25° ≈ 48'54		inferior conj	5305 Feb 04 20:19	15° ≈ 52'39	
direct	5304 Mar 03 07:26	23°≈18'51		minimum elong	5305 Feb 04 17:55	16° ≈ 00'58	2°21'52
morning max el	5304 Mar 14 13:48	0° ∺ 03'09	24°23'29	min. Earth dist.	5305 Feb 04 23:35	15° ≈ 41'19	0.68036 AU
	5304 Mar 14 12:33	0° ∀		morning rise	5305 Feb 09 23:25	9° ≈ 40'51	
desc. node	5304 Mar 18 10:16	4°) 15′51		direct	5305 Feb 14 23:35	7° ≈ 31'16	
	5304 Apr 06 02:27	$0^{\circ}\mathbf{\Upsilon}$		morning max el	5305 Feb 24 23:17	13° ≈ 26′09	22°54'06
morning set	5304 Apr 19 10:33	21° Y 51'42		desc. node	5305 Mar 05 07:17	23°≈14'50	
max. Earth dist.	5304 Apr 23 02:10	28° Y 20'45	1.37715 AU		5305 Mar 10 07:05	0° ∀	
	5304 Apr 24 00:01	0° 8			5305 Mar 30 00:28	0° Υ	
				morning set	5305 Mar 31 10:06	2°Υ18'37	
superior conj	5304 Apr 30 00:49	11° 8 18'59		max. Earth dist.	5305 Apr 04 21:37	9° Ƴ 52'10	1.39916 AU
minimum elong	5304 Apr 30 05:20	11° 8 40'46	1°22'20		5205 4 12 15 12	2200027121	1040100
evening rise	5304 May 08 18:02	28° 8 29'35		superior conj	5305 Apr 12 15:43	23° Y 37'21	
asc. node	5304 May 09 03:10	29° 8 14'47		minimum elong	5305 Apr 12 20:45	24°Υ00'22	1°47'39
	5304 May 09 12:19	0°II	10000107		5305 Apr 16 02:22	0° 8	
evening max el	5304 May 25 09:34	25° Ⅱ 31'19	19°09'27	evening rise	5305 Apr 22 09:40	11° 8 57'54	
retrograde	5304 Jun 03 07:41	29° Ⅱ 53'06		asc. node	5305 Apr 26 00:11	18° 8 46'57	
evening set	5304 Jun 05 07:28	29° II 40'59	0010126		5305 May 02 10:35	0°II	10020110
inferior conj	5304 Jun 13 16:23	25° II 29'52		evening max el	5305 May 08 13:13	7° I 55'11	18°29'18
minimum elong transit middle	5304 Jun 13 16:55	25° Ⅱ 28'59 25° Ⅱ 28'59	0°12'24 0°12'24	retrograde	5305 May 16 03:45	11° Ⅱ 40'57 11° Ⅱ 21'56	
	5304 Jun 13 16:55	25° I 33'05	0 12 24	evening set	5305 May 18 10:08		1945106
transit begin	5304 Jun 13 14:30 5304 Jun 13 19:20	25° I I24'53		inferior conj	5305 May 25 23:01	6°Ⅲ51'16 6°Ⅲ44'50	1°43'06 1°44'04
transit end desc. node	5304 Jun 14 09:27	25° I 100'52		minimum elong	5305 May 26 02:15	4° Ⅱ 10′20	0.58140 AU
min. Earth dist.	5304 Jun 16 14:02	23° I I32'34	0.56278 AU	min. Earth dist. desc. node	5305 May 29 08:49 5305 Jun 01 06:29	2° I I1'37	0.38140 AU
	5304 Jun 21 23:11	23 H 32 34 20° H 39'10	0.30278 AU		5305 Jun 02 15:10	2 П 1137 1° П 26'43	
morning rise direct	5304 Jun 27 00:05	20 ∏ 39 10 19° ∏ 40'07		morning rise	5305 Jun 02 13:10 5305 Jun 07 08:17	1 щ2043 30° Ŗ	
morning max el	5304 Jul 11 05:16	26° I 57'01	25°33'53	direct	5305 Jun 08 13:39	29° 8 56'08	
morning max cr	5304 Jul 14 03:58	20 n 37 01	23 33 33	direct	5305 Jun 09 19:12	0° Ⅱ	
	5304 Aug 02 13:18	$0 {\circ} \Omega$		morning max el	5305 Jun 22 22:52	7° Ⅱ 36'31	26°54'01
asc. node	5304 Aug 05 02:26	5° Ω 06'34		morning max cr	5305 Jul 09 18:07	0°9	20 3401
morning set	5304 Aug 07 10:35	9° £ 59'34		morning set	5305 Jul 22 20:20	24°5943'34	
morning sec	230171 u g 07 10.22	y 0 c 3 y 3 i		asc. node	5305 Jul 22 23:27	24°959'59	
superior conj	5304 Aug 14 08:49	25° Ω 04'36	1°23'15		5305 Jul 25 07:33	$0^{\circ}\Omega$	
minimum elong	5304 Aug 14 06:36	24°Ω52'24					
max. Earth dist.	5304 Aug 15 10:21	27° Ω 24'43	1.32346 AU	superior conj	5305 Jul 29 20:35	9° Ω 58'34	1°06'19
	5304 Aug 16 14:47	0°m		minimum elong	5305 Jul 29 18:19	9° Ω 46'02	1°05'56
evening rise	5304 Aug 21 10:11	10° m) 14'22		max. Earth dist.	5305 Jul 29 21:05	10° Ω 01'24	1.31952 AU
5 -7	5304 Aug 31 18:14	0∘ ಹ		evening rise	5305 Aug 05 16:52	24° £ 52′52	
desc. node	5304 Sep 10 08:45	15° ≏ 13'29		<i>5</i>	5305 Aug 08 04:02	0° mp	
evening max el	5304 Sep 22 12:16	29° ≏ 47'24	27°20'23		5305 Aug 25 13:59	0∘ ⊽	
Ç	5304 Sep 22 17:38	0° M		desc. node	5305 Aug 28 05:45	3° ჲ 33'24	
retrograde	5304 Oct 06 07:53	7°M01'23		evening max el	5305 Sep 04 15:13	11° ≏ 50'55	26°41'45
evening set	5304 Oct 13 11:37	4°MJ37'31		retrograde	5305 Sep 18 13:19	18° ≏ 59'50	
min. Earth dist.	5304 Oct 17 02:43	1°M46'00	0.62092 AU	evening set	5305 Sep 25 09:18	17° ≏ 01'31	
	5304 Oct 19 01:02	30° ₹		min. Earth dist.	5305 Sep 29 05:06	14° ≏ 25'23	0.60059 AU
inferior conj	5304 Oct 20 01:46	29° ჲ 02'32	-3°41'17	inferior conj	5305 Oct 02 10:35	11° ≏ 49'33	-4°35'58

minimum elong	5305 Oct 02 16:39	11° ≏ 37'16	1021112	inferior conj	5306 Sep 14 01:00	23° m 57'12	5012112
morning rise	5305 Oct 02 10:39 5305 Oct 10 02:04	7° 2 08'31	4 34 43	minimum elong	5306 Sep 14 04:10	23° m 51'39	
direct	5305 Oct 10 02:04 5305 Oct 12 09:54	6° £ 48′23		morning rise	5306 Sep 14 04:10 5306 Sep 22 02:10	19° m 39'33	3 11 30
asc. node	5305 Oct 12 05:54 5305 Oct 18 22:43	9° £ 35'57		direct	5306 Sep 22 02:10 5306 Sep 24 13:32	19° m 20'40	
morning max el	5305 Oct 19 22:41	10° ⊆ 30′28	18°10'37	morning max el	5306 Oct 03 03:09	23° m/ 25'18	18°50'30
morning man vi	5305 Nov 01 18:04	0°M	10 105,	asc. node	5306 Oct 05 19:45	26° m 21'29	10 2030
morning set	5305 Nov 04 17:48	5°M35'30		use. noue	5306 Oct 08 12:28	0ಂ ರ	
morning sec	23021.07 01 17.10	5 NG35 3 0		morning set	5306 Oct 19 14:27	19° ≏ 47'33	
superior conj	5305 Nov 14 06:30	23°ML17'05	1°07'05		5306 Oct 24 19:24	0°M	
minimum elong	5305 Nov 14 10:24	23°MJ34'41	1°06'37				
	5305 Nov 18 01:16	0° ∡ 7		superior conj	5306 Oct 28 02:33	6°M20'46	1°28'13
max. Earth dist.	5305 Nov 21 21:54	6° ∡ 737'59	1.41351 AU	minimum elong	5306 Oct 28 05:35	6°M35'07	1°27'57
desc. node	5305 Nov 24 05:03	10° ∡ ¹28'45		max. Earth dist.	5306 Nov 04 03:49	19° M .18'49	1.39261 AU
evening rise	5305 Nov 26 22:16	14° ₹ 56'08		evening rise	5306 Nov 08 01:53	26°M07'53	
•	5305 Dec 06 13:35	0°ಕ		•	5306 Nov 10 08:58	0° ∡ ¹	
	5305 Dec 28 17:52	0° ≈		desc. node	5306 Nov 11 02:03	1° ∡ 10'52	
evening max el	5305 Dec 30 18:31	2° ≈ 08'12	23°00'04		5306 Nov 30 05:05	0°ರ	
retrograde	5306 Jan 09 23:08	8° ≈ 10'45		evening max el	5306 Dec 13 07:57	15° ප් 49'06	24°19'39
evening set	5306 Jan 14 19:14	6° ≈ 11'25		retrograde	5306 Dec 24 14:45	22° る 25'51	
asc. node	5306 Jan 14 21:58	6° ≈ 05'38		evening set	5306 Dec 29 23:53	20° ට 11'14	
inferior conj	5306 Jan 20 04:25	29° る 47'23	1°41'44	asc. node	5307 Jan 01 19:01	17° る 15'13	
minimum elong	5306 Jan 20 02:22	29° る 54'27	1°41'00	min. Earth dist.	5307 Jan 03 16:18	14° ප් 49'12	0.67834 AU
min. Earth dist.	5306 Jan 19 20:13	0° ≈ 15'42	0.68120 AU	inferior conj	5307 Jan 04 11:30	13° ප් 44'42	0°53'49
	5306 Jan 20 00:46	30°₽₹		minimum elong	5307 Jan 04 10:16	13° る 48'52	0°53'20
morning rise	5306 Jan 25 09:24	23° る 39'39		morning rise	5307 Jan 09 20:44	7°る42'42	
direct	5306 Jan 29 19:08	21° ප් 52'58		direct	5307 Jan 13 16:58	6°る18'25	
morning max el	5306 Feb 07 13:23	26° る 58'28	21°28'48	morning max el	5307 Jan 21 10:54	10°る42'35	20°13'49
	5306 Feb 10 08:30	0° ≈			5307 Feb 05 03:35	0° ≈	
desc. node	5306 Feb 20 04:19	12° ≈ 49'17		desc. node	5307 Feb 07 01:20	2°≈49'05	
	5306 Mar 03 20:37	0° ∀		morning set	5307 Feb 18 03:33	19° ≈ 39'31	
morning set	5306 Mar 11 05:07	11° ∺ 25′26			5307 Feb 24 18:26	0° ∀	
max. Earth dist.	5306 Mar 17 22:31	22°) 17′37	1.42018 AU	max. Earth dist.	5307 Feb 28 06:43	5°) 35′22	1.43747 AU
	5306 Mar 22 12:58	$\mathbf{\gamma}_{\circ}$					
	520()/ 25 10 10	100055100	200.510.6	superior conj	5307 Mar 06 04:03	15°) €09'18	
superior conj	5306 Mar 25 10:18	4° Υ 57'29		minimum elong	5307 Mar 06 02:13	15°) €01'42	2°08'19
minimum elong	5306 Mar 25 13:32	5° Υ 11'31 24° Υ 47'03	2°04′58		5307 Mar 14 23:48	0°Υ 6°Υ46'44	
evening rise	5306 Apr 05 12:29			evening rise	5307 Mar 18 22:00		
1-	5306 Apr 08 09:17	0° 엉 7° 엉 57'42		asc. node	5307 Mar 30 18:17	26° Ƴ 39'14 0° 엉	
asc. node	5306 Apr 12 21:14 5306 Apr 21 23:05	20° 8 47'54	18°09'11	evening max el	5307 Apr 02 02:28 5307 Apr 05 11:41	3° 8 59'33	18°08'28
evening max el retrograde	5306 Apr 28 18:05	24° 8 14'21	16 09 11	retrograde	5307 Apr 03 11.41 5307 Apr 11 22:17	7° 8 21'54	10 00 20
evening set	5306 Apr 28 18:03 5306 May 01 07:20	23° 8 45'41		evening set	5307 Apr 14 17:52	6° 8 41'54	
inferior conj	5306 May 01 07:20 5306 May 08 02:36	18° 8 54'10	2°46'31	inferior conj	5307 Apr 14 17:32 5307 Apr 20 23:29	1° 8 30'43	3°20'13
minimum elong	5306 May 08 05:48	18° 8 46'45	2°45'47	minimum elong	5307 Apr 21 01:19	1° 8 25'53	3°20'00
min. Earth dist.	5306 May 11 10:01	15° 8 52'04	0.60314 AU	minimum ciong	5307 Apr 22 09:43	30°RΥ	3 20 00
morning rise	5306 May 15 01:52	13° 8 04'37	0.00311110	min. Earth dist.	5307 Apr 23 19:49	28° Ƴ 31'41	0.62481 AU
desc. node	5306 May 19 03:31	11° 8 18'06		morning rise	5307 Apr 27 07:17	25° Υ 26'15	0.02401710
direct	5306 May 21 15:26	11° 8 00'16		direct	5307 May 04 03:21	22° Υ 54'17	
morning max el	5306 Jun 04 23:05	18° 8 54'35	27°41'55	desc. node	5307 May 06 00:34	23°Υ04'55	
5 5	5306 Jun 14 07:45	0°II			5307 May 17 06:40	0°8	
	5306 Jul 02 12:00	0°e		morning max el	5307 May 18 05:09	0° 8 54'57	27°52'10
morning set	5306 Jul 07 02:36	9° © 15'02		S	5307 Jun 08 11:15	0° I I	
asc. node	5306 Jul 09 20:29	15° © 02'29		morning set	5307 Jun 21 03:19	23° Ⅲ 27'12	
max. Earth dist.	5306 Jul 13 08:06	22°536'41	1.31978 AU	C	5307 Jun 24 07:24	0ಂತ	
				max. Earth dist.	5307 Jun 26 15:19	4° © 57'17	1.32427 AU
superior conj	5306 Jul 14 07:55	24°9547'45	0°45'13	asc. node	5307 Jun 26 17:32	5° © 09'12	
minimum elong	5306 Jul 14 06:05	24° 5 37'37	0°44'50				
-	5306 Jul 16 16:33	$0^{\circ}\Omega$		superior conj	5307 Jun 28 17:03	9° 5 26'11	0°20'30
evening rise	5306 Jul 21 03:05	9° Ω 39'01		minimum elong	5307 Jun 28 16:06	9° 5 21'01	0°20'16
	5306 Jul 31 13:03	0° m		evening rise	5307 Jul 05 14:49	24°526'03	
desc. node	5306 Aug 15 02:46	20° m 43'01			5307 Jul 08 06:34	$0^{\circ}\Omega$	
evening max el	5306 Aug 17 10:22	23° m 04'15	25°31'45		5307 Jul 26 13:54	0° m	
	5306 Aug 29 10:20	0∘ 亚		evening max el	5307 Jul 29 23:27	3° m 37'13	24°00'18
retrograde	5306 Aug 31 08:59	0° ჲ 08'58		desc. node	5307 Aug 01 23:48	6° Mp 14′54	
	5306 Sep 02 07:34	30°R.M⊅		retrograde	5307 Aug 12 17:26	10°m/32'12	
evening set	5306 Sep 06 08:27	28° m 45'47		evening set	5307 Aug 17 07:31	9° m 45'41	
min. Earth dist.	5306 Sep 10 22:14	26° Mp 07'37	0.58011 AU	min. Earth dist.	5307 Aug 23 09:54	6° ™ 46'51	0.56235 AU

inferior conj	5307 Aug 25 19:12	5°Mp18'58		evening max el	5308 Jul 10 13:19	13° Ω 58'15	22°22'48
minimum elong	5307 Aug 25 16:18	5° Mp 23′26	5°14'02	desc. node	5308 Jul 18 20:50	19° Ω 35′04	
morning rise	5307 Sep 03 03:36	1°Mp21'13		retrograde	5308 Jul 23 13:28	20° Ω 26′04	
direct	5307 Sep 05 21:35	1° m)01'44		evening set	5308 Jul 26 15:33	20° Ω 05′03	
morning max el	5307 Sep 15 21:06	5° Mp 40'50	19°52'16	min. Earth dist.	5308 Aug 03 20:03	16° Ω 31'41	0.55077 AU
asc. node	5307 Sep 22 16:48	14° m 05'47		inferior conj	5308 Aug 04 19:52	15° Ω 57'59	-4°26'57
	5307 Oct 01 14:30	0∘ ত		minimum elong	5308 Aug 04 11:35	16° Ω 09'44	4°25'09
morning set	5307 Oct 03 18:17	4° ₽ 19'42		morning rise	5308 Aug 13 09:29	12° Ω 08′09	
				direct	5308 Aug 16 12:50	11° Ω 45'50	
superior conj	5307 Oct 11 13:24	20° ≏ 07'52	1°39'52	morning max el	5308 Aug 28 02:50	17° Ω 10′12	21°15'02
minimum elong	5307 Oct 11 14:55	20° ≏ 15'24	1°39'47		5308 Sep 07 01:00	0° m)	
	5307 Oct 16 15:11	0° M ₊		asc. node	5308 Sep 08 13:50	2° m 35'01	
max. Earth dist.	5307 Oct 17 08:58	1°M23'53	1.37175 AU	morning set	5308 Sep 17 02:39	19° m 04'09	
evening rise	5307 Oct 21 03:34	8°M20'15			5308 Sep 22 07:50	0∘ ⊽	
desc. node	5307 Oct 28 23:05	21° M 44'57					
	5307 Nov 03 03:42	0° ∡ ¹		superior conj	5308 Sep 24 10:37	4° ≏ 24'45	1°43'24
evening max el	5307 Nov 25 20:30	29° ∡ ³33′03	25°33'27	minimum elong	5308 Sep 24 10:38	4° ≙ 24'47	1°43'24
	5307 Nov 26 07:39	0°రె		max. Earth dist.	5308 Sep 28 19:03	13° ≏ 15'32	1.35324 AU
retrograde	5307 Dec 08 01:59	6° る 34'30		evening rise	5308 Oct 02 23:33	00'23 ≏ 23	
evening set	5307 Dec 14 00:33	4° る 06'41		C	5308 Oct 07 16:28	0° M	
C	5307 Dec 17 20:35	30°₽ ✓		desc. node	5308 Oct 14 20:06	12°M05'15	
min. Earth dist.	5307 Dec 18 09:35	29° ∡ 19'05	0.67192 AU		5308 Oct 27 00:15	0° ∡ ¹	
inferior conj	5307 Dec 19 15:48	27° ∡ ¹42'20	-0°00'12	evening max el	5308 Nov 07 09:17	13° ∡ 14'50	26°34'12
minimum elong	5307 Dec 19 15:48	27° х 42′19		retrograde	5308 Nov 20 07:59	20° ∡ ¹29'22	
transit middle	5307 Dec 19 15:48	27° х 42′19	0°00'11	evening set	5308 Nov 26 19:20	17° ∡ 752′29	
transit begin	5307 Dec 19 13:00	27° ₹ '51'19		min. Earth dist.	5308 Nov 30 21:44	13° х 40′01	0.66197 AU
transit end	5307 Dec 19 18:37	27° х 33′20		inferior conj	5308 Dec 02 15:19	11° х 35'33	
asc. node	5307 Dec 19 16:03	27° × ⁷ 41'34		minimum elong	5308 Dec 02 16:58	11° × ⁷ 30'37	
morning rise	5307 Dec 25 07:26	21°×748'06		asc. node	5308 Dec 05 13:05	8° ∡ 18'53	0 2030
direct	5307 Dec 28 15:47	20° х 43′36		morning rise	5308 Dec 08 15:20	5° х 1003	
morning max el	5308 Jan 04 16:20	24° × 37'48	19°13'00	direct	5308 Dec 00 13:20 5308 Dec 11 13:47	5° ₹ 03'20	
morning max er	5308 Jan 09 06:38	0°る	17 15 00	morning max el	5308 Dec 11 15:47 5308 Dec 18 04:09	8°×738'33	18°28'07
greatest brilliancy	5308 Jan 18 06:23	0 0 12° る 54'32	-0.7m	morning max er	5309 Jan 02 05:50	0° ろ	10 2007
desc. node	5308 Jan 24 22:23	23°る07'45	0.7111	morning set	5309 Jan 07 05:22	0 ろ 7° ろ 56'37	
morning set	5308 Jan 28 04:28	23° ろ 10'03		desc. node	5309 Jan 10 19:24	7 3 3037	
morning set	5308 Jan 29 08:48	20°≈		desc. Hode	5309 Jan 21 03:52	0°≈	
max. Earth dist.	5308 Feb 10 21:09		1.44899 AU		5507 Jan 21 05.52	0 ~	
max. Lartii dist.	3300100 10 21.07	17 70 32 37	1.440// 110	superior conj	5309 Jan 23 00:59	2° ≈ 56'58	-1°18'23
superior conj	5308 Feb 13 21:26	24° ≈ 18'38	-1°52'52	minimum elong	5309 Jan 22 16:03	2°≈21'55	
minimum elong	5308 Feb 13 13:29	23°≈47'10		max. Earth dist.	5309 Jan 23 15:32	3°≈53'59	1.45345 AU
minimum ciong	5308 Feb 17 11:06	0° ∀	1 32 10	evening rise	5309 Feb 07 22:54	27° ≈ 57'31	1.100 10 110
evening rise	5308 Feb 28 10:07	17° ¥ 50'16		evening rise	5309 Feb 09 05:53	0° ∀	
evening rise	5308 Mar 06 19:07	0°Υ		greatest brilliancy	5309 Feb 17 14:26	13° ¥ 10'36	-0.8m
asc. node	5308 Mar 16 15:19	14° Υ '42'43		greatest orimancy	5309 Mar 01 13:43	0°Υ	0.0111
evening max el	5308 Mar 19 00:10	17° Υ 23'21	18°26'24	evening max el	5309 Mar 02 10:06	0° Υ 54'00	19°02'04
retrograde	5308 Mar 25 11:45	20° Y '54'44	10 2021	asc. node	5309 Mar 03 12:21	1° Υ 57'04	19 02 01
evening set	5308 Mar 28 13:40	20° Υ '02'17		retrograde	5309 Mar 09 06:50	4° Υ 46'02	
inferior conj	5308 Apr 03 09:33		3°32'11	evening set	5309 Mar 12 15:40	3° Υ 40'14	
minimum elong	5308 Apr 03 09:46	14° Υ 32'20	3°32'11	o. oming see	5309 Mar 16 12:27	30° ₹	
min. Earth dist.	5308 Apr 05 15:00	11° Y 57'03	0.64414 AU	inferior conj	5309 Mar 18 05:06	27°) 54'22	3°27'38
morning rise	5308 Apr 09 05:05	8° Υ 21'12	3.0.111110	minimum elong	5309 Mar 18 04:00	27° H 57'53	
direct	5308 Apr 15 23:35	5° Υ 33'47		min. Earth dist.	5309 Mar 19 19:01		0.65974 AU
desc. node	5308 Apr 21 21:37	7° Υ 19'23		morning rise	5309 Mar 23 15:56	21°) 39'55	0.03774710
morning max el	5308 Apr 29 14:29	13° Υ 30'39	27°26'08	direct	5309 Mar 30 02:35	18°) 50'46	
morning max ci	5308 May 12 21:23	0° 8	27 2000	desc. node	5309 Apr 08 18:40	23° H 28'52	
	5308 May 31 01:39	0°II		morning max el	5309 Apr 12 00:25	26° X 30'19	26°30'11
morning set	5308 Jun 03 19:52	7° П 11'58		morning max ci	5309 Apr 15 06:14	20 γ (3019	20 30 11
max. Earth dist.	5308 Jun 08 14:41		1.33328 AU		5309 Apr 13 06.14 5309 May 06 11:42	0°8	
max. Earm uist.	2200 Juli 00 14.41	10 1131 13	1.55540 AU	morning set	5309 May 18 00:48	20° 8 19'28	
superior coni	5308 Jun 11 22:02	23° ∏ 47'52	-0°07'00	max. Earth dist.		20° 8 19'28	1 3/170/ 411
superior conj minimum elong	5308 Jun 11 22:02 5308 Jun 11 22:24	23° П 47'52 23° П 49'50		max. Earm dist.	5309 May 22 03:18	28° O 14'37 0°Ⅱ	1.34704 AU
minimum ciong	2 NO 100 LL 7.7. 7.4	49 1149 30	0 0700		5309 May 23 00:34	υщ	
•		230H22120					
behind sun begin	5308 Jun 11 17:28	23° Ⅱ 23'39		superior con:	5300 May 26 20-25	70 TA6121	0.36140
behind sun begin behind sun end	5308 Jun 11 17:28 5308 Jun 12 03:20	24° Ⅱ 16′02		superior conj	5309 May 26 20:35	7° Ⅱ 46'21	
behind sun begin	5308 Jun 11 17:28 5308 Jun 12 03:20 5308 Jun 12 14:34	24°Ⅲ16′02 25°Ⅲ15′57		minimum elong	5309 May 26 22:36	7° Ⅱ 56'40	
behind sun begin behind sun end asc. node	5308 Jun 11 17:28 5308 Jun 12 03:20 5308 Jun 12 14:34 5308 Jun 14 19:37	24°∏16′02 25°∏15′57 0°©		minimum elong asc. node	5309 May 26 22:36 5309 May 30 11:37	7° Ⅱ 56'40 15° Ⅱ 18'53	
behind sun begin behind sun end	5308 Jun 11 17:28 5308 Jun 12 03:20 5308 Jun 12 14:34	24°Ⅲ16′02 25°Ⅲ15′57		minimum elong	5309 May 26 22:36	7° Ⅱ 56'40	

evening max el	5309 Jun 22 11:53	24°5540'09	20°53'45	asc. node	5310 May 17 08:38	5° Ⅱ 13'16	
	5309 Jul 01 03:06	0 $^{\circ}$ Ω		evening rise	5310 May 18 15:43	7° Ⅱ 50′35	
retrograde	5309 Jul 04 01:52	0° Ω 21'43			5310 May 30 23:24	0 \circ \odot	
desc. node	5309 Jul 05 17:52	0° Ω 15'04		evening max el	5310 Jun 04 22:44	6° ॐ 00'35	19°41'40
evening set	5309 Jul 06 05:20	0° Ω 10'47		retrograde	5310 Jun 14 19:14	10° © 49'48	
	5309 Jul 07 02:53	30° ₹ 55		evening set	5310 Jun 16 17:15	10° © 39'39	
inferior conj	5309 Jul 15 12:57	26°513'41		desc. node	5310 Jun 22 14:54	8° © 21'32	
minimum elong	5309 Jul 15 05:16	26°524'34	2°48'31	inferior conj	5310 Jun 25 12:52	6°936'38	
min. Earth dist.	5309 Jul 16 06:50	25°548'21	0.54804 AU	minimum elong	5310 Jun 25 10:28	6°\$40'22	0°51'30
morning rise	5309 Jul 24 05:09	22°513'17		min. Earth dist.	5310 Jun 27 19:30	5°5011'39	0.55494 AU
direct	5309 Jul 27 22:01	21°543'48	22052154	morning rise	5310 Jul 04 01:27	2° © 07'10 1° © 22'22	
morning max el	5309 Aug 09 21:54	27° © 57′00 0° Ω	22-55-54	direct	5310 Jul 08 13:23 5310 Jul 22 11:38	8°9518'45	24020101
asc. node	5309 Aug 11 23:07	0 δt 21° Ω 38'21		morning max el	5310 Aug 07 10:06	0°Ω	24 36 01
asc. node	5309 Aug 26 10:53 5309 Aug 30 16:21	0°M)		asc. node	5310 Aug 07 10.06 5310 Aug 13 07:55	11° Ω 06'13	
morning set	5309 Sep 01 13:35	3° Mp 55'29		morning set	5310 Aug 17 01:20	11° 0 0013	
morning set	3307 ВСР 01 13.33	3 Hy 33 27		morning set	5310 Aug 17 01:20 5310 Aug 22 05:33	0° Mp	
superior conj	5309 Sep 08 14:56	19° m 01'53	1°40'04		S	ì	
minimum elong	5309 Sep 08 13:44	18° m 55′29	1°40'01	superior conj	5310 Aug 23 23:44	3° m 50'34	1°30'53
max. Earth dist.	5309 Sep 11 13:49	25° Mp 16'35	1.33841 AU	minimum elong	5310 Aug 23 21:46	3°M 39'46	1°30'41
	5309 Sep 13 20:46	0∘ ত		max. Earth dist.	5310 Aug 25 16:57	7° Mp 34'27	1.32768 AU
evening rise	5309 Sep 16 09:38	5° ഫ 05'11		evening rise	5310 Aug 31 06:01	19° m 15'44	
	5309 Sep 30 09:16	0° M,			5310 Sep 05 17:25	0∘ ⊽	
desc. node	5309 Oct 01 17:06	2°M05'28		desc. node	5310 Sep 18 14:08	21° ≏ 36'54	
evening max el	5309 Oct 20 22:01	26°M45'23	27°14'20		5310 Sep 24 15:02	0° M	
	5309 Oct 24 16:22	0° ∡ 7		evening max el	5310 Oct 03 08:47	9° M 51'40	27°27'15
retrograde	5309 Nov 03 07:57	4° ≯ 03'13		retrograde	5310 Oct 17 01:27	17°M07'37	
evening set	5309 Nov 10 05:54	1° ≯ 23'38		evening set	5310 Oct 24 05:22	14°M34'28	
	5309 Nov 11 21:08	30°RM		min. Earth dist.	5310 Oct 27 21:17	11°M28'37	
min. Earth dist.	5309 Nov 14 02:18	27°M46'04	0.64858 AU	inferior conj	5310 Oct 30 14:31	8° M 47'57	
inferior conj	5309 Nov 16 07:47	25°M19'30		minimum elong	5310 Oct 30 19:53	8°M34'42	3°03'57
minimum elong	5309 Nov 16 11:20	25°M09'45	2°00'40	morning rise	5310 Nov 06 11:59	3°M34'21	
asc. node	5309 Nov 22 10:08	19°M58'19		direct	5310 Nov 08 21:40	3°M07'03	
morning rise	5309 Nov 22 17:55	19°M48'59		asc. node	5310 Nov 09 07:10	3°M07'48	17040107
direct	5309 Nov 25 08:43	19°M12'59	10000101	morning max el	5310 Nov 15 12:48	6°M32'26	17°49'27
morning max el	5309 Dec 01 19:55	22° M .38'55 0° ∡ 7	18°00'01	marning sat	5310 Nov 30 20:50 5310 Dec 01 19:24	0° ҂ 1° ҂ 38'40	
marning got	5309 Dec 07 15:17	0 x . 19° x 11′23		morning set	3310 Dec 01 19.24	1 × 3640	
morning set	5309 Dec 19 11:51 5309 Dec 26 00:43	19 メ ・11 23		superior conj	5310 Dec 13 18:15	22° ₹ 06'43	0°12'40
desc. node	5309 Dec 28 16:24	0 3 4° 3 19′28		minimum elong	5310 Dec 13 18:13	22° 🖈 12'06	
desc. Hode	3309 DCC 28 10.24	4 01926		behind sun begin	5310 Dec 13 13:35	21° х 47'21	0 12 31
superior conj	5310 Jan 02 10:29	11° る 58'14	-0°32'43	behind sun end	5310 Dec 13 13:33 5310 Dec 14 01:31	22° 🗷 36'50	
minimum elong	5310 Jan 02 06:30	11° る 42'20		desc. node	5310 Dec 14 01:31 5310 Dec 15 13:23	25°×704'52	
max. Earth dist.	5310 Jan 06 11:11	18° る 21'37	1.45042 AU	dese. Hode	5310 Dec 18 13:49	0°る	
man. Barun dibe.	5310 Jan 13 21:54	0°≈	1.100.2110	max. Earth dist.	5310 Dec 20 04:50	2° る 37'04	1.44033 AU
evening rise	5310 Jan 18 16:24	7° ≈ 22'38		evening rise	5310 Dec 29 02:33	16° ප 36'43	
greatest brilliancy	5310 Feb 01 18:41	28° ≈ 47'58	-0.6m	<i>5</i>	5311 Jan 06 22:16	0° ≈	
	5310 Feb 02 14:15	0° ∀		evening max el	5311 Jan 27 15:35	28° ≈ 01'42	20°59'09
evening max el	5310 Feb 13 15:35	14°) €27'18	19°53'49	-	5311 Jan 29 17:46	0° ∀	
asc. node	5310 Feb 18 09:23	18°) €08'23		retrograde	5311 Feb 05 02:50	3°) €02'10	
retrograde	5310 Feb 21 04:36	18°) 49′55		asc. node	5311 Feb 05 06:25	3°) €02'02	
evening set	5310 Feb 24 21:25	17° ¥ 29'55		evening set	5311 Feb 09 04:59	1°) 27′16	
inferior conj	5310 Mar 02 07:06	11° ∺ 29′28	3°10'15		5311 Feb 10 18:54	30° R ≈	
minimum elong	5310 Mar 02 05:07	11° ∺ 36′07	3°09'53	inferior conj	5311 Feb 14 13:06	25° ≈ 14'51	2°42'33
min. Earth dist.	5310 Mar 03 06:23	10° 升 11′35	0.67108 AU	minimum elong	5311 Feb 14 10:43	25° ≈ 23'03	2°41'56
morning rise	5310 Mar 07 12:36	5°) (14'47		min. Earth dist.	5311 Feb 14 23:14	24° ≈ 39'54	0.67813 AU
direct	5310 Mar 13 11:11	2°) 35′32		morning rise	5311 Feb 19 16:18	19° ≈ 01'34	
morning max el	5310 Mar 25 09:29	9°) 43′14	25°13'15	direct	5311 Feb 25 00:45	16° ≈ 40′01	
desc. node	5310 Mar 26 15:41	11°)(01'44		morning max el	5311 Mar 07 18:19	23°≈03'46	23°45'32
	5310 Apr 10 10:14	0° Υ		desc. node	5311 Mar 13 12:41	29°≈34'29	
	5310 Apr 29 02:28	0° 8			5311 Mar 13 20:57	0°) €	
morning set	5310 Apr 30 13:29	2° 8 36'09	1.02555 :		5311 Apr 03 19:02	0°Υ	
max. Earth dist.	5310 May 04 05:16	9° 8 18'18	1.36525 AU	morning set	5311 Apr 12 04:18	13° Y 47'44	1.20650 : **
	5210.N5 10 00 40	310 4 1 210 2	1007/22	max. Earth dist.	5311 Apr 16 01:10	20° Y 30'57	1.38650 AU
superior conj	5310 May 10 09:48	21° 8 13'00			5311 Apr 21 06:55	0°8	
minimum elong	5310 May 10 13:30	21° 8 31'20	1,02,22	auporior cor:	5211 Amm 22 10:05	201250100	1024121
	5310 May 14 18:54	Π °0		superior conj	5311 Apr 23 10:05	3° 8 59'09	-1 34/21

minimum elong	5311 Apr 23 15:01	4° 8 22'24	1°33'44	asc. node	5312 Apr 20 02:43	14° 8 18'54	
evening rise	5311 May 02 13:00	21° 8 37'33			5312 Apr 30 12:05	$\Pi^{\circ}0$	
asc. node	5311 May 04 05:40	24° 8 55'07		evening max el	5312 May 01 03:47		18°18'20
	5311 May 06 21:37	Π $^{\circ}0$		retrograde	5312 May 08 08:44	4° Ⅱ 15'40	
evening max el	5311 May 18 21:04	18° Ⅱ 02'50	18°49'46	evening set	5312 May 10 17:58	3° Ⅱ 52'57	
retrograde	5311 May 27 04:32	22° Ⅱ 07'45			5312 May 17 00:51	30° ₹ 8	
evening set	5311 May 29 06:46	21° Ⅱ 53'12		inferior conj	5312 May 17 22:57	29° 8 13'39	
inferior conj	5311 Jun 06 07:04	17° ∏ 33'52	0°55'35	minimum elong	5312 May 18 02:25	29° 8 06'16	2°13'53
minimum elong	5311 Jun 06 09:08	17° Ⅱ 30′07	0°54'49	min. Earth dist.	5312 May 21 09:20	26° 8 20'18	0.59044 AU
desc. node	5311 Jun 09 11:55	15° Ⅱ 15'31		morning rise	5312 May 25 07:53	23° 8 36'50	
min. Earth dist.	5311 Jun 09 11:46	15° Ⅱ 15'47	0.57009 AU	desc. node	5312 May 26 08:56	23° 8 04'46	
morning rise	5311 Jun 14 08:09	12° Ⅲ 27'43		direct	5312 May 31 13:44	21° 8 51'22	
direct	5311 Jun 19 18:25	11° Ⅱ 16′20		morning max el	5312 Jun 14 23:06	29° 8 39'41	27°18'50
morning max el	5311 Jul 04 02:39	18° ∏ 44'44	26°11'23		5312 Jun 15 07:18	0°II	
	5311 Jul 13 13:41	0° ©			5312 Jul 06 11:44	0°©	
i	5311 Jul 30 18:55	0° N		morning set	5312 Jul 15 20:47	18°915'57	
asc. node	5311 Jul 31 04:56	0° Ω 51'53		asc. node	5312 Jul 17 01:58	20°549'57	
morning set	5311 Aug 01 12:16	3° Ω 36′18			5312 Jul 21 07:25	$0^{\circ}\Omega$	
superior conj	5311 Aug 08 10:58	18° Ω 44'18	1°16'37	superior conj	5312 Jul 22 22:48	3° Ω 37'19	
minimum elong	5311 Aug 08 08:40	18° Ω 31'38	1°16'16	minimum elong	5312 Jul 22 20:40	3° Ω 25'29	0°57'27
max. Earth dist.	5311 Aug 09 01:46	20° Ω 05'55	1.32123 AU	max. Earth dist.	5312 Jul 22 12:57	2° Ω 42'53	1.31903 AU
	5311 Aug 13 14:56	0°m)		evening rise	5312 Jul 29 18:08	18° Ω 28'38	
evening rise	5311 Aug 15 09:40	3° m 45'56			5312 Aug 04 10:01	0° m	
	5311 Aug 29 11:33	0° ⊽		desc. node	5312 Aug 22 08:12	28° Th 20'44	
desc. node	5311 Sep 05 11:10	10° £ 27'26	27000101		5312 Aug 23 18:02	0∘ ⊽	26915120
evening max el	5311 Sep 15 15:05	22° £ 20'14	2/908/01	evening max el	5312 Aug 27 14:45	4° £ 02'30	26°15'29
retrograde	5311 Sep 29 11:53	29° Ω 32'36		retrograde	5312 Sep 10 13:53	11° £ 10'36	
evening set	5311 Oct 06 13:51	27° £ 17'45	0.61220.411	evening set	5312 Sep 17 02:36	9° £ 26'23	0.50164.411
min. Earth dist.	5311 Oct 10 05:34	24° £ 34'57	0.61238 AU	min. Earth dist.	5312 Sep 21 03:55	6° £ 51'34 4° £ 24'04	
inferior conj	5311 Oct 13 08:19 5311 Oct 13 14:40	21° £ 52'23 21° £ 38'30	4°04'18	inferior conj	5312 Sep 24 09:43 5312 Sep 24 15:00	4° £ 24'04 4° £ 14'01	
minimum elong morning rise	5311 Oct 13 14.40 5311 Oct 20 17:28	21 2 38 30 16° 2 59'01	4 04 18	minimum elong	5312 Sep 24 13:00 5312 Oct 01 19:58	4 ==1401 30°RMp	4 33 40
direct	5311 Oct 20 17:28 5311 Oct 23 00:55	16° ⊆ 39'01		morning rise	5312 Oct 01 19:38 5312 Oct 02 05:37	29° Mp 53'05	
asc. node	5311 Oct 27 04:12	10 = 57 11 17° £ 50'14		direct	5312 Oct 02 03:37 5312 Oct 04 14:19	29° m 33'54	
morning max el	5311 Oct 27 04:12 5311 Oct 30 03:33	20° £ 10'39	17°57'20	direct	5312 Oct 04 14:19 5312 Oct 07 06:42	0° ⊡	
morning max er	5311 Nov 06 10:39	0°M	17 37 20	morning max el	5312 Oct 17 00:42 5312 Oct 12 12:49	3° - 24'40	18°25'01
morning set	5311 Nov 14 21:27	14°M58'15		asc. node	5312 Oct 12 12:49 5312 Oct 13 01:14	3° £ 55'25	10 23 01
morning set	5311 Nov 23 04:17	0° √		morning set	5312 Oct 28 12:35	28° £ 54'53	
	33111(07 23 01.17	· /		morning sec	5312 Oct 29 02:09	0°M	
superior conj	5311 Nov 25 04:30	3° ∡ ³32'13	0°50'11			•	
minimum elong	5311 Nov 25 08:12	3° х 48′26	0°49'42	superior conj	5312 Nov 06 13:47	16°M04'35	1°17'17
desc. node	5311 Dec 02 10:24	15° √ 51'48		minimum elong	5312 Nov 06 17:28	16°M21'30	1°16'52
max. Earth dist.	5311 Dec 02 17:40	16° ∡ ¹21'50	1.42443 AU	max. Earth dist.	5312 Nov 14 01:23	29°M25'53	1.40473 AU
evening rise	5311 Dec 08 21:08	26° ∡ 17'47			5312 Nov 14 09:19	0° ∡ ¹	
	5311 Dec 11 05:42	8°0		evening rise	5312 Nov 18 11:37	6° ₹ 54'19	
	5311 Dec 31 18:45	0° ≈		desc. node	5312 Nov 18 07:27	6° ∡ ³37′04	
evening max el	5312 Jan 10 10:16	11° ≈ 37'16	22°14'21		5312 Dec 03 08:25	0°₹	
retrograde	5312 Jan 19 23:35	17° ≈ 18'15		evening max el	5312 Dec 23 01:11	25° ප 16'33	23°34'10
asc. node	5312 Jan 23 03:28	16° ≈ 25'37			5312 Dec 28 19:32	0° ≈	
evening set	5312 Jan 24 12:38	15° ≈ 27'59		retrograde	5313 Jan 02 17:27	1° ≈ 34'55	
inferior conj	5312 Jan 29 20:59	9° ≈ 06'56	2°06'09		5313 Jan 07 03:14	30°₽₹	
minimum elong	5312 Jan 29 18:41	9° ≈ 14'56	2°05'25	evening set	5313 Jan 07 18:50	29° る 29'12	
min. Earth dist.	5312 Jan 29 19:15	9° ≈ 13′00	0.68116 AU	asc. node	5313 Jan 09 00:30	28° ප 19'16	
morning rise	5312 Feb 04 00:36	2° ≈ 56'30		min. Earth dist.	5313 Jan 12 16:04	23° る 47'26	0.68043 AU
direct	5312 Feb 08 18:25	0° ≈ 56'44		inferior conj	5313 Jan 13 04:55	23° る 03'27	1°22'13
morning max el	5312 Feb 18 05:26	6° ≈ 30'37	22°16'49	minimum elong	5313 Jan 13 03:09	23° る 09'29	1°21'34
desc. node	5312 Feb 28 09:41	18° ≈ 49'45		morning rise	5313 Jan 18 11:25	16° ろ 57'39	
	5312 Mar 07 07:34	0° ∀		direct	5313 Jan 22 15:15	15° る 20'35	
morning set	5312 Mar 22 15:43	23°)(40'04		morning max el	5313 Jan 30 22:24	20° る 07'32	20°55'13
	5312 Mar 26 12:04	0° Υ			5313 Feb 08 03:15	0° ≈	
max. Earth dist.	5312 Mar 27 21:58	2° Y 22'07	1.40839 AU	desc. node	5313 Feb 14 06:43	8°≈36'00	
	5010 / OX :	1.5000	105000		5313 Feb 28 12:34	0°) (1,515.5	
superior conj	5312 Apr 04 16:54	15° ℃ 53'33		morning set	5313 Mar 01 23:58	2° H 17'55	
minimum elong	5312 Apr 04 21:33	16° Y 14'18	1°56′18	max. Earth dist.	5313 Mar 10 01:25	15° ∺ 08'42	1.42817 AU
i ·	5312 Apr 12 09:41	0°8			5212 14 17 01 21	2601/45/25	2000120
evening rise	5312 Apr 14 23:41	4° 8 50'05		superior conj	5313 Mar 17 01:21	26° ∺ 45'27	-2-08-30

minimum elong	5313 Mar 17 02:49	26°) €51'40	2°08'29	superior conj	5314 Feb 25 08:21	6°) €29'48	-2°04'17
g	5313 Mar 18 23:03	0°Υ	2 00 2	minimum elong	5314 Feb 25 03:43	6°) (11'04	
evening rise	5313 Mar 28 19:40	17° Υ 18'53		evening rise	5314 Mar 10 20:34	28°) 55'48	_ ,,,,,
8	5313 Apr 05 00:18	0°8		<i>8</i>	5314 Mar 11 11:41	$_{0}$ ° γ	
asc. node	5313 Apr 06 23:46	3° 8 18'05		asc. node	5314 Mar 24 20:49	21° Y 45'05	
evening max el	5313 Apr 14 15:17	13° 8 42'06	18°06'36	evening max el	5314 Mar 29 04:16	27° Y ′00′36	18°13'51
retrograde	5313 Apr 21 05:21	17° 8 04'42		S	5314 Apr 02 09:52	0°B	
evening set	5313 Apr 23 21:24	16° 8 31'20		retrograde	5314 Apr 04 14:00	0° 8 24'56	
inferior conj	5313 Apr 30 10:23	11° 8 31'34	3°03'49	Č	5314 Apr 06 18:00	30° Ŗ ♈	
minimum elong	5313 Apr 30 13:05	11° 8 24'56	3°03'20	evening set	5314 Apr 07 12:23	29° Ƴ 39'35	
min. Earth dist.	5313 May 03 13:59	8° 8 27'47	0.61257 AU	inferior conj	5314 Apr 13 13:23	24° Y 20'23	3°27'36
morning rise	5313 May 07 02:46	5° 8 34'46		minimum elong	5314 Apr 13 14:32	24° Ƴ 17'14	3°27'31
desc. node	5313 May 13 05:59	3° 8 18'12		min. Earth dist.	5314 Apr 16 03:34	21° Y 29'26	0.63348 AU
direct	5313 May 13 20:25	3° 8 17'08		morning rise	5314 Apr 19 15:35	18° Υ 12'22	
morning max el	5313 May 28 01:48	11° 8 15'12	27°50'52	direct	5314 Apr 26 11:57	15° Ƴ 32'23	
. 8	5313 Jun 11 18:28	0°II		desc. node	5314 Apr 30 03:00	16° Ƴ 11'59	
	5313 Jun 28 17:35	0ಂತಾ		morning max el	5314 May 10 09:28	23° Y 31'48	27°45'14
morning set	5313 Jun 30 00:57	2°539'51		. 8	5314 May 16 04:06	0°8	
asc. node	5313 Jul 03 23:00	10°954'46			5314 Jun 05 01:51	0°II	
max. Earth dist.	5313 Jul 05 22:40	15°512'46	1.32113 AU	morning set	5314 Jun 13 22:32	16° ∏ 41'28	
man. Darm dist.	0515 041 05 22.10	10 012 .0	1.52115110	max. Earth dist.	5314 Jun 19 03:08	27° I I24'04	1.32761 AU
superior conj	5313 Jul 07 09:25	18° © 22'47	0°35'09	max. Earth dist.	5314 Jun 20 08:26	0°95	1.52701710
minimum elong	5313 Jul 07 07:54	18° © 14'28	0°34'48	asc. node	5314 Jun 20 20:04	1° © 02'15	
minimum ciong	5313 Jul 12 16:45	0°Ω	0 34 40	ase. Houe	3314 Juli 20 20.04	1 302 13	
evening rise	5313 Jul 14 05:13	3°Ω16'00		superior conj	5314 Jun 21 17:03	2°955'06	0°09'06
evening rise	5313 Jul 28 12:06	0° mp		minimum elong	5314 Jun 21 16:36	2° 9 52'43	0°08'59
desc. node	5313 Aug 09 05:15	14° Mp 52'48		behind sun begin	5314 Jun 21 12:12	2°9528'58	0 0037
evening max el	5313 Aug 09 07:03	14° Mp 57'08	24°54'46	behind sun end	5314 Jun 21 12:12	3°916'30	
retrograde	5313 Aug 23 04:54	21° m 58'30	24 34 40	evening rise	5314 Jun 28 17:02	18° © 01'59	
evening set	5313 Aug 28 15:13	20° m 51'50		evening rise	5314 Jul 04 14:07	0°Ω	
min. Earth dist.	5313 Aug 28 13:13 5313 Sep 02 18:30		0.57200 AU	evening max el	5314 Jul 21 19:28		23°18'32
inferior conj	5313 Sep 02 18:30 5313 Sep 05 15:38	16° Mp 12'52		desc. node	5314 Jul 27 02:16	29° Ω 33'01	23 18 32
minimum elong	5313 Sep 05 15:38	16° Mp 11'26		desc. flode	5314 Jul 27 02:10	0° Mp	
morning rise	5313 Sep 03 10:30 5313 Sep 13 20:06	12° Mp 04'05	3 10 17	retrograde	5314 Aug 04 07:20	2° Mp 06'09	
direct	5313 Sep 15 20:00 5313 Sep 16 09:55	12 mg 04 03 11° mg 45'07		evening set	5314 Aug 04 07:20 5314 Aug 08 05:47	1° Mp 32'17	
morning max el	5313 Sep 16 05:55 5313 Sep 25 13:04	16° Mp 03'23	19°14'03	evening set	5314 Aug 12 03:29	1 11√32 17 30°RΩ	
asc. node	5313 Sep 29 22:16	21° Mp 07'27	17 14 05	min. Earth dist.	5314 Aug 15 04:48		0.55657 AU
use. Houe	5313 Oct 05 13:22	0° ರ		inferior conj	5314 Aug 17 01:35	27°Ω14'52	
morning set	5313 Oct 12 12:38	0 — 13° Ω 16'15		minimum elong	5314 Aug 16 19:56	27° Ω 23'11	
				morning rise	5314 Aug 25 12:26	23° Ω 22'30	
superior conj	5313 Oct 20 16:41	29° Ω 27'47	1°34'14	direct	5314 Aug 28 10:22	23° Ω 01'59	
minimum elong	5313 Oct 20 19:06		1°34'03	morning max el	5314 Sep 08 01:43	27° Ω 58'47	20°25'03
Z .	5313 Oct 20 23:20	0°M		C	5314 Sep 10 01:28	0° m	
max. Earth dist.	5313 Oct 27 06:23	11° M 49'22	1.38361 AU	asc. node	5314 Sep 16 19:18	9° m 12'05	
evening rise	5313 Oct 31 00:57	18°M32'35		morning set	5314 Sep 26 18:38	27° m 54'16	
desc. node	5313 Nov 05 04:30	27°M16'18		S	5314 Sep 27 19:08	$0 \circ \overline{\mathbf{v}}$	
	5313 Nov 06 20:34	0° ∡ ¹			1		
	5313 Nov 27 15:14	გ∘ი		superior conj	5314 Oct 04 08:21	13° ≏ 28'25	1°42'16
evening max el	5313 Dec 05 14:14	8° る 59'42	24°52'16	minimum elong	5314 Oct 04 09:12	13° ≏ 32'44	1°42'15
retrograde	5313 Dec 17 07:11	15° る 47'44		max. Earth dist.	5314 Oct 09 13:19	23° ≏ 46'50	1.36352 AU
evening set	5313 Dec 22 22:00	13° る 27'24			5314 Oct 12 20:20	0° M	
asc. node	5313 Dec 26 21:32	9° る 04'36		evening rise	5314 Oct 13 10:52	1°M07'02	
min. Earth dist.	5313 Dec 27 11:17	8° る 19'50	0.67606 AU	desc. node	5314 Oct 23 01:31	17° M 45'05	
inferior conj	5313 Dec 28 11:04	7° る 01'26	0°31'38		5314 Oct 30 23:33	0° ⊼ ¹	
minimum elong	5313 Dec 28 10:18	7° る 03'58	0°31'20	evening max el	5314 Nov 18 02:52	22° ҂ ¹43'25	26°01'24
morning rise	5314 Jan 02 22:44	1° る 02'19		retrograde	5314 Nov 30 16:05	29° х 51′07	
-	5314 Jan 05 00:57	30°₽ ⋌ ¹		evening set	5314 Dec 06 20:23	27° ҂ 18'43	
direct	5314 Jan 06 13:48	29° х 46′38		min. Earth dist.	5314 Dec 11 02:32	22° х 46′16	0.66813 AU
	5314 Jan 08 03:40	0°ප		inferior conj	5314 Dec 12 13:33	20° ₹ 57'10	
morning max el	5314 Jan 13 23:16	3°₹56′21	19°46'04	minimum elong	5314 Dec 12 14:12	20° ₹ 55'07	
greatest brilliancy	5314 Jan 27 01:34	21° る 07'44	-0.6m	asc. node	5314 Dec 13 18:34	19° ∡ 27'55	
desc. node	5314 Feb 01 03:45	28° る 44'50		morning rise	5314 Dec 18 08:31	15° ∡ 07'11	
	5314 Feb 01 23:36	0° ≈		direct	5314 Dec 21 12:29	14° ∡ *09'57	
morning set	5314 Feb 08 20:17	10° ≈ 30'05		morning max el	5314 Dec 28 07:40	17° ∡ 754'24	18°51'58
max. Earth dist.	5314 Feb 20 12:53	28° ≈ 47'03	1.44323 AU	5	5315 Jan 06 15:01	0°る	-
	5314 Feb 21 07:13	0°) €	-	morning set	5315 Jan 19 05:40	19° る 28'38	
				desc. node	5315 Jan 19 00:46	19° る 09'28	

max. Earth dist.	5315 Jan 25 23:00 5315 Feb 03 05:56	0° ≈ 12° ≈ 58'59	1.45177 AU	desc. node	5315 Dec 30 20:51 5316 Jan 05 21:48	0°궁 9° 궁 45'27	
	5215 F 1 04 17 45	15010145	1040117		5216 X 14 21 10	240 = 01110	0050141
superior conj minimum elong	5315 Feb 04 17:45 5315 Feb 04 08:29	15°≈19'45 14°≈43'17		superior conj minimum elong	5316 Jan 14 21:18 5316 Jan 14 14:02	24° පි 01'18 23° පි 32'40	
minimum ciong	5315 Feb 13 23:49	0° \	1 39 20	max. Earth dist.	5316 Jan 17 01:06	23 3 3240 27° 3 24'45	1.45299 AU
evening rise	5315 Feb 19 22:46	9°) 35'14		man. Bartir dist.	5316 Jan 18 16:43	0°≈	1.102//110
Č	5315 Mar 04 17:17	$0^{\circ}\mathbf{\Upsilon}$		evening rise	5316 Jan 31 02:26	19° ≈ 22'05	
asc. node	5315 Mar 11 17:51	9° Ƴ 29'21			5316 Feb 06 22:14	0°) €	
evening max el	5315 Mar 12 15:54	10° Y 27'51	18°39'24	greatest brilliancy	5316 Feb 11 20:22	7°) 34′26	-0.7m
retrograde	5315 Mar 19 06:24	14° Υ 06'48		evening max el	5316 Feb 24 00:02	23°) 59'41	19°22'09
evening set	5315 Mar 22 11:10	13° Y 08'41 7° Y 31'47	2022102	asc. node	5316 Feb 26 14:52	26° 升 18'47 28° 升 04'07	
inferior conj minimum elong	5315 Mar 28 03:55 5315 Mar 28 03:31	7° Y 31'47	3°32'02 3°32'00	retrograde evening set	5316 Mar 02 03:03 5316 Mar 05 15:02	26° X 52'30	
min. Earth dist.	5315 Mar 30 02:35	5° Υ 10'20	0.65127 AU	inferior conj	5316 Mar 11 02:34	20 \(\chi_{3230}\)	3°21'39
morning rise	5315 Apr 02 19:19	1° Υ 18'24	0.00127110	minimum elong	5316 Mar 11 01:02	21° X 05'01	3°21'27
S	5315 Apr 04 13:20	30° ₹ ₩		min. Earth dist.	5316 Mar 12 10:05	19°) 17′29	0.66505 AU
direct	5315 Apr 09 10:58	28°) 29′02		morning rise	5316 Mar 16 10:43	14°) (44′55	
	5315 Apr 14 20:01	$0^{\circ}\mathbf{\Upsilon}$		direct	5316 Mar 22 16:29	11°) ₹ 58'46	
desc. node	5315 Apr 17 00:02	1° Y 19'39		desc. node	5316 Apr 02 21:04	18° ∺ 08'01	
morning max el	5315 Apr 22 19:33	6° Y 19'59	27°05'34	morning max el	5316 Apr 04 05:25	19°) €27'22	25°59'25
	5315 May 10 23:25	0° 8			5316 Apr 13 04:58	$^{\circ \gamma}$	
morning set	5315 May 28 10:36 5315 May 28 08:10	0° П 11'43 0° П		morning set	5316 May 03 01:22 5316 May 10 09:17	0° と 12° と 59'51	
max. Earth dist.	5315 May 28 08.10 5315 Jun 01 22:29	9° П 06'15	1.33864 AU	max. Earth dist.	5316 May 14 06:17	20° 8 18'48	1.35429 AU
max. Lartii dist.	3313 Juli 01 22.29) H 00 13	1.55004 710	max. Earth dist.	5316 May 19 03:57	0°II	1.55427110
superior conj	5315 Jun 05 19:34	17° Ⅱ 07'31	-0°19'32		001011111111111111111111111111111111111	~ ~	
minimum elong	5315 Jun 05 20:36	17° Ⅱ 12'56	0°19'19	superior conj	5316 May 19 14:32	0°∏53′29	-0°49'25
asc. node	5315 Jun 07 17:06	21° Ⅲ 07′50		minimum elong	5316 May 19 17:16	1° Ⅱ 07′23	0°48'55
	5315 Jun 11 21:19	0ංම		asc. node	5316 May 24 14:08	11° Ⅱ 07'43	
evening rise	5315 Jun 13 03:40	2° 5 39'49		evening rise	5316 May 27 11:04	17° Ⅱ 03'30	
	5315 Jun 28 12:23	0°N			5316 Jun 03 01:07	0.2	
evening max el	5315 Jul 03 12:00	5° Ω 46'19	21°43'03	evening max el	5316 Jun 14 15:37	16°543'36	20°20'40
desc. node retrograde	5315 Jul 13 23:16 5315 Jul 15 23:19	11° Ω 47'25 11° Ω 56'52		retrograde evening set	5316 Jun 25 12:31 5316 Jun 27 11:31	22° © 03'01 21° © 53'22	
evening set	5315 Jul 18 13:35	11° Ω 41'39		desc. node	5316 Jun 29 20:17	21°93322 21°917'50	
inferior conj	5315 Jul 27 21:18	7° Ω 40'08	-3°51'12	inferior conj	5316 Jul 06 15:34	17°955'34	-2°01'22
minimum elong	5315 Jul 27 12:25	7° £ 52'34	3°48'44	minimum elong	5316 Jul 06 09:54	18° © 03'52	1°59'19
min. Earth dist.	5315 Jul 27 14:43	7° Ω 49'21	0.54845 AU	min. Earth dist.	5316 Jul 08 02:30	17° © 04'28	0.54979 AU
morning rise	5315 Aug 05 12:34	3° Ω 48'43		morning rise	5316 Jul 15 07:08	13° 5 544'11	
direct	5315 Aug 08 20:56	3° Ω 24'14		direct	5316 Jul 19 07:10	13° © 09'32	
morning max el	5315 Aug 21 02:31	9° Ω 09'01	21°55'45	morning max el	5316 Aug 01 18:41	19°5543'04	23°38'28
asc. node	5315 Sep 03 16:21	27° Ω 57'05			5316 Aug 10 10:02	0°Ω 17°Ω11157	
morning set	5315 Sep 04 19:10 5315 Sep 11 04:19	0° Mp 12° Mp 42'35		asc. node morning set	5316 Aug 20 13:23 5316 Aug 25 15:47	17° Ω 11'57 27° Ω 35'08	
morning set	3313 вер 11 04.17	12 110 42 33		morning set	5316 Aug 26 19:01	0° m	
superior conj	5315 Sep 18 08:57	27° m 55'26	1°42'45		23101148 20 13.01	v .y	
minimum elong	5315 Sep 18 08:24	27° m 52'32	1°42'46	superior conj	5316 Sep 01 15:28	12° m 38'52	1°36'51
	5315 Sep 19 08:45	0∘ ⊽		minimum elong	5316 Sep 01 13:53	12° m 30'20	1°36'44
max. Earth dist.	5315 Sep 22 02:53	5° £ 40'43	1.34638 AU	max. Earth dist.	5316 Sep 04 01:07	-•	1.33325 AU
evening rise	5315 Sep 26 13:19	14° £ 27'53		evening rise	5316 Sep 09 04:12	28° m 23'39	
1 1	5315 Oct 05 02:34	0°M		1 1	5316 Sep 09 23:32	0° 亞	
desc. node	5315 Oct 09 22:32 5315 Oct 25 17:45	7° M .58'00 0° ∡ 7		desc. node	5316 Sep 25 19:32	27° ≗ 47'24 0° ™	
evening max el	5315 Oct 25 17.45 5315 Oct 31 15:33	0 x ¹ 6° x ¹21'16	26°54'12	evening max el	5316 Sep 27 06:39 5316 Oct 13 03:32	19°M42'49	27°23'33
retrograde	5315 Oct 31 19:35 5315 Nov 13 19:36	13°×738'40	20 3412	retrograde	5316 Oct 15 05:32 5316 Oct 26 17:11	27°ML01'15	21 23 33
evening set	5315 Nov 20 12:00	10° ≯ 759'18		evening set	5316 Nov 02 18:16	24°M23'01	
min. Earth dist.	5315 Nov 24 11:36	7° ∡ ¹02'10	0.65666 AU	min. Earth dist.	5316 Nov 06 12:22	20°M59'34	0.64178 AU
inferior conj	5315 Nov 26 10:20	4° ∡7 47'12	-1°25'39	inferior conj	5316 Nov 08 23:00	18°M25'32	-2°29'16
minimum elong	5315 Nov 26 12:46	4° ₰ ¹40'08	1°24'38	minimum elong	5316 Nov 09 03:21	18°M14'02	2°27'35
asc. node	5315 Nov 30 15:35	0° х 26′42		morning rise	5316 Nov 15 13:52	13°M01'53	
	5315 Dec 01 05:26	30°RM		asc. node	5316 Nov 16 12:37	12°M42'31	
morning rise	5315 Dec 02 14:30	29°M08'54		direct	5316 Nov 18 02:02	12°M30'09	17052120
direct	5315 Dec 05 09:21 5315 Dec 09 15:11	28°M26'25 0°⊀		morning max el	5316 Nov 24 14:14 5316 Dec 04 14:53	15° ™ 55'11 0° ҂	17°53'20
morning max el	5315 Dec 09 13:11 5315 Dec 11 21:36	1° ∡ 56'32	18°14'10	morning set	5316 Dec 11 13:10	0 x ⁴ 11° x ⁴41'26	
morning set	5315 Dec 30 19:16	29° ₹ 53'36			5316 Dec 22 11:52	0°る	
Ü							

desc. node	5316 Dec 22 18:47	0° る 28'16			5317 Oct 24 22:46	30° ₽ Ω	
				morning rise	5317 Oct 30 03:08	26° ≏ 39'38	
superior conj	5316 Dec 24 14:59	3° ප 27'56	-0°12'53	direct	5317 Nov 01 11:24	26° ≏ 15'02	
minimum elong	5316 Dec 24 13:30	3° る 21'54	0°12'38	asc. node	5317 Nov 03 09:40	26° ≏ 32'09	
behind sun begin	5316 Dec 24 07:10	2° ප 56'14		morning max el	5317 Nov 08 06:33	29° £ 43′05	17°50'22
behind sun end	5316 Dec 24 19:50	3° ⋜ 47'33			5317 Nov 08 13:17	0°M	
max. Earth dist.	5316 Dec 29 19:34	11° පි 46'51	1.44689 AU	morning set	5317 Nov 24 05:21	24°M33'19	
evening rise	5317 Jan 09 14:49	28° ප 37'11		C	5317 Nov 27 06:40	0° √	
8 21	5317 Jan 10 12:23	0° ≈					
	5317 Jan 30 20:42	0°) €		superior conj	5317 Dec 05 10:01	14° ₹ '08'58	0°29'48
evening max el	5317 Feb 06 03:14	7°) 33'34	20°20'13	minimum elong	5317 Dec 05 12:42	14° × 20'24	0°29'26
asc. node	5317 Feb 12 11:54	11° X 58'53	20 20 15	desc. node	5317 Dec 09 15:48	21° х 14'41	0 29 20
retrograde	5317 Feb 12 11:54 5317 Feb 14 01:16	12° X 11'50		max. Earth dist.	5317 Dec 05 13:46 5317 Dec 12 11:19	25° 🖈 50'50	1.43423 AU
•	5317 Feb 14 01:10 5317 Feb 17 21:46	12 X 11 30		max. Latur dist.	5317 Dec 12 11:19 5317 Dec 15 01:15	23 × 30 30	1.43423 AU
evening set		4° ¥ 40'05	2950120			0 3 7° る 58'19	
inferior conj	5317 Feb 23 06:34		2°59'39	evening rise	5317 Dec 20 02:41		
minimum elong	5317 Feb 23 04:21	4°) 47'37			5318 Jan 03 18:41	0° ≈	21020122
min. Earth dist.	5317 Feb 24 00:11		0.67455 AU	evening max el	5318 Jan 20 00:59	21°≈08'37	21°30'22
	5317 Feb 26 21:45	30° R ≈		retrograde	5318 Jan 28 22:55	26° ≈ 25'49	
morning rise	5317 Feb 28 10:42	28° ≈ 25'40		asc. node	5318 Jan 30 08:56	26°≈15′05	
direct	5317 Mar 06 03:30	25°≈52'53		evening set	5318 Feb 02 05:33	24° ≈ 44'30	
	5317 Mar 14 16:06	0° ℋ		inferior conj	5318 Feb 07 13:35	18° ≈ 28′16	2°28'04
morning max el	5317 Mar 17 14:05	2°) 43′40	24°36'38	minimum elong	5318 Feb 07 11:11	18° ≈ 36'36	2°27'24
desc. node	5317 Mar 20 18:04	6° ₩ 08'50		min. Earth dist.	5318 Feb 07 18:35	18° ≈ 10'55	0.67991 AU
	5317 Apr 07 08:27	0 ° $\mathbf{\Upsilon}$		morning rise	5318 Feb 12 16:38	12° ≈ 16′08	
morning set	5317 Apr 22 13:31	24° Ƴ 51'44		direct	5318 Feb 17 18:59	10°≈03'20	
•	5317 Apr 25 10:38	0°B		morning max el	5318 Feb 27 23:14	16°≈05'35	23°07'23
max. Earth dist.	5317 Apr 26 04:26		1.37396 AU	desc. node	5318 Mar 07 15:05	25° ≈ 01'07	
		. 0			5318 Mar 11 09:13	0° ∀	
superior conj	5317 May 02 22:49	14° 8 05'03	-1°18'45		5318 Mar 31 08:58	0° Υ	
minimum elong	5317 May 02 22:19 5317 May 03 03:09	14° 8 26'04		morning set	5318 Apr 03 17:08	5° Υ 30'13	
minimum clong	5317 May 10 23:33	0°Ⅱ	1 1000	max. Earth dist.	5318 Apr 07 23:50	12° Υ 46'38	1.39587 AU
aga mada	-	0° П 57'53		max. Latin dist.	3318 Apr 07 23.30	12 4036	1.39367 AU
asc. node	5317 May 11 11:10				5210 A 15 16 17	2600020152	1044144
evening rise	5317 May 11 12:53	1° II 06'28	10017110	superior conj	5318 Apr 15 16:17	26°Υ30'53	
evening max el	5317 May 28 07:52	28° Ⅱ 23'57	19°17'10	minimum elong	5318 Apr 15 21:22	26° Y 54'16	1°44'13
_	5317 May 30 03:21	0ංම			5318 Apr 17 13:20	0° 8	
retrograde	5317 Jun 06 11:27	2° © 52'17		evening rise	5318 Apr 25 06:06	14° 8 39'52	
evening set	5317 Jun 08 10:38	2°940'48		asc. node	5318 Apr 28 08:13	20° 8 32'49	
	5317 Jun 14 15:45	30°R Ⅱ			5318 May 03 14:17	Π $^{\circ}0$	
inferior conj	5317 Jun 16 22:29	28° Ⅱ 32'08	-0°03'50	evening max el	5318 May 11 10:17	10° Ⅱ 42'32	18°34'00
minimum elong	5317 Jun 16 22:19	28° Ⅲ 32'24	0°03'48	retrograde	5318 May 19 04:47	14° Ⅱ 32'46	
transit middle	5317 Jun 16 22:19	28° Ⅲ 32'24	0°03'48	evening set	5318 May 21 10:06	14° Ⅱ 14'59	
transit begin	5317 Jun 16 18:35	28° Ⅲ 38'35		inferior conj	5318 May 29 01:52	9° Ⅱ 47'11	1°33'01
transit end	5317 Jun 17 02:03	28° Ⅲ 26′13		minimum elong	5318 May 29 04:54	9° Ⅱ 41'19	1°32'01
desc. node	5317 Jun 16 17:19	28° Ⅱ 40'40		min. Earth dist.	5318 Jun 01 10:46	7° Ⅱ 11'40	0.57834 AU
min. Earth dist.	5317 Jun 19 16:48	26° Ⅱ 42'53	0.56053 AU	desc. node	5318 Jun 03 14:21	5° Ⅱ 42'57	
morning rise	5317 Jun 25 07:01	23° Ⅱ 47'03		morning rise	5318 Jun 05 20:28	4° Ⅲ 27'14	
direct	5317 Jun 30 04:37	22° Ⅱ 51'59		direct	5318 Jun 11 15:57	3° Ⅱ 01'53	
	5317 Jul 14 06:36	0ം ഉ		morning max el	5318 Jun 26 01:02	10° Ⅱ 39′09	26°43'55
morning max el	5317 Jul 14 08:13	0°ഇ03'51	25°19'51	. <i>3</i>	5318 Jul 10 22:38	0ಂತಾ	
<i>5</i>	5317 Aug 03 23:38	0°Ω		asc. node	5318 Jul 25 07:28	26° © 40'29	
asc. node	5317 Aug 07 10:25	6° Ω 48'46		morning set	5318 Jul 25 13:33	27° © 12'32	
morning set	5317 Aug 07 10:25 5317 Aug 10 03:24	12° Ω 27'03		morning set	5318 Jul 26 21:03	0°Ω	
morning set	3317 Aug 10 03.24	12 062/03			3316 Jul 20 21.03	0 00	
aumorior comi	5217 Aug 17 01-26	27° Ω 31'19	1925126	gunariar agni	5210 Aug 01 12:10	12° Ω 25'29	1°09'11
superior conj	5317 Aug 17 01:36			superior conj	5318 Aug 01 13:18		
minimum elong	5317 Aug 16 23:25	27° Ω 19'24	1°25'09	minimum elong	5318 Aug 01 11:01	12° Ω 12'50	1°08'48
The state of	5317 Aug 18 04:45	0° m/y	1.00446.477	max. Earth dist.	5318 Aug 01 17:31	12° Ω 48'47	1.31988 AU
max. Earth dist.	5317 Aug 18 07:04	0° Mp 12'39	1.32446 AU	evening rise	5318 Aug 08 10:06	27° £ 21′24	
evening rise	5317 Aug 24 04:05	12° m/44'39			5318 Aug 09 16:28	0°Щ	
	5317 Sep 02 02:54	0∘ ⊽			5318 Aug 26 13:54	0。 ত	
desc. node	5317 Sep 12 16:34	17° ≙ 03'27		desc. node	5318 Aug 30 13:37	5° ჲ 32'08	
	5317 Sep 22 22:58	0° M		evening max el	5318 Sep 07 16:54	14° ≏ 46'12	26°49'33
evening max el	5317 Sep 25 12:57	2°M35'42	27°23'12	retrograde	5318 Sep 21 14:33	21° ≏ 55'45	
retrograde	5317 Oct 09 07:51	9°M49'55		evening set	5318 Sep 28 12:33	19° ≏ 52'48	
evening set	5317 Oct 16 11:53	7°M23'24		min. Earth dist.	5318 Oct 02 06:57	17° ≏ 15'31	0.60368 AU
min. Earth dist.	5317 Oct 20 03:06	4°M28'24	0.62386 AU	inferior conj	5318 Oct 05 11:58	14° £ 37′27	-4°28'39
inferior conj	5317 Oct 23 00:41	1°M45'21	-3°32'13	minimum elong	5318 Oct 05 18:12	14° ≏ 24'35	4°27'14
minimum elong	5317 Oct 23 06:37	1°M31'22		morning rise	5318 Oct 13 01:52	9° ≏ 53'10	
			-	<i>5</i>			

direct	5318 Oct 15 09:33	9° ₽ 32'38		morning rise	5319 Sep 25 05:13	22° m/30'43	
asc. node	5318 Oct 13 05:33 5318 Oct 21 06:42	11° ⊆ 51'35		direct	5319 Sep 27 15:46	22° m) 11'50	
morning max el	5318 Oct 22 19:20	13° Ω 12'04	18°06'33	morning max el	5319 Oct 06 01:11	26° m) 12'28	18°43'15
	5318 Nov 03 03:25	0°M		asc. node	5319 Oct 08 03:45	28° m) 27'09	
morning set	5318 Nov 07 13:36	8°M10'55			5319 Oct 09 09:47	0∘ ⊽	
Č				morning set	5319 Oct 22 08:56	22° ≏ 19'26	
superior conj	5318 Nov 17 06:43	26°M05'02	1°02'59	C	5319 Oct 26 07:19	0° M	
minimum elong	5318 Nov 17 10:38	26°M22'33	1°02'29				
	5318 Nov 19 11:44	0° ∡ ¹		superior conj	5319 Oct 31 00:12	9° M ₀01'25	1°25'38
max. Earth dist.	5318 Nov 24 22:31	9° ∡ 21'41	1.41645 AU	minimum elong	5319 Oct 31 03:25	9° ™ 16'36	1°25'20
desc. node	5318 Nov 26 12:51	12° ∡ ¹01'36		max. Earth dist.	5319 Nov 07 04:45	22° M $.08'25$	1.39574 AU
evening rise	5318 Nov 30 04:55	18° ₮ 01'24		evening rise	5319 Nov 11 05:07	29°M04'09	
	5318 Dec 07 20:25	0°ප			5319 Nov 11 18:21	0° ∡ ¹	
	5318 Dec 29 10:23	0° ≈		desc. node	5319 Nov 13 09:53	2° ∡ ¹44'56	
evening max el	5319 Jan 02 17:54	4° ≈ 46′06	22°48'06		5319 Dec 01 07:34	8°0	
retrograde	5319 Jan 12 18:30	10° ≈ 43′11		evening max el	5319 Dec 16 07:36	18° る 26'37	24°07'56
asc. node	5319 Jan 17 05:58	8° ≈ 59'51		retrograde	5319 Dec 27 10:48	24° る 59'09	
evening set	5319 Jan 17 12:47	8° ≈ 46′05		evening set	5320 Jan 01 17:53	22° る 46'45	
inferior conj	5319 Jan 22 21:42	2° ≈ 22'40	1°48'22	asc. node	5320 Jan 04 03:00	20° ろ 20'28	
minimum elong	5319 Jan 22 19:34	2° ≈ 30′02	1°47'39	min. Earth dist.	5320 Jan 06 11:28	17° る 19'35	0.67901 AU
min. Earth dist.	5319 Jan 22 15:07	2° ≈ 45'26	0.68132 AU	inferior conj	5320 Jan 07 05:04	16° පි 20'10	1°01'31
	5319 Jan 24 15:45	30°Rる		minimum elong	5320 Jan 07 03:40	16° る 24'53	1°00'59
morning rise	5319 Jan 28 02:16	26° ප 14'16		morning rise	5320 Jan 12 13:31	10° る 17'07	
direct	5319 Feb 01 14:03	24° る 24'16		direct	5320 Jan 16 11:39	8° る 49'40	
morning max el	5319 Feb 10 12:31	29° る 36'48	21°40'57	morning max el	5320 Jan 24 08:51	13° る 19'30	20°24'05
	5319 Feb 10 21:40	0° ≈			5320 Feb 06 07:51	0° ≈	
desc. node	5319 Feb 22 12:06	14° ≈ 30'57		desc. node	5320 Feb 09 09:07	4°≈27'36	
	5319 Mar 05 03:08	0°)(morning set	5320 Feb 21 16:37	23°≈06'45	
morning set	5319 Mar 14 16:18	14°) 48'21	1 41702 411	To all III	5320 Feb 26 02:31	0°) {	1 42525 444
max. Earth dist.	5319 Mar 20 23:41	25°) 03′28 0° °	1.41723 AU	max. Earth dist.	5320 Mar 02 06:33	8° ∺ 13′08	1.43525 AU
	5319 Mar 23 22:30	U- Y		aumorior coni	5220 Mar 09 11:46	18° ¥ 22'13	200000
superior coni	5319 Mar 28 14:10	7° Ƴ 59'59	2002117	superior conj minimum elong	5320 Mar 08 11:46 5320 Mar 08 10:53	18° € 18'31	
superior conj minimum elong	5319 Mar 28 17:53	8° Υ 16'14		minimum ciong	5320 Mar 15 09:07	10 γ (10.51	2 00 30
evening rise	5319 Mai 28 17:35 5319 Apr 08 11:06	27° Υ 35'21	2 03 00	evening rise	5320 Mar 13 09:07 5320 Mar 20 23:28	0 1 9° Υ 42'48	
evening rise	5319 Apr 09 18:38	0° 8		asc. node	5320 Apr 01 02:18	28° Y '33'36	
asc. node	5319 Apr 15 05:16	9° 8 47'11		ase. Hode	5320 Apr 02 01:09	0° と	
evening max el	5319 Apr 24 19:23	23° 8 31'05	18°10'56	evening max el	5320 Apr 07 07:46	6° 8 40'23	18°07'24
retrograde	5319 May 01 16:41	26° 8 59'38	10 10 50	retrograde	5320 Apr 13 18:59	10° 8 02'24	10 0/21
evening set	5319 May 04 04:52	26° 8 32'36		evening set	5320 Apr 16 13:38	9° 8 24'13	
inferior conj	5319 May 11 02:30	21° 8 44'08	2°39'04	inferior conj	5320 Apr 22 21:03	4° 8 16'04	3°16'38
minimum elong	5319 May 11 05:50	21° 8 36'36	2°38'16	minimum elong	5320 Apr 22 23:07	4° 8 10'42	3°16'21
min. Earth dist.	5319 May 14 10:58	18° 8 43'31	0.59981 AU	min. Earth dist.	5320 Apr 25 19:28	1° 8 14'57	0.62167 AU
morning rise	5319 May 18 04:14	15° 8 57'27			5320 Apr 27 02:58	30° ₹ Υ	
desc. node	5319 May 21 11:22	14° 8 26'47		morning rise	5320 Apr 29 06:58	28° Y 13'14	
direct	5319 May 24 15:59	13° 8 57'54		direct	5320 May 06 02:40	25° Y '44'32	
morning max el	5319 Jun 08 00:21	21° 8 51'03	27°37'10	desc. node	5320 May 07 08:23	25° Y '49'07	
	5319 Jun 15 03:39	Π $^{\circ}0$			5320 May 16 01:00	0° 8	
	5319 Jul 03 22:39	0 \circ \odot		morning max el	5320 May 20 05:38	3° 8 45'16	27°53'05
morning set	5319 Jul 09 20:29	11° 5 346'26			5320 Jun 08 17:47	Π $^{\circ}0$	
asc. node	5319 Jul 12 04:31	16° © 42'03		morning set	5320 Jun 22 22:11	26° Ⅲ 02'15	
max. Earth dist.	5319 Jul 16 04:44	25° © 25'04	1.31944 AU		5320 Jun 24 20:23	0 \circ	
				asc. node	5320 Jun 28 01:34	6° 5 548'48	
superior conj	5319 Jul 17 00:50	27° © 15'50	0°48'41	max. Earth dist.	5320 Jun 28 12:40	7° 5 548'31	1.32324 AU
minimum elong	5319 Jul 16 22:54	27° © 05'10	0°48'17				
	5319 Jul 18 06:35	0 \circ Ω		superior conj	5320 Jun 30 10:25	11° © 56'40	0°24'28
evening rise	5319 Jul 23 19:56	12° Ω 06′50		minimum elong	5320 Jun 30 09:18	11°950'36	0°24'13
1 1	5319 Aug 01 20:43	0° Mp		evening rise	5320 Jul 07 07:32	26°\$54'22	
desc. node	5319 Aug 17 10:39	22° m 54'12	25042151		5320 Jul 08 18:40	0° N	
evening max el	5319 Aug 20 13:09	26° Mp 06'47	25~45'51	avanir = 1	5320 Jul 26 03:52	0° M) 6° M) 45!16	24014151
ratra ar- 1-	5319 Aug 25 07:29	0° 亞		evening max el	5320 Aug 01 02:55	6° Mp 45'16	24 14 31
retrograde	5319 Sep 03 12:01	3° £ 12'40 1° £ 43'46		desc. node	5320 Aug 14 22:24	8°Mp43'31	
evening set	5319 Sep 09 15:23 5319 Sep 12 17:27	1° ± 243′46 30°R m)		retrograde evening set	5320 Aug 14 22:24 5320 Aug 19 17:54	13° Mp 42'34 12° Mp 51'06	
min. Earth dist.	5319 Sep 12 17:27 5319 Sep 14 01:15	אָראָרט אָנו 29° אָר 100 (29	0.58302 AU	min. Earth dist.	5320 Aug 19 17:54 5320 Aug 25 13:43	-	0.56467 AU
inferior conj	5319 Sep 14 01:13 5319 Sep 17 05:19	29 my 51'38		inferior conj	5320 Aug 28 02:36	8° Mg 21'10	
microi conj				THICH TO LOUIS			
minimum elong	5319 Sep 17 09:09	26° m/ 44'46		minimum elong	5320 Aug 28 00:44	8° Mp 24'06	

morning rise	5320 Sep 05 10:03	4° Mp 20′47		retrograde	5321 Jul 26 19:54	23° Ω 38'54	
direct	5320 Sep 08 02:47	4° Mp 01′33		evening set	5321 Jul 30 02:55	23° Ω 15′07	
morning max el	5320 Sep 17 20:54	8° Mp 35'00	19°41'36	min. Earth dist.	5321 Aug 06 23:50	19° Ω 47'53	0.55199 AU
asc. node	5320 Sep 24 00:47	16°№03'54		inferior conj	5321 Aug 08 05:25	19° Ω 05'46	-4°37'38
	5320 Oct 02 01:18	0∘ ত		minimum elong	5321 Aug 07 21:38	19° Ω 16'52	4°36'05
morning set	5320 Oct 05 11:51	6° £ 49'16		morning rise	5321 Aug 16 18:20	15° Ω 15'47	
morning sec	3320 000 03 11.31	0 = 1,7 10		direct	5321 Aug 19 20:14	14° Ω 53'59	
aumorior aoni	5220 Oct 12 00:06	220 0 42101	1°38'37		=	20°Ω11'06	21901125
superior conj	5320 Oct 13 09:06	22° £ 43'01		morning max el	5321 Aug 31 04:21		21 01 23
minimum elong	5320 Oct 13 10:52	22° £ 51'41	1°38'32		5321 Sep 08 03:33	0° m	
	5320 Oct 17 02:58	0° M		asc. node	5321 Sep 10 21:50	4° ™ 27'15	
max. Earth dist.	5320 Oct 19 09:31	4° ጤ 17'16	1.37479 AU	morning set	5321 Sep 19 19:40	21°Mp32'25	
evening rise	5320 Oct 23 03:43	11° M 08'17			5321 Sep 23 20:58	0∘ ত	
desc. node	5320 Oct 30 06:56	23°M20'48					
	5320 Nov 03 10:34	0° ∡ ¹		superior conj	5321 Sep 27 04:59	6° £ 56'05	1°43'19
	5320 Nov 25 17:12	8°0		minimum elong	5321 Sep 27 05:12	6° £ 57'13	1°43'19
evening max el	5320 Nov 27 20:14	2° る 10'32	25°23'07	max. Earth dist.	5321 Oct 01 18:41	16° £ 10'01	1.35584 AU
retrograde	5320 Dec 09 22:45	9° る 08'59	20 23 07	evening rise	5321 Oct 05 21:13	24° £ 04'18	1.555501110
	5320 Dec 07 22:45 5320 Dec 15 19:15	6° 石 43'05		evening rise	5321 Oct 09 02:40	0°M	
evening set			0.67212.411				
min. Earth dist.	5320 Dec 20 05:23	1° ろ 50'10	0.67312 AU	desc. node	5321 Oct 17 03:58	13° M 43'44	
inferior conj	5320 Dec 21 09:54	0° ප 18'04	0°08'24		5321 Oct 28 01:09	0°⊀	
minimum elong	5320 Dec 21 09:41	0°る18'46	0°08'19	evening max el	5321 Nov 10 09:04	15° ₹ 53'32	26°26'17
transit middle	5320 Dec 21 09:41	0°る18'46	0°08'19	retrograde	5321 Nov 23 05:28	23° ∡ 06′20	
transit begin	5320 Dec 21 07:17	0° る 26'31		evening set	5321 Nov 29 15:01	20° х 30′34	
transit end	5320 Dec 21 12:05	0° ರ 11'01		min. Earth dist.	5321 Dec 03 18:25	16° ∡ 12'50	0.66370 AU
asc. node	5320 Dec 21 00:01	0° る 50'06		inferior conj	5321 Dec 05 10:15	14° √ 12'18	-0°50'04
	5320 Dec 21 15:30	30°R. ✓		minimum elong	5321 Dec 05 11:37	14° ≯ 08'08	0°49'29
morning rise	5320 Dec 27 10:36 5320 Dec 27 00:26	24° 🖈 22'23		asc. node	5321 Dec 03 11:37 5321 Dec 07 21:02	11° × 22'05	0 1,72,7
•							
direct	5320 Dec 30 10:26	23°×15'06	10000150	morning rise	5321 Dec 11 08:53	8°×726'38	
morning max el	5321 Jan 06 13:05	27° ∡ 13′04	19°20'59	direct	5321 Dec 14 08:44	7° ∡ ³36′05	
	5321 Jan 09 01:53	0°る		morning max el	5321 Dec 21 00:03	11° ∡ 13'17	18°33'43
greatest brilliancy	5321 Jan 19 19:39	14° る 55'44	-0.7m		5322 Jan 03 12:20	0°₹	
desc. node	5321 Jan 26 06:09	24° る 43'54		morning set	5322 Jan 10 12:04	11° る 03'50	
	5321 Jan 29 16:10	0° ≈		desc. node	5322 Jan 13 03:11	15° ⋜ 14'06	
morning set	5321 Jan 30 15:26	1° ≈ 30′00			5322 Jan 22 11:59	0° ≈	
max. Earth dist.	5321 Feb 12 20:02	22°≈05'29	1.44774 AU				
				superior conj	5322 Jan 26 12:54	6° ≈ 20'01	-1°24'35
superior conj	5321 Feb 16 08:25	27° ≈ 40'01	-1°56'31	minimum elong	5322 Jan 26 03:37	5°≈43'40	
				Č			
minimum elong	5321 Feb 16 01:13	27°≈11'22	1-36/03	max. Earth dist.	5322 Jan 26 14:19	6°≈25'35	1.45326 AU
	5321 Feb 17 19:30	0° ∀			5322 Feb 10 13:21	0° ∀	
evening rise	5321 Mar 02 14:56	20°) € 54'59		evening rise	5322 Feb. 11 07:00	1° ₩ 10'44	
	5221 Man 00 01.50			-	5322 Feb 11 07:09		
asc. node	5321 Mar 08 01:58	0 ° \mathbf{Y}		greatest brilliancy	5322 Feb 20 03:02	15° ₩ 11'51	-0.8m
	5321 Mar 18 23:18	0° Υ 16° Υ 43'41		-			-0.8m
evening max el			18°22'36	-	5322 Feb 20 03:02	15° ₩ 11'51	-0.8m 18°55'38
evening max el retrograde	5321 Mar 18 23:18	16° Ƴ 43'41	18°22'36	greatest brilliancy	5322 Feb 20 03:02 5322 Mar 02 04:54	15° ℋ 11'51 0° Ƴ	
retrograde	5321 Mar 18 23:18 5321 Mar 21 20:27	16° Υ 43'41 20° Υ 03'08 23° Υ 32'12	18°22'36	greatest brilliancy evening max el asc. node	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55	15°¥11'51 0° ° 3° ° 33'40	
retrograde evening set	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38		evening max el asc. node retrograde	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43	15°¥11'51 0°°Y 3°°Y33'40 4°°Y06'45 7°°Y21'49	
retrograde evening set inferior conj	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58	3°31'32	evening max el asc. node retrograde evening set	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31	15°¥11'51 0°Y 3°Y33'40 4°Y06'45 7°Y21'49 6°Y17'57	18°55'38
retrograde evening set inferior conj minimum elong	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49	16°Υ43'41 20°Υ03'08 23°Υ32'12 22°Υ41'38 17°Υ14'58 17°Υ13'40	3°31'32 3°31'30	evening max el asc. node retrograde evening set inferior conj	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43	15°¥11'51 0°° 3°°¥33'40 4°°¥06'45 7°°¥21'49 6°°¥17'57 0°°¥34'22	18°55'38 3°29'11
retrograde evening set inferior conj minimum elong min. Earth dist.	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09	16°Υ43'41 20°Υ03'08 23°Υ32'12 22°Υ41'38 17°Υ14'58 17°Υ13'40 14°Υ34'38	3°31'32	evening max el asc. node retrograde evening set	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47	15°¥11'51 0°° 3°°¥33'40 4°°¥06'45 7°°¥21'49 6°°¥17'57 0°°¥34'22 0°°¥37'18	18°55'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06	3°31'32 3°31'30	evening max el asc. node retrograde evening set inferior conj minimum elong	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39	15°¥11'51 0°° 3°° Y33'40 4°° Y06'45 7°° Y21'49 6°° Y17'57 0°° Y34'22 0°° Y37'18 30° R¥	18°55'38 3°29'11 3°29'06
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03	3°31'32 3°31'30	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51	15°\(\)\11'51 0°\(\)\ 3°\(\)\33'\40 4°\(\)\06'\45 7°\(\)\21'\49 6°\(\)\17'\57 0°\(\)\34'\22 0°\(\)\37'\18 30°\(\)\\\28'\\\\\\\28'\\\\\\\\\\\\\\\\\\\\\\	18°55'38 3°29'11
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26	3°31'32 3°31'30 0.64150 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39	15°\(\)\\ 11'51 0°\(\)\\\ 3°\(\)\\ 33'\\\\ 4°\(\)\\ 6°\(\)\\\\ 15'\\\\\ 7°\(\)\\\ 21'\\\\\\ 6°\(\)\\\\ 17'57 0°\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18°55'38 3°29'11 3°29'06
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59	3°31'32 3°31'30 0.64150 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51	15°\(\)\11'51 0°\(\)\ 3°\(\)\33'\40 4°\(\)\06'\45 7°\(\)\21'\49 6°\(\)\17'\57 0°\(\)\34'\22 0°\(\)\37'\18 30°\(\)\\\28'\\\\\\\28'\\\\\\\\\\\\\\\\\\\\\\	18°55'38 3°29'11 3°29'06
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26	3°31'32 3°31'30 0.64150 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38	15°\(\)\\ 11'51 0°\(\)\\\ 3°\(\)\\ 33'\\\\ 4°\(\)\\ 6°\(\)\\\\ 15'\\\\\ 7°\(\)\\\ 21'\\\\\\ 6°\(\)\\\\ 17'57 0°\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18°55'38 3°29'11 3°29'06
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59	3°31'32 3°31'30 0.64150 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\)\\ 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39	18°55'38 3°29'11 3°29'06 0.65771 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°8	3°31'32 3°31'30 0.64150 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\)\(\pm\) 28°\(\pm\)28'\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05	18°55'38 3°29'11 3°29'06 0.65771 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°II 9°I51'28	3°31'32 3°31'30 0.64150 AU 27°32'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\)\(\pm\) 28°\(\pm\)28'\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\)	18°55'38 3°29'11 3°29'06 0.65771 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B	3°31'32 3°31'30 0.64150 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 22:47 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 May 07 18:46	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\) 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\)	18°55'38 3°29'11 3°29'06 0.65771 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31	3°31'32 3°31'30 0.64150 AU 27°32'07	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 May 07 18:46 5322 May 20 22:56	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\) 28°\(\pm\)28'\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)05'07	18°55'38 3°29'11 3°29'06 0.65771 AU
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	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Mar 07 18:46 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38	15°\(\)\\ 11'51\\ 0°\(\Varphi\) 3°\(\Varphi\)\ 3'\(\Varphi\)\ 4°\(\Varphi\)\ 6°\(\Varphi\)\ 17'57\\ 0°\(\Varphi\)\ 30°\(\Ranghi\)\ 28°\(\Xarphi\)\ 28°\(\Xarphi\)\ 24°\(\Xarphi\)\ 21°\(\Xarphi\)\ 30'39\\ 25°\(\Xarphi\)\ 38'05\\ 23°\(\Xarphi\)\ 5'07\\ 0°\(\Varphi\)\	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04
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	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:07 5321 Jun 14 16:07	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 9°I51'28 19°I46'31 26°I21'16 26°I22'00	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 May 07 18:46 5322 May 20 22:56	15°\(\)\\ 11'51\\ 0°\(\Varphi\) 3°\(\Varphi\)\ 3'\(\Varphi\)\ 4°\(\Varphi\)\ 6°\(\Varphi\)\ 17'57\\ 0°\(\Varphi\)\ 30°\(\Ranghi\)\ 28°\(\Xarphi\)\ 28°\(\Xarphi\)\ 24°\(\Xarphi\)\ 21°\(\Xarphi\)\ 30'39\\ 25°\(\Xarphi\)\ 38'05\\ 23°\(\Xarphi\)\ 5'07\\ 0°\(\Varphi\)\	18°55'38 3°29'11 3°29'06 0.65771 AU
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 behind sun begin	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:07 5321 Jun 14 16:15 5321 Jun 14 10:54	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31 26°I21'16 26°I22'00 25°I53'30	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	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.	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 22:47 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46	15°\(\)\(11\)51 0°\(\partial^{\circ}\) 3°\(\partial^{\circ}\)3'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)5'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)3'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)4'\(\dagger^{\circ}\)5'\(\dagge	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04
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 behind sun begin behind sun end	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 21:36	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31 26°I22'00 25°I53'30 26°I50'33	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	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	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46	15°\(\)\(\)\(1151\) 0°\(\V\) 3°\(\V\)\(33\)\(40\) 4°\(\V\)\(06\)\(45\) 7°\(\V\)\(21\)\(49\) 6°\(\V\)\(17\)\(57\) 0°\(\V\)\(34\)\(22\) 0°\(\V\)\(37\)\(18\) 30°\(\K\)\(28\)\(\K\)\(28\)\(43\) 24°\(\K\)\(20\)\(10\) 21°\(\K\)\(30\)\(39\) 25°\(\K\)\(38\)\(55\) 29°\(\K\)\(13\)\(17\) 0°\(\V\) 0°\(\K\) 23°\(\K\)\(50\)\(50\)\(70\) 0°\(\K\) 1°\(\K\)\(14\)\(57\) 10°\(\K\)\(23\)\(35\)	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08
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 behind sun begin	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 21:36 5321 Jun 14 22:35	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31 26°I21'16 26°I22'00 25°I53'30 26°I55'53	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	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.	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46 5322 May 29 15:45 5322 May 29 15:45 5322 May 29 17:30	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)3'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\)\ 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)305'07 0°\(\pm\) 1°\(\pm\)11'57 10°\(\pm\)23'35 10°\(\pm\)32'36	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08
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 behind sun begin behind sun end	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 21:36	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31 26°I22'00 25°I53'30 26°I50'33	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	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	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\) 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)50'07 0°\(\pm\) 1°\(\pm\)14'57 10°\(\pm\)23'35 10°\(\pm\)32'36 16°\(\pm\)59'42	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08
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 behind sun begin behind sun end	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 21:36 5321 Jun 14 22:35	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31 26°I21'16 26°I22'00 25°I53'30 26°I55'53	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	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	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46 5322 May 29 15:45 5322 May 29 15:45 5322 May 29 17:30	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)3'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\)\ 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)305'07 0°\(\pm\) 1°\(\pm\)11'57 10°\(\pm\)23'35 10°\(\pm\)32'36	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08
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 behind sun begin behind sun end asc. node	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:07 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 21:36 5321 Jun 14 22:35 5321 Jun 16 08:56	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°II 9°I51'28 19°I46'31 26°I21'16 26°I22'00 25°I53'30 26°I55'53 0°©	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49	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	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 23:43 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46 5322 May 29 15:45 5322 May 29 17:30 5322 Jun 01 19:37	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\) 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)50'07 0°\(\pm\) 1°\(\pm\)14'57 10°\(\pm\)23'35 10°\(\pm\)32'36 16°\(\pm\)59'42	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08
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 behind sun begin behind sun end asc. node	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 06 05:49 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 11 13:19 5321 Jun 14 16:07 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 22:35 5321 Jun 16 08:56 5321 Jun 21 19:02	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°II 9°I51'28 19°I46'31 26°I21'16 26°I22'00 25°I53'30 26°I55'53 0°S 11°S37'17	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49 0°02'48	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	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 22:47 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46 5322 May 29 15:45 5322 May 29 17:30 5322 Jun 01 19:37 5322 Jun 06 04:33	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\) 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)30'507 0°\(\pm\) 1°\(\pm\)14'57 10°\(\pm\)23'35 10°\(\pm\)32'36 16°\(\pm\)59'42 26°\(\pm\)10'01	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08
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 behind sun begin behind sun end asc. node evening rise	5321 Mar 18 23:18 5321 Mar 21 20:27 5321 Mar 28 07:16 5321 Mar 31 08:15 5321 Apr 06 05:22 5321 Apr 08 13:09 5321 Apr 12 02:30 5321 Apr 18 21:47 5321 Apr 24 05:24 5321 May 02 14:29 5321 May 13 22:17 5321 Jun 01 12:02 5321 Jun 06 16:04 5321 Jun 14 16:07 5321 Jun 14 16:15 5321 Jun 14 10:54 5321 Jun 14 21:36 5321 Jun 14 22:35 5321 Jun 16 08:56 5321 Jun 21 19:02 5321 Jun 21 19:02 5321 Jun 10 04:40	16°Y43'41 20°Y03'08 23°Y32'12 22°Y41'38 17°Y14'58 17°Y13'40 14°Y34'38 11°Y04'06 8°Y18'03 9°Y43'26 16°Y15'59 0°B 0°I 9°I51'28 19°I46'31 26°I21'16 26°I22'00 25°I53'30 26°I55'53 0°S 11°S37'17 0°R	3°31'32 3°31'30 0.64150 AU 27°32'07 1.33161 AU -0°02'49 0°02'48	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	5322 Feb 20 03:02 5322 Mar 02 04:54 5322 Mar 05 06:55 5322 Mar 05 20:19 5322 Mar 12 01:43 5322 Mar 15 09:31 5322 Mar 20 22:47 5322 Mar 21 10:39 5322 Mar 22 15:51 5322 Mar 26 11:38 5322 Apr 01 23:44 5322 Apr 11 02:24 5322 Apr 15 00:28 5322 Apr 15 18:40 5322 May 07 18:46 5322 May 20 22:56 5322 May 20 22:56 5322 May 24 12:38 5322 May 25 03:46 5322 May 29 15:45 5322 May 29 17:30 5322 Jun 01 19:37 5322 Jun 06 04:33 5322 Jun 08 01:11	15°\(\pm\)11'51 0°\(\pm\) 3°\(\pm\)33'40 4°\(\pm\)06'45 7°\(\pm\)21'49 6°\(\pm\)17'57 0°\(\pm\)34'22 0°\(\pm\)37'18 30°\(\pm\) 28°\(\pm\)28'43 24°\(\pm\)20'10 21°\(\pm\)30'39 25°\(\pm\)38'05 29°\(\pm\)13'17 0°\(\pm\) 0°\(\pm\) 23°\(\pm\)505'07 0°\(\pm\) 1°\(\pm\)114'57 10°\(\pm\)23'35 10°\(\pm\)32'36 16°\(\pm\)59'42 26°\(\pm\)10'01 0°\(\pm\)	18°55'38 3°29'11 3°29'06 0.65771 AU 26°40'04 1.34476 AU -0°32'08 0°31'47

ratragrada	5322 Jul 07 08:38	3° Ω 31'42			5323 May 31 23:06	0°9	
retrograde		3°Ω30'30			•		10051104
desc. node	5322 Jul 08 01:40			evening max el	5323 Jun 07 21:51	8°956'32	19*31*04
evening set	5322 Jul 09 14:23	3° £ 19′58		retrograde	5323 Jun 18 00:39	13°953'35	
	5322 Jul 17 19:35	30° ₹ 5		evening set	5323 Jun 19 22:30	13° © 43'45	
inferior conj	5322 Jul 18 22:33	29° © 22'13		desc. node	5323 Jun 24 22:41	11° © 57'17	
minimum elong	5322 Jul 18 14:22		3°05'14	inferior conj	5323 Jun 28 20:35	9° © 42'21	
min. Earth dist.	5322 Jul 19 10:08	29° © 05'56	0.54785 AU	minimum elong	5323 Jun 28 17:20	9° © 47'20	1°09'07
morning rise	5322 Jul 27 14:41	25° © 24'56		min. Earth dist.	5323 Jun 30 22:30	8° © 26'03	0.55332 AU
direct	5322 Jul 31 05:16	24° © 56'57		morning rise	5323 Jul 07 10:11	5° © 17'55	
	5322 Aug 11 20:32	0 $^{\circ}\Omega$		direct	5323 Jul 11 18:49	4°536'10	
morning max el	5322 Aug 13 00:38	1° Ω 02'42	22°38'37	morning max el	5323 Jul 25 14:50	11° © 26'58	24°22'56
asc. node	5322 Aug 28 18:53	23° Ω 25'52			5323 Aug 08 16:02	$0^{\circ}\Omega$	
	5322 Sep 01 04:00	0° m)		asc. node	5323 Aug 15 15:56	12° Ω 50'46	
morning set	5322 Sep 04 06:20	6° Mp 22'57		morning set	5323 Aug 19 18:05	21° Ω 15'49	
C	•			Č	5323 Aug 23 19:19	0° m y	
superior conj	5322 Sep 11 08:24	21° m/30'34	1°40'59		Č	•	
minimum elong	5322 Sep 11 07:21	21° m) 25'02	1°40'56	superior conj	5323 Aug 26 16:42	6° ₪ 18'25	1°32'39
max. Earth dist.	5322 Sep 14 12:10	28° m 09'03	1.34033 AU	minimum elong	5323 Aug 26 14:49	6° Mp 08'08	1°32'27
max. Lartii dist.	5322 Sep 14 12:10 5322 Sep 15 09:40	0° ∵	1.54055 AC	max. Earth dist.	5323 Aug 28 14:06	10° Mp 24'14	1.32894 AU
ovanina rias	5322 Sep 13 09.40 5322 Sep 19 05:25	0 == 7° £ 41'00		evening rise	=		1.32694 AU
evening rise	•			evening rise	5323 Sep 03 00:29	21° m/48'11	
	5322 Oct 01 16:01	0°M			5323 Sep 07 04:13	0° ⊽	
desc. node	5322 Oct 04 00:58	3°M47'36		desc. node	5323 Sep 20 21:59	23° ≏ 24'21	
evening max el	5322 Oct 23 21:50	29°M26'30	27°09'56		5323 Sep 25 12:53	0°M₊	
	5322 Oct 24 12:04	0° ⊼		evening max el	5323 Oct 06 08:57	12°M37'19	27°27'18
retrograde	5322 Nov 06 06:17	6° ≯ 44'12		retrograde	5323 Oct 20 00:56	19° M 54'14	
evening set	5322 Nov 13 02:58	4° ҂ ¹04'23		evening set	5323 Oct 27 04:22	17° M 19'17	
min. Earth dist.	5322 Nov 17 00:11	0° ∡ 721'54	0.65080 AU	min. Earth dist.	5323 Oct 30 20:41	14° M 09'14	0.63450 AU
	5322 Nov 17 08:12	30°RM₊		inferior conj	5323 Nov 02 12:19	11°M29'48	-2°56'18
inferior conj	5322 Nov 19 03:55	27°M58'08	-1°52'27	minimum elong	5323 Nov 02 17:26	11°M16'56	2°54'27
minimum elong	5322 Nov 19 07:10	27° M 49'04	1°51'07	morning rise	5323 Nov 09 08:05	6°M₁3'38	
asc. node	5322 Nov 24 18:05	22°M49'48		direct	5323 Nov 11 18:18	5°M45'19	
morning rise	5322 Nov 25 12:27	22°M25'32		asc. node	5323 Nov 11 15:09	5°M45'24	
direct	5322 Nov 28 04:16	21°M47'56		morning max el	5323 Nov 11 13:07 5323 Nov 18 08:27	9°M10'17	17940!55
			18°03'09	morning max ci		9 IIC1017 0° √	17 49 33
morning max el	5322 Dec 04 15:28	25°M14'31	18-03-09	. ,	5323 Dec 02 05:38		
	5322 Dec 08 15:12	0°⊀ ⁷		morning set	5323 Dec 04 18:36	4° ≯ 24'37	
morning set	5322 Dec 22 14:19	22° ∡ 06'22					
	5322 Dec 27 09:20	0° ろ		superior conj	5323 Dec 17 00:15	25° ₹ 12'22	0°06'11
desc. node	5322 Dec 31 00:12	5° る 53'27		minimum elong	5323 Dec 17 00:54	25° ≯ 15'04	0°06'06
				behind sun begin	5323 Dec 16 15:58	24° ₹ 38'15	
superior conj	5323 Jan 05 20:13	15° る 14'29	-0°39'52	behind sun end	5323 Dec 17 09:49	25° ₹ 51'49	
minimum elong	5323 Jan 05 15:20	14° පි 55'02	0°39'11	desc. node	5323 Dec 17 21:14	26° 渘 ³38'42	
max. Earth dist.	5323 Jan 09 10:10	20° ප 54'11	1.45133 AU		5323 Dec 19 22:34	0°₹	
	5323 Jan 15 05:40	0° ≈		max. Earth dist.	5323 Dec 23 04:06	5° ප 12'10	1.44224 AU
evening rise	5323 Jan 22 02:57	10° ≈ 40'43		evening rise	5324 Jan 01 13:15	19° ප 54'14	
Č	5323 Feb 03 18:13	0° ∀		Č	5324 Jan 08 04:21	0° ≈	
greatest brilliancy	5323 Feb 04 16:16	1°) 22′15	-0.7m		5324 Jan 29 22:18	0°) €	
evening max el	5323 Feb 16 13:07	17°) 06'39	19°45'08	evening max el	5324 Jan 30 13:56	0°) (40′52	20°48'40
asc. node	5323 Feb 20 17:22	20° ₩ 28'42	17 43 00	retrograde	5324 Feb 07 21:40	5°) (35'37	20 40 40
	5323 Feb 20 17:22 5323 Feb 23 23:20	21° H 24'21		asc. node	5324 Feb 07 14:24	5°) 35'07	
retrograde		20°\(\frac{1}{2421}\)				4°) €03'04	
evening set	5323 Feb 27 14:52		2012122	evening set	5324 Feb 11 22:18		
inferior conj	5323 Mar 05 00:57	14° ₩ 07'54			5324 Feb 15 16:44	30°R≈	20.4511.0
minimum elong	5323 Mar 04 23:04	14°) 14'10	3°13'15	inferior conj	5324 Feb 17 06:32	27°≈52'11	2°47'19
min. Earth dist.	5323 Mar 06 02:17	12°) 43′42	0.66965 AU	minimum elong	5324 Feb 17 04:11	28° ≈ 00'16	2°46'45
morning rise	5323 Mar 10 07:02	7° ∺ 53'05		min. Earth dist.	5324 Feb 17 18:34	27°≈10'48	0.67735 AU
direct	5323 Mar 16 07:32	5° ∺ 11'53		morning rise	5324 Feb 22 09:53	21° ≈ 38′26	
morning max el	5323 Mar 28 09:51	12°) 25′24	25°25'39	direct	5324 Feb 27 20:28	19° ≈ 13'53	
desc. node	5323 Mar 28 23:26	13°) €00'11		morning max el	5324 Mar 09 18:38	25° ≈ 45′04	23°58'49
	5323 Apr 11 13:12	$0^{\circ}\Upsilon$			5324 Mar 13 15:48	0°) €	
	5323 Apr 30 12:09	0°8		desc. node	5324 Mar 14 20:28	1°) 25′11	
morning set	5323 May 03 14:24	5° 8 30'35			5324 Apr 04 02:10	0° Υ	
max. Earth dist.	5323 May 07 07:16		1.36233 AU	morning set	5324 Apr 14 08:54	16° Υ 53'05	
Zurur dist.	5525 May 07 07.10	02000	1.50255 110	max. Earth dist.	5324 Apr 18 03:26	23° Υ 29'13	1.38320 AU
superior con:	5323 May 12 06.24	23° 8 55'34	1902'04	max. Earm uist.	-	0° 8	1.30320 AU
superior conj	5323 May 13 06:34				5324 Apr 21 17:44	v O	
minimum elong	5323 May 13 10:02	24° 8 12'50	1-01-29		5224 4 25 22 22	COL 1010-	1020124
_	5323 May 16 07:02	0°II		superior conj	5324 Apr 25 09:03	6° 8 48'27	
asc. node	5323 May 19 16:39	6° Ⅱ 55'49		minimum elong	5324 Apr 25 13:52	7° 8 11'20	1°29'47
evening rise	5323 May 21 09:54	10° Ⅱ 25'39		evening rise	5324 May 04 08:28	24° 8 16'56	

asc. node	5324 May 05 13:41	26° 8 39'55		asc. node	5325 Apr 22 10:44	16° 8 06'58	
asc. Houe	5324 May 07 07:01	20 O 3933		asc. node	5325 Apr 22 10:44 5325 May 01 00:30	0°II	
evening max el	5324 May 20 18:44	20°II53'26	18°56'14	evening max el	5325 May 04 00:30	3° II 26'40	18°21'49
retrograde	5324 May 29 07:10	25° ∏ 04'02		retrograde	5325 May 11 08:33	7° I 05'30	
evening set	5324 May 31 08:25	24° ∏ 50′27		evening set	5325 May 13 16:48	6° Ⅱ 44'08	
inferior conj	5324 Jun 08 11:46	20° Ⅱ 34'07	0°40'48	inferior conj	5325 May 21 00:30	2° Ⅱ 07'57	2°04'48
minimum elong	5324 Jun 08 13:21	20° Ⅲ 31'19	0°40'13	minimum elong	5325 May 21 03:57	2° Ⅱ 00'49	2°03'48
desc. node	5324 Jun 10 19:43	18° Ⅱ 54'59		C	5325 May 23 14:10	30° ₹ 8	
min. Earth dist.	5324 Jun 11 14:22	18° Ⅲ 22'54	0.56739 AU	min. Earth dist.	5325 May 24 10:59	29° 8 18'26	0.58722 AU
morning rise	5324 Jun 16 14:56	15° Ⅲ 33'11		morning rise	5325 May 28 11:59	26° 8 35'14	
direct	5324 Jun 21 21:56	14° Ⅲ 26′17		desc. node	5325 May 28 16:44	26° 8 28'58	
morning max el	5324 Jul 06 05:23	21° Ⅲ 51′08	25°58'49	direct	5325 Jun 03 15:27	24° 8 54'55	
	5324 Jul 13 09:11	0 \circ \odot			5325 Jun 15 01:44	Π $^{\circ}$ 0	
	5324 Jul 31 06:49	$\mathfrak{O}^{\circ}\mathfrak{O}$		morning max el	5325 Jun 18 00:48	2° Ⅱ 40'42	27°10'50
asc. node	5324 Aug 01 12:58	2° Ω 34'25			5325 Jul 07 19:22	0 \circ \odot	
morning set	5324 Aug 03 05:15	6° Ω 05′23		morning set	5325 Jul 18 14:14	20°5946'46	
				asc. node	5325 Jul 19 10:00	22° © 31'06	
superior conj	5324 Aug 10 03:43	21° Ω 12′09	1°19'06		5325 Jul 22 21:10	$0 {\circ} \Omega$	
minimum elong	5324 Aug 10 01:26	20° Ω 59'36	1°18'46				
max. Earth dist.	5324 Aug 10 22:13	22° Ω 54'02	1.32188 AU	superior conj	5325 Jul 25 15:34	6° Ω 05'48	1°00'59
	5324 Aug 14 04:20	O° m y		minimum elong	5325 Jul 25 13:22	5° Ω 53'39	1°00'35
evening rise	5324 Aug 17 03:15	6° Mp 16′17		max. Earth dist.	5325 Jul 25 09:18	5° Ω 31'07	1.31913 AU
	5324 Aug 29 17:25	0∘ ⊽		evening rise	5325 Aug 01 11:09	20° Ω 57'49	
desc. node	5324 Sep 06 19:01	12° ≏ 22'09			5325 Aug 05 20:48	O° m	
evening max el	5324 Sep 17 16:08		27°13'05		5325 Aug 24 07:56	0∘ ত	
	5324 Sep 23 19:38	0°M₊		desc. node	5325 Aug 24 16:02	0° £ 25′13	
retrograde	5324 Oct 01 12:40	2°M25'41		evening max el	5325 Aug 30 16:59	7° ≏ 02'12	26°25'18
evening set	5324 Oct 08 15:24	0° ™ 07'23		retrograde	5325 Sep 13 15:51	14° ≏ 10'31	
	5324 Oct 08 19:59	30° ŖΩ		evening set	5325 Sep 20 07:21	12° ≏ 21'16	
min. Earth dist.	5324 Oct 12 06:42	27° ≏ 21'51	0.61537 AU	min. Earth dist.	5325 Sep 24 06:30	9° ≏ 46'16	0.59476 AU
inferior conj	5324 Oct 15 08:17	24° Ω 38'34		inferior conj	5325 Sep 27 12:19	7° ≙ 15'33	
minimum elong	5324 Oct 15 14:35	24° £ 24'31	3°55'40	minimum elong	5325 Sep 27 17:57	7° ≙ 04'35	4°47'26
morning rise	5324 Oct 22 15:44	19° Ω 41'57		morning rise	5325 Oct 05 06:43	2° £ 40'57	
direct	5324 Oct 24 23:13	19° Ω 19'32		direct	5325 Oct 07 15:01	2° £ 21'30	
asc. node	5324 Oct 28 12:12	20° Ω 14'11		asc. node	5325 Oct 15 09:15	6° ≏ 07'23	
morning max el	5324 Oct 31 23:45	22° Ω 51'30	17°54'56	morning max el	5325 Oct 15 09:58	6° Ω 09'07	18°19'32
	5324 Nov 06 14:01	0°M 15°M 25'20		. ,	5325 Oct 30 12:58	0°M	
morning set	5324 Nov 16 18:18	17°M37'39		morning set	5325 Oct 31 07:44	1°M29'15	
	5324 Nov 23 14:35	0° ∡			5225 Nam 00 12:47	100 m 40124	1912150
aumorior comi	5224 Nov. 27, 06:20	69.706140	0°45'08	superior conj	5325 Nov 09 12:47	18°M49'34 19°M06'52	
superior conj	5324 Nov 27 06:39	6° ₹ 26'49 6° ₹ 42'08	0°44'39	minimum elong	5325 Nov 09 16:33	19°11L0632 0° √ 1	1-13/24
minimum elong desc. node	5324 Nov 27 10:11 5324 Dec 03 18:17	17° × 25'50	0 44 39	max. Earth dist.	5325 Nov 15 19:19 5325 Nov 17 02:05	0 x . 2° x 12'24	1.40785 AU
max. Earth dist.	5324 Dec 03 18:17 5324 Dec 04 17:35	17 x 23 30 19° x 01'52	1.42712 AU	desc. node	5325 Nov 17 02:03 5325 Nov 20 15:19	2 x 12 24 8° x 11′24	1.40763 AU
evening rise	5324 Dec 04 17:33 5324 Dec 11 05:42	29° х 29'22	1.42/12 AO	evening rise	5325 Nov 20 15:19 5325 Nov 21 16:48	9° × 756'29	
evening rise	5324 Dec 11 03:42 5324 Dec 11 13:29	0°පි		evening rise	5325 Nov 21 10:46 5325 Dec 04 13:45	% ਤੋਂ 0° ਰ	
	5324 Dec 31 19:51	0° ≈		evening max el	5325 Dec 04 15:45 5325 Dec 26 00:49	27° る 55'24	23°22'16
evening max el	5325 Jan 12 09:25	14°≈16'35	22°02'44	evening max er	5325 Dec 28 05:51	0°≈	23 22 10
retrograde	5325 Jan 21 18:46	19° ≈ 51'30		retrograde	5326 Jan 05 13:03	4°≈08'17	
asc. node	5325 Jan 24 11:26	19° ≈ 13'04		evening set	5326 Jan 10 12:34	2°≈04'50	
evening set	5325 Jan 26 06:04	18° ≈ 03'39		asc. node	5326 Jan 11 08:29	1°≈19'33	
inferior conj	5325 Jan 31 14:17		2°12'12		5326 Jan 12 14:16	30°Rる	
minimum elong	5325 Jan 31 11:57	11° ≈ 51'52		inferior conj	5326 Jan 15 22:18		1°29'23
min. Earth dist.	5325 Jan 31 14:18	11° ≈ 43'43	0.68097 AU	minimum elong	5326 Jan 15 20:26	25° ⋜ 46'06	1°28'41
morning rise	5325 Feb 05 17:40	5° ≈ 32'43		min. Earth dist.	5326 Jan 15 11:06	26° ප 18'10	0.68079 AU
direct	5325 Feb 10 13:43	3° ≈ 29'25		morning rise	5326 Jan 21 04:13	19° る 33'08	
morning max el	5325 Feb 20 05:08	9° ≈ 10'45	22°29'41	direct	5326 Jan 25 10:08	17° る 52'39	
desc. node	5325 Mar 01 17:31	20° ≈ 35'07		morning max el	5326 Feb 02 20:59	22° る 45'48	21°06'41
	5325 Mar 08 11:53	0° ∀		Č	5326 Feb 09 02:14	0° ≈	
morning set	5325 Mar 26 00:40	26° ¥ 57'59		desc. node	5326 Feb 16 14:33	10°≈17'24	
<u>-</u>	5325 Mar 27 20:54	$0^{\circ}\Upsilon$			5326 Mar 01 19:44	0° ∀	
max. Earth dist.	5325 Mar 30 23:33	5° Υ 12'55	1.40518 AU	morning set	5326 Mar 05 12:26	5°) 45′05	
				max. Earth dist.	5326 Mar 13 02:03	17° ¥ 52'06	1.42549 AU
superior conj	5325 Apr 07 18:50	18° Y 51'50	-1°53'49				
minimum elong	5325 Apr 07 23:41	19° Y 13'38	1°53'26	superior conj	5326 Mar 20 06:55	29°) 53′48	-2°07'37
	5325 Apr 13 20:10	0° 8		minimum elong	5326 Mar 20 09:06	0° Y 03′05	2°07'34
evening rise	5325 Apr 17 20:59	7° 8 35'28			5326 Mar 20 08:23	$0^{\circ}\mathbf{\Upsilon}$	

evening rise	5326 Mar 31 19:27	20° Ƴ 11'26		evening max el	5327 Apr 01 00:23	29° Ƴ 41'39	18°11'31
e vennig rise	5326 Apr 06 07:16	0°8		evening man er	5327 Apr 01 07:53	0°8	10 1101
asc. node	5326 Apr 09 07:45	5° 8 10'15		retrograde	5327 Apr 07 10:12	3° 8 05'00	
evening max el	5326 Apr 17 11:30	16° 8 25'29	18°07'06	evening set	5327 Apr 10 07:36	2° 8 21'31	
retrograde	5326 Apr 24 03:01	19° 8 49'03		3	5327 Apr 13 13:45	30° R Υ	
evening set	5326 Apr 26 18:08	19° 8 17'20		inferior conj	5327 Apr 16 10:09		3°25'21
inferior conj	5326 May 03 09:13	14° 8 20'23	2°58'09	minimum elong	5327 Apr 16 11:32	27° Ƴ 01'14	3°25'12
minimum elong	5326 May 03 12:07	14° 8 13'24	2°57'34	min. Earth dist.	5327 Apr 19 02:30	24° Ƴ 10′53	0.63054 AU
min. Earth dist.	5326 May 06 14:18	11° 8 16'45	0.60930 AU	morning rise	5327 Apr 22 14:14	20° Ƴ 58'02	
morning rise	5326 May 10 03:59	8° 8 26'00		direct	5327 Apr 29 10:37	18° Ƴ 20'41	
desc. node	5326 May 15 13:46	6° 8 17'38		desc. node	5327 May 02 10:47	18° Ƴ 47'53	
direct	5326 May 16 20:25	6° 8 12'52		morning max el	5327 May 13 09:46	26° Ƴ 20'38	27°48'24
morning max el	5326 May 31 02:34	14° 8 09'34	27°48'33	Ü	5327 May 16 19:28	$0^{\circ}B$	
Č	5326 Jun 12 20:09	0°II			5327 Jun 06 10:14	0°II	
	5326 Jun 30 05:20	0°ಅ		morning set	5327 Jun 16 17:52	19° Ⅱ 18'26	
morning set	5326 Jul 02 19:09	5° © 13'14		Ü	5327 Jun 21 21:44	0ංම	
asc. node	5326 Jul 06 07:02	12°935'01		max. Earth dist.	5327 Jun 22 01:05	0°917'45	1.32634 AU
max. Earth dist.	5326 Jul 08 19:33	18° © 03'03	1.32058 AU	asc. node	5327 Jun 23 04:03	2°542'00	
superior conj	5326 Jul 10 02:28	20°952'31	0°38'49	superior conj	5327 Jun 24 10:37	5° 9 26'45	0°13'13
minimum elong	5326 Jul 10 00:49	20° © 43'29	0°38'29	minimum elong	5327 Jun 24 09:59	5° 5 23'20	0°13'04
	5326 Jul 14 06:08	0 \circ Ω		behind sun begin	5327 Jun 24 06:57	5° © 06'56	
evening rise	5326 Jul 16 21:57	5° Ω 44'46		behind sun end	5327 Jun 24 13:01	5° 5 39'45	
	5326 Jul 29 15:21	0° m ∕		evening rise	5327 Jul 01 09:45	20° © 30'59	
desc. node	5326 Aug 11 13:03	17° Mp 11'06			5327 Jul 06 00:11	0 \circ Ω	
evening max el	5326 Aug 12 10:15	18° Mp 03'06	25°08'05	evening max el	5327 Jul 24 22:41	28° Ω 29'05	23°33'11
retrograde	5326 Aug 26 08:26	25° m 05'33			5327 Jul 26 14:22	0° m ∕	
evening set	5326 Aug 31 23:38	23° m 53'10		desc. node	5327 Jul 29 10:03	2° Mp 10'20	
min. Earth dist.	5326 Sep 05 21:49			retrograde	5327 Aug 07 12:56	5° m) 18'14	
inferior conj	5326 Sep 08 21:13	19° m) 10'57		evening set	5327 Aug 11 16:55	4° Mp 40'10	
minimum elong	5326 Sep 08 22:58	19° m 08'00	5°16'56	min. Earth dist.	5327 Aug 18 08:24	-	0.55844 AU
morning rise	5326 Sep 17 00:34	14° m 59'07		inferior conj	5327 Aug 20 09:57	0° m 19'34	
direct	5326 Sep 19 13:32	14° Mp 40'11		minimum elong	5327 Aug 20 05:14	0° m/26'37	5°06'10
morning max el	5326 Sep 28 11:42	18° My 53′26	19°05'22		5327 Aug 20 23:06	30°R Ω	
asc. node	5326 Oct 02 06:16	23° mp 10'10		morning rise	5327 Aug 28 19:59	26° Ω 25'42	
	5326 Oct 06 19:27	0∘ ⊽		direct	5327 Aug 31 16:30	26° Ω 05'35	
morning set	5326 Oct 15 06:39	15° ≙ 47'34			5327 Sep 10 00:59	0° m)	
	5326 Oct 22 11:16	0°M₊		morning max el	5327 Sep 11 02:13	0° m 55'52	20°13'10
				asc. node	5327 Sep 19 03:19	11° m) 07'47	
superior conj	5326 Oct 23 13:21	2°M06'09		morning set	5327 Sep 29 11:54	0° £ 23'31	
minimum elong	5326 Oct 23 15:59	2°M18'51	1°32'03		5327 Sep 29 07:17	0∘ ⊽	
max. Earth dist.	5326 Oct 30 07:24	14°M42'13	1.38673 AU				
evening rise	5326 Nov 03 02:44	21°M25'30		superior conj	5327 Oct 07 03:22	16° £ 02'08	1°41'33
desc. node	5326 Nov 07 12:21	28°M51'46		minimum elong	5327 Oct 07 04:27	16° £ 07'35	1°41'32
	5326 Nov 08 04:56	0° ∡ ¹		max. Earth dist.	5327 Oct 12 13:36		1.36632 AU
	5326 Nov 28 13:44	0° ろ			5327 Oct 14 07:32	0° M ₅	
evening max el	5326 Dec 08 14:00	11°る38'01	24°41'01	evening rise	5327 Oct 16 09:48	3°M52'06	
retrograde	5326 Dec 20 03:25	18° る 22'10		desc. node	5327 Oct 25 09:20	19°M22'19	
evening set	5326 Dec 25 16:16	16° る 03'47			5327 Nov 01 04:22	0° ∡ 7	
asc. node	5326 Dec 29 05:30	12° る 12'45	0.67604 433	evening max el	5327 Nov 21 02:30	25° ₹ 21'26	25°51'57
min. Earth dist.	5326 Dec 30 06:37	10° る 51'13			5327 Nov 26 17:05	0°る 2° ろ 2717	
inferior conj	5326 Dec 31 04:48	9° る 37'34	0°39'45	retrograde	5327 Dec 03 13:06	2°る27'17	
minimum elong	5326 Dec 31 03:51	9° る 40'43	0°39'22	evening set	5327 Dec 09 15:27	29° ₹ 56'19	
morning rise	5327 Jan 05 15:34	3° る 37'28		min P d V	5327 Dec 09 13:41	30°R⊀	0.66052 441
direct	5327 Jan 09 08:26	2°る18'48	10055120	min. Earth dist.	5327 Dec 13 22:34	25° х 18'38	0.66952 AU
morning max el	5327 Jan 16 20:40	6° る 33'13	19°55'30	inferior conj	5327 Dec 15 07:55	23° ₹ 33'40	
desc. node	5327 Feb 03 11:35	0°≈23'18		minimum elong	5327 Dec 15 08:20		0°15'40
	5327 Feb 03 05:23	0°≈ 13°≈ ≈5 (142		transit middle	5327 Dec 15 08:20	23° 🗷 32'22	0°15'40
morning set	5327 Feb 12 09:00	13°≈56'42		transit begin	5327 Dec 15 07:39	23° ∡ 34'31	
TO 41 12 1	5327 Feb 22 15:23	0° \ 10 \ (24 24	1 44120 177	transit end	5327 Dec 15 09:01	23° 🗷 30'13	
max. Earth dist.	5327 Feb 23 12:39	1° # 24'34	1.44138 AU	asc. node	5327 Dec 16 02:32	22° 🗷 35'28	
	5007 F. 1. 00 17 11	001/4	2006100	morning rise	5327 Dec 21 01:41	17° 🖈 42'14	
superior conj	5327 Feb 28 17:41	9°) 47′51		direct	5327 Dec 24 07:08	16° ∡ 742'35	1005010
minimum elong	5327 Feb 28 14:03	9°) 33′02	2~06'02	morning max el	5327 Dec 31 04:03	20° ∡ 30'11	18°59'01
	5327 Mar 12 20:09	0° Υ			5328 Jan 07 17:34	0°る	
evening rise	5327 Mar 13 23:28	1° Y 56'42		desc. node	5328 Jan 21 08:35	20°₹45'42	
asc. node	5327 Mar 27 04:47	23° Y 42'34		morning set	5328 Jan 22 14:57	22° る 44'05	

	5328 Jan 27 06:41	0° ≈		superior conj	5329 Jan 17 08:35	27° る 22'15	-1°06'32
max. Earth dist.	5328 Feb 06 04:47	15° ≈ 31'37	1.45095 AU	minimum elong	5329 Jan 17 00:37	26° る 50'56	1°05'31
				max. Earth dist.	5329 Jan 18 23:30	29° る 54'55	1.45329 AU
superior conj	5328 Feb 08 05:32	18° ≈ 43′28	-1°45'09		5329 Jan 19 00:47	0° ≈	
minimum elong	5328 Feb 07 20:35	18° ≈ 08'13	1°44'24	evening rise	5329 Feb 02 11:47	22° ≈ 37′28	
	5328 Feb 15 07:55	0° ∀			5329 Feb 07 04:46	0° ∀	
evening rise	5328 Feb 23 05:08	12°) 44′26		greatest brilliancy	5329 Feb 13 13:08	9° 米 51'42	-0.8m
	5328 Mar 04 21:04	0° Υ		evening max el	5329 Feb 25 21:07	26°) (39'02	19°14'51
asc. node	5328 Mar 13 01:48	11° Y 33'57 13° Y 07'44	10024120	asc. node	5329 Feb 27 22:50	28°) 32′29	
evening max el	5328 Mar 14 12:20	13°° Y '07'44 16° Y '43'52	18°34'28		5329 Mar 02 05:36 5329 Mar 04 21:51	0°Υ 0°Υ39'00	
retrograde evening set	5328 Mar 21 01:41 5328 Mar 24 05:25	16° Y 43′32 15° Y 47′47		retrograde	5329 Mar 04 21:51 5329 Mar 07 11:52	0° 1 39 00 30° R X	
inferior conj	5328 Mar 29 23:11	13 γ 47 47 10° Υ 13'29	3°32'21	evening set	5329 Mar 08 08:41	29° ₩ 29'27	
minimum elong	5328 Mar 29 23:00	10°Υ13'29	3°32'21	inferior conj	5329 Mar 13 20:50	23° H 39'18	3°23'58
min. Earth dist.	5328 Apr 01 00:14	7° Υ 46'42	0.64885 AU	minimum elong	5329 Mar 13 19:26	23°) (3) 18	3°23'50
morning rise	5328 Apr 04 15:57	4° Υ '00'29	0.0.000110	min. Earth dist.	5329 Mar 15 06:36	21°) 50'30	0.66327 AU
direct	5328 Apr 11 08:41	1° Υ 11'32		morning rise	5329 Mar 19 05:50	17°) 24'21	
desc. node	5328 Apr 18 07:49	3° Ƴ 37'18		direct	5329 Mar 25 13:23	14°) 36′50	
morning max el	5328 Apr 24 19:42	9° Ƴ 05'03	27°13'21	desc. node	5329 Apr 05 04:51	20°) 12′13	
	5328 May 11 03:36	$0^{\circ}B$		morning max el	5329 Apr 07 05:36	22°) €09'46	26°10'33
	5328 May 28 19:21	$\Pi^{\circ}0$			5329 Apr 14 02:23	0 ° $\mathbf{\Upsilon}$	
morning set	5328 May 30 07:36	2° Ⅱ 54'16			5329 May 04 09:47	9° 8	
max. Earth dist.	5328 Jun 03 21:54	12° Ⅱ 04'21	1.33664 AU	morning set	5329 May 13 08:34	15° 8 49'27	
				max. Earth dist.	5329 May 17 07:20	23° 8 20'10	1.35166 AU
superior conj	5328 Jun 07 14:04	19° Ⅱ 42'45			5329 May 20 16:13	Π $^{\circ}0$	
minimum elong	5328 Jun 07 14:51	19° Ⅱ 46'55	0°14'55				
behind sun begin	5328 Jun 07 12:49	19° II 36'11		superior conj	5329 May 22 10:22	3° I I33'16	
behind sun end asc. node	5328 Jun 07 16:53 5328 Jun 09 01:05	19° Ⅲ 57'38 22° Ⅲ 48'12		minimum elong asc. node	5329 May 22 12:50	3° Ⅱ 45'54 12° Ⅱ 49'09	0°44'24
asc. node	5328 Jun 12 10:05	0°95		evening rise	5329 May 26 22:07 5329 May 30 04:44	12 ∏ 4909 19° ∏ 36'42	
evening rise	5328 Jun 12 10:03	ა ფ 5° © 10'31		evening rise	5329 Jun 04 09:36	0°95	
evening rise	5328 Jun 28 08:45	0°Ω		evening max el	5329 Jun 17 15:57	19° © 44'08	20°31'51
evening max el	5328 Jul 05 14:07	8°Ω52'35	21°56'46	retrograde	5329 Jun 28 18:56	25°5011'16	20 3101
desc. node	5328 Jul 15 07:03	14° Ω 49'06		evening set	5329 Jun 30 19:08	25°501'22	
retrograde	5328 Jul 18 06:21	15° Ω 09'46		desc. node	5329 Jul 02 04:05	24°543'45	
evening set	5328 Jul 21 00:23	14° Ω 52'50		inferior conj	5329 Jul 10 00:44	21°504'14	-2°19'22
inferior conj	5328 Jul 30 07:13	10° Ω 49'34	-4°04'57	minimum elong	5329 Jul 09 18:17	21° © 13'33	2°17'06
minimum elong	5328 Jul 29 22:23	11° Ω 01'57	4°02'41	min. Earth dist.	5329 Jul 11 05:55	20°522'04	0.54898 AU
min. Earth dist.	5328 Jul 29 18:27		0.54904 AU	morning rise	5329 Jul 18 16:38	16° © 56'59	
morning rise	5328 Aug 07 21:56	6° Ω 59'08		direct	5329 Jul 22 14:06	16°924'17	
direct	5328 Aug 11 04:23	6° Ω 35'34		morning max el	5329 Aug 04 21:49	22° © 51'02	23°22'51
morning max el	5328 Aug 23 04:46	12° Ω 13'13	21°41'11		5329 Aug 11 05:59	0°N	
asc. node	5328 Sep 05 00:21	29° Ω 47'33		asc. node	5329 Aug 22 21:24	18° Ω 58'13	
marning sat	5328 Sep 05 03:09 5328 Sep 12 21:11	0°M)		morning set	5329 Aug 28 08:31	0° Т р 02'54 0° Т р	
morning set	5328 Sep 12 21:11 5328 Sep 19 21:54	15° Mp 10′52 0° <u> </u>			5329 Aug 28 07:59	V IŲ	
	3328 Sep 19 21.34	0 ==		superior conj	5329 Sep 04 08:44	15° m 07'26	1°38'08
superior conj	5328 Sep 20 02:54	0° ჲ 26'09	1°43'07	minimum elong	5329 Sep 04 07:16	14° Mp 59'37	1°38'01
minimum elong	5328 Sep 20 02:32	0° £ 24'17	1°43'07	max. Earth dist.	5329 Sep 06 22:52	20° m 38'49	1.33497 AU
max. Earth dist.	5328 Sep 24 01:50	8° ≏ 34'25	1.34870 AU		5329 Sep 11 11:45	0∘ ⊽	
evening rise	5328 Sep 28 10:07	17° ≏ 07'09		evening rise	5329 Sep 11 23:26	0° £ 58′21	
	5328 Oct 05 11:35	0°M₊		desc. node	5329 Sep 28 03:23	29° ≙ 31'19	
desc. node	5328 Oct 11 06:22	9°M38'03			5329 Sep 28 10:51	0° M	
	5328 Oct 25 12:53	0° ∡ ¹		evening max el	5329 Oct 16 03:33	22°M25'47	27°20'55
evening max el	5328 Nov 02 15:11	9° ∡ 100'40	26°47'38	retrograde	5329 Oct 29 16:03	29°M44'05	
retrograde	5328 Nov 15 17:34	16° ∡ 17'27		evening set	5329 Nov 05 16:05	27°M05'15	
evening set	5328 Nov 22 08:13	13° х 38'46	0.650.00 :==	min. Earth dist.	5329 Nov 09 10:59	23°M36'51	0.64422 AU
min. Earth dist.	5328 Nov 26 08:46	9° ∡ 136′16	0.65860 AU	inferior conj	5329 Nov 11 19:48	21°M05'16	
inferior conj	5328 Nov 28 05:43	7°×724'45		minimum elong	5329 Nov 11 23:52	20°M54'22	2~1 /'59
minimum elong asc. node	5328 Nov 28 07:52	7° х 18′27 3° х 25′20	1-15/1/	morning rise asc. node	5329 Nov 18 08:59	15°M39'04 15°M27'43	
asc. node morning rise	5328 Dec 01 23:34 5328 Dec 04 08:24	1° × ⁷ 44'27		asc. node direct	5329 Nov 18 20:38 5329 Nov 20 22:00	15°1162/43	
direct	5328 Dec 04 08.24 5328 Dec 07 04:26	1°×'4427 1°×'00'03		morning max el	5329 Nov 20 22:00 5329 Nov 27 09:43	18°M31'10	17°55'17
morning max el	5328 Dec 07 04:20 5328 Dec 13 17:18	4° ∡ 731'48	18°18'39	morning max of	5329 Nov 27 09:43 5329 Dec 05 20:38	0° ₹	1, 5511
	5328 Dec 31 04:38	0° ਰ		morning set	5329 Dec 03 20:30 5329 Dec 14 14:07	14° × ⁷ 31'52	
morning set	5329 Jan 02 00:00	2°る55'02		5	5329 Dec 23 20:49	0°る	
desc. node	5329 Jan 07 05:37	11° る 19'56		desc. node	5329 Dec 25 02:40	2° ප 01'55	

superior conj	5329 Dec 27 23:10	6° る 39'21	-0°19'53	morning set	5330 Nov 27 03:27	27° M 15'39	
minimum elong	5329 Dec 27 20:49	6° ♂ 29'54	0°19'32	Č	5330 Nov 28 16:33	0° ∡ ¹	
max. Earth dist.	5330 Jan 01 18:28	14° る 19'22	1.44826 AU				
	5330 Jan 11 19:43	0° ≈		superior conj	5330 Dec 08 14:16	17° ∡ 08'55	0°23'53
evening rise	5330 Jan 13 01:42	1° ≈ 55'23		minimum elong	5330 Dec 08 16:31	17° ∡ 18′26	0°23'34
greatest brilliancy	5330 Jan 27 19:35	24° ≈ 11'24	-0.6m	desc. node	5330 Dec 11 23:41	22° ₹ 47'58	
	5330 Jan 31 20:50	0° ∀		max. Earth dist.	5330 Dec 15 11:05	28° ∡ ′28′08	1.43649 AU
evening max el	5330 Feb 09 01:11	10° ¥ 12'53	20°10'46		5330 Dec 16 09:54	0°る	
asc. node	5330 Feb 14 19:53	14° ∺ 24'06 14° ∺ 45'27		evening rise	5330 Dec 23 12:41	11°る13'19 0°≈	
retrograde evening set	5330 Feb 16 19:56 5330 Feb 20 15:08	13° H 21'33		evening max el	5331 Jan 04 23:29 5331 Jan 22 23:43	0°≈ 23°≈47'33	21°19'16
inferior conj	5330 Feb 26 00:12	7° H 17'42	3°03'36	retrograde	5331 Jan 31 17:47	28°≈58'46	21 1910
minimum elong	5330 Feb 25 22:03	7° H 24'56	3°03'11	asc. node	5331 Feb 01 16:56	28°≈53'47	
min. Earth dist.	5330 Feb 26 19:47	6° ₩ 11'27	0.67342 AU	evening set	5331 Feb 04 22:52	27°≈19'37	
morning rise	5330 Mar 03 04:45	1°) €03'11		inferior conj	5331 Feb 10 06:54	21° ≈ 04'40	2°33'25
	5330 Mar 04 12:05	30° ₹ ≈		minimum elong	5331 Feb 10 04:30	21°≈13′00	2°32'45
direct	5330 Mar 08 23:39	28° ≈ 27'57		min. Earth dist.	5331 Feb 10 13:40	20° ≈ 41'16	0.67938 AU
	5330 Mar 13 23:16	0° ∀		morning rise	5331 Feb 15 09:57	14° ≈ 52′10	
morning max el	5330 Mar 20 14:22	5°) 24′50	24°49'37	direct	5331 Feb 20 14:27	12° ≈ 36′16	
desc. node	5330 Mar 23 01:53	8° ∺ 03′27		morning max el	5331 Mar 02 23:19	18° ≈ 45'55	23°20'42
	5330 Apr 08 13:40	$0^{\circ}\mathbf{\Upsilon}$		desc. node	5331 Mar 09 22:55	26° ≈ 48′52	
morning set	5330 Apr 25 15:54	27° Y ′50′17			5331 Mar 12 09:56	0° ∀	
	5330 Apr 26 20:59	0°8			5331 Apr 01 17:07	0° Υ	
max. Earth dist.	5330 Apr 29 06:41	4° 8 22'00	1.37087 AU	morning set	5331 Apr 06 23:31	8° Υ 40'13	1 20250 444
	5220 M 05, 20-20	16005002	1914126	max. Earth dist.	5331 Apr 11 02:10	15° Y 42'35	1.39259 AU
superior conj minimum elong	5330 May 05 20:29 5330 May 06 00:36	16° 8 50'23 17° 8 10'32		superior conj	5331 Apr 18 16:24	29° Y 23'12	10/11/11
minimum ciong	5330 May 12 11:08	0° Ⅱ	1 13 46	minimum elong	5331 Apr 18 10.24 5331 Apr 18 21:28	29° Y $46'43$	
asc. node	5330 May 13 19:10	2° II 40'56		minimum clong	5331 Apr 19 00:19	0° 8	1 4037
evening rise	5330 May 14 07:35	3° Ⅱ 43'05		evening rise	5331 Apr 28 02:16	17° 8 21'06	
	5330 May 30 00:33	0ංම 		asc. node	5331 Apr 30 16:12	22° 8 18'12	
evening max el	5330 May 31 06:24	1° © 17'36	19°25'17		5331 May 04 20:18	0° I I	
retrograde	5330 Jun 09 15:40	5° 9 52'51		evening max el	5331 May 14 07:26	13° Ⅱ 30′20	18°39'06
evening set	5330 Jun 11 14:20	5° 9 41'55		retrograde	5331 May 22 06:14	17° Ⅱ 25′29	
desc. node	5330 Jun 19 01:06	2°520'07		evening set	5331 May 24 10:27	17° Ⅱ 08'53	
inferior conj	5330 Jun 20 05:01	1° © 35'22	-0°20'49	inferior conj	5331 Jun 01 05:10	12° Ⅱ 44′00	1°20'15
minimum elong	5330 Jun 20 04:06	1°936'51	0°20'29	minimum elong	5331 Jun 01 07:55	12° Ⅱ 38'47	1°19'19
	5330 Jun 22 16:05	30°RⅡ		min. Earth dist.	5331 Jun 04 12:53	10° Ⅱ 14'14	0.57535 AU
min. Earth dist.	5330 Jun 22 19:35	29° Ⅱ 54'29	0.55846 AU	desc. node	5331 Jun 05 22:08	9° Ⅱ 16'42	
morning rise	5330 Jun 28 15:07	26° Ⅱ 55'55		morning rise	5331 Jun 09 02:06	7° Ⅱ 28'45	
direct	5330 Jul 03 09:24	26° Ⅱ 04'36		direct	5331 Jun 14 18:24	6° Ⅱ 08'29	26922111
morning max el	5330 Jul 13 16:45 5330 Jul 17 11:14	0°छ	25°05'31	morning max el	5331 Jun 29 03:22 5331 Jul 12 01:25	13° ∏ 42'42 0° ©	26°33'11
morning max er	5330 Aug 05 09:00	0°Ω	23 03 31	asc. node	5331 Jul 12 01:23 5331 Jul 27 15:30	0 3 28° 9 21'37	
asc. node	5330 Aug 09 18:28	8° Ω 31'49		morning set	5331 Jul 28 06:43	29° 9 41'37	
morning set	5330 Aug 12 20:14	14° Ω 54'47		morning sec	5331 Jul 28 10:12	0°Ω	
morning sec	22201148 12 20:11	1.000			2331 vai 20 10.12	000	
superior conj	5330 Aug 19 18:27	29° Ω 58'22	1°27'29	superior conj	5331 Aug 04 06:01	14° Ω 52'37	1°11'56
minimum elong	5330 Aug 19 16:20	29° Ω 46'49	1°27'14	minimum elong	5331 Aug 04 03:43	14° Ω 39'54	1°11'34
	5330 Aug 19 18:44	0° m		max. Earth dist.	5331 Aug 04 13:58	15° Ω 36′27	1.32025 AU
max. Earth dist.	5330 Aug 21 03:55	3° m 01'15	1.32552 AU	evening rise	5331 Aug 11 03:25	29° Ω 50′21	
evening rise	5330 Aug 26 22:10	15° m 15'37			5331 Aug 11 05:15	0° m ∕	
	5330 Sep 03 12:15	0∘ ⊽			5331 Aug 27 15:52	0。 ಹ	
desc. node	5330 Sep 15 00:24	18° ≙ 52'46		desc. node	5331 Sep 01 21:25	7° £ 29'40	
	5330 Sep 23 11:16	0°M	27025110	evening max el	5331 Sep 10 18:24	17° £ 40'50	26°56'42
evening max el	5330 Sep 28 13:33	5°M23'35	27°25'19	retrograde	5331 Sep 24 15:41	24° £ 51'17	
retrograde	5330 Oct 12 07:40 5330 Oct 19 11:50	12°M38'14 10°M09'14		evening set min. Earth dist.	5331 Oct 01 15:23 5331 Oct 05 08:35	22° △ 43'52 20° △ 05'05	0.60675 AU
evening set min. Earth dist.	5330 Oct 19 11:50 5330 Oct 23 03:14	7°ML10'36	0.62669 AU	min. Earth dist.	5331 Oct 05 08:35 5331 Oct 08 13:00	20° 22 05'05 17° 2 25'04	
inferior conj	5330 Oct 25 03:14 5330 Oct 25 23:19	4°ML28'13		minimum elong	5331 Oct 08 13:00 5331 Oct 08 19:20	17° 22 3°04 17° 2 11'44	
minimum elong	5330 Oct 25 25:19 5330 Oct 26 05:05	4°M14'26		morning rise	5331 Oct 08 19:20 5331 Oct 16 01:16	17 ⊆ 11 44 12° ⊆ 37'37	1 1/44
	5330 Oct 20 03:03 5330 Oct 31 12:30	30°R ≏		direct	5331 Oct 18 08:49	12° ⊆ 3737	
morning rise	5330 Nov 02 00:02	29° £ 19'37		asc. node	5331 Oct 23 14:44	14° ⊆ 09'42	
direct	5330 Nov 04 08:46	28° ≙ 54'06		morning max el	5331 Oct 25 15:53	15° ≙ 53'43	18°02'55
asc. node	5330 Nov 05 17:42	29° ჲ 02'56		-	5331 Nov 04 11:40	0°M	
	5330 Nov 08 02:52	0°M₊		morning set	5331 Nov 10 09:39	10°M47'30	
morning max el	5330 Nov 11 02:18	2°M21'01	17°49'41				

superior conj	5331 Nov 20 07:27	28°M54'54			5332 Oct 26 19:03	0° M	
minimum elong	5331 Nov 20 11:20 5331 Nov 20 22:09	29° ™ 12'09 0° ҂	0°58'06	superior coni	5222 Nov. 01, 22:07	11° M 42'56	1°22'50
max. Earth dist.	5331 Nov 20 22:09 5331 Nov 27 23:00	0° × ° 12° × ⁷ 04'46	1.41932 AU	superior conj minimum elong	5332 Nov 01 22:07 5332 Nov 02 01:31	11°ML58'50	1°22'30
desc. node	5331 Nov 27 23:00 5331 Nov 28 20:43	12 × 04 40	1.41932 AU	max. Earth dist.	5332 Nov 02 01:31 5332 Nov 09 05:32	24°M56'41	1.39892 AU
evening rise	5331 Nov 28 20.45 5331 Dec 03 12:06	13 x ·33 03 21° x ⁷ 08'32		max. Earm dist.	5332 Nov 09 03:52 5332 Nov 12 03:58	24 1163041 0° √ 7	1.39892 AU
evening rise	5331 Dec 03 12.00 5331 Dec 09 03:33	21 x ·0832		ovanina rica	5332 Nov 12 03:38 5332 Nov 13 08:49	0 x . 2° x 01'42	
	5331 Dec 09 05:33 5331 Dec 30 06:23	0°≈		evening rise desc. node	5332 Nov 13 08.49 5332 Nov 14 17:43	4° ₹ 18'53	
evening max el	5331 Dec 30 00:23 5332 Jan 05 17:14	0 ≈ 7°≈24'22	22°36'09	desc. Hode	5332 Nov 14 17.45 5332 Dec 01 11:05	0°る	
•	5332 Jan 15 13:51	7 ≈24 22 13°≈15'53	22 30 09	avanina may al	5332 Dec 01 11.03 5332 Dec 18 07:14	0 3 21° る 04'04	23°56'10
retrograde	5332 Jan 15 13:51 5332 Jan 19 13:57	13°≈13'33 11°≈52'32		evening max el retrograde	5332 Dec 18 07:14 5332 Dec 29 06:44	21° る 04'04 27° る 32'02	23-36-10
asc. node	5332 Jan 20 06:17	11 ≈32 32 11°≈21'07		evening set	5332 Dec 29 06.44 5333 Jan 03 11:48	27 3 32 02 25° る 21'56	
evening set			1054155	Č		23° る 21'36 23° る 24'14	
inferior conj	5332 Jan 25 14:58	4°≈58'21	1°54'55	asc. node	5333 Jan 05 10:59		1000107
minimum elong	5332 Jan 25 12:47	5°≈05'58	1°54'10	inferior conj	5333 Jan 08 22:33	18°る55'29	1°09'06
min. Earth dist.	5332 Jan 25 10:03	5°≈15'26	0.68138 AU	minimum elong	5333 Jan 08 21:01	19° ろ 00'42	1°08'30
	5332 Jan 29 13:08	30°₹₹		min. Earth dist.	5333 Jan 08 06:37	19° る 49'36	0.67959 AU
morning rise	5332 Jan 30 19:10	28° る 49'13		morning rise	5333 Jan 14 06:16	12° る 51'22	
direct	5332 Feb 04 09:02	26° る 55'52		direct	5333 Jan 18 06:20	11° る 20'36	
	5332 Feb 11 00:46	0° ≈		morning max el	5333 Jan 26 06:56		20°34'40
morning max el	5332 Feb 13 11:49	2°≈15'43	21°53'16		5333 Feb 06 11:08	0° ≈	
desc. node	5332 Feb 24 19:58	16°≈13'44		desc. node	5333 Feb 10 17:00	6°≈06'54	
	5332 Mar 05 09:12	0° ∀		morning set	5333 Feb 24 05:37	26° ≈ 34'03	
morning set	5332 Mar 17 02:53	18° ∺ 09'48			5333 Feb 26 10:27	0° ∀	
max. Earth dist.	5332 Mar 23 00:52	27° ¥ 50′03	1.41421 AU	max. Earth dist.	5333 Mar 05 06:24	10° ¥ 51'28	1.43287 AU
	5332 Mar 24 07:54	0 ° $\mathbf{\gamma}$					
				superior conj	5333 Mar 11 18:57	21°) 33′50	
superior conj	5332 Mar 30 17:27	11° Y 00'53		minimum elong	5333 Mar 11 18:57	21°) 33′52	2°09'12
minimum elong	5332 Mar 30 21:34	11° Ƴ 19'01	2°00'56		5333 Mar 16 18:32	0 ° $\mathbf{\gamma}$	
evening rise	5332 Apr 10 09:18	0° 8 22'23		evening rise	5333 Mar 24 00:27	12° Ƴ 37'44	
	5332 Apr 10 04:27	9° 8		asc. node	5333 Apr 03 10:14	0° 8 26'58	
asc. node	5332 Apr 16 13:13	11° 8 35'40			5333 Apr 03 03:24	9° 8	
evening max el	5332 Apr 26 15:42	26° 8 14'32	18°13'08	evening max el	5333 Apr 10 03:51	9° 8 21'41	18°06'43
retrograde	5332 May 03 15:30	29° 8 45'21		retrograde	5333 Apr 16 15:52	12° 8 43'37	
evening set	5332 May 06 02:37	29° 8 19'55		evening set	5333 Apr 19 09:36	12° 8 07'11	
inferior conj	5332 May 13 02:45	24° 8 34'39	2°31'02	inferior conj	5333 Apr 25 18:52	7° 8 02'01	3°12'31
minimum elong	5332 May 13 06:10	24° 8 27'05	2°30'09	minimum elong	5333 Apr 25 21:11	6° 8 56'09	3°12'09
min. Earth dist.	5332 May 16 12:06	21° 8 36'00	0.59647 AU	min. Earth dist.	5333 Apr 28 19:15	3° 8 59'25	0.61851 AU
morning rise	5332 May 20 06:58	18° 8 51'06		morning rise	5333 May 02 07:00	1° 8 01'05	
desc. node	5332 May 22 19:10	17° 8 39'00		-	5333 May 03 21:54	30° ŖƳ	
direct	5332 May 26 16:47	16° 8 56'26		direct	5333 May 09 02:10	28° Ƴ 35'55	
morning max el	5332 Jun 10 01:42	24° 8 48'19	27°31'36	desc. node	5333 May 09 16:12	28° Ƴ 36'56	
•	5332 Jun 14 19:50	Π $^{\circ}$ 0			5333 May 14 14:27	0°8	
	5332 Jul 04 08:38	0°©		morning max el	5333 May 23 06:05	6° 8 36'07	27°53'07
morning set	5332 Jul 11 14:12	14°917'26		C	5333 Jun 09 23:19	$\Pi^{\circ}0$	
asc. node	5332 Jul 13 12:30	18° © 21'47		morning set	5333 Jun 25 16:47	28° Ⅲ 36′11	
max. Earth dist.	5332 Jul 18 01:12	28°513'02	1.31917 AU	· ·	5333 Jun 26 09:08	0ංම	
				asc. node	5333 Jun 30 09:31	8° © 27'49	
superior conj	5332 Jul 18 17:39	29°5643'47	0°52'02	max. Earth dist.	5333 Jul 01 09:45	10°938'32	1.32238 AU
minimum elong	5332 Jul 18 15:38	29°532'38	0°51'39				
Č	5332 Jul 18 20:35	$0^{\circ}\Omega$		superior conj	5333 Jul 03 03:37	14°526'22	0°28'22
evening rise	5332 Jul 25 12:45	14° £ 34'38		minimum elong	5333 Jul 03 02:21	14°9519'26	0°28'05
8	5332 Aug 02 05:28	0° m/y		evening rise	5333 Jul 10 00:11	29°522'09	
desc. node	5332 Aug 18 18:26	25° m 03'17		- · · · · · · · · · · · · · · · · · · ·	5333 Jul 10 07:18	0°N	
evening max el	5332 Aug 22 15:46	29° m 08'38	25°55'30		5333 Jul 26 23:21	0° m)	
evening max or	5332 Aug 23 13:58	0ಂ ರ	23 33 30	evening max el	5333 Aug 04 06:16	-	24°29'06
retrograde	5332 Sep 05 14:51	6° ₽ 15'32		desc. node	5333 Aug 05 15:25	11° m 08'25	2. 22 00
evening set	5332 Sep	4° £ 41'03		retrograde	5333 Aug 18 02:53	16° mp 51'12	
min. Earth dist.	5332 Sep 11 21:47 5332 Sep 16 04:14	2° £ 05'30	0.58601 AU	evening set	5333 Aug 23 03:43	15° m 54'35	
inferior conj	5332 Sep 10 04.14 5332 Sep 19 09:13	29° Mp 45'20		min. Earth dist.	5333 Aug 28 17:23		0.56714 AU
minimum elong	5332 Sep 19 09:13 5332 Sep 19 13:38	29° Mp 37'14		inferior conj	5333 Aug 28 17.23 5333 Aug 31 09:28	13 mp 21'31	
minimum ciong	5332 Sep 19 13.38 5332 Sep 19 01:14	29 11Ų3/14 30°R∭0	J 0J 40	minimum elong	•	11° m/22'53	
morning rise	5332 Sep 19 01:14 5332 Sep 27 07:47	25° Mp 20'59		morning rise	5333 Aug 31 08:36 5333 Sep 08 15:55	7° m) 18'17	J 104J
direct	5332 Sep 27 07:47 5332 Sep 29 17:33	25° Mp 02'05		direct	5333 Sep 08 15:55 5333 Sep 11 07:32	6° Mp 59'13	
	-	-	18036122		-		10021127
morning max el	5332 Oct 07 23:00 5332 Oct 08 23:07	28° Mp 59'01 0° <u>Ω</u>	18°36'23	morning max el asc. node	5333 Sep 20 20:19 5333 Sep 26 08:49	11° Mp 27'13 18° Mp 02'45	19°31'27
asa nada		0° ഫ 34'36		asc. nout	5333 Sep 26 08:49 5333 Oct 03 11:20	18° 110 02 45 0° ட	
asc. node morning set	5332 Oct 09 11:46 5332 Oct 24 03:32	0° 22 34'36 24° 2 51'40		morning set	5333 Oct 03 11:20 5333 Oct 08 05:30	ರಿಂ ಶ 18,30	
morning set	3334 OCT 24 U3.32	∠ + ==3140		morning set	2222 001 00 03.30	y == 18 30	

superior conj minimum elong	5333 Oct 16 05:00 5333 Oct 16 06:59	25° £ 18'05 25° £ 27'52	1°37'13 1°37'06	morning set	5334 Sep 22 12:45 5334 Sep 25 10:05	24°№00'04 0° <u>മ</u>	
	5333 Oct 18 14:59	0° M ₊					
max. Earth dist.	5333 Oct 22 10:08	7°M09'35	1.37788 AU	superior conj	5334 Sep 29 23:29	9° £ 27'05	1°43'05
evening rise	5333 Oct 26 04:13	13°M56'48		minimum elong	5334 Sep 29 23:55	9° ≏ 29'21	1°43'05
desc. node	5333 Nov 01 14:43	24°M55'40		max. Earth dist.	5334 Oct 04 18:33	19° ≙ 04'10	1.35846 AU
	5333 Nov 04 18:04	0° ∡		evening rise	5334 Oct 08 19:11	26° ≙ 45'40	
	5333 Nov 26 08:24	0°る	25012124		5334 Oct 10 13:23	0°M	
evening max el	5333 Nov 30 19:59	4°る47'37	25°12'34	desc. node	5334 Oct 19 11:44	15°M20'53	
retrograde	5333 Dec 12 19:19	11°る42'39 9°る18'44		i1	5334 Oct 29 03:35	0° ∡¹ 18° ∡¹ 31'35	26°17'58
evening set min. Earth dist.	5333 Dec 18 13:48 5333 Dec 23 01:03	9°る18'44 4° る 20'35	0.67422 AU	evening max el	5334 Nov 13 08:51 5334 Nov 26 02:47	25° x ⁷ 42'36	20-17-38
asc. node	5333 Dec 23 01:03 5333 Dec 23 08:02	4 3 2033 3° る 57'56	0.67422 AU	retrograde evening set	5334 Nov 26 02.47 5334 Dec 02 10:33	23° x '42 30 23° x '07'57	
inferior conj	5333 Dec 23 08:02 5333 Dec 24 03:52	2°る53'14	0°16'48	min. Earth dist.	5334 Dec 02 10:55 5334 Dec 06 14:56	18° x 45'05	0.66534 AU
minimum elong	5333 Dec 24 03:32 5333 Dec 24 03:27	2°る54'37		inferior conj	5334 Dec 00 14:30 5334 Dec 08 05:03	16° ₹ 48'30	
minimum ciong	5333 Dec 24 03:27 5333 Dec 26 11:11	30°R.★	0 1037	minimum elong	5334 Dec 08 06:10	16° × 45'06	0°40'26
morning rise	5333 Dec 29 17:21	26° ₹ 756'16		asc. node	5334 Dec 10 05:05	14°×726'04	0 1020
direct	5334 Jan 02 05:06	25° х 46'04		morning rise	5334 Dec 14 02:22	11° × 701'14	
morning max el	5334 Jan 09 09:57	29° ₹ 147'55	19°29'24	direct	5334 Dec 17 03:37	10° ∡ 108′22	
5 5	5334 Jan 09 14:45	0°₹		morning max el	5334 Dec 23 20:06	13° ∡ ¹47'48	18°39'44
greatest brilliancy	5334 Jan 22 12:04	17° る 08'24	-0.7m	C	5335 Jan 04 18:16	0°⋜	
desc. node	5334 Jan 28 14:01	26° る 20'27		morning set	5335 Jan 13 19:29	14° る 12'46	
	5334 Jan 30 23:18	0°≈		desc. node	5335 Jan 15 11:01	16° ⋜ 48'47	
morning set	5334 Feb 03 02:59	4° ≈ 51'33			5335 Jan 23 20:13	0°≈	
max. Earth dist.	5334 Feb 15 19:11	24° ≈ 39′01	1.44629 AU	max. Earth dist.	5335 Jan 29 13:16	8° ≈ 57'19	1.45292 AU
	5334 Feb 19 03:57	0° ∀					
				superior conj	5335 Jan 30 00:53	9° ≈ 42'53	
superior conj	5334 Feb 19 19:05	1° ∺ 00′27		minimum elong	5335 Jan 29 15:27	9° ≈ 05'53	1°29'30
minimum elong	5334 Feb 19 12:43	0°) 35′01	1°59'21		5335 Feb 11 21:12	0° ∀	
evening rise	5334 Mar 05 19:16	23° ¥ 58′28		evening rise	5335 Feb 14 14:57	4° ∺ 22'22	
	5334 Mar 09 09:30	0° Υ		greatest brilliancy	5335 Feb 22 13:09	17°) €02'33	-0.9m
asc. node	5334 Mar 21 07:16	18° Y 43'22			5335 Mar 03 02:09	0° Υ	
evening max el	5334 Mar 24 16:43	22°Υ43'12	18°19'10	evening max el	5335 Mar 08 03:40	6° Y 12'44	18°49'37
retrograde	5334 Mar 31 02:55	26°Υ10'14		asc. node	5335 Mar 08 04:20	6° Y 14'24 9° Y 57'22	
evening set	5334 Apr 03 03:01	25° Υ 21'28 19° Υ 57'26	2920126	retrograde	5335 Mar 14 20:46 5335 Mar 18 03:31	9°° Y '57'22 8° Y '55'28	
inferior conj minimum elong	5334 Apr 09 01:25 5334 Apr 09 02:06	19° Y 57'26 19° Y 55'28	3°30'26 3°30'24	evening set inferior conj	5335 Mar 18 03:31 5335 Mar 23 18:32	8° γ 35 28 3° Υ 14'08	3°30'25
min. Earth dist.	5334 Apr 11 11:29	19° 73328 17° $\Upsilon 13'03$	0.63878 AU	minimum elong	5335 Mar 23 17:47	3°Υ16'28	3°30'23
morning rise	5334 Apr 15 00:16	13° Υ 47'31	0.03878 AU	min. Earth dist.	5335 Mar 25 17:47 5335 Mar 25 12:54	1° Υ 02'54	0.65556 AU
direct	5334 Apr 21 20:07	11° Y 03'16		mm. Lartii dist.	5335 Mar 26 09:59	30° R ₩	0.03330710
desc. node	5334 Apr 26 13:14	12° Υ 10'21		morning rise	5335 Mar 29 07:37	27° ₩ 00'12	
morning max el	5334 May 05 14:31	19° Ƴ 01'49	27°37'23	direct	5335 Apr 04 21:03	24°) 10′34	
5 5	5334 May 14 21:26	0°8		desc. node	5335 Apr 13 10:16	27°) 49′00	
	5334 Jun 02 22:04	0° I I			5335 Apr 16 00:23	0° Υ	
morning set	5334 Jun 09 12:01	12° Ⅱ 29'40		morning max el	5335 Apr 18 00:37	1° Y 56'11	26°49'28
max. Earth dist.	5334 Jun 14 11:47	22° II 41'01	1.33012 AU		5335 May 09 01:20	$0^{\circ}B$	
				morning set	5335 May 23 20:47	25° 8 49'10	
superior conj	5334 Jun 17 10:02	28° Ⅲ 53'35	0°01'32		5335 May 26 00:41	$\Pi^{\circ}0$	
minimum elong	5334 Jun 17 09:58	28° Ⅱ 53'13	0°01'29	max. Earth dist.	5335 May 28 04:01	4° Ⅱ 14'16	1.34255 AU
behind sun begin	5334 Jun 17 04:37	28° Ⅱ 24'34				_	
behind sun end	5334 Jun 17 15:19	29° Ⅱ 21'53		superior conj	5335 Jun 01 10:45	12° ∏ 59'31	
asc. node	5334 Jun 17 06:32	28° Ⅱ 34'49		minimum elong	5335 Jun 01 12:14	13° Ⅱ 07'15	0°27'19
	5334 Jun 17 22:25	0°95		asc. node	5335 Jun 04 03:34	18° Ⅱ 39'17	
evening rise	5334 Jun 24 11:50	14°506'04		evening rise	5335 Jun 08 21:49	28° Ⅱ 40'43	
	5334 Jul 02 11:41	0° Ω	22951122		5335 Jun 09 13:03	0°€	
evening max el desc. node	5334 Jul 16 19:04 5334 Jul 23 12:27	20° Ω 13'03 25° Ω 11'57	22°51'33	evening max el	5335 Jun 27 20:26 5335 Jun 28 14:14	0° Ω 0° Ω 44'52	21018124
retrograde	5334 Jul 30 01:57	25 δ (11 37 26° Ω 50'32		desc. node	5335 Jul 28 14.14 5335 Jul 10 09:29	6°Ω41'43	41 10 54
evening set	5334 Aug 02 14:13	26° Ω 23'35		retrograde	5335 Jul 10 09:29 5335 Jul 10 15:35	6° Ω 41'52	
min. Earth dist.	5334 Aug 10 03:28		0.55343 AU	evening set	5335 Jul 10 13:55 5335 Jul 12 23:58	6° Ω 29'07	
inferior conj	5334 Aug 11 14:35	22° Ω 11'39		inferior conj	5335 Jul 22 08:19	2° Ω 30'19	-3°23'59
minimum elong	5334 Aug 11 07:26	22° Ω 21'55		minimum elong	5335 Jul 21 23:44	2° Ω 42′20	
morning rise	5334 Aug 20 02:47	18° Ω 21'10		min. Earth dist.	5335 Jul 22 13:31		0.54785 AU
direct	5334 Aug 23 03:20	17° Ω 59'49			5335 Jul 27 02:32	30° ₹ 5	
morning max el	5334 Sep 03 05:32	23° Ω 09'44	20°48'21	morning rise	5335 Jul 31 00:13	28° © 35'37	
	5334 Sep 09 02:47	0° m		direct	5335 Aug 03 12:33	28°509'00	
asc. node	5334 Sep 13 05:50	6° ™ 19'31			5335 Aug 10 12:14	0 ° Ω	

morning max el	5335 Aug 16 03:17	4°Ω07'18	220221	morning may al	5336 Jul 27 18:09	14° © 35'13	24907!21
asc. node	5335 Aug 31 02:52	25°Ω13'16	22 23 31	morning max el	5336 Aug 08 20:12	0°Ω	24 07 31
asc. node	5335 Aug 51 02:52 5335 Sep 02 15:04	0° m		asc. node	5336 Aug 16 23:54	14°Ω34'57	
morning set	5335 Sep 02 13:04 5335 Sep 06 23:07	8° Mp 49'58		morning set	5336 Aug 21 10:50	23° Ω 43'12	
morning sec	2332 Бер 00 23.07	0 11/10 00		morning sec	5336 Aug 24 09:03	0° m	
superior conj	5335 Sep 14 01:59	23° m 59'03	1°41'44		5550 Hag 21 05.05	√ γ	
minimum elong	5335 Sep 14 01:07	23° m 54'26	1°41'42	superior conj	5336 Aug 28 09:45	8° m 45'57	1°34'15
	5335 Sep 16 22:51	0∘ ಹ		minimum elong	5336 Aug 28 07:58	8° m/36'15	1°34'06
max. Earth dist.	5335 Sep 17 10:42	1° £ 01'15	1.34233 AU	max. Earth dist.	5336 Aug 30 11:24	13° m) 13'44	1.33034 AU
evening rise	5335 Sep 22 01:27	10° ≙ 16'55		evening rise	5336 Sep 04 19:10	24° m) 20'37	
C	5335 Oct 02 23:40	0°M		Č	5336 Sep 07 15:39	0∘ <u>⊽</u>	
desc. node	5335 Oct 06 08:45	5°M28'12		desc. node	5336 Sep 22 05:48	25° ≏ 09'54	
	5335 Oct 24 19:05	0° ∡ ¹			5336 Sep 25 13:11	0°M	
evening max el	5335 Oct 26 21:36	2° ∡ ¹06′28	27°04'58	evening max el	5336 Oct 08 09:02	15°M21'17	27°26'35
retrograde	5335 Nov 09 04:34	9° ∡ °24'12		retrograde	5336 Oct 22 00:18	22°M38'59	
evening set	5335 Nov 15 23:51	6° х 44′20		evening set	5336 Oct 29 03:02	20°M02'34	
min. Earth dist.	5335 Nov 19 21:52	2° ∡ 756'51	0.65293 AU	min. Earth dist.	5336 Nov 01 19:53	16°ML48'01	0.63712 AU
inferior conj	5335 Nov 21 23:53	0° ∡ ³35'59	-1°42'51	inferior conj	5336 Nov 04 09:50	14°ML10'09	-2°46'40
minimum elong	5335 Nov 22 02:51	0° ∡ 27'37	1°41'36	minimum elong	5336 Nov 04 14:41	13°ML57'44	2°44'53
	5335 Nov 22 12:41	30°RM		morning rise	5336 Nov 11 03:53	8°M51'22	
asc. node	5335 Nov 27 02:09	25°M42'49		asc. node	5336 Nov 12 23:10	8°M24'02	
morning rise	5335 Nov 28 06:52	25°Mo1'24		direct	5336 Nov 13 14:41	8°M21'58	
direct	5335 Nov 30 23:43	24°M22'10		morning max el	5336 Nov 20 04:03	11° M 46'47	17°50'45
morning max el	5335 Dec 07 11:06	27° M 49'40	18°06'39		5336 Dec 02 14:05	0° ∡ ¹	
	5335 Dec 09 10:29	0°⊀		morning set	5336 Dec 06 18:12	7° ∡ 10'37	
morning set	5335 Dec 25 17:24	25° х 02'35					
-	5335 Dec 28 17:58	0° ට		superior conj	5336 Dec 19 06:48	28° х 18′36	-0°00'31
desc. node	5336 Jan 02 08:02	7° る 26'59		minimum elong	5336 Dec 19 06:44	28° ⊀ 18'23	0°00'29
				behind sun begin	5336 Dec 18 21:01	27° ∡ ³38'30	
superior conj	5336 Jan 09 06:31	18° ට 31'49	-0°47'00	behind sun end	5336 Dec 19 16:28	28° ₹ ¹58'10	
minimum elong	5336 Jan 09 00:43	18° る 08'55	0°46'12	desc. node	5336 Dec 19 05:05	28° х 11′33	
max. Earth dist.	5336 Jan 12 09:02	23° る 25'37	1.45209 AU		5336 Dec 20 07:37	0°ප	
	5336 Jan 16 13:45	0° ≈		max. Earth dist.	5336 Dec 25 03:09	7° る 45'12	1.44402 AU
evening rise	5336 Jan 25 13:20	13° ≈ 57'50		evening rise	5337 Jan 04 00:03	23° る 11'09	
	5336 Feb 04 23:16	0°) €			5337 Jan 08 11:05	0° ≈	
greatest brilliancy	5336 Feb 07 12:15	3° ¥ 50′13	-0.7m		5337 Jan 29 12:53	0° ∀	
evening max el	5336 Feb 19 10:34	19°) 45′14	19°36'47	evening max el	5337 Feb 01 12:12	3°) 19′16	20°38'27
asc. node	5336 Feb 23 01:24	22°) 46′30		asc. node	5337 Feb 08 22:27	8°) €05'13	
retrograde	5336 Feb 26 18:09	23° ¥ 58′12		retrograde	5337 Feb 09 16:29	8° ₩ 08'15	
evening set	5336 Mar 01 08:25	22°) 42′30		evening set	5337 Feb 13 15:38	6° ₩ 38'01	
inferior conj	5336 Mar 06 18:57	16°) 45′55	3°16'38	inferior conj	5337 Feb 19 00:01	0° ∺ 28'52	2°51'54
minimum elong	5336 Mar 06 17:11	16° ⊁ 51'46	3°16'23	minimum elong	5337 Feb 18 21:43	0°) 36′47	2°51'22
min. Earth dist.	5336 Mar 07 22:24	15° ∺ 15'17	0.66814 AU		5337 Feb 19 08:26	30° R ≈	
morning rise	5336 Mar 12 01:41	10°) 30′56		min. Earth dist.	5337 Feb 19 13:59	29° ≈ 40′59	0.67647 AU
direct	5336 Mar 18 04:02	7°) 47′53		morning rise	5337 Feb 24 03:35	24° ≈ 14'45	
desc. node	5336 Mar 30 07:18	14° ∺ 59'35		direct	5337 Mar 01 16:20	21° ≈ 47'12	
morning max el	5336 Mar 30 10:15	15° ∺ 07'02	25°37'44	morning max el	5337 Mar 12 18:58	28° ≈ 25'37	24°12'03
	5336 Apr 11 15:17	0 ° $\mathbf{\gamma}$			5337 Mar 14 07:04	0° ∀	
	5336 Apr 30 21:42	0°8		desc. node	5337 Mar 17 04:20	3° ∺ 16′21	
morning set	5336 May 05 14:56	8° 8 23'08			5337 Apr 05 09:03	0 ° $\mathbf{\gamma}$	
max. Earth dist.	5336 May 09 09:05	15° 8 22'39	1.35942 AU	morning set	5337 Apr 17 12:57	19° Ƴ 56'10	
				max. Earth dist.	5337 Apr 21 05:41	26° Y 27'30	1.37991 AU
superior conj	5336 May 15 03:07	26° 8 36'45			5337 Apr 23 04:35	9° 8	
minimum elong	5336 May 15 06:19	26° 8 52'51	0°57'00				
	5336 May 16 19:26	Π $^{\circ}0$		superior conj	5337 Apr 28 07:41	9° 8 36'12	
asc. node	5336 May 21 00:38	8° Ⅱ 37'09		minimum elong	5337 Apr 28 12:21	9° 8 58'32	1°25'42
evening rise	5336 May 23 03:58	12° Ⅱ 59'40		evening rise	5337 May 07 03:43	26° 8 55'00	
	5336 Jun 01 02:30	0 \circ \odot		asc. node	5337 May 07 21:41	28° 8 23'28	
evening max el	5336 Jun 09 21:20	11° © 53'23	20°01'03		5337 May 08 17:23	$\Pi^{\circ}0$	
retrograde	5336 Jun 20 06:31	16° © 58'23		evening max el	5337 May 23 16:38	23° Ⅱ 44′28	19°03'10
evening set	5336 Jun 22 04:28	16°548'45		retrograde	5337 Jun 01 10:12	28° Ⅱ 00'58	
desc. node	5336 Jun 26 06:31	15° © 30'54		evening set	5337 Jun 03 10:37	27° Ⅱ 48'14	
inferior conj	5336 Jul 01 04:51	12° 5 48'49		inferior conj	5337 Jun 11 16:59	23° Ⅲ 34'49	
minimum elong	5336 Jul 01 00:43	12° © 55'02	1°27'00	minimum elong	5337 Jun 11 18:00	23° II 33'03	0°25'01
min. Earth dist.	5336 Jul 03 01:45	11° 5 41'18	0.55186 AU	desc. node	5337 Jun 13 03:33	22° ∏ 34'49	
morning rise	5336 Jul 09 19:16	8° 5 29'09		min. Earth dist.	5337 Jun 14 17:04	21° Ⅱ 30'57	0.56483 AU
direct	5336 Jul 14 00:42	7° © 50'10		morning rise	5337 Jun 19 22:08	18° Ⅱ 39'21	

direct	5337 Jun 25 01:54	17° Ⅲ 36'43		morning rise	5338 May 31 16:26	29° 8 33'33	
morning max el	5337 Jul 09 08:13	24° ∏ 57'31	25°45'39	direct	5338 Jun 06 17:19	27° 8 58'26	
	5337 Jul 14 00:22	0°€			5338 Jun 13 18:41	$\Pi^{\circ}0$	
	5337 Aug 01 18:18	$0^{\circ}\Omega$		morning max el	5338 Jun 21 02:35	5° Ⅱ 41'19	27°02'07
asc. node	5337 Aug 03 20:56	4° Ω 16′11			5338 Jul 09 02:06	0°99	
morning set	5337 Aug 05 22:11	8° Ω 33'33		morning set	5338 Jul 21 07:33	23° © 16'11	
				asc. node	5338 Jul 21 17:58	24°5911'06	
superior conj	5337 Aug 12 20:29	23° Ω 39'17	1°21'28		5338 Jul 24 10:58	$0^{\circ}\Omega$	
minimum elong	5337 Aug 12 18:14	23° Ω 26'54	1°21'10				
max. Earth dist.	5337 Aug 13 18:44	25° Ω 41'38	1.32268 AU	superior conj	5338 Jul 28 08:17	8° £ 33'00	1°04'00
	5337 Aug 15 18:03	0° m		minimum elong	5338 Jul 28 06:02	8° Ω 20'37	1°03'37
evening rise	5337 Aug 19 20:57	8°Mp46'16		max. Earth dist.	5338 Jul 28 05:37	8° Ω 18′15	1.31930 AU
-	5337 Aug 31 00:36	0∘ ত		evening rise	5338 Aug 04 04:12	23° Ω 26′05	
desc. node	5337 Sep 09 02:49	14° £ 14'24		_	5338 Aug 07 08:21	o° mp	
evening max el	5337 Sep 20 17:01	28° ഫ 02'46	27°17'20		5338 Aug 25 02:45	0∘ ত	
C	5337 Sep 22 21:45	0°M.		desc. node	5338 Aug 26 23:49	2° ഫ 26'52	
retrograde	5337 Oct 04 13:07	5°M16'26		evening max el	5338 Sep 02 19:02	9° £ 59'54	26°34'28
evening set	5337 Oct 11 16:27	2°M55'03		retrograde	5338 Sep 16 17:30	17° ≏ 08'29	
Č	5337 Oct 15 10:30	30° ₹ Ω		evening set	5338 Sep 23 11:32	15° ≙ 14'19	
min. Earth dist.	5337 Oct 15 07:36	0°M.06'21	0.61836 AU	min. Earth dist.	5338 Sep 27 08:46		0.59787 AU
inferior conj	5337 Oct 18 07:50	27° £ 22'50		inferior conj	5338 Sep 30 14:28	10° ≙ 05'15	
minimum elong	5337 Oct 18 14:03		3°46'48	minimum elong	5338 Sep 30 20:23	9° £ 53'30	4°40'42
morning rise	5337 Oct 25 13:33	22° ჲ 22'57		morning rise	5338 Oct 08 07:19	5° £ 27'09	
direct	5337 Oct 27 21:12	21° £ 59'53		direct	5338 Oct 10 15:19	5° ₽ 07'21	
asc. node	5337 Oct 30 20:11	22° £ 38'47		asc. node	5338 Oct 17 17:13	8° £ 20'04	
morning max el	5337 Nov 03 19:44		17°52'57	morning max el	5338 Oct 18 06:53	8° £ 51'58	18°14'33
morning max or	5337 Nov 07 14:10	0°M.	1, 323,	morning max or	5338 Oct 31 23:23	0°M	10 1133
morning set	5337 Nov 19 15:23	20°M16'37		morning set	5338 Nov 03 03:03	4°ML03'29	
morning sec	5337 Nov 25 01:02	0° × 7		morning sec	23301101 03 03.03	. 110/03/29	
				superior conj	5338 Nov 12 12:07	21°MJ34'58	1°10'10
superior conj	5337 Nov 30 09:15	9° ∡ °21'33	0°39'51	minimum elong	5338 Nov 12 15:58	21°M52'30	1°09'42
minimum elong	5337 Nov 30 12:33	9° ∡ 135'43	0°39'24		5338 Nov 17 05:35	0° ∡ ¹	
desc. node	5337 Dec 06 02:06	18° ≯ 58'38		max. Earth dist.	5338 Nov 20 02:45	4° ₹ ¹57'41	1.41089 AU
max. Earth dist.	5337 Dec 07 17:19	21° х 39'47	1.42970 AU	desc. node	5338 Nov 22 23:06	9° ×7 44'37	
man. Darm dist.	5337 Dec 12 21:44	ිප 0°ප	1.129,0110	evening rise	5338 Nov 24 22:25	12° × 759'13	
evening rise	5337 Dec 14 14:36	2° る 40'55		evening rise	5338 Dec 05 19:46	0°ਰ	
evening rise	5338 Jan 01 22:29	0°≈			5338 Dec 28 11:09	0°≈	
evening max el	5338 Jan 15 08:28	16°≈55'09	21°51'16	evening max el	5338 Dec 29 00:22	0° ≈ 33'37	23°10'19
retrograde	5338 Jan 24 13:48	22°≈23'54	21 01 10	retrograde	5339 Jan 08 08:30	6° ≈ 40'57	23 10 17
asc. node	5338 Jan 26 19:27	21°≈57'21		evening set	5339 Jan 13 06:10	4° ≈ 39'44	
evening set	5338 Jan 28 23:25	20°≈38'23		asc. node	5339 Jan 13 16:28	4°≈17'12	
inferior conj	5338 Feb 03 07:33	14°≈19'44	2°18'05	use. Hour	5339 Jan 17 08:57	30°R₹	
minimum elong	5338 Feb 03 05:11			inferior conj	5339 Jan 18 15:36	28° ප 15'10	1°36'20
min. Earth dist.	5338 Feb 03 09:19	14°≈13'37	0.68070 AU	minimum elong	5339 Jan 18 13:38	28° පි 21'58	1°35'37
morning rise	5338 Feb 08 10:45	8°≈08'16		min. Earth dist.	5339 Jan 18 06:00	28°₹48'13	0.68106 AU
direct	5338 Feb 13 09:02	6° ≈ 01'31		morning rise	5339 Jan 23 21:00	22° る 07'58	
morning max el	5338 Feb 23 04:53	11°≈50'10	22°42'45	direct	5339 Jan 28 04:58	20°る24'08	
desc. node	5338 Mar 04 01:22	22° ≈ 20'39		morning max el	5339 Feb 05 19:43	25° පි 23'44	21°18'28
dose. Hode	5338 Mar 09 15:34	0°) €		morning mun vi	5339 Feb 09 22:44	0°≈	21 10 20
morning set	5338 Mar 29 08:56	0° Υ 13'15		desc. node	5339 Feb 18 22:23	11° ≈ 58'43	
morning sec	5338 Mar 29 05:43	0°Υ		door. node	5339 Mar 03 02:43	0° ∀	
max. Earth dist.	5338 Apr 03 01:19	8° Υ 04'23	1.40197 AU	morning set	5339 Mar 09 00:30	9° ₩ 10'41	
max. Earth dist.	2330 ripi 03 01.17	0 10.23	1.101)//110	max. Earth dist.	5339 Mar 16 02:59	20°) 36'31	1.42272 AU
superior conj	5338 Apr 10 20:17	21° Y 47'58	-1°50'47		5339 Mar 21 17:50	0° Υ	
minimum elong	5338 Apr 11 01:15	22° Υ 10'34			555) Wai 21 17.50	0 1	
minimum ciong	5338 Apr 15 06:57	0°8	1 30 20	superior conj	5339 Mar 23 11:52	2° Y ′59'47	-2°06'23
evening rise	5338 Apr 20 17:58	10° 8 19'03		minimum elong	5339 Mar 23 14:40	3°Υ11'50	
asc. node	5338 Apr 24 18:43	17° 8 53'34		evening rise	5339 Apr 03 18:47	23° Y '02'08	- 0011
abe. Houe	5338 May 01 21:38	0° Ⅱ		0 (Olimig 1150	5339 Apr 07 15:21	0° 8	
evening max el	5338 May 06 21:19	6° Ⅱ 12'50	18°25'38	asc. node	5339 Apr 07 15:21 5339 Apr 11 15:45	7° 8 01'02	
retrograde	5338 May 14 08:43	9° П 55'11	10 23 30	evening max el	5339 Apr 11 13:43 5339 Apr 20 07:41	19° 8 08'17	18°08'00
evening set	5338 May 14 08:43	9° Д 35'17		retrograde	5339 Apr 27 00:57	22° 8 33'14	10 00 00
inferior conj	5338 May 10 13.37 5338 May 24 02:26	9 П 3307 5° П 01'54	1°54'05	evening set	5339 Apr 29 15:04	22° 8 03'09	
minimum elong	5338 May 24 02:26 5338 May 24 05:46	3 П 01 34 4° П 55'08	1°53'04	inferior conj	5339 Apr 29 13.04 5339 May 06 08:22	17° 8 09'05	2°51'50
min. Earth dist.	5338 May 24 03:40 5338 May 27 12:41	2° Ⅱ 16'49	0.58407 AU	minimum elong	5339 May 06 08.22 5339 May 06 11:26	17° 8 01'50	2°51'12
mm. Lattii Uist.	5338 May 27 12.41 5338 May 30 21:05	30°R B	0.5040 / AU	min. Earth dist.	5339 May 00 11:20 5339 May 09 14:47	14° 8 06'03	0.60602 AU
desc. node	5338 May 31 00:34	29° 8 55'01		morning rise	5339 May 09 14.47 5339 May 13 05:33	11° 8 17'12	0.00002 AU
acse. Houc	5550 May 51 00.54	27 033 01		11101111115 1130	5557 May 15 05.55	1. 01/12	

desc. node	5339 May 17 21:36	9° 8 19'48		desc. node	5340 May 03 18:39	21° Y 26'27	
direct	5339 May 19 20:31	9° 8 08'46		morning max el	5340 May 15 10:09	29° Ƴ 09'54	27°50'47
morning max el	5339 Jun 03 03:30	17° 8 04'10	27°45'22		5340 May 16 05:49	8° 0	
	5339 Jun 13 20:11	$\Pi^{\circ}0$			5340 Jun 06 18:00	$\Pi^{\circ}0$	
	5339 Jul 01 16:47	0°€		morning set	5340 Jun 18 13:02	21° Ⅱ 54'37	
morning set	5339 Jul 05 13:13	7°\$345'24		-	5340 Jun 22 10:58	0° ©	
asc. node	5339 Jul 08 15:00	14° © 14'21		max. Earth dist.	5340 Jun 23 22:48	3°510'26	1.32516 AU
max. Earth dist.	5339 Jul 11 16:19	20° © 52'17	1.32007 AU	asc. node	5340 Jun 24 12:02	4° 5 21'22	
superior conj	5339 Jul 12 19:25	23° © 21'08	0°42'26	superior conj	5340 Jun 26 04:07	7° 9 57'52	0°17'19
minimum elong	5339 Jul 12 17:39	23°511'28	0°42'04	minimum elong	5340 Jun 26 03:18	7° © 53'27	0°17'07
	5339 Jul 15 19:51	$0^{\circ}\Omega$		evening rise	5340 Jul 03 02:29	22° © 59'39	
evening rise	5339 Jul 19 14:41	8° Ω 12'45			5340 Jul 06 11:10	$0^{\circ}\Omega$	
	5339 Jul 30 20:35	0° m			5340 Jul 25 11:40	0° m	
desc. node	5339 Aug 13 20:50	19° m 26'30		evening max el	5340 Jul 27 02:01	1° m 37'21	23°47'52
evening max el	5339 Aug 15 13:21	21°Mp07'55	25°21'06	desc. node	5340 Jul 30 17:52	4° Mp 44′21	
retrograde	5339 Aug 29 11:47	28° Mp 11'35		retrograde	5340 Aug 09 18:25	8° m 29'55	
evening set	5339 Sep 04 07:36	26° m 53'21		evening set	5340 Aug 14 03:53	7° m 47'22	
min. Earth dist.	5339 Sep 09 01:01	24° m 13'31	0.57759 AU	min. Earth dist.	5340 Aug 20 12:08	4° m 44'59	0.56046 AU
inferior conj	5339 Sep 12 02:24	22° m 07'49		inferior conj	5340 Aug 22 18:02	3° m/23'33	-5°11'28
minimum elong	5339 Sep 12 04:58	22° m 03'23		minimum elong	5340 Aug 22 14:18	3°m/29'12	
morning rise	5339 Sep 20 04:36	17° m 52'53		· ·	5340 Aug 29 07:41	30°R Ω	
direct	5339 Sep 22 16:41	17° m 33'59		morning rise	5340 Aug 31 03:12	29° Ω 27'45	
morning max el	5339 Oct 01 10:08	21° m 42'30	18°57'09	direct	5340 Sep 02 22:19	29° Ω 08'01	
asc. node	5339 Oct 04 14:15	25° m 13'48			5340 Sep 07 07:33	0° m	
	5339 Oct 07 23:11	0∘ ⊽		morning max el	5340 Sep 13 02:31	3° m 52'10	20°01'43
morning set	5339 Oct 18 00:48	18° 亞 19'00		asc. node	5340 Sep 20 11:18	13° Mp 04'12	20 01 .5
morning sec	5339 Oct 23 23:15	0°M		use. Houe	5340 Sep 29 19:03	0° ™	
	2007 000 20 20.10	0 110		morning set	5340 Oct 01 05:19	2° £ 53'04	
superior conj	5339 Oct 26 10:20	4°M45'13	1°30'04				
minimum elong	5339 Oct 26 13:11	4°M58'52	1°29'49	superior conj	5340 Oct 08 22:41	18° ≏ 36'36	1°40'40
max. Earth dist.	5339 Nov 02 08:30	17° M 34'17	1.38989 AU	minimum elong	5340 Oct 09 00:01	18° ≏ 43'14	1°40'37
evening rise	5339 Nov 06 05:01	24°M19'26	1.50707110	max. Earth dist.	5340 Oct 14 14:02	29° £ 36'25	1.36923 AU
desc. node	5339 Nov 09 20:06	0° ₹ 26'14		man. Bartir dist.	5340 Oct 14 19:01	0°M	1.50,25110
desc. node	5339 Nov 09 13:46	0° × 7		evening rise	5340 Oct 18 09:13	6°M38'27	
	5339 Nov 29 14:05	°5		desc. node	5340 Oct 26 17:07	20°M58'44	
evening max el	5339 Dec 11 13:42	14° ප 15'41	24°29'32	desc. node	5340 Nov 01 10:05	0° ⊼ ¹	
retrograde	5339 Dec 22 23:33	20° ප 555'53	2.2/32	evening max el	5340 Nov 23 02:10	27° х 59'09	25°42'06
evening set	5339 Dec 28 10:24	18° る 39'28		evening max er	5340 Nov 25 06:29	0°ਰ	23 12 00
asc. node	5339 Dec 20 10:21 5339 Dec 31 13:30	15° る 19'29		retrograde	5340 Dec 05 10:05	5° そ 02'51	
min. Earth dist.	5340 Jan 02 01:50		0.67776 AU	evening set	5340 Dec 11 10:25	2° ප 33'31	
inferior conj	5340 Jan 02 22:26	13° る 13'02	0°47'40	evening sec	5340 Dec 13 23:42	30°R. ₹	
minimum elong	5340 Jan 02 21:19	12°る15°62	0°47'14	min. Earth dist.	5340 Dec 15 18:33	•	0.67086 AU
morning rise	5340 Jan 08 08:21	6° る 11'57	0 1/11	inferior conj	5340 Dec 17 02:13	26° ₹ 09'51	
direct	5340 Jan 12 03:02	4° る 50'15		minimum elong	5340 Dec 17 02:24	26°× 7 09'17	0°06'59
morning max el	5340 Jan 19 18:15	9° ප 09'45	20°05'12	transit middle	5340 Dec 17 02:24	26° х 0917	
morning max er	5340 Feb 04 10:46	0°≈	20 03 12	transit begin	5340 Dec 17 02:24 5340 Dec 16 23:52	26° 🖈 17'22	0 0037
desc. node	5340 Feb 05 19:24	2°≈01'30		transit end	5340 Dec 17 04:57	26°×101'12	
morning set	5340 Feb 15 21:51	17°≈23'17		asc. node	5340 Dec 17 10:33	25° × 43'26	
morning sec	5340 Feb 23 23:36	0° ∀		morning rise	5340 Dec 22 18:49	20°×16'55	
max. Earth dist.	5340 Feb 26 12:23		1.43938 AU	direct	5340 Dec 26 01:47	19°×714'43	
max. Earth dist.	3340100 20 12.23	4 7(0143	1.43/30/10	morning max el	5341 Jan 02 00:36	23° х 1443	19°06'21
superior conj	5340 Mar 03 02:24	13°) €03'38	-2°07'34	morning max ci	5341 Jan 07 18:11	23×03+4	17 0021
minimum elong	5340 Mar 02 23:45	12° H 52'48		greatest brilliancy	5341 Jan 16 14:17	12° る 57'54	-0.8m
minimum clong	5340 Mar 13 05:01	0° Υ	2 07 30	desc. node	5341 Jan 22 16:25	12 3 3734 22° る 21'44	-0.8111
evening rise	5340 Mar 16 01:49	4°Υ55'32		morning set	5341 Jan 25 00:53	26°පි01'02	
asc. node	5340 Mar 28 12:46	25° Υ 38'44		morning set	5341 Jan 27 14:18	20 ℃01 02 0°≈	
use. Houe	5340 Mar 31 17:28	0° 8		max. Earth dist.	5341 Jan 27 14.18 5341 Feb 08 03:32	0 ≈ 18°≈03'33	1.44994 AU
evening max el	5340 Mar 31 17:28 5340 Apr 02 20:27	2° 8 22'18	18°09'39	max. Eattii uist.	JJT1 100 00 03.32	10 ~03 33	1. 77 224 AU
•	-	5° 8 44'58	10 07 37	superior coni	53/1 Eab 10 17:07	22°≈06'27	19/0127
retrograde	5340 Apr 12 03:00	5° 8 03'23		superior conj	5341 Feb 10 17:07		
evening set	5340 Apr 12 03:00	_	2022127	minimum elong	5341 Feb 10 08:40	21°≈33'02	1 483/
inferior conj	5340 Apr 18 07:10	29° Υ 49'40	3°22'36	avanii-	5341 Feb 15 16:11	0°) 15°¥52!02	
minimum elong	5340 Apr 18 08:48	29° Y 45'18	3°22'25	evening rise	5341 Feb 25 10:58	15° ¥ 52'02 0° ⋎	
min Footh diet	5340 Apr 21 01:41	30°₹ Υ 26° Υ 52'45	0.62750 411	aca nodo	5341 Mar 06 02:14	13° Υ 37'27	
min. Earth dist.	5340 Apr 21 01:41		0.62750 AU	asc. node	5341 Mar 15 09:49	13° γ '3/'2/ 15° Υ 47'45	10020150
morning rise	5340 Apr 24 13:14	23° Υ 43'56 21° Υ 09'25		evening max el	5341 Mar 17 08:44	15° γ '4/'45 19° Υ 21'16	18°29'58
direct	5340 May 01 09:30	21 1 09 25		retrograde	5341 Mar 23 21:05	19. 1 21.10	

	5341 Mar 26 23:49	18° Ƴ 27'10		ratra ara da	5242 Mar 07 16:41	3° Y 14'21	
evening set		18° Y 55'33	2022121	retrograde	5342 Mar 07 16:41	2°Υ06'50	
inferior conj	5341 Apr 01 18:41			evening set	5342 Mar 11 02:26		
minimum elong	5341 Apr 01 18:43	12° Υ 55'27	3°32'20		5342 Mar 13 13:09	30°₽)	2026105
min. Earth dist.	5341 Apr 03 22:07	10° Y 23'41	0.64633 AU	inferior conj	5342 Mar 16 15:15	26°) 19'01	3°26'05
morning rise	5341 Apr 07 12:54	6° Y 43′08		minimum elong	5342 Mar 16 14:00	26°) €22'59	3°25'57
direct	5341 Apr 14 06:37	3° Y 54'53		min. Earth dist.	5342 Mar 18 03:14	24°) €24'08	0.66139 AU
desc. node	5341 Apr 20 15:41	5° Y 57′28		morning rise	5342 Mar 22 01:12	20° ∺ 04'18	
morning max el	5341 Apr 27 19:50	11° Ƴ 50′28	27°20'33	direct	5342 Mar 28 10:27	17° ℋ 15'47	
	5341 May 12 06:40	$_{0\circ}$ 8		desc. node	5342 Apr 07 12:43	22° 升 18′26	
	5341 May 30 06:13	Π $^{\circ}0$		morning max el	5342 Apr 10 05:45	24°) 52′31	26°21'19
morning set	5341 Jun 02 04:21	5° Ⅱ 36′01			5342 Apr 14 21:11	0 ° Υ	
max. Earth dist.	5341 Jun 06 21:06	15° Ⅲ 01'49	1.33479 AU		5342 May 05 17:41	0°8	
				morning set	5342 May 16 07:28	18° 8 37'54	
superior conj	5341 Jun 10 08:28	22° Ⅱ 17'36	-0°10'37	max. Earth dist.	5342 May 20 08:12	26° 8 21'28	1.34915 AU
minimum elong	5341 Jun 10 09:01	22° II 20'31	0°10'32		5342 May 22 04:23	$\Pi^{\circ}0$	
behind sun begin	5341 Jun 10 04:50	21° Ⅱ 58'24			,		
behind sun end	5341 Jun 10 13:11	22° I I42'39		superior conj	5342 May 25 05:59	6° Ⅱ 12'27	-0°40'18
asc. node	5341 Jun 11 09:05	24° II 28'21		minimum elong	5342 May 25 08:12	6° ∏ 23'48	
asc. node	5341 Jun 13 23:08	0°95		asc. node	5342 May 29 06:07	14° П 30'31	0 3732
avanina riaa	5341 Jun 17 13:42	0 €9 7°9541'00		evening rise	5342 Jun 01 22:18	22° I 109'34	
evening rise)°Ω		evening rise		22 п 09 34 0° ©	
	5341 Jun 29 09:19		22010120		5342 Jun 05 19:17		20042125
evening max el	5341 Jul 08 16:31	11° £ 59′23	22°10'38	evening max el	5342 Jun 20 16:34	22°545'35	20°43'25
desc. node	5341 Jul 17 14:54	17° Ω 46'35		retrograde	5342 Jul 02 01:30	28° © 20'25	
retrograde	5341 Jul 21 13:12	18° Ω 22'31		evening set	5342 Jul 04 03:17	28° © 10'02	
evening set	5341 Jul 24 11:24	18° Ω 03'31		desc. node	5342 Jul 04 11:57	28° © 06'11	
min. Earth dist.	5341 Aug 01 22:15	14° Ω 24'46	0.54990 AU	inferior conj	5342 Jul 13 10:08	24° © 13'06	-2°37'05
inferior conj	5341 Aug 02 17:01	13° Ω 58′20	-4°17'39	minimum elong	5342 Jul 13 02:57	24° © 23'20	2°34'37
minimum elong	5341 Aug 02 08:25	14° Ω 10′28	4°15'37	min. Earth dist.	5342 Jul 14 09:19	23° © 39'58	0.54843 AU
morning rise	5341 Aug 11 07:09	10° Ω 08'24		morning rise	5342 Jul 22 02:13	20° © 09'41	
direct	5341 Aug 14 11:54	9° Ω 45'33		direct	5342 Jul 25 21:15	19° 5 38'44	
morning max el	5341 Aug 26 06:47	15° Ω 16′05	21°26'57	morning max el	5342 Aug 08 00:49	25°\$58'16	23°07'16
•	5341 Sep 06 09:34	0° m		•	5342 Aug 11 20:33	$0^{\circ}\Omega$	
asc. node	5341 Sep 07 08:22	1°m/38'17		asc. node	5342 Aug 25 05:24	20° Ω 44'49	
morning set	5341 Sep 15 14:08	17° m) 38'56			5342 Aug 29 20:32	0° m)	
	5341 Sep 21 11:09	0∘ ಹ		morning set	5342 Aug 31 01:17	2° m/30'33	
		• —			22 12 13 18 2 1 1 1 1 1 1	,,	
superior conj	5341 Sep 22 21:01	2° £ 56'57	1°43'18	superior conj	5342 Sep 07 02:03	17° m 35'59	1°39'15
minimum elong	5341 Sep 22 20:52	2° ⊆ 56'08	1°43'19	minimum elong	5342 Sep 07 00:45	17° m) 28'57	1°39'11
minimum clong			1 43 17	minimum ciong	3342 Scp 07 00.43	1/ 11/203/	1 39 11
may Forth dist	1		1 25112 ATT	may Earth dist	5242 San 00 20:50	220 m 20120	1 22677 AII
max. Earth dist.	5341 Sep 27 01:00	11° ≏ 27'59	1.35112 AU	max. Earth dist.	5342 Sep	23° Mp 30'28	1.33677 AU
max. Earth dist. evening rise	5341 Sep 27 01:00 5341 Oct 01 07:15	11° Ω 27'59 19° Ω 47'01	1.35112 AU		5342 Sep 13 00:17	0∘ ⊽	1.33677 AU
evening rise	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09	11° £ 27'59 19° £ 47'01 0° M	1.35112 AU	max. Earth dist.	5342 Sep 13 00:17 5342 Sep 14 18:51	0° ჲ 3° ჲ 33'29	1.33677 AU
	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09	11° Ω 27'59 19° Ω 47'01 0° M 11° M 17'02	1.35112 AU	evening rise	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08	0° ⊆ 3° ⊆ 33'29 0° M	1.33677 AU
evening rise desc. node	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41	11° £ 27'59 19° £ 47'01 0° M 11° M 17'02 0° ₹		evening rise desc. node	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11	0° ♀ 3° ♀ 33'29 0°M 1°M14'27	
evening rise desc. node evening max el	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56	11° £ 27'59 19° £ 47'01 0° M 11° M 17'02 0° ₹ 11° ₹ 39'53	1.35112 AU 26°40'37	evening rise	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33	0° <u>Ω</u> 3° <u>Ω</u> 33'29 0° M. 1° M.14'27 25° M.08'27	
evening rise desc. node evening max el retrograde	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25	11° £ 27'59 19° £ 47'01 0° M 11° M 17'02 0° ⊀ 11° ⊀ 39'53 18° ⊀ 55'35		evening rise desc. node evening max el	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08	0° <u>Ω</u> 3° <u>Ω</u> 33'29 0° M 1° M 14'27 25° M 08'27 0° X '	
evening rise desc. node evening max el retrograde evening set	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17	11° £ 27'59 19° £ 47'01 0° M 11° M 17'02 0° ₹ 11° ₹ 39'53		evening rise desc. node	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44	0° Ω 3° Ω 33'29 0° M 1° M 14'27 25° M 08'27 0° ₹ 2° ₹ 26'35	
evening rise desc. node evening max el retrograde	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25	11° £ 27'59 19° £ 47'01 0° M 11° M 17'02 0° ⊀ 11° ⊀ 39'53 18° ⊀ 55'35		evening rise desc. node evening max el	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08	0° <u>Ω</u> 3° <u>Ω</u> 33'29 0° M 1° M 14'27 25° M 08'27 0° X '	
evening rise desc. node evening max el retrograde evening set	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58	11° ១ 27'59 19° ១ 47'01 0° ៣ 11° ៣ 17'02 0° ४ 11° ४ 39'53 18° ४ 35'35	26°40'37 0.66045 AU	evening rise desc. node evening max el	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44	0° Ω 3° Ω 33'29 0° M 1° M 14'27 25° M 08'27 0° ₹ 2° ₹ 26'35	
evening rise desc. node evening max el retrograde evening set min. Earth dist.	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50	11° \$\Delta 27'59 19° \$\Delta 47'01 0° \$\mathbb{M}\$ 11° \$\mathbb{M}\$17'02 0° \$\delta'\$ 11° \$\delta 39'53 18° \$\delta 55'35 16° \$\delta 17'50 12° \$\delta 09'58	26°40'37 0.66045 AU	evening rise desc. node evening max el retrograde	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55	0° Ω 3° Ω 33'29 0° M 1° M 14'27 25° M 08'27 0° 🖈 2° 🖈 26'35 30° RM	
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58	11° \$\Delta 27'59 19° \$\Delta 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m} 17'02 0° \$\delta'\$ 11° \$\delta 39'53 18° \$\delta' 55'35 16° \$\delta' 17'50 12° \$\delta' 09'58 10° \$\delta' 02'09	26°40'37 0.66045 AU -1°06'49	evening rise desc. node evening max el retrograde evening set	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40	0° \(\Omega\) 3° \(\Omega\) 33'29 0° \(\mathbb{M}\) 1° \(\mathbb{M}\) 14'27 25° \(\mathbb{M}\) 08'27 0° \(\struct \) 2° \(\struct \) 26'35 30° \(\mathbb{M}\) 29° \(\mathbb{M}\) 47'20	27°17'42 0.64657 AU
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\stacksquare{\pi}\$ 11° \$\tau 39'53 18° \$\tau 55'35 16° \$\tau 17'50 12° \$\tau 09'58 10° \$\tau 02'09 9° \$\tau 56'36	26°40'37 0.66045 AU -1°06'49	evening rise desc. node evening max el retrograde evening set min. Earth dist.	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23	0° \(\oldsymbol{\Omega}\) 3° \(\oldsymbol{\Omega}\) 3° \(\oldsymbol{\Omega}\) 3° \(\oldsymbol{\Omega}\) 1° \(\oldsymbol{\Omega}\) 2° \(\structure{\Omega}\) 2° \(\structure{\Omega}\) 2° \(\oldsymbol{\Omega}\) 14'01	27°17'42 0.64657 AU -2°09'52
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\stacksquare{A}\$ 11° \$\tilde{A}\$ 39'53 18° \$\tilde{A}\$ 55'35 16° \$\tilde{A}\$ 17'50 12° \$\tilde{A}\$ 09'58 10° \$\tilde{A}\$ 02'09 9° \$\tilde{A}\$ 56'36 6° \$\tilde{A}\$ 25'46	26°40'37 0.66045 AU -1°06'49	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹26'35 30° R.M. 29° M.47'20 26° M.14'01 23° M.45'04	27°17'42 0.64657 AU -2°09'52
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{M}\$ 11° \$\mathbb{M}\$ 17'02 0° \$\stacksquare{A}\$ 11° \$\tilde{A}\$ 39'53 18° \$\tilde{A}\$ 55'35 16° \$\tilde{A}\$ 17'50 12° \$\tilde{A}\$ 02'09 9° \$\tilde{A}\$ 56'36 6° \$\tilde{A}\$ 25'46 4° \$\tilde{A}\$ 19'51	26°40'37 0.66045 AU -1°06'49	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11	0° Ω 3° Ω 33'29 0° M. 1° M.14'27 25° M.08'27 0° ¾ 2° ¾ 26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30	27°17'42 0.64657 AU -2°09'52
evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$17'02 0° \$\stacksquare{\pi}\$ 11° \$\tilde{\pi}\$39'53 18° \$\tilde{\pi}\$55'35 16° \$\tilde{\pi}\$17'50 12° \$\tilde{\pi}\$09'58 10° \$\tilde{\pi}\$02'09 9° \$\tilde{\pi}\$56'36 6° \$\tilde{\pi}\$25'46 4° \$\tilde{\pi}\$19'51 3° \$\tilde{\pi}\$33'24 7° \$\tilde{\pi}\$06'57	26°40'37 0.66045 AU -1°06'49 1°06'00	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39	0° Ω 3° Ω 33'29 0° M 1° M 14'27 25° M 08'27 0° 🖈 2° 🖈 26'35 30° R M 29° M 47'20 26° M 14'01 23° M 45'04 23° M 34'48 18° M 16'30 18° M 15'41	27°17'42 0.64657 AU -2°09'52
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	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03	11° \$\Omega 27'59 19° \$\Omega 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathscr{n}\$ 11° \$\mathscr{n}\$ 39'53 18° \$\mathscr{n}\$ 55'35 16° \$\mathscr{n}\$ 17'50 12° \$\mathscr{n}\$ 09'58 10° \$\mathscr{n}\$ 02'09 9° \$\mathscr{n}\$ 56'36 6° \$\mathscr{n}\$ 25'46 4° \$\mathscr{n}\$ 19'51 3° \$\mathscr{n}\$ 33'24 7° \$\mathscr{n}\$ 06'57 0° \$\overline{\omega}\$	26°40'37 0.66045 AU -1°06'49 1°06'00	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52	0° \(\Omega\) 3° \(\Omega\) 33'29 0° \(\mathbb{M}\) 1° \(\mathbb{M}\) 14'27 25° \(\mathbb{M}\) 08'27 0° \(\mathbb{A}'\) 2° \(\mathbb{A}'\) 26'35 30° \(\mathbb{M}\) 29° \(\mathbb{M}\) 47'20 26° \(\mathbb{M}\) 14'01 23° \(\mathbb{M}\) 45'04 23° \(\mathbb{M}\) 30' 448 18° \(\mathbb{M}\) 15'41 17° \(\mathbb{M}\) 15'52	27°17'42 0.64657 AU -2°09'52 2°08'21
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	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 05 05:29	11° \$\Omega 27'59 19° \$\Omega 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 39'53 18° \$\mathbb{m}\$ 55'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 58'38	26°40'37 0.66045 AU -1°06'49 1°06'00	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 30 05:15	0° \(\Omega\) 3° \(\Omega\) 33'29 0° \(\mathbb{M}\) 1° \(\mathbb{M}\) 14'27 25° \(\mathbb{M}\) 08'27 0° \(\mathbb{A}'\) 2° \(\mathbb{A}'\) 26'35 30° \(\mathbb{M}\) 29° \(\mathbb{M}\) 47'20 26° \(\mathbb{M}\) 14'01 23° \(\mathbb{M}\) 34'48 18° \(\mathbb{M}\) 15'41 17° \(\mathbb{M}\) 15'22 21° \(\mathbb{M}\) 07'23	27°17'42 0.64657 AU -2°09'52
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	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 05 05:29 5342 Jan 09 13:25	11° \$\Omega 27'59 19° \$\Omega 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 39'53 18° \$\mathbb{m}\$ 55'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 58'38 12° \$\mathbb{G} 54'22	26°40'37 0.66045 AU -1°06'49 1°06'00	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹'26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹	27°17'42 0.64657 AU -2°09'52 2°08'21
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	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 05 05:29	11° \$\Omega 27'59 19° \$\Omega 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 39'53 18° \$\mathbb{m}\$ 55'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 58'38	26°40'37 0.66045 AU -1°06'49 1°06'00	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹'26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹' 17° ₹'24'24	27°17'42 0.64657 AU -2°09'52 2°08'21
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	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\frac{1}{2}\$ 11° \$\tilde{3}\$ 39'53 18° \$\tilde{3}\$ 55'35 16° \$\tilde{3}\$ 17'50 12° \$\tilde{3}\$ 09'58 10° \$\tilde{3}\$ 02'09 9° \$\tilde{3}\$ 56'36 6° \$\tilde{3}\$ 25'46 4° \$\tilde{3}\$ 19'51 3° \$\tilde{3}\$ 33'24 7° \$\tilde{3}\$ 06'57 0° \$\tilde{5}\$ 58'38 12° \$\tilde{5}\$ 54'22 0° \$\infty\$	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹ 17° ₹24'24 0° ₹	27°17'42 0.64657 AU -2°09'52 2°08'21
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 superior conj	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54	11° \$\to 27'59 19° \$\to 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\fo 20'09 12° \$\to 90'58 10° \$\fo 90'09 9° \$\fo 56'36 6° \$\fo 25'46 4° \$\fo 19'51 3° \$\fo 33'24 7° \$\fo 06'57 0° \$\fo 50'58'38 12° \$\fo 54'22 0° \$\implies 0° \$\implies 44'16	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 08 13:40 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹'26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹' 17° ₹'24'24	27°17'42 0.64657 AU -2°09'52 2°08'21
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 superior conj minimum elong	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54	11° \$\to 27'59 19° \$\to 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\stack** 11° \$\tau 39'53 18° \$\stack** 55'35 16° \$\tau 17'50 12° \$\tau 09'58 10° \$\tau 02'09 9° \$\tau 56'36 6° \$\tau 25'46 4° \$\tau 19'51 3° \$\tau 33'24 7° \$\tau 06'57 0° \$\tau 558'38 12° \$\tau 554'22 0° \$\implies 0° \$\implies 44'16 0° \$\implies 10'41	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 27 10:26	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ⊀ 2° ₹26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹ 17° ₹24'24 0° ₹ 3° ₹335'40	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40
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 superior conj minimum elong max. Earth dist.	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Jan 21 22:04	11° \$\to 27'59 19° \$\to 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\stack** 11° \$\tau 39'53 18° \$\stack** 55'35 16° \$\stack** 17'50 12° \$\tau 09'58 10° \$\tau 02'09 9° \$\tau 56'36 6° \$\stack** 25'46 4° \$\tau 19'51 3° \$\tau 33'24 7° \$\tau 06'57 0° \$\tau 558'38 12° \$\tau 554'22 0° \$\implies 0° \$\implies 44'16 0° \$\implies 10'41 2° \$\implies 25'42	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 25 05:36 5342 Dec 27 10:26	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ⊀ 2° ₹26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹ 17° ₹24'24 0° ₹ 3° ₹35'40 9° ₹553'02	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40
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 superior conj minimum elong	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Jan 21 22:04 5342 Feb 05 20:49	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\stack** 11° \$\tilde{X}\$ 39'53 18° \$\tilde{X}\$ 55'35 16° \$\tilde{X}\$ 17'50 12° \$\tilde{X}\$ 09'58 10° \$\tilde{X}\$ 02'09 9° \$\tilde{X}\$ 56'36 6° \$\tilde{X}\$ 25'46 4° \$\tilde{X}\$ 19'51 3° \$\tilde{X}\$ 33'24 7° \$\tilde{X}\$ 06'57 0° \$\tilde{S}\$ 58'38 12° \$\tilde{S}\$ 58'38 12° \$\tilde{S}\$ 54'22 0° \$\implies\$ 0° \$\implies\$ 44'16 0° \$\implies\$ 10'41 2° \$\implies\$ 25'42 25° \$\implies\$ 52'17	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36 5342 Dec 27 10:26	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹ 17° ₹24'24 0° ₹ 3° ₹35'40 9° ₹553'02 9° ₹540'01	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40 -0°26'59 0°26'30
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 superior conj minimum elong max. Earth dist. evening rise	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Jan 21 22:04 5342 Feb 05 20:49 5342 Feb 08 11:43	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 25'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 558'38 12° \$\mathbb{m}\$ 58'38 12° \$\mathbb{m}\$ 54'22 0° \$\infty\$ 0° \$\infty\$ 10'41 2° \$\infty\$ 25'42 25° \$\infty\$ 52'17 0° \$\mathbb{m}\$	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08 1.45342 AU	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36 5342 Dec 31 07:58 5342 Dec 31 04:43 5343 Jan 04 17:30	0° Ω 3° Ω 33'29 0° M 1° M 14'27 25° M 08'27 0° % 2° % 26'35 30° R M 29° M 47'20 26° M 14'01 23° M 45'04 23° M 34'48 18° M 16'30 18° M 15'41 17° M 41'52 21° M 07'23 0° % 17° % 24'24 0° ♂ 3° ♂ 35'40 9° ♂ 53'02 9° ♂ 40'01 16° ♂ 52'34	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40
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 superior conj minimum elong max. Earth dist.	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 05 05:29 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Jan 20 11:38 5342 Feb 05 20:49 5342 Feb 08 11:43 5342 Feb 16 04:38	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 5° \$\mathbb{m}\$ 58'38 12° \$\mathbb{m}\$ 54'22 0° \$\infty\$ 0° \$\infty\$ 10'41 2° \$\infty\$ 25'42 25° \$\infty\$ 52'17 0° \$\mathbb{m}\$ 12° \$\mathbb{m}\$ 04'16	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08	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.	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36 5342 Dec 27 10:26	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ₹ 2° ₹26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹ 17° ₹24'24 0° ₹ 3° ₹35'40 9° ₹553'02 9° ₹540'01	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40 -0°26'59 0°26'30
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 superior conj minimum elong max. Earth dist. evening rise	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Jan 21 22:04 5342 Feb 05 20:49 5342 Feb 08 11:43	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 25'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 558'38 12° \$\mathbb{m}\$ 58'22 0° \$\infty\$ 0° \$\infty\$ 10'41 2° \$\infty\$ 25'42 25° \$\infty\$ 52'17 0° \$\mathbb{m}\$ 12° \$\mathbb{m}\$ 04'16 29° \$\mathbb{m}\$ 18'45	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08 1.45342 AU	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36 5342 Dec 31 07:58 5342 Dec 31 04:43 5343 Jan 04 17:30	0° Ω 3° Ω 33'29 0° M 1° M 14'27 25° M 08'27 0° % 2° % 26'35 30° R M 29° M 47'20 26° M 14'01 23° M 45'04 23° M 34'48 18° M 16'30 18° M 15'41 17° M 41'52 21° M 07'23 0° % 17° % 24'24 0° ♂ 3° ♂ 35'40 9° ♂ 53'02 9° ♂ 40'01 16° ♂ 52'34	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40 -0°26'59 0°26'30
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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 05 05:29 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Jan 20 11:38 5342 Feb 05 20:49 5342 Feb 08 11:43 5342 Feb 16 04:38	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 25'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 58'38 12° \$\mathbb{m}\$ 58'22 0° \$\infty\$ 0° \$\infty\$ 12'2 25° \$\infty\$ 52'17 0° \$\mathbb{m}\$ 12° \$\mathbb{m}\$ 04'16 29° \$\mathbb{m}\$ 18'45 0° \$\mathbb{m}\$	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08 1.45342 AU -0.8m	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.	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36 5342 Dec 31 07:58 5342 Dec 31 07:58 5343 Jan 04 17:30 5343 Jan 13 03:09	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° \$\frac{1}{2}\$ 2° \$\frac{1}{2}26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.15'41 17° M.41'52 21° M.07'23 0° \$\frac{1}{2}\$ 17° \$\frac{1}{2}24'24 0° \$\frac{1}{3}35'40 9° \$\frac{1}{3}5'23'4 0° \$\frac{1}{3}5'23'4 0° \$\frac{1}{3}5'23'4 0° \$\frac{1}{3}5'23'4 0° \$\frac{1}{3}5'23'4	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40 -0°26'59 0°26'30 1.44951 AU
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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	5341 Sep 27 01:00 5341 Oct 01 07:15 5341 Oct 06 21:09 5341 Oct 13 14:09 5341 Oct 26 10:41 5341 Nov 05 14:56 5341 Nov 18 15:25 5341 Nov 25 04:17 5341 Nov 29 05:50 5341 Dec 01 00:58 5341 Dec 01 02:50 5341 Dec 04 07:37 5341 Dec 07 02:12 5341 Dec 09 23:30 5341 Dec 16 13:07 5342 Jan 01 12:03 5342 Jan 05 05:29 5342 Jan 09 13:25 5342 Jan 20 08:54 5342 Jan 20 08:54 5342 Jan 20 20:11 5342 Jan 20 11:38 5342 Feb 05 20:49 5342 Feb 08 11:43 5342 Feb 16 04:38 5342 Feb 28 18:10	11° \$\Pi 27'59 19° \$\Pi 47'01 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'02 0° \$\mathbb{m}\$ 11° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 25'35 16° \$\mathbb{m}\$ 17'50 12° \$\mathbb{m}\$ 02'09 9° \$\mathbb{m}\$ 56'36 6° \$\mathbb{m}\$ 25'46 4° \$\mathbb{m}\$ 19'51 3° \$\mathbb{m}\$ 33'24 7° \$\mathbb{m}\$ 06'57 0° \$\mathbb{m}\$ 558'38 12° \$\mathbb{m}\$ 58'22 0° \$\infty\$ 0° \$\infty\$ 10'41 2° \$\infty\$ 25'42 25° \$\infty\$ 52'17 0° \$\mathbb{m}\$ 12° \$\mathbb{m}\$ 04'16 29° \$\mathbb{m}\$ 18'45	26°40'37 0.66045 AU -1°06'49 1°06'00 18°23'32 -1°13'09 1°12'08 1.45342 AU -0.8m	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	5342 Sep 13 00:17 5342 Sep 14 18:51 5342 Sep 29 16:08 5342 Sep 30 11:11 5342 Oct 19 03:33 5342 Oct 25 06:08 5342 Nov 01 14:44 5342 Nov 08 06:55 5342 Nov 12 09:23 5342 Nov 14 16:23 5342 Nov 14 20:11 5342 Nov 21 03:55 5342 Nov 21 04:39 5342 Nov 23 17:52 5342 Nov 23 17:52 5342 Nov 30 05:15 5342 Dec 07 00:41 5342 Dec 17 15:37 5342 Dec 25 05:36 5342 Dec 31 07:58 5342 Dec 31 07:58 5343 Jan 04 17:30 5343 Jan 13 03:09 5343 Jan 16 12:34	0° £ 3° £33'29 0° M. 1° M.14'27 25° M.08'27 0° ⊀ 2° ₹26'35 30° RM. 29° M.47'20 26° M.14'01 23° M.45'04 23° M.34'48 18° M.16'30 18° M.15'41 17° M.41'52 21° M.07'23 0° ₹ 17° ₹24'24 0° ♂ 3° ♂35'40 9° ♂53'02 9° ♂40'01 16° ♂52'34 0° ≈ 5° ≈ 14'12	27°17'42 0.64657 AU -2°09'52 2°08'21 17°57'40 -0°26'59 0°26'30 1.44951 AU

	5343 Feb 11 23:01	120 V 52120	20001121		5244 I 20 02:25	0°) {	
evening max el		12°) 52′29	20 01 31	. 1	5344 Jan 30 02:25		
asc. node	5343 Feb 17 03:55	16°) (47′50		retrograde	5344 Feb 03 12:39	1°) 32′17	
retrograde	5343 Feb 19 14:36	17°) 19'34		asc. node	5344 Feb 04 00:57	1°) € 30'53	
evening set	5343 Feb 23 08:32	15°) 57'44		evening set	5344 Feb 07 16:10	29° ≈ 55'24	
inferior conj	5343 Feb 28 17:54	9°) 55'43			5344 Feb 07 13:48	30°R ≈	
minimum elong	5343 Feb 28 15:51	10° 米 02′38	3°06'58	inferior conj	5344 Feb 13 00:14	23° ≈ 41'45	
min. Earth dist.	5343 Mar 01 15:28	8°) 43′12	0.67223 AU	minimum elong	5344 Feb 12 21:50	23° ≈ 50′01	
morning rise	5343 Mar 05 22:57	3°) 41′07		min. Earth dist.	5344 Feb 13 08:47	23° ≈ 12'10	0.67880 AU
direct	5343 Mar 11 19:51	1°) €03'39		morning rise	5344 Feb 18 03:20	17° ≈ 28'49	
morning max el	5343 Mar 23 14:39	8°) €06'23	25°02'23	direct	5344 Feb 23 09:58	15° ≈ 09'52	
desc. node	5343 Mar 25 09:43	9° ⊁ 59'34		morning max el	5344 Mar 04 23:30	21° ≈ 27′03	23°34'00
	5343 Apr 09 18:05	0° Y		desc. node	5344 Mar 11 06:44	28° ≈ 37'56	
	5343 Apr 28 07:06	0° ႘			5344 Mar 12 08:47	0° ∀	
morning set	5343 Apr 28 17:42	0° 8 47'16			5344 Apr 02 00:48	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	5343 May 02 08:50	7° 8 23'41	1.36783 AU	morning set	5344 Apr 09 05:14	11° Y '48'45	
	•			max. Earth dist.	5344 Apr 13 04:29	18° Ƴ 39'36	1.38929 AU
superior conj	5343 May 08 17:47	19° 8 34'42	-1°10'05		5344 Apr 19 11:12	0° ႘	
minimum elong	5343 May 08 21:41	19° 8 53'53			1		
8	5343 May 13 22:56	0°П		superior conj	5344 Apr 20 16:04	2° 8 14'35	-1°37'29
asc. node	5343 May 16 03:10	4°∏23'52		minimum elong	5344 Apr 20 21:05	2° 8 38'03	
evening rise	5343 May 17 02:02	6° П 19'05		evening rise	5344 Apr 29 22:08	20° 8 01'52	1 30 33
evening rise	5343 May 30 13:35	0°95		asc. node	5344 May 02 00:12	24° 8 03'46	
	•		10022154	asc. node	,	0°Ⅱ	
evening max el	5343 Jun 03 05:05	4°9512'08	19°33'54		5344 May 05 03:51		10044142
retrograde	5343 Jun 12 20:19	8°954'48		evening max el	5344 May 16 04:41	16° Ⅱ 19'15	18°44'42
evening set	5343 Jun 14 18:34	8°5544'19		retrograde	5344 May 24 08:04	20° Ⅱ 19'39	
desc. node	5343 Jun 21 08:59	5° © 58'39		evening set	5344 May 26 11:11	20° ∏ 04'12	
inferior conj	5343 Jun 23 11:58	4° 5 39'42		inferior conj	5344 Jun 03 08:54	15° ∏ 42'20	1°06'48
minimum elong	5343 Jun 23 10:15	4° 5 542'26	0°37'31	minimum elong	5344 Jun 03 11:18	15° ∏ 37'53	1°05'58
min. Earth dist.	5343 Jun 25 22:24	3° © 07'21	0.55650 AU	min. Earth dist.	5344 Jun 06 15:07		0.57240 AU
morning rise	5343 Jul 01 23:27	0° © 05'45		desc. node	5344 Jun 07 05:58	12° Ⅱ 52'55	
	5343 Jul 02 06:29	30°Ŗ Ⅱ		morning rise	5344 Jun 11 08:05	10° Ⅱ 31'56	
direct	5343 Jul 06 14:20	29° Ⅱ 18'01		direct	5344 Jun 16 21:07	9° Ⅱ 16'35	
	5343 Jul 10 21:23	0 \circ ∞		morning max el	5344 Jul 01 05:51	16° Ⅱ 47'50	26°21'49
morning max el	5343 Jul 20 14:18	6° ॐ 19'02	24°50'53		5344 Jul 12 01:50	0 \circ \odot	
	5343 Aug 06 17:08	$\mathfrak{O}^{\circ}\mathfrak{O}$		asc. node	5344 Jul 28 23:26	0° Ω 03′28	
asc. node	5343 Aug 12 02:25	10° Ω 15′27			5344 Jul 28 22:46	$0^{\circ}\Omega$	
morning set	5343 Aug 15 13:00	17° Ω 22'53		morning set	5344 Jul 29 23:46	2° Ω 11'13	
-	5343 Aug 21 08:37	0° m)		•			
				superior conj	5344 Aug 05 22:42	17° Ω 20'27	1°14'37
superior conj	5343 Aug 22 11:17	2° m 25'57	1°29'26	minimum elong	5344 Aug 05 20:24	17° Ω 07'45	
minimum elong	5343 Aug 22 09:15	2° m) 14'48	1°29'13	max. Earth dist.	5344 Aug 06 10:23		1.32072 AU
max. Earth dist.	5343 Aug 24 00:54	5° mp 50'48	1.32664 AU	man. Darm dist.	5344 Aug 11 18:12	0° m)	1.52072110
evening rise	5343 Aug 29 16:21	17° Mp 47'22	1.52004 710	evening rise	5344 Aug 12 20:45	2° Mp 20'13	
evening rise	5343 Sep 04 22:09	0° <u>Ω</u>		evening rise	5344 Aug 27 19:23	2 ilv2013 0° <u>ი</u>	
desc. node	5343 Sep 17 08:14	0 = 20° £ 41'44		desc. node	5344 Sep 03 05:15	0 = 9° £ 26'45	
desc. Hode	•				5344 Sep 03 03:13 5344 Sep 12 19:39		27902105
	5343 Sep 24 04:06	0°M	27027141	evening max el	1	20° Ω 34'51	2/30305
evening max el	5343 Oct 01 14:00	8°M11'04	2/2041	retrograde	5344 Sep 26 16:38	27° Ω 46'16	
retrograde	5343 Oct 15 07:21	15°M26'21		evening set	5344 Oct 03 17:42	25° Ω 34'40	0.60002.444
evening set	5343 Oct 22 11:26	12°M55'04	0.60040.477	min. Earth dist.	5344 Oct 07 10:00	22° ₽ 53'53	0.60983 AU
min. Earth dist.	5343 Oct 26 03:05	9°M52'39	0.62948 AU	inferior conj	5344 Oct 10 13:35	20° Ω 12'19	
inferior conj	5343 Oct 28 21:40	7°M11'05		minimum elong	5344 Oct 10 19:57	19° ≏ 58'38	4°11'11
minimum elong	5343 Oct 29 03:13	6° ™ 57'34	3°11'38	morning rise	5344 Oct 18 00:13	15° ≏ 21'40	
morning rise	5343 Nov 04 20:38	1° M 59'47		direct	5344 Oct 20 07:39	15° ≏ 00'17	
direct	5343 Nov 07 05:51	1°M33'19		asc. node	5344 Oct 24 22:41	16° ≏ 30'01	
asc. node	5343 Nov 08 01:41	1°M36'35		morning max el	5344 Oct 27 12:15	18° ≏ 35'16	17°59'41
morning max el	5343 Nov 13 22:00	4° ™ 59'20	17°49'23		5344 Nov 04 18:26	0° M ₊	
morning set	5343 Nov 30 01:54	29° ™ 59'38		morning set	5344 Nov 12 05:53	13° M 24'57	
	5343 Nov 30 01:59	0° ∡ 7			5344 Nov 21 08:30	0° ∡ 7	
superior conj	5343 Dec 11 19:07	20° ∡ 11′21	0°17'44	superior conj	5344 Nov 22 08:35	1° ∡ 746′24	0°54'01
minimum elong	5343 Dec 11 20:52	20° х 18'40	0°17'30	minimum elong	5344 Nov 22 12:23	2° ₹ 03'09	0°53'30
desc. node	5343 Dec 14 07:27	24° ₹ '21'30		max. Earth dist.	5344 Nov 29 23:09	14° √ 46'28	1.42215 AU
	5343 Dec 17 18:31	0°る		desc. node	5344 Nov 30 04:29	15° ₹ '08'36	-
max. Earth dist.	5343 Dec 18 10:46	1° る 05'27	1.43864 AU	evening rise	5344 Dec 05 19:42	24° √ 17'11	
evening rise	5343 Dec 26 23:00	14° る 29'54			5344 Dec 09 10:56	0°る	
	5344 Jan 06 04:42	0°≈			5344 Dec 30 04:44	0° ≈	
	JJ	J . J .			JJ JUU JU UT.TT	U . U .	
evening max el	5344 Jan 25 22:19	26° ≈ 26'57	21°08'18	evening max el	5345 Jan 07 16:25	10° ≈ 02'59	22°24'21

retrograde	5345 Jan 17 09:07	15° ≈ 48'55		desc. node	5345 Nov 17 01:31	5° ₹ 53'08	
asc. node	5345 Jan 20 21:57	13 ≈ 48 33 14° ≈ 43′29		desc. node	5345 Dec 02 15:19	0° 공	
evening set	5345 Jan 21 23:43	13°≈56'33		evening max el	5345 Dec 21 06:52	23° る 42'26	23044'23
inferior conj	5345 Jan 27 08:12	7°≈34'37	2°01'14	evening max er	5345 Dec 30 23:36	23 ⊙ 42 20	23 44 23
minimum elong	5345 Jan 27 05:57	7°≈42'28	2°00'29	retrograde	5346 Jan 01 02:33	0°≈05'27	
min. Earth dist.	5345 Jan 27 04:58	7°≈45'51	0.68133 AU	retrograde	5346 Jan 02 04:48	0 ≈0327 30°Rる	
morning rise	5345 Feb 01 12:03	1°≈24'46	0.08133 AO	evening set	5346 Jan 06 05:38	50 KG 27° る 57'43	
morning risc	5345 Feb 03 16:41	1 ∞24 40 30°Rる		asc. node	5346 Jan 07 18:59	26° පි 27'19	
direct	5345 Feb 06 04:03	30 KO 29° る 27'59		min. Earth dist.	5346 Jan 11 01:44	20 3 2719 22° 3 20'17	0.68006 AU
direct	5345 Feb 08 19:05	29 6 27 39 0° ≈		inferior conj	5346 Jan 11 16:00	22 3 2017 21° る 31'36	1°16'29
marning may al		0 ≈ 4°≈55'22	22°05'49	-	5346 Jan 11 16:00 5346 Jan 11 14:20	21 33130 21° 337 '17	
morning max el	5345 Feb 15 11:15	4 ≈33 22 17°≈57'37	22 03 49	minimum elong	5346 Jan 16 23:02	21 3 3717 15° る 26'31	1 13 32
desc. node	5345 Feb 26 03:45	1/ ≈3/3/ 0°) (morning rise		13 3 2031	
	5345 Mar 06 14:35			direct	5346 Jan 21 01:06		20045126
morning set	5345 Mar 20 12:56	21°) 30′38 0° °		morning max el	5346 Jan 29 05:11	18° る 34'07	20°45'36
n d r	5345 Mar 25 16:59		1 41111 477		5346 Feb 07 12:57	0°≈	
max. Earth dist.	5345 Mar 26 02:08	0° Ƴ 38'20	1.41111 AU	desc. node	5346 Feb 13 00:47	7°≈47'09	
				morning set	5346 Feb 27 18:32	0°) €02'09	
superior conj	5345 Apr 02 20:16	14° Υ 01'20			5346 Feb 27 17:59	0° ∀	
minimum elong	5345 Apr 03 00:42	14° Y 21′03	1°58'31	max. Earth dist.	5346 Mar 08 06:32	13° ∺ 32'07	1.43039 AU
	5345 Apr 11 14:30	0° 8					
evening rise	5345 Apr 13 07:11	3° 8 09'20		superior conj	5346 Mar 15 01:34	24°) 44'58	
asc. node	5345 Apr 18 21:14	13° 8 24'45		minimum elong	5346 Mar 15 02:25	24°) 48'31	2°08'59
evening max el	5345 Apr 29 12:08	28° 8 59'31	18°15'44		5346 Mar 18 03:48	0° Υ	
	5345 Apr 30 14:44	Π °0		evening rise	5346 Mar 27 01:01	15° Y 32′24	
retrograde	5345 May 06 14:37	2° Ⅱ 32'50			5346 Apr 04 07:52	9° 8	
evening set	5345 May 09 00:41	2° Ⅱ 08'56		asc. node	5346 Apr 05 18:16	2° 8 20'45	
	5345 May 12 23:52	30° ₹ 8		evening max el	5346 Apr 12 23:59	12° 8 04'20	18°06'27
inferior conj	5345 May 16 03:24	27° 8 26'54	2°22'16	retrograde	5346 Apr 19 13:00	15° 8 26'27	
minimum elong	5345 May 16 06:51	27° 8 19'24	2°21'20	evening set	5346 Apr 22 05:50	14° 8 51'41	
min. Earth dist.	5345 May 19 13:25	24° 8 30'49	0.59318 AU	inferior conj	5346 Apr 28 17:04	9° 8 49'25	3°07'48
morning rise	5345 May 23 10:08	21° 8 46'50		minimum elong	5346 Apr 28 19:36	9° 8 43'06	3°07'23
desc. node	5345 May 25 03:00	20° 8 55'55		min. Earth dist.	5346 May 01 19:16	6° 8 45'56	0.61536 AU
direct	5345 May 29 17:54	19° 8 57'05		morning rise	5346 May 05 07:29	3° 8 50'37	
morning max el	5345 Jun 13 03:08	27° 8 47'17	27°25'11	direct	5346 May 12 01:55	1° 8 29'22	
	5345 Jun 15 06:29	Π $^{\circ}0$		desc. node	5346 May 12 00:02	1° 8 29'23	
	5345 Jul 05 17:44	0 \circ \odot		morning max el	5346 May 26 06:38	9° 8 28'29	27°52'15
morning set	5345 Jul 14 07:48	16° © 48'47			5346 Jun 11 03:30	Π $^{\circ}0$	
asc. node	5345 Jul 15 20:28	20° © 02'19			5346 Jun 27 21:31	0°€	
	5345 Jul 20 10:27	$0^{\circ}\Omega$		morning set	5346 Jun 28 11:15	1°5510'02	
				asc. node	5346 Jul 02 17:31	10° 5 07'36	
superior conj	5345 Jul 21 10:25	2° Ω 12'21	0°55'21	max. Earth dist.	5346 Jul 04 06:43	13° © 28'35	1.32165 AU
minimum elong	5345 Jul 21 08:20	2° Ω 00'47	0°54'56				
max. Earth dist.	5345 Jul 20 21:33	1° Ω 01'12	1.31901 AU	superior conj	5346 Jul 05 20:46	16°\$56'14	0°32'11
evening rise	5345 Jul 28 05:36	17° Ω 03′16		minimum elong	5346 Jul 05 19:22	16°5948'30	0°31'52
C	5345 Aug 03 15:01	0° m		C	5346 Jul 11 20:15	$0^{\circ}\Omega$	
desc. node	5345 Aug 21 02:16	27° Mp 11'18		evening rise	5346 Jul 12 16:52	1° Ω 50′27	
	5345 Aug 23 14:27	0∘ <mark>⊽</mark>		C	5346 Jul 27 22:29	o° mp	
evening max el	5345 Aug 25 18:11	2° ₽ 10'02	26°06'32	evening max el	5346 Aug 07 09:37	12° m 59'03	24°43'04
retrograde	5345 Sep 08 17:21	9° ≏ 17'40		desc. node	5346 Aug 07 23:17	13° Mp 31'16	
evening set	5345 Sep 15 03:33	7° £ 37'51		retrograde	5346 Aug 21 07:02	19° m 59'24	
min. Earth dist.	5345 Sep 19 07:03	5° ഫ 02'51	0.58904 AU	evening set	5346 Aug 26 13:02	18° m 57'27	
inferior conj	5345 Sep 22 12:35	2° £ 38'32		min. Earth dist.	5346 Aug 31 20:56		0.56969 AU
minimum elong	5345 Sep 22 17:31	2° ഫ 29'19		inferior conj	5346 Sep 03 15:51	14° m)21'16	
Z .	5345 Sep 26 07:56	30°R, Mp		minimum elong	5346 Sep 03 15:58	14° m) 21'05	
morning rise	5345 Sep 30 09:46	28° m 10'38		morning rise	5346 Sep 11 21:16	10° mp 15'04	
direct	5345 Oct 02 18:54	27° m 51'37		direct	5346 Sep 14 11:53	9° m 56'04	
	5345 Oct 08 18:28	ე∘ ი		morning max el	5346 Sep 23 19:27	14° m) 18'51	19°21'53
morning max el	5345 Oct 10 20:32	0 — 1° Ω 45'08	18°30'01	asc. node	5346 Sep 28 16:46	20° m/03'01	
asc. node	5345 Oct 10 20:32 5345 Oct 11 19:43	2° Ω 43'51	10 2001	acc. noue	5346 Oct 04 20:04	ე∘ ი	
morning set	5345 Oct 26 22:18	27° £ 24'54		morning set	5346 Oct 10 23:16	0 — 11° ≏ 48'52	
morning set	5345 Oct 28 06:27	0°M		morning set	33 10 300 10 23.10	11 -70 32	
	5575 OCL 20 00.27	O IIO		superior conj	5346 Oct 19 01:09	27° £ 54'41	1°35'36
superior conj	5345 Nov 04 20:22	14°M25'52	1°19'49	minimum elong	5346 Oct 19 01:09 5346 Oct 19 03:23	27 ≥ 3441 28° ⊆ 05'33	1°35'28
minimum elong	5345 Nov 04 20:22 5345 Nov 04 23:56	14 IIC23 32 14°IIC42'22	1°19'49 1°19'26	mminum ciong	5346 Oct 19 03:25 5346 Oct 20 02:56	28 = 03 33 0° M	1 33 20
max. Earth dist.	5345 Nov 12 06:08	27°M44'10	1.40208 AU	max. Earth dist.	5346 Oct 25 10:58	10°ML02'55	1.38095 AU
max. Earm UISt.		2/3∥ ८ 4410	1.40200 AU			10°11602'33	1.30033 AU
evening rise	5345 Nov 13 13:40 5345 Nov 16 12:59	0° x ¹ 5° x ¹01'07		evening rise desc. node	5346 Oct 29 05:10 5346 Nov 03 22:32	26°M31'20	
evening fise	33+3 INOV 10 12.39	3 X-010/		uese. Hout	3340 INOV U3 22.32	20 11631 20	

		_					
	5346 Nov 06 01:48	0° ∡		minimum elong	5347 Oct 02 18:52	12° ⊆ 03'02	1°42'40
	5346 Nov 27 02:57	0°る		max. Earth dist.	5347 Oct 07 18:42	21° £ 59'38	1.36113 AU
evening max el	5346 Dec 03 19:49	7° る 25'54	25°01'46	evening rise	5347 Oct 11 17:32	29° £ 28'55	
retrograde	5346 Dec 15 15:47	14°る17'13			5347 Oct 12 00:16	0°M	
evening set	5346 Dec 21 08:16	11° る 55'16		desc. node	5347 Oct 21 19:34	16°M58'47	
asc. node	5346 Dec 25 16:02	7°る06'55 6°る52'02	0 (7525 ATT		5347 Oct 30 06:58	0° √ 7	26900111
min. Earth dist.	5346 Dec 25 20:37	6°る32'02 5° る 29'26	0.67525 AU 0°25'09	evening max el	5347 Nov 16 08:35	21°×710'08	26*09*11
inferior conj	5346 Dec 26 21:48			retrograde	5347 Nov 28 24:00	28° 🖈 19'23	
minimum elong	5346 Dec 26 21:11	5°る31'29 30°Rメ	0°24'54	evening set min. Earth dist.	5347 Dec 05 05:56 5347 Dec 09 11:16	25° ₹ 45'54 21° ₹ 17'53	0.66691 AU
morning rise	5346 Dec 31 18:51 5347 Jan 01 10:17	30 Kx. 29° ₹31'17		inferior conj	5347 Dec 10 23:43	19° ₹ 25'17	
direct	5347 Jan 04 23:48	29 × 31 17 28° × 18'08		minimum elong	5347 Dec 10 23:43 5347 Dec 11 00:34	19° x 22'38	
direct	5347 Jan 04 23:48 5347 Jan 09 12:01	20 x 10 00		asc. node	5347 Dec 11 00:34 5347 Dec 12 13:04	19 x 22 38	0 3127
morning max el	5347 Jan 12 07:02	0 0 2° る 24'04	19°38'10	morning rise	5347 Dec 12 13:04 5347 Dec 16 19:46	17 × 32 12 13° × 36'31	
greatest brilliancy	5347 Jan 25 07:28	2 32404 19° る 33'00	-0.7m	direct	5347 Dec 10 19:40 5347 Dec 19 22:28	13 × 3031 12° × 41'20	
desc. node	5347 Jan 30 21:47	19 3 3300 27° る 57'52	-0.7111	morning max el	5347 Dec 19 22:28 5347 Dec 26 16:18	16° × 23'14	18°46'07
dese. Hode	5347 Feb 01 05:51	27 ⊙ 37 32		morning max cr	5348 Jan 05 23:05	10 × 23 14	10 4007
morning set	5347 Feb 06 05:01	8°≈15'34		morning set	5348 Jan 17 03:35	17° る 24'23	
max. Earth dist.	5347 Feb 18 18:40	27°≈14'46	1.44473 AU	desc. node	5348 Jan 17 18:49	18° る 24'15	
max. Darm dist.	5347 Feb 20 12:14	0° ∀	1.44473710	dese. Hode	5348 Jan 25 04:11	0°≈	
	3317100 20 12.11	٠ ,		max. Earth dist.	5348 Feb 01 12:14	11° ≈ 29'47	1.45243 AU
superior conj	5347 Feb 23 05:18	4°) € 20'36	-2°02'27	max. Bartii dist.	3310100 01 12.11	11 /0/27 17	1.13213710
minimum elong	5347 Feb 22 23:52	3° ¥ 58'45		superior conj	5348 Feb 02 12:53	13° ≈ 06'31	-1°36'02
evening rise	5347 Mar 08 23:06	27° \ 01'30	2 02 10	minimum elong	5348 Feb 02 03:28	12°≈29'31	1°35'08
e vennig 1150	5347 Mar 10 17:23	0°Υ		mmmum viong	5348 Feb 13 05:07	0° ∀	1 22 00
asc. node	5347 Mar 23 15:20	20° Y 42'57		evening rise	5348 Feb 17 22:16	7° ₩ 33'31	
evening max el	5347 Mar 27 12:58	25°Υ24'08	18°16'07	greatest brilliancy	5348 Feb 24 18:04	18°) 32'46	-0.9m
retrograde	5347 Apr 02 22:48	28° Y 49'31	10 10 07	greatest stilliane;	5348 Mar 03 02:43	0°Υ	0.5111
evening set	5347 Apr 05 21:59	28°Υ02'34		asc. node	5348 Mar 09 12:22	8° Υ 21'13	
inferior conj	5347 Apr 11 21:45	22° Υ 41'07	3°28'56	evening max el	5348 Mar 10 00:18	8°Υ52'15	18°43'57
minimum elong	5347 Apr 11 22:41	22° Υ 38'29	3°28'52	retrograde	5348 Mar 16 15:55	12° Υ 33'44	10 .557
min. Earth dist.	5347 Apr 14 10:03	19° Υ 53'04	0.63600 AU	evening set	5348 Mar 19 21:37	11° Y 33'50	
morning rise	5347 Apr 17 22:23	16° Ƴ 32'09		inferior conj	5348 Mar 25 13:31	5° Ƴ 54'50	3°31'23
direct	5347 Apr 24 18:35	13° Y 50'07		minimum elong	5348 Mar 25 12:58	5° Υ 56'32	3°31'20
desc. node	5347 Apr 28 21:03	14° Y 40'53		min. Earth dist.	5348 Mar 27 10:11	3° Y 38'03	0.65331 AU
morning max el	5347 May 08 14:41	21° Y 49'09	27°41'53		5348 Mar 30 19:18	30° ₹ ₩	
S	5347 May 15 18:10	0°8		morning rise	5348 Mar 31 03:49	29°) 41′09	
	5347 Jun 04 07:27	0° I I		direct	5348 Apr 06 18:28	26° ¥ 51'35	
morning set	5347 Jun 12 07:46	15° ∏ 07'42		desc. node	5348 Apr 14 18:05	0° Υ 02'29	
max. Earth dist.	5347 Jun 17 10:05	25° Ⅱ 35'33	1.32872 AU		5348 Apr 14 16:42	0 ° $\mathbf{\Upsilon}$	
	5347 Jun 19 11:50	0ಂತ		morning max el	5348 Apr 20 00:48	4° Ƴ 40′10	26°58'22
asc. node	5347 Jun 19 14:35	0°ഇ14'48		_	5348 May 09 07:00	0°8	
				morning set	5348 May 25 18:21	28° 8 33'09	
superior conj	5347 Jun 20 03:53	1°526'07	0°05'46		5348 May 26 12:22	$\Pi^{\circ}0$	
minimum elong	5347 Jun 20 03:35	1° 5 24'35	0°05'41	max. Earth dist.	5348 May 30 04:04	7° Ⅱ 13'54	1.34039 AU
behind sun begin	5347 Jun 19 22:35	0°957'41					
behind sun end	5347 Jun 20 08:36	1° 9 51'32		superior conj	5348 Jun 03 05:36	15° Ⅱ 35'37	-0°23'06
evening rise	5347 Jun 27 04:39	16° © 35'24		minimum elong	5348 Jun 03 06:50	15° Ⅱ 42'04	0°22'51
	5347 Jul 03 20:02	$0^{\circ}\Omega$		asc. node	5348 Jun 05 11:38	20° Ⅱ 19'55	
evening max el	5347 Jul 19 22:11	23° Ω 21′07	23°06'04		5348 Jun 10 01:18	0°€	
desc. node	5347 Jul 25 20:19	27° Ω 55′23		evening rise	5348 Jun 10 15:01	1° © 11'57	
	5347 Aug 01 04:27	0° ™			5348 Jun 27 05:03	$0 {\circ} \Omega$	
retrograde	5347 Aug 02 07:52	0° Mp 02'57		evening max el	5348 Jun 30 15:51	3° Ω 49'11	21°31'36
	5347 Aug 03 11:27	30° R Ω		desc. node	5348 Jul 11 17:21	9° Ω 50'09	
evening set	5347 Aug 06 01:35	29° Ω 32'25		retrograde	5348 Jul 12 22:40	9° Ω 53'41	
min. Earth dist.	5347 Aug 13 07:07		0.55500 AU	evening set	5348 Jul 15 10:04	9° Ω 39'42	
inferior conj	5347 Aug 14 23:32	25° Ω 17'42		inferior conj	5348 Jul 24 18:13	5° Ω 39'34	
minimum elong	5347 Aug 14 17:10	25° Ω 26'58	4°54'14	minimum elong	5348 Jul 24 09:24	5° Ω 51'54	
morning rise	5347 Aug 23 11:00	21° Ω 26′24		min. Earth dist.	5348 Jul 24 17:03		0.54806 AU
direct	5347 Aug 26 10:09	21° Ω 05'30		morning rise	5348 Aug 02 09:47	1° Ω 46'53	
morning max el	5347 Sep 06 06:30	26° Ω 08'19	20°35'42	direct	5348 Aug 05 19:58	1° Ω 21′28	
	5347 Sep 09 20:32	0° m		morning max el	5348 Aug 18 05:53	7° Ω 12'29	22°08'32
asc. node	5347 Sep 15 13:49	8° m 13′17		asc. node	5348 Sep 01 10:52	27° Ω 02'06	
morning set	5347 Sep 25 05:56	26° Mp 28'58			5348 Sep 03 01:04	0° m y	
	5347 Sep 26 22:50	0∘ ⊽		morning set	5348 Sep 08 15:58	11° Mp 17'54	
superior conj	5347 Oct 02 18:12	11° ≏ 59'38	1°42'40	superior conj	5348 Sep 15 19:43	26° Mp 28'49	1°42'21

minimum elong	5348 Sep 15 19:01	26° m 25'09	1°42'20	superior conj	5349 Aug 31 02:50	11° m 13'39	1°35'45
minimum ciong	5348 Sep 17 12:00	0° ⊡	1 42 20	minimum elong	5349 Aug 31 02:30 5349 Aug 31 01:09	11° m 04'35	1°35'37
max. Earth dist.	5348 Sep 19 09:24	ა _ 3° ჲ 54'24	1.34444 AU	max. Earth dist.	5349 Sep 02 08:44	16° M) 03'22	1.33187 AU
evening rise	5348 Sep 23 21:46	12° ⊆ 54'24	1.54444 710	evening rise	5349 Sep 07 13:58	26° m 53'34	1.55107 710
evening rise	5348 Oct 03 07:52	0°ML		evening rise	5349 Sep 09 03:26	0° ರ	
desc. node	5348 Oct 07 16:36	7° ML 09'06		desc. node	5349 Sep 24 13:38	o — 26° Ω 54'47	
acse. node	5348 Oct 24 08:12	0°×7		dese. Hode	5349 Sep 26 15:15	0°M	
evening max el	5348 Oct 28 21:17	4° х 46′26	26°59'22	evening max el	5349 Oct 11 09:01	18°M04'31	27°25'13
retrograde	5348 Nov 11 02:44	12° ₹ '04'04		retrograde	5349 Oct 24 23:28	25°M22'43	
evening set	5348 Nov 17 20:30	9° × 124'23		evening set	5349 Nov 01 01:21	22°M45'13	
min. Earth dist.	5348 Nov 21 19:21	5° ∡ ³31'46	0.65499 AU	min. Earth dist.	5349 Nov 04 18:51	19°M25'54	0.63964 AU
inferior conj	5348 Nov 23 19:37	3° ∡ 13'55	-1°33'14	inferior conj	5349 Nov 07 07:02	16°M49'58	-2°37'04
minimum elong	5348 Nov 23 22:17	3° ∡ 06'16	1°32'07	minimum elong	5349 Nov 07 11:37	16°M38'03	2°35'19
C	5348 Nov 26 19:57	30°RM		morning rise	5349 Nov 13 23:22	11°M28'33	
asc. node	5348 Nov 28 10:06	28°M38'15		asc. node	5349 Nov 15 07:08	11° M .04'41	
morning rise	5348 Nov 30 01:05	27°M37'22		direct	5349 Nov 16 10:51	10°M57'58	
direct	5348 Dec 02 19:00	26°M56'25		morning max el	5349 Nov 22 23:32	14°M22'51	17°51'57
	5348 Dec 08 20:22	0° ∡ ¹		•	5349 Dec 03 21:42	0° ∡ ¹	
morning max el	5348 Dec 09 06:45	0° ∡ ¹25′10	18°10'30	morning set	5349 Dec 09 18:11	9° ∡ 57'52	
morning set	5348 Dec 27 21:03	28° ∡ 100'49		desc. node	5349 Dec 21 12:52	29° ∡ ⁴44'34	
	5348 Dec 29 02:16	0°రె			5349 Dec 21 16:38	0°రె	
desc. node	5349 Jan 03 15:51	9° ට 01'07					
				superior conj	5349 Dec 22 13:51	1° る 26'29	-0°07'19
superior conj	5349 Jan 11 17:13	21° る 50'55	-0°54'04	minimum elong	5349 Dec 22 13:01	1° る 23'07	0°07'10
minimum elong	5349 Jan 11 10:35	21° る 24'46	0°53'11	behind sun begin	5349 Dec 22 04:03	0° ප් 46'35	
max. Earth dist.	5349 Jan 14 07:42	25° る 56'43	1.45266 AU	behind sun end	5349 Dec 22 21:59	1° る 59'37	
	5349 Jan 16 21:48	0° ≈		max. Earth dist.	5349 Dec 28 01:59	10° ප 17'34	1.44562 AU
evening rise	5349 Jan 27 23:24	17° ≈ 14'47		evening rise	5350 Jan 07 10:50	26° る 28'28	
	5349 Feb 05 04:52	0°) €			5350 Jan 09 18:03	0° ≈	
greatest brilliancy	5349 Feb 09 07:08	6°) 15′00	-0.7m		5350 Jan 30 08:21	0°) €	
evening max el	5349 Feb 21 07:52	22°) €24'25	19°28'47	evening max el	5350 Feb 04 10:18	5°) 58′08	20°28'33
asc. node	5349 Feb 24 09:23	25°) €03'05		asc. node	5350 Feb 11 06:23	10°) 33′37	
retrograde	5349 Feb 28 12:57	26°) 32′45		retrograde	5350 Feb 12 11:13	10°) 41′20	
evening set	5349 Mar 04 01:59	25° ∺ 19'14		evening set	5350 Feb 16 08:55	9° 升 13′23	
inferior conj	5349 Mar 09 13:01	19° ∺ 24'50	3°19'30	inferior conj	5350 Feb 21 17:30	3°) €06'02	2°56'16
minimum elong	5349 Mar 09 11:22	19° ₩ 30'13	3°19'16	minimum elong	5350 Feb 21 15:15	3° ₩ 13'45	2°55'46
min. Earth dist.	5349 Mar 10 18:39	17°) 47'44	0.66650 AU	min. Earth dist.	5350 Feb 22 09:25	2° 升 11'40	0.67549 AU
morning rise	5349 Mar 14 20:29	13°) €09'43			5350 Feb 24 01:10	30° ₹ ≈	
direct	5349 Mar 21 00:40	10°) 24′57		morning rise	5350 Feb 26 21:21	26° ≈ 51'43	
desc. node	5349 Apr 01 15:07	17° ₩ 01'00		direct	5350 Mar 04 12:17	24° ≈ 21'16	
morning max el	5349 Apr 02 10:37	17° ∺ 49′28	25°49'35		5350 Mar 14 16:11	0° ℋ	
	5349 Apr 12 15:47	$0^{\circ}\mathbf{\Upsilon}$		morning max el	5350 Mar 15 19:15	1° ∺ 06'31	24°25'18
	5349 May 02 06:44	9° 8		desc. node	5350 Mar 19 12:07	5°) €08'48	
morning set	5349 May 08 15:01	11° 8 15'07			5350 Apr 06 15:18	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	5349 May 12 10:41	18° 8 24'56	1.35660 AU	morning set	5350 Apr 20 16:22	22° Y 57'50	
				max. Earth dist.	5350 Apr 24 07:52	29° Y 26′51	1.37670 AU
superior conj	5349 May 17 23:24	29° 8 17'49			5350 Apr 24 15:11	9° 8	
minimum elong	5349 May 18 02:21	29° 8 32'43	0°52'30				
	5349 May 18 07:46	$\Pi^{\circ}0$		superior conj	5350 May 01 05:56	12° 8 23'13	
asc. node	5349 May 23 08:40	10° Ⅱ 19'00		minimum elong	5350 May 01 10:26	12° 8 44'53	1°21'32
evening rise	5349 May 25 21:53	15° Ⅱ 33'42		evening rise	5350 May 09 22:44	29° 8 32'34	
	5349 Jun 02 08:15	0°€		asc. node	5350 May 10 05:41	0° Ⅱ 07'02	
evening max el	5349 Jun 12 21:05	14°951'44	20°11'25		5350 May 10 04:16	0°II	
retrograde	5349 Jun 23 12:37	20°504'32		evening max el	5350 May 26 14:43	26° ∏ 36′30	19°10'31
evening set	5349 Jun 25 10:59	19° © 54'58		_	5350 May 31 07:01	0°€	
desc. node	5349 Jun 28 14:21	19°502'08	1046145	retrograde	5350 Jun 04 13:36	0°959'13	
inferior conj	5349 Jul 04 13:27	15°956'18		evening set	5350 Jun 06 13:17	0°547'12	
minimum elong	5349 Jul 04 08:28	16°503'42	1°44'56		5350 Jun 09 01:58	30°RⅡ	000000
min. Earth dist.	5349 Jul 06 05:03	14°957'38	0.55067 AU	inferior conj	5350 Jun 14 22:38	26° Ⅱ 36'26	0°09'25
morning rise	5349 Jul 13 04:31	11°5641'13		minimum elong	5350 Jun 14 23:02	26° Ⅲ 35'46	0°09'15
direct	5349 Jul 17 07:01	11°504'38	22051154	transit middle	5350 Jun 14 23:02	26° II 35'46	0°09'15
morning max el	5349 Jul 30 21:26	17° 5 43'36	23°51'54	transit begin	5350 Jun 14 19:55	26° Ⅱ 41'02	
1	5349 Aug 09 21:55	0° Ω		transit end	5350 Jun 15 02:09	26° ∏ 30'30	
asc. node	5349 Aug 19 07:55	16° Ω 19'58		desc. node	5350 Jun 15 11:23	26° Ⅱ 14'51	0.56046.411
morning set	5349 Aug 24 03:32	26° Ω 10'30		min. Earth dist.	5350 Jun 17 19:48	24° ∏ 40'19	0.56246 AU
	5349 Aug 25 22:31	0° m)		morning rise	5350 Jun 23 05:39	21° ∏ 46'34	
				direct	5350 Jun 28 06:09	20° ∏ 48′02	

		_				_	
morning max el	5350 Jul 12 11:04	28° Ⅲ 04'09	25°31'58	morning max el	5351 Jun 24 04:32	8° Ⅱ 42'48	26°52'41
	5350 Jul 14 09:01	0ಂ ತಾ			5351 Jul 10 07:33	0_{\circ} වෙ	
	5350 Aug 03 05:04	$0^{\circ}\Omega$		morning set	5351 Jul 24 00:49	25° © 45'22	
asc. node	5350 Aug 06 04:57	5° Ω 58'27		asc. node	5351 Jul 24 01:59	25° © 51'30	
morning set	5350 Aug 08 15:00	11° Ω 01'17			5351 Jul 26 00:34	0 $^{\circ}$ Ω	
superior conj	5350 Aug 15 13:13	26° Ω 06'09	1°23'44	superior conj	5351 Jul 31 00:59	11° Ω 00'05	1°06'57
minimum elong	5350 Aug 15 13:13 5350 Aug 15 11:00	25°Ω54'00	1°23'26	minimum elong	5351 Jul 30 22:43	10°Ω47'31	1°06'33
max. Earth dist.	5350 Aug 15 11:00 5350 Aug 16 15:17	28° Ω 29'10	1.32359 AU	max. Earth dist.	5351 Jul 31 02:00	11° Ω 05'42	1.31954 AU
max. Lartii dist.	5350 Aug 10 13:17 5350 Aug 17 07:54	0° m	1.32337 AO	evening rise	5351 Aug 06 21:20	25°Ω54'34	1.51754 AO
evening rise	5350 Aug 17 07:54 5350 Aug 22 14:43	11° Mp 16'23		evening rise	•	0° M)	
evening rise		-			5351 Aug 08 20:27	0∘ ⊽ ० ार्ष	
JJ.	5350 Sep 01 08:45	0∘ ⊽		JJ.	5351 Aug 26 00:55		
desc. node	5350 Sep 11 10:39	16° Ω 05'35		desc. node	5351 Aug 29 07:41	4° £ 27'09	26040156
	5350 Sep 22 20:13	0°M	25020152	evening max el	5351 Sep 05 20:55	12° £ 56'38	26°42'56
evening max el	5350 Sep 23 17:48	0°M52'07	27°20'52	retrograde	5351 Sep 19 18:57	20° Ω 05'36	
retrograde	5350 Oct 07 13:19	8°M06'08		evening set	5351 Sep 26 15:14	18° Ω 06'37	
evening set	5350 Oct 14 17:05	5°M41'57		min. Earth dist.	5351 Sep 30 10:49	15° ≏ 30'21	0.60099 AU
min. Earth dist.	5350 Oct 18 08:13	2°M49'55	0.62130 AU	inferior conj	5351 Oct 03 16:13	12° ≏ 54'13	
inferior conj	5350 Oct 21 07:03	0°M06'32		minimum elong	5351 Oct 03 22:21	12° ≏ 41'49	4°33'31
minimum elong	5350 Oct 21 13:08	29° ≏ 52'28	3°37'48	morning rise	5351 Oct 11 07:31	8° ≏ 12'44	
	5350 Oct 21 09:52	30° ₹ Ω		direct	5351 Oct 13 15:18	7° ≙ 52'34	
morning rise	5350 Oct 28 11:01	25° ≙ 03'29		asc. node	5351 Oct 20 01:13	10° ≙ 34'33	
direct	5350 Oct 30 18:57	24° ≏ 39'38		morning max el	5351 Oct 21 03:40	11° ≏ 34'20	18°10'02
asc. node	5350 Nov 02 04:09	25° ≏ 05'24			5351 Nov 02 09:11	0° M.	
morning max el	5350 Nov 06 15:36	28° ഫ 08'48	17°51'23	morning set	5351 Nov 05 22:38	6°M38′29	
	5350 Nov 08 08:35	0°M					
morning set	5350 Nov 22 12:45	22°M56'37		superior conj	5351 Nov 15 11:56	24°M21'51	1°06'15
	5350 Nov 26 11:18	0° ∡ ¹		minimum elong	5351 Nov 15 15:51	24°M39'26	1°05'46
				C	5351 Nov 18 16:01	0° ⊼ ¹	
superior conj	5350 Dec 03 12:21	12° ∡ 17'53	0°34'21	max. Earth dist.	5351 Nov 23 03:29	7° ∡ ¹42'28	1.41391 AU
minimum elong	5350 Dec 03 15:21	12° х 30′38	0°33'56	desc. node	5351 Nov 25 06:55	11° √ 17'42	
desc. node	5350 Dec 08 09:53	20° х 31′23		evening rise	5351 Nov 28 04:38	16° ₹ 03'25	
max. Earth dist.	5350 Dec 10 17:02	24° × 17'26	1.43217 AU	evening rise	5351 Dec 07 02:18	0°ප	
Titali. Darui dibi.	5350 Dec 14 06:08	0°ප	15217 110		5351 Dec 29 00:34	0° ≈	
evening rise	5350 Dec 17 00:00 5350 Dec 17 23:53	್ರಂಕ್ರ 5° ಕ್ರ 53'41		evening max el	5351 Dec 27 00:54 5351 Dec 31 23:52	3° ≈ 11'39	22°58'20
evening rise	5350 Dec 17 23:35 5351 Jan 03 02:06	0°≈		retrograde	5352 Jan 11 03:54	9°≈13'25	22 36 20
evening max el	5351 Jan 18 07:24	0 ∞ 19° ≈ 33'54	21°30'54	evening set	5352 Jan 11 03:54 5352 Jan 15 23:45	7°≈14'23	
•	5351 Jan 27 08:43	19 ≈33 34 24°≈56'21	21 39 34	asc. node	5352 Jan 15 23:43 5352 Jan 16 00:27	7°≈12'56	
retrograde							1942107
asc. node	5351 Jan 29 03:24	24°≈39'29		inferior conj	5352 Jan 21 08:54	0°≈50'25	1°43'07 1°42'24
evening set	5351 Jan 31 16:43	23°≈13'07	2022142	minimum elong	5352 Jan 21 06:50	0°≈57'33	
inferior conj	5351 Feb 06 00:47	16°≈55'46	2°23'43	min. Earth dist.	5352 Jan 21 00:55	1°≈18′00	0.68127 AU
minimum elong	5351 Feb 05 22:23	17°≈04'04	2°23'01		5352 Jan 21 23:32	30°Rる	
min. Earth dist.	5351 Feb 06 04:18	16°≈43'34	0.68034 AU	morning rise	5352 Jan 26 13:49	24°る42'36	
morning rise	5351 Feb 11 03:53	10°≈43'54		direct	5352 Jan 30 23:51	22°る55'25	21020126
direct	5351 Feb 16 04:22	8°≈33'50		morning max el	5352 Feb 08 18:41	28° る 01'50	21°30′26
morning max el	5351 Feb 26 04:41	14° ≈ 29'42	22°55'56		5352 Feb 10 15:24	0° ≈	
desc. node	5351 Mar 06 09:08	24°≈06'39		desc. node	5352 Feb 21 06:09	13°≈40'00	
	5351 Mar 10 18:16	0°) €		_	5352 Mar 03 09:27	0° ∀	
	5351 Mar 30 14:18	0° Υ		morning set	5352 Mar 11 12:07	12°) 34'49	
morning set	5351 Apr 01 16:30	3° Y 26'31		max. Earth dist.	5352 Mar 18 04:04	23°) 21'41	1.41983 AU
max. Earth dist.	5351 Apr 06 03:18	10° Y 57'30	1.39874 AU		5352 Mar 22 03:21	0 ° Υ	
superior conj	5351 Apr 13 21:12	24° Y 42'38	-1°47'31	superior conj	5352 Mar 25 16:14	6° Ƴ 03'50	-2°04'40
	*					6°Υ18'20	
minimum elong	5351 Apr 14 02:15	25° Y 05'47	1-4702	minimum elong	5352 Mar 25 19:35	25°Υ51'28	2 04 41
	5351 Apr 16 17:49	0° 8		evening rise	5352 Apr 05 17:43		
evening rise	5351 Apr 23 14:36	13° 8 01'36		,	5352 Apr 08 00:16	0° 8	
asc. node	5351 Apr 27 02:42	19° 8 39'39		asc. node	5352 Apr 12 23:44	8° 8 50'58	10000100
	5351 May 02 23:24	0°II	10020155	evening max el	5352 Apr 22 03:56	21° 8 51'16	18*09'22
evening max el	5351 May 09 18:12	8° Ⅱ 59'25	18°29'55	retrograde	5352 Apr 28 23:14	25° 8 18'01	
retrograde	5351 May 17 09:16	12° ∏ 45'49		evening set	5352 May 01 12:19	24° 8 49'35	204
evening set	5351 May 19 15:29	12° Ⅱ 27'00		inferior conj	5352 May 08 07:55	19° 8 58'30	
inferior conj	5351 May 27 04:48	7° Ⅲ 56'41	1°42'39	minimum elong	5352 May 08 11:09	19° 8 51'03	2°44'13
minimum elong	5351 May 27 07:59	7° ∏ 50′22	1°41'38	min. Earth dist.	5352 May 11 15:31	16° 8 56'32	0.60265 AU
min. Earth dist.	5351 May 30 14:28	5° Ⅱ 16'32	0.58097 AU	morning rise	5352 May 15 07:33	14° 8 09'18	
desc. node	5351 Jun 02 08:24	3° Ⅱ 23'48		desc. node	5352 May 19 05:24	12° 8 25'38	
morning rise	5351 Jun 03 21:17	2° ∏ 32'48		direct	5352 May 21 20:50	12° 8 05'39	
direct	5351 Jun 09 19:21	1° Ⅱ 02'57		morning max el	5352 Jun 05 04:38	19° 8 59'56	27°41'26

	5352 Jun 13 17:53	$\Pi^{\circ}0$			5353 May 16 08:12	0° 8	
	5352 Jul 02 03:43	0 \circ \odot		morning max el	5353 May 18 10:37	1° 8 59'43	27°52'25
morning set	5352 Jul 07 07:13	10°517'26		_	5353 Jun 08 01:04	0°II	
asc. node	5352 Jul 09 23:02	15°954'01	1 21065 177	morning set	5353 Jun 21 08:03	24° Ⅱ 30′08	
max. Earth dist.	5352 Jul 13 13:05	23° © 41'29	1.31965 AU	asc. node	5353 Jun 24 00:05 5353 Jun 26 20:04	0°ତ 6° ତ 00'45	
superior conj	5352 Jul 14 12:23	25° © 49'42	0°45'58	max. Earth dist.	5353 Jun 26 20:22	6°902'22	1.32407 AU
minimum elong	5352 Jul 14 10:31	25° © 39'27	0°45'35	max. Earth dist.	3333 Jun 20 20.22	0 302 22	1.52407 710
	5352 Jul 16 09:45	0°N		superior conj	5353 Jun 28 21:34	10°528'31	0°21'20
evening rise	5352 Jul 21 07:30	10° Ω 40'55		minimum elong	5353 Jun 28 20:35	10°523'10	0°21'07
	5352 Jul 31 03:23	0° m		evening rise	5353 Jul 05 19:13	25°\$28'00	
desc. node	5352 Aug 15 04:42	21° m 39'41			5353 Jul 07 22:57	$0^{\circ}\Omega$	
evening max el	5352 Aug 17 16:17	24° m 11'39	25°33'37		5353 Jul 25 20:59	0° m)	
, 1	5352 Aug 25 21:27	0° ⊽		evening max el	5353 Jul 30 05:25	~	24°02'27
retrograde	5352 Aug 31 14:56 5352 Sep 06 08:13	1° -≏ 16′31 30°R m)		desc. node retrograde	5353 Aug 02 01:44 5353 Aug 12 23:37	7° Mp 14'57 11° Mp 40'29	
evening set	5352 Sep 06 08:13 5352 Sep 06 15:02	29° Mp 52'26		evening set	5353 Aug 12 25:37 5353 Aug 17 14:33	10° m 53'13	
min. Earth dist.	5352 Sep 11 04:10	-	0.58050 AU	min. Earth dist.	5353 Aug 23 15:56	7° m 55'02	0.56267 AU
inferior conj	5352 Sep 14 07:09	25° m 03'26		inferior conj	5353 Aug 26 01:45	6° m 26'07	
minimum elong	5352 Sep 14 10:27	24° M 57'36	5°11'30	minimum elong	5353 Aug 25 23:02	6° ™ 30'18	5°14'54
morning rise	5352 Sep 22 08:09	20° m 45'19		morning rise	5353 Sep 03 10:02	2° m 28'01	
direct	5352 Sep 24 19:22	20° m 26'27		direct	5353 Sep 06 03:49	2°Mp08'35	
morning max el	5352 Oct 03 08:23	24° My 30'32	18°49'25	morning max el	5353 Sep 16 02:35	6° My 46'55	19°50'41
asc. node	5352 Oct 05 22:16 5352 Oct 07 23:29	27° Mp 18′30 0° <u> </u>		asc. node	5353 Sep 22 19:20 5353 Oct 01 06:23	15° ™ 01'09 0° ≏	
morning set	5352 Oct 07 23.29 5352 Oct 19 19:09	0 <u>₽</u> 20° ₽ 50'27		morning set	5353 Oct 01 06.25 5353 Oct 03 22:50	5° £ 22'05	
morning set	5352 Oct 17 17:07 5352 Oct 24 11:16	0°M		morning set	3333 OCT 03 22:30	3 — 22 03	
				superior conj	5353 Oct 11 18:14	21° ≏ 10′56	1°39'34
superior conj	5352 Oct 28 07:41	7°M24'52	1°27'39	minimum elong	5353 Oct 11 19:48	21° ≏ 18'42	1°39'30
minimum elong	5352 Oct 28 10:45	7°M39'23	1°27'23		5353 Oct 16 06:50	0° M ₊	
max. Earth dist.	5352 Nov 04 09:29	20°M24'28	1.39308 AU	max. Earth dist.	5353 Oct 17 14:29	2°M29'33	1.37221 AU
evening rise	5352 Nov 08 07:49	27°M14'14		evening rise	5353 Oct 21 09:02	9°M25'08	
desc. node	5352 Nov 09 23:04 5352 Nov 11 03:58	0° ₰ 2° ₰ 00'14		desc. node	5353 Oct 29 01:00 5353 Nov 02 16:42	22° M .34'31 0° ∡ 7	
desc. Hode	5352 Nov 11 05:58 5352 Nov 29 15:59	2×0014 0°る			5353 Nov 02 10:42 5353 Nov 25 11:15	0° ਠ	
evening max el	5352 Dec 13 13:21	16° る 52'32	24°17'57	evening max el	5353 Nov 26 01:53	0° ರ 36'14	25°32'02
retrograde	5352 Dec 24 19:39	23° る 28'44		retrograde	5353 Dec 08 07:00	7° る 37'19	
evening set	5352 Dec 30 04:29	21° る 14'26		evening set	5353 Dec 14 05:15	5° る 09'49	
asc. node	5353 Jan 01 21:30	18° ろ 24'48		min. Earth dist.	5353 Dec 18 14:27	0° る 21'29	0.67211 AU
min. Earth dist.	5353 Jan 03 21:04	15°₹51'41	0.67849 AU		5353 Dec 18 21:11	30°R.✓	0001125
inferior conj	5353 Jan 04 16:03 5353 Jan 04 14:47	14°₹47′50	0°55'28 0°54'58	inferior conj	5353 Dec 19 20:27	28° ⊀ 45'18 28° ⊀ 45'27	0°01'37
minimum elong morning rise	5353 Jan 04 14:47 5353 Jan 10 01:10	14°る52'08 8°る45'42	0°5458	minimum elong transit middle	5353 Dec 19 20:24 5353 Dec 19 20:24	28° × '45'27	0°01'36 0°01'36
direct	5353 Jan 10 01:10 5353 Jan 13 21:40	7°る20'57		transit begin	5353 Dec 19 20:24 5353 Dec 19 17:36	28° 🖈 54'25	0 01 30
morning max el	5353 Jan 21 16:03	11° る 45'52	20°15'11	transit end	5353 Dec 19 23:11	28° х 36′30	
_	5353 Feb 04 15:41	0° ≈		asc. node	5353 Dec 19 18:33	28° ≯ 51′23	
desc. node	5353 Feb 07 03:11	3° ≈ 39'13		morning rise	5353 Dec 25 11:54	22° ∡ 50′54	
morning set	5353 Feb 18 10:50	20°≈49'46		direct	5353 Dec 28 20:29	21° ∡ 46′01	
P 4 2	5353 Feb 24 07:51	0° ∀	1 42710 433	morning max el	5354 Jan 04 21:17	25° ₹ 40'41	19°14'02
max. Earth dist.	5353 Feb 28 12:07	6° ∺ 38'30	1.43719 AU	greatest brilliancy	5354 Jan 08 16:04 5354 Jan 18 09:26	0°る 13°る49'24	-0.7m
superior conj	5353 Mar 06 10:35	16° ₩ 17'27	-2°08'34	desc. node	5354 Jan 25 00:13	13 3 4924 23° る 57'19	-0.7111
minimum elong	5353 Mar 06 08:55	16°) 10′35		morning set	5354 Jan 28 11:23	29° る 19'07	
	5353 Mar 14 14:14	$0^{\circ}\mathbf{\Upsilon}$			5354 Jan 28 21:56	0° ≈	
evening rise	5353 Mar 19 03:41	7° Y 52'36		max. Earth dist.	5354 Feb 11 02:22	20° ≈ 35′22	1.44879 AU
asc. node	5353 Mar 30 20:47	27° Ƴ 33'43					
	5353 Apr 01 12:52	0°8		superior conj	5354 Feb 14 04:24	25°≈28'07	
evening max el	5353 Apr 12 03:13	5° 8 02'56	18°08'16	minimum elong	5354 Feb 13 20:35	24°≈57'06 0°) €	1°53'05
retrograde evening set	5353 Apr 12 03:13 5353 Apr 14 22:39	8° 8 25'12 7° 8 45'29		evening rise	5354 Feb 17 00:39 5354 Feb 28 16:16	18° ∺ 57'35	
inferior conj	5353 Apr 14 22:39 5353 Apr 21 04:31	2° 8 34'43	3°19'25	Creming rise	5354 Mar 07 08:38	0° Υ	
minimum elong	5353 Apr 21 06:23		3°19'10	asc. node	5354 Mar 17 17:50	15° Ƴ 39'02	
3	5353 Apr 23 15:26	30° R Υ		evening max el	5354 Mar 20 05:06	18° Ƴ 27'12	18°25'51
min. Earth dist.	5353 Apr 24 01:10	29° Ƴ 35′19	0.62436 AU	retrograde	5354 Mar 26 16:33	21° Y 58'13	
morning rise	5353 Apr 27 12:38	26° Y 30′25		evening set	5354 Mar 29 18:21	21° Y 06'01	
direct	5353 May 04 08:38	23°Y58'56		inferior conj	5354 Apr 04 14:23	15° Y 37'07	
desc. node	5353 May 06 02:26	24° Y 08′02		minimum elong	5354 Apr 04 14:39	15° Ƴ 36′20	3~31'56

min. Earth dist.	5354 Apr 06 20:11	13° Y ′00'30	0.64375 AU	inferior conj	5355 Mar 19 09:45	28°) € 57'56	3°27'50
morning rise	5354 Apr 10 10:09	9° Υ 25'27	0.0.370110	minimum elong	5355 Mar 19 08:40	29° \ 01'20	3°27'45
direct	5354 Apr 17 04:44	6° Υ 38'15		min. Earth dist.	5355 Mar 20 23:58	26°) 57'12	0.65947 AU
desc. node	5354 Apr 22 23:26	8° Ƴ 19'05		morning rise	5355 Mar 24 20:44	22°) 43'29	
morning max el	5354 Apr 30 19:55	14° Ƴ 35'19	27°27'03	direct	5355 Mar 31 07:35	19° ¥ 54'20	
C	5354 May 13 08:37	0°8		desc. node	5355 Apr 09 20:28	24° ¥ 25′16	
	5354 May 31 16:55	0°Щ		morning max el	5355 Apr 13 05:49	27°) 34′22	26°31'35
morning set	5354 Jun 05 00:47	8° Ⅱ 15'51			5355 Apr 15 12:49	0 ° Υ	
max. Earth dist.	5354 Jun 09 19:57	17° Ⅱ 57′20	1.33305 AU		5355 May 07 01:18	0° 8	
				morning set	5355 May 19 05:56	21° 8 23'52	
superior conj	5354 Jun 13 02:40	24° Ⅱ 50'57	-0°06'15	max. Earth dist.	5355 May 23 08:45	29° 8 20'59	1.34673 AU
minimum elong	5354 Jun 13 02:59	24° ∏ 52'38	0°06'11		5355 May 23 16:38	Π °0	
behind sun begin	5354 Jun 12 21:55	24° Ⅱ 25'44					
behind sun end	5354 Jun 13 08:03	25° Ⅱ 19'34		superior conj	5355 May 28 01:20	8° Ⅱ 49'40	
asc. node	5354 Jun 13 17:06	26° Ⅱ 07'52		minimum elong	5355 May 28 03:17	8° Ⅱ 59'44	0°35'22
	5354 Jun 15 12:28	0 \circ \odot		asc. node	5355 May 31 14:08	16° Ⅱ 10'53	
evening rise	5354 Jun 20 06:37	10° © 10'11		evening rise	5355 Jun 04 15:42	24° ∏ 40'52	
	5354 Jun 30 13:03	0 $^{\circ}\Omega$			5355 Jun 07 06:03	0 \circ 50	
evening max el	5354 Jul 11 19:09	15° Ω 05'58	22°24'47	evening max el	5355 Jun 23 17:24	25°9546'50	20°55'24
desc. node	5354 Jul 19 22:44	20° Ω 39'26			5355 Jun 29 09:17	0°N	
retrograde	5354 Jul 24 19:49	21° Ω 34'27		retrograde	5355 Jul 05 08:12	1° Ω 29'31	
evening set	5354 Jul 27 22:37	21°Ω13'03	0.55006.444	desc. node	5355 Jul 06 19:42	1° Ω 24'16	
min. Earth dist.	5354 Aug 05 02:01		0.55096 AU	evening set	5355 Jul 07 11:57	1° Ω 18'29	
inferior conj	5354 Aug 06 02:39	17° Ω 05'42			5355 Jul 11 17:27	30°₹©	2054121
minimum elong	5354 Aug 05 18:26	17° Ω 17'21	4°27'27	inferior conj	5355 Jul 16 19:40	27°521'18	
morning rise	5354 Aug 14 16:07	13° Ω 15'52		minimum elong	5355 Jul 16 11:52	27°532'19	
direct	5354 Aug 17 19:20 5354 Aug 29 08:30	12° Ω 53'35 18° Ω 16'57	21912106	min. Earth dist. morning rise	5355 Jul 17 12:40 5355 Jul 25 11:47	26°\$57'15 23°\$21'25	0.54800 AU
morning max el	5354 Sep 07 13:58	0° m)	21 13 00	direct	5355 Jul 29 04:25	23 3 21 23 22° 3 52'06	
asc. node	5354 Sep 09 16:21	3°Mg 29'08		morning max el	5355 Aug 11 03:40	29° © 04'13	22°51'51
morning set	5354 Sep 18 07:07	20° Mp 06'20		morning max ci	5355 Aug 11 03:40 5355 Aug 12 02:47	0°Ω	22 31 31
morning set	5354 Sep 23 00:29	0° Ω		asc. node	5355 Aug 12 02:47 5355 Aug 27 13:23	22° Ω 31'39	
	555 i Sep 25 00.27	о —		use. Hode	5355 Aug 31 08:36	0° m)	
superior conj	5354 Sep 25 15:15	5° Ω 27'17	1°43'22	morning set	5355 Sep 02 18:01	4° m) 57'46	
minimum elong	5354 Sep 25 15:18	5° Ω 27'33	1°43'22				
max. Earth dist.	5354 Sep 30 00:26	14° ≏ 21'25	1.35360 AU	superior conj	5355 Sep 09 19:26	20° m) 04'17	1°40'16
evening rise	5354 Oct 04 04:40	22° Ω 26'59		minimum elong	5355 Sep 09 18:17	19° m 58'04	1°40'12
	5354 Oct 08 07:18	0°M		max. Earth dist.	5355 Sep 12 19:02	26° m/22'27	1.33863 AU
desc. node	5354 Oct 15 22:02	12°M55'26			5355 Sep 14 13:07	0∘ ⊽	
	5354 Oct 27 10:41	0°⊀		evening rise	5355 Sep 17 14:28	6° ≏ 08'41	
evening max el	5354 Nov 08 14:42	14° ∡ 18′24	26°33'08		5355 Sep 30 22:28	0° M	
retrograde	5354 Nov 21 13:05	21° ∡ ³32'43		desc. node	5355 Oct 02 19:03	2°M56'44	
evening set	5354 Nov 28 00:10	18° ≯ 56′01		evening max el	5355 Oct 22 03:28	27° M 49'56	27°13'48
min. Earth dist.	5354 Dec 02 02:43	14° ∡ °42'49	0.66223 AU		5355 Oct 24 13:30	0° ∡ ¹	
inferior conj	5354 Dec 03 20:04	12° ≯ 38'51	-0°57'27	retrograde	5355 Nov 04 13:12	5° ∡ 07'50	
minimum elong	5354 Dec 03 21:40	12° ∡ ³34'04	0°56'46	evening set	5355 Nov 11 10:57	2° ≯ 28'16	
asc. node	5354 Dec 06 15:35	9° ∡ 27'35			5355 Nov 14 04:43	30°RM	
morning rise	5354 Dec 09 19:53	6° ₹ 54'41		min. Earth dist.	5355 Nov 15 07:29	28°M50'02	0.64888 AU
direct	5354 Dec 12 18:32	6° ₹ 06'04	10000:10	inferior conj	5355 Nov 17 12:43	26°M23'49	
morning max el	5354 Dec 19 09:00	9° ∡ 741'30	18°28'49	minimum elong	5355 Nov 17 16:13	26°M14'11	1°58'45
	5355 Jan 02 19:05	0°る		morning rise	5355 Nov 23 22:38	20°M.53'01	
morning set	5355 Jan 08 11:38	9° る 03'46		asc. node	5355 Nov 23 12:36	21°M05'16	
desc. node	5355 Jan 11 21:15	14°る28'39 0°≈		direct	5355 Nov 26 13:34	20°M16'48	10000127
	5355 Jan 21 17:12	0°≈		morning max el	5355 Dec 03 00:46	23°M42'46 0°⊀	18°00'27
superior aoni	5255 Ion 24 09:01	100006125	1010/25	morning sot	5355 Dec 08 02:35	0 x . 20° x 17'46	
superior conj minimum elong	5355 Jan 24 08:01 5355 Jan 23 23:00	4°≈06'25 3°≈31'04		morning set	5355 Dec 20 17:38 5355 Dec 26 14:27	20° メ ・1/46 0° る	
max. Earth dist.	5355 Jan 24 20:46	4°≈56'23	1.45343 AU	desc. node	5355 Dec 29 18:18	5°る09'17	
evening rise	5355 Feb 09 05:27	29°≈05'40	2.15545710	desc. Hode	5555 Dec 27 10.10	5 00717	
	5355 Feb 09 19:11	0° ∀		superior conj	5356 Jan 03 17:19	13° る 07'39	-0°34'07
greatest brilliancy	5355 Feb 18 18:31	14° 米 09'50	-0.8m	minimum elong	5356 Jan 03 13:10	13° る 51'04	
J. IIII St Similancy	5355 Nar 01 20:21	0°Υ	~ · ~ · · ·	max. Earth dist.	5356 Jan 07 16:32	12 3 51 04	1.45061 AU
evening max el	5355 Mar 03 15:05	1° Υ 57'36	19°01'08	dibt.	5356 Jan 14 10:58	0° ≈	
asc. node	5355 Mar 04 14:52	2° Υ 55'02		evening rise	5356 Jan 19 23:20	8° ≈ 32'08	
retrograde	5355 Mar 10 11:32	5° Υ 49'01		greatest brilliancy	5356 Feb 02 23:48	29° ≈ 51'13	-0.6m
evening set	5355 Mar 13 20:13	4° Υ 43'29		<u> </u>	5356 Feb 03 02:11	0° ∀	
2				evening max el	5356 Feb 14 20:40	15°) (31'01	19°52'30
	5355 Mar 18 13:58	30° Ŗ ₩		evening max er	3330 FCU 14 20.40	13 / 3101	19 32 30

	525 (E-k 10 11.51	19° ¥ 08'40			5257 E-1- 05 07-21	40 W 05110	
asc. node	5356 Feb 19 11:51			retrograde	5357 Feb 05 07:31	4° ¥ 05'10	
retrograde	5356 Feb 22 09:15	19°) € 52'53		asc. node	5357 Feb 05 08:52	4°) €05'09	
evening set	5356 Feb 26 01:55	18°) (33′09	2010150	evening set	5357 Feb 09 09:28	2°) € 30'36	
inferior conj	5356 Mar 02 11:39	12°) (32′58			5357 Feb 11 22:00	30°R ≈	
minimum elong	5356 Mar 02 09:41	12°) (39′32		inferior conj	5357 Feb 14 17:36	26° ≈ 18′22	
min. Earth dist.	5356 Mar 03 11:14	11°) 14′08	0.67094 AU	minimum elong	5357 Feb 14 15:14	26° ≈ 26'33	2°42'54
morning rise	5356 Mar 07 17:14	6° ∺ 18'13		min. Earth dist.	5357 Feb 15 04:00	25° ≈ 42′29	0.67807 AU
direct	5356 Mar 13 16:05	3°) 38′42		morning rise	5357 Feb 19 20:49	20° ≈ 05′00	
morning max el	5356 Mar 25 14:57	10°) 47′13	25°14'56	direct	5357 Feb 25 05:34	17° ≈ 43′01	
desc. node	5356 Mar 26 17:31	11° ¥ 56′02		morning max el	5357 Mar 07 23:48	24° ≈ 07'51	23°47'21
	5356 Apr 09 21:55	0 ° Υ			5357 Mar 13 05:32	0° ∀	
	5356 Apr 28 17:09	0°B		desc. node	5357 Mar 13 14:34	0° ∺ 27'30	
morning set	5356 Apr 30 19:00	3° 8 41'49			5357 Apr 03 08:16	0° Y	
max. Earth dist.	5356 May 04 10:54	10° 8 24'53	1.36482 AU	morning set	5357 Apr 12 10:23	14° Ƴ 55'14	
				max. Earth dist.	5357 Apr 16 06:51	21° Y 37'12	1.38600 AU
superior conj	5356 May 10 14:45	22° 8 17'05	-1°05'39		5357 Apr 20 22:08	0°B	
minimum elong	5356 May 10 18:25	22° 8 35'14	1°05'03		•		
	5356 May 14 11:07	0°П		superior conj	5357 Apr 23 15:22	5° 8 04'26	-1°33'37
asc. node	5356 May 17 11:09	6°∏05'42		minimum elong	5357 Apr 23 20:18	5° 8 27'40	
evening rise	5356 May 17 11:09 5356 May 18 20:18	8° П 53'38		evening rise	5357 May 02 17:48	22° 8 41'31	1 33 00
evening rise	5356 May 30 10:28	0.2 0.1		asc. node	5357 May 02 17:48 5357 May 04 08:10	25° 8 48'10	
avanina may al	5356 Jun 05 03:59	7° © 06'37	19°43'00	asc. nouc	5357 May 04 08:10 5357 May 06 12:44	0°Ⅱ	
evening max el			19 43 00		•	0 П 19°П08'30	10050142
retrograde	5356 Jun 15 01:24	11°957'03		evening max el	5357 May 19 02:09		18°50'43
evening set	5356 Jun 16 23:21	11°5546'59		retrograde	5357 May 27 10:22	23° Ⅱ 14'19	
desc. node	5356 Jun 22 16:44	9° © 35'17		evening set	5357 May 29 12:24	22° Ⅱ 59'56	
inferior conj	5356 Jun 25 19:21	7° 5 544'11		inferior conj	5357 Jun 06 13:09	18° Ⅱ 41'05	0°52'37
minimum elong	5356 Jun 25 16:47	7° 5 48'10	0°54'56	minimum elong	5357 Jun 06 15:08	18° Ⅲ 37'31	0°51'54
min. Earth dist.	5356 Jun 28 01:18	6°\$20'28	0.55465 AU	min. Earth dist.	5357 Jun 09 17:33	16° Ⅲ 24'01	0.56962 AU
morning rise	5356 Jul 04 08:01	3° © 15'31		desc. node	5357 Jun 09 13:45	16° Ⅲ 30'35	
direct	5356 Jul 08 19:30	2° © 31'08		morning rise	5357 Jun 14 14:31	13° Ⅱ 35'45	
morning max el	5356 Jul 22 17:28	9° © 26'44	24°35'59	direct	5357 Jun 20 00:19	12° Ⅲ 25′01	
	5356 Aug 07 00:04	$0 {\circ} \Omega$		morning max el	5357 Jul 04 08:29	19° Ⅱ 53'01	26°09'44
asc. node	5356 Aug 13 10:25	11° Ω 59′20			5357 Jul 12 23:43	0 \circ	
morning set	5356 Aug 17 05:45	19° Ω 50'33			5357 Jul 30 11:06	$0^{\circ}\Omega$	
	5356 Aug 21 22:31	0° m)		asc. node	5357 Jul 31 07:28	1° Ω 45′06	
				morning set	5357 Aug 01 16:45	4° Ω 39'39	
superior conj	5356 Aug 24 04:10	4° m 53'11	1°31'17				
superior conj minimum elong	•	4° m 53'11 4° m 42'31	1°31'17 1°31'04	superior conj	5357 Aug 08 15:24	19° Ω 47'25	1°17'09
	5356 Aug 24 02:13	•		superior conj minimum elong	5357 Aug 08 15:24 5357 Aug 08 13:06	19° Ω 47'25 19° Ω 34'46	
minimum elong max. Earth dist.	5356 Aug 24 02:13 5356 Aug 25 22:00	4° Mp 42'31	1°31'04	1 ,	5357 Aug 08 13:06	19° Ω 34'46	
minimum elong	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39	4° m/42'31 8° m/40'21	1°31'04	minimum elong	5357 Aug 08 13:06 5357 Aug 09 06:46	19° Ω 34'46 21° Ω 12'11	1°16'49
minimum elong max. Earth dist. evening rise	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43	4° m/42'31 8° m/40'21 20° m/19'02 0° <u>o</u>	1°31'04	minimum elong max. Earth dist.	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36	19° Ω 34'46 21° Ω 12'11 0° m	1°16'49
minimum elong max. Earth dist.	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02	4° M 42'31 8° M 40'21 20° M 19'02 0° Ω 22° Ω 29'19	1°31'04	minimum elong	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12	19° A 34'46 21° A 12'11 0° M 4° M 49'23	1°16'49
minimum elong max. Earth dist. evening rise desc. node	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28	4° m 42'31 8° m 40'21 20° m 19'02 0° <u>ፍ</u> 22° <u>ፍ</u> 29'19 0° M	1°31'04 1.32782 AU	minimum elong max. Earth dist.	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39	19° £34'46 21° £12'11 0° m/ 4° m/49'23 0° £	1°16'49
minimum elong max. Earth dist. evening rise desc. node evening max el	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17	4° m42'31 8° m40'21 20° m19'02 0° <u>ឆ</u> 22° <u>ឆ</u> 29'19 0° m 10° ጤ 56'58	1°31'04 1.32782 AU	minimum elong max. Earth dist. evening rise desc. node	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03	19° € 34'46 21° € 12'11 0° € 4° € 149'23 0° € 11° € 21'28	1°16'49 1.32129 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51	4° m 42'31 8° m 40'21 20° m 19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m 10° m 56'58 18° m 13'03	1°31'04 1.32782 AU	minimum elong max. Earth dist.	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43	19° € 34'46 21° € 12'11 0° № 4° № 49'23 0° € 11° € 21'28 23° € 26'50	1°16'49 1.32129 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40	4° m 42'31 8° m 40'21 20° m 19'02 0° Ω 22° Ω 29'19 0° M 10° M 56'58 18° M 13'03 15° M 39'40	1°31'04 1.32782 AU 27°27'18	minimum elong max. Earth dist. evening rise desc. node evening max el	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22	19° € 34'46 21° € 12'11 0° M 4° M 49'23 0° Ω 11° Ω 21'28 23° Ω 26'50 0° M	1°16'49 1.32129 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39	4° m 42'31 8° m 40'21 20° m 19'02 0° £ 22° £ 29'19 0° m 10° M 56'58 18° M 13'03 15° M 39'40 12° M 33'14	1°31'04 1.32782 AU 27°27'18 0.63223 AU	minimum elong max. Earth dist. evening rise desc. node	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27	19° \$\alpha 34'46 21° \$\alpha 12'11 0° \$\mathref{m}\$ 4° \$\mathref{m}\$49'23 0° \$\alpha\$ 11° \$\alpha 21'28 23° \$\alpha 26'50 0° \$\mathref{m}\$ 0° \$\mathref{m}\$39'15	1°16'49 1.32129 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40	4° m/42'31 8° m/40'21 20° m/19'02 0° Ω 22° Ω29'19 0° m. 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50	19° \$\alpha 34'46 21° \$\alpha 12'11 0° \$\mathref{m}\$ 4° \$\mathref{m}\$49'23 0° \$\alpha\$ 11° \$\alpha 21'28 23° \$\alpha 26'50 0° \$\mathref{m}\$ 0° \$\mathref{m}\$39'15 30° \$\mathref{R}\$\alpha\$	1°16'49 1.32129 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m. 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33	19° \$\Omega 34'46 21° \$\Omega 12'11 0° m 4° m/49'23 0° \Omega 11° \Omega 21'28 23° \Omega 26'50 0° m 0° m 39'15 30° \Omega \Omega 28° \Omega 23'52	1°16'49 1.32129 AU 27°08'46
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m. 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14	19° \$\Omega 34'46 21° \$\Omega 12'11 0° m 4° m/49'23 0° \Omega 11° \Omega 21'28 23° \Omega 26'50 0° m 0° m 39'15 30° \Omega 28° \Omega 23'52 25° \Omega 40'40	1°16'49 1.32129 AU 27°08'46
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48	19° \$\Omega 34'46 21° \$\Omega 12'11 0° m 4° m 49'23 0° \omega 11° \omega 21'28 23° \omega 26'50 0° m 0° m 39'15 30° \$\omega \omega 23'52 28° \omega 23'52 25° \omega 40'40 22° \omega 57'59	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09	19° \$\Omega 34'46 21° \$\Omega 12'11 0° m 4° m/49'23 0° \omega 11° \omega 21'28 23° \omega 26'50 0° m 0° m 39'15 30° R \omega 28° \omega 23'52 25° \omega 40'40 22° \omega 57'59 22° \omega 44'04	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45	19° \$\Omega 34'46 21° \$\Omega 12'11 0° m 4° m 49'23 0° \omega 11° \omega 21'28 23° \omega 26'50 0° m 0° m 39'15 30° R \omega 28° \omega 23'52 25° \omega 40'40 22° \omega 57'59 22° \omega 44'04 18° \omega 04'07	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° x '	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09	19° \Pi 34'46 21° \Pi 12'11 0° \mathred{m} 4° \mathred{m} 49'23 0° \Lambda 11° \Lambda 21'28 23° \Lambda 26'50 0° \mathred{m} 0° \mathred{m} 39'15 30° \R \Lambda 28° \Lambda 23'52 25° \Lambda 40'40 22° \Lambda 57'59 22° \Lambda 44'04 18° \Lambda 04'07 17° \Lambda 42'15	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42	19° \Pi 34'46 21° \Pi 12'11 0° \mathred{m} 4° \mathred{m} 49'23 0° \Lambda 11° \Lambda 21'28 23° \Lambda 26'50 0° \mathred{m} 0° \mathred{m} 39'15 30° \R \Lambda 28° \Lambda 23'52 25° \Lambda 40'40 22° \Lambda 57'59 22° \Lambda 44'04 18° \Lambda 04'07 17° \Lambda 42'15 18° \Lambda 51'32	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 02 00:42	4° m42'31 8° m40'21 20° m19'02 0° n 22° n29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° x 2° x 43'47	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13	4° m42'31 8° m40'21 20° m19'02 0° a 22° a29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° x 2° x 43'47	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28 0° \(\omega \)	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 02 00:42	4° m42'31 8° m40'21 20° m19'02 0° \(\odoldoor \) 22° \(\odoldoor \) 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° \(\sqrt \) 2° \(\sqrt \) 2° \(\sqrt \) 43'47 23° \(\sqrt \) 19'31	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 39'15 30° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28 0° \(\omega \) 16° \(\omega \) 02'24	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 02 00:42	4° m42'31 8° m40'21 20° m19'02 0° a 22° a29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° x 2° x 43'47	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Sep 29 17:27 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28 0° \(\omega \)	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 02 00:42 5356 Dec 14 00:32 5356 Dec 14 01:43	4° m42'31 8° m40'21 20° m19'02 0° \(\odoldoor \) 22° \(\odoldoor \) 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° \(\sqrt \) 2° \(\sqrt \) 2° \(\sqrt \) 43'47 23° \(\sqrt \) 19'31	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30 5357 Nov 15 02:23	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 39'15 30° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28 0° \(\omega \) 16° \(\omega \) 02'24	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 15 17:38 5356 Dec 02 00:42 5356 Dec 14 00:32 5356 Dec 14 01:43 5356 Dec 13 18:55	4° m42'31 8° m40'21 20° m19'02 0° \(\odols \) 22° \(\odols \) 22° \(\odols \) 29' 19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° \(\odols \) 20° \(\odols \) 21' 43'47 23° \(\odols \) 23° \(\odols \) 21' 43'47 23° \(\odols \) 23° \(\odols \) 21' 51'18	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30 5357 Nov 15 02:23	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 39'15 30° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28 0° \(\omega \) 16° \(\omega \) 02'24	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 28 02:39 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 14 00:32 5356 Dec 14 01:43 5356 Dec 14 08:31	4° m42'31 8° m40'21 20° m19'02 0° \(\odols \) 22° \(\odols \) 29' \(\odols \) 10° m. 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° \(\odols \) 2° \(\odols \) 43'47' 23° \(\odols \) 23° \(\odols \) 19'31 22° \(\odols \) 23° \(\odols \) 19'31 22° \(\odols \) 23° \(\odols \) 24'7'41	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30 5357 Nov 15 02:23 5357 Nov 22 18:59	19° \$\alpha 34'46 21° \$\alpha 12'11 0° m 4° m/49'23 0° \omega 11° \omega 21'28 23° \omega 26'50 0° m 0° m 39'15 30° R \omega 28° \omega 23'52 25° \omega 40'40 22° \omega 57'59 22° \omega 44'04 18° \omega 04'07 17° \omega 42'15 18° \omega 51'32 21° \omega 15'28 0° m 16° m 02'24 0° \$\sqrt{n}\$	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 02 00:42 5356 Dec 14 00:32 5356 Dec 14 01:43 5356 Dec 14 08:31 5356 Dec 15 15:20	4° m42'31 8° m40'21 20° m19'02 0° n 22° n29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° x 2° x 43'47 23° x 14'39 23° x 19'31 22° x 51'18 23° x 47'41 25° x 54'46	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30 5357 Nov 15 02:23 5357 Nov 25 10:12	19° £34'46 21° £12'11 0° m 4° m/49'23 0° £ 11° £21'28 23° £26'50 0° m 0° m.39'15 30° ££ 28° £23'52 25° £40'40 22° £57'59 22° £44'04 18° £04'07 17° £42'15 18° £51'32 21° £15'28 0° m 16° m.02'24 0° ₹ 4° ₹38'33	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45 17°56'54
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 06 16:55 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 02 00:42 5356 Dec 14 00:32 5356 Dec 14 08:31 5356 Dec 15 15:20 5356 Dec 18 03:25	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m. 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° « ** 2° «** 43'47 23° «** 14'39 23° «** 19'31 22° «** 55'1'18 23° «** 47'41 25° «** 54'46 0° « 5	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29 0°11'24 0°11'14	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	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 20 06:42 5357 Oct 30 08:29 5357 Nov 15 02:23 5357 Nov 25 10:12 5357 Nov 25 10:12 5357 Nov 25 10:12	19° £34'46 21° £12'11 0° m 4° m/49'23 0° £ 11° £21'28 23° £26'50 0° m 0° m.39'15 30° R£ 28° £23'52 25° £40'40 22° £57'59 22° £44'04 18° £04'07 17° £42'15 18° £51'32 21° £15'28 0° m 16° m.02'24 0° ₹ 4° ₹38'33 4° ₹54'35	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45 17°56'54
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.	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 09 02:39 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 14 00:32 5356 Dec 14 00:32 5356 Dec 14 08:31 5356 Dec 18 03:25 5356 Dec 20 10:11	4° m42'31 8° m40'21 20° m19'02 0° <u>a</u> 22° <u>a</u> 29'19 0° m. 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° « / 2° « 43'47 23° « 41'43 23° « 41'43 23° « 47'41 25° « 45'446 0° « / 3° « / 54'46 0° « / 3° « / 54'46 0° « / 3° « / 54'41	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29 0°11'24 0°11'14	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 superior conj minimum elong desc. node	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 10 11:14 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 20 06:42 5357 Oct 30 08:29 5357 Nov 15 02:23 5357 Nov 25 10:12 5357 Nov 25 10:12 5357 Dec 02 12:20	19° \$\alpha 34'46 21° \$\alpha 12'11 0° m 4° m 49'23 0° \overline{a} 11° \overline{a} 21'28 23° \overline{a} 26'50 0° m 0° m 39'15 30° R \overline{a} 28° \overline{a} 23'52 25° \overline{a} 40'40 22° \overline{a} 57'59 22° \overline{a} 44'04 18° \overline{a} 04'07 17° \overline{a} 42'15 18° \overline{a} 51'32 21° \overline{a} 15'28 0° m 16° m 02'24 0° \$\verline{a}' 4° \$\verline{a} 38'33 4° \$\verline{a} 54'35 16° \$\verline{a} 41'46	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45 17°56'54 0°49'10 0°48'41
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.	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 09 02:39 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 14 00:32 5356 Dec 14 00:32 5356 Dec 14 08:31 5356 Dec 18 03:25 5356 Dec 29 09:29	4° m42'31 8° m40'21 20° m19'02 0° n 22° n29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° x 2° x 43'47 23° x 14'39 23° x 14'39 23° x 14'39 23° x 14'41 25° x 54'46 0° \to 3° \to 40'41 17° \to 46'10	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29 0°11'24 0°11'14	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 superior conj minimum elong desc. node max. Earth dist.	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30 5357 Nov 15 02:23 5357 Nov 25 10:12 5357 Nov 25 10:12 5357 Dec 02 12:20 5357 Dec 02 23:02	19° \(\Omega \) 34'46 21° \(\Omega \) 12'11 0° \(\omega \) 4° \(\omega \) 49'23 0° \(\omega \) 11° \(\omega \) 21'28 23° \(\omega \) 26'50 0° \(\omega \) 0° \(\omega \) 28° \(\omega \) 23'52 25° \(\omega \) 40'40 22° \(\omega \) 57'59 22° \(\omega \) 44'04 18° \(\omega \) 04'07 17° \(\omega \) 42'15 18° \(\omega \) 51'32 21° \(\omega \) 15'28 0° \(\omega \) 16° \(\omega \) 0° \(\omega \) 4° \(\omega \) 38'33 4° \(\omega \) 54'35 16° \(\omega \) 41'46 17° \(\omega \) 25'59	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45 17°56'54 0°49'10 0°48'41
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	5356 Aug 24 02:13 5356 Aug 25 22:00 5356 Aug 31 10:39 5356 Sep 05 08:43 5356 Sep 18 16:02 5356 Sep 24 00:28 5356 Oct 03 14:17 5356 Oct 17 06:51 5356 Oct 24 10:40 5356 Oct 30 19:40 5356 Oct 31 01:00 5356 Nov 09 02:39 5356 Nov 09 02:39 5356 Nov 09 09:38 5356 Nov 15 17:38 5356 Nov 30 11:13 5356 Dec 14 00:32 5356 Dec 14 00:32 5356 Dec 14 08:31 5356 Dec 18 03:25 5356 Dec 29 09:29 5357 Jan 06 10:39	4° m42'31 8° m40'21 20° m19'02 0° Ω 22° Ω29'19 0° m 10° m.56'58 18° m.13'03 15° m.39'40 12° m.33'14 9° m.52'42 9° m.39'32 4° m.38'46 4° m.11'19 4° m.11'44 7° m.36'39 0° ♂ 2° ♂ 43'47 23° ♂ 14'39 23° ♂ 19'31 22° ♂ 51'18 23° ♂ 47'41 25° ♂ 54'46 0° ♂ 3° ♂ 40'41 17° ♂ 46'10 0° ≈	1°31'04 1.32782 AU 27°27'18 0.63223 AU -3°04'02 3°02'09 17°49'29 0°11'24 0°11'14	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 superior conj minimum elong desc. node max. Earth dist.	5357 Aug 08 13:06 5357 Aug 09 06:46 5357 Aug 13 07:36 5357 Aug 15 14:12 5357 Aug 29 00:39 5357 Sep 05 13:03 5357 Sep 15 20:43 5357 Sep 25 19:22 5357 Oct 03 12:50 5357 Oct 06 19:33 5357 Oct 10 11:14 5357 Oct 13 13:48 5357 Oct 13 20:09 5357 Oct 20 22:45 5357 Oct 23 06:09 5357 Oct 27 06:42 5357 Oct 30 08:29 5357 Nov 05 23:30 5357 Nov 15 02:23 5357 Nov 25 13:59 5357 Nov 25 10:12 5357 Dec 02 23:02 5357 Dec 02 23:02 5357 Dec 02 23:02 5357 Dec 09 03:44	19° \$\alpha 34'46 21° \$\alpha 12'11 0° m 4° m 49'23 0° \overline 11° \overline 21'28 23° \overline 26'50 0° m 0° m 39'15 30° \overline 28° \overline 23'52 25° \overline 40'40 22° \overline 57'59 22° \overline 44'04 18° \overline 04'07 17° \overline 42'15 18° \overline 51'32 21° \overline 15'28 0° m 16° m 02'24 0° \$\alpha' 4° \$\alpha' 38'33 4° \$\alpha' 54'35 16° \$\alpha' 41'46 17° \$\alpha' 25'59 27° \$\alpha' 26'25	1°16'49 1.32129 AU 27°08'46 0.61285 AU -4°04'29 4°02'45 17°56'54 0°49'10 0°48'41

evening max el	5358 Jan 10 15:34	12° ≈ 41'19	22°12'42		5358 Dec 28 10:25	0° ≈	
retrograde	5358 Jan 20 04:21	18° ≈ 21'31	22 12 72	retrograde	5359 Jan 03 22:17	2°≈38'35	
asc. node	5358 Jan 23 05:56	17° ≈ 31'58		evening set	5359 Jan 08 23:25	0°≈33'11	
evening set	5358 Jan 24 17:09	16° ≈ 31'33		evening sec	5359 Jan 09 14:15	30°Rる	
inferior conj	5358 Jan 30 01:29	10°≈10'40	2°07'26	asc. node	5359 Jan 10 02:59	29° る 28'38	
minimum elong	5358 Jan 29 23:10	10°≈18'41	2°06'41	inferior conj	5359 Jan 14 09:26	24° る 07'31	1°23'46
min. Earth dist.	5358 Jan 29 23:59	10°≈15'52	0.68116 AU	minimum elong	5359 Jan 14 07:39	24°る13'38	1°23'05
morning rise	5358 Feb 04 05:02	4°≈00'08	0.00110710	min. Earth dist.	5359 Jan 13 20:48	24°る50'45	0.68050 AU
direct	5358 Feb 08 23:11	1°≈59'50		morning rise	5359 Jan 19 15:50	18° る 01'37	0.00000110
morning max el	5358 Feb 18 10:49	7°≈34'46	22°18'35	direct	5359 Jan 23 19:59	16° ろ 24'02	
desc. node	5358 Feb 28 11:36	19° ≈ 42'00	22 1033	morning max el	5359 Feb 01 03:37	10 3 2+02 21° る 11'49	20°56'48
dese. Hode	5358 Mar 07 19:27	0° ∀		morning max cr	5359 Feb 08 13:17	0°≈	20 30 40
morning set	5358 Mar 23 22:25	24° ¥ 49'37		desc. node	5359 Feb 15 08:38	9° ≈ 27'46	
morning set	5358 Mar 27 01:59	0° Υ		dese. Hode	5359 Mar 01 01:25	0°) €	
max. Earth dist.	5358 Mar 29 03:35	3° Υ 27'37	1.40795 AU	morning set	5359 Mar 03 07:13	3° ¥ 29'17	
max. Lartii dist.	3330 Will 27 03.33	3 12/3/	1.40775710	max. Earth dist.	5359 Mar 11 06:59		1.42783 AU
superior conj	5358 Apr 05 22:37	17° Y ′00'16	-1°56'10	max. Earth dist.	5557 Will 11 00.57	10 7(1331	1.12703710
minimum elong	5358 Apr 06 03:19	17° Υ 21'17		superior conj	5359 Mar 18 07:37	27° ¥ 54'05	-2°08'25
minimum ciong	5358 Apr 13 00:55	0°8	1 33 47	minimum elong	5359 Mar 18 09:14	28° \ 00'56	
evening rise	5358 Apr 16 04:47	5° 8 55'05		minimum ciong	5359 Mar 19 13:13	0° Υ	2 00 23
asc. node	5358 Apr 21 05:13	15° 8 12'37		evening rise	5359 Mar 30 01:09	18° Y 25'22	
use. Houe	5358 Apr 30 17:39	0° Ⅱ		evening rise	5359 Apr 05 14:09	0°8	
evening max el	5358 May 02 08:44	1° Ⅱ 44'56	18°18'47	asc. node	5359 Apr 08 02:16	4° 8 12'58	
retrograde	5358 May 02 08:44 5358 May 09 14:06	5° Ⅱ 21'04	10 10 47	evening max el	5359 Apr 15 20:11	14° 8 46'53	18°06'35
evening set	5358 May 11 23:10	4° I I58'35		retrograde	5359 Apr 22 10:25	18° 8 09'33	10 00 33
inferior conj	5358 May 19 04:33	0° П 19'43	2°12'49	evening set	5359 Apr 25 02:20	17° 8 36'26	
minimum elong	5358 May 19 04:95	0° П 12'22	2°11'50	inferior conj	5359 May 01 15:36	12° 8 37'02	3°02'36
minimum clong	5358 May 19 13:50	30°R8	2 11 30	minimum elong	5359 May 01 18:30 5359 May 01 18:21	12° 8 30'19	3°02'04
min. Earth dist.	5358 May 22 14:57	27° 8 26'53	0.58998 AU	min. Earth dist.	5359 May 04 19:26	9° 8 33'13	0.61215 AU
morning rise	5358 May 26 13:50	24° 8 43'29	0.50770710	morning rise	5359 May 04 19:20 5359 May 08 08:21	6° 8 40'31	0.01213710
desc. node	5358 May 27 10:48	24° 8 16'25		desc. node	5359 May 14 07:50	4° 8 25'11	
direct	5358 Jun 01 19:22	22° 8 58'44		direct	5359 May 14 07:30 5359 May 15 01:49	4° 8 23'32	
direct	5358 Jun 15 09:18	0°Ⅱ		morning max el	5359 May 19 01:49 5359 May 29 07:18	12° 8 21'22	27°50'36
morning max el	5358 Jun 16 04:43		27°17'49	morning max er	5359 Jun 12 06:23	0°Ⅱ	27 30 30
morning max ci	5358 Jul 07 02:09	0°95	2/1/4/		5359 Jun 29 09:39	0° ©	
morning set	5358 Jul 17 01:19	19° © 19'02		morning set	5359 Jul 01 05:35	3° 5 643'11	
asc. node	5358 Jul 18 04:31	21° © 42'32		asc. node	5359 Jul 05 01:33	11° 9 °47'06	
asc. node	5358 Jul 22 00:25	0°Ω		max. Earth dist.	5359 Jul 07 03:38	16° © 18'15	1.32102 AU
max. Earth dist.	5358 Jul 23 17:51		1.31901 AU	max. Earth dist.	3339 Jul 07 03.36	10 31813	1.32102 AU
max. Lattii dist.	5556 Jul 25 17.51	J 01-010	1.51701 AC	superior conj	5359 Jul 08 13:54	19° © 25'38	0°35'55
superior conj	5358 Jul 24 03:13	4° Ω 40'05	0°58'31	minimum elong	5359 Jul 08 12:21	19° © 17'10	
minimum elong	5358 Jul 24 01:04	4°Ω28'10	0°58'08	minimum ciong	5359 Jul 13 09:36	0°Ω	0 33 33
evening rise	5358 Jul 30 22:33	19° Ω 31'24	0 30 00	evening rise	5359 Jul 15 09:37	4° Ω 18'38	
evening rise	5358 Aug 05 01:34	0° m)		evening rise	5359 Jul 29 00:31	0° m)	
desc. node	5358 Aug 23 10:04	29° Mp 16'26		desc. node	5359 Aug 10 07:06	15° Mp 51'10	
dese. Hode	5358 Aug 24 00:37	0° <u>م</u>		evening max el	5359 Aug 10 12:57	16° Mp 05'19	24°56'43
evening max el	5358 Aug 28 20:32	ა	26°16'57	retrograde	5359 Aug 10 12:57 5359 Aug 24 10:51	23° Mp 06'48	24 30 43
retrograde	5358 Sep 11 19:37	12° Ω 17'56	20 10 5 7	evening set	5359 Aug 29 21:55	21° mp 59'17	
evening set	5358 Sep 18 08:46	10° £ 33'00		min. Earth dist.	5359 Sep 04 00:25	=	0.57235 AU
min. Earth dist.	5358 Sep 22 09:46	7° ≏ 58'11	0.59207 AU	inferior conj	5359 Sep 06 21:51	17° m) 19'59	
inferior conj	5358 Sep 25 15:33	5° Ω 30'15		minimum elong	5359 Sep 06 22:54	17° mp 18'15	
minimum elong	5358 Sep 25 20:55		4°52'44	morning rise	5359 Sep	13° Mp 10'47	3 10 23
morning rise	5358 Oct 03 11:16	ე° ჲ 58'45	4 32 44	direct	5359 Sep 13 02:11 5359 Sep 17 15:51	12° Mp 51'51	
direct	5358 Oct 05 11:10 5358 Oct 05 19:53	0° ي 39'33		morning max el	5359 Sep 17 13:31 5359 Sep 26 18:20	17° Mp 09'29	19°12'49
morning max el	5358 Oct 13 17:53	4° ഫ 29'55	18°24'11	asc. node	5359 Oct 01 00:49	22° mp 04'38	1) 12 4)
asc. node	5358 Oct 13 17:35 5358 Oct 14 03:46	4° £ 54'17		200. 11040	5359 Oct 01 00:49 5359 Oct 06 03:20	22 ا بر 0438 0° Ω	
morning set	5358 Oct 29 17:18	29° ≏ 58'31		morning set	5359 Oct 13 17:14	ა — 14° Ω 19'47	
oig bot	5358 Oct 29 17:18 5358 Oct 29 17:37	0°M			330, 300 13 17.14	— 17 4/	
	5550 500 27 17.57	V IIV		superior conj	5359 Oct 21 21:38	0°M32'15	1°33'47
superior conj	5358 Nov 07 19:03	17° M .09'41	1°16'33	minimum elong	5359 Oct 21 21:38 5359 Oct 22 00:05	0°M44'09	1°33'47 1°33'37
minimum elong	5358 Nov 07 19:03 5358 Nov 07 22:44	17 1160941 17°M26'40	1°16'09	mmmum clong	5359 Oct 22 00:03 5359 Oct 21 14:59	0°M	1 3331
mmmum ciong	5358 Nov 14 23:38	0° √	1 1009	max. Earth dist.	5359 Oct 21 14.39 5359 Oct 28 12:02	12°M56'19	1.38405 AU
max. Earth dist.	5358 Nov 14 23:38 5358 Nov 15 06:53	0° x ′ 0° x ′31'15	1.40519 AU	evening rise	5359 Oct 28 12:02 5359 Nov 01 06:37	12°11636°19 19°11639'10	1.30403 AU
desc. node	5358 Nov 15 00:53 5358 Nov 19 09:22	7° × ⁷ 27'11	1.40317 AU	desc. node	5359 Nov 06 06:22	28°M06'43	
evening rise	5358 Nov 19 09:22 5358 Nov 19 17:45	8° × ¹ 01'53		acsc. Hour	5359 Nov 06 06:22 5359 Nov 07 10:00	28°11L06'43 0° x 7	
evening rise		0°중				0° X '	
evening max el	5358 Dec 03 20:21 5358 Dec 24 06:34	0°5 26° る 20'57	22022120	evening max el	5359 Nov 28 00:13 5359 Dec 06 19:38	0°5 10° 5 04'09	24050140
evening max er	3330 DEC 24 00.34	20 0203/	43 34 30	evening max er	3337 DCC 00 19.38	10 00409	44 JU4U

ratrograda	5359 Dec 18 12:05	16° る 51'38		evening rise	5360 Oct 13 16:12	2°M13'05	
retrograde evening set	5359 Dec 18 12:05 5359 Dec 24 02:38	10 さ 31 38		desc. node	5360 Oct 13 10:12 5360 Oct 23 03:24	18°M36'09	
asc. node	5359 Dec 24 02:38 5359 Dec 28 00:02	14 3 31 33		desc. Hode	5360 Oct 23 03:24 5360 Oct 30 11:20	0° √	
min. Earth dist.	5359 Dec 28 16:03	9° そ 23'21	0.67624 AU	evening max el	5360 Nov 18 08:15	23° х 48'09	26°00'00
inferior conj	5359 Dec 29 15:38	8°る05'32	0°33'21	evening max er	5360 Nov 26 19:04	0° 궁	20 00 00
minimum elong	5359 Dec 29 14:49	8°る08'12	0°33'02	retrograde	5360 Nov 30 21:06	0° る 55'37	
morning rise	5360 Jan 04 03:10	2°る06'18	0 33 02	renograde	5360 Dec 04 15:38	0 ℃3337 30°R <i>X</i> 7	
direct	5360 Jan 07 18:29	2 300 18 0° る 50'10		ovening set	5360 Dec 04 13:38 5360 Dec 07 01:08	28° ₹ 23'26	
	5360 Jan 15 04:18	5°る00'28	19°47'17	evening set min. Earth dist.		23° x 23 20 23° x 50'15	0.66940.411
morning max el					5360 Dec 11 07:25		0.66840 AU
greatest brilliancy	5360 Jan 28 07:22	22°る13'49	-0.6m	inferior conj	5360 Dec 12 18:13	22° ₹ 01'39	
desc. node	5360 Feb 02 05:38	29° ප 35'51		minimum elong	5360 Dec 12 18:49	21° 🖈 59'46	0°22'36
	5360 Feb 02 12:02	0° ≈		asc. node	5360 Dec 13 21:04	20° ₹ 38'50	
morning set	5360 Feb 10 03:26	11°≈40'48		morning rise	5360 Dec 18 13:01	16° √ 11′29	
	5360 Feb 21 20:31	0° ∀		direct	5360 Dec 21 17:11	15° ₹ 13'55	
max. Earth dist.	5360 Feb 21 18:15	29° ≈ 50'59	1.44302 AU	morning max el	5360 Dec 28 12:34	18° ₹ 58'40	18°52'50
		>/			5361 Jan 06 02:40	0°る 	
superior conj	5360 Feb 26 15:02	7° ∺ 39'16		desc. node	5361 Jan 19 02:40	20° ට 00'11	
minimum elong	5360 Feb 26 10:35	7° ∺ 21'13	2°04'31	morning set	5361 Jan 19 12:17	20° る 37'51	
evening rise	5360 Mar 11 02:24	0° Υ 02'58			5361 Jan 25 12:00	0° ≈	
	5360 Mar 11 01:42	0° Υ		max. Earth dist.	5361 Feb 03 11:06	14° ≈ 02'05	1.45173 AU
asc. node	5360 Mar 24 23:18	22° Y 40'55					
evening max el	5360 Mar 29 09:08	28° Y 04'50	18°13'29	superior conj	5361 Feb 05 00:45	16° ≈ 30'03	-1°41'15
	5360 Mar 31 15:13	$8^{\circ 0}$		minimum elong	5361 Feb 04 15:31	15° ≈ 53'44	1°40'24
retrograde	5360 Apr 04 18:51	1° 8 28'58			5361 Feb 13 13:08	0° ∀	
evening set	5360 Apr 07 17:06	0° ႘ 43'53		evening rise	5361 Feb 20 05:02	10°) (43′29	
	5360 Apr 08 22:19	30° ŖƳ			5361 Mar 04 05:28	0° Υ	
inferior conj	5360 Apr 13 18:18	25° Y 25′02	3°27'01	asc. node	5361 Mar 11 20:19	10° Y 26'42	
minimum elong	5360 Apr 13 19:29	25° Y 21'46	3°26'56	evening max el	5361 Mar 12 20:47	11° Y 31'55	18°38'42
min. Earth dist.	5360 Apr 16 08:47	22° Ƴ 33'37	0.63307 AU	retrograde	5361 Mar 19 11:07	15° Ƴ 10′27	
morning rise	5360 Apr 19 20:47	19° Ƴ 17'07		evening set	5361 Mar 22 15:45	14° Ƴ 12'36	
direct	5360 Apr 26 17:08	16° Ƴ 37'32		inferior conj	5361 Mar 28 08:37	8° Y 36'05	3°31'58
desc. node	5360 Apr 30 04:52	17° Ƴ 14'12		minimum elong	5361 Mar 28 08:16	8° Ƴ 37'08	3°31'58
morning max el	5360 May 10 14:55	24° Y 37'08	27°45'47	min. Earth dist.	5361 Mar 30 07:38	6° Ƴ 13'48	0.65093 AU
Č	5360 May 15 11:58	0°8		morning rise	5361 Apr 03 00:13	2° Y 22'41	
	5360 Jun 04 16:13	0°Щ			5361 Apr 06 23:28	30° ₹	
morning set	5360 Jun 14 03:20	17° Ⅱ 45′28		direct	5361 Apr 09 16:00	29°) 33'23	
max. Earth dist.	5360 Jun 19 08:15	28° Ⅲ 30'11	1.32737 AU		5361 Apr 12 11:56	0°Υ	
	5360 Jun 20 01:09	0ಂ ತಾ	-10-707-110	desc. node	5361 Apr 17 01:53	2°Υ18'21	
asc. node	5360 Jun 20 22:35	1° 9 54'38		morning max el	5361 Apr 23 00:57	7° Υ 24'49	27°06'43
use. Houe	2500 Juli 20 22.55	1 3.30		morning max er	5361 May 10 11:45	0°8	27 00 15
superior conj	5360 Jun 21 21:36	3°958'27	0°09'58		5361 May 27 23:41	0°II	
minimum elong	5360 Jun 21 21:07	3°955'51	0°09'51	morning set	5361 May 27 25:41 5361 May 28 15:36	1° Ⅱ 16'31	
behind sun begin	5360 Jun 21 16:55	3° © 33'14	0 0931	max. Earth dist.	5361 Jun 02 03:49		1.33831 AU
behind sun end	5360 Jun 22 01:19	4°9518'29		max. Earth dist.	3301 Juli 02 03.49	10 щ13 12	1.33631 AU
evening rise		19° © 04'53		aumorior aoni	5261 Jun 06 00:14	18° Ⅱ 11'23	0010126
evening rise	5360 Jun 28 21:27 5360 Jul 04 05:29	0°Ω		superior conj minimum elong	5361 Jun 06 00:14 5361 Jun 06 01:13	18° П 16'32	
arranina marral			23°20'41	•			0 1823
evening max el	5360 Jul 22 01:24		23 20 41	asc. node	5361 Jun 07 19:35	22°∏00'18 0°©	
4 4-	5360 Jul 26 06:28	0°M)			5361 Jun 11 13:50		
desc. node	5360 Jul 27 04:06	0° mp 35'40		evening rise	5361 Jun 13 08:06	3°543'02	
retrograde	5360 Aug 04 13:37	3° Mp 15'40			5361 Jun 27 21:56	0° N	21045100
evening set	5360 Aug 08 12:55	2°Mp41'10		evening max el	5361 Jul 03 17:43	6° £ 54'43	21°45'00
	5360 Aug 14 13:58	30°R€	0.556555.433	desc. node	5361 Jul 14 01:08	12° Ω 54'58	
min. Earth dist.	5360 Aug 15 10:47	29° Ω 30'13		retrograde	5361 Jul 16 05:45	13° Ω 06'18	
inferior conj	5360 Aug 17 08:15	28° Ω 23'24		evening set	5361 Jul 18 20:35	12° Ω 50′50	
minimum elong	5360 Aug 17 02:46	28° Ω 31'30	5°01'28	inferior conj	5361 Jul 28 04:09	8° Ω 49'05	
morning rise	5360 Aug 25 18:58	24° Ω 30′54		minimum elong	5361 Jul 27 19:15	9° Ω 01'33	
direct	5360 Aug 28 16:42	24° Ω 10'27		min. Earth dist.	5361 Jul 27 20:40	8° Ω 59'33	0.54850 AU
morning max el	5360 Sep 08 07:17	29° Ω 06′23	20°23'23	morning rise	5361 Aug 05 19:17	4° Ω 57'52	
	5360 Sep 09 05:23	0° m		direct	5361 Aug 09 03:26	4° Ω 33'29	
asc. node	5360 Sep 16 21:51	10° Mp 08'14		morning max el	5361 Aug 21 08:18	10° Ω 17'17	21°53'42
morning set	5360 Sep 26 23:10	28° m 58'04		asc. node	5361 Sep 03 18:52	28° Ω 51'52	
	5360 Sep 27 11:15	0∘ ত			5361 Sep 04 09:53	0° m	
				morning set	5361 Sep 11 08:46	13°Mp45'53	
superior conj	5360 Oct 04 13:06	14° ≏ 32'47	1°42'06				
minimum elong	5360 Oct 04 14:00	14° ≏ 37′20	1°42'04	superior conj	5361 Sep 18 13:32	28° m 59'00	1°42'50
max. Earth dist.	5360 Oct 09 18:54	24° ≙ 54'40	1.36391 AU	minimum elong	5361 Sep 18 13:01	28° m 56'19	1°42'49
	5360 Oct 12 11:25	0° M.			5361 Sep 19 01:11	0∘ ⊽	

Fauth diet	52(1 9 22 09:11	(0 0 47120	1 24670 ATT	Earth diet	52(2 S 05 0C-14	100 m 52142	1 22240 ATT
max. Earth dist.	5361 Sep 22 08:11	6° £ 47'38	1.34670 AU	max. Earth dist.	5362 Sep 05 06:14	18° Mp 53'43	1.33349 AU
evening rise	5361 Sep 26 18:19	15° Ω 32'41		evening rise	5362 Sep 10 08:57	29° Tp 27'30	
	5361 Oct 04 16:38	0°M			5362 Sep 10 15:28	0∘ ⊽	
desc. node	5361 Oct 10 00:25	8°M49'22		desc. node	5362 Sep 26 21:26	28° ≏ 39'15	
	5361 Oct 25 01:27	0°⊀			5362 Sep 27 18:39	0°M₊	
evening max el	5361 Oct 31 20:56	7° ≯ 25'58	26°53'17	evening max el	5362 Oct 14 08:59	20°M47'51	27°23'14
retrograde	5361 Nov 14 00:47	14° ≯ 43'19		retrograde	5362 Oct 27 22:29	28°M06'17	
evening set	5361 Nov 20 16:53	12° ₹ 04'05		evening set	5362 Nov 03 23:23	25° ™ 28'01	
min. Earth dist.	5361 Nov 24 16:38	8° ₮ 06'12	0.65696 AU	min. Earth dist.	5362 Nov 07 17:38	22° ™ 03'50	0.64210 AU
inferior conj	5361 Nov 26 15:08	5° ∡ ¹51'39	-1°23'45	inferior conj	5362 Nov 10 04:00	19°M30'08	-2°27'24
minimum elong	5361 Nov 26 17:31	5° ∡ ¹44'45	1°22'44	minimum elong	5362 Nov 10 08:18	19° M 18'45	2°25'44
asc. node	5361 Nov 30 18:05	1° ∡ ³35'25		morning rise	5362 Nov 16 18:38	14°M06'08	
morning rise	5361 Dec 02 19:05	0° ∡ 13'05		asc. node	5362 Nov 17 15:08	13°M48'13	
	5361 Dec 03 06:21	30°RM₀		direct	5362 Nov 19 06:54	13°MJ34'14	
direct	5361 Dec 05 14:06	29°M30'21		morning max el	5362 Nov 25 19:01	16°M59'16	17°53'35
	5361 Dec 07 22:33	0° ∡ ¹			5362 Dec 05 04:09	0° ∡ ¹	
morning max el	5361 Dec 12 02:25	3° ₹ 00'38	18°14'43	morning set	5362 Dec 12 18:41	12° ∡ ¹47'24	
Ü	5361 Dec 30 10:15	0° る		Č	5362 Dec 23 01:31	0°₹	
morning set	5361 Dec 31 01:17	1°₹01'01		desc. node	5362 Dec 23 20:43	1° る 18'31	
desc. node	5362 Jan 05 23:42	10° る 35'53		4000. 11040	2302 200 23 20.13	1 01031	
desc. node	3302 Juli 03 23.12	10 33 33		superior conj	5362 Dec 25 21:33	4° ට 36'56	-0°14'14
superior conj	5362 Jan 15 04:16	25° ප 11'30	1001/01	minimum elong	5362 Dec 25 19:54	4°る30'15	
minimum elong	5362 Jan 14 20:52	23 3 1130 24° 3 42'22	1°00'04	behind sun begin	5362 Dec 25 14:48	4°る09'37	0 13 39
max. Earth dist.	5362 Jan 17 06:16	24 342 22 28° る 27'52	1.45307 AU	behind sun eegin	5362 Dec 25 14.48 5362 Dec 26 01:00	4° る 50'53	
max. Earth dist.	5362 Jan 18 05:46	28 3 27 32 0° ≈	1.43307 AU	max. Earth dist.	5362 Dec 20 01:00 5362 Dec 31 00:51		1.44710 AU
							1.44/10 AU
evening rise	5362 Jan 31 09:08	20°≈31'25		evening rise	5363 Jan 10 21:45	29° る 47'04	
	5362 Feb 06 10:58	0°) (3€111	0.5		5363 Jan 11 01:07	0° ≈	
greatest brilliancy	5362 Feb 12 00:52	8°) (36′11	-0.7m		5363 Jan 31 06:51	0°) {	20010110
evening max el	5362 Feb 24 05:02	25°) €04'00	19°21'06	evening max el	5363 Feb 07 08:21	8°) € 37'53	20°18'49
asc. node	5362 Feb 26 17:20	27°) 18′19		asc. node	5363 Feb 13 14:23	13° 米 00′49	
retrograde	5362 Mar 03 07:43	29°) €07'44		retrograde	5363 Feb 15 05:54	13°) 15′18	
evening set	5362 Mar 06 19:33	27° ¥ 56′24		evening set	5363 Feb 19 02:15	11°) 49′32	
inferior conj	5362 Mar 12 07:09	22°) 04′15	3°22'02	inferior conj	5363 Feb 24 11:04		3°00'25
minimum elong	5362 Mar 12 05:38	22° ₩ 09'10	3°21'52	minimum elong	5363 Feb 24 08:52	5°) 51′32	
min. Earth dist.	5362 Mar 13 15:00	20°) (20'47	0.66482 AU	min. Earth dist.	5363 Feb 25 04:58	4°) 43′16	0.67445 AU
morning rise	5362 Mar 17 15:25	15°) 49′08			5363 Mar 01 02:28	30° Ŗ ≈	
direct	5362 Mar 23 21:26	13°) €02'48		morning rise	5363 Mar 01 15:16	29° ≈ 29'37	
desc. node	5362 Apr 03 22:55	19°) 04'17		direct	5363 Mar 07 08:21	26° ≈ 56′29	
morning max el	5362 Apr 05 10:51	20° ℋ 32'07	26°01'00		5363 Mar 14 13:38	0° ∀	
	5362 Apr 13 14:24	0 ° Υ		morning max el	5363 Mar 18 19:30	3°) 48′05	24°38'23
	5362 May 03 15:19	8°		desc. node	5363 Mar 21 19:57	7°) €03'07	
morning set	5362 May 11 14:36	14° 8 05'40			5363 Apr 07 20:49	$0^{\circ}\Upsilon$	
max. Earth dist.	5362 May 15 11:50	21° 8 26'17	1.35392 AU	morning set	5363 Apr 23 19:12	25° Y 58'13	
	5362 May 19 20:00	$\Pi^{\circ}0$			5363 Apr 26 01:31	0°8	
	•			max. Earth dist.	5363 Apr 27 10:03		1.37357 AU
superior conj	5362 May 20 19:22	1° Ⅱ 58'01	-0°48'30		•		
minimum elong	5362 May 20 22:04	2° Ⅱ 11'41	0°48'00	superior conj	5363 May 04 03:51	15° 8 09'43	-1°17'56
asc. node	5362 May 25 16:36	12° Ⅱ 00'28		minimum elong	5363 May 04 08:09	15° 8 30'36	
evening rise	5362 May 28 15:36	18° Ⅲ 07'05			5363 May 11 15:30	0°Щ	
	5362 Jun 03 15:50	0ಂತಿ		evening rise	5363 May 12 17:32	2°∏09'55	
evening max el	5362 Jun 15 21:04	17° © 51'03	20°22'13	asc. node	5363 May 12 17:32 5363 May 12 13:38	1° ∏ 50'31	
retrograde	5362 Jun 26 18:50	23°5011'34	20 22 13	evening max el	5363 May 29 13:00	29° П 29'38	19°18'15
evening set	5362 Jun 28 17:59	23°501'54		evening max er	5363 May 30 01:46	0°95	17 10 15
desc. node	5362 Jun 30 22:08	23° © 30'12		retrograde	5363 Jun 07 17:22	3° 9 58'58	
	5362 Jul 07 22:16	19°504'12	2004152	•	5363 Jun 09 16:26	3°947'34	
inferior conj	5362 Jul 07 22.16 5362 Jul 07 16:27			evening set desc. node	5363 Jun 17 19:09	3 €47 34 29° I I 54'56	
minimum elong				desc. node			
min. Earth dist.	5362 Jul 09 08:22	18°5014'23	0.54968 AU		5363 Jun 17 16:04	30°RⅡ 200Ⅲ20112	0007107
morning rise	5362 Jul 16 13:49	14°553'26		inferior conj	5363 Jun 18 04:43	29° ∏ 39'12	
direct	5362 Jul 20 13:35	14°518'59	22027110	minimum elong	5363 Jun 18 04:24	29° ∏ 39'42	0°07'00
morning max el	5362 Aug 03 00:32	20°951'31	23°36'19	transit middle	5363 Jun 18 04:24	29° ∏ 39'42	0°07'00
	5362 Aug 10 20:25	$0^{\circ}\Omega$		transit begin	5363 Jun 18 00:57	29° ∏ 45'25	
asc. node	5362 Aug 21 15:54	18° Ω 05'40		transit end	5363 Jun 18 07:52	29° ∏ 33'59	
morning set	5362 Aug 26 20:12	28° Ω 38'02		min. Earth dist.	5363 Jun 20 22:32	27° ∏ 51'07	0.56021 AU
	5362 Aug 27 11:40	0°Щ		morning rise	5363 Jun 26 13:26	24° ∏ 54'59	
				direct	5363 Jul 01 10:37	24° Ⅱ 00′23	
superior conj	5362 Sep 02 19:57	13° M 41'49	1°37'07		5363 Jul 14 06:53	0	
minimum elong	5362 Sep 02 18:24	13°M 33'26	1°37'00	morning max el	5363 Jul 15 13:58	1° © 11'29	25°18'01

	5363 Aug 04 14:52	0°N		asc. node	5364 Jul 25 09:58	27° © 32'55	
asc. node	5363 Aug 04 14:52 5363 Aug 08 12:57	7° Ω 41'40		morning set	5364 Jul 25 18:02	27 3 32 33 28° 5 15'21	
morning set	5363 Aug 11 07:51	13°Ω29'45		morning sec	5364 Jul 26 13:46	0°Ω	
<i>5 5 1 1 1 1 1 1 1 1 1 1</i>							
superior conj	5363 Aug 18 06:01	28° Ω 33'54	1°25'52	superior conj	5364 Aug 01 17:42	13° Ω 28′00	1°09'46
minimum elong	5363 Aug 18 03:52	28° Ω 22'04	1°25'37	minimum elong	5364 Aug 01 15:25	13° Ω 15′19	1°09'24
	5363 Aug 18 21:44	0° m		max. Earth dist.	5364 Aug 01 22:27	13° Ω 54'16	1.31985 AU
max. Earth dist.	5363 Aug 19 12:02		1.32454 AU	evening rise	5364 Aug 08 14:34	28° Ω 24'09	
evening rise	5363 Aug 25 08:40	13° m 47'48			5364 Aug 09 08:51	0° m)	
	5363 Sep 02 17:30	0∘ ⊽			5364 Aug 26 01:23	0∘ ⊽	
desc. node	5363 Sep 13 18:26	17° ≏ 56'21		desc. node	5364 Aug 30 15:28	6° Ω 26'34	
	5363 Sep 23 04:10	0°M	25020120	evening max el	5364 Sep 07 22:37	15° £ 53'06	26°50'43
evening max el	5363 Sep 26 18:32	3°M41'43	27°23'39	retrograde	5364 Sep 21 20:12	23° Ω 02'46	
retrograde	5363 Oct 10 13:20	10°M56'02		evening set	5364 Sep 28 18:29	20° ♀ 59'07	0.60410.411
evening set min. Earth dist.	5363 Oct 17 17:22 5363 Oct 21 08:37	8°M29'12	0.62420 AU	min. Earth dist.	5364 Oct 02 12:41 5364 Oct 05 17:37	18° £ 21'40 15° £ 43'19	0.60410 AU
inferior conj	5363 Oct 24 05:59	2°M50'43		minimum elong	5364 Oct 05 17:57 5364 Oct 05 23:54	15° ⊆ 4519	4°25'54
minimum elong	5363 Oct 24 05:59 5363 Oct 24 11:55		3°28'35	morning rise	5364 Oct 13 07:20	10° ⊆ 58'35	4 23 34
minimum clong	5363 Oct 27 11:33 5363 Oct 27 11:22	2 11030 40 30°R Ω	3 20 33	direct	5364 Oct 15 07:20	10° ⊆ 38'01	
morning rise	5363 Oct 31 08:12	27° ₽ 44'36		asc. node	5364 Oct 21 09:16	12° ⊆ 51'52	
direct	5363 Nov 02 16:31	27° Ω 19'54		morning max el	5364 Oct 23 00:21	14° £ 17'06	18°05'59
asc. node	5363 Nov 04 12:12	27° ♀ 35'12		Ü	5364 Nov 02 17:58	0° M	
	5363 Nov 08 14:55	0°M		morning set	5364 Nov 07 18:28	9° ™ 14'59	
morning max el	5363 Nov 09 11:26	0° ™ 47'49	17°50'17	-			
morning set	5363 Nov 25 10:33	25° M $_{3}8'38$		superior conj	5364 Nov 17 12:15	27°M10'57	1°02'04
	5363 Nov 27 21:13	0° ∡ 7		minimum elong	5364 Nov 17 16:10	27° M $28'24$	1°01'35
					5364 Nov 19 02:20	0° ∡ ¹	
superior conj	5363 Dec 06 16:06	15° ∡ 16'53	0°28'37	max. Earth dist.	5364 Nov 25 04:05	10° ∡ ¹26'55	1.41688 AU
minimum elong	5363 Dec 06 18:43	15° ∡ ¹27'56	0°28'15	desc. node	5364 Nov 26 14:45	12° ∡ ′51′28	
desc. node	5363 Dec 10 17:44	22° ₹ 05'03		evening rise	5364 Nov 30 11:22	19° ₹ 09'42	
max. Earth dist.	5363 Dec 13 16:50	26° ₹ 55'43	1.43457 AU		5364 Dec 07 09:06	0°₹	
	5363 Dec 15 14:34	0°₹		·	5364 Dec 28 18:27	0° ≈	22046124
evening rise	5363 Dec 21 09:36	9° る 08'22		evening max el	5365 Jan 02 23:16	5°≈50'16	22°46'24
avanina may al	5364 Jan 04 06:21 5364 Jan 21 06:17	0°≈ 22°≈13'22	21020141	retrograde asc. node	5365 Jan 12 23:19 5365 Jan 17 08:30	11°≈46'36 10°≈07'29	
evening max el retrograde	5364 Jan 30 03:38	22 ≈13 22 27°≈29'38	21 2841	evening set	5365 Jan 17 17:20	10 ≈0729 9°≈49'48	
asc. node	5364 Jan 31 11:26	27°≈20'15		inferior conj	5365 Jan 23 02:13	3°≈26'26	1°49'47
evening set	5364 Feb 03 10:04	25°≈48'36		minimum elong	5365 Jan 23 00:04	3°≈33'51	1°49'02
inferior conj	5364 Feb 08 18:05	19° ≈ 32'32	2°29'13	min. Earth dist.	5365 Jan 22 19:51		0.68137 AU
minimum elong	5364 Feb 08 15:41	19° ≈ 40'52			5365 Jan 25 16:21	30°Ŗ₹	
min. Earth dist.	5364 Feb 08 23:20	19° ≈ 14'20	0.67991 AU	morning rise	5365 Jan 28 06:42	27° る 17'57	
morning rise	5364 Feb 13 21:08	13° ≈ 20′19		direct	5365 Feb 01 18:48	25° る 27'27	
direct	5364 Feb 18 23:48	11° ≈ 07'05			5365 Feb 10 01:07	0° ≈	
morning max el	5364 Feb 29 04:41	17° ≈ 10′16	23°09'11	morning max el	5365 Feb 10 17:52	0° ≈ 41'01	21°42'37
desc. node	5364 Mar 07 17:01	25° ≈ 54'20		desc. node	5365 Feb 22 14:02	15° ≈ 22'55	
	5364 Mar 10 19:40	0° ∀			5365 Mar 04 15:35	0° ∀	
. ,	5364 Mar 30 22:29	0° Υ		morning set	5365 Mar 14 23:15	15°) ₹58'36	1 41602 444
morning set	5364 Apr 03 23:27	6°Υ38'39	1 20540 ATT	max. Earth dist.	5365 Mar 21 05:17	26°¥08'38 0° Y	1.41682 AU
max. Earth dist.	5364 Apr 08 05:33	13 3237	1.39548 AU		5365 Mar 23 12:36	0 1	
superior conj	5364 Apr 15 21:43	27° Ƴ 36'43	-1°44'06	superior conj	5365 Mar 28 20:05	9° Ƴ 07'16	-2°02'56
minimum elong	5364 Apr 16 02:48	28° Υ '00'11		minimum elong	5365 Mar 28 23:54	9° Υ 23'55	
g	5364 Apr 17 04:37	0°8	1 100.	evening rise	5365 Apr 08 16:20	28° Y '40'46	2 02 10
evening rise	5364 Apr 25 11:00	15° 8 44'08		S	5365 Apr 09 09:34	0° ႘	
asc. node	5364 Apr 28 10:41	21° 8 25'55		asc. node	5365 Apr 15 07:44	10° 8 41'07	
	5364 May 03 03:57	Π $^{\circ}0$		evening max el	5365 Apr 25 00:17	24° 8 35'42	18°11'11
evening max el	5364 May 11 15:14	11° Ⅱ 47'22	18°34'38	retrograde	5365 May 01 21:55	28° 8 04'33	
retrograde	5364 May 19 10:19	15° Ⅱ 38'18		evening set	5365 May 04 09:55	27° 8 37'47	
evening set	5364 May 21 15:27	15° Ⅱ 20'42		inferior conj	5365 May 11 07:55	22° 8 49'46	2°37'23
inferior conj	5364 May 29 07:40	10° Ⅱ 53'18	1°30'31	minimum elong	5365 May 11 11:15	22° 8 42'13	2°36'34
minimum elong	5364 May 29 10:38	10° Ⅱ 47'33	1°29'32	min. Earth dist.	5365 May 14 16:31	19° 8 49'24	0.59932 AU
min. Earth dist.	5364 Jun 01 16:25	8° Ⅱ 18'32	0.57790 AU	morning rise	5365 May 18 10:01	17° 8 03'29	
desc. node	5364 Jun 03 16:13	6°∏56'06		desc. node	5365 May 21 13:15	15° 8 36'16	
morning rise direct	5364 Jun 06 02:34 5364 Jun 11 21:37	5° Ⅱ 34'00 4° Ⅱ 09'22		direct morning max el	5365 May 24 21:29 5365 Jun 08 05:57	15° 8 04'39 22° 8 57'41	27°36'30
morning max el	5364 Jun 26 06:43	4 П 09 22 11° П 46'14	26°42'35	morning max ci	5365 Jun 14 12:13	0°Ⅱ	21 30 30
morning max ci	5364 Jul 10 11:15	0°95	20 T2 JJ		5365 Jul 03 13:55	0°©	
		· •			5500 041 05 15.55	· •	

	5265 1 1 10 01 02	120540120			52661 00 07 02	001	
morning set	5365 Jul 10 01:03	12°5649'38			5366 Jun 09 07:03	0°II	
asc. node	5365 Jul 12 07:01	17° © 34'15		morning set	5366 Jun 24 02:51	27° Ⅱ 05′26	
max. Earth dist.	5365 Jul 16 09:40	26° © 30'37	1.31936 AU		5366 Jun 25 12:51	0ංම	
				asc. node	5366 Jun 29 04:02	7° © 40'25	
superior conj	5365 Jul 17 05:16	28° © 18'36	0°49'24	max. Earth dist.	5366 Jun 29 17:40	8° © 53'51	1.32314 AU
minimum elong	5365 Jul 17 03:19	28° © 07'50	0°49'01				
	5365 Jul 17 23:38	0 $^{\circ}$ Ω		superior conj	5366 Jul 01 14:53	12° © 59'16	0°25'18
evening rise	5365 Jul 24 00:20	13° Ω 09'30		minimum elong	5366 Jul 01 13:45	12° © 53'00	0°25'02
	5365 Aug 01 11:21	0° m)		evening rise	5366 Jul 08 11:55	27° © 56'35	
desc. node	5365 Aug 17 12:29	23° m 50'49			5366 Jul 09 11:12	$0^{\circ}\Omega$	
evening max el	5365 Aug 20 19:00	27° m 14'35	25°45'35		5366 Jul 26 13:09	0° m)	
	5365 Aug 23 23:44	0∘ ⊽		evening max el	5366 Aug 02 08:47	7° m ,52'50	24°16'48
retrograde	5365 Sep 03 17:53	4° ₽ 20'35		desc. node	5366 Aug 04 09:30	9° m 42'38	
evening set	5365 Sep 09 21:51	2° ♀ 50'50		retrograde	5366 Aug 16 04:25	14° m 50'18	
min. Earth dist.	5365 Sep 14 07:10	0° ჲ 14'24	0.58345 AU	evening set	5366 Aug 21 00:43	13° m 58'07	
	5365 Sep 14 15:28	30°R, Mp		min. Earth dist.	5366 Aug 26 19:38	11° m)03'48	0.56501 AU
inferior conj	5365 Sep 17 11:22	27° m 58'14	-5°08'02	inferior conj	5366 Aug 29 08:57	9° m 27'48	-5°17'30
minimum elong	5365 Sep 17 15:20	27° m 51'06	5°07'36	minimum elong	5366 Aug 29 07:15	9° m/30'28	5°17'26
morning rise	5365 Sep 25 11:07	23° m 36'49		morning rise	5366 Sep 06 16:16	5° m/27'02	
direct	5365 Sep 27 21:31	23° m) 17'57		direct	5366 Sep 09 08:50	5° m) 07'49	
morning max el	5365 Oct 06 06:22	27° m) 18'04	18°42'12	morning max el	5366 Sep 19 02:15	9° m/40'37	19°40'11
asc. node	5365 Oct 08 06:18	29° m) 25'07	10 .2.12	asc. node	5366 Sep 25 03:18	16° Mp 59'32	1, 1011
asc. node	5365 Oct 08 08:18	ე∘ <u>ი</u>		asc. nouc	5366 Oct 02 16:50	0° ʊ	
morning set	5365 Oct 22 13:36	0 — 23° ≏ 22'41		morning set	5366 Oct 06 16:23	0 — 7° ⊆ 51'45	
morning set	5365 Oct 25 23:03	0°M		morning set	3300 Oct 00 10.23	/ == 31 43	
	3303 Oct 23 23.03	O IIG		aumorior comi	5266 Oat 14 12:56	229 0 46115	1020110
	52(5 O-+ 21 O5.10	100 m 05155	1925102	superior conj	5366 Oct 14 13:56		1°38'19
superior conj	5365 Oct 31 05:19		1°25'02	minimum elong	5366 Oct 14 15:44	23° £ 55'09	1°38'13
minimum elong	5365 Oct 31 08:34	10°M21'13	1°24'44	and the	5366 Oct 17 18:39	0°M	1 25520 177
max. Earth dist.	5365 Nov 07 10:17	23°M13'50	1.39623 AU	max. Earth dist.	5366 Oct 20 15:01	5°M23'01	1.37520 AU
evening rise	5365 Nov 11 11:03	0° ∡ 10'51		evening rise	5366 Oct 24 09:12	12°M13'29	
	5365 Nov 11 08:29	0° ∡		desc. node	5366 Oct 31 08:46	24°ML10'18	
desc. node	5365 Nov 13 11:45	3° ∡ ′34'31			5366 Nov 03 23:42	0° ∡	
	5365 Nov 30 18:47	0° る			5366 Nov 25 23:06	0° る	
evening max el	5365 Dec 16 12:59	19° පි 30'18	24°06'18	evening max el	5366 Nov 29 01:38	3° ⋜ 14'13	25°21'41
retrograde	5365 Dec 27 15:41	26° る 02'15		retrograde	5366 Dec 11 03:44	10° පි 12'15	
evening set	5366 Jan 01 22:29	23° る 50'10		evening set	5366 Dec 16 23:56	7° る 46'39	
asc. node	5366 Jan 04 05:33	21° る 29'52		min. Earth dist.	5366 Dec 21 10:13	2° ප් 53'01	0.67328 AU
min. Earth dist.	5366 Jan 06 16:14	18° る 22'17	0.67911 AU	asc. node	5366 Dec 22 02:34	2° る 00'15	
inferior conj	5366 Jan 07 09:36	17° る 23'33	1°03'07	inferior conj	5366 Dec 22 14:31	1° る 21'31	0°10'08
minimum elong	5366 Jan 07 08:11	17° る 28'23	1°02'34	minimum elong	5366 Dec 22 14:15	1° る 22'21	0°10'04
morning rise	5366 Jan 12 17:56	11° る 20'21		transit middle	5366 Dec 22 14:15	1° る 22'21	0°10'04
direct	5366 Jan 16 16:20	9° る 52'25		transit begin	5366 Dec 22 12:04	1° る 29'26	
morning max el	5366 Jan 24 14:00	14° ₹ 23'03	20°25'31	transit end	5366 Dec 22 16:26	1° る 15'17	
	5366 Feb 05 19:30	0° ≈			5366 Dec 23 15:59	30°₹ ⋌ ¹	
desc. node	5366 Feb 09 11:03	5° ≈ 18'32		morning rise	5366 Dec 28 04:53	25° ₹ 25'40	
morning set	5366 Feb 21 23:53	24° ≈ 17'32		direct	5366 Dec 31 15:09	24° ∡ 17'57	
_	5366 Feb 25 15:44	0° ∀		morning max el	5367 Jan 07 18:04	28° ҂ 16′25	19°22'08
max. Earth dist.	5366 Mar 03 11:55	9° 升 16′52	1.43489 AU		5367 Jan 09 09:01	0°ರ	
				greatest brilliancy	5367 Jan 20 23:46	15° る 54'58	-0.7m
superior conj	5366 Mar 09 18:14	19° ¥ 30'51	-2°09'06	desc. node	5367 Jan 27 08:04	25° ⋜ 34′08	
minimum elong	5366 Mar 09 17:31	19°) €27'51			5367 Jan 30 05:07	0° ≈	
	5366 Mar 15 23:25	0° Υ		morning set	5367 Jan 31 22:29	2° ≈ 39'51	
evening rise	5366 Mar 22 05:06	10° Ƴ 49'16		max. Earth dist.	5367 Feb 14 01:22	23° ≈ 08'39	1.44754 AU
asc. node	5366 Apr 02 04:47	29° Y ′28'36					
use. Houe	5366 Apr 02 12:57	0°8		superior conj	5367 Feb 17 15:22	28° ≈ 49'46	-1°57'12
evening max el	5366 Apr 08 12:39	7° 8 44'45	18°07'15	minimum elong	5367 Feb 17 08:19	28°≈21'39	
retrograde	5366 Apr 14 23:58	11° 8 06'44	10 07 13	minimum clong	5367 Feb 18 08:58	0° \	1 30 43
evening set	5366 Apr 17 18:29	10° 8 28'48		evening rise	5367 Mar 03 21:01	22° ∺ 02'26	
•	-		3°15'40	evening rise		0° Υ	
inferior conj	5366 Apr 24 02:08			asa nada	5367 Mar 08 15:40	0° γ 17° Υ 39'55	
minimum elong	5366 Apr 24 04:16	5° 8 15'36	3°15'22	asc. node	5367 Mar 20 01:49		10022105
min. Earth dist.	5366 Apr 27 00:51	2° 8 19'43	0.62122 AU	evening max el	5367 Mar 23 01:23	21° Υ 07'13	18°22'05
	5366 Apr 29 14:39	30°₹ Υ		retrograde	5367 Mar 29 12:05	24° Y 35'55	
morning rise	5366 Apr 30 12:24	29° Y 18′27		evening set	5367 Apr 01 12:57	23° Y 45'35	2021110
direct	5366 May 07 07:59	26° Y 50'17		inferior conj	5367 Apr 07 10:13	18° Y 19′20	3°31'10
desc. node	5366 May 08 10:17	26° Y ′53'52		minimum elong	5367 Apr 07 10:44	18° Y 17'53	3°31'09
	5366 May 15 18:53	0° 8		min. Earth dist.	5367 Apr 09 18:21	15° Ƴ 38'21	0.64112 AU
morning max el	5366 May 21 11:06	4° 8 50'56	27°53'08	morning rise	5367 Apr 13 07:38	12° Y ′08′31	

direct	5367 Apr 20 02:59	9° Ƴ 22'46		min. Earth dist.	5368 Mar 22 20:51	29° ₩ 31'06	0.65742 AU
desc. node	5367 Apr 25 07:18	10° Υ '43'53		morning rise	5368 Mar 26 16:28	25°) 23'24	0.007.12110
morning max el	5367 May 03 19:55	17° Y ′20'48	27°32'53	direct	5368 Apr 02 04:45	22°) 33'52	
5 5	5367 May 14 08:51	0°8		desc. node	5368 Apr 11 04:20	26°) 34'45	
	5367 Jun 02 03:07	0°Щ			5368 Apr 14 23:08	$0^{\circ}\Upsilon$	
morning set	5367 Jun 07 20:56	10° Ⅱ 55'05		morning max el	5368 Apr 15 05:54	0° Υ 16'59	26°41'26
max. Earth dist.	5367 Jun 12 18:31	20° I I52'20	1.33142 AU	C	5368 May 07 08:11	0°B	
				morning set	5368 May 21 04:04	24° 8 09'18	
superior conj	5367 Jun 15 20:42	27° Ⅲ 24′05	-0°01'54		5368 May 24 04:40	Π °0	
minimum elong	5367 Jun 15 20:47	27° Ⅲ 24'37	0°01'54	max. Earth dist.	5368 May 25 09:12	2° Ⅲ 21′07	1.34438 AU
behind sun begin	5367 Jun 15 15:25	26° Ⅱ 55'55					
behind sun end	5367 Jun 16 02:10	27° Ⅱ 53'20		superior conj	5368 May 29 20:30	11° Ⅱ 26'45	-0°31'12
asc. node	5367 Jun 16 01:03	27° ∏ 47'22		minimum elong	5368 May 29 22:11	11° Ⅱ 35'31	0°30'52
	5367 Jun 17 01:49	0 \circ		asc. node	5368 Jun 01 22:05	17° Ⅱ 51'14	
evening rise	5367 Jun 22 23:26	12° © 39'30		evening rise	5368 Jun 06 09:01	27° Ⅱ 12'25	
	5367 Jul 01 18:51	0 ° Ω			5368 Jun 07 17:26	0 \circ \odot	
evening max el	5367 Jul 14 21:57	18° Ω 13'29	22°39'08	evening max el	5368 Jun 25 18:32	28° 5 49'37	21°07'49
desc. node	5367 Jul 22 06:31	23° Ω 29'08			5368 Jun 27 00:48	0 \circ Ω	
retrograde	5367 Jul 28 02:07	24° Ω 46'55		retrograde	5368 Jul 07 15:06	4°Ω40'11	
evening set	5367 Jul 31 09:55	24° Ω 22'41		desc. node	5368 Jul 08 03:33	4° Ω 39'33	
min. Earth dist.	5367 Aug 08 05:44		0.55220 AU	evening set	5368 Jul 09 21:14	4° Ω 28'18	
inferior conj	5367 Aug 09 12:04	20°Ω13'00		inferior conj	5368 Jul 19 05:26	0° Ω 30′26	
minimum elong	5367 Aug 09 04:23	20° Ω 23'59	4°38'08	minimum elong	5368 Jul 18 21:08	0°Ω42'05	
morning rise	5367 Aug 18 00:51	16° Ω 22'57		min. Earth dist.	5368 Jul 19 16:03		0.54780 AU
direct	5367 Aug 21 02:37	16°Ω01'11	20050127		5368 Jul 20 03:06	30°R©	
morning max el	5367 Sep 01 09:55 5367 Sep 08 15:17	21° Ω 17'18	20°59'37	morning rise	5368 Jul 27 21:27	26°933'37	
aca mada	-	0°Тф 5°Тф21'19		direct	5368 Jul 31 11:46	26°≌05'48 0° Ω	
asc. node	5367 Sep 12 00:19 5367 Sep 21 00:07	22° Mp 34'26		morning max el	5368 Aug 10 16:41 5368 Aug 13 06:29	0 8 <i>l</i> 2° Ω 10'27	22026120
morning set	5367 Sep 24 13:35	0° ⊽		asc. node	5368 Aug 28 21:21	24°Ω19'17	22 30 28
	3307 Sep 24 13.33	0 ==		asc. node	5368 Aug 31 19:57	0°m)	
superior conj	5367 Sep 28 09:36	7° ≙ 58'31	1°43'15	morning set	5368 Sep 04 10:46	7° m) 25'27	
minimum elong	5367 Sep 28 09:52	7° ≏ 59'54	1°43'15	morning set	3300 Бер 04 10.40	/ III/252/	
max. Earth dist.	5367 Oct 03 00:05	17° ≏ 15'52	1.35617 AU	superior conj	5368 Sep 11 12:56	22° m/33'11	1°41'08
evening rise	5367 Oct 07 02:20	25° Ω 08'17	1.55017 110	minimum elong	5368 Sep 11 11:56	22° m) 27'52	1°41'05
e vennig 1190	5367 Oct 09 17:40	0°M		max. Earth dist.	5368 Sep 14 17:28	29° m 15'18	1.34062 AU
desc. node	5367 Oct 18 05:47	14°M33'29			5368 Sep 15 02:06	0∘ <u>⊽</u>	
	5367 Oct 28 12:08	0° ∡ 7		evening rise	5368 Sep 19 10:19	8° £ 44'45	
evening max el	5367 Nov 11 14:27	16° ∡ 757'13	26°25'10	Č	5368 Oct 01 05:34	0° M	
retrograde	5367 Nov 24 10:31	24° ₹ 09'50		desc. node	5368 Oct 04 02:49	4°MJ38'14	
evening set	5367 Nov 30 19:48	21° х ⁴34′16			5368 Oct 23 14:35	0° ∡ ¹	
min. Earth dist.	5367 Dec 04 23:21	17° ∡ 15'50	0.66394 AU	evening max el	5368 Oct 24 03:16	0° ∡ ³30'39	27°09'12
inferior conj	5367 Dec 06 14:58	15° ∡ 15'48	-0°48'13	retrograde	5368 Nov 06 11:30	7° ∡ ¹48'20	
minimum elong	5367 Dec 06 16:17	15° ∡ 11'47	0°47'37	evening set	5368 Nov 13 07:58	5° ∡ ¹08'33	
asc. node	5367 Dec 08 23:35	12° ≯ ³31′10		min. Earth dist.	5368 Nov 17 05:19	1° ∡ ¹25'21	0.65114 AU
morning rise	5367 Dec 12 13:25	9° ∡ ¹29'55			5368 Nov 18 12:06	30°RM₊	
direct	5367 Dec 15 13:27	8° ₰ ³39'02		inferior conj	5368 Nov 19 08:48	29°M01'57	-1°50'30
morning max el	5367 Dec 22 04:55	12° ₰ 16'28	18°34'32	minimum elong	5368 Nov 19 12:00	28°M53'01	1°49'11
	5368 Jan 04 01:19	0°る		asc. node	5368 Nov 24 20:36	23°M56'41	
morning set	5368 Jan 11 18:29	12° る 11'34		morning rise	5368 Nov 25 17:08	23°M29'05	
desc. node	5368 Jan 14 05:04	16° る 03'39		direct	5368 Nov 28 09:06	22°M51'15	
	5368 Jan 23 01:19	0° ≈		morning max el	5368 Dec 04 20:17	26° M ₁7'53	18°03'34
					5368 Dec 08 00:59	0° ⊼	
superior conj	5368 Jan 27 19:58	7°≈29'37		morning set	5368 Dec 22 20:08	23° ∡ 12'22	
minimum elong	5368 Jan 27 10:39	6°≈53'06			5368 Dec 26 23:09	0°る	
max. Earth dist.	5368 Jan 27 19:34	7° ≈ 28'04	1.45327 AU	desc. node	5368 Dec 31 02:06	6° る 42'45	
avanina rica	5368 Feb 11 02:45	0° 		gunorier cor:	5369 Jan 06 03:06	16° る 23'29	00/11/1/
evening rise	5368 Feb 12 13:38		-0.8m	superior conj			
greatest brilliancy	5368 Feb 21 06:35 5368 Mar 01 14:23	16°) €08'46 0° °	-0.0111	minimum elong max. Earth dist.	5369 Jan 05 22:02 5369 Jan 09 15:26	16°る03'23 21°る56'41	0°40'32 1.45150 AU
evening max el	5368 Mar 05 11:53	0° γ 4° Υ 36'53	18°54'47	max. Datui üist.	5369 Jan 14 18:55	21° ⊘ 3641 0° ≈	1.45130 AU
asc. node	5368 Mar 05 22:50	5° Υ 04'06	10 J-17/	evening rise	5369 Jan 22 09:50	0 ≈ 11° ≈ 49'31	
retrograde	5368 Mar 12 06:25	8° Υ 24'29		evening 1150	5369 Feb 03 06:37	0° \	
evening set	5368 Mar 15 14:05	7° Υ 20'52		greatest brilliancy	5369 Feb 04 21:09	2° ∺ 24'09	-0.7m
inferior conj	5368 Mar 21 04:23	1° Υ 37'35	3°29'20	evening max el	5369 Feb 16 18:11	18° \(\frac{1}{4}\) 09'50	19°43'55
minimum elong	5368 Mar 21 03:29	1° Υ 40'24	3°29'16	asc. node	5369 Feb 20 19:53	21° H 28'07	
3,0118	5368 Mar 22 11:30	30° ₽ ₩		retrograde	5369 Feb 24 04:00	22° H 26'47	
		•- •		5			

	52(0 E-l- 27, 10-22	2101/00/11			5270 E-L 12 02-49	5° ₩ 05'48	
evening set	5369 Feb 27 19:23	21°) (09'11		evening set	5370 Feb 12 02:48		
inferior conj	5369 Mar 05 05:31	15°) 10′53	3°14'09		5370 Feb 16 16:05	30° R ≈	
minimum elong	5369 Mar 05 03:39	15° ∺ 17'03	3°13'50	inferior conj	5370 Feb 17 11:02	28° ≈ 55'10	2°48'16
min. Earth dist.	5369 Mar 06 07:09	13°) (45′42	0.66948 AU	minimum elong	5370 Feb 17 08:42	29° ≈ 03'13	2°47'41
morning rise	5369 Mar 10 11:42	8°) 55′59		min. Earth dist.	5370 Feb 17 23:20	28° ≈ 12'51	0.67724 AU
direct	5369 Mar 16 12:26	6° ¥ 14'32		morning rise	5370 Feb 22 14:24	22° ≈ 41'22	
morning max el	5369 Mar 28 15:19	13° ¥ 28'53	25°27'19	direct	5370 Feb 28 01:18	20°≈16'21	
desc. node	5369 Mar 29 01:22	13° X 54'32	23 27 17	morning max el	5370 Mar 11 00:07	26°≈48'39	24°00'41
desc. Hode		13 γ (34 32		morning max er			24 00 41
	5369 Apr 11 00:37				5370 Mar 13 23:13	0°) {	
	5369 Apr 30 02:49	0°8		desc. node	5370 Mar 15 22:24	2°) 18′03	
morning set	5369 May 03 19:54	6° 8 35'40			5370 Apr 04 15:21	0° Y	
max. Earth dist.	5369 May 07 12:55	13° 8 27'08	1.36188 AU	morning set	5370 Apr 15 14:57	17° Ƴ 59'58	
				max. Earth dist.	5370 Apr 19 09:10	24° Y 35'12	1.38274 AU
superior conj	5369 May 13 11:31	24° 8 59'11	-1°01'12		5370 Apr 22 09:01	0° ႘	
minimum elong	5369 May 13 14:56	25° 8 16'14			r		
minimum ciong	5369 May 15 23:23	0°II	1 00 50	superior conj	5370 Apr 26 14:20	7° 8 53'10	1020/30
	•	7° П 47'30			•	8° 8 15'59	
asc. node	5369 May 19 19:08			minimum elong	5370 Apr 26 19:08	_	1-29 00
evening rise	5369 May 21 14:29	11° Ⅱ 28′16		evening rise	5370 May 05 13:16	25° 8 20'19	
	5369 May 31 11:50	0		asc. node	5370 May 06 16:12	27° 8 32'12	
evening max el	5369 Jun 08 03:12	10° © 02'35	19°52'31		5370 May 07 22:38	Π $^{\circ}0$	
retrograde	5369 Jun 18 06:57	15° © 00'54		evening max el	5370 May 21 23:51	21° Ⅱ 58′28	18°57'10
evening set	5369 Jun 20 04:47	14° © 51'07		retrograde	5370 May 30 13:02	26° Ⅱ 09'54	
desc. node	5369 Jun 25 00:36	13°9510'31		evening set	5370 Jun 01 14:06	25° I I56'29	
			1012154	-			0027140
inferior conj	5369 Jun 29 03:13	10°5549'58		inferior conj	5370 Jun 09 17:54	21° Ⅱ 40'34	
minimum elong	5369 Jun 28 23:48	10° © 55'12		minimum elong	5370 Jun 09 19:23	21° Ⅱ 37'58	0°37'14
min. Earth dist.	5369 Jul 01 04:23	9° © 34'59	0.55304 AU	desc. node	5370 Jun 11 21:38	20° Ⅱ 09'08	
morning rise	5369 Jul 07 16:52	6° ॐ 26′18		min. Earth dist.	5370 Jun 12 20:09	19° ∏ 30′24	0.56700 AU
direct	5369 Jul 12 01:04	5° © 44'56		morning rise	5370 Jun 17 21:20	16° Ⅱ 40′27	
morning max el	5369 Jul 25 20:45	12° © 34'56	24°20'47	direct	5370 Jun 23 03:55	15° Ⅲ 34'07	
Ü	5369 Aug 08 05:24	$0^{\circ}\Omega$		morning max el	5370 Jul 07 11:12	22° Ⅱ 58'24	25°57'04
asc. node	5369 Aug 15 18:24	13° Ω 43'17		morning max or	5370 Jul 13 18:03	0°95	23 37 01
						0°Ω	
morning set	5369 Aug 19 22:31	22° Ω 18′08			5370 Jul 31 23:00		
	5369 Aug 23 12:20	0° ™		asc. node	5370 Aug 02 15:28	3° Ω 26′17	
						70 O O 712 C	
				morning set	5370 Aug 04 09:44	7° Ω 07'35	
superior conj	5369 Aug 26 21:10	7° m 20'40	1°32'59	morning set	5370 Aug 04 09:44	/~870/35	
superior conj minimum elong	5369 Aug 26 21:10 5369 Aug 26 19:18	7° m 20'40 7° m 10'31	1°32'59 1°32'49	morning set superior conj	5370 Aug 04 09:44 5370 Aug 11 08:09	22°Ω14'08	1°19'36
minimum elong	5369 Aug 26 19:18	7° mp 10'31	1°32'49	superior conj	5370 Aug 11 08:09	22° Ω 14′08	
minimum elong max. Earth dist.	5369 Aug 26 19:18 5369 Aug 28 19:14	7° m 10'31 11° m 29'54		superior conj minimum elong	5370 Aug 11 08:09 5370 Aug 11 05:53	22° Ω 14'08 22° Ω 01'37	1°19'17
minimum elong	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11	7° Mp 10'31 11° Mp 29'54 22° Mp 51'08	1°32'49	superior conj	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11	22°\Pi14'08 22°\Pi01'37 23°\Pi58'55	
minimum elong max. Earth dist. evening rise	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52	7° m 10'31 11° m 29'54 22° m 51'08 0° <u>a</u>	1°32'49	superior conj minimum elong max. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19	22°\$\Omega\$14'08 22°\$\Omega\$01'37 23°\$\Omega\$58'55 0°\$\Omega\$	1°19'17
minimum elong max. Earth dist.	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51	7° m 10'31 11° m 29'54 22° m 51'08 0° <u>a</u> 24° <u>a</u> 15'41	1°32'49	superior conj minimum elong	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48	22° N 14'08 22° N 01'37 23° N 58'55 0° M 7° M 18'37	1°19'17
minimum elong max. Earth dist. evening rise	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52	7° ነ 10'31 11° ነ 29'54 22° ነ 51'08 0°	1°32'49 1.32914 AU	superior conj minimum elong max. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19	22°\$\Omega\$14'08 22°\$\Omega\$01'37 23°\$\Omega\$58'55 0°\$\Omega\$	1°19'17
minimum elong max. Earth dist. evening rise	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51	7° m 10'31 11° m 29'54 22° m 51'08 0° <u>a</u> 24° <u>a</u> 15'41	1°32'49 1.32914 AU	superior conj minimum elong max. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48	22° N 14'08 22° N 01'37 23° N 58'55 0° M 7° M 18'37	1°19'17
minimum elong max. Earth dist. evening rise desc. node	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27	7° ነ 10'31 11° ነ 29'54 22° ነ 51'08 0°	1°32'49 1.32914 AU	superior conj minimum elong max. Earth dist. evening rise	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16	22° € 14'08 22° € 001'37 23° € 55'55 0° M 7° M 18'37 0° •	1°19'17 1.32196 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25	7° m 10'31 11° m 29'54 22° m 51'08 0° <u>a</u> 24° <u>a</u> 15'41 0° m 13° m 41'38	1°32'49 1.32914 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52	22° \$\Omega 14'08 22° \$\Omega 01'37 23° \$\Omega 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\omega 13° \$\Omega 14'40	1°19'17 1.32196 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36	7° m 10'31 11° m 29'54 22° m 51'08 0° <u>a</u> 24° <u>a</u> 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28	1°32'49 1.32914 AU 27°27'10	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08	22° \$\alpha 14'08 22° \$\alpha 01'37 23° \$\alpha 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\oldots 13° \$\oldots 14'40 26° \$\oldots 17'43 0° \$\mathred{m}\$.	1°19'17 1.32196 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01	7° ነ 10'31 11° ነነ 29'54 22° ነነ 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11	22° \$\alpha 14'08 22° \$\alpha 01'37 23° \$\alpha 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\alpha\$ 13° \$\alpha 14'40 26° \$\alpha 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56	1°19'17 1.32196 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25	7° ነ 10'31 11° ነነ 29'54 22° ነነ 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01	22° \$\mathcal{Q}\$14'08 22° \$\mathcal{Q}\$01'37 23° \$\mathcal{Q}\$58'55 0° \$\mathcal{W}\$ 7° \$\mathcal{W}\$18'37 0° \$\mathcal{\Omega}\$ 13° \$\mathcal{\Omega}\$14'40 26° \$\mathcal{\Omega}\$17'43 0° \$\mathcal{W}\$ 3° \$\mathcal{W}\$30'56 1° \$\mathcal{W}\$12'12	1°19'17 1.32196 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10	22° \$\alpha 14'08 22° \$\alpha 01'37 23° \$\alpha 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\oldsymbol{\Omega}\$ 13° \$\oldsymbol{\Omega} 14'40 26° \$\oldsymbol{\Omega} 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56 1° \$\mathred{m}\$ 12'12 30° \$\mathred{R}\$\oldsymbol{\Omega}\$	1°19'17 1.32196 AU 27°13'44
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18	22° \$\alpha 14'08 22° \$\alpha 01'37 23° \$\alpha 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\oldsymbol{\Omega}\$ 13° \$\oldsymbol{\Omega} 14'40 26° \$\oldsymbol{\Omega} 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56 1° \$\mathred{m}\$ 12'12 30° \$\mathred{\Omega}\$ 28° \$\oldsymbol{\Omega} 26'12	1°19'17 1.32196 AU 27°13'44 0.61581 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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41	22° \$\alpha 14'08 22° \$\alpha 01'37 23° \$\alpha 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\alpha\$ 13° \$\alpha 14'40 26° \$\alpha 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56 1° \$\mathred{m}\$ 12'12 30° \$\alpha\$ 28° \$\alpha 26'12 25° \$\alpha 42'52	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18	22° \$\Omega 14'08 22° \$\Omega 01'37 23° \$\Omega 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\Omega\$ 13° \$\Omega 14'40 26° \$\Omega 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56 1° \$\mathred{m}\$ 12'12 30° \$\omega \omega 26'12 25° \$\Omega 242'52 25° \$\Omega 28'48	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41	22° \$\alpha 14'08 22° \$\alpha 01'37 23° \$\alpha 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\alpha\$ 13° \$\alpha 14'40 26° \$\alpha 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56 1° \$\mathred{m}\$ 12'12 30° \$\alpha\$ 28° \$\alpha 26'12 25° \$\alpha 42'52	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59	22° \$\Omega 14'08 22° \$\Omega 01'37 23° \$\Omega 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\Omega\$ 13° \$\Omega 14'40 26° \$\Omega 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 30'56 1° \$\mathred{m}\$ 12'12 30° \$\omega \omega 26'12 25° \$\Omega 242'52 25° \$\Omega 28'48	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 7	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 26 04:24	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mathref{m}\$ 7° \$\mathref{m}\$ 18'37 0° \$\Pi \text{13'} \Pi 14'40 26° \$\Pi 17'43 0° \$\mathref{m}\$ 3° \$\mathref{m}\$ 13'56 1° \$\mathref{m}\$ 12'12 30° \$\mathref{R}\$\Pi \text{25'} \Pi 24'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 26 04:24 5370 Oct 29 14:43	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mathref{m}\$ 7° \$\mathref{m}\$ 18'37 0° \$\Pi \text{13'} \Pi 14'40 26° \$\Pi 17'43 0° \$\mathref{m}\$ 3° \$\mathref{m}\$ 13'56 1° \$\mathref{m}\$ 12'12 30° \$\mathref{m}\$ 28° \$\Pi 26'12 25° \$\Pi 42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54	7° m 10'31 11° m 29'54 22° m 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 12 03:11 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Sep 23 09:08 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 29 14:43 5370 Oct 29 14:43 5370 Nov 02 04:38	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° m 7° m 18'37 0° \Pi 13° \Pi 14'40 26° \Pi 17'43 0° m 3° m 30'56 1° m 12'12 30° R \Pi 28° \Pi 26'12 25° \Pi 42'52 25° \Pi 28'48 20° \Pi 45'47 20° \Pi 23'19 21° \Pi 14'44 23° \Pi 55'03	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 7 5° 7 28'42	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54	22° \$\mathcal{Q}\$14'08 22° \$\mathcal{Q}\$01'37 23° \$\mathcal{Q}\$58'55 0° \$\mathcal{W}\$ 7° \$\mathcal{W}\$18'37 0° \$\mathcal{\Omega}\$ 13° \$\mathcal{\Omega}\$14'40 26° \$\mathcal{\Omega}\$17'43 0° \$\mathcal{W}\$ 3° \$\mathcal{W}\$30'56 1° \$\mathcal{W}\$12'12 30° \$\mathcal{\Omega}\$26'12 25° \$\mathcal{\Omega}\$26'12 25° \$\mathcal{\Omega}\$26'12 25° \$\mathcal{\Omega}\$28'48 20° \$\mathcal{\Omega}\$23'19 21° \$\mathcal{\Omega}\$14'44 23° \$\mathcal{\Omega}\$55'03 0° \$\mathcal{W}\$.	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03	7° m 10'31 11° m 29'54 22° m 51'08 0° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° \(\sigma^2\) 5° \(\sigma^2\) 28'42 26° \(\sigma^2\) 19'22 26° \(\sigma^2\) 21'31	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\pi \text{70 M} 18'37 0° \$\Pi \text{13'37} 13° \$\Pi 14'40 26° \$\Pi 17'43 0° \$\mathbf{M}. 30'56 1° \$\mathbf{M}. 12'12 30° \$\mathbf{R}. \Pi \text{25'} 28° \$\Pi 26'12 25° \$\Pi 42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mathbf{M}. 18° \$\mathbf{M}. 40'49	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54	7° m 10'31 11° m 29'54 22° m 51'08 0° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° \(\sigma'\) 5° \(\sigma'\) 28'42 26° \(\sigma'\) 19'22 26° \(\sigma'\) 21'31 25° \(\sigma'\) 43'33	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54	22° \$\mathcal{Q}\$14'08 22° \$\mathcal{Q}\$01'37 23° \$\mathcal{Q}\$58'55 0° \$\mathcal{W}\$ 7° \$\mathcal{W}\$18'37 0° \$\mathcal{\Omega}\$ 13° \$\mathcal{\Omega}\$14'40 26° \$\mathcal{\Omega}\$17'43 0° \$\mathcal{W}\$ 3° \$\mathcal{W}\$30'56 1° \$\mathcal{W}\$12'12 30° \$\mathcal{\Omega}\$26'12 25° \$\mathcal{\Omega}\$26'12 25° \$\mathcal{\Omega}\$26'12 25° \$\mathcal{\Omega}\$28'48 20° \$\mathcal{\Omega}\$23'19 21° \$\mathcal{\Omega}\$14'44 23° \$\mathcal{\Omega}\$55'03 0° \$\mathcal{W}\$.	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 22:30 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03	7° m 10'31 11° m 29'54 22° m 51'08 0° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° \(\sigma^2\) 5° \(\sigma^2\) 28'42 26° \(\sigma^2\) 19'22 26° \(\sigma^2\) 21'31	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\pi \text{70 M} 18'37 0° \$\Pi \text{13'37} 13° \$\Pi 14'40 26° \$\Pi 17'43 0° \$\mathbf{M}. 30'56 1° \$\mathbf{M}. 12'12 30° \$\mathbf{R}. \Pi \text{25'} 28° \$\Pi 26'12 25° \$\Pi 42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mathbf{M}. 18° \$\mathbf{M}. 40'49	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 16 21:51	7° m 10'31 11° m 29'54 22° m 51'08 0° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° \(\sigma'\) 5° \(\sigma'\) 28'42 26° \(\sigma'\) 19'22 26° \(\sigma'\) 21'31 25° \(\sigma'\) 43'33	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\pi \text{70 M} 18'37 0° \$\Pi \text{13'37} 13° \$\Pi 14'40 26° \$\Pi 17'43 0° \$\mathbf{M}. 30'56 1° \$\mathbf{M}. 12'12 30° \$\mathbf{R}. \Pi \text{25'} 28° \$\Pi 26'12 25° \$\Pi 42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mathbf{M}. 18° \$\mathbf{M}. 40'49	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 16 21:51 5369 Dec 17 16:16	7° m 10'31 11° m 29'54 22° m 51'08 0° \(\oldsymbol{\Omega}\) 24° \(\oldsymbol{\Omega}\) 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° \(\sigma^2\) 5° \(\sigma^2\) 28'42 26° \(\sigma^2\) 19'22 26° \(\sigma^2\) 21'31 25° \(\sigma^2\) 43'33 26° \(\sigma^7\) 59'24	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 26 04:24 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 24 05:31	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mu \tag{7} 0\tag{8}. 13° \$\Pi 14'40 26° \$\Pi 17'43 0° \$\mu \tag{8}. 3° \$\mu 30'56 1° \$\mu 12'12 30° \$\mu \tag{2}. 28° \$\Pi 26'12 25° \$\Pi 42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mu \tag{8}. 18° \$\mu 40'49 0° \$\nu \tag{7}.	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 19 12:26	7° ነ 10'31 11° ነው 29'54 22° ነው 51'08 0°	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'53	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 26 04:24 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 12:23 5370 Nov 28 12:23	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mu \tag{7} \text{\$\pi 18'37} 0° \$\Pi \tag{18'37} 0° \$\mu \tag{30'8} \tag{20'56} 1° \$\mu 12'12 30° \$\R \Pi \tag{28'} \Pi 26'12 25° \$\Pi 28'48 20° \$\Pi 42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mu \tag{18'} \$\mu 40'49 0° \$\star{7}' \$\star{32'12} 7° \$\star{32'12} 7° \$\star{34'7'16}	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34
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.	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 09 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 19 12:26 5369 Dec 23 09:21	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° x 5° x 28'42 26° x 19'22 26° x 21'31 25° x 43'33 26° x 59'24 27° x 27'34 0° 5 6° 514'30	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 20:56 5370 Oct 29 14:43 5370 Nov 17 23:15 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 12:23 5370 Nov 28 12:55 5370 Dec 04 20:08	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° m 7° m 18'37 0° \Pi 13° \Pi 14'40 26° \Pi 17'43 0° m 3° m 30'56 1° m 12'12 30° R \Pi 28° \Pi 26'12 25° \Pi 42'52 25° \Pi 28'48 20° \Pi 45'47 20° \Pi 23'19 21° \Pi 14'44 23° \Pi 55'03 0° m 18° m 40'49 0° \$\mathrightarrow{7} \mathrightarrow{7} 32'12 7° \$\mathrightarrow{7} 47'16 18° \$\mathrightarrow{7} 14'29	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34 0°44'04 0°43'36
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 19 12:26 5369 Dec 23 09:21 5370 Jan 01 20:08	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 7 28'42 26° 7 28'42 26° 7 28'42 26° 7 21'31 25° 7 43'33 26° 7 59'24 27° 7 27'34 0° 5 6° 514'30 21° 502'40	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'53	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 20:56 5370 Oct 29 14:43 5370 Nov 17 23:15 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 15:52 5370 Dec 04 20:08 5370 Dec 05 22:54	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mu \tag{7} \text{\$\mu 18'37} 0° \$\oldsymbol{\Omega} \text{\$\Omega} 13' \oldsymbol{\Omega} 14'40 26° \$\oldsymbol{\Omega} 17'43 0° \$\mu \tag{3} \text{\$\Omega} 14'40 26° \$\oldsymbol{\Omega} 17'43 0° \$\mu \tag{3} \text{\$\Omega} 26'12 25° \$\oldsymbol{\Omega} 28'48 20° \$\oldsymbol{\Omega} 24'52 25° \$\oldsymbol{\Omega} 28'48 20° \$\oldsymbol{\Omega} 23'19 21° \$\oldsymbol{\Omega} 14'44 23° \$\oldsymbol{\Omega} 55'03 0° \$\mu \tag{1} 18' \$\mu 40'49 0° \$\neq \tag{7} \tag{3} 2'12 7° \$\neq 47'16 18° \$\neq 14'29 20° \$\neq 04'47	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34
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.	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 17:25 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 23 09:21 5370 Jan 01 20:08 5370 Jan 07 17:05	7° m 10'31 11° m 29'54 22° m 51'08 0° Ω 24° Ω 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 🖈 5° 🛪 28'42 26° 🛪 19'22 26° 🛪 21'31 25° 🛪 43'33 26° 🛪 59'24 27° 🛪 27'34 0° ♂ 6° ♂ 14'30 21° ♂ 02'40 0° ≈	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'53	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 desc. node max. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 20:56 5370 Oct 25 20:56 5370 Oct 26 04:24 5370 Oct 27 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 12:23 5370 Dec 04 20:08 5370 Dec 05 22:54 5370 Dec 12 02:54	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mathbf{m}\$ 7° \$\mathbf{m}\$ 18'37 0° \$\Pi \text{13'} 30'56 1° \$\mathbf{m}\$ 13'12 30° \$\Pi \text{24'} 12 25° \$\Pi 28'42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mathbf{m}\$ 18° \$\mathbf{m}\$ 40'49 0° \$\stacksquare \text{7'} \$\stacksquare \text{32'} 12 7° \$\stacksquare \text{32'} 12 7° \$\stacksquare \text{32'} 12 20° \$\stacksquare \text{32'} 14'29 20° \$\stacksquare \text{30'} 04'47 0° \$\text{5}\$	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34 0°44'04 0°43'36
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 19 12:26 5369 Dec 23 09:21 5370 Jan 01 20:08 5370 Jan 07 17:05 5370 Jan 29 04:25	7° m 10'31 11° m 29'54 22° m 51'08 0° Ω 24° Ω 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 🖈 5° 🗷 28'42 26° 🗷 19'22 26° 🗷 21'31 25° 🗷 43'33 26° 🗷 59'24 27° 🗷 27'34 0° ♂ 6° ♂ 14'30 21° ♂ 02'40 0° ≈ 0° ℃	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'50	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	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 04:24 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 15:52 5370 Dec 04 20:08 5370 Dec 05 22:54 5370 Dec 12 02:54 5370 Dec 12 02:54 5370 Dec 12 12:18	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\oldsymbol{\Omega}\$ 13° \$\oldsymbol{\Omega}\$ 14'40 26° \$\oldsymbol{\Omega}\$ 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 130'56 1° \$\mathred{m}\$ 12'12 30° \$\mathred{\Omega}\$ 28° \$\oldsymbol{\Omega}\$ 26'12 25° \$\oldsymbol{\Omega}\$ 28'48 20° \$\oldsymbol{\Omega}\$ 45'47 20° \$\oldsymbol{\Omega}\$ 23'19 21° \$\oldsymbol{\Omega}\$ 14'44 23° \$\oldsymbol{\Omega}\$ 55'03 0° \$\mathred{m}\$ 18° \$\mathred{m}\$ 40'49 0° \$\star*\$ 7° \$\textsymbol{\Sigma}\$ 32'12 7° \$\textsymbol{\Sigma}\$ 47'16 18° \$\textsymbol{\Sigma}\$ 14'29 20° \$\textsymbol{\Sigma}\$ 04'47 0° \$\textsymbol{\Sigma}\$ 0" \$\textsymbol{\Sigma}\$ 37'02	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34 0°44'04 0°43'36
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.	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 17:25 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 23 09:21 5370 Jan 01 20:08 5370 Jan 07 17:05	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 22'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 7 5° 7 28'42 26° 7 19'22 26° 7 21'31 25° 7 43'33 26° 7 59'24 27° 7 27'34 0° 6° 14'30 21° 502'40 0° ≈ 0° H 1° H 44'05	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'50	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 desc. node max. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 20:56 5370 Oct 25 20:56 5370 Oct 26 04:24 5370 Oct 27 14:43 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 12:23 5370 Dec 04 20:08 5370 Dec 05 22:54 5370 Dec 12 02:54	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mathbf{m}\$ 7° \$\mathbf{m}\$ 18'37 0° \$\Pi \text{13'} 30'56 1° \$\mathbf{m}\$ 13'12 30° \$\Pi \text{24'} 12 25° \$\Pi 28'42'52 25° \$\Pi 28'48 20° \$\Pi 45'47 20° \$\Pi 23'19 21° \$\Pi 14'44 23° \$\Pi 55'03 0° \$\mathbf{m}\$ 18° \$\mathbf{m}\$ 40'49 0° \$\stacksquare \text{7'} \$\stacksquare \text{32'} 12 7° \$\stacksquare \text{32'} 12 7° \$\stacksquare \text{32'} 12 20° \$\stacksquare \text{32'} 14'29 20° \$\stacksquare \text{30'} 04'47 0° \$\text{5}\$	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34 0°44'04 0°43'36
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	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 19 12:26 5369 Dec 23 09:21 5370 Jan 01 20:08 5370 Jan 07 17:05 5370 Jan 29 04:25	7° m 10'31 11° m 29'54 22° m 51'08 0° Ω 24° Ω 15'41 0° m 13° m 41'38 20° m 58'36 18° m 23'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 🖈 5° 🗷 28'42 26° 🗷 19'22 26° 🗷 21'31 25° 🗷 43'33 26° 🗷 59'24 27° 🗷 27'34 0° ♂ 6° ♂ 14'30 21° ♂ 02'40 0° ≈ 0° ℃	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'50	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 desc. node max. Earth dist.	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 04:24 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 15:52 5370 Dec 04 20:08 5370 Dec 05 22:54 5370 Dec 12 02:54 5370 Dec 12 02:54 5370 Dec 12 12:18	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° \$\mathred{m}\$ 7° \$\mathred{m}\$ 18'37 0° \$\oldsymbol{\Omega}\$ 13° \$\oldsymbol{\Omega}\$ 14'40 26° \$\oldsymbol{\Omega}\$ 17'43 0° \$\mathred{m}\$ 3° \$\mathred{m}\$ 130'56 1° \$\mathred{m}\$ 12'12 30° \$\mathred{\Omega}\$ 28° \$\oldsymbol{\Omega}\$ 26'12 25° \$\oldsymbol{\Omega}\$ 28'48 20° \$\oldsymbol{\Omega}\$ 45'47 20° \$\oldsymbol{\Omega}\$ 23'19 21° \$\oldsymbol{\Omega}\$ 14'44 23° \$\oldsymbol{\Omega}\$ 55'03 0° \$\mathred{m}\$ 18° \$\mathred{m}\$ 40'49 0° \$\star*\$ 7° \$\textsymbol{\Sigma}\$ 32'12 7° \$\textsymbol{\Sigma}\$ 47'16 18° \$\textsymbol{\Sigma}\$ 14'29 20° \$\textsymbol{\Sigma}\$ 04'47 0° \$\textsymbol{\Sigma}\$ 0" \$\textsymbol{\Sigma}\$ 37'02	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34 0°44'04 0°43'36
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 evening max el	5369 Aug 26 19:18 5369 Aug 28 19:14 5369 Sep 03 05:11 5369 Sep 06 19:52 5369 Sep 20 23:51 5369 Sep 24 23:27 5369 Oct 06 14:25 5369 Oct 20 06:16 5369 Oct 27 09:36 5369 Oct 31 02:01 5369 Nov 02 17:25 5369 Nov 02 12:57 5369 Nov 11 23:13 5369 Nov 11 17:39 5369 Nov 11 17:39 5369 Nov 18 13:15 5369 Dec 01 20:02 5369 Dec 04 23:54 5369 Dec 17 06:32 5369 Dec 17 07:03 5369 Dec 17 07:03 5369 Dec 17 16:16 5369 Dec 17 23:08 5369 Dec 19 12:26 5369 Dec 23 09:21 5370 Jan 01 20:08 5370 Jan 07 17:05 5370 Jan 29 04:25 5370 Jan 30 19:07	7° m 10'31 11° m 29'54 22° m 51'08 0° n 24° n 15'41 0° m 13° m 41'38 20° m 58'36 18° m 22'28 15° m 12'43 12° m 33'30 12° m 20'43 7° m 16'58 6° m 48'31 6° m 48'47 10° m 13'26 0° 7 5° 7 28'42 26° 7 19'22 26° 7 21'31 25° 7 43'33 26° 7 59'24 27° 7 27'34 0° 6° 14'30 21° 502'40 0° ≈ 0° H 1° H 44'05	1°32'49 1.32914 AU 27°27'10 0.63491 AU -2°54'26 2°52'36 17°49'57 0°04'53 0°04'50	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 desc. node max. Earth dist. evening rise	5370 Aug 11 08:09 5370 Aug 11 05:53 5370 Aug 12 03:11 5370 Aug 14 21:19 5370 Aug 18 07:48 5370 Aug 30 07:16 5370 Sep 07 20:52 5370 Sep 18 21:43 5370 Oct 02 18:11 5370 Oct 09 21:01 5370 Oct 11 14:10 5370 Oct 13 12:18 5370 Oct 16 13:41 5370 Oct 16 19:59 5370 Oct 23 20:56 5370 Oct 24 04:24 5370 Oct 29 14:43 5370 Nov 02 04:38 5370 Nov 02 04:38 5370 Nov 07 01:54 5370 Nov 17 23:15 5370 Nov 28 12:23 5370 Nov 28 12:23 5370 Dec 04 20:08 5370 Dec 05 22:54 5370 Dec 12 02:54 5370 Dec 12 12:18 5371 Jan 01 06:59	22° \$\Pi 14'08 22° \$\Pi 01'37 23° \$\Pi 58'55 0° m 7° m 18'37 0° \Pi 13° \Pi 14'40 26° \Pi 17'43 0° m 3° m 30'56 1° m 12'12 30° R \Pi 28° \Pi 26'12 25° \Pi 42'52 25° \Pi 28'48 20° \Pi 45'47 20° \Pi 23'19 21° \Pi 14'44 23° \Pi 55'03 0° m 18° m 40'49 0° \$\struct \struct \	1°19'17 1.32196 AU 27°13'44 0.61581 AU -3°55'53 3°54'05 17°54'34 0°44'04 0°43'36 1.42751 AU

asc. node	5371 Jan 25 13:59	20°≈17'54		evening set	5372 Jan 11 17:06	3° ≈ 07'55	
evening set	5371 Jan 27 10:33	19°≈06'15		asc. node	5372 Jan 11 17:00 5372 Jan 12 11:00	2°≈27'31	
inferior conj	5371 Feb 01 18:46	12°≈46'31	2°13'25	ase. Houe	5372 Jan 12 11:00	2702751 30°Rる	
minimum elong	5371 Feb 01 16:45	12°≈54'41	2°12'41	min. Earth dist.	5372 Jan 14 15:44 5372 Jan 16 15:48	27° る 20'35	0.68092 AU
min. Earth dist.	5371 Feb 01 19:01	12°≈45'39	0.68097 AU	inferior conj	5372 Jan 17 02:48	26° ප් 42'48	1°30'50
morning rise	5371 Feb 06 22:06	6°≈35'27	0.00077710	minimum elong	5372 Jan 17 02:46	26° ♂ 49'19	1°30'09
direct	5371 Feb 11 18:28	4°≈31'39		morning rise	5372 Jan 22 08:38	20° ප 36'10	1 30 07
morning max el	5371 Feb 21 10:29	10°≈13'58	22°31'28	direct	5372 Jan 26 14:51	18° る 55'12	
desc. node	5371 Mar 02 19:25	21°≈26'39	22 31 20	morning max el	5372 Feb 04 02:13	23° る 49'09	21°08'13
dese. Hode	5371 Mar 08 23:42	0° ∀		morning max or	5372 Feb 09 11:38	0°≈	21 00 15
morning set	5371 Mar 27 07:14	28°) (06'14		desc. node	5372 Feb 17 16:25	11°≈08'09	
morning sec	5371 Mar 28 10:56	0°Υ		desc. node	5372 Mar 01 08:44	0° ∀	
max. Earth dist.	5371 Apr 01 05:11	6° Υ 17'41	1.40477 AU	morning set	5372 Mar 01 00:44	6°) 54'47	
max. Earth dist.	33/17 tp i 01 03.11	0 11741	1.40477710	max. Earth dist.	5372 Mar 13 07:34	18°) 56'00	1.42516 AU
superior conj	5371 Apr 09 00:28	19° Y 57'19	-1°53'17	max. Lartii dist.	5372 Mar 19 07:54 5372 Mar 19 22:46	0°Υ	1.42310 AC
minimum elong	5371 Apr 09 05:20	20° Υ 19'20			3372 Widi 17 22.40	0 1	
minimum ciong	5371 Apr 14 11:38	0°8	1 32 33	superior conj	5372 Mar 20 13:00	1° Y 00'40	-2°07'27
evening rise	5371 Apr 19 02:01	8° 8 39'15		minimum elong	5372 Mar 20 15:18	1°Υ10'30	
asc. node	5371 Apr 19 02:01 5371 Apr 23 13:15	16° 8 59'39		evening rise	5372 Mai 20 13:18 5372 Apr 01 00:47	21° Υ 16'14	2 07 24
asc. node	5371 Apr 23 13:13 5371 May 01 10:26	0° Ⅱ		evening rise	5372 Apr 05 21:46	0° 8	
avaning may al	•	0 H 4°H30′28	18°22'16	asc. node	-	6° と 03'52	
evening max el	5371 May 05 05:27	4 П 30 28 8° П 09'45	18 22 10		5372 Apr 09 10:16	17° 8 28'56	18°07'10
retrograde	5371 May 12 13:55			evening max el	5372 Apr 17 16:21	_	18-07-10
evening set	5371 May 14 22:00	7° Ⅱ 48'36	2002120	retrograde	5372 Apr 24 08:05	20° 8 52'39	
inferior conj	5371 May 22 06:07	3° Ⅱ 12'48	2°02'39	evening set	5372 Apr 26 23:02	20° 8 21'10	2056146
minimum elong	5371 May 22 09:32	3° Ⅱ 05'44	2°01'38	inferior conj	5372 May 03 14:26	15° 8 24'37	
min. Earth dist.	5371 May 25 16:35	0° Ⅲ 23'51	0.58678 AU	minimum elong	5372 May 03 17:22	15° 8 17'35	2°56'11
	5371 May 26 04:58	30° ₹ 8		min. Earth dist.	5372 May 06 19:43	12° 8 21'01	0.60885 AU
morning rise	5371 May 29 17:56	27° 8 40'40		morning rise	5372 May 10 09:33	9° 8 30'31	
desc. node	5371 May 29 18:39	27° 8 39'43		desc. node	5372 May 15 15:41	7° 8 23'58	
direct	5371 Jun 04 21:04	26° 8 01'03		direct	5372 May 17 01:47	7° 8 18'05	
	5371 Jun 14 21:50	$\Pi^{\circ 0}$		morning max el	5372 May 31 08:04		27°48'13
morning max el	5371 Jun 19 06:25	3° Ⅱ 46′27	27°09'47		5372 Jun 12 07:41	$\Pi^{\circ}0$	
	5371 Jul 08 09:39	0			5372 Jun 29 21:24	0ංම	
morning set	5371 Jul 19 18:46	21° © 48'43		morning set	5372 Jul 02 23:45	6°©15'31	
asc. node	5371 Jul 20 12:31	23° © 22'21		asc. node	5372 Jul 06 09:31	13° © 26'11	
	5371 Jul 23 14:20	$0^{\circ}\Omega$		max. Earth dist.	5372 Jul 09 00:29	19° 5 07'33	1.32044 AU
superior conj	5371 Jul 26 19:59	7° Ω 07'26	1°01'38	superior conj	5372 Jul 10 06:54	21° © 54'23	0°39'36
minimum elong	5371 Jul 26 17:47			minimum elong	5372 Jul 10 05:14	21°545'12	
max. Earth dist.	5371 Jul 26 14:12	6° Ω 35'22	1.31906 AU	minimum crong	5372 Jul 13 23:14	0° Ω	0 37 11
evening rise	5371 Aug 02 15:35	21° Ω 59'33	1.51700710	evening rise	5372 Jul 17 02:20	6° Ω 46'30	
evening rise	5371 Aug 02 13:33 5371 Aug 06 12:49	0° m		evening rise	5372 Jul 29 04:43	0° m	
	5371 Aug 00 12:49	0∘ ʊ ೧.㎡		desc. node	5372 Aug 11 14:55	18° m) 08'25	
desc. node	5371 Aug 24 10:42 5371 Aug 25 17:54	0 == 1° ⊆ 19'42		evening max el	5372 Aug 11 14:55 5372 Aug 12 16:11	19° m 10'39	25°10'05
evening max el	5371 Aug 25 17:54 5371 Aug 31 22:47	8° £ 08'47	26°26'47	retrograde	5372 Aug 12 10:11 5372 Aug 26 14:23	26° M) 13'19	23 10 03
•	5371 Aug 31 22.47 5371 Sep 14 21:37	15° £ 17'09	20 20 47	-	5372 Aug 20 14.23 5372 Sep 01 06:20	25° m 00'01	
retrograde	-	13° ⊆ 17'09		evening set min. Earth dist.	*	~	0.57511 AU
evening set min. Earth dist.	5371 Sep 21 13:30 5371 Sep 25 12:19		0.59514 AU	inferior conj	5372 Sep 06 03:46 5372 Sep 09 03:27	22° m/18'09 20° m/17'28	
	5371 Sep 23 12:19 5371 Sep 28 18:09	8° £ 21'04		-		-•	
inferior conj minimum elong	-	8° £ 21'04 8° £ 09'56		minimum elong	5372 Sep	20° Mp 14'13 16° Mp 05'13	5 1051
	5371 Sep 28 23:51		+ 40 24	morning rise	5372 Sep 17 06:40	-•	
morning rise	5371 Oct 06 12:21	3° <u>•</u> 45'59		direct	5372 Sep 19 19:28	15° Mp 46'18	10004111
direct	5371 Oct 08 20:33	3° £ 26'30		morning max el	5372 Sep 28 16:59	19° M 58'56	19°04'11
asc. node	5371 Oct 16 11:45	7° £ 05'55	10010147	asc. node	5372 Oct 02 08:46	24° Mp 06'48	
morning max el	5371 Oct 16 15:02	7° Ω 13'46	18°18'47		5372 Oct 06 08:42	0° ⊽	
	5371 Oct 31 04:23	0°M		morning set	5372 Oct 15 11:17	16° £ 50'35	
morning set	5371 Nov 01 12:31	2°M32'32			5372 Oct 22 03:06	0° M	
superior conj	5371 Nov 10 18:07	19° M 54'25	1°13'04	superior conj	5372 Oct 23 18:23	3°ML10'11	1°31'47
minimum elong	5371 Nov 10 21:55	20°M11'45	1°12'37	minimum elong	5372 Oct 23 21:04	3°M23'05	1°31'34
3	5371 Nov 16 09:52	0°⊀		max. Earth dist.	5372 Oct 30 13:07	15°M48'33	1.38720 AU
max. Earth dist.	5371 Nov 18 07:42	3° ∡ 17'37	1.40831 AU	evening rise	5372 Nov 03 08:32	22°M31'43	
desc. node		9° √ 00'29		desc. node	5372 Nov 07 14:10	29°M41'06	
	5371 Nov 21 17:09	9 8.00 29					
evening rise	5371 Nov 21 17:09 5371 Nov 22 23:03	9 x ·00 29 11° x 03'49			5372 Nov 07 18:45	0° ∡	
evening rise					5372 Nov 07 18:45 5372 Nov 27 23:43	0°る	
evening rise evening max el	5371 Nov 22 23:03	11° ∡ 03'49	23°20'30	evening max el			24°39'19
	5371 Nov 22 23:03 5371 Dec 05 02:05	11° ҂ 03'49 0° ප	23°20'30	•	5372 Nov 27 23:43	8°0	24°39'19
	5371 Nov 22 23:03 5371 Dec 05 02:05 5371 Dec 27 06:12	11° メ 03'49 0°る 28°る59'01	23°20'30	evening max el retrograde evening set	5372 Nov 27 23:43 5372 Dec 08 19:23	0°ප 12°ප41'31	24°39'19

asc. node	5372 Dec 29 08:01	13° る 22'27		evening max el	5373 Nov 21 07:54	26° ∡ ¹25'08	25°50'32
min. Earth dist.	5372 Dec 30 11:22	11° る 53'43	0.67714 AU	<i>y</i>	5373 Nov 25 10:29	0°ెవ	
inferior conj	5372 Dec 31 09:21	10° ප් 40'41	0°41'24	retrograde	5373 Dec 03 18:08	3° ⋜ 30'42	
minimum elong	5372 Dec 31 08:22	10° ⋜ 43′58	0°41'01	evening set	5373 Dec 09 20:11	1° ⋜ 00'00	
morning rise	5373 Jan 05 20:00	4° る 40'28			5373 Dec 10 22:31	30°R. ✓	
direct	5373 Jan 09 13:07	3° る 21'22		min. Earth dist.	5373 Dec 14 03:26	26° ₹ 21'35	0.66975 AU
morning max el	5373 Jan 17 01:44	7° る 36'22	19°56'43	inferior conj	5373 Dec 15 12:35	24° ₹ ³37'08	-0°14'01
	5373 Feb 02 17:53	0° ≈		minimum elong	5373 Dec 15 12:57	24° ₹ ³35'58	0°13'50
desc. node	5373 Feb 03 13:26	1° ≈ 13'19		transit middle	5373 Dec 15 12:57	24° ₹ ³35'58	0°13'50
morning set	5373 Feb 12 16:08	15° ≈ 06′28		transit begin	5373 Dec 15 11:29	24° х ⁴40'34	
	5373 Feb 22 04:53	0° ℋ		transit end	5373 Dec 15 14:24	24° ₹ 31'23	
max. Earth dist.	5373 Feb 23 17:55	2° 升 27′16	1.44113 AU	asc. node	5373 Dec 16 05:02	23° ∡ ¹45'30	
				morning rise	5373 Dec 21 06:10	18° ∡ °45'30	
superior conj	5373 Mar 01 00:15	10°) € 56'03		direct	5373 Dec 24 11:50	17° ∡ ⁴45′29	
minimum elong	5373 Feb 28 20:48	10°) 41′56	2°06'23	morning max el	5373 Dec 31 09:00	21° ∡ ³33′29	18°59'57
	5373 Mar 12 10:26	$0^{\circ}\mathbf{\Upsilon}$			5374 Jan 07 04:47	0°る	
evening rise	5373 Mar 14 05:12	3° Y 02'41		desc. node	5374 Jan 21 10:27	21° る 35'28	
asc. node	5373 Mar 27 07:17	24° Y 37'30		morning set	5374 Jan 22 21:43	23° る 52'51	
	5373 Mar 31 11:54	0°8			5374 Jan 26 19:51	0° ≈	
evening max el	5373 Apr 01 05:13	0° 8 45'02	18°11'15	max. Earth dist.	5374 Feb 06 10:00	16° ≈ 34'03	1.45084 AU
retrograde	5373 Apr 07 15:05	4° 8 08'19					
evening set	5373 Apr 10 12:20	3° 8 25'06		superior conj	5374 Feb 08 12:33	19° ≈ 53'04	
	5373 Apr 14 21:00	30°RƳ		minimum elong	5374 Feb 08 03:41	19°≈18′05	1°45'18
inferior conj	5373 Apr 16 15:05	28° Y 08'59	3°24'40		5374 Feb 14 21:26	0°) {	
minimum elong	5373 Apr 16 16:31	28°Υ05'05	3°24'32	evening rise	5374 Feb 23 11:22	13°) €51'54	
min. Earth dist.	5373 Apr 19 07:46	25°Υ14'25	0.63008 AU	,	5374 Mar 05 09:58	0°Υ	
morning rise	5373 Apr 22 19:28	22°Υ02'10		asc. node	5374 Mar 14 04:19	12° Υ 30'33	10022147
direct	5373 Apr 29 15:48	19° Y 25'15 19° Y 50'03		evening max el	5374 Mar 15 17:14	14° Y 11'13 17° Y 46'57	18°33'47
desc. node	5373 May 02 12:42		27040151	retrograde	5374 Mar 22 06:25	1/°°\7'46'57 16°\7'51'08	
morning max el	5373 May 13 15:12	27° Y 25′23	27°48'51	evening set	5374 Mar 25 10:01	16° γ 51'08 11° γ 17'15	3°32'16
	5373 May 16 01:51 5373 Jun 06 00:28	0°H 8°0		inferior conj	5374 Mar 31 03:56 5374 Mar 31 03:47	11° Y 1713	3°32'16 3°32'15
morning set	5373 Jun 16 22:37	0 H 20°H21'45		minimum elong min. Earth dist.	5374 Mar 31 05.47 5374 Apr 02 05:19	8° Υ 49'39	0.64851 AU
morning set	5373 Jun 21 14:30	0°95		morning rise	5374 Apr 05 20:55	5° Υ 04'15	0.04631 AU
max. Earth dist.	5373 Jun 22 06:12	1° 5 23'23	1.32614 AU	direct	5374 Apr 12 13:46	2°Υ15'27	
asc. node	5373 Jun 23 06:32	3°933'37	1.32014 AU	desc. node	5374 Apr 12 13:40 5374 Apr 19 09:44	4° Υ 35'58	
ase. Hode	3373 Juli 23 00.32	3 33331		morning max el	5374 Apr 26 01:07	10° Υ 09'21	27°14'24
superior conj	5373 Jun 24 15:09	6° © 29'26	0°14'06	morning max or	5374 May 11 15:42	0°8	2/ 1727
minimum elong	5373 Jun 24 14:29	6°925'48	0°13'56		5374 May 11 13:42 5374 May 29 10:52	0°II	
behind sun begin	5373 Jun 24 11:55	6°9511'53	0 13 30	morning set	5374 May 31 12:32	3° П 58'06	
behind sun end	5373 Jun 24 17:03	6°539'43		max. Earth dist.	5374 Jun 05 03:12	13° Ⅱ 10′26	1.33638 AU
evening rise	5373 Jul 01 14:09	21° © 33'17					-100000
	5373 Jul 05 16:03	0°N		superior conj	5374 Jun 08 18:41	20° Ⅱ 45'42	-0°14'09
evening max el	5373 Jul 25 04:37	29° Ω 37'14	23°35'18	minimum elong	5374 Jun 08 19:26	20° Ⅱ 49'36	
· ·	5373 Jul 25 14:09	o° m⁄		behind sun begin	5374 Jun 08 16:43	20° Ⅱ 35′19	
desc. node	5373 Jul 29 11:56	3° mp 11'37		behind sun end	5374 Jun 08 22:08	21° II 03'53	
retrograde	5373 Aug 07 19:10	6° Mp 26'53		asc. node	5374 Jun 10 03:34	23° Ⅲ 39'51	
evening set	5373 Aug 12 00:01	5° Mp48′08			5374 Jun 13 02:51	0 \circ \odot	
min. Earth dist.	5373 Aug 18 14:24	2°M/41'55	0.55871 AU	evening rise	5374 Jun 16 01:06	6°512'47	
inferior conj	5373 Aug 20 16:34	1° m ,27′08	-5°07'54		5374 Jun 28 20:19	$0^{\circ}\Omega$	
minimum elong	5373 Aug 20 12:01	1° Mp 33'56	5°07'26	evening max el	5374 Jul 06 19:50	9° Ω 59'55	21°58'40
	5373 Aug 23 04:29	30° R Ω		desc. node	5374 Jul 16 08:58	15° Ω 54'37	
morning rise	5373 Aug 29 02:28	27° Ω 33'01		retrograde	5374 Jul 19 12:42	16° Ω 17'56	
direct	5373 Aug 31 22:48	27° Ω 12'57		evening set	5374 Jul 22 07:19	16° Ω 00'42	
	5373 Sep 08 20:12	O° m y		min. Earth dist.	5374 Jul 31 00:22	12° Ω 16′16	0.54917 AU
morning max el	5373 Sep 11 07:45	2°Mp02'24	20°11'33	inferior conj	5374 Jul 31 13:58	11° Ω 57'11	
asc. node	5373 Sep 19 05:48	12°Mp02'54		minimum elong	5374 Jul 31 05:09	12° Ω 09'33	4°05'19
	5373 Sep 28 23:28	0∘ ⊽		morning rise	5374 Aug 09 04:33	8° Ω 06'50	
morning set	5373 Sep 29 16:27	1° ≏ 26′18		direct	5374 Aug 12 10:50	7° Ω 43'20	
	5050 0 05 55	180 6 6	104115	morning max el	5374 Aug 24 10:27	13° Ω 20′01	21°39'14
superior conj	5373 Oct 07 08:10	17° £ 05'33		_	5374 Sep 05 17:29	0° m y	
minimum elong	5373 Oct 07 09:18	17° £ 11'16		asc. node	5374 Sep 06 02:50	0° mp 41'11	
max. Earth dist.	5373 Oct 12 19:09		1.36674 AU	morning set	5374 Sep 14 01:38	16° Mp 13'01	
	5373 Oct 13 22:59	0°M			5374 Sep 20 14:33	0∘ ⊽	
evening rise	5373 Oct 16 15:12	4°M57'16			5274 C 21 27 22	10.00000	1042100
desc. node	5373 Oct 25 11:11	20°M12'03		superior conj	5374 Sep 21 07:29	1° Ω 28'39	
	5373 Oct 31 16:48	0° ∡ 7		minimum elong	5374 Sep 21 07:10	1° ≏ 27'00	1°43'09

max. Earth dist.	5374 Sep 25 07:08	9° ≙ 40'08	1.34900 AU	max. Earth dist.	5375 Sep 08 03:59	21°m44'20	1.33518 AU
evening rise	5374 Sep 29 15:08	18° £ 10'59	1.5 .5 00 110	man Barur dige.	5375 Sep 12 03:55	0∘ ⊽	1.55010110
	5374 Oct 06 02:05	0°M		evening rise	5375 Sep 13 04:11	2° ჲ 01'35	
desc. node	5374 Oct 12 08:13	10°M28'16		<i>y</i>	5375 Sep 28 23:26	0°M	
	5374 Oct 25 21:57	0° ∡ ¹		desc. node	5375 Sep 29 05:16	0°M22'32	
evening max el	5374 Nov 03 20:36	10° ∡ *04'45	26°46'45	evening max el	5375 Oct 17 09:00	23°M30'27	27°20'35
retrograde	5374 Nov 16 22:45	17° × 21'31			5375 Oct 26 17:59	0°⊀	
evening set	5374 Nov 23 13:08	14° ∡ °43′00		retrograde	5375 Oct 30 21:22	0° ≯ 48'49	
min. Earth dist.	5374 Nov 27 13:49	10° ∡ ³39'46	0.65882 AU		5375 Nov 03 19:08	30°RM	
inferior conj	5374 Nov 29 10:31	8° ≯ 28'43	-1°14'16	evening set	5375 Nov 06 21:12	28°M10'00	
minimum elong	5374 Nov 29 12:37	8° ∡ ¹22'34	1°13'23	min. Earth dist.	5375 Nov 10 16:14	24°M40'55	0.64451 AU
asc. node	5374 Dec 03 02:05	4° ≯ 34'01		inferior conj	5375 Nov 13 00:48	22°M09'40	-2°17'41
morning rise	5374 Dec 05 12:59	2° х 48′09		minimum elong	5375 Nov 13 04:49	21°M58'52	2°16'06
direct	5374 Dec 08 09:11	2° х 03′28		morning rise	5375 Nov 19 13:45	16°M43'09	
morning max el	5374 Dec 14 22:10	5° ∡ 35′28	18°19'21	asc. node	5375 Nov 19 23:09	16°M33'46	
	5374 Dec 31 18:03	0°₹		direct	5375 Nov 22 02:53	16°M09'49	
morning set	5375 Jan 03 06:14	4° る 02'42		morning max el	5375 Nov 28 14:33	19°M35'04	17°55'36
desc. node	5375 Jan 08 07:29	12° る 09'44			5375 Dec 06 09:24	0° ∡	
				morning set	5375 Dec 15 19:45	15° ∡ ³37'58	
superior conj	5375 Jan 18 15:43	28° る 32'39			5375 Dec 24 10:32	0°る	
minimum elong	5375 Jan 18 07:37	28° පි 00'52	1°06'50	desc. node	5375 Dec 26 04:29	2° る 51'32	
To all III	5375 Jan 19 13:59	0° ≈	1 45222 411		5375 D 20 05 52	70740122	0001117
max. Earth dist.	5375 Jan 20 04:49	0°≈58'10	1.45333 AU	superior conj	5375 Dec 29 05:52	7°る48'33	
evening rise	5375 Feb 03 18:33	23°≈46'47 0° 米		minimum elong max. Earth dist.	5375 Dec 29 03:20 5376 Jan 02 23:49	7°る38'25 15°る22'58	
	5375 Feb 07 17:46	10° ¥ 52'12	-0.8m	max. Earth dist.		13° ⊘ 22′38	1.44846 AU
greatest brilliancy evening max el	5375 Feb 14 17:25 5375 Feb 27 02:09	27°\dagger 43'08	-0.8m 19°13'46	evening rise	5376 Jan 12 08:35 5376 Jan 14 08:41	0°≈ 3°≈05'16	
asc. node	5375 Feb 27 02:09 5375 Mar 01 01:22	27 X 43 08 29° X 31'29	19 13 40	greatest brilliancy	5376 Jan 29 02:21	25°≈20'50	-0.6m
asc. Houe	5375 Mar 01 01:22	29 γ (3129		greatest billiancy	5376 Jan 29 02:21 5376 Feb 01 07:49	23 ≈ 20 30	-0.0111
retrograde	5375 Mar 06 02:32	1° Υ 42'23		evening max el	5376 Feb 10 06:20	11°) 17'06	20°09'22
evening set	5375 Mar 00 02:32 5375 Mar 09 13:14	0° Υ 33'07		asc. node	5376 Feb 15 22:26	15°) (25'34	20 0722
evening set	5375 Mar 10 07:15	30° R ₩		retrograde	5376 Feb 18 00:36	15°) (48'49	
inferior conj	5375 Mar 15 01:28	24°) (43'18	3°24'21	evening set	5376 Feb 21 19:39	14°) (15'19	
minimum elong	5375 Mar 15 00:06	24°) (47'41	3°24'12	inferior conj	5376 Feb 27 04:45	8° ¥ 21'35	3°04'20
min. Earth dist.	5375 Mar 16 11:33	22°) 53'35	0.66306 AU	minimum elong	5376 Feb 27 02:37	8°) €28'45	3°03'55
morning rise	5375 Mar 20 10:37	18° ∺ 28′20		min. Earth dist.	5376 Feb 28 00:37	7°) 14′25	0.67333 AU
direct	5375 Mar 26 18:24	15°) 40'41		morning rise	5376 Mar 03 09:22	2°) €07'02	
desc. node	5375 Apr 06 06:46	21°) €08'33		-	5376 Mar 06 15:43	30°R≈	
morning max el	5375 Apr 08 11:03	23°) 14′09	26°12'01	direct	5376 Mar 09 04:33	29° ≈ 31′28	
	5375 Apr 14 11:04	$0^{\circ}\mathbf{\Upsilon}$			5376 Mar 11 21:11	0°) €	
	5375 May 04 23:41	0° 8		morning max el	5376 Mar 20 19:49	6° ¥ 29′07	24°51'20
morning set	5375 May 14 13:48	16° 8 54'17		desc. node	5376 Mar 23 03:46	8°) (57'47	
max. Earth dist.	5375 May 18 12:48	24° 8 26'33	1.35133 AU		5376 Apr 08 01:49	0 ° Υ	
	5375 May 21 08:22	$\Pi^{\circ}0$		morning set	5376 Apr 25 21:33	28° Y 56'31	
					5376 Apr 26 11:50	0° 8	
superior conj	5375 May 23 15:09	4° Ⅱ 36'51		max. Earth dist.	5376 Apr 29 12:20	5° 8 28'35	1.37046 AU
minimum elong	5375 May 23 17:35	4° Ⅱ 49'15	0°43'29				
asc. node	5375 May 28 00:37	13° Ⅱ 41'12		superior conj	5376 May 06 01:31	17° 8 54'53	
evening rise	5375 May 31 09:14	20° Ⅲ 39'21		minimum elong	5376 May 06 05:36	18° 8 14'53	1°12'57
	5375 Jun 05 01:00	0°©	20022126	Ā	5376 May 12 03:13	0° П	
evening max el	5375 Jun 18 21:23	20°950'41	20°33'26	asc. node	5376 May 13 21:41	3° Ⅱ 33'34	
retrograde	5375 Jun 30 01:14	26°5018'57		evening rise	5376 May 14 12:13	4°∏46′23 0°©	
evening set desc. node	5375 Jul 02 01:37 5375 Jul 03 06:01	26°©08'59 25°©54'17		evening max el	5376 May 29 06:46 5376 May 31 11:34	0	19°26'28
inferior conj	5375 Jul 03 00:01 5375 Jul 11 07:25	23 \$3417 22°\$11'54	2022/48	retrograde	5376 Jun 09 21:42	6°959'51	19 20 28
minimum elong	5375 Jul 11 07:25	22°921'25		evening set	5376 Jun 11 20:15	6° © 48'59	
min. Earth dist.	5375 Jul 12 11:46	21°931'00		desc. node	5376 Jun 19 03:02	3° 9 34'18	
morning rise	5375 Jul 12 11:40 5375 Jul 19 23:16	18°905'16	0.5 1007 AU	inferior conj	5376 Jun 20 11:21	2°942'46	-0°24'08
direct	5375 Jul 23 20:28	17°932'45		minimum elong	5376 Jun 20 10:17	2° 9 44'29	
morning max el	5375 Aug 06 03:36	23°958'27	23°20'43	min. Earth dist.	5376 Jun 23 01:21	1°903'05	0.55812 AU
	5375 Aug 10 05:50	0°Ω		uiot.	5376 Jun 24 19:13	30°R∏	
asc. node	5375 Aug 23 23:53	19° Ω 51'14		morning rise	5376 Jun 28 21:36	28° ∏ 04'11	
	5375 Aug 29 00:34	0° m)		direct	5376 Jul 03 15:26	27° Ⅱ 13′22	
morning set	5375 Aug 29 12:56	1° mp 05'05			5376 Jul 12 06:26	0°€	
-	-			morning max el	5376 Jul 17 17:02	4° © 19'09	25°03'36
superior conj	5375 Sep 05 13:11	16°M/09'41	1°38'21		5376 Aug 04 23:46	$0^{\circ}\Omega$	
minimum elong	5375 Sep 05 11:46	16° Mp 02′02	1°38'16	asc. node	5376 Aug 09 20:56	9° Ω 24'46	

morning set	5376 Aug 13 00:41	15° Ω 57'45		asc. node	5377 Jul 27 17:58	29° © 14'15	
	5376 Aug 19 11:42	0° т р		morning set	5377 Jul 28 11:11	0° Ω 44'44	
					5377 Jul 28 02:41	$0 {\circ} \Omega$	
superior conj	5376 Aug 19 22:52	1°Mp01'13	1°27'55				
minimum elong	5376 Aug 19 20:46	0° Mp 49'45	1°27'40	superior conj	5377 Aug 04 10:25	15° Ω 55'27	1°12'32
max. Earth dist.	5376 Aug 21 08:58	4° Mp 07'28	1.32562 AU	minimum elong	5377 Aug 04 08:07	15° Ω 42'44	1°12'09
evening rise	5376 Aug 27 02:46	16° Mp 19'04		max. Earth dist.	5377 Aug 04 18:54		1.32028 AU
1 1	5376 Sep 03 03:06	0° ™			5377 Aug 10 21:44	0° m/y	
desc. node	5376 Sep 15 02:18	19° Ω 45'45		evening rise	5377 Aug 11 07:53	0° m 53'26	
avanina may al	5376 Sep 22 18:29 5376 Sep 28 19:07	0° M 6° M 29'34	27925125	daga mada	5377 Aug 27 04:02	0° ჲ 8° ჲ 24'10	
evening max el retrograde	5376 Sep 28 19.07 5376 Oct 12 13:07	13°M44'15	21 23 33	desc. node evening max el	5377 Sep 01 23:20 5377 Sep 11 00:00	8 ≗ 24 10 18° £ 47'24	26057120
evening set	5376 Oct 12 13:07 5376 Oct 19 17:16	13 IIC44 13		retrograde	5377 Sep 11 00:00 5377 Sep 24 21:14	16 = 47 24 25° £ 57'57	20 37 39
min. Earth dist.	5376 Oct 19 17:16 5376 Oct 23 08:42	8°M15'46	0.62710 AU	evening set	5377 Oct 01 21:09	23° £ 49'56	
inferior conj	5376 Oct 26 04:35	5°M33'29		min. Earth dist.	5377 Oct 01 21:09 5377 Oct 05 14:14		0.60720 AU
minimum elong	5376 Oct 26 10:19	5°M19'44	3°19'16	inferior conj	5377 Oct 08 18:31	18° ⊆ 30'37	
morning rise	5376 Nov 02 05:04	0°M24'29	3 17 10	minimum elong	5377 Oct 09 10:51	18° ⊆ 30'37	
morning rise	5376 Nov 04 01:58	30°R ≏		morning rise	5377 Oct 16 06:37	13° Ω 42'43	1 17 50
direct	5376 Nov 04 01:50	29° £ 58'52		direct	5377 Oct 18 14:06	13° ⊆ -12'45	
anoct	5376 Nov 05 01:40	0°M		asc. node	5377 Oct 23 17:12	15° ⊆ 10'05	
asc. node	5376 Nov 05 20:11	0°M06'23		morning max el	5377 Oct 25 20:49	16° £ 58'30	18°02'24
morning max el	5376 Nov 11 07:10	3°M25'37	17°49'34	morning man vi	5377 Nov 04 01:44	0°M	10 022.
morning set	5376 Nov 27 08:38	28°M20'43	17 1931	morning set	5377 Nov 10 14:29	11°ML51'21	
morning sec	5376 Nov 28 07:04	0°×7		morning sec	2377110710111.25	11 1100121	
	23701107 20 07.01	• • •		superior conj	5377 Nov 20 12:58	0° х 00′43	0°57'41
superior conj	5376 Dec 08 20:23	18° ∡ 16'38	0°22'39	minimum elong	5377 Nov 20 16:50	0° х 17′50	0°57'11
minimum elong	5376 Dec 08 22:32	18° ≯ 25'43	0°22'22		5377 Nov 20 12:48	0° ∡ 7	
desc. node	5376 Dec 12 01:32	23° х 37'43		max. Earth dist.	5377 Nov 28 04:22	13° ∡ ¹09'07	1.41974 AU
max. Earth dist.	5376 Dec 15 16:31	29° х 32′26	1.43684 AU	desc. node	5377 Nov 28 22:33	14° ∡ 724'42	
	5376 Dec 15 23:21	0° る		evening rise	5377 Dec 03 18:31	22° ҂ 16'38	
evening rise	5376 Dec 23 19:34	12° る 22'58		C	5377 Dec 08 16:24	0°ರ	
Č	5377 Jan 04 11:27	0°≈			5377 Dec 29 15:31	0° ≈	
evening max el	5377 Jan 23 04:59	24°≈51'57	21°17'41	evening max el	5378 Jan 05 22:31	8° ≈ 28'28	22°34'33
	5377 Jan 31 06:31	0° ∀		retrograde	5378 Jan 15 18:38	14° ≈ 19'19	
retrograde	5377 Jan 31 22:31	0°) €02'18		asc. node	5378 Jan 19 16:29	12° ≈ 59'45	
asc. node	5377 Feb 01 19:28	29° ≈ 58'13		evening set	5378 Jan 20 10:49	12° ≈ 24'51	
	5377 Feb 01 14:17	30° R ≈		inferior conj	5378 Jan 25 19:27	6° ≈ 02'12	1°56'13
evening set	5377 Feb 05 03:23	28° ≈ 23′26		minimum elong	5378 Jan 25 17:15	6° ≈ 09'53	1°55'29
inferior conj	5377 Feb 10 11:24	22° ≈ 08'40	2°34'27	min. Earth dist.	5378 Jan 25 14:46	6° ≈ 18'29	0.68136 AU
minimum elong	5377 Feb 10 09:00	22° ≈ 16′58	2°33'49	morning rise	5378 Jan 30 23:34	29° る 53'00	
min. Earth dist.	5377 Feb 10 18:25	21° ≈ 44′24	0.67935 AU		5378 Jan 30 20:16	30°R₹	
morning rise	5377 Feb 15 14:27	15° ≈ 56′06		direct	5378 Feb 04 13:45	27° る 59'08	
direct	5377 Feb 20 19:15	13° ≈ 39'45			5378 Feb 09 20:32	0° ≈	
morning max el	5377 Mar 03 04:47	19° ≈ 50′29	23°22'32	morning max el	5378 Feb 13 17:10	3° ≈ 20'06	21°55'02
desc. node	5377 Mar 10 00:47	27° ≈ 41'55		desc. node	5378 Feb 24 21:47	17° ≈ 05'45	
	5377 Mar 11 19:47	0° ∀			5378 Mar 05 21:22	0° ∀	
	5377 Apr 01 06:29	0° Υ		morning set	5378 Mar 18 09:49	19° ∺ 20′31	
morning set	5377 Apr 07 05:48	9° Ƴ 48'38		max. Earth dist.	5378 Mar 24 06:31	28° ¥ 55'59	1.41375 AU
max. Earth dist.	5377 Apr 11 07:56	16° Ƴ 49'14	1.39214 AU		5378 Mar 24 21:49	$\mathbf{\gamma}_{0}$	
	5388 A 46 51 51	001 1000-	104020		5050 Nr. 01 00 00	100000000	2000117
superior conj	5377 Apr 18 21:50	0° 8 29'12		superior conj	5378 Mar 31 23:21	12° Y 08'40	
minimum elong	5377 Apr 19 02:53	0° 8 52'46	1°39'56	minimum elong	5378 Apr 01 03:33	12° Y 27'10	2°00'32
	5377 Apr 18 15:32	0° 8			5378 Apr 10 19:25	0° 8	
evening rise	5377 Apr 28 07:10	18° 8 25'39		evening rise	5378 Apr 11 14:31	1° 8 28'24	
asc. node	5377 Apr 30 18:44	23° Β 11'46		asc. node	5378 Apr 17 15:46	12° 8 30'30	10012127
ovonina ma1	5377 May 04 10:37	0° Π 14° Π 25'45	10020140	evening max el	5378 Apr 27 20:39	27° ႘ 20'02	18-15-27
evening max el	5377 May 14 12:26	14° Ⅲ 35'45 18° Ⅲ 31'38	10 3747	ratragrada	5378 May 01 10:32	0°П 0°П51'13	
retrograde	5377 May 24 15:53	18°Щ31'38 18°Щ15'14		retrograde	5378 May 04 20:49	0°Щ31°13 0°Щ26'02	
evening set inferior conj	5377 May 24 15:53 5377 Jun 01 11:03	18°Щ15′14 13°Щ50′47	1°17'36	evening set	5378 May 07 07:45 5378 May 08 09:37	0°Щ26°02 30°R 8	
minimum elong	5377 Jun 01 11:03 5377 Jun 01 13:44	13° Д 30'47	1°16'40	inferior conj	5378 May 08 09:37 5378 May 14 08:16	25° 8 41'12	2°20'08
min. Earth dist.	5377 Jun 01 13:44 5377 Jun 04 18:33	13°Щ43'43 11°Щ21'53	0.57491 AU	minimum elong	5378 May 14 08:16 5378 May 14 11:41	25° 8 33'39	
desc. node	5377 Jun 04 18:33 5377 Jun 06 00:03	11° Щ 21′33 10° Щ 30′43	0.37471 AU	min. Earth dist.	5378 May 14 11:41 5378 May 17 17:43	23° 8 42'55	0.59600 AU
morning rise	5377 Jun 09 08:17	8° Д 36'13		morning rise	5378 May 17 17:43 5378 May 21 12:51	19° 8 58'07	0.57000 AU
direct	5377 Jun 15 00:09	7° Ⅱ 16'40		desc. node	5378 May 23 21:03	19 8 50'04	
morning max el	5377 Jun 29 09:06	14° I I50′29	26°31'43	direct	5378 May 27 22:22	18° 8 04'09	
monning man or	5377 Jul 11 13:10	0°9	20 01 10	morning max el	5378 Jun 11 07:19	25° 8 55'46	27°30'44
	55,, 5ui 11 15.10	· •		morning max of	55,0 Juli 11 07.19	25 055 40	2, 30 - 1

	5378 Jun 15 02:30	0° Ⅱ			5379 May 12 18:59	0°B	
	5378 Jul 04 23:31	0°9		morning max el	5379 May 24 11:35	7° 8 42'19	27°53'03
morning set	5378 Jul 12 18:45	15° © 20'55			5379 Jun 10 12:02	0°П	_,
asc. node	5378 Jul 14 15:00	19°514'26		morning set	5379 Jun 26 21:27	29° Ⅱ 39'51	
				Č	5379 Jun 27 01:23	0°©	
superior conj	5378 Jul 19 22:05	0° Ω 46'51	0°52'46	asc. node	5379 Jul 01 12:03	9° 5 20'21	
minimum elong	5378 Jul 19 20:02	0° £ 35'36	0°52'21	max. Earth dist.	5379 Jul 02 14:44	11°5544'20	1.32225 AU
max. Earth dist.	5378 Jul 19 06:06	29°518'44	1.31915 AU				
	5378 Jul 19 13:35	$0^{\circ}\Omega$		superior conj	5379 Jul 04 08:06	15° © 29'31	0°29'11
evening rise	5378 Jul 26 17:10	15° Ω 37'37		minimum elong	5379 Jul 04 06:48	15° © 22'24	0°28'53
	5378 Aug 02 20:27	O° Mp			5379 Jul 10 23:54	$0 {\circ} \mathcal{O}$	
desc. node	5378 Aug 19 20:20	25° m 59'51		evening rise	5379 Jul 11 04:35	0° Ω 25′00	
	5378 Aug 23 14:47	0∘ ⊽			5379 Jul 27 09:58	0° ™	
evening max el	5378 Aug 23 21:31	0° ≏ 16′09	25°57'03	evening max el	5379 Aug 05 12:12	11° Mp 00'42	24°31'07
retrograde	5378 Sep 06 20:37	7° £ 23'06		desc. node	5379 Aug 06 17:21	12°Mp08'05	
evening set	5378 Sep 13 04:03	5° £ 47'51		retrograde	5379 Aug 19 08:55	17° m 59'52	
min. Earth dist.	5378 Sep 17 10:03	3° £ 12′23	0.58643 AU	evening set	5379 Aug 24 10:32	17° m 02'28	
inferior conj	5378 Sep 20 15:06	0° £ 51'41		min. Earth dist.	5379 Aug 29 23:21	14° Mp 11'49	0.56747 AU
minimum elong	5378 Sep 20 19:38	0° £ 43'21	5°02'57	inferior conj	5379 Sep 01 15:48	12° Tp 29'02	
	5378 Sep 21 19:34	30°RMp		minimum elong	5379 Sep 01 15:07	-	5°18'50
morning rise	5378 Sep 28 13:30	26° Mp 26'49		morning rise	5379 Sep 09 22:07	8° Mp 25'24	
direct	5378 Sep 30 23:09	26° Mp 07'56	10025127	direct	5379 Sep 12 13:34	8° Mp 06'20	19°30'06
morning max el	5378 Oct 09 04:05 5378 Oct 09 02:13	0° ೭ 04'28 0° ೭	18°35'27	morning max el asc. node	5379 Sep 22 01:39 5379 Sep 27 11:16	12° m 33'42 18° m 59'20	19-30 06
asc. node	5378 Oct 10 14:13	0 == 1° £ 32'45		asc. node	5379 Sep 27 11:10 5379 Oct 04 02:14	0° ⊽	
morning set	5378 Oct 10 14:13 5378 Oct 25 08:11	25° £ 55'10		morning set	5379 Oct 04 02:14 5379 Oct 09 10:03	0 = 10° £ 22'05	
morning set	5378 Oct 27 10:40	0°M		morning set	3379 Oct 09 10.03	10 = 22 03	
	3370 300 27 10.10	0 110		superior conj	5379 Oct 17 09:53	26° ჲ 22'32	1°36'51
superior conj	5378 Nov 03 03:15	12° M 47'45	1°22'12	minimum elong	5379 Oct 17 11:55	26° ₽ 32'32	
minimum elong	5378 Nov 03 06:41	13°ML03'45	1°21'51	8	5379 Oct 19 06:32	0°M₊	
max. Earth dist.	5378 Nov 10 11:00	26°MJ02'11	1.39936 AU	max. Earth dist.	5379 Oct 23 15:44	8°M16'44	1.37829 AU
	5378 Nov 12 18:07	0° ∡ ¹		evening rise	5379 Oct 27 09:48	15° ™ 03'20	
evening rise	5378 Nov 14 14:46	3° х 08′49		desc. node	5379 Nov 02 16:37	25°M46'24	
desc. node	5378 Nov 15 19:34	5° ≯ 08'50			5379 Nov 05 07:09	0° ∡ ¹	
	5378 Dec 01 22:31	0°ರ			5379 Nov 26 15:34	ರ°ರ	
evening max el	5378 Dec 19 12:35	22° පි 08'16	23°54'33	evening max el	5379 Dec 02 01:24	5° る 52'22	25°11'01
retrograde	5378 Dec 30 11:34	28° ප 35'34		retrograde	5379 Dec 14 00:16	12° る 46'55	
evening set	5379 Jan 04 16:21	26° පි 25'49		evening set	5379 Dec 19 18:27	10° පි 23'18	
asc. node	5379 Jan 06 13:29	24° る 33'55		min. Earth dist.	5379 Dec 24 05:51	5° る 24'27	0.67442 AU
min. Earth dist.	5379 Jan 09 11:20	20° る 52'48	0.67967 AU	asc. node	5379 Dec 24 10:29	5° る 09'26	
inferior conj	5379 Jan 10 03:04	19° る 59'22	1°10'38	inferior conj	5379 Dec 25 08:28	3° る 57'43	0°18'36
minimum elong	5379 Jan 10 01:30	20° る 04'41	1°10'03	minimum elong	5379 Dec 25 08:00	3° る 59'14	0°18'25
morning rise	5379 Jan 15 10:40	13°₹55'08			5379 Dec 28 14:56	30°₹ ⋌	
direct	5379 Jan 19 11:01	12° る 23'53	2002(100	morning rise	5379 Dec 30 21:48	28° 🗷 00'34	
morning max el	5379 Jan 27 12:05	17° る 00'25	20°36'08	direct	5380 Jan 03 09:48	26° ∡ 749'56	
JJ.	5379 Feb 06 22:12	0°≈ (°••58'01			5380 Jan 09 17:04 5380 Jan 10 14:58	0° ろ	10020122
desc. node morning set	5379 Feb 11 18:48 5379 Feb 25 12:50	6°≈58'01 27°≈45'12		morning max el greatest brilliancy	5380 Jan 10 14:38 5380 Jan 23 17:02	0°る52'16 18°る11'44	19°30'33 -0.7m
morning set	5379 Feb 26 23:27	0° H		desc. node	5380 Jan 29 15:51	27° ට 11'20	-0.7111
max. Earth dist.	5379 Net 26 23.27 5379 Mar 06 11:50	11° X 55'59	1.43253 AU	dese. Houe	5380 Jan 31 11:55	27 O1120 0°≈	
max. Latur dist.	3377 Wai 00 11.30	11 (333)	1.43233 AO	morning set	5380 Feb 04 10:03	6°≈02'14	
superior conj	5379 Mar 13 01:16	22°) 42'34	-2°09'15	max. Earth dist.	5380 Feb 17 00:30	0 ≈02 14 25°≈42'49	1.44614 AU
minimum elong	5379 Mar 13 01:26	22°) (43'16		man. Barm dist.	5380 Feb 19 17:15	0° ∀	1.1.1011110
	5379 Mar 17 08:42	$_{0}^{\circ}\mathbf{\gamma}$					
evening rise	5379 Mar 25 05:58	13° Ƴ 44'19		superior conj	5380 Feb 21 01:54	2°) 10′28	-2°00'17
Č	5379 Apr 03 16:09	0°8		minimum elong	5380 Feb 20 19:42	1°) 45′39	
asc. node	5379 Apr 04 12:47	1° 8 22'32		evening rise	5380 Mar 06 01:13	25°) €06'03	
evening max el	5379 Apr 11 08:44	10° 8 26'31	18°06'41	-	5380 Mar 08 23:16	0° Y	
retrograde	5379 Apr 17 20:52	13° 8 48'26		asc. node	5380 Mar 21 09:48	19° Y 39'53	
evening set	5379 Apr 20 14:28	13° 8 12'14		evening max el	5380 Mar 24 21:36	23° Y 47'32	18°18'43
inferior conj	5379 Apr 27 00:01	8° 8 07'30	3°11'26	retrograde	5380 Mar 31 07:44	27° Y °14'17	
minimum elong	5379 Apr 27 02:23	8° 8 01'32	3°11'04	evening set	5380 Apr 03 07:42	26° Y 25'46	
min. Earth dist.	5379 Apr 30 00:40	5° 8 04'44	0.61806 AU	inferior conj	5380 Apr 09 06:17	21° Y °02'06	3°30'02
morning rise	5379 May 03 12:29	2° 8 06'48		minimum elong	5380 Apr 09 07:02	20° Y ′59'59	3°29'59
	5379 May 07 21:51	30° ₹ Υ		min. Earth dist.	5380 Apr 11 16:41	18° Y 17'08	0.63839 AU
direct	5379 May 10 07:32	29° Y 42'14		morning rise	5380 Apr 15 05:24	14° Y 52'15	
desc. node	5379 May 10 18:04	29° Ƴ 42'48		direct	5380 Apr 22 01:17	12° Ƴ 08′21	

See Note		5200 A 26 15 05	1200011127			5201 M 20 12 20	2001/04/22	
SSB May 14 07.06 0°F 10°F 10°	desc. node	5380 Apr 26 15:05	13° ℃ 11'37		morning rise	5381 Mar 29 12:28	28° ¥ 04'32	
1880 10 10 12 12 13 13 14 15 15 15 15 15 15 15	morning max el	•		27°38'05		*		
Manus		5380 May 14 07:05			desc. node	5381 Apr 13 12:08		
max Earth data \$380 Jun 10 cm 297 LP728 3298 AU morning are come on some on come of some of the complex of t		5380 Jun 02 12:48	Π $^{\circ}0$			5381 Apr 15 00:24	0° Υ	
Second Second February Second February Second	morning set	5380 Jun 09 16:52	13° Ⅲ 33'55		morning max el	5381 Apr 18 06:04	3° ℃ 01′05	26°50'49
Septembor Sept	max. Earth dist.	5380 Jun 14 16:57	23° Ⅱ 47'25	1.32986 AU		5381 May 08 14:11	0° 8	
	asc. node	5380 Jun 17 09:05	29° Ⅱ 27'33		morning set	5381 May 24 01:55	26° 8 54'31	
						5381 May 25 16:23	$\Pi^{\circ}0$	
Designation 1988	superior coni	5380 Jun 17 14:37	29°∏57'13	0°02'25	max. Earth dist.	•		1.34218 AU
Decimination Simplin 19 19 19 19 19 19 19 1						2222 2230 22 22 22		
Deciming the content	•			0 02 23	superior coni	5381 Jun 01 15:31	1.4°π03'51	0°26'40
1961 1972	C							
Second S	bennia sun ena				Č			0 2023
1								
Section Sect	evening rise				evening rise			
descinded 5380 Jul 23 1422 26/21/091 certingmake 5381 Jul 23 19-56 19/25379 21°20729 certingmake 5380 Jul 20 16123 77/25174 certingmake 5380 Jul 20 19-27 24°421201 0.55362 AU retingmake 5381 Jul 10 22-07 77/25174 certingmake 5380 Jul 20 19-27 24°421201 0.55362 AU retingmake 5381 Jul 10 20-27 77/25174 certingmake 5380 Jul 20 12-22 24°421201 0.55362 AU retingmake 5381 Jul 10 20-27 77/25174 certingmake 5380 Jul 20 12-22 24°421201 0.55362 AU retingmake 5380 Jul 20 20-24 24°421201 0.574000 0.5811 Jul 20 0.58 0.5811 Jul 20								
Properties Sabou 30 0815 282,0071 1 1 1 1 1 1 1 1 1	•			22°53'41				
enemine and min. Earth dist. 5380 Aug 10 2022 2°F/321741 centengate of evening set of sist lad 13 66.57 7°F/35142 10 20 20 20 20 20 20 20 20 20 20 20 20 20	desc. node	5380 Jul 23 14:22	26° Ω 16′04		evening max el	5381 Jun 28 19:56	1° Ω 53'29	21°20'29
mine End dist S88 May B 10 90-27 24-8/12/101 55.586 Au J. 1 centing compliant of S88 May B 1 1420 24-8/12/102 4-8/12/102 centing compliant of S88 May B 1 1420 23-8/20/302 4-4740 minimum clong 588 Jul 2 2 1635 36/20/302 37-20/302 37-20/302 4-4740 minimum clong 588 Jul 2 2 1635 37-20/302 37-20/302 37-20/302 4-4740 minimum clong 588 Jul 2 2 10-30 37-20/302	retrograde	5380 Jul 30 08:15			desc. node	5381 Jul 10 11:23	7° Ω 51'14	
inferior conj 538 0Aug 11 2121 23°,12072 4°4873 inferior conj 538 1 Jul 22 1515 3°,123948 3°2710 minimum clong 5380 Aug 11 422 23°,23072 4°4740 minimum clong 5381 Jul 22 19036 3°,42372 20°4785 AU direct 5380 Aug 23 0948 19°,40874 minimum clong 5381 Jul 20 19065 30°,42372 20°4785 AU asc. node 5380 Sep 08 12:20 0°Pm direct 5381 Aug 10 1908 29°,529730 20°,120 asc. node 5380 Sep 22 17:15 25°90335 morning max el 5381 Aug 10 1901 3°,421752 20°210*1 superior conj 5380 Sep 30 04:11 10°,23312 14258 morning set 5381 Sep 02 06:26 0°Pm 20°,2116 22°2171 22°2172 1112 20°,2116 22°2172 22°117 24°258 morning max el 5381 Aug 10 60;41 23°116 22°117 22°117 13°288 20°117 23°218 23°218 22°117 22°117 23°288 20°117 23°288 23°288 20°11 23°288 23°288 23	evening set	5380 Aug 02 21:24	27° Ω 32'41		retrograde	5381 Jul 10 22:07	7° Ω 51'42	
minimum elong 538 OAug 11 1420 23°2032 4°4740 minimum elong 538 I Jul 22 0636 3°20352 3°24375 3°24375 0 3°20375 0 4°30075 0 4°30075 0 4°30075 0 4°30075 0 4°30075 0 3°30352 0 3°30352 0	min. Earth dist.	5380 Aug 10 09:27	24° Ω 12′01	0.55362 AU	evening set	5381 Jul 13 06:57	7° Ω 38'47	
minimum elong 538 OAug 11 1420 23°2032 4°4740 minimum elong 538 I Jul 22 0636 3°20352 3°24375 3°24375 0 3°20375 0 4°30075 0 4°30075 0 4°30075 0 4°30075 0 4°30075 0 3°30352 0 3°30352 0	inferior conj	5380 Aug 11 21:21	23° Ω 20′25	-4°48'53	inferior conj	5381 Jul 22 15:15	3° Ω 39'48	-3°27'10
moming rise 538 0Aug 20 0924 19°A0952 min. Earth dist. 538 1 Jul 21 919-99 3°A0352 0°A0000 direct 5380 Aug 23 0Aug 23 0488 19°A00000 19°A00000 100000 5381 Jul 31 0700 29°C34730 0°A00000 29°C34730 0°A00000 29°C34730 0°A000000 0°A00000 0°A000000 0°A000000 0°A0000000 0°A00000000 0°A0000000000 0°A000000000000 0°A000000000000000000000 0°A00000000000000000000000000000000000	minimum elong	5380 Aug 11 14:20	23°Ω30'32	4°47'40	minimum elong	5381 Jul 22 06:36		
dreen 538 Name 23 90 48 9°40873 moming makel 538 Name 30°805 10°90 20°401727 20°40172 moming rise 538 Name 20°9054330 10°90 ace. node 538 Name 20°905430 20°905430 ace. node 538 Name 538 Name 20°21701 25°804375 20°1071 20°107 20°1071 20°1071 <		-			_			
morning max el 5380 Sep 08 12.00 24°Q1/727 20°4611 morning rise 5381 Julg 03 19.08 29°925/30 asc. node 3380 Sep 13 08.19 12°10 10°10 see morning set 5380 Sep 22 17.15 25°80 9375 see morning set 5381 Julg 16 09.11 5°Q1615 22°2121 superior conj 5380 Sep 20 02.26 0°B 1°P3 1°P3 1°P3 2°P3 2°P3 2°P2121	=	-			Time Darwi Gibt.			0.5 1705 110
Sas Nose 08 12.00 0° 10°		•		20046121	morning rise			
asc. node 5380 Sep 12 08.19 7°P150° sec. node 5381 Aug 08 01.04 0°Ω 22°21211 22°2121 22°2121 22°2121 22°2121 520 Sep 28 02:26 0°Ω sec. node 5381 Aug 16 09.11 5°210152 22°2121 22°2121 22°2121 22°2121 22°2121 22°212	morning max er	•		20 40 31	•			
morning set 5380 Sep 2, 17:15 25° mpo3's		•			direct			
S380 Sep 25 0.226		-				-		
Salisary	morning set	•	•		Č	•		22°21'21
superior conj 5380 Sep 3 0 4:11 10°A 3102 1 42°S8 minimum cloud 5381 Sep 1 0 0:36 9°B 53'32 'S minimum cloud 5380 Sep 3 0 0:40 10°A 3132 1*42'S9 superior conj 5381 Sep 14 06:34 25°B 02'46 141'S1 evening rise 5380 Oct 10 04:18 0°EL sminimum cloud 5381 Sep 14 05:34 25°B 02'46 141'S1 desc. node 5380 Oct 10 14:18 0°EL max. Earth dist. 5381 Sep 14 05:34 24°B 58'22 14'1'S0 evening max el 5380 Nor 13 14:18 16°EL 1202 max. Earth dist. 5381 Sep 14 05:34 24°B 58'3 134266 AU evening max el 5380 Nor 13 14:18 19°R 36'12 26°16'41 evening rise 5381 Oct 02 13:20 0°EL 19'S 36'12 26°16'41 6ec. node 5381 Oct 02 13:20 0°EL 19'S 36'12 26°16'41 6ec. node 5381 Oct 02 13:20 0°EL 19'S 36'12 26°16'41 6ec. node 5381 Oct 02 10:00 0°EL 19'S 36'12 10°EL 19'S 36'12 26°16'41 evening rise 5381 Oct 02 10:00 0°EL 19'S 36'12 10°EL 19'S 36'12 10°EL 19'S 36'12 10°EL 19'S 36'12 10°EL 19'S 36'12		5380 Sep 25 02:26	0° <u>Ω</u>		asc. node	5381 Aug 31 05:24		
minimum elong 538 0 Sr 30 04:40 10°A332 14259 max. Earth dist. 5380 0 ct 05 00:04 20°A1136 1.35885 AU minimum elong 5381 Sep 14 06:34 25°B0246 14151 evening rise 5380 0 ct 10 04:18 0°IL minimum elong 5381 Sep 14 06:34 24°B822 14150 desc. node 5380 0 ct 10 04:18 0°IL max. Earth dist. 5381 Sep 17 16:03 2°A0834 134266 AU evening max el 5380 Nov 13 14:15 19°A3612 26°1641 5381 Oct 02 13:20 0°IL 1402145 evening max el 5380 Nov 26 17:49 26°A4675 desc. node 5381 Oct 02 13:20 0°IL 1402145 14						5381 Sep 02 06:28	0° m)	
max. Earth dist. 5380 Oct 05 00:04 20°Δ113 1.35885 AU superior conj 5381 Sep 14 06:34 25° m0246 14151 evening rise 5380 Oct 10 04:18 0°R s81 Sep 16 15:12 0°Δ 14150 desc. node 5380 Oct 10 13:33 16°R.1202 max. Earth dist. 5381 Sep 16 15:12 0°Δ 1.3266 AU evening max el 5380 Nov 26 07:49 19°39'615 2°616'41 5381 Sep 22 06:20 11°40'19'5 1"Δ2114 Sep 20 retrograde 5380 Nov 26 07:49 26°34'657 desc. node 5381 Oct 20 00 10:20 0°R. 1"Δ2114 Sep 20 0°R. 1"Δ2114 Sep 20 0°R. 1"Δ2114 Sep 20 0°R. 1"Δ214 Sep 20 0°R. 0°R. 0°R. 1"Δ214 Sep 20 0°R.	superior conj	5380 Sep 30 04:11	10° ≏ 31'02	1°42'58	morning set	5381 Sep 07 03:36	9° ™ 53'32	
evening rise	minimum elong	5380 Sep 30 04:40	10° ≏ 33'32	1°42'59				
Continue 19.380 10 10 10 11 13.98 16 11 12.98 13.98 16 15.12 12 12.98 13.98 13.390	max. Earth dist.	5380 Oct 05 00:04	20° £ 11'36	1.35885 AU	superior conj	5381 Sep 14 06:34	25° Mg 02'46	1°41'51
desc. node	evening rise	5380 Oct 09 00:25	27° ♀ 51'13		minimum elong	5381 Sep 14 05:44	24° m 58'22	1°41'50
desc. node	C	5380 Oct 10 04:18	0°M		C	*	0∘ <u>⊽</u>	
evening max el 5380 Oct 28 14:48 0°\$\frac{2}{\text{P}}\$ cevening max el 5380 Nov 13 14:15 19\(^{\text{P}}\)3612 26°16'41 cevening max el 5380 Oct 28 14:48 10°\$\text{P}\$ 26°\$\text{P}\$36'12 26°16'41 cevening max el 5381 Oct 21 3:20 0°\$\text{P}\$ cevening sex 15380 Dec 02 15:19 24°\$\text{P}\$412'31 cevening max el 5381 Oct 24 0:009 0°\$\text{P}\$ 270'40'70 inferior conj 5380 Dec 08 19:50 19\(^{\text{P}}\)36'85'5 06'561 AU evening max el 5381 Oct 24 0:009 09.45 10°\$\text{P}\$212'31 cere retrograde 5381 Nov 20 09.945 10°\$\text{P}\$28'35 08'38'34 evening sex 15381 Nov 16 0:44 07\(^{\text{P}}\)26'85'35 08'38'34 evening sex 15381 Nov 20 0:58 09.46 10°\$\text{P}\$28'35 08'38'34 evening sex 15381 Nov 20 0:58 09.46 10°\$\text{P}\$40'54 06'52 12°\$\text{P}\$36'35 08'38'34 evening sex 15381 Nov 20 0:58 09.46 10°\$\text{P}\$40'54 06'52 12°\$\text{P}\$36'35 08'38'34 evening sex 15381 Nov 20 0:58 09.46 10°\$\text{P}\$40'54 06'52 12°\$\text{P}\$36'35 18'\text{P}\$40'34 10°\$\text{P}\$40'54 06'52 12°\$\text{P}\$380 Dec 10 0'7:32 15°\$\text{P}\$36'35 18'\text{P}\$40'34 10°\$\text{P}\$40'54 06'54 10°\$\text{P}\$40'54 06'54 10°\$\text{P}\$40'54 10°\$\te	desc. node		16°M₊12'02		max. Earth dist.	*	2° Ω 08'34	1.34266 AU
evening max el						*		
Petrograde S380 Nov 26 07:49 26°\$4657 desc. node S381 Oct 06 10:40 6°\$11950 evening set S380 Dec 02 15:19 24°\$12'31 s380 Dec 06 19:50 19°\$48'55 0.66561 AU evening max el S381 Oct 24 00:09 0°\$\$ inferior conj S380 Dec 08 19:45 17°\$48'55 0.63901 retrograde S381 Nov 10 09:45 10°\$428'53 minimum elong S380 Dec 10 07:32 15°\$36'33 evening set S381 Nov 20 02:58 4°\$40'05 0.65327 AU minimum elong S380 Dec 10 07:32 15°\$36'33 minimum elong S380 Dec 10 07:32 15°\$36'33 minimum elong S380 Dec 14 06:52 12°\$40'53 minimum elong S380 Dec 14 06:52 12°\$40'532 minimum elong S381 Nov 20 02:58 4°\$40'02 1-80'54 direct S380 Dec 14 06:52 12°\$40'522 18°40'34 minimum elong S381 Nov 22 07:39 12°\$40'22 1-80'54 direct S381 Jan 04 06:43 0°\$\$ moming max el S380 Jan 14 02:00 15°\$21'31 18°40'34 minimum elong S381 Nov 23 16:58 30°\$\$\$ moming set S381 Jan 14 02:00 15°\$21'37 moming rise S381 Dec 01 04:30 26°\$\$\$ S381 Jan 14 02:00 15°\$21'37 moming rise S381 Dec 01 04:30 26°\$\$\$ S381 Jan 29 9:18 0°\$\$ 10°\$\$\$ minimum elong S381 Jan 29 9:18 0°\$\$\$ 10°\$\$\$ minimum elong S381 Jan 29 9:83 10°\$\$\$ minimum elong S381 Jan 29 18:30 10°\$\$\$ minimum elong S381 Jan 29 18:30 10°\$\$\$\$ minimum elong S381 Jan 29 18:30 10°\$\$\$\$\$ minimum elong S381 Jan 29 18:30 10°\$\$\$\$\$\$\$ minimum elong S381 Jan 29 18:30 10°\$\$\$\$\$\$\$\$\$ minimum elong S381 Jan 29 18:30 10°\$	avaning may al			26°16'41	evening rise	•		
evening set 5380 Dec 02 15:19 24°X1231 evening max el 5381 Oct 24 00:09 0°X 10°X 20°X	•			20 1041	daga mada			
min. Earth dist. 5380 Dec 06 19:50 19° ₹48°55 0.66561 AU evening max el 5381 Dec 27 03:01 3° ₹11'15 27°04'07 inferior conj 5380 Dec 08 09:45 17° ₹52'50 -0°39'01 retrograde 5381 Nov 09 09:45 10° ₹28'53 -0° 40'32 10° ₹49'35 -0° 38'10' 10° ₹49'35 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹49'05 -0° ₹40	•				desc. node			
inferior conj 5380 Dec 08 09:45 17° x52'50 0°39'01 retrograde 5381 Nov 09 09:45 10° x28'53 minimum clong 5380 Dec 10 07:32 15° x36'33 evening set 5381 Nov 16 04:49 7° x49'05 0.65327 AU morning rise 5380 Dec 14 06:52 12° x36'32 min. Earth dist. 5381 Nov 20 02:58 4° x00'51 0.65327 AU direct 5380 Dec 17 08:21 11° x31'211 minimum clong 5381 Nov 22 07:39 1° x32'08 1° 39'41 morning max el 5380 Dec 24 00:59 14° x51'51 18° 40'34 minimum clong 5381 Nov 22 07:39 1° x32'08 1° 39'41 morning max el 5381 Jan 04 06:43 0° 5 asc. node 5381 Nov 23 16:58 30° kll. 1° 39'41 desc. node 5381 Jan 14 02:00 15° 521'37 morning rise 5381 Nov 23 16:58 30° kll. superior conj 5381 Jan 20 09:18 0° ∞ morning max el 5381 Nov 23 16:58 28° ll.50'02 superior conj 5381 Jan 29 18:30 10° ∞ 53'22 1° 31'34 morning set 5381 Dec 08 17:07 0° x <tr< td=""><td>•</td><td></td><td></td><td>0.66561.477</td><td></td><td></td><td></td><td>2500 405</td></tr<>	•			0.66561.477				2500 405
minimum elong 5380 Dec 08 10:48 17° \$4935 0°38'34 evening set 5381 Nov 16 04:49 7° \$4905 4° \$0051 0.6327 AU asc. node 5380 Dec 10 07:32 15° \$3633 min. Earth dist. 5381 Nov 20 02:58 4° \$0051 0.6327 AU morning rise 5380 Dec 14 06:52 12° \$0522 minimum elong 5381 Nov 22 04:44 1° \$4021 -1° 4054 direct 5380 Dec 17 08:21 11° \$1211 minimum elong 5381 Nov 22 04:44 1° \$4023 1° 39'41 morning max el 5380 Dec 24 00:59 14° \$75151 18° 40'34 5381 Nov 23 16:58 30° RIL morning set 5381 Jan 04 06:43 0° \$521'37 asc. node 5381 Nov 23 16:58 30° RIL desc. node 5381 Jan 15 12:54 17° \$39'16 morning max el 5381 Dec 01 04:30 25° ILc002 superior conj 5381 Jan 20 09:18 0° \$8'22 1° 31'34 morning set 5381 Dec 03 17:07 0° \$7 superior conj 5381 Feb 11 10:26 0° \$\tag{5} 10° \$8'32' 1° 30'37 5381 Dec 28 07:33 0° \$3'09'18 1° 20'30'37					•			2/°04'0/
Sase node Sase Dec 10 07:32 15°\$\text{3}6'33 min. Earth dist. Sast Nov 20 02:58 4°\$\text{0}0'51 0.65327 AU morning rise Sase Dec 14 06:52 12°\$\text{0}5'22 inferior conj Sast Nov 22 04:44 1°\$\text{0}4'021 -1°40'54 direct Sase Dec 17 08:21 11°\$\text{1}2'11 minimum elong Sast Nov 22 07:39 1°\$\text{3}2'08 1°39'41 morning max el Sase Dec 24 00:59 14°\$\text{3}5'15 18°40'34 sc. node Sast Nov 23 16:58 30°\$\text{0}\text{1}\$ morning set Sast Jan 04 06:43 0°\$\text{0}\$ sc. node Sast Nov 23 16:58 30°\$\text{0}\text{1}\$ morning set Sast Jan 14 02:00 15°\$\text{2}1'37 morning rise Sast Nov 28 11:31 26°\$\text{1}00'10'30 cert sast Jan 15 12:54 17°\$\text{3}9'16 direct Sast Dec 01 04:30 25°\$\text{1}00'20'30 direct sast Jan 23 09:18 0°\$\text{0}\$ morning max el Sast Dec 01 04:30 25°\$\text{0}0'20'30 direct sast Jan 23 09:18 0°\$\text{0}\$ morning max el Sast Dec 08 17:07 0°\$\text{0}\$ minimum elong Sast Jan 29 07:59 10°\$\text{5}3'26 -1°31'34 morning set Sast Dec 28 07:33 0°\$\text{0}\$ minimum elong Sast Jan 29 18:30 10°\$\text{0}\$0'36 1.45290 AU desc. node Sast Jan 09 13:23 19°\$\text{4}13 30°\$\text{0}\$ evening rise Sast Feb 11 10:26 0°\$\text{1} 17*\$\text{5}9'23 -0.9m minimum elong Sast Jan 10 9 13:23 19°\$\text{4}13 30°\$\text{0}\$ greatest brilliancy Sast Jan 20 0:21:53 0°\$\text{0}\$ max. Earth dist. Sast Jan 10 0:249 0°\$\text{0}\$ 0°\$\text{2} evening max el Sast Jan 10 0:28 11°\$\text{0}\$10:28 11°\$\text{0}\$10:28 11°\$\text{0}\$10:29 11°\$\text{0}\$11:41 10°\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\text{0}\$\te	·							
morning rise 5380 Dec 14 06:52 12° x705'22 inferior conj 5381 Nov 22 04:44 1° x40'21 -1°40'54	minimum elong	5380 Dec 08 10:48	17° ∡ °49'35	0°38'34	-	5381 Nov 16 04:49		
direct 5380 Dec 17 08:21 11° x12'11 minimum elong 5381 Nov 22 07:39 1° x32'08 1° 39'41 morning max el 5380 Dec 24 00:59 14° x51'51 18° 40'34 asc. node 5381 Nov 23 16:58 30° κ	asc. node	5380 Dec 10 07:32	15° ∡ ³36'33		min. Earth dist.	5381 Nov 20 02:58	4° ∡ 00'51	0.65327 AU
Morning max el 5380 Dec 24 00:59	morning rise	5380 Dec 14 06:52	12° ∡ 05′22		inferior conj	5381 Nov 22 04:44	1° ∡ ¹40'21	-1°40'54
S381 Jan 04 06:43 0° ♥ asc. node S381 Nov 27 04:37 26° € € € € 07 00° € € € € 07 00° € € € 07 00° € € € 07 00° € € € 07 00° € € € 07 00° € € 07 00° € € 07 00° € € 07 00° €	direct	5380 Dec 17 08:21	11° ∡ 12'11		minimum elong	5381 Nov 22 07:39	1° ∡ ³32′08	1°39'41
morning set 5381 Jan 14 02:00 15° ₹21'37 morning rise 5381 Nov 28 11:31 26° tL05'30 Leveling rise 5381 Jan 15 12:54 17° ₹39'16 direct 5381 Dec 01 04:30 25° fL26'02 Leveling rise 5381 Jan 23 09:18 0° ≈ morning max el 5381 Dec 07 15:54 28° tL53'39 18°07'06 18°07'06 18°07'06 5381 Dec 08 17:07 0° ₹ 18°07'06 18°07'06 18°07'06 18°07'06 3381 Dec 08 17:07 0° ₹ 18°07'06 18°0	morning max el	5380 Dec 24 00:59	14° ∡ ¹51'51	18°40'34		5381 Nov 23 16:58	30°₽ML	
direct 5381 Jan 15 12:54 17°♂39'16 morning max el 5381 Dec 01 04:30 25° IL26'02 morning max el 5381 Jan 23 09:18 0°≈ morning max el 5381 Dec 07 15:54 28° IL53'39 18°07'06 5381 Jan 29 18:30 07:59 10°≈53'26 -1°31'34 morning set 5381 Dec 25 23:15 26° № 18° 07'06 max. Earth dist. 5381 Jan 29 18:30 10°≈0136 1.45290 AU desc. node 5382 Jan 02 09:55 8° 517'05 2381 Feb 11 10:26 0° ₩ superior conj 5381 Feb 14 21:23 5° ₩ 31'09 superior conj 5382 Jan 09 13:23 19° 541'33 -0° 48'21 greatest brilliancy 5381 Feb 22 16:26 17° ₩ 59'23 -0.9m minimum elong 5382 Jan 09 07:26 19° 518'02 0° 47'32 28' 11° 10' 25' 381 Mar 08 06:49 7° 12'25 superior conj 5382 Jan 09 07:26 19° 518'02 0° 47'32 28' 11° 10' 26' 28' 11° 11° 10' 26' 28' 11° 11° 10' 26' 28' 11° 11° 10' 26' 28' 11° 11° 11° 11° 11° 11° 11° 11° 11° 11		5381 Jan 04 06:43	o°B		asc. node	5381 Nov 27 04:37	26°M50'47	
direct 5381 Jan 15 12:54 17°♂39'16 morning max el 5381 Dec 01 04:30 25° IL26'02 morning max el 5381 Jan 23 09:18 0°≈ morning max el 5381 Dec 07 15:54 28° IL53'39 18°07'06 5381 Jan 29 18:30 07:59 10°≈53'26 -1°31'34 morning set 5381 Dec 25 23:15 26° № 18° 07'06 max. Earth dist. 5381 Jan 29 18:30 10°≈0136 1.45290 AU desc. node 5382 Jan 02 09:55 8° 517'05 2381 Feb 11 10:26 0° ₩ superior conj 5381 Feb 14 21:23 5° ₩ 31'09 superior conj 5382 Jan 09 13:23 19° 541'33 -0° 48'21 greatest brilliancy 5381 Feb 22 16:26 17° ₩ 59'23 -0.9m minimum elong 5382 Jan 09 07:26 19° 518'02 0° 47'32 28' 11° 10' 25' 381 Mar 08 06:49 7° 12'25 superior conj 5382 Jan 09 07:26 19° 518'02 0° 47'32 28' 11° 10' 26' 28' 11° 11° 10' 26' 28' 11° 11° 10' 26' 28' 11° 11° 10' 26' 28' 11° 11° 11° 11° 11° 11° 11° 11° 11° 11	morning set	5381 Jan 14 02:00	15° る 21'37		morning rise	5381 Nov 28 11:31	26°ML05'30	
Sal Jan 23 Op:18 Op:28 Op:	•	5381 Jan 15 12:54			•		25°M-26'02	
superior conj 5381 Jan 30 07:59 10°≈53'26 -1°31'34 morning set 5381 Dec 28 17:07 0° ₹ superior conj 5381 Jan 29 22:32 10°≈16'22 1°30'37 5381 Dec 28 07:33 0° ₹ max. Earth dist. 5381 Jan 29 18:30 10°≈00'36 1.45290 AU desc. node 5382 Jan 02 09:55 8° ₹17'05 evening rise 5381 Feb 11 10:26 0° ₹ evening rise 5381 Feb 22 16:26 17° ₹59'23 -0.9m minimum elong 5382 Jan 09 13:23 19° ₹41'33 -0°48'21 greatest brilliancy 5381 Mar 02 12:53 0° Ŷ 12:55 588 18°48'47 evening rise 5382 Jan 12 14:14 24° ₹28'41 1.45220 AU asc. node 5381 Mar 15 01:28 11° Ŷ01'07 evening set 5382 Mar 12 14:14 0° ₹ evening set 5381 Mar 23 22:30 4° Ŷ18'30 3°30'33 evening max el 5382 Feb 19 15:36 20° ₹49'24 19°35'38 minimum elong 5382 Mar 23 22:30 4° Ŷ20'41 3°30'30 asc. node 5382 Feb 26 22:49 25° ₹01'41 ### 15 01:28 11° Ŷ1'10 10 10 10 10 10 10 10 10 10 10 10 10 1	desc. node							18°07'06
superior conj 5381 Jan 30 07:59 10°≈53'26 -1°31'34 morning set 5381 Dec 25 23:15 26°₹09'18 minimum elong 5381 Jan 29 22:32 10°≈16'22 1°30'37 5381 Dec 28 07:33 0°♂ max. Earth dist. 5381 Jan 29 18:30 10°≈00'36 1.45290 AU desc. node 5382 Jan 02 09:55 8°♂17'05 evening rise 5381 Feb 11 10:26 0° ★ superior conj 5382 Jan 09 13:23 19°♂41'33 -0°48'21 greatest brilliancy 5381 Feb 12 12:33 5°⅓31'09 superior conj 5382 Jan 09 13:23 19°♂18'02 0°47'32 asc. node 5381 Mar 02 12:53 0° ↑ 10° ↑		3301 Juli 23 07.10	0 ~~		morning max cr			10 07 00
minimum elong max. Earth dist. 5381 Jan 29 22:32 10°≈16'22 1°30'37 desc. node 5382 Jan 02 09:55 8°517'05 evening rise 5381 Feb 11 10:26 0° H superior conj 5382 Jan 09 13:23 19°541'33 -0°48'21 greatest brilliancy 5381 Feb 22 16:26 17° H 59'23 -0.9m minimum elong 5382 Jan 09 07:26 19°518'02 0°47'32 evening max el 5381 Mar 08 06:49 7° Υ12'25 max. Earth dist. 5382 Jan 12 14:14 24° 528'41 1.45220 AU asc. node 5381 Mar 18 08:05 9° Υ59'28 greatest brilliancy 5382 Feb 04 11:41 0° H evening set 5381 Mar 23 23:13 4° Υ18'30 3°30'33 evening max el 5382 Feb 19 15:36 20° H 49'24 19°35'38 minimum elong 5381 Mar 25 17:56 2° Υ06'23 0.65524 AU retrograde 5382 Feb 26 22:49 25° H 01'41	avnorior coni	5201 Ion 20 07:50	1090052126	1021124	mamina aat			
max. Earth dist. 5381 Jan 29 18:30 10°≈00'36 1.45290 AU desc. node 5382 Jan 02 09:55 8°♂17'05					morning set			
Systate Sy								
evening rise 5381 Feb 14 21:23 5°\(\frac{1}{1}\)31'09 superior conj 5382 Jan 09 13:23 19°\(\frac{1}{3}\)31'33 -0°48'21 greatest brilliancy 5381 Feb 22 16:26 17°\(\frac{1}{5}\)59'23 -0.9m minimum elong 5382 Jan 09 07:26 19°\(\frac{1}{3}\)18'02 0°47'32 asc. node 5381 Mar 08 06:49 7°\(\frac{1}{2}\)12'55 max. Earth dist. 5382 Jan 12 14:14 24°\(\frac{1}{3}\)28'41 1.45220 AU evening max el 5381 Mar 08 08:37 7°\(\frac{1}{6}\)16'85 18°48'47 evening rise 5382 Jan 16 02:49 0°\(\frac{1}{8}\)20'08 evening set 5381 Mar 15 01:28 11°\(\frac{1}{6}\)10'107 evening set 5382 Feb 04 11:41 0°\(\frac{1}{8}\)4 *\(\frac{1}{3}\)30'33 evening max el 5382 Feb 07 17:07 4°\(\frac{1}{3}\)30'35 20'\(\frac{1}{3}\)30'30 asc. node 5382 Feb 23 03:52 23°\(\frac{1}{3}\)46'31 19°35'38 minimum elong 5381 Mar 23 22:30 4°\(\frac{1}{2}\)20'\(\frac{1}{3}\)30'30 asc. node 5382 Feb 26 22:49 25°\(\frac{1}{3}\)14'1 14'1 14'' 15''\(\frac{1}{3}\)30'\(\frac{1}{3}\)	max. Earth dist.			1.45290 AU	desc. node	5382 Jan 02 09:55	8° 5 17/05	
greatest brilliancy							_	
S381 Mar 02 12:53 O°Υ max. Earth dist. S382 Jan 12 14:14 24°€28'41 1.45220 AU asc. node S381 Mar 08 06:49 7°Υ12'25 S382 Jan 16 02:49 O°≈ evening max el S381 Mar 08 08:37 7°Υ16'58 18°48'47 evening rise S382 Jan 25 20:08 15°≈07'13 retrograde S381 Mar 15 01:28 11°Υ01'07 S382 Feb 04 11:41 O°¥ evening set S381 Mar 18 08:05 9°Υ59'28 greatest brilliancy S382 Feb 07 17:07 4°¥53'03 -0.7m inferior conj S381 Mar 23 23:13 4°Υ18'30 3°30'33 evening max el S382 Feb 19 15:36 20°¥49'24 19°35'38 minimum elong S381 Mar 23 22:30 4°Υ20'41 3°30'30 asc. node S382 Feb 23 03:52 23°¥46'31 retrograde S382 Feb 19 15:36 20°¥01'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*401'41 4°*	evening rise	5381 Feb 14 21:23			superior conj	5382 Jan 09 13:23		
asc. node 5381 Mar 08 06:49 7°\(\gamma\)12'25 evening max el 5381 Mar 08 08:37 7°\(\gamma\)16'58 18°48'47 evening rise 5382 Jan 16 02:49 0°\(\infty\) retrograde 5381 Mar 15 01:28 11°\(\gamma\)01'07 5381 Mar 15 08:05 9°\(\gamma\)59'28 greatest brilliancy 5382 Feb 04 11:41 0°\(\omega\) evening set 5381 Mar 18 08:05 9°\(\gamma\)59'28 greatest brilliancy 5382 Feb 07 17:07 4°\(\omega\)53'03 -0.7m inferior conj 5381 Mar 23 23:13 4°\(\gamma\)18'03'03 evening max el 5382 Feb 19 15:36 20°\(\omega\)4'92'4 19°35'38 minimum elong 5381 Mar 23 22:30 4°\(\gamma\)20'41 3°30'30 asc. node 5382 Feb 26 22:49 25°\(\omega\)01'41	greatest brilliancy	5381 Feb 22 16:26		-0.9m	minimum elong	5382 Jan 09 07:26	19° る 18'02	0°47'32
evening max el 5381 Mar 08 08:37 7°\dagged 16'58 18°\dagged 48'\dagged 48'\da		5381 Mar 02 12:53	0° Y		max. Earth dist.	5382 Jan 12 14:14	24° る 28'41	1.45220 AU
retrograde 5381 Mar 15 01:28 11°Y01'07 5382 Feb 04 11:41 0°H evening set 5381 Mar 18 08:05 9°Y59'28 greatest brilliancy 5382 Feb 07 17:07 4°H53'03 -0.7m inferior conj 5381 Mar 23 23:13 4°Y18'30 3°30'33 evening max el 5382 Feb 19 15:36 20°H49'24 19°35'38 minimum elong 5381 Mar 23 22:30 4°Y20'41 3°30'30 asc. node 5382 Feb 23 03:52 23°H46'31 min. Earth dist. 5381 Mar 25 17:56 2°Y06'23 0.65524 AU retrograde 5382 Feb 26 22:49 25°H01'41	asc. node	5381 Mar 08 06:49	7° Y 12′25			5382 Jan 16 02:49	0° ≈	
retrograde 5381 Mar 15 01:28 11°Y01'07 5382 Feb 04 11:41 0°H evening set 5381 Mar 18 08:05 9°Y59'28 greatest brilliancy 5382 Feb 07 17:07 4°H53'03 -0.7m inferior conj 5381 Mar 23 23:13 4°Y18'30 3°30'33 evening max el 5382 Feb 19 15:36 20°H49'24 19°35'38 minimum elong 5381 Mar 23 22:30 4°Y20'41 3°30'30 asc. node 5382 Feb 23 03:52 23°H46'31 min. Earth dist. 5381 Mar 25 17:56 2°Y06'23 0.65524 AU retrograde 5382 Feb 26 22:49 25°H01'41	evening max el	5381 Mar 08 08:37	7° Y 16'58	18°48'47	evening rise	5382 Jan 25 20:08	15° ≈ 07'13	
evening set 5381 Mar 18 08:05 9°Y59'28 greatest brilliancy 5382 Feb 07 17:07 4°\text{\tinite\text{\texitex{\text{\texi{\text{\text{\text{\texi\texi{\text{\texi{\texi{\text{\texi{\texi{\text{\texi{\texi{\texi{\texi{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\t	•		11° Y '01'07		-		0°) €	
inferior conj 5381 Mar 23 23:13 4°\bar{V}18'30 3°30'33 evening max el 5382 Feb 19 15:36 20°\bar{K}49'24 19°35'38 minimum elong 5381 Mar 23 22:30 4°\bar{V}20'41 3°30'30 asc. node 5382 Feb 23 03:52 23°\bar{K}46'31 min. Earth dist. 5381 Mar 25 17:56 2°\bar{V}06'23 0.65524 AU retrograde 5382 Feb 26 22:49 25°\bar{K}01'41	•				greatest brilliancy			-0.7m
minimum elong 5381 Mar 23 22:30 4° Y 20'41 3°30'30 asc. node 5382 Feb 23 03:52 23° X 46'31 min. Earth dist. 5381 Mar 25 17:56 2° Y 06'23 0.65524 AU retrograde 5382 Feb 26 22:49 25° X 01'41	•			3°30'33	-			
min. Earth dist. 5381 Mar 25 17:56 2°\bar{V}06'23 0.65524 AU retrograde 5382 Feb 26 22:49 25°\bar{H}01'41					-			17 33 30
· · · · · · · · · · · · · · · · · · ·	•							
3381 Mar 2/ 13:33 30 Kπ evening set 5382 Mar 02 12:35 23 π 46 16	mm. Earth tist.			0.05524 AU	•			
		5301 Mar 2/ 13:33	ου Κπ		evening set	5362 IVIAT UZ 12:33	23 π 40 10	

inferior conj	5382 Mar 07 23:30	17° ¥ 50'00	3°17'10	inferior conj	5383 Feb 20 04:31	1°) 32'53	2°52'46
minimum elong	5382 Mar 07 23:36 5382 Mar 07 21:45	17° X 55'45	3°16'55	minimum elong	5383 Feb 20 04:31 5383 Feb 20 02:13	1° H 40'46	2°52'14
min. Earth dist.	5382 Mar 09 03:16	16° ₩ 18'25	0.66793 AU	min. Earth dist.	5383 Feb 20 18:46	0°) 44'03	0.67637 AU
morning rise	5382 Mar 13 06:21	11°) (34'57	0.00773710	mm. Latur dist.	5383 Feb 21 07:43	30°R≈	0.07037 110
direct	5382 Mar 19 08:57	8° ₩ 51'40		morning rise	5383 Feb 25 08:07	25°≈18'44	
desc. node	5382 Mar 31 09:10	15° ¥ 55'12		direct	5383 Mar 02 21:10	22°≈50'44	
morning max el	5382 Mar 31 15:43	16°) 11'41	25°39'25	morning max el	5383 Mar 14 00:25	29° ≈ 30'08	24°13'53
8	5382 Apr 12 01:53	0°Υ			5383 Mar 14 12:06	0° ∀	
	5382 May 01 11:57	0°8		desc. node	5383 Mar 18 06:10	4°) 10′10	
morning set	5382 May 06 20:22	9° 8 29'05			5383 Apr 05 21:47	0°Υ	
max. Earth dist.	5382 May 10 14:42		1.35903 AU	morning set	5383 Apr 18 18:50	21° Y 03'27	
	,			max. Earth dist.	5383 Apr 22 11:22	27° Y ′34'18	1.37950 AU
superior conj	5382 May 16 08:01	27° 8 41'13	-0°56'40		5383 Apr 23 19:35	0° ႘	
minimum elong	5382 May 16 11:11	27° 8 57'06	0°56'07		•		
	5382 May 17 11:35	$\Pi^{\circ}0$		superior conj	5383 Apr 29 12:52	10° 8 41'24	-1°25'33
asc. node	5382 May 22 03:10	9° Ⅱ 29'55		minimum elong	5383 Apr 29 17:31	11° 8 03'39	1°24'55
evening rise	5382 May 24 08:32	14° Ⅲ 03'07		evening rise	5383 May 08 08:27	27° 8 58'52	
	5382 Jun 01 16:06	0ංම		asc. node	5383 May 09 00:11	29° 8 16'25	
evening max el	5382 Jun 11 02:40	13° 5 00'08	20°02'27		5383 May 09 09:03	$\Pi^{\circ}0$	
retrograde	5382 Jun 21 12:47	18° 5 06'17		evening max el	5383 May 24 21:43	24° ∏ 50′02	19°04'07
evening set	5382 Jun 23 10:45	17°956'41		retrograde	5383 Jun 02 16:02	29° Ⅱ 07'25	
desc. node	5382 Jun 27 08:25	16°543'56		evening set	5383 Jun 04 16:17	28° ∏ 54'47	
inferior conj	5382 Jul 02 11:27	13° © 56'57	-1°32'01	inferior conj	5383 Jun 12 23:07	24° ∏ 41'44	0°22'19
minimum elong	5382 Jul 02 07:09	14° © 03'24	1°30'27	minimum elong	5383 Jun 13 00:01	24° Ⅱ 40′10	0°21'58
min. Earth dist.	5382 Jul 04 07:36	12°950'41	0.55168 AU	desc. node	5383 Jun 14 05:26	23° Ⅱ 49'16	
morning rise	5382 Jul 11 01:54	9° 5 37'59		min. Earth dist.	5383 Jun 15 22:50	22° Ⅲ 38′54	0.56449 AU
direct	5382 Jul 15 06:59	8°959'18		morning rise	5383 Jun 21 04:29	19° Ⅱ 47'03	
morning max el	5382 Jul 29 00:01	15° 5 43'29	24°05'24	direct	5383 Jun 26 07:51	18° Ⅱ 44'57	
	5382 Aug 09 08:37	$0^{\circ}\Omega$		morning max el	5383 Jul 10 13:58	26° Ⅱ 05'04	25°43'52
asc. node	5382 Aug 18 02:27	15° Ω 28'26			5383 Jul 14 07:02	0 \circ \mathfrak{S}	
morning set	5382 Aug 22 15:16	24° Ω 46′00			5383 Aug 02 10:06	$\mathfrak{O}_{\circ} \mathfrak{O}$	
	5382 Aug 25 01:53	0° m		asc. node	5383 Aug 04 23:28	5° Ω 08'51	
				morning set	5383 Aug 07 02:37	9° Ω 36′05	
superior conj	5382 Aug 29 14:13	9° m 48'43	1°34'35				
minimum elong	5382 Aug 29 12:27	9° m 39'09	1°34'25	superior conj	5383 Aug 14 00:53	24° Ω 41'40	1°21'58
max. Earth dist.	5382 Aug 31 16:28	14° m 19'39	1.33051 AU	minimum elong	5383 Aug 13 22:39	24° Ω 29'21	1°21'39
evening rise	5382 Sep 05 23:51	25° m 24'06		max. Earth dist.	5383 Aug 14 23:40	26° Ω 46′50	1.32275 AU
	5382 Sep 08 07:21	0∘ ⊽			5383 Aug 16 10:59	0° m	
desc. node	5382 Sep 23 07:42	26° ≏ 02'01		evening rise	5383 Aug 21 01:29	9° ₯ 49'05	
	5382 Sep 26 00:16	0° M .			5383 Aug 31 14:42	0∘ ত	
evening max el	5382 Oct 09 14:29	16°M26'22	27°26'29	desc. node	5383 Sep 10 04:44	15° ≏ 07'38	
retrograde	5382 Oct 23 05:39	23°M44'12		evening max el	5383 Sep 21 22:37	29° ≙ 08'45	27°17'59
evening set	5382 Oct 30 08:16	21°ML07'40			5383 Sep 22 20:51	0°M	
min. Earth dist.	5382 Nov 03 01:13	17°M52'26	0.63746 AU	retrograde	5383 Oct 05 18:39	6°M22′29	
inferior conj	5382 Nov 05 14:55	15°M14'47	-2°44'51	evening set	5383 Oct 12 22:02	4°M00'43	
minimum elong	5382 Nov 05 19:44	15°M02'27	2°43'03	min. Earth dist.	5383 Oct 16 13:10	1°M11'35	0.61874 AU
morning rise	5382 Nov 12 08:44	9°M55'39			5383 Oct 17 21:07	30° Ŗ Ω	
asc. node	5382 Nov 14 01:40	9°M28'54		inferior conj	5383 Oct 19 13:13	28° ≏ 28'04	
direct	5382 Nov 14 19:37	9° M ₊26'07		minimum elong	5383 Oct 19 19:26	28° ≏ 13'56	3°45'12
morning max el	5382 Nov 21 08:52	12°M50'55	17°50'51	morning rise	5383 Oct 26 18:43	23° ≏ 27'43	
	5382 Dec 03 03:59	0° ∡ ¹		direct	5383 Oct 29 02:22	23° ഫ 04'34	
morning set	5382 Dec 07 23:34	8° ≯ 15'58		asc. node	5383 Oct 31 22:42	23° ≏ 40'44	
desc. node	5382 Dec 20 06:55	29° ∡ 01'18		morning max el	5383 Nov 05 00:38	26° ≏ 34'56	17°52'40
					5383 Nov 07 23:50	0°M₊	
superior conj	5382 Dec 20 13:11	29° ∡ 26'58		morning set	5383 Nov 20 20:25	21°M21'04	
minimum elong	5382 Dec 20 12:58	29° ∡ ¹26′06	0°01'48		5383 Nov 25 15:44	0°⊀	
behind sun begin	5382 Dec 20 03:15	28° ∡ 46'16		_			
behind sun end	5382 Dec 20 22:42	0°る05'52		superior conj	5383 Dec 01 15:06	10° ₹ 28'18	0°38'45
	5382 Dec 20 21:16	0°る		minimum elong	5383 Dec 01 18:20	10° ₹ 42'10	0°38'18
max. Earth dist.	5382 Dec 26 08:23	8° 궁 48'32	1.44426 AU	desc. node	5383 Dec 07 03:57	19° √ 48'15	
evening rise	5383 Jan 05 06:57	24° ♂ 20'44		max. Earth dist.	5383 Dec 08 22:45	22° ∡ ′44′06	1.43009 AU
	5383 Jan 08 23:40	0° ≈			5383 Dec 13 11:00	0° ろ	
	5383 Jan 29 20:59	0° ∀		evening rise	5383 Dec 15 21:19	3° る 49'53	
evening max el	5383 Feb 02 17:21	4°) €23'33	20°37'02		5384 Jan 02 09:47	0° ≈	
asc. node	5383 Feb 10 00:55	9°) €07'54		evening max el	5384 Jan 16 13:44	17° ≈ 59'07	21°49'36
retrograde	5383 Feb 10 21:10	9° 米 11'43		retrograde	5384 Jan 25 18:30	23° ≈ 26′54	
evening set	5383 Feb 14 20:07	7°) 41'47		asc. node	5384 Jan 27 21:57	23° ≈ 02'29	

arranina aat	5384 Jan 30 03:54	2100041141		aca mada	5205 Iam 12 10:57	5°≈25'05	
evening set		21°≈41'41	2010112	asc. node	5385 Jan 13 18:57		
inferior conj	5384 Feb 04 12:01	15°≈23'12	2°19'12		5385 Jan 18 08:03	30°Rる	1007146
minimum elong	5384 Feb 04 09:38	15° ≈ 31'27	2°18'30	inferior conj	5385 Jan 18 20:06		1°37'46
min. Earth dist.	5384 Feb 04 14:01	15° ≈ 16′15	0.68073 AU	minimum elong	5385 Jan 18 18:06	29° る 25'22	1°37'03
morning rise	5384 Feb 09 15:12	9° ≈ 11'40		min. Earth dist.	5385 Jan 18 10:43	29° る 50'48	0.68118 AU
direct	5384 Feb 14 13:48	7° ≈ 04'25		morning rise	5385 Jan 24 01:25	23° る 11'12	
morning max el	5384 Feb 24 10:14	12°≈54'01	22°44'29	direct	5385 Jan 28 09:42	21° る 26'52	
desc. node	5384 Mar 04 03:11	23°≈12'39		morning max el	5385 Feb 06 00:58	26° る 27'19	21°20'01
	5384 Mar 09 02:52	0°) €		Ü	5385 Feb 09 06:43	0° ≈	
	5384 Mar 28 19:30	0°Υ		desc. node	5385 Feb 19 00:13	12° ≈ 49'38	
morning got	5384 Mar 29 15:22	1° Υ 21'37		desc. Hode	5385 Mar 02 15:32	0°) €	
morning set			1 40155 411				
max. Earth dist.	5384 Apr 03 06:55	9° Ƴ 09'44	1.40155 AU	morning set	5385 Mar 09 07:29	10° ∺ 20′22	
				max. Earth dist.	5385 Mar 16 08:27	21°) 40′30	1.42234 AU
superior conj	5384 Apr 11 01:47	22° Y 53'44			5385 Mar 21 08:08	0 ° Υ	
minimum elong	5384 Apr 11 06:47	23° Ƴ 16′29	1°49'45				
	5384 Apr 14 22:17	9° 8		superior conj	5385 Mar 23 17:51	4° Y 06'37	-2°06'10
evening rise	5384 Apr 20 22:54	11° 8 23'12		minimum elong	5385 Mar 23 20:45	4° Ƴ 19'10	2°06'03
asc. node	5384 Apr 24 21:13	18° 8 46'48		evening rise	5385 Apr 04 00:02	24° Ƴ 07'02	
	5384 May 01 09:27	0°П			5385 Apr 07 06:04	0°8	
evening max el	5384 May 07 02:14	7° Ⅱ 17'27	18°26'13	asc. node	5385 Apr 11 18:14	7° 8 54'51	
Č		11° I I00'22	16 20 13			_	10000111
retrograde	5384 May 14 14:08			evening max el	5385 Apr 20 12:32	20° 8 12'14	18-08-11
evening set	5384 May 16 21:12	10° ∏ 40′30		retrograde	5385 Apr 27 06:05	23° 8 37'27	
inferior conj	5384 May 24 08:06	6° Ⅱ 07'42	1°51'47	evening set	5385 Apr 29 20:02	23° 8 07'37	
minimum elong	5384 May 24 11:24	6° Ⅱ 01'00	1°50'46	inferior conj	5385 May 06 13:39	18° 8 13'58	2°50'24
min. Earth dist.	5384 May 27 18:16	3° Ⅲ 23'17	0.58360 AU	minimum elong	5385 May 06 16:45	18° 8 06'40	2°49'43
desc. node	5384 May 31 02:25	1° Ⅱ 07'15		min. Earth dist.	5385 May 09 20:15	15° 8 11'03	0.60550 AU
morning rise	5384 May 31 22:26	0°Д39′58		morning rise	5385 May 13 11:11	12° 8 22'26	
8	5384 Jun 02 09:33	30° ₹ 8		desc. node	5385 May 17 23:26	10° 8 27'28	
direct	5384 Jun 06 22:57	29° 8 05'36		direct	5385 May 20 01:54	10° 8 14'42	
direct	5384 Jun 11 14:54	0°II			5385 Jun 03 09:01	18° 8 10'00	27944150
			27000150	morning max el			27 44 39
morning max el	5384 Jun 21 08:13	6° Ⅱ 48'07	2/90058		5385 Jun 13 06:43	0° I I	
	5384 Jul 08 15:40	0 \circ \odot			5385 Jul 01 08:30	0 \circ \odot	
morning set	5384 Jul 21 12:04	24° © 19'02		morning set	5385 Jul 05 17:48	8° © 48'21	
asc. node	5384 Jul 21 20:29	25° © 03'26		asc. node	5385 Jul 08 17:30	15° © 06'17	
	5384 Jul 24 03:52	$\mathfrak{O}^{\circ}\mathfrak{O}$		max. Earth dist.	5385 Jul 11 21:18	21° © 57'39	1.31997 AU
					2202 241 11 21.10		
					2300 041 11 21110		
superior conj	5384 Jul 28 12:42	9° Ω 35'34	1°04'39	superior conj	5385 Jul 12 23:51	24°9523'37	0°43'11
				superior conj	5385 Jul 12 23:51		0°43'11
minimum elong	5384 Jul 28 10:27	9° £ 23′09	1°04'15	superior conj minimum elong	5385 Jul 12 23:51 5385 Jul 12 22:04	24° © 13'49	
minimum elong max. Earth dist.	5384 Jul 28 10:27 5384 Jul 28 10:33	9° £ 23'09 9° £ 23'42		minimum elong	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55	24°©13'49 0° Ω	0°43'11
minimum elong	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39	9° \Omega 23'09 9° \Omega 23'42 24° \Omega 28'51	1°04'15		5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05	24°€13'49 0°Ω 9°Ω15'08	0°43'11
minimum elong max. Earth dist.	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27	9° N 23'09 9° N 23'42 24° N 28'51 0° M	1°04'15	minimum elong evening rise	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29	24°\$13'49 0°\$ 9°\$\Omega\$15'08 0°\$\Omega\$	0°43'11
minimum elong max. Earth dist. evening rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39	9° £23'09 9° £23'42 24° £28'51 0° ₽\$ 0° £	1°04'15	minimum elong evening rise desc. node	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45	24°\$13'49 0°\$1 9°\$15'08 0°\$p 20°\$p\$23'45	0°43'11 0°42'49
minimum elong max. Earth dist. evening rise desc. node	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44	9° N 23'09 9° N 23'42 24° N 28'51 0° M	1°04'15	minimum elong evening rise desc. node evening max el	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12	24°©13'49 0°N 9°N15'08 0°M 20°M23'45 22°M15'29	0°43'11 0°42'49
minimum elong max. Earth dist. evening rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39	9° £23'09 9° £23'42 24° £28'51 0° ₽\$ 0° £	1°04'15	evening rise desc. node evening max el retrograde	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39	24°©13'49 0°N 9°N15'08 0°M 20°M23'45 22°M15'29 29°M19'17	0°43'11 0°42'49
minimum elong max. Earth dist. evening rise desc. node	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44	9°N23'09 9°N23'42 24°N28'51 0°M 0° <u>Ω</u> 3° <u>Ω</u> 22'02	1°04'15 1.31926 AU	minimum elong evening rise desc. node evening max el	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12	24°©13'49 0°N 9°N15'08 0°M 20°M23'45 22°M15'29	0°43'11 0°42'49
minimum elong max. Earth dist. evening rise desc. node evening max el	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49	9° N 23'09 9° N 23'42 24° N 28'51 0° M 0° Ω 3° Ω 22'02 11° Ω 07'11	1°04'15 1.31926 AU	evening rise desc. node evening max el retrograde	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39	24°©13'49 0° N 9° N15'08 0° M 20° M 23'45 22° M 15'29 29° M 19'17 28° M 00'09	0°43'11 0°42'49
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12	9° £23'42 24° £28'51 0° \$\bar{n}\$ 0° \$\bar{n}\$ 3° \$\bar{n}\$22'02 11° \$\bar{n}\$07'11 18° \$\bar{n}\$15'47 16° \$\bar{n}\$20'53	1°04'15 1.31926 AU	evening rise desc. node evening max el retrograde evening set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09	24°©13'49 0° N 9° N15'08 0° M 20° M 23'45 22° M 15'29 29° M 19'17 28° M 00'09	0°43'11 0°42'49 25°22'55 0.57800 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35	9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathref{m}\$ 0° \$\alpha\$ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53	1°04'15 1.31926 AU 26°35'49 0.59829 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31	24°©13'49 0° R 9° R 15'08 0° M 20° M 23'45 22° M 15'29 29° M 19'17 28° M 00'09 25° M 20'37 23° M 14'11	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14	9° \$\Omega_23'42\) 24° \$\Omega_28'51\) 0° \$\mathbf{m}\) 0° \$\Omega_3\$\circ \Omega_22'02\) 11° \$\Omega_07'11\) 18° \$\Omega_15'47\) 16° \$\Omega_20'53\) 13° \$\Omega_45'20\) 11° \$\Omega_11'25\)	1°04'15 1.31926 AU 26°35'49 0.59829 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14	24°©13'49 0° \(\oldsymbol{O}\) 9° \(\oldsymbol{O}\) 15'08 0° \(\oldsymbol{D}\) 20° \(\oldsymbol{D}\) 22° \(\oldsymbol{D}\) 25° \(\oldsymbol{D}\) 25° \(\oldsymbol{D}\) 23° \(\o	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35	24°©13'49 0° \(\oldsymbol{O}\) 9° \(\oldsymbol{O}\) 15'08 0° \(\oldsymbol{D}\) 20° \(\oldsymbol{D}\) 23' \(\oldsymbol{D}\) 25° \(\oldsymbol{D}\) 20'37 23° \(\oldsymbol{D}\) 14'11 23° \(\oldsymbol{D}\) 18° \(\oldsymbol{D}\) 58'48	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathreak{m}\$ 0° \$\Lambda\$ 3° \$\Lambda 22'02 11° \$\Lambda 07'11 18° \$\Lambda 15'47 16° \$\Lambda 20'53 13° \$\Lambda 45'20 11° \$\Lambda 11'25 10° \$\Lambda 59'31 6° \$\Lambda 32'48	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32	24°©13'49 0° \(\oldsymbol{O}\) 9° \(\oldsymbol{O}\) 15'08 0° \(\oldsymbol{D}\) 20° \(\oldsymbol{D}\) 23' \(\oldsymbol{D}\) 25° \(\oldsymbol{D}\) 25° \(\oldsymbol{D}\) 23° \(\oldsymbol{D}\) 14'11 23° \(\oldsymbol{D}\) 18° \(\oldsymbol{D}\) 58'48 18° \(\oldsymbol{D}\) 39'55	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathreak{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21	24° \$\infty 13'49 0° \$\mathcal{O}\$ 9° \$\mathcal{O}\$ 15'08 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$ 23'45 22° \$\mathcal{D}\$ 15'29 29° \$\mathcal{D}\$ 19'17 28° \$\mathcal{D}\$ 00'09 25° \$\mathcal{D}\$ 20'37 23° \$\mathcal{D}\$ 14'11 23° \$\mathcal{D}\$ 09'29 18° \$\mathcal{D}\$ 58'48 18° \$\mathcal{D}\$ 39'55 22° \$\mathcal{D}\$ 47'50	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45	24° \$\infty 13'49 0° \$\mathcal{O}\$ 9° \$\mathcal{O}\$ 15'08 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$ 23'45 22° \$\mathcal{D}\$ 15'29 29° \$\mathcal{D}\$ 19'17 28° \$\mathcal{D}\$ 00'09 25° \$\mathcal{D}\$ 20'37 23° \$\mathcal{D}\$ 14'11 23° \$\mathcal{D}\$ 09'29 18° \$\mathcal{D}\$ 58'48 18° \$\mathcal{D}\$ 39'55 22° \$\mathcal{D}\$ 47'50 26° \$\mathcal{D}\$ 10'42	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha\$ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 01:35 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 07 11:11	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{O} 20° \mathcal{O}23'45 22° \mathcal{O}15'29 29° \mathcal{O}19'17 28° \mathcal{O}00'09 25° \mathcal{O}20'37 23° \mathcal{O}14'11 23° \mathcal{O}09'29 18° \mathcal{O}55'48 18° \mathcal{O}39'55 22° \mathcal{O}47'50 26° \mathcal{O}10'42 0° \mathcal{O}	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 31 14:29	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathbf{m}\$.	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 07 11:11 5385 Oct 18 05:27	24° \$\infty 13'49 0° \$\mathcal{O}\$ 9° \$\mathcal{O}\$ 15'08 0° \$\mathcal{m}\$ 20° \$\mathcal{m}\$ 23'45 22° \$\mathcal{m}\$ 15'29 29° \$\mathcal{m}\$ 19'17 28° \$\mathcal{m}\$ 00'09 25° \$\mathcal{m}\$ 20'37 23° \$\mathcal{m}\$ 14'11 23° \$\mathcal{m}\$ 09'29 18° \$\mathcal{m}\$ 58'48 18° \$\mathcal{m}\$ 39'55 22° \$\mathcal{m}\$ 47'50 26° \$\mathcal{m}\$ 10'42 0° \$\mathcal{\O}\$ 19° \$\mathcal{\O}\$ 21'56	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha\$ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 01:35 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 07 11:11	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{O} 20° \mathcal{O}23'45 22° \mathcal{O}15'29 29° \mathcal{O}19'17 28° \mathcal{O}00'09 25° \mathcal{O}20'37 23° \mathcal{O}14'11 23° \mathcal{O}09'29 18° \mathcal{O}55'48 18° \mathcal{O}39'55 22° \mathcal{O}47'50 26° \mathcal{O}10'42 0° \mathcal{O}	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 31 14:29	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathbf{m}\$.	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 07 11:11 5385 Oct 18 05:27	24° \$\infty 13'49 0° \$\mathcal{O}\$ 9° \$\mathcal{O}\$ 15'08 0° \$\mathcal{m}\$ 20° \$\mathcal{m}\$ 23'45 22° \$\mathcal{m}\$ 15'29 29° \$\mathcal{m}\$ 19'17 28° \$\mathcal{m}\$ 00'09 25° \$\mathcal{m}\$ 20'37 23° \$\mathcal{m}\$ 14'11 23° \$\mathcal{m}\$ 09'29 18° \$\mathcal{m}\$ 58'48 18° \$\mathcal{m}\$ 39'55 22° \$\mathcal{m}\$ 47'50 26° \$\mathcal{m}\$ 10'42 0° \$\mathcal{\O}\$ 19° \$\mathcal{\O}\$ 21'56	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 31 14:29	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathbf{m}\$.	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 07 11:11 5385 Oct 18 05:27	24° \$\infty 13'49 0° \$\mathcal{O}\$ 9° \$\mathcal{O}\$ 15'08 0° \$\mathcal{m}\$ 20° \$\mathcal{m}\$ 23'45 22° \$\mathcal{m}\$ 15'29 29° \$\mathcal{m}\$ 19'17 28° \$\mathcal{m}\$ 00'09 25° \$\mathcal{m}\$ 20'37 23° \$\mathcal{m}\$ 14'11 23° \$\mathcal{m}\$ 09'29 18° \$\mathcal{m}\$ 58'48 18° \$\mathcal{m}\$ 39'55 22° \$\mathcal{m}\$ 47'50 26° \$\mathcal{m}\$ 10'42 0° \$\mathcal{\O}\$ 19° \$\mathcal{\O}\$ 21'56	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 03 07:53	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\mathred{\Omega}\$ 3° \$\mathred{\Omega}\$22'02 11° \$\mathred{\Omega}\$07'11 18° \$\mathred{\Omega}\$15'47 16° \$\mathred{\Omega}\$20'53 13° \$\mathred{\Omega}\$45'20 11° \$\mathred{\Omega}\$11'25 10° \$\mathred{\Omega}\$59'31 6° \$\mathred{\Omega}\$32'48 6° \$\mathred{\Omega}\$12'59 9° \$\mathred{\Omega}\$19'36 9° \$\mathred{\Omega}\$57'12 0° \$\mathred{\Omega}\$	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 23 15:06	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{D} 20° \mathcal{D}23'45 22° \mathcal{D}15'29 29° \mathcal{D}19'17 28° \mathcal{D}00'09 25° \mathcal{D}20'37 23° \mathcal{D}20'37 23° \mathcal{D}20'37 23° \mathcal{D}3'44'11 23° \mathcal{D}09'29 18° \mathcal{D}3'55 22° \mathcal{D}47'50 26° \mathcal{D}10'42 0° \mathcal{D} 19° \mathcal{D}21'56 0° \mathcal{D}.	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 03 07:53	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathred{m}\$ 5° \$\mathred{m} 07'30 22° \$\mathred{m} 40'39	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 15:24	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{D} 20° \mathcal{D}23'45 22° \mathcal{D}15'29 29° \mathcal{D}19'17 28° \mathcal{D}00'09 25° \mathcal{D}20'37 23° \mathcal{D}14'11 23° \mathcal{D}09'29 18° \mathcal{D}58'48 18° \mathcal{D}39'55 22° \mathcal{D}47'50 26° \mathcal{D}10'42 0° \mathcal{D} 19° \mathcal{D}21'56 0° \mathcal{D} 5° \mathcal{D}49'15	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 12 17:34 5384 Nov 12 17:34	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathred{m}\$ 5° \$\mathred{m} 07'30 22° \$\mathred{m} 40'39 22° \$\mathred{m} 40'39 22° \$\mathred{m} 58'10	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 15:24 5385 Oct 26 15:24 5385 Oct 26 15:24	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{D} 20° \mathcal{D}23'45 22° \mathcal{D}15'29 29° \mathcal{D}19'17 28° \mathcal{D}00'09 25° \mathcal{D}20'37 23° \mathcal{D}14'11 23° \mathcal{D}09'29 18° \mathcal{D}38'48 18° \mathcal{D}39'55 22° \mathcal{D}47'50 26° \mathcal{D}10'42 0° \mathcal{D} 19° \mathcal{D}21'56 0° \mathcal{D} 5° \mathcal{D}49'15 6° \mathcal{D}03'05	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 27 14:35 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 01 02:12 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathred{m}\$ 5° \$\mathred{m} 07'30 22° \$\mathred{m} 40'39 22° \$\mathred{m} 40'39 22° \$\mathred{m} 40'39 22° \$\mathred{m} 40'315	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 15:24 5385 Oct 26 18:18 5385 Nov 02 14:05 5385 Nov 06 10:51	24°©13'49 0° \mathcal{O} 9° \mathcal{O} 15'08 0° \mathcal{D} 20° \mathcal{D} 23'45 22° \mathcal{D} 15'29 29° \mathcal{D} 19'17 28° \mathcal{D} 00'09 25° \mathcal{D} 20'37 23° \mathcal{D} 14'11 23° \mathcal{D} 09'29 18° \mathcal{D} 58'48 18° \mathcal{D} 39'55 22° \mathcal{D} 47'50 26° \mathcal{D} 10'42 0° \mathcal{D} 19° \mathcal{D} 21'56 0° \mathcal{D} 5° \mathcal{D} 49'15 6° \mathcal{D} 03'05 18° \mathcal{D} 39'48 25° \mathcal{D} 25'38	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 00:08 5384 Nov 20 08:23 5384 Nov 23 01:00	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathbf{m}\$ 5° \$\mathbf{m} 07'30 22° \$\mathbf{m} 40'39 22° \$\mathbf{m} 58'10 0° \$\neq \frac{1}{8}' 03'15 10° \$\neq ^3 34'24	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 23 15:06 5385 Oct 26 18:18 5385 Nov 02 14:05 5385 Nov 09 03:46	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{O} 20° \mathcal{O}23'45 22° \mathcal{O}15'29 29° \mathcal{O}19'17 28° \mathcal{O}00'09 25° \mathcal{O}20'37 23° \mathcal{O}14'11 23° \mathcal{O}09'29 18° \mathcal{O}58'48 18° \mathcal{O}39'55 22° \mathcal{O}47'50 26° \mathcal{O}10'42 0° \mathcal{O} 19° \mathcal{O}21'56 0° \mathcal{O} 5° \mathcal{O}49'15 6° \mathcal{O}03'05 18° \mathcal{O}39'48 25° \mathcal{O}25'38 0° \mathcal{Z}	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 03 07:53 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 08:23 5384 Nov 20 08:23 5384 Nov 23 01:00 5384 Nov 25 04:48	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 59'31 6° \$\alpha 59'31 9° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathbf{m}\$ 5° \$\mathbf{m} 07'30 22° \$\mathbf{m} 40'39 22° \$\mathbf{m} 58'10 0° \$\neq \$\frac{1}{2}\$ 6° \$\neq 03'15 10° \$\neq 34'24 14° \$\neq 07'19	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 23 15:06 5385 Oct 26 18:18 5385 Nov 02 14:05 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Nov 09 22:03	24°©13'49 0° \mathcal{O} 9° \mathcal{O}15'08 0° \mathcal{O} 20° \mathcal{O}23'45 22° \mathcal{O}15'29 29° \mathcal{O}19'17 28° \mathcal{O}00'09 25° \mathcal{O}20'37 23° \mathcal{O}14'11 23° \mathcal{O}09'29 18° \mathcal{O}58'48 18° \mathcal{O}39'55 22° \mathcal{O}47'50 26° \mathcal{O}10'42 0° \mathcal{O} 19° \mathcal{O}21'56 0° \mathcal{O} . 5° \mathcal{O}49'15 6° \mathcal{O}03'05 18° \mathcal{O}39'48 25° \mathcal{O}25'38 0° \nackled{\sigma} 1° \nackled{\sigma}15'53	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02
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	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 12 17:34 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 21:26 5384 Nov 20 08:23 5384 Nov 20 08:23 5384 Nov 23 01:00 5384 Nov 25 04:48 5384 Dec 05 08:12	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathred{m}\$ 5° \$\mathred{m} 07'30 22° \$\mathred{m} 40'39 22° \$\mathred{m} 58'10 0° \$\nalpha \\ 6° \$\nalpha 03'15 10° \$\nalpha 34'24 14° \$\nalpha 07'19 0° \$\nalpha \\ 10° \$\nalpha \\ 10° \$\nalpha 07'19 0° \$\nalpha \\ 10° \$\nalpha 07'19 0° \$\nalpha \\ 10° \$\nalpha 07'19 0° \$\nalpha 07'19	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53	minimum elong evening rise desc. node 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	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 18:18 5385 Nov 02 14:05 5385 Nov 02 14:05 5385 Nov 09 03:46 5385 Nov 09 02:03 5385 Nov 29 00:38	24° \$\insigma 13'49 0° \$\mathcal{O}\$ 9° \$\mathcal{O}\$ 15'08 0° \$\mathcal{m}\$ 20° \$\mathcal{m}\$ 23'45 22° \$\mathcal{m}\$ 15'29 29° \$\mathcal{m}\$ 19'17 28° \$\mathcal{m}\$ 00'09 25° \$\mathcal{m}\$ 20'37 23° \$\mathcal{m}\$ 14'11 23° \$\mathcal{m}\$ 09'29 18° \$\mathcal{m}\$ 58'48 18° \$\mathcal{m}\$ 39'55 22° \$\mathcal{m}\$ 47'50 26° \$\mathcal{m}\$ 10'42 0° \$\mathcal{\O}\$ 19° \$\mathcal{\O}\$ 21'56 0° \$\mathcal{m}\$ 5° \$\mathcal{m}\$ 49'15 6° \$\mathcal{m}\$ 03'05 18° \$\mathcal{m}\$ 39'48 25° \$\mathcal{m}\$ 25'38 0° \$\mathcal{\Sigma}\$ 1° \$\mathcal{S}\$ 15'53 0° \$\mathcal{S}\$	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02 1°29'32 1°29'18 1.39036 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 superior conj minimum elong max. Earth dist. desc. node evening rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 12 17:34 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 21:26 5384 Nov 20 08:23 5384 Nov 20 08:23 5384 Nov 25 04:48 5384 Dec 05 08:12 5384 Dec 27 16:18	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathbf{m}\$ 0° \$\alpha \\ 3° \$\alpha 22'02 11° \$\alpha 07'11 18° \$\alpha 15'47 16° \$\alpha 20'53 13° \$\alpha 45'20 11° \$\alpha 11'25 10° \$\alpha 59'31 6° \$\alpha 32'48 6° \$\alpha 12'59 9° \$\alpha 19'36 9° \$\alpha 57'12 0° \$\mathbf{m}\$ 5° \$\mathbf{m} 07'30 22° \$\mathbf{m} 40'39 22° \$\mathbf{m} 40'39 22° \$\mathbf{m} 58'10 0° \$\star* 03'15 10° \$\star* 34'24 14° \$\star* 07'19 0° \$\star* 08'\$ 0° \$\infty\$	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53 1.41138 AU	minimum elong evening rise desc. node 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	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 15:24 5385 Oct 27 11:16 5385 Oct 28 15:06 5385 Nov 09 12:03 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Nov 09 02:03 5385 Nov 29 00:38 5385 Dec 11 19:05	24°©13'49 0° A 9° A15'08 0° m 20° m 23'45 22° m 15'29 29° m 19'17 28° m 00'09 25° m 20'37 23° m 14'11 23° m 09'29 18° m 58'48 18° m 39'55 22° m 47'50 26° m 10'42 0° Ω 19° Ω 21'56 0° m 5° m 49'15 6° m 03'05 18° m 39'48 25° m 25'38 0° ズ 1° ズ 15'53 0° 줍 15° 줍 19'12	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02 1°29'32 1°29'18 1.39036 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 superior conj minimum elong max. Earth dist. desc. node evening rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 03 07:53 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 21:26 5384 Nov 20 08:23 5384 Nov 23 01:00 5384 Nov 25 04:48 5384 Dec 27 16:18 5384 Dec 29 05:44	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 13° \$\textit{\alpha}\$ 22'53 13° \$\textit{\alpha}\$ 24'52 11° \$\textit{\alpha}\$ 21'25 10° \$\textit{\alpha}\$ 25'31 6° \$\textit{\alpha}\$ 21'48 6° \$\textit{\alpha}\$ 9° \$\textit{\alpha}\$ 21'59 9° \$\textit{\alpha}\$ 9° \$\textit{\alpha}\$ 21'59 9° \$\textit{\alpha}\$ 9° \$\textit{\alpha}\$ 21'59 0° \$\textit{\alpha}\$ 22° \$\mathred{\alpha}\$ 40'39 22° \$\mathred{\alpha}\$ 10° \$\textit{\alpha}\$ 10° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 10° \$\textit{\alpha}\$	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53	evening rise desc. node 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 morning set conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 15:24 5385 Oct 27 11:11 5385 Oct 28 15:06 5385 Nov 09 12:03 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Nov 09 03:8 5385 Dec 11 19:05 5385 Dec 23 04:27	24°©13'49 0°A 9°A15'08 0°M 20°M23'45 22°M15'29 29°M19'17 28°M00'09 25°M20'37 23°M14'11 23°M09'29 18°M58'48 18°M39'55 22°M47'50 26°M10'42 0°A 19°A21'56 0°M 5°M49'15 6°M03'05 18°M39'48 25°M25'38 0°A 1°A'15'53 0°B 15°B19'12 21°B58'53	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02 1°29'32 1°29'18 1.39036 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 superior conj minimum elong max. Earth dist. desc. node evening rise evening rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Nov 12 17:34 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 21:26 5384 Nov 12 21:26 5384 Nov 20 08:23 5384 Nov 20 08:23 5384 Nov 20 08:23 5384 Dec 27 16:18 5384 Dec 29 05:44 5385 Jan 08 13:16	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\textit{\textit{\textit{\textit{90}}}\$ 0° \$\textit{\textit{90}}\$ 11° \$\textit{\textit{90}}\$ 10° \$\textit{\textit{90}}\$ 9° \$\textit{\textit{90}}\$ 10° \$\textit{\$\textit{90}}\$ 22° \$\textit{\textit{M}}\$ 10° \$\textit{\$\textit{30}}\$ 22° \$\textit{\textit{M}}\$ 10° \$\textit{\$\textit{30}}\$ 22° \$\textit{\textit{M}}\$ 10° \$\textit{\$\textit{30}}\$ 10° \$\textit{30}\$ 10° \$\tex	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53 1.41138 AU	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node superior conj minimum elong morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 18:05 5385 Oct 27 5385 Oct 28 15:06 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Dec 23 04:27 5385 Dec 23 04:27 5385 Dec 28 15:01	24°©13'49 0°A 9°A15'08 0°M 20°M23'45 22°M15'29 29°M19'17 28°M00'09 25°M20'37 23°M14'11 23°M09'29 18°M58'48 18°M39'55 22°M47'50 26°M10'42 0°A 19°A21'56 0°M 5°M49'15 6°M03'05 18°M39'48 25°M25'38 0°A 1°A'15'53 0°B 15°B19'12 21°B58'53 19°B42'46	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02 1°29'32 1°29'18 1.39036 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 superior conj minimum elong max. Earth dist. desc. node evening rise	5384 Jul 28 10:27 5384 Jul 28 10:33 5384 Aug 04 08:39 5384 Aug 07 00:27 5384 Aug 24 12:39 5384 Aug 27 01:44 5384 Sep 03 00:49 5384 Sep 16 23:12 5384 Sep 23 17:36 5384 Sep 27 14:35 5384 Sep 30 20:14 5384 Oct 01 02:12 5384 Oct 08 12:54 5384 Oct 10 20:49 5384 Oct 17 19:43 5384 Oct 18 11:56 5384 Oct 18 11:56 5384 Oct 31 14:29 5384 Nov 03 07:53 5384 Nov 12 17:34 5384 Nov 12 21:26 5384 Nov 12 21:26 5384 Nov 20 08:23 5384 Nov 23 01:00 5384 Nov 25 04:48 5384 Dec 27 16:18 5384 Dec 29 05:44	9° \$\alpha 23'09 9° \$\alpha 23'42 24° \$\alpha 28'51 0° \$\mathred{m}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 13° \$\textit{\alpha}\$ 22'53 13° \$\textit{\alpha}\$ 24'52 11° \$\textit{\alpha}\$ 21'25 10° \$\textit{\alpha}\$ 25'31 6° \$\textit{\alpha}\$ 21'48 6° \$\textit{\alpha}\$ 9° \$\textit{\alpha}\$ 21'59 9° \$\textit{\alpha}\$ 9° \$\textit{\alpha}\$ 21'59 9° \$\textit{\alpha}\$ 9° \$\textit{\alpha}\$ 21'59 0° \$\textit{\alpha}\$ 22° \$\mathred{\alpha}\$ 40'39 22° \$\mathred{\alpha}\$ 10° \$\textit{\alpha}\$ 10° \$\textit{\alpha}\$ 0° \$\textit{\alpha}\$ 10° \$\textit{\alpha}\$	1°04'15 1.31926 AU 26°35'49 0.59829 AU -4°40'42 4°39'32 18°13'52 1°09'20 1°08'53 1.41138 AU	evening rise desc. node 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 morning set conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5385 Jul 12 23:51 5385 Jul 12 22:04 5385 Jul 15 12:55 5385 Jul 19 19:05 5385 Jul 30 10:29 5385 Aug 13 22:45 5385 Aug 15 19:12 5385 Aug 29 17:39 5385 Sep 04 14:09 5385 Sep 09 06:55 5385 Sep 12 08:31 5385 Sep 12 11:14 5385 Sep 12 11:14 5385 Sep 20 10:35 5385 Sep 22 22:32 5385 Oct 01 15:21 5385 Oct 04 16:45 5385 Oct 07 11:11 5385 Oct 18 05:27 5385 Oct 26 15:24 5385 Oct 27 11:11 5385 Oct 28 15:06 5385 Nov 09 12:03 5385 Nov 09 03:46 5385 Nov 09 03:46 5385 Nov 09 03:8 5385 Dec 11 19:05 5385 Dec 23 04:27	24°©13'49 0°A 9°A15'08 0°M 20°M23'45 22°M15'29 29°M19'17 28°M00'09 25°M20'37 23°M14'11 23°M09'29 18°M58'48 18°M39'55 22°M47'50 26°M10'42 0°A 19°A21'56 0°M 5°M49'15 6°M03'05 18°M39'48 25°M25'38 0°A 1°A'15'53 0°B 15°B19'12 21°B58'53	0°43'11 0°42'49 25°22'55 0.57800 AU -5°14'32 5°14'21 18°56'02 1°29'32 1°29'18 1.39036 AU

min. Earth dist.	5386 Jan 02 06:36	14° る 24'28	0.67789 AU	min. Earth dist.	5386 Dec 16 23:25	28° 7 52'15	0.67103 AU
inferior conj	5386 Jan 03 03:00	14 32428 13° る 16'16	0.07789 AU 0°49'21	inferior conj	5386 Dec 18 06:53	27° × 13'08	
•	5386 Jan 03 01:51	13° る 20'07	0°48'53	minimum elong	5386 Dec 18 00:35 5386 Dec 18 07:01	27° x 13'08 27° x 12'43	0°05'10
minimum elong	5386 Jan 08 12:47	7°る15'04	0 48 33	transit middle	5386 Dec 18 07:01	27° x 12'43	0°05'10
morning rise		7 813 04 5° 8 52'56					0 03 10
direct	5386 Jan 12 07:45	5° ろ 3236	20907122	transit begin	5386 Dec 18 04:21 5386 Dec 18 09:41	27° 🖈 21'13 27° 🖈 04'14	
morning max el	5386 Jan 19 23:22		20-06-33	transit end			
1 1	5386 Feb 03 23:01	0°≈		asc. node	5386 Dec 18 13:02	26° ₹ 53'33	
desc. node	5386 Feb 05 21:16	2°≈51'46		morning rise	5386 Dec 23 23:18	21° x ⁷ 20'01	
morning set	5386 Feb 16 05:06	18° ≈ 33'38		direct	5386 Dec 27 06:30	20° ₹ 17'26	10005104
	5386 Feb 23 13:00	0° ∺		morning max el	5387 Jan 03 05:35	24° ∡ *08'56	19°07'24
max. Earth dist.	5386 Feb 26 17:46	5°) €05'00	1.43908 AU		5387 Jan 08 04:25	0°る	
				greatest brilliancy	5387 Jan 17 04:36	13°る04'13	-0.8m
superior conj	5386 Mar 04 08:58	14° ★ 12'06		desc. node	5387 Jan 23 18:19	23° る 11'33	
minimum elong	5386 Mar 04 06:31	14°) €02'01	2°07'47	morning set	5387 Jan 26 07:46	27° る 10'08	
	5386 Mar 13 19:19	0° Υ			5387 Jan 28 03:28	0° ≈	
evening rise	5386 Mar 17 07:32	6° Y 01'46		max. Earth dist.	5387 Feb 09 08:51	19° ≈ 06′18	1.44982 AU
asc. node	5386 Mar 29 15:16	26° Ƴ 33'39					
	5386 Apr 01 02:13	$_{0\circ}$ 8		superior conj	5387 Feb 12 00:08	23° ≈ 16′02	-1°50'26
evening max el	5386 Apr 04 01:19	3° 8 26'04	18°09'26	minimum elong	5387 Feb 11 15:47	22° ≈ 43′00	1°49'48
retrograde	5386 Apr 10 11:31	6° 8 48'40			5387 Feb 16 05:45	0° ℋ	
evening set	5386 Apr 13 07:48	6° 8 07'21		evening rise	5387 Feb 26 17:10	16° ¥ 59'21	
inferior conj	5386 Apr 19 12:11	0° 8 54'04	3°21'51		5387 Mar 06 15:36	0 ° $\mathbf{\Upsilon}$	
minimum elong	5386 Apr 19 13:52	0° 8 49'35	3°21'39	asc. node	5387 Mar 16 12:19	14° Ƴ 33'29	
	5386 Apr 20 08:20	30° ₹Ƴ		evening max el	5387 Mar 18 13:39	16° Ƴ 51′02	18°29'18
min. Earth dist.	5386 Apr 22 07:01	27° Y 56'42	0.62704 AU	retrograde	5387 Mar 25 01:50	20° Ƴ 24'07	
morning rise	5386 Apr 25 18:34	24° Ƴ 48'28		evening set	5387 Mar 28 04:27	19° Ƴ 30'17	
direct	5386 May 02 14:45	22° Ƴ 14'25		inferior conj	5387 Apr 02 23:28	13° Y 59'03	3°32'08
desc. node	5386 May 04 20:28	22° Y 29'29		minimum elong	5387 Apr 02 23:33	13° Ƴ 58'48	3°32'08
	5386 May 16 09:36	0° ႘		min. Earth dist.	5387 Apr 05 03:15	11° Y 26'27	0.64602 AU
morning max el	5386 May 16 15:38	0° 8 15'01	27°51'06	morning rise	5387 Apr 08 17:56	7° Ƴ 46'39	
C	5386 Jun 07 07:55	$0^{\circ}\Pi$		direct	5387 Apr 15 11:46	4° Υ 58'34	
morning set	5386 Jun 19 17:46	22° Ⅱ 57'49		desc. node	5387 Apr 21 17:31	6° Y 56′05	
. 8	5386 Jun 23 03:39	0°95		morning max el	5387 Apr 29 01:15	12° Y 54'23	27°21'26
max. Earth dist.	5386 Jun 25 03:54	4°গু16'01	1.32499 AU		5387 May 12 18:25	0°8	
asc. node	5386 Jun 25 14:33	5° © 13'09			5387 May 30 21:43	0°II	
use. Houe	2500 van 25 11.55	5 215 07		morning set	5387 Jun 03 09:14	6° Ⅱ 39'05	
superior conj	5386 Jun 27 08:38	9° © 00'24	0°18'10	max. Earth dist.	5387 Jun 08 02:16	16° Ⅱ 06'45	1.33452 AU
minimum elong	5386 Jun 27 07:47	8°955'47	0°17'58	max. Bartii dist.	3307 Juli 00 02.10	10 200 13	1.55 152 710
evening rise	5386 Jul 04 06:52	24°901'48	0 17 50	superior conj	5387 Jun 11 13:03	23° Ⅱ 19'51	-0°09'44
evening rise	5386 Jul 07 03:22	0°Ω		minimum elong	5387 Jun 11 13:33	23° I I22'30	
	5386 Jul 25 16:45	0° m)		behind sun begin	5387 Jun 11 09:08	22° II 59'05	0 07 30
evening max el	5386 Jul 28 07:55	2° Mp 45'07	23040!55	behind sun end	5387 Jun 11 07:58	23° II 45'57	
desc. node	5386 Jul 31 19:45	5° Mp 44'41	23 49 33	asc. node	5387 Jun 11 17:38 5387 Jun 12 11:37	25° I 19'42	
retrograde	5386 Aug 11 00:34	9° m) 38'01		asc. nouc	5387 Jun 12 11:37 5387 Jun 14 16:03	0°9	
evening set	5386 Aug 15 10:53	8° Mp 54'46		evening rise	5387 Jun 14 10:05	8° 9 42'35	
min. Earth dist.	5386 Aug 21 18:06		0.56078 AU	evening rise	5387 Jun 29 22:14	0°Ω	
inferior conj	5386 Aug 24 00:32	4° Mp 30'30		avanina may al	5387 Jul		22°12'40
minimum elong	5386 Aug 24 00:32 5386 Aug 23 21:00	4° m) 35'54		evening max el desc. node	5387 Jul 19 22:17 5387 Jul 18 16:45	$18^{\circ} \Omega 51'03$	ZZ 1Z 4U
morning rise	5386 Sep 01 09:36	0° Mp 34'23	3 12 10	retrograde	5387 Jul 18 10:43 5387 Jul 22 19:34	19° Ω 30'28	
direct	5386 Sep 01 09.36 5386 Sep 04 04:31	0° Mp 14'41		evening set	5387 Jul 25 18:26	19° Ω 11'08	
			20°00'08	•			0.54000 AII
morning max el asc. node	5386 Sep 14 07:59 5386 Sep 21 13:48	4° Mp 58'01 13° Mp 59'15	20 00 08	min. Earth dist. inferior conj	5387 Aug 03 04:12 5387 Aug 03 23:47	$15^{\circ} 0.33^{\circ} 19$ $15^{\circ} 0.05^{\circ} 19$	0.54999 AU
asc. node	•				•		
	5386 Sep 30 11:05	3₀ ∵		minimum elong	5387 Aug 03 15:14	15° Ω 17'48	4 1800
morning set	5386 Oct 02 09:49	3° £ 55'15		morning rise	5387 Aug 12 13:45	11° Ω 15'51	
	5206 0 4 10 02 20	100 0 20120	1040125	direct	5387 Aug 15 18:20	10° £ 53′04	21925102
superior conj	5386 Oct 10 03:28	19° 2 39'30	1°40'25	morning max el	5387 Aug 27 12:27		21°25'03
minimum elong	5386 Oct 10 04:50	19° ≏ 46'22	1°40'22		5387 Sep 06 23:08	0° m)	
an at the	5386 Oct 15 10:38	0°M	1 26064 133	asc. node	5387 Sep 08 10:53	2° m/32'12	
max. Earth dist.	5386 Oct 15 19:31	0°M42'04	1.36964 AU	morning set	5387 Sep 16 18:36	18° m 41'04	
evening rise	5386 Oct 19 14:36	7°M43'08			5387 Sep 22 03:50	0∘ ಹ	
desc. node	5386 Oct 27 19:04	21°M48'30			520F G - 51 - 11	00 0 0000	10.46***
	5386 Nov 01 22:54	0° ∡ 7	2504000	superior conj	5387 Sep 24 01:37	3° £ 59'26	1°43'19
evening max el	5386 Nov 24 07:34	29° ∡ '02'37	25°40'44	minimum elong	5387 Sep 24 01:31	3° £ 58'51	1°43'19
	5386 Nov 25 07:40	0°る		max. Earth dist.	5387 Sep 28 06:23	12° 2 34'00	1.35143 AU
retrograde	5386 Dec 06 15:08	6° る 06'02		evening rise	5387 Oct 02 12:19	20° ≙ 50'58	
evening set	5386 Dec 12 15:08	3° る 36'58		_	5387 Oct 07 11:53	0° M ₅	
	5386 Dec 16 01:52	30°Ŗ ⋌ 7		desc. node	5387 Oct 14 16:05	12°M07'24	

evening max el	5387 Oct 26 20:38 5387 Nov 06 20:22	0° ҂ 12° ҂ 43'50	26°39'36	desc. node evening max el	5388 Sep 30 13:05 5388 Oct 19 08:59	2°M05'21 26°M12'38	27°17'11
retrograde	5387 Nov 19 20:36	19° × 59'26	20 37 30	evening max er	5388 Oct 23 21:11	0° ₹	2/ 1/11
evening set	5387 Nov 26 09:11	17° ₹ 21'54		retrograde	5388 Nov 01 19:58	3° ∡ ³30'41	
min. Earth dist.	5387 Nov 30 10:52	13° ∡ 13'16	0.66070 AU	evening set	5388 Nov 08 18:43	0° ∡ ′51′26	
inferior conj	5387 Dec 02 05:46	11° ∡ *05'56	-1°04'52	-	5388 Nov 09 19:52	30°RM	
minimum elong	5387 Dec 02 07:35	11° ₹ 00'32	1°04'05	min. Earth dist.	5388 Nov 12 14:34	27° M 17'24	0.64693 AU
asc. node	5387 Dec 05 10:05	7° ∡ ³34'47		inferior conj	5388 Nov 14 21:20	24°M48'48	-2°07'58
morning rise	5387 Dec 08 06:48	5° ≮ 23′23		minimum elong	5388 Nov 15 01:04	24°M38'39	2°06'27
direct	5387 Dec 11 04:17	4° ∡ ³36'37		morning rise	5388 Nov 21 08:39	19°M19'53	
morning max el	5387 Dec 17 18:00	8° ∡ 10′23	18°24'15	asc. node	5388 Nov 21 07:09	19°M21'34	
	5388 Jan 02 01:23	0°る		direct	5388 Nov 23 22:43	18°M45'03	
morning set	5388 Jan 06 11:48	7° る 06'14		morning max el	5388 Nov 30 10:03	22°M10'34	17°57'58
desc. node	5388 Jan 10 15:21	13° る 44'10		. ,	5388 Dec 06 12:48	0°×7	
	5388 Jan 20 22:13	0° ≈		morning set	5388 Dec 17 21:16	18° メ 29'45 0°る	
superior conj	5388 Jan 22 03:22	1° ≈ 54'23	1014'26	desc. node	5388 Dec 24 19:30 5388 Dec 27 12:22	0 3 4° る 24'58	
minimum elong	5388 Jan 21 18:43		1°13'24	desc. flode	5588 DCC 27 12.22	4 024 36	
max. Earth dist.	5388 Jan 23 03:21	3°≈28'25	1.45348 AU	superior conj	5388 Dec 31 14:41	11° る 01'26	-0°28'21
evening rise	5388 Feb 07 03:33	27°≈01'04	1.133 10 110	minimum elong	5388 Dec 31 11:16	10° る 47'45	
	5388 Feb 09 00:58	0° ∀		max. Earth dist.	5389 Jan 04 22:47	17° る 55'03	1.44970 AU
greatest brilliancy	5388 Feb 17 08:47	13°) €03'39	-0.8m		5389 Jan 12 16:18	0° ≈	
	5388 Feb 29 14:37	$0^{\circ}\mathbf{\Upsilon}$		evening rise	5389 Jan 16 19:29	6° ≈ 23'01	
evening max el	5388 Feb 29 23:11	0° Y 22'12	19°06'47	greatest brilliancy	5389 Jan 31 05:59	28° ≈ 15'47	-0.6m
asc. node	5388 Mar 02 09:21	1° Y 42'55			5389 Feb 01 10:29	0° ∀	
retrograde	5388 Mar 07 21:22	4° Υ 17'06		evening max el	5389 Feb 12 04:08	13°) €55'54	20°00'13
evening set	5388 Mar 11 06:59	3° Y 09′50		asc. node	5389 Feb 17 06:23	17°) 48'04	
	5388 Mar 14 16:38	30° ₹		retrograde	5389 Feb 19 19:16	18° ¥ 22'11	
inferior conj	5388 Mar 16 19:53	27° ∺ 22′20	3°26'19	evening set	5389 Feb 23 13:02	17°) €00'37	
minimum elong	5388 Mar 16 18:41	27°) (26'11	3°26'13	inferior conj	5389 Feb 28 22:26	10°) € 58'53	3°08'01
min. Earth dist.	5388 Mar 18 08:13	25° ¥ 26'33	0.66120 AU	minimum elong	5389 Feb 28 20:24	11°) (05'43 9°) (45'26	3°07'39
morning rise direct	5388 Mar 22 06:00 5388 Mar 28 15:29	21° 米 07'36 18° 米 18'59		min. Earth dist. morning rise	5389 Mar 01 20:18 5389 Mar 06 03:33	4°)(44'14	0.67206 AU
desc. node	5388 Apr 07 14:34	23°) 14'17		direct	5389 Mar 12 00:44	2° € 06'29	
morning max el	5388 Apr 10 11:11	25° H 56'07	26°22'42	morning max el	5389 Mar 23 20:08	9° H 10'07	25°04'11
morning max or	5388 Apr 14 04:53	0°Υ	20 22 12	desc. node	5389 Mar 25 11:36	10° ¥ 53'32	23 0.11
	5388 May 05 07:34	0°8			5389 Apr 09 06:04	0° Υ	
morning set	5388 May 16 12:40	19° 8 41'52			5389 Apr 27 21:56	0°8	
max. Earth dist.	5388 May 20 13:37	27° 8 26'56	1.34881 AU	morning set	5389 Apr 28 23:22	1° 8 53'04	
	5388 May 21 20:37	$\Pi^{\circ}0$		max. Earth dist.	5389 May 02 14:35	8° 8 30'19	1.36740 AU
superior conj	5388 May 25 10:46	7° Ⅱ 15'16		superior conj	5389 May 08 22:50	20° 8 38'51	
minimum elong	5388 May 25 12:56	7° Ⅲ 26′22	0°38'58	minimum elong	5389 May 09 02:42	20° 8 57'51	1°08'35
asc. node	5388 May 29 08:39	15° Ⅱ 21'57			5389 May 13 15:11	0°П	
evening rise	5388 Jun 02 02:47	23° Ⅱ 11'29		asc. node	5389 May 16 05:40	5° Ⅱ 15'53	
avanina may al	5388 Jun 05 11:12 5388 Jun 20 22:03	0°ତ 23° ତ 51'43	20°45'04	evening rise	5389 May 17 06:42	7° Ⅱ 22'05 0° ©	
evening max el retrograde	5388 Jul	23 \$31 43 29°\$27'46	20 43 04	evening max el	5389 May 29 23:26 5389 Jun 03 10:20	5°9317'47	19°35'08
evening set	5388 Jul 04 09:52	29° © 17'18		retrograde	5389 Jun 13 02:28	10°901'36	17 33 08
desc. node	5388 Jul 04 13:47	29°515'38		evening set	5389 Jun 15 00:37	9°951'12	
inferior conj	5388 Jul 13 16:51	25°\$20'25	-2°40'27	desc. node	5389 Jun 21 10:48	7° © 12'25	
minimum elong	5388 Jul 13 09:33	25° © 30'49	2°37'58	inferior conj	5389 Jun 23 18:25	5° © 46'51	-0°41'38
min. Earth dist.	5388 Jul 14 15:11	24°5948'33	0.54829 AU	minimum elong	5389 Jun 23 16:32	5° 5 49'50	0°40'56
morning rise	5388 Jul 22 08:51	21° © 17'37		min. Earth dist.	5389 Jun 26 04:12	4° © 15'46	0.55620 AU
direct	5388 Jul 26 03:37	20° 5 46'52		morning rise	5389 Jul 02 06:01	1° 5 13'44	
morning max el	5388 Aug 08 06:37	27° © 05'25	23°05'12	direct	5389 Jul 06 20:29	0° 5 26'27	
	5388 Aug 11 02:48	$0^{\circ}\Omega$		morning max el	5389 Jul 20 20:10	7° 5 26'41	24°48'52
asc. node	5388 Aug 25 07:55	21° Ω 37′59			5389 Aug 06 07:33	0 ° Ω	
	5388 Aug 29 12:57	0° m		asc. node	5389 Aug 12 04:57	11° Ω 08'08	
morning set	5388 Aug 31 05:42	3°₩32'40		morning set	5389 Aug 15 17:27	18° Ω 25'11	
	5200 C 07 06 22	100% 2011	1020/20		5389 Aug 21 01:42	0° m	
superior conj	5388 Sep 07 06:33	18°Mp38'11	1°39'28	gunarior cor:	5200 Aug 22 15:44	20 m, 20102	1920/50
minimum elong max. Earth dist.	5388 Sep 07 05:16 5388 Sep 10 02:03	18° mp 31'20 24° mp 36'19	1°39'23 1.33698 AU	superior conj minimum elong	5389 Aug 22 15:44 5389 Aug 22 13:42	3° Mp 28'03 3° Mp 17'01	1°29'50 1°29'36
max. Datui UISI.	5388 Sep 10 02:03 5388 Sep 12 16:36	24°الا 36°19 0° Ω	1.33070 AU	max. Earth dist.	5389 Aug 24 05:58	6° Mp 56'19	1.32677 AU
evening rise	5388 Sep 12 10.30 5388 Sep 14 23:39	0 <u>≈</u> 4° Ω 36'41		evening rise	5389 Aug 29 20:58	18° Mp 50'07	1.52011 AU
- vennig 1150	5388 Sep 29 05:12	4 = 30 41 0°M		5 t 5 1111 5 1 1 5 C	5389 Sep 04 13:25	0° ⊽	
	p 20 00.12	- 114				- —	

desc. node	5389 Sep 17 10:04	21° ≏ 33'29		desc. node	5390 Sep 04 07:06	10° ≏ 19'34	
desc. node	5389 Sep 17 10.04 5389 Sep 23 13:02	0°M		evening max el	5390 Sep 04 07:00 5390 Sep 14 01:14	10 ⊆ 1934 21° ⊆ 40'06	27002150
evening max el	5389 Sep 23 13.02 5389 Oct 01 19:29		27°26'49	retrograde	5390 Sep 14 01.14 5390 Sep 27 22:12	21 2 40 00 28° 2 51'42	27 03 38
retrograde	5389 Oct 01 19.29 5389 Oct 15 12:42	16°M31'11	27 20 49	evening set	5390 Sep 27 22.12 5390 Oct 04 23:25	26° £ 31'42 26° £ 39'35	
•				=			0.61021 ATT
evening set	5389 Oct 22 16:46	13°M59'36	0.62000 ATT	min. Earth dist.	5390 Oct 08 15:36	23° £ 58'30	0.61021 AU
min. Earth dist.	5389 Oct 26 08:28	10°M56'36	0.62990 AU	inferior conj	5390 Oct 11 19:03	21° Ω 16'46	
inferior conj	5389 Oct 29 02:51	8°M15'10		minimum elong	5390 Oct 12 01:27	21° Ω 03'02	4°09'44
minimum elong	5389 Oct 29 08:22	8°M01'42	3°09'51	morning rise	5390 Oct 19 05:29	16° Ω 25'42	
morning rise	5389 Nov 05 01:36	3°M03'28		direct	5390 Oct 21 12:52	16° ≙ 04'17	
direct	5389 Nov 07 10:52	2°M36'54		asc. node	5390 Oct 26 01:13	17° ≏ 30'00	
asc. node	5389 Nov 08 04:11	2°M39'24		morning max el	5390 Oct 28 17:10	19° Ω 39'04	17°59'17
morning max el	5389 Nov 14 02:49	6° ™ 02'44	17°49'18		5390 Nov 05 08:02	0° M	
	5389 Nov 29 16:37	0° ∡ ¹		morning set	5390 Nov 13 10:47	14°M28'16	
morning set	5389 Nov 30 07:04	1° ≯ 03'32			5390 Nov 21 23:21	0° ∡ 7	
superior conj	5389 Dec 12 01:13	21° ₹ 17'55	0°16'30	superior conj	5390 Nov 23 14:13	2° × 751'49	0°53'01
minimum elong	5389 Dec 12 01:13	21° 🖈 17'33 21° 🖈 24'46	0°16'16	minimum elong	5390 Nov 23 17:59	3°×708'25	0°52'32
desc. node		25° × 10'32	0 10 10	max. Earth dist.	5390 Nov 23 17:39 5390 Dec 01 04:34	15° √ 50'14	1.42253 AU
desc. node	5389 Dec 14 09:22						1.42253 AU
D d E c	5389 Dec 17 08:17	0°る	1 42006 411	desc. node	5390 Dec 01 06:23	15° ₹ 57'45	
max. Earth dist.	5389 Dec 18 16:02	2°る08'04	1.43896 AU	evening rise	5390 Dec 07 02:13	25° ₹ 24'58	
evening rise	5389 Dec 27 05:48	15° る 38'08			5390 Dec 10 00:06	0°る	
	5390 Jan 05 17:09	0° ≈			5390 Dec 30 14:51	0° ≈	
evening max el	5390 Jan 26 03:30		21°06'50	evening max el	5391 Jan 08 21:43	11° ≈ 06′29	22°22'42
	5390 Jan 28 20:51	0°) €		retrograde	5391 Jan 18 13:53	16° ≈ 51'39	
retrograde	5390 Feb 03 17:21	2°) (34′44		asc. node	5391 Jan 22 00:26	15° ≈ 49'38	
asc. node	5390 Feb 04 03:25	2°) €33'47		evening set	5391 Jan 23 04:14	14° ≈ 59'36	
evening set	5390 Feb 07 20:40	0° ¥ 58′07		inferior conj	5391 Jan 28 12:41	8° ≈ 37'48	2°02'33
	5390 Feb 08 22:57	30°R ≈		minimum elong	5391 Jan 28 10:25	8° ≈ 45'41	2°01'48
inferior conj	5390 Feb 13 04:43	24° ≈ 44'41	2°39'34	min. Earth dist.	5391 Jan 28 09:42	8° ≈ 48'12	0.68133 AU
minimum elong	5390 Feb 13 02:19	24° ≈ 52'56	2°38'57	morning rise	5391 Feb 02 16:29	2° ≈ 27'51	
min. Earth dist.	5390 Feb 13 13:32	24°≈14'12	0.67870 AU	direct	5391 Feb 07 08:47	0° ≈ 30'32	
morning rise	5390 Feb 18 07:49	18° ≈ 31'42		morning max el	5391 Feb 16 16:36	5°≈58'59	22°07'34
direct	5390 Feb 23 14:44	16° ≈ 12'18		desc. node	5391 Feb 27 05:38	18° ≈ 49'09	
morning max el	5390 Mar 06 04:58	22° ≈ 30'39	23°35'53		5391 Mar 07 02:46	0°) {	
desc. node	5390 Mar 12 08:37	29° ≈ 30'23		morning set	5391 Mar 21 19:43	22° X 39'55	
desc. node	5390 Mar 12 18:07	0° ∀		morning sec	5391 Mar 26 07:02	0°Υ	
	5390 Apr 02 14:12	0°Υ		max. Earth dist.	5391 Mar 27 07:46	1° Υ 43'24	1.41068 AU
morning set	5390 Apr 10 11:25	12°Υ56'14		max. Earth dist.	33)1 Wai 27 07.10	1 1 1321	1.11000710
max. Earth dist.	5390 Apr 10 11:23 5390 Apr 14 10:17	19° Υ 45'52	1.38883 AU	superior conj	5391 Apr 04 02:01	15° ℃ 07'42	1058121
max. Earm dist.	5390 Apr 14 10:17 5390 Apr 20 02:31	0° 8	1.36663 AU	minimum elong	5391 Apr 04 02:01 5391 Apr 04 06:32	15° Υ 27'43	1°58'03
	3390 Apr 20 02.31	00		minimum clong	5391 Apr 04 00:32 5391 Apr 12 05:46	0° 8	1 38 03
	5200 A 21 21-26	3° 8 19'43	1026145			4° 8 13'57	
superior conj	5390 Apr 21 21:26			evening rise	5391 Apr 14 12:18		
minimum elong	5390 Apr 22 02:26		1°36'09	asc. node	5391 Apr 19 23:42	14° 8 17'58	10016100
evening rise	5390 May 01 03:00	21° 8 05'39		evening max el	5391 Apr 30 17:05	0° Д 03'56	18°16'09
asc. node	5390 May 03 02:41	24° 8 56'14			5391 Apr 30 15:29	0° П	
	5390 May 05 18:50	Π $^{\circ}0$		retrograde	5391 May 07 19:57	3° Ⅱ 37'39	
evening max el	5390 May 17 09:44		18°45'29	evening set	5391 May 10 05:52	3° Ⅱ 13'57	
retrograde	5390 May 25 13:49	21° Ⅱ 25'17			5391 May 15 15:16	30° ₹ 8	
evening set	5390 May 27 16:43	21° Ⅱ 10'01		inferior conj	5391 May 17 08:59	28° 8 32'22	
inferior conj	5390 Jun 04 14:54	16° Ⅱ 48'33	1°03'59	minimum elong	5391 May 17 12:26	28° 8 24'54	
minimum elong	5390 Jun 04 17:13	16° Ⅱ 44'16	1°03'10	min. Earth dist.	5391 May 20 19:03	25° 8 36'45	0.59273 AU
min. Earth dist.	5390 Jun 07 20:51	14° Ⅱ 25'52	0.57203 AU	morning rise	5391 May 24 16:05	22° 8 52'49	
desc. node	5390 Jun 08 07:50	14° Ⅱ 06'48		desc. node	5391 May 26 04:51	22° 8 06'32	
morning rise	5390 Jun 12 14:23	11° Ⅲ 38'51		direct	5391 May 30 23:31	21° 8 03'47	
direct	5390 Jun 18 02:59	10° Ⅱ 24′08		morning max el	5391 Jun 14 08:47	28° 8 53'40	27°24'10
morning max el	5390 Jul 02 11:37	17° Ⅱ 54'50	26°20'09		5391 Jun 15 11:04	$\Pi^{\circ}0$	
	5390 Jul 12 12:55	0 \circ \odot			5391 Jul 06 08:33	0 \circ \odot	
	5390 Jul 29 15:19	$0^{\circ}\Omega$		morning set	5391 Jul 15 12:20	17° © 51'04	
asc. node	5390 Jul 30 01:58	0° Ω 55'16		asc. node	5391 Jul 16 22:59	20° © 53'56	
morning set	5390 Jul 31 04:13	3° Ω 13′04			5391 Jul 21 03:38	$0^{\circ}\Omega$	
Ü				max. Earth dist.	5391 Jul 22 02:27	2° Ω 05'44	1.31901 AU
superior conj	5390 Aug 07 03:06	18° Ω 22'03	1°15'09				
minimum elong	5390 Aug 07 00:48	18° Ω 09'22	1°14'48	superior conj	5391 Jul 22 14:52	3° Ω 14'17	0°56'01
max. Earth dist.	5390 Aug 07 15:16	19° Ω 29'13	1.32078 AU	minimum elong	5391 Jul 22 12:45	3° Ω 02'39	0°55'37
	5390 Aug 17 11:04	0° my		evening rise	5391 Jul 29 10:02	18° Ω 05'12	
evening rise	5390 Aug 12 11:04 5390 Aug 14 01:14	3° Mp 22'04			5391 Aug 04 06:36	0° my	
J. 0111115 1150	5390 Aug 14 01:14 5390 Aug 28 08:30	ე° <u>ი</u>		desc. node	5391 Aug 04 00:30 5391 Aug 22 04:07	28° Mp 06'17	
	5570 Hug 20 00.50	~ —		dose. Houc	5571 11ug 22 07.07	20 mg 00 1/	

	5391 Aug 23 19:42	0∘ ⊽			5392 Jul 27 10:24	0° m)	
evening max el	5391 Aug 26 23:59	ა — 3° ჲ 16'35	26°08'03	evening max el	5392 Aug 07 15:38	14° Mp 07'26	24°45'07
retrograde	5391 Sep 09 23:08	10° £ 24'13	20 00 03	desc. node	5392 Aug 08 01:09	14° m) 29'59	21 13 07
evening set	5391 Sep 16 09:46	8° £ 43'39		retrograde	5392 Aug 21 13:05	21° m) 07'55	
min. Earth dist.	5391 Sep 20 12:55	6° ₽ 08'42	0.58943 AU	evening set	5392 Aug 26 19:55	20° m 05'06	
inferior conj	5391 Sep 20 12:33 5391 Sep 23 18:27	3° £ 43′56		min. Earth dist.	5392 Sep 01 02:58	17° Mp 17'51	0.57007 AU
minimum elong	5391 Sep 23 18:27 5391 Sep 23 23:29	3° £ 34'30		inferior conj	5392 Sep 01 02:36 5392 Sep 03 22:15	15° m) 28'33	
minimum ciong	5391 Sep 29 14:17	30° ₹™	4 37 40	minimum elong	5392 Sep 03 22:33	15° m) 28'04	
morning rise	5391 Oct 01 15:27	29° m 15'31		morning rise	5392 Sep 12 03:31	11° m/21'55	3 1707
direct	5391 Oct 04 19:27 5391 Oct 04 00:27	28° m 56'30		direct	5392 Sep 12 03:51 5392 Sep 14 17:59	11° Mp 02'56	
direct	5391 Oct 04 00:27 5391 Oct 08 05:27	0∘ ರ		morning max el	5392 Sep 14 17:39 5392 Sep 24 00:49	15° m) 24'59	19°20'31
morning max el	5391 Oct 08 03:27 5391 Oct 12 01:37	0 == 2° £ 49'41	18°29'12	asc. node	5392 Sep 28 19:19	20° M 59'41	19 20 31
asc. node	5391 Oct 12 01:37 5391 Oct 12 22:16	2 = 4941 3° £ 41'41	10 29 12	asc. Houc	5392 Scp 28 19:19 5392 Oct 04 10:33	ე∘ ⊡	
	5391 Oct 12 22:10 5391 Oct 28 03:02	28° £ 27'54		morning got	5392 Oct 11 03:54	0 = 12° £ 52'03	
morning set	5391 Oct 28 03:02 5391 Oct 28 22:08	0°M		morning set	3392 Oct 11 03.34	12 = 32 03	
	3391 Oct 26 22.06	O IIG		superior conj	5392 Oct 19 06:07	28° ≏ 58'44	1°35'12
superior conj	5391 Nov 06 01:37	15°M30'21	1°19'07	minimum elong	5392 Oct 19 08:07 5392 Oct 19 08:24	28 ≅ 38 44 29° £ 09'49	1°35'03
	5391 Nov 06 01:37 5391 Nov 06 05:12	15°M46'56	1°18'45	minimum clong	5392 Oct 19 08:24 5392 Oct 19 18:43	29 = 0949 0° ™	1 33 03
minimum elong max. Earth dist.		28°M49'25	1.40251 AU	may Forth dist	5392 Oct 19 18:43 5392 Oct 25 16:37	11°M09'20	1.38142 AU
max. Earm dist.	5391 Nov 13 11:45	28 1164923 0° x 7	1.40231 AU	max. Earth dist.			1.38142 AU
	5391 Nov 14 04:06			evening rise	5392 Oct 29 10:52	17°M53'28	
evening rise	5391 Nov 17 19:06	6° ₹ 08'02		desc. node	5392 Nov 04 00:26	27°M21'11	
desc. node	5391 Nov 18 03:24	6° ∡ 742'31			5392 Nov 05 15:19	0° ∡ 7	
	5391 Dec 03 03:15	0°る			5392 Nov 26 11:35	0°る	
evening max el	5391 Dec 22 12:15	24° る 46'07	23°42'40	evening max el	5392 Dec 04 01:14	8° る 29'46	25°00'08
	5391 Dec 29 03:56	0° ≈		retrograde	5392 Dec 15 20:42	15° る 20'31	
retrograde	5392 Jan 02 07:23	1° ≈ 08'22		evening set	5392 Dec 21 12:55	12° る 58'52	
	5392 Jan 06 01:59	30°Rる		asc. node	5392 Dec 25 18:33	8° る 17'14	
evening set	5392 Jan 07 10:11	29° る 00'58		min. Earth dist.	5392 Dec 26 01:24	7° る 54'56	0.67545 AU
asc. node	5392 Jan 08 21:29	27° る 36'04		inferior conj	5392 Dec 27 02:23	6° る 32'58	0°26'53
inferior conj	5392 Jan 12 20:31	22° る 34'51	1°18'02	minimum elong	5392 Dec 27 01:43	6° る 35'08	0°26'37
minimum elong	5392 Jan 12 18:49	22° る 40'38	1°17'24	morning rise	5393 Jan 01 14:43	0° る 34'40	
min. Earth dist.	5392 Jan 12 06:27	23° る 22'50	0.68019 AU		5393 Jan 02 14:01	30°₹ ৴	
morning rise	5392 Jan 18 03:26	16° る 29'41		direct	5393 Jan 05 04:31	29° ₹ 21'05	
direct	5392 Jan 22 05:49	14° る 55'00			5393 Jan 07 21:52	0°ಕ	
morning max el	5392 Jan 30 10:22	19° る 37'30	20°47'04	morning max el	5393 Jan 12 12:04	3° る 27'30	19°39'22
	5392 Feb 07 23:41	0° ≈		greatest brilliancy	5393 Jan 25 12:33	20° る 35'48	-0.7m
desc. node	5392 Feb 14 02:41	8° ≈ 37'54		desc. node	5393 Jan 30 23:43	28° る 48'20	
	5392 Feb 28 07:09	0° ℋ			5393 Jan 31 18:34	0° ≈	
morning set	5392 Feb 29 01:41	1° 升 12′07		morning set	5393 Feb 06 22:09	9° ≈ 25'36	
max. Earth dist.	5392 Mar 08 11:55	14°) €35'28	1.43008 AU	max. Earth dist.	5393 Feb 18 23:57	28° ≈ 17'42	1.44454 AU
					5393 Feb 20 01:42	0° ∀	
superior conj	5392 Mar 15 07:47	25° 升 52′17	-2°08'58				
minimum elong	5392 Mar 15 08:47	25° 升 56′29	2°08'57	superior conj	5393 Feb 23 12:04	5°) €29'38	
	5392 Mar 17 18:12	0 ° $\mathbf{\Upsilon}$		minimum elong	5393 Feb 23 06:48	5°) €08'26	2°02'41
evening rise	5392 Mar 27 06:27	16° Ƴ 37'33		evening rise	5393 Mar 09 04:59	28°) €08'08	
	5392 Apr 03 21:35	$_{0\circ}$ 8			5393 Mar 10 07:28	0° Y	
asc. node	5392 Apr 05 20:44	3° 8 14'39		asc. node	5393 Mar 23 17:47	21° Y 38'13	
evening max el	5392 Apr 13 04:51	13° 8 07'59	18°06'28	evening max el	5393 Mar 27 17:49	26° Y 27'40	18°15'43
retrograde	5392 Apr 19 18:01	16° 8 30'09		retrograde	5393 Apr 03 03:37	29° Y 52'50	
evening set	5392 Apr 22 10:42	15° 8 55'39		evening set	5393 Apr 06 02:40	29° Ƴ 06'08	
inferior conj	5392 Apr 28 22:14	10° 8 53'48	3°06'40	inferior conj	5393 Apr 12 02:37	23° Y 45'04	3°28'26
minimum elong	5392 Apr 29 00:48	10° 8 47'24	3°06'13	minimum elong	5393 Apr 12 03:37	23° Y 42'18	3°28'22
min. Earth dist.	5392 May 02 00:40	7° 8 50'13	0.61486 AU	min. Earth dist.	5393 Apr 14 15:15	20° Y 56′28	0.63557 AU
morning rise	5392 May 05 12:59	4° 8 55'18		morning rise	5393 Apr 18 03:32	17° Ƴ 36′12	
direct	5392 May 12 07:16	2° 8 34'42		direct	5393 Apr 24 23:44	14° Ƴ 54'33	
desc. node	5392 May 12 01:54	2° 8 34'50		desc. node	5393 Apr 28 22:57	15° Ƴ 42'04	
morning max el	5392 May 26 12:07	10° 8 33'45	27°52'11	morning max el	5393 May 08 20:06	22° Y 53'45	27°42'34
-	5392 Jun 10 15:56	$\Pi^{\circ}0$		-	5393 May 15 03:00	0°8	
	5392 Jun 27 13:46	0ಂತ			5393 Jun 03 22:05	$\Pi^{\circ}0$	
morning set	5392 Jun 28 15:56	2° © 13'11		morning set	5393 Jun 12 12:35	16° Ⅱ 11′24	
asc. node	5392 Jul 02 20:02	10°959'23		max. Earth dist.	5393 Jun 17 15:16	26° Ⅱ 41'40	1.32847 AU
max. Earth dist.	5392 Jul 04 11:44	14°934'01	1.32149 AU		5393 Jun 19 04:37	0°95	
				asc. node	5393 Jun 19 17:03	1° 5 06'33	
superior conj	5392 Jul 06 01:17	17° © 58'56	0°33'00				
minimum elong	5392 Jul 05 23:50	17° © 51'02		superior conj	5393 Jun 20 08:26	2° © 29'07	0°06'40
3	5392 Jul 11 13:06	0°N		minimum elong	5393 Jun 20 08:07	2° © 27'23	0°06'34
	3392 Jul 11 13.00					2 -21 23	0 00 54
evening rise	5392 Jul 11 13:00 5392 Jul 12 21:18	2° Ω 52'56		behind sun begin	5393 Jun 20 03:14	2° 5 01'07	0 00 54

behind sun end	5393 Jun 20 13:00	2° © 53'40		superior conj	5394 Jun 04 10:17	16° Ⅱ 39'09	-0°22'09
evening rise	5393 Jun 27 09:04	17° © 37'58		minimum elong	5394 Jun 04 11:28	16° Ⅱ 45'20	0°21'56
	5393 Jul 03 11:14	$0 ^{\circ} \Omega$		asc. node	5394 Jun 06 14:06	21° Ⅱ 11'54	
evening max el	5393 Jul 20 04:06	24° Ω 29'38	23°08'13		5394 Jun 10 17:49	0 \circ 60	
desc. node	5393 Jul 25 22:11	28° Ω 58'15		evening rise	5394 Jun 11 19:28	2°9514'45	
	5393 Jul 27 23:18	0° m		•	5394 Jun 27 13:15	$0^{\circ}\Omega$	
retrograde	5393 Aug 02 14:10	1°m) 12'07		evening max el	5394 Jul 01 21:30	4° Ω 56'52	21°33'28
evening set	5393 Aug 06 08:46	0° mp 40'59		desc. node	5394 Jul 12 19:11	10° Ω 57'43	21 33 20
e venning see	5393 Aug 08 10:05	30°R Ω		retrograde	5394 Jul 14 05:07	11° Ω 02'27	
min. Earth dist.	-		0.55525 AU	-	5394 Jul 16 16:59	10°Ω48'15	
	5393 Aug 13 13:06			evening set			20.4212.0
inferior conj	5393 Aug 15 06:17	26° Ω 25'52		inferior conj	5394 Jul 26 01:02	6° Ω 47'54	
minimum elong	5393 Aug 15 00:04	26° Ω 34'57	4°55'54	minimum elong	5394 Jul 25 16:11	7° Ω 00'17	
morning rise	5393 Aug 23 17:38	22° Ω 34'27		min. Earth dist.	5394 Jul 25 22:58	6° Ω 50'48	0.54811 AU
direct	5393 Aug 26 16:37	22° Ω 13'36		morning rise	5394 Aug 03 16:29	2° Ω 55'30	
morning max el	5393 Sep 06 12:08	27° Ω 15′26	20°33'52	direct	5394 Aug 07 02:25	2° Ω 30′12	
	5393 Sep 09 03:27	O° Mp		morning max el	5394 Aug 19 11:39	8° Ω 20'11	22°06'27
asc. node	5393 Sep 15 16:22	9° ™ 08'32		asc. node	5394 Sep 02 13:23	27° Ω 56'11	
morning set	5393 Sep 25 10:26	27° Mp 31'45			5394 Sep 03 16:12	0° mp	
Ü	5393 Sep 26 15:13	0∘ ⊽		morning set	5394 Sep 09 20:23	12° m) 20'33	
	· · · · · · · · · · · · · · · · · · ·			<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	r	4	
superior conj	5393 Oct 02 22:55	13° ჲ 02'53	1°42'32	superior conj	5394 Sep 17 00:16	27° mp 31'40	1°42'27
minimum elong	5393 Oct 02 22:38 5393 Oct 02 23:38	13° ⊆ 06'32	1°42'31	minimum elong	5394 Sep 16 23:37	27° m 28'14	
_				minimum ciong		27 ili/2014 0° Ω	1 42 23
max. Earth dist.	5393 Oct 08 00:11	23° Ω 06'06	1.36156 AU	To all the	5394 Sep 18 04:32		1 244776 433
evening rise	5393 Oct 11 22:47	0°M33'45		max. Earth dist.	5394 Sep 20 14:41	5° Ω 00'41	1.34476 AU
	5393 Oct 11 15:30	0°M		evening rise	5394 Sep 25 02:43	13° ≏ 58'26	
desc. node	5393 Oct 21 21:27	17° M 48'54			5394 Oct 03 21:56	0°M₊	
	5393 Oct 29 18:49	0°⊀		desc. node	5394 Oct 08 18:28	7° ™ 59'51	
evening max el	5393 Nov 16 13:59	22° ҂ 13'54	26°07'54		5394 Oct 24 15:17	0° ∡ 7	
retrograde	5393 Nov 29 05:03	29° ⋌ ¹22'54		evening max el	5394 Oct 30 02:40	5° ≯ ′50'33	26°58'33
evening set	5393 Dec 05 10:41	26° ∡ ¹49'37		retrograde	5394 Nov 12 07:54	13° ∡ ¹08'12	
min. Earth dist.	5393 Dec 09 16:10	22° ∡ ¹20'54	0.66715 AU	evening set	5394 Nov 19 01:25	10° ∡ ¹28'37	
inferior conj	5393 Dec 11 04:24	20° ҂ ¹28'48	-0°30'00	min. Earth dist.	5394 Nov 23 00:24	6° ∡ ³35′16	0.65528 AU
minimum elong	5393 Dec 11 05:12	20° х 26′18	0°29'38	inferior conj	5394 Nov 25 00:27	4° ∡ 17'49	-1°31'21
asc. node	5393 Dec 12 15:36	18° × ⁷ 41'52		minimum elong	5394 Nov 25 03:04	4° √ 10'19	
morning rise	5393 Dec 12 19:30 5393 Dec 17 00:15	14° × 39'52		minimum ciong	5394 Nov 29 05:32	30°RM	1 30 13
direct	5393 Dec 17 00:15 5393 Dec 20 03:10	13° х 44'20		asc. node	5394 Nov 29 03:32 5394 Nov 29 12:39	29°M46'01	
	5393 Dec 26 03:10 5393 Dec 26 21:11		18°46'59				
morning max el		17° ₹ 26'35	18-40-59	morning rise	5394 Dec 01 05:42	28°M41'01	
	5394 Jan 05 11:17	0°る		direct	5394 Dec 03 23:45	27° M 59'50	
morning set	5394 Jan 17 10:10	18° 云 32'53			5394 Dec 08 19:55	0° ∡	
desc. node	5394 Jan 17 20:44	19° る 14'24		morning max el	5394 Dec 10 11:33	1° ≯ 28'44	18°11'00
	5394 Jan 24 17:22	0° ≈		morning set	5394 Dec 29 02:58	29° ₹ 07'27	
max. Earth dist.	5394 Feb 01 17:31	12° ≈ 32'47	1.45233 AU		5394 Dec 29 15:52	0°る	
				desc. node	5395 Jan 04 17:44	9° る 51'01	
superior conj	5394 Feb 02 19:57	14° ≈ 16'35	-1°37'05				
minimum elong	5394 Feb 02 10:33	13° ≈ 39'38	1°36'10	superior conj	5395 Jan 13 00:07	23° る 00'30	-0°55'23
	5394 Feb 12 18:29	0° ℋ		minimum elong	5395 Jan 12 17:20	22° る 33'45	0°54'30
evening rise	5394 Feb 18 04:39	8°) 41'49		max. Earth dist.	5395 Jan 15 12:53	26° る 59'29	1.45274 AU
greatest brilliancy	5394 Feb 24 20:10	19° ∺ 24'25	-0.9m		5395 Jan 17 10:57	0° ≈	
	5394 Mar 03 14:31	$0^{\circ}\Upsilon$		evening rise	5395 Jan 29 06:08	18° ≈ 23'49	
asc. node	5394 Mar 10 14:51	9° Υ 18'38			5395 Feb 05 17:35	0°) €	
evening max el	5394 Mar 11 05:14	9° Υ 56'15	18°43'10	greatest brilliancy	5395 Feb 10 11:54	7° ∺ 17'18	0.7m
-		13° Υ 37'15	16 43 10	-		23° X 28'17	
retrograde	5394 Mar 17 20:39			evening max el	5395 Feb 22 12:52		19 27 40
evening set	5394 Mar 21 02:11	12° Υ 37'38		asc. node	5395 Feb 25 11:53	26°) €02'32	
inferior conj	5394 Mar 26 18:13	6° Y 59'00	3°31'23	retrograde	5395 Mar 01 17:36	27°) ₹35'57	
minimum elong	5394 Mar 26 17:42	7° Ƴ 00'33	3°31'22	evening set	5395 Mar 05 06:29	26°) 22'43	
min. Earth dist.	5394 Mar 28 15:13	4° Ƴ 41'22	0.65298 AU	inferior conj	5395 Mar 10 17:34	20°) €28'38	3°19'55
morning rise	5394 Apr 01 08:43	0° Ƴ 45'17		minimum elong	5395 Mar 10 15:57	20°) 33′55	3°19'43
	5394 Apr 02 07:15	30° ₹ ₩		min. Earth dist.	5395 Mar 11 23:32	18° ¥ 50′36	0.66631 AU
direct	5394 Apr 07 23:30	27°) 55′48		morning rise	5395 Mar 16 01:09	14°) 13′28	
	5394 Apr 14 07:17	$0^{\circ}\mathbf{\Upsilon}$		direct	5395 Mar 22 05:34	11° ∺ 28′29	
desc. node	5394 Apr 15 19:58	1° Y 00'46		desc. node	5395 Apr 02 16:59	17°) 56'41	
morning max el	5394 Apr 21 06:14	5° Υ 44'52	26°59'35	morning max el	5395 Apr 03 16:01	18°) 53'42	25°51'08
	5394 May 09 19:37	0°8	/ -/	B. mun of	5395 Apr 03 10:01 5395 Apr 13 01:49	0°Υ	
morning set	5394 May 26 23:23	29° 8 37'40			5395 May 02 20:53	0°8	
morning set		29 O 37 40 0° I I		morning set		12° 8 20'16	
mov Family P	5394 May 27 04:02		1 24000 411	morning set	5395 May 09 20:19		1 25/25 411
max. Earth dist.	5394 May 31 09:27	δ°H20'38	1.34009 AU	max. Earth dist.	5395 May 13 16:09		1.35625 AU
					5395 May 18 23:56	Π °0	

superior conj	5395 May 19 04:13	0° Ⅱ 21'35	0°52'00	superior conj	5396 May 01 11:03	13° 8 28'10	1021123
minimum elong	5395 May 19 04:13 5395 May 19 07:08	0° П 36'16		minimum elong	5396 May 01 11:03	13° 8 49'43	
asc. node	5395 May 24 11:08	11° I I1'06	0 31 37	minimum ciong	5396 May 09 20:06	0° Ⅱ	1 2043
	•				•		
evening rise	5395 May 27 02:24	16° Ⅱ 36'30		evening rise	5396 May 10 03:24	0° П 36'14	
	5395 Jun 02 22:44	0.ee	20012152	asc. node	5396 May 10 08:09	0° П 59'48	10011122
evening max el	5395 Jun 14 02:24	15°958'01	20°12'52	evening max el	5396 May 26 19:50	27° ∏ 42'15	19°11'33
retrograde	5395 Jun 24 18:49	21°511'58			5396 May 29 14:11	0.20 0.20	
evening set	5395 Jun 26 17:15	21°502'24		retrograde	5396 Jun 04 19:27	2°505'54	
desc. node	5395 Jun 29 16:11	20°©13'55		evening set	5396 Jun 06 19:01	1°954'00	
inferior conj	5395 Jul 05 19:59	17° © 03'55			5396 Jun 11 14:15	30°Ŗ Ⅱ	
minimum elong	5395 Jul 05 14:50	17° © 11'32	1°48'21	inferior conj	5396 Jun 15 04:49	27° ∐ 43'35	0°06'13
min. Earth dist.	5395 Jul 07 10:52	16° © 06'26	0.55048 AU	minimum elong	5396 Jun 15 05:05	27° Ⅱ 43'09	0°06'07
morning rise	5395 Jul 14 11:03	12° © 49'30		transit middle	5396 Jun 15 05:05	27° ∏ 43'09	0°06'07
direct	5395 Jul 18 13:13	12° © 13'11		transit begin	5396 Jun 15 01:33	27° ∏ 49'05	
morning max el	5395 Aug 01 03:12	18° © 51'20	23°49'53	transit end	5396 Jun 15 08:36	27° ∐ 37'11	
	5395 Aug 10 09:16	0 \circ Ω		desc. node	5396 Jun 15 13:13	27° ∏ 29'24	
asc. node	5395 Aug 20 10:24	17° Ω 13'16		min. Earth dist.	5396 Jun 18 01:31	25° ∏ 48'34	0.56210 AU
morning set	5395 Aug 25 07:57	27° Ω 13'17		morning rise	5396 Jun 23 12:01	22° ∏ 54'33	
	5395 Aug 26 15:15	0° m		direct	5396 Jun 28 12:07	21° Ⅱ 56'32	
				morning max el	5396 Jul 12 16:49	29° Ⅱ 11'59	25°30'12
superior conj	5395 Sep 01 07:17	12° Mp 16'30	1°36'02		5396 Jul 13 12:25	0	
minimum elong	5395 Sep 01 05:38	12° m 07'35	1°35'55		5396 Aug 02 20:27	$0 {\circ} \Omega$	
max. Earth dist.	5395 Sep 03 13:49	17° m 09'25	1.33202 AU	asc. node	5396 Aug 06 07:25	6° Ω 51'21	
evening rise	5395 Sep 08 18:41	27° m 57'16		morning set	5396 Aug 08 19:27	12° Ω 04'18	
	5395 Sep 09 19:16	0∘ ত					
desc. node	5395 Sep 25 15:28	27° ≏ 46'44		superior conj	5396 Aug 15 17:38	27° Ω 09'02	1°24'11
	5395 Sep 27 02:53	0° M ₊		minimum elong	5396 Aug 15 15:26	26° Ω 56'58	1°23'54
evening max el	5395 Oct 12 14:29	19° M 09'57	27°25'03	max. Earth dist.	5396 Aug 16 20:16	29° Ω 35′10	1.32365 AU
retrograde	5395 Oct 26 04:51	26°ML28'17			5396 Aug 17 00:48	O° Mp	
evening set	5395 Nov 02 06:33	23°M50'43		evening rise	5396 Aug 22 19:17	12° m 19'49	
min. Earth dist.	5395 Nov 06 00:09	20°M30'44	0.63998 AU		5396 Aug 31 23:04	0∘ ⊽	
inferior conj	5395 Nov 08 12:06	17° M 55'03	-2°35'09	desc. node	5396 Sep 11 12:29	16° ≙ 58'51	
minimum elong	5395 Nov 08 16:39	17° M 43'14	2°33'26		5396 Sep 21 23:33	0° M	
morning rise	5395 Nov 15 04:13	12°MJ33'16		evening max el	5396 Sep 23 23:22	1°M58'31	27°21'22
asc. node	5395 Nov 16 09:39	12°ML10'27		retrograde	5396 Oct 07 18:48	9° ™ 12'35	
direct	5395 Nov 17 15:47	12°ML02'31		evening set	5396 Oct 14 22:36	6°M48′02	
morning max el	5395 Nov 24 04:23	15°M27'24	17°52'08	min. Earth dist.	5396 Oct 18 13:46	3°M55'31	0.62170 AU
	5395 Dec 04 11:11	0°⊀¹		inferior conj	5396 Oct 21 12:23	1°M12'12	-3°37'58
morning set	5395 Dec 10 23:41	11° ∡ 03'57		minimum elong	5396 Oct 21 18:27	0°M58'07	3°36'06
	5395 Dec 22 06:16	0°రె		-	5396 Oct 22 19:59	30° ₽ Ω	
desc. node	5395 Dec 22 14:46	0° る 34'47		morning rise	5396 Oct 28 16:07	26° ≏ 08'41	
				direct	5396 Oct 31 00:05	25° £ 44'45	
superior conj	5395 Dec 23 20:23	2° る 35'33	-0°08'40	asc. node	5396 Nov 02 06:41	26° ≏ 08'17	
minimum elong	5395 Dec 23 19:24	2° る 31'33	0°08'31	morning max el	5396 Nov 06 20:29	29° ≏ 13'45	17°51'11
behind sun begin	5395 Dec 23 10:52	1° る 56'50			5396 Nov 07 14:27	0°M	
behind sun end	5395 Dec 24 03:56	3° ⋜ 06'14		morning set	5396 Nov 22 17:52	24°M01'42	
max. Earth dist.	5395 Dec 29 07:17	11° る 21'18	1.44589 AU		5396 Nov 26 01:54	0° ∡ ¹	
evening rise	5396 Jan 08 17:49	27° ප 38'31					
	5396 Jan 10 06:43	0° ≈		superior conj	5396 Dec 03 18:20	13° ∡ ¹25'21	0°33'12
	5396 Jan 30 17:52	0° ∀		minimum elong	5396 Dec 03 21:14	13° ∡ ³37'45	0°32'48
evening max el	5396 Feb 05 15:28	7° ₩ 02'26	20°27'06	desc. node	5396 Dec 08 11:47	21° ≯ ¹21'28	
asc. node	5396 Feb 12 08:55	11° ¥ 35'51		max. Earth dist.	5396 Dec 10 22:28	25° ∡ ¹22'00	1.43258 AU
retrograde	5396 Feb 13 15:52	11°) 44'45			5396 Dec 13 19:26	8°0	
evening set	5396 Feb 17 13:24	10° ¥ 17'05		evening rise	5396 Dec 18 06:41	7° る 03'11	
inferior conj	5396 Feb 22 22:01	4°) 10′01	2°57'06	8 11	5397 Jan 02 13:38	0° ≈	
minimum elong	5396 Feb 22 19:46	4°) 17'40	2°56'36	evening max el	5397 Jan 18 12:40	20° ≈ 38'11	21°38'17
min. Earth dist.	5396 Feb 23 14:13	3°) 14'41		retrograde	5397 Jan 27 13:25	25°≈59'44	
	5396 Feb 26 02:34	30°R≈		asc. node	5397 Jan 29 05:56	25° ≈ 44'32	
morning rise	5396 Feb 28 01:54	27°≈55'38		evening set	5397 Jan 31 21:13	24°≈16'46	
direct	5396 Mar 04 17:09	25° ≈ 24'47		inferior conj	5397 Feb 06 05:17	17° ≈ 59'35	2°24'52
	5396 Mar 13 17:42	0° ₩		minimum elong	5397 Feb 06 02:53	18° ≈ 07'54	
morning max el	5396 Mar 16 00:41		24°27'02	min. Earth dist.	5397 Feb 06 09:01	17° ≈ 46'34	0.68035 AU
desc. node	5396 Mar 19 14:01	6° ₩ 02'56		morning rise	5397 Feb 11 08:22	11° ≈ 47'41	
	5396 Apr 06 03:50	0°Υ		direct	5397 Feb 16 09:10	9° ≈ 37'09	
morning set	5396 Apr 20 22:09	24° Υ '04'40		morning max el	5397 Feb 26 10:06	15° ≈ 34'01	22°57'42
	5396 Apr 24 06:06	0°8		desc. node	5397 Mar 06 11:04	24°≈59'32	* · ·=
max. Earth dist.	5396 Apr 24 13:31	0° 8 33'29	1.37628 AU		5397 Mar 10 05:04	0° ∀	
Land Gibt.	p. 27 15.51	2 033 27			10 00.0T	- /\	

		2200					
	5397 Mar 30 03:52	0° γ		morning set	5398 Mar 12 19:06	13° ¥ 45′22	
morning set	5397 Apr 01 22:53	4° Υ 35'15	1 20020 177	max. Earth dist.	5398 Mar 19 09:38		1.41943 AU
max. Earth dist.	5397 Apr 06 08:58	12° Y 03'38	1.39828 AU		5398 Mar 22 17:24	0 ° Υ	
aumorior coni	5397 Apr 14 02:42	25° Ƴ 48'53	1946155	aumorian aani	5200 Mar 26 22:11	7° Ƴ 11'26	2004121
superior conj minimum elong	5397 Apr 14 02:42 5397 Apr 14 07:46	25 γ 48 33 26°Υ12'09		superior conj minimum elong	5398 Mar 26 22:11 5398 Mar 27 01:38	7° Υ 26'24	
minimum ciong	5397 Apr 16 09:02	0° 8	1 40 23	evening rise	5398 Apr 06 22:58	26° Y 57'13	2 04 23
evening rise	5397 Apr 10 05:02 5397 Apr 23 19:31	14° 8 06'20		evening rise	5398 Apr 08 15:01	0°8	
asc. node	5397 Apr 27 05:12	20° 8 33'19		asc. node	5398 Apr 14 02:15	9° 8 45'27	
	5397 May 02 12:22	0°II		evening max el	5398 Apr 23 08:50	.T.	18°09'36
evening max el	5397 May 09 23:11	10° Ⅲ 04'57	18°30'35	retrograde	5398 Apr 30 04:28	26° 8 23'13	
retrograde	5397 May 17 14:50	13° ∏ 52′02		evening set	5398 May 02 17:22	25° 8 55'03	
evening set	5397 May 19 20:51	13° ∏ 33′25		inferior conj	5398 May 09 13:19	21° 8 04'23	2°43'21
inferior conj	5397 May 27 10:36	9° Ⅱ 03'30	1°40'13	minimum elong	5398 May 09 16:33	20° 8 56'55	2°42'36
minimum elong	5397 May 27 13:44	8° Ⅲ 57'17	1°39'12	min. Earth dist.	5398 May 12 21:03	18° 8 02'37	0.60218 AU
min. Earth dist.	5397 May 30 20:08	6° Ⅱ 24'09	0.58048 AU	morning rise	5398 May 16 13:17	15° 8 15'33	
desc. node	5397 Jun 02 10:16	4° Ⅱ 37'32		desc. node	5398 May 20 07:19	13° 8 34'52	
morning rise	5397 Jun 04 03:25	3° Ⅱ 40′19		direct	5398 May 23 02:17	13° 8 12'37	
direct	5397 Jun 10 01:04	2° Ⅱ 11'12		morning max el	5398 Jun 06 10:12	21° 8 06'44	27°40'48
morning max el	5397 Jun 24 10:14	9° ∏ 50′37	26°51'24		5398 Jun 14 03:11	Π °0	
	5397 Jul 09 20:23	0 \circ			5398 Jul 02 19:05	0	
morning set	5397 Jul 24 05:19	26° © 48'50		morning set	5398 Jul 08 11:46	11° © 20'45	
asc. node	5397 Jul 24 04:27	26° © 44'19		asc. node	5398 Jul 11 01:30	16° 5 346'18	
	5397 Jul 25 17:16	$0 ^{\circ} \Omega$		max. Earth dist.	5398 Jul 14 18:00	24° © 47'08	1.31960 AU
superior conj	5397 Jul 31 05:24	12° Ω 03'14		superior conj	5398 Jul 15 16:47	26° © 52'33	0°46'42
minimum elong	5397 Jul 31 03:07	11° Ω 50′39	1°07'10	minimum elong	5398 Jul 15 14:55	26°5542'11	0°46'19
max. Earth dist.	5397 Jul 31 06:57	12° Ω 11'48	1.31955 AU		5398 Jul 17 02:46	0 ° Ω	
evening rise	5397 Aug 07 01:48	26° Ω 57'55		evening rise	5398 Jul 22 11:54	11° Ω 43'39	
	5397 Aug 08 12:38	0° m/			5398 Jul 31 17:43	0° m)	
1 1	5397 Aug 25 11:46	0∘ ʊ		desc. node	5398 Aug 16 06:33	22° Mp 36'40	25025121
desc. node	5397 Aug 29 09:30	5° Ω 22'08	26944106	evening max el	5398 Aug 18 22:06	25° m 19'23	25°35'21
evening max el	5397 Sep 06 02:38 5397 Sep 20 00:34	14° £ 03'59	26°44'06		5398 Aug 24 22:33	0° ჲ 2° ჲ 24'22	
retrograde	5397 Sep 20 00:34 5397 Sep 26 21:11	21° £ 12'59 19° £ 13'19		retrograde	5398 Sep 01 20:47	2° 11 24°22 0° 1 59'26	
evening set min. Earth dist.	5397 Sep 20 21.11 5397 Sep 30 16:34	19 2 13 19	0.60143 AU	evening set	5398 Sep 07 21:28 5398 Sep 09 19:36	30°RM)	
inferior conj	5397 Sep 30 10:34 5397 Oct 03 21:53	10 = 30 33		min. Earth dist.	5398 Sep 12 10:01		0.58089 AU
minimum elong	5397 Oct 03 21:33 5397 Oct 04 04:04	13° Ω 47'55		inferior conj	5398 Sep 15 13:09	26° Mp 09'59	
morning rise	5397 Oct 04 04:04 5397 Oct 11 12:59	9° £ 18'30	4 32 13	minimum elong	5398 Sep 15 16:36	26° my 03'55	
direct	5397 Oct 11 12:39 5397 Oct 13 20:43	8° ≏ 58'18		morning rise	5398 Sep 23 14:01	21° mp 51'25	3 11 03
asc. node	5397 Oct 20 03:43	11° ≏ 34'45		direct	5398 Sep 26 01:05	21° mp 32'35	
morning max el	5397 Oct 21 08:39	12° ≏ 39'42	18°09'26	morning max el	5398 Oct 04 13:33	25° mp 36'11	18°48'25
5 5	5397 Nov 01 23:53	0°M		asc. node	5398 Oct 07 00:46	28° m) 16'14	
morning set	5397 Nov 06 03:28	7° M .42'48			5398 Oct 08 09:25	0∘ ⊽	
-				morning set	5398 Oct 20 23:47	21° ≏ 54'02	
superior conj	5397 Nov 15 17:25	25°M27'56	1°05'23		5398 Oct 25 02:57	0° M	
minimum elong	5397 Nov 15 21:19	25°M45'29	1°04'54				
	5397 Nov 18 06:32	0°⊀		superior conj	5398 Oct 29 12:46	8°M29'43	1°27'06
max. Earth dist.	5397 Nov 23 09:01	8° ∡ ¹47'55	1.41437 AU	minimum elong	5398 Oct 29 15:51	8°M44'23	1°26'49
desc. node	5397 Nov 25 08:48	12° ₰ 07'49		max. Earth dist.	5398 Nov 05 15:03	21°M30'45	1.39349 AU
evening rise	5397 Nov 28 11:01	17° ∡ 11'54		evening rise	5398 Nov 09 13:42	28°M21'22	
	5397 Dec 06 14:49	0°る			5398 Nov 10 13:00	0° ∡	
	5397 Dec 28 07:38	0° ≈		desc. node	5398 Nov 12 05:49	2° ∡ ′50′25	
evening max el	5398 Jan 01 05:12		22°56'37		5398 Nov 30 02:43	0° ろ	
retrograde	5398 Jan 11 08:41	10°≈17'05		evening max el	5398 Dec 14 18:45	17°る57'16	24°16'19
evening set	5398 Jan 16 04:18	8°≈18'21		retrograde	5398 Dec 26 00:34	24° る 32'58	
asc. node	5398 Jan 16 02:59	8°≈21'05	0.60122 433	evening set	5398 Dec 31 09:06	22° る 18'58	
min. Earth dist.	5398 Jan 21 05:38 5398 Jan 21 13:24	2°≈21'16	0.68133 AU	asc. node	5399 Jan 03 00:01 5399 Jan 05 01:49	19°る35'34 16°る55'32	0.67859 AU
inferior conj minimum elong	5398 Jan 21 13:24 5398 Jan 21 11:19	1°≈54'26 2°≈01'38	1°44'32 1°43'48	min. Earth dist. inferior conj	5399 Jan 05 01:49 5399 Jan 05 20:37	16°る55'32 15° る 52'19	0.67859 AU 0°57'06
minimum elong	5398 Jan 21 11:19 5398 Jan 22 22:58	2°≈01'38 30°Ŗる	1 4348	minimum elong	5399 Jan 05 20:37 5399 Jan 05 19:18	15°る52'19 15°る56'44	
morning rise	5398 Jan 26 18:15	30 KO 25° 石 46'32		morning rise	5399 Jan 11 05:35	13 3 30 44 9° る 50'04	0 20 30
direct	5398 Jan 31 04:35	23° る 58'53		direct	5399 Jan 11 03:33 5399 Jan 15 02:23	9 83004 8° る 24'51	
morning max el	5398 Feb 08 23:59	29° ප 06'12	21°32'04	morning max el	5399 Jan 22 21:13	12° る 50'33	20°16'38
mun or	5398 Feb 09 20:54	0°≈	2. 220.	g max vi	5399 Feb 05 03:19	0° ≈	_0 1000
desc. node	5398 Feb 21 08:06	14°≈32'08		desc. node	5399 Feb 08 05:07	4° ≈ 30'58	
	5398 Mar 03 21:55	0° ∀		morning set	5399 Feb 19 18:11	22° ≈ 01'38	

	5399 Feb 24 20:54	0° ∀		morning max el	5400 Jan 06 02:15	26° ₹ 44'54	10°15'00
max. Earth dist.	5399 Mar 01 17:36	7°) 43′24	1.43693 AU	morning max er	5400 Jan 09 00:21	20 x 44 34 0°る	19 13 09
max. Earth dist.	3399 Iviai 01 17.30	/ /(43.24	1.43093 AU	greatest brilliancy	5400 Jan 19 13:05	14° ਰ 47'43	-0.7m
superior conj	5399 Mar 07 17:09	17° ¥ 27'05	-2°08'44	desc. node	5400 Jan 26 02:07	24°る48'15	0.7111
minimum elong	5399 Mar 07 15:40	17° ₩ 20'57		desc. node	5400 Jan 29 10:44	0°≈	
g	5399 Mar 15 04:21	0°Υ	2 00 .5	morning set	5400 Jan 29 18:23	0°≈29'35	
evening rise	5399 Mar 20 09:24	8° Y 59'53		max. Earth dist.	5400 Feb 12 07:39	21° ≈ 39'03	1.44867 AU
asc. node	5399 Mar 31 23:18	28° Ƴ 29'21					
	5399 Apr 01 23:39	0°8		superior conj	5400 Feb 15 11:24	26° ≈ 38'42	-1°54'22
evening max el	5399 Apr 06 21:26	6° 8 07'36	18°08'01	minimum elong	5400 Feb 15 03:42	26° ≈ 08'10	1°53'50
retrograde	5399 Apr 13 08:09	9° 8 29'44			5400 Feb 17 13:58	0°) €	
evening set	5399 Apr 16 03:26	8° 8 50'17		evening rise	5400 Mar 01 22:24	20°) €05'45	
inferior conj	5399 Apr 22 09:34	3° 8 39'57	3°18'30		5400 Mar 07 22:03	$0^{\circ}\Upsilon$	
minimum elong	5399 Apr 22 11:29	3° 8 34'54	3°18'15	asc. node	5400 Mar 18 20:20	16° Ƴ 35'53	
min. Earth dist.	5399 Apr 25 06:31	_	0.62397 AU	evening max el	5400 Mar 21 10:00	19° Y 31'30	18°25'14
	5399 Apr 25 22:51	30° ₹Ƴ		retrograde	5400 Mar 27 21:18	23° Y 02'07	
morning rise	5399 Apr 28 18:01	27° Ƴ 35'48		evening set	5400 Mar 30 22:58	22° Y 10′11	
direct	5399 May 05 13:57	25° Y ′04'48		inferior conj	5400 Apr 05 19:10	16° Ƴ 41'39	3°31'40
desc. node	5399 May 07 04:22	25° Y 12′29		minimum elong	5400 Apr 05 19:29	16° Ƴ 40'44	3°31'40
	5399 May 16 07:13	0° 8		min. Earth dist.	5400 Apr 08 01:20	14° Y ′04'20	0.64342 AU
morning max el	5399 May 19 16:06	3° 8 05'36	27°52'31	morning rise	5400 Apr 11 15:12	10° Y 30′03	
	5399 Jun 08 14:30	$\Pi^{\circ 0}$		direct	5400 Apr 18 09:53	7° Y 43′03	
morning set	5399 Jun 22 12:45	25° Ⅱ 33'41		desc. node	5400 Apr 24 01:23	9° Y 19′26	
	5399 Jun 24 16:34	0.20 0.20		morning max el	5400 May 02 01:19	15° Y 40′18	27°27'54
asc. node	5399 Jun 27 22:33	6°952'51	1 22202 111		5400 May 13 19:30	0° B	
max. Earth dist.	5399 Jun 28 01:22	7° © 07'58	1.32392 AU		5400 Jun 01 08:00	0° П	
	5200 I 20 02:02	110621100	0922111	morning set	5400 Jun 06 05:41	9° Ⅲ 20′08 19° Ⅲ 03′30	1 22277 ATT
superior conj	5399 Jun 30 02:03 5399 Jun 30 01:02	11° © 31'29 11° © 25'56	0°22'11 0°21'56	max. Earth dist.	5400 Jun 11 01:08	19°Щ03′30	1.33277 AU
minimum elong evening rise	5399 Jul 06 23:35	26°930'33	0 21 30	superior conj	5400 Jun 14 07:16	25° ∏ 54'27	0005120
evening rise	5399 Jul 08 25:35 5399 Jul 08 15:17	20 2 30 33 0° Ω		minimum elong	5400 Jun 14 07:16	25° I I55'54	
	5399 Jul 26 04:48	0° m)		behind sun begin	5400 Jun 14 07:33	25° I 128'24	0 03 18
evening max el	5399 Jul 31 11:18	5° Mp 53'23	24°04'30	behind sun end	5400 Jun 14 12:43	26° I I23'25	
desc. node	5399 Aug 03 03:35	8° Mp 15'11	24 0430	asc. node	5400 Jun 14 19:35	27° I 100'05	
retrograde	5399 Aug 14 05:42	12° Mp 49'02		asc. node	5400 Jun 16 05:13	0°95	
evening set	5399 Aug 18 21:28	12° m) 01'02		evening rise	5400 Jun 21 11:01	11° © 13'04	
min. Earth dist.	5399 Aug 24 21:52	-	0.56296 AU		5400 Jul 01 02:35	$0^{\circ}\Omega$	
inferior conj	5399 Aug 27 08:10	7° m 33'34		evening max el	5400 Jul 13 00:59	16°Ω14'36	22°26'53
minimum elong	5399 Aug 27 05:38	7° m/37'29		desc. node	5400 Jul 21 00:37	21° Ω 44'36	
morning rise	5399 Sep 04 16:18	3° m/35'06		retrograde	5400 Jul 26 02:11	22° Ω 43'53	
direct	5399 Sep 07 09:55	3° m 15'42		evening set	5400 Jul 29 05:44	22° Q 22'04	
morning max el	5399 Sep 17 07:58	7° m 53'19	19°49'13	min. Earth dist.	5400 Aug 06 08:00	18° Ω 50'34	0.55108 AU
asc. node	5399 Sep 23 21:49	15° m 57'14		inferior conj	5400 Aug 07 09:28	18° Ω 14'30	-4°31'28
	5399 Oct 01 21:58	0∘ 亚		minimum elong	5400 Aug 07 01:19	18° Ω 26′03	4°29'45
morning set	5399 Oct 05 03:20	6° £ 25'13		morning rise	5400 Aug 15 22:47	14° Ω 24'43	
				direct	5400 Aug 19 01:50	14° Ω 02′29	
superior conj	5399 Oct 12 23:01	22° ≏ 14'49	1°39'18	morning max el	5400 Aug 30 14:11	19° Ω 24'53	21°11'10
minimum elong	5399 Oct 13 00:37	22° £ 22'49	1°39'13	_	5400 Sep 08 02:10	0° m/y	
	5399 Oct 16 22:19	0° M ₊		asc. node	5400 Sep 10 18:51	4° ™ 24'19	
max. Earth dist.	5399 Oct 18 19:59	3°M36'14	1.37259 AU	morning set	5400 Sep 19 11:35	21°Mp 09'42	
evening rise	5399 Oct 22 14:27	10°M30'56			5400 Sep 23 16:55	0∘ ⊽	
desc. node	5399 Oct 30 02:49	23°M24'46			5400 G 26 10 52	60.0.21101	1042110
	5399 Nov 03 05:29	0° ∡ 7		superior conj	5400 Sep 26 19:53	6° £ 31'01	1°43'19
	5399 Nov 25 15:28	0°궁 1°궁40'44	25920127	minimum elong	5400 Sep 26 19:59	6° £ 31'31	1°43'19
evening max el retrograde	5399 Nov 27 07:16 5399 Dec 09 11:59	8°る41'31	25°30'37	max. Earth dist. evening rise	5400 Oct 01 05:52 5400 Oct 05 09:46	15° £ 28'44 23° £ 32'12	1.35396 AU
evening set	5399 Dec 09 11:39 5399 Dec 15 09:57	6° ਰ 14'18		evening rise	5400 Oct 03 09:40 5400 Oct 08 21:57	0°M	
min. Earth dist.	5399 Dec 13 09:37 5399 Dec 19 19:17	1°る1418	0.67228 AU	desc. node	5400 Oct 08 21:57 5400 Oct 16 23:50	13°M46'15	
asc. node	5399 Dec 19 19:17 5399 Dec 20 21:05	0°る02'27	3.0,220 AU	desc. node	5400 Oct 10 23:30 5400 Oct 27 21:03	0° ₹	
300. 110 u c	5399 Dec 20 21:50	30°R.★		evening max el	5400 Nov 09 20:07	15° ₹ 123'05	26°32'00
inferior conj	5399 Dec 21 01:03	29° ×1 49'40	0°03'23	retrograde	5400 Nov 22 18:11	22° 🗷 37'07	_0 32 00
minimum elong	5399 Dec 21 01:05 5399 Dec 21 00:58	29° х 49'57	0°03'22	evening set	5400 Nov 29 04:59	20°×3707'37	
transit middle	5399 Dec 21 00:58	29° ∡ 149'57	0°03'22	min. Earth dist.	5400 Dec 03 07:41	15° ₹ 46'40	0.66251 AU
transit begin	5399 Dec 20 22:13	29° ∡ 758'46		inferior conj	5400 Dec 05 00:48	13° ₹ '43'12	
transit end	5399 Dec 21 03:42	29° ∡ ′41′08		minimum elong	5400 Dec 05 02:20	13° ∡ ³38'34	
morning rise	5399 Dec 26 16:20	23° ₹ ′55'02		asc. node	5400 Dec 07 18:06	10° ∡ ³37'18	
direct	5399 Dec 30 01:09	22° ∡ ¹49'45		morning rise	5400 Dec 11 00:25	7° ∡ 758'47	

direct	5400 Dec 13 23:16	7° ∡ "09'50		inferior conj	5401 Nov 18 17:37	27°M27'53	-1°58'15
morning max el	5400 Dec 19 23:10 5400 Dec 20 13:49	10°×745'28	18°29'32	minimum elong	5401 Nov 18 17:37	27°M18'24	1°56'51
morning max ci	5401 Jan 03 08:01	0°る	10 27 32	asc. node	5401 Nov 24 15:07	22°M11'58	1 30 31
morning set	5401 Jan 09 17:57	0 ර 10° ට 12'01		morning rise	5401 Nov 25 03:18	21°M56'47	
desc. node	5401 Jan 12 23:06	15° る 12'53		direct	5401 Nov 27 18:22	21°M20'22	
dese. Hode	5401 Jan 22 06:18	0°≈		morning max el	5401 Dec 04 05:32	24°M46'21	18°00'48
	2 101 Van 22 00.10			morning man er	5401 Dec 08 13:20	0°×7	10 00 10
superior conj	5401 Jan 25 15:05	5°≈16'55	-1°20'47	morning set	5401 Dec 21 23:18	21° х 23'42	
minimum elong	5401 Jan 25 06:00	4° ≈ 41'18			5401 Dec 27 04:10	0°궁	
max. Earth dist.	5401 Jan 26 01:59		1.45344 AU	desc. node	5401 Dec 30 20:07	5° る 58'49	
	5401 Feb 10 08:17	0°) (
evening rise	5401 Feb 10 12:01	0°){ 14'44		superior conj	5402 Jan 05 00:01	14° る 16'36	-0°35'29
greatest brilliancy	5401 Feb 19 22:31	15°) €09'36	-0.8m	minimum elong	5402 Jan 04 19:41	13° る 59'21	0°34'52
· ·	5401 Mar 02 04:03	$_{0}$ $^{\circ}$ γ		max. Earth dist.	5402 Jan 08 21:44	20° る 27'47	1.45073 AU
evening max el	5401 Mar 04 20:04	3° Ƴ 01'57	19°00'13		5402 Jan 14 23:59	0° ≈	
asc. node	5401 Mar 05 17:22	3° Y 53'42		evening rise	5402 Jan 21 06:09	9° ≈ 41'19	
retrograde	5401 Mar 11 16:12	6° Ƴ 52'46		Č	5402 Feb 03 14:08	0° ∀	
evening set	5401 Mar 15 00:46	5° Ƴ 47'27		greatest brilliancy	5402 Feb 04 05:10	0°) 55'42	-0.6m
inferior conj	5401 Mar 20 14:23	0° Y 02'16	3°28'04	evening max el	5402 Feb 16 01:44	16°) 35′14	19°51'20
minimum elong	5401 Mar 20 13:21	0° Υ 05'32	3°27'59	asc. node	5402 Feb 20 14:24	20°) 09'28	
C	5401 Mar 20 15:06	30°₽ ℋ		retrograde	5402 Feb 23 13:56	20° 升 56′24	
min. Earth dist.	5401 Mar 22 04:56	28° ℋ 00'38	0.65919 AU	evening set	5402 Feb 27 06:26	19°) 36′56	
morning rise	5401 Mar 26 01:32	23°) 47'48		inferior conj	5402 Mar 04 16:11	13°) 37′01	3°11'29
direct	5401 Apr 01 12:34	20° ¥ 58'36		minimum elong	5402 Mar 04 14:15	13°) 43′30	3°11'09
desc. node	5401 Apr 10 22:24	25°) 22'44		min. Earth dist.	5402 Mar 05 16:04	12° ℋ 17'16	0.67071 AU
morning max el	5401 Apr 14 11:15	28°) 39′07	26°33'00	morning rise	5402 Mar 09 21:51	7° ¥ 22'15	
C	5401 Apr 15 18:23	$0^{\circ}\mathbf{\Upsilon}$		direct	5402 Mar 15 20:58	4°) 42′27	
	5401 May 07 14:37	0°8		morning max el	5402 Mar 27 20:26	11° ¥ 51'55	25°16'46
morning set	5401 May 20 11:07	22° 8 29'05		desc. node	5402 Mar 28 19:23	12° ¥ 51'13	
	5401 May 24 08:32	$\Pi^{\circ}0$			5402 Apr 11 09:14	0° Y	
max. Earth dist.	5401 May 24 14:15	0° Ⅲ 28′15	1.34640 AU		5402 Apr 30 07:37	0° ႘	
	•			morning set	5402 May 03 00:36	4° 8 48'28	
superior conj	5401 May 29 06:07	9° Ⅱ 53'49	-0°34'49	max. Earth dist.	5402 May 06 16:41	11° 8 32'51	1.36441 AU
minimum elong	5401 May 29 08:01	10° Ⅱ 03'38	0°34'27		•		
asc. node	5401 Jun 01 16:36	17° Ⅲ 03'16		superior conj	5402 May 12 19:47	23° 8 22'07	-1°04'47
evening rise	5401 Jun 05 20:12	25° Ⅱ 44'10		minimum elong	5402 May 12 23:24	23° 8 40'05	1°04'09
	5401 Jun 07 22:01	0°€		-	5402 May 16 03:12	$\Pi^{\circ}0$	
evening max el	5401 Jun 24 22:58	26°\$54'30	20°57'06	asc. node	5402 May 19 13:39	6° Ⅱ 58'37	
•	5401 Jun 28 16:42	$0^{\circ}\Omega$				_	
	J-01 Juli 20 102	0 36		evening rise	5402 May 21 00:58	9° Ⅱ 57'36	
retrograde	5401 Jul 06 14:35	2° Ω 38'19		evening rise	5402 May 21 00:58 5402 May 31 22:05	9°∏57'36 0°©	
retrograde desc. node				evening rise evening max el	•		19°44'16
•	5401 Jul 06 14:35	2° Ω 38'19			5402 May 31 22:05	0ಂತ	19°44'16
desc. node	5401 Jul 06 14:35 5401 Jul 07 21:39	2° Ω 38'19 2° Ω 34'19		evening max el	5402 May 31 22:05 5402 Jun 07 09:17	0°ഇ 8°ഇ13′21	19°44'16
desc. node	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41	2°N38'19 2°N34'19 2°N27'11	-2°57'40	evening max el retrograde	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37	0°ତ 8°ତ13'21 13°ତ04'56	19°44'16
desc. node evening set	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04	2° \Omega 38'19 2° \Omega 34'19 2° \Omega 27'11 30°R\$ 28°\$29'55	-2°57'40 2°55'03	evening max el retrograde evening set	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30	0°© 8°©13'21 13°©04'56 12°©54'54	
desc. node evening set inferior conj	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28	2° \Omega 38'19 2° \Omega 34'19 2° \Omega 27'11 30°R\$ 28°\$29'55		evening max el retrograde evening set desc. node	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39	0°© 8°©13'21 13°©04'56 12°©54'54 10°©49'26	
desc. node evening set inferior conj minimum elong	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34	2° N 38'19 2° N 34'19 2° N 27'11 30° R © 28° © 29'55 28° © 41'05	2°55'03	evening max el retrograde evening set desc. node inferior conj	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53	0°95 8°9513'21 13°904'56 12°954'54 10°949'26 8°952'18	-0°59'23
desc. node evening set inferior conj minimum elong min. Earth dist.	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32	2° N 38'19 2° N 34'19 2° N 27'11 30° R 5 28° 5 29'55 28° 5 41'05 28° 5 07'11	2°55'03	evening max el retrograde evening set desc. node inferior conj minimum elong	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09	0°95 8°9513'21 13°9504'56 12°9554'54 10°9549'26 8°9552'18 8°956'31	-0°59'23 0°58'23
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31	2° N 38'19 2° N 34'19 2° N 27'11 30° R 5 28° 529'55 28° 541'05 28° 507'11 24° 530'34	2°55'03	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54	2° N 38'19 2° N 34'19 2° N 27'11 30° R 9 28° 9 29'55 28° 9 41'05 28° 9 07'11 24° 9 30'34 24° 9 01'25	2°55'03 0.54797 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38	0°50 8°5013'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07	2° N 38'19 2° N 34'19 2° N 27'11 30° R 528'55 28° 529'55 28° 507'11 24° 530'34 24° 501'25 0° N	2°55'03 0.54797 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29	2° N 38'19 2° N 34'19 2° N 27'11 30° R 50 28° 529'55 28° 507'11 24° 530'34 24° 501'25 0° N 12'27	2°55'03 0.54797 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21	0°50 8°5013'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52	2°N38'19 2°N34'19 2°N27'11 30°R\$ 28°\$29'55 28°\$07'11 24°\$30'34 24°\$01'25 0°N 0°N12'27 23°N25'27	2°55'03 0.54797 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°\$	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38	2°N38'19 2°N34'19 2°N27'11 30°R© 28°©29'55 28°©41'05 28°©07'11 24°©30'34 24°©01'25 0°N 0°N12'27 23°N25'27	2°55'03 0.54797 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°\$ 12°\$52'07	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38	2°N38'19 2°N34'19 2°N27'11 30°R© 28°©29'55 28°©41'05 28°©07'11 24°©30'34 24°©01'25 0°N 0°N12'27 23°N25'27	2°55'03 0.54797 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09	-0°59'23 0°58'23 0.55446 AU
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 03 22:27	2°N38'19 2°N34'19 2°N27'11 30°R\$ 28°\$29'55 28°\$41'05 28°\$07'11 24°\$30'34 24°\$01'25 0°N 0°N12'27 23°N25'27 0°M 6°M00'39	2°55'03 0.54797 AU 22°49'41	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09	-0°59'23 0°58'23 0.55446 AU 24°33'52
desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 03 22:27	2° N 38'19 2° N 34'19 2° N 27'11 30° R 9 28° 929'55 28° 941'05 28° 907'11 24° 930'34 24° 901'25 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12 27° M 29'00	2°55'03 0.54797 AU 22°49'41 1°40'26	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 08:38 5402 Aug 26 06:42	0°\$\text{8}\times \text{9} \text{3}'21\text{13}\times \text{9} \text{4}'56\text{12}\times \text{5}'54'54\text{10}\times \text{9} \text{4}'9'26\text{8}\times \text{9}5'21\text{8}\text{8}\times \text{9}5'6'31\text{7}\times \text{29}'51\text{4}\times \text{24}'21\text{3}\times \text{9}40'21\text{10}\text{9}35'01\text{0}\text{9}\text{3}\text{5}2'07\text{20}\text{\$\infty} \text{\$\infty} \text{5}2'07\text{20}\text{\$\infty} \text{\$\infty} \text{5}3'09\text{0}\text{0}\text{\$\infty} \text{0}\text{5}\text{1}'07\text{1}\text{1}\text{1}\text{1}\text{0}\text{1}\text{1}\text{0}\text{1}\text{0}\text{5}\text{2}'07\text{1}\text{1}\text{0}\text{0}\text{0}\text{5}\text{3}'09\text{0}\text{0}\text{0}\text{1}\text{1}\text{1}\text{0}\text{0}\text{1}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}\text{0}\text{1}\text{0}\text{1}\text{0}\text{1}\text{0}	-0°59'23 0°58'23 0.55446 AU 24°33'52
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	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 03 22:27 5401 Sep 10 23:57 5401 Sep 10 22:49	2° N 38'19 2° N 34'19 2° N 27'11 30° R 3 28° 529'55 28° 541'05 28° 507'11 24° 530'34 24° 501'25 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31	0°\$\\ 8°\$13'21\\ 13°\$04'56\\ 12°\$54'54\\ 10°\$49'26\\ 8°\$52'18\\ 8°\$56'31\\ 7°\$29'51\\ 4°\$24'21\\ 3°\$40'21\\ 10°\$35'01\\ 0°\$\\ 12°\$\Cappa 53'09\\ 0°\$\\ 5°\$\\ 5°\$\\ 55'42	-0°59'23 0°58'23 0.55446 AU 24°33'52
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	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 03 22:27 5401 Sep 10 23:57 5401 Sep 10 22:49 5401 Sep 14 00:17	2° N 38'19 2° N 34'19 2° N 34'19 2° N 27'11 30° R 28° 29'55 28° 29'55 28° 29'105 28° 30'34 24° 30'34 24° 30'12'5 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12 27° M 29'00 0° L 7° L 12'39	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 08:38 5402 Aug 26 06:42	0°96 8°913'21 13°904'56 12°954'54 10°949'26 8°952'18 8°956'31 7°929'51 4°924'21 3°940'21 10°935'01 0°A 12°A52'07 20°A53'09 0°M 5°M55'42 5°M45'08 9°M45'53 21°M22'10	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26
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.	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 03 22:27 5401 Sep 10 23:57 5401 Sep 10 22:49 5401 Sep 14 00:17 5401 Sep 15 05:26	2° N 38'19 2° N 34'19 2° N 34'19 2° N 27'11 30° R 28° 29'55 28° 29'55 28° 30'711 24° 30'34 24° 30'34 24° 30'12'5 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12 27° M 29'00 0° £	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 08:38 5402 Aug 26 06:42 5402 Aug 28 03:02	0°96 8°913'21 13°904'56 12°954'54 10°949'26 8°952'18 8°956'31 7°929'51 4°924'21 3°940'21 10°935'01 0°A 12°A52'07 20°A53'09 0°M 5°M\$55'42 5°M\$45'08 9°M\$45'53	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26
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.	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 14 00:17 5401 Sep 15 05:26 5401 Sep 18 19:18	2° N 38'19 2° N 34'19 2° N 34'19 2° N 27'11 30° R 28° 29'55 28° 29'55 28° 29'105 28° 30'34 24° 30'34 24° 30'12'5 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12 27° M 29'00 0° L 7° L 12'39	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 08:38 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 02 15:20	0°96 8°913'21 13°904'56 12°954'54 10°949'26 8°952'18 8°956'31 7°929'51 4°924'21 3°940'21 10°935'01 0°N 12°N52'07 20°N53'09 0°M 5°M55'42 5°M45'08 9°M45'53 21°M22'10	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26
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	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 23:57 5401 Sep 10 22:49 5401 Sep 14 00:17 5401 Sep 18 19:18 5401 Oct 01 11:44	2° N 38'19 2° N 34'19 2° N 27'11 30° R 20 28° 29'55 28° 41'05 28° 30'34 24° 30'34 24° 30'125 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12 27° M 29'00 0° 12'39 0° M 3° M 47'54 28° M 54'25	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23 1.33891 AU	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 02 15:20 5402 Sep 07 00:10	0°5 8°513'21 13°504'56 12°554'54 10°54'9'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°N 12°N52'07 20°N55'42 5°M55'42 5°M55'42 5°M55'42 0°M22'10 0°M	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26
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 desc. node	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 23:57 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 15 05:26 5401 Sep 18 19:18 5401 Oct 01 11:44 5401 Oct 03 20:53	2° N 38'19 2° N 34'19 2° N 27'11 30° R 20 28° 29'55 28° 41'05 28° 30'34 24° 30'34 24° 30'125 0° N 0° N 12'27 23° N 25'27 0° m 6° m 00'39 21° m 07'13 21° m 01'12 27° m 29'00 0° 12'39 0° 13° 12'39 0° 13'47'54	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23 1.33891 AU	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 07 00:10 5402 Sep 20 17:55	0°5 8°513'21 13°504'56 12°554'54 10°54'9'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09 0°M 5°M\$55'42 5°M\$45'08 9°M\$45'53 21°M\$22'10 0°£ 23°£21'15	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26 1.32801 AU
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 desc. node	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 11 00:17 5401 Sep 12 12:49 5401 Sep 18 19:18 5401 Oct 01 11:44 5401 Oct 03 20:53 5401 Oct 23 08:51	2° N 38'19 2° N 34'19 2° N 27'11 30° R 20 28° 29'55 28° 41'05 28° 30'34 24° 30'34 24° 30'125 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 01'12 27° M 29'00 0° 12'39 0° M 3° M 47'54 28° M 54'25	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23 1.33891 AU	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	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 02 15:20 5402 Sep 07 00:10 5402 Sep 20 17:55 5402 Sep 25 10:23	0°50 8°513'21 13°504'56 12°554'54 10°54'9'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09 0°M 5°M55'42 5°M45'08 9°M45'53 21°M22'10 0°£ 23°£21'15 0°M	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26 1.32801 AU
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 desc. node evening max el	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 11 00:17 5401 Sep 12 09:29 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 11 22:49 5401 Sep 12 20:53 5401 Oct 01 11:44 5401 Oct 03 20:53 5401 Oct 24 13:10	2° N 38'19 2° N 34'19 2° N 34'19 2° N 27'11 30° R 9 28° 929'55 28° 941'05 28° 907'11 24° 930'34 24° 901'25 0° N 0° N 12'27 23° N 25'27 0° m 6° m 00'39 21° m 07'13 21° m 07'13 21° m 01'12 27° m 29'00 0° 12'39 0° 12'39 0° 13° 147'54 28° 154'25 0° \$7	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23 1.33891 AU	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 evening max el	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 02 15:20 5402 Sep 07 00:10 5402 Sep 20 17:55 5402 Sep 25 10:23 5402 Oct 05 19:44	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09 0°m 5°m55'42 5°m45'08 9°m45'53 21°m22'10 0°£ 23°£21'15 0°M. 12°M01'50	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26 1.32801 AU
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 desc. node evening max el retrograde	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 09:29 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 11 00:17 5401 Sep 12 09:29 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 11 00:17 5401 Sep 12 20:53 5401 Oct 01 11:44 5401 Oct 03 20:53 5401 Oct 24 13:10 5401 Nov 05 18:23	2° N 38'19 2° N 34'19 2° N 34'19 2° N 27'11 30° R 28° 29'55 28° 41'05 28° 30'34 24° 30'34 24° 30'125 0° N 0° N 12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 07'13 21° M 01'12 27° M 29'00 0° L 7° L 12'39 0° M 3° M 47'54 28° M 54'25 0° X 12'15	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23 1.33891 AU	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 evening max el retrograde	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 02 15:20 5402 Sep 02 17:55 5402 Sep 25 10:23 5402 Oct 05 19:44 5402 Oct 19 12:13	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09 0°m 5°m55'42 5°m45'08 9°m45'53 21°m22'10 0°£ 23°£21'15 0°M 12°M01'50 19°M18'04	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26 1.32801 AU
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 desc. node evening max el retrograde	5401 Jul 06 14:35 5401 Jul 07 21:39 5401 Jul 08 18:41 5401 Jul 15 09:04 5401 Jul 18 02:28 5401 Jul 17 18:34 5401 Jul 18 18:32 5401 Jul 26 18:31 5401 Jul 30 10:54 5401 Aug 12 04:07 5401 Aug 12 09:29 5401 Aug 28 15:52 5401 Sep 01 00:38 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 10 22:49 5401 Sep 11 00:17 5401 Sep 12 09:26 5401 Sep 13 19:18 5401 Oct 01 11:44 5401 Oct 03 20:53 5401 Nov 05 18:23 5401 Nov 12 15:57	2° N 38'19 2° N 34'19 2° N 34'19 2° N 27'11 30° R 28° 29'55 28° 29'55 28° 29'55 28° 29'10 24° 30'34 24° 30'12'27 23° N 25'27 0° M 6° M 00'39 21° M 07'13 21° M 07'13 21° M 01'12 27° M 29'00 0° L 7° L 12'39 0° M 3° M 47'54 28° M 54'25 0° X 6° X 12'15 3° X 32'41 30° R M	2°55'03 0.54797 AU 22°49'41 1°40'26 1°40'23 1.33891 AU	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 evening max el retrograde evening set	5402 May 31 22:05 5402 Jun 07 09:17 5402 Jun 17 07:37 5402 Jun 19 05:30 5402 Jun 24 18:39 5402 Jun 28 01:53 5402 Jun 27 23:09 5402 Jun 30 07:09 5402 Jul 06 14:38 5402 Jul 11 01:43 5402 Jul 24 23:21 5402 Aug 08 13:47 5402 Aug 15 12:54 5402 Aug 19 10:12 5402 Aug 23 15:31 5402 Aug 26 06:42 5402 Aug 28 03:02 5402 Sep 02 15:20 5402 Sep 02 15:20 5402 Sep 20 17:55 5402 Sep 25 10:23 5402 Oct 05 19:44 5402 Oct 19 12:13 5402 Cot 26 15:57	0°5 8°513'21 13°504'56 12°554'54 10°549'26 8°552'18 8°556'31 7°529'51 4°524'21 3°540'21 10°535'01 0°A 12°A52'07 20°A53'09 0°m 5°m55'42 5°m45'08 9°m45'53 21°m22'10 0°£ 23°£21'15 0°M 12°M01'50 19°M18'04 16°M44'28	-0°59'23 0°58'23 0.55446 AU 24°33'52 1°31'38 1°31'26 1.32801 AU 27°27'20 0.63259 AU

						_	
minimum elong	5402 Nov 02 06:06	10° M 43′56	3°00'21	evening set	5403 Oct 09 01:16	29° Ω 29'37	
morning rise	5402 Nov 08 21:50	5°M42'46		min. Earth dist.	5403 Oct 12 16:53	26° ≏ 46'01	0.61324 AU
direct	5402 Nov 11 07:37	5°M15'13		inferior conj	5403 Oct 15 19:17	24° ≏ 03'16	-4°02'58
asc. node	5402 Nov 11 12:09	5°M15'23		minimum elong	5403 Oct 16 01:39	23° ≏ 49'17	4°01'13
morning max el	5402 Nov 17 22:27	8° ™ 40′27	17°49'31	morning rise	5403 Oct 23 04:01	19° ≙ 08'56	
	5402 Dec 02 01:36	0° ∡ ¹		direct	5403 Oct 25 11:23	18° ≏ 47'00	
morning set	5402 Dec 04 05:57	3° ∡ ¹48'27		asc. node	5403 Oct 29 09:11	19° ≏ 52'37	
				morning max el	5403 Nov 01 13:27	22° ≏ 20'05	17°56'34
superior conj	5402 Dec 16 06:45	24° ₹ ¹22'08	0°10'07		5403 Nov 07 11:59	0° M ₊	
minimum elong	5402 Dec 16 07:48	24° ∡ ¹26'28	0°10'00	morning set	5403 Nov 17 07:25	17° M 06'44	
behind sun begin	5402 Dec 16 00:20	23° ₹ 55'31			5403 Nov 24 09:46	0° ∡ ¹	
behind sun end	5402 Dec 16 15:16	24° ₹ 57'22					
desc. node	5402 Dec 17 17:09	26° х 44′01		superior conj	5403 Nov 27 16:00	5° ∡ ¹45'06	0°48'08
	5402 Dec 19 17:06	0°⋜		minimum elong	5403 Nov 27 19:38	6° √ 00'56	
max. Earth dist.	5402 Dec 22 15:28	4° ⋜ 43'53	1.44093 AU	desc. node	5403 Dec 04 14:12	17° ∡ ³31'17	.,
evening rise	5402 Dec 31 16:20	18° る 55'09	1075110	max. Earth dist.	5403 Dec 05 04:34	18° ∡ °30'38	1.42527 AU
evening rise	5403 Jan 07 23:06	0°≈		evening rise	5403 Dec 11 10:26	28° 🗷 35'19	1.42327710
	5403 Jan 29 22:19	0° ∺		evening rise	5403 Dec 11 10:20 5403 Dec 12 07:56	0°る	
	5403 Jan 30 01:56	0° ∺ 09'17	2005(100			0°≈	
evening max el			20°56'09		5404 Jan 01 15:42		22010150
asc. node	5403 Feb 07 11:26	5°) €08'06		evening max el	5404 Jan 12 20:53	13°≈45'18	22°10′58
retrograde	5403 Feb 07 12:11	5° ₩ 08'07		retrograde	5404 Jan 22 09:06	19° ≈ 24'34	
evening set	5403 Feb 11 13:57	3°) 33′49		asc. node	5404 Jan 25 08:27	18° ≈ 37'57	
	5403 Feb 14 23:00	30°R ≈		evening set	5404 Jan 26 21:40	17° ≈ 34'55	
inferior conj	5403 Feb 16 22:05	27° ≈ 21'49	2°44'27	inferior conj	5404 Feb 01 05:58	11° ≈ 14'10	2°08'41
minimum elong	5403 Feb 16 19:43	27° ≈ 29'58	2°43'52	minimum elong	5404 Feb 01 03:39	11° ≈ 22'13	2°07'56
min. Earth dist.	5403 Feb 17 08:45	26° ≈ 45′00	0.67798 AU	min. Earth dist.	5404 Feb 01 04:43	11° ≈ 18′32	0.68122 AU
morning rise	5403 Feb 22 01:18	21° ≈ 08′21		morning rise	5404 Feb 06 09:30	5° ≈ 03'33	
direct	5403 Feb 27 10:21	18° ≈ 45'56		direct	5404 Feb 11 03:59	3° ≈ 02'42	
morning max el	5403 Mar 10 05:14	25°≈11'50	23°49'12	morning max el	5404 Feb 20 16:12	8° ≈ 38'37	22°20'17
	5403 Mar 14 13:39	0°) €		desc. node	5404 Mar 01 13:28	20° ≈ 33'45	
desc. node	5403 Mar 15 16:25	1°) €20'30			5404 Mar 08 07:22	0° ∀	
	5403 Apr 04 21:23	$0^{\circ}\mathbf{\Upsilon}$		morning set	5404 Mar 25 05:03	25° ¥ 58′20	
morning set	5403 Apr 14 16:26	16° Ƴ 02'37			5404 Mar 27 15:58	0° Y	
max. Earth dist.	5403 Apr 18 12:34	22° Ƴ 43'34	1.38554 AU	max. Earth dist.	5404 Mar 30 09:07	4° Υ 32'17	1.40754 AU
	5403 Apr 22 13:19	0°8					
	r			superior conj	5404 Apr 07 04:16	18° Ƴ 06'09	-1°55'40
superior conj	5403 Apr 25 20:38	6° 8 09'34	-1°32'53	minimum elong	5404 Apr 07 09:00	18° Y °27′24	
minimum elong	5403 Apr 26 01:32	6° 8 32'45		g	5404 Apr 13 16:15	0°8	1 00 15
evening rise	5403 May 04 22:35	23° 8 45'18	1 32 13	evening rise	5404 Apr 17 09:48	6° 8 59'14	
asc. node	5403 May 06 10:42	26° 8 41'08		asc. node	5404 Apr 22 07:44	16° 8 05'54	
asc. node	5403 May 08 04:02	0°II		asc. node	5404 May 01 01:23	10 С 03 3 4	
avanina may al		20° Ⅱ 13'45	10051126	avanina may al	5404 May 03 13:40	0 H 2°H49'13	18°19'17
evening max el	5403 May 21 07:13	20 II 13 43 24°II 20'25	18°51'36	evening max el	5404 May 10 19:27	2 П4913 6°П25'47	18 1917
retrograde	5403 May 29 16:08			retrograde	•	6° П 03'30	
evening set	5403 May 31 18:00	24° Ⅱ 06'12	0040142	evening set	5404 May 13 04:21		2010144
inferior conj	5403 Jun 08 19:13	19° Ⅱ 47'45		inferior conj	5404 May 20 10:08	1° Ⅱ 25'06	
minimum elong	5403 Jun 08 21:05	19° Ⅱ 44'22	0°49'01	minimum elong	5404 May 20 13:35	1° Ⅱ 17'48	2°09'45
desc. node	5403 Jun 11 15:40	17° Ⅱ 44'53	0.56000 177		5404 May 22 02:16	30°₹ 8	0.50046.477
min. Earth dist.	5403 Jun 11 23:18		0.56922 AU	min. Earth dist.	5404 May 23 20:34	_	0.58946 AU
morning rise	5403 Jun 16 20:49	14° ∐ 43'10		morning rise	5404 May 27 19:46	25° 8 49'27	
direct	5403 Jun 22 06:12	13° Ⅲ 33'02		desc. node	5404 May 28 12:43	25° 8 27'24	
morning max el	5403 Jul 06 14:16	21° Ⅱ 00'32	26°08'04	direct	5404 Jun 03 00:59	24° 8 05'25	
	5403 Jul 14 09:27	0			5404 Jun 15 09:44	Π $\circ 0$	
	5403 Aug 01 03:20	$0^{\circ}\Omega$		morning max el	5404 Jun 17 10:20	1° Ⅲ 53′08	27°16'52
asc. node	5403 Aug 02 09:57	2° Ω 37'17			5404 Jul 07 16:31	0 \circ	
morning set	5402 A 02 21.15	5° Ω 42'15		morning set	5404 Jul 18 05:51	20°521'48	
	5403 Aug 03 21:15						
	5403 Aug 03 21:15			asc. node	5404 Jul 19 07:00	22° © 34'26	
superior conj	5403 Aug 10 19:50	20° Ω 49'49	1°17'42	asc. node	5404 Jul 19 07:00 5404 Jul 22 17:28	22° © 34′26 0° Ω	
superior conj minimum elong	-			asc. node			
	5403 Aug 10 19:50	20° \ 49'49 20° \ 37'12		asc. node superior conj			0°59'13
minimum elong	5403 Aug 10 19:50 5403 Aug 10 17:33	20° \ 49'49 20° \ 37'12	1°17'21	superior conj	5404 Jul 22 17:28	$0^{\circ}\Omega$	
minimum elong	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43	20° N 49'49 20° N 37'12 22° N 17'23 0° M	1°17'21		5404 Jul 22 17:28 5404 Jul 25 07:39	0° Ω 5° Ω 42'31 5° Ω 30'33	
minimum elong max. Earth dist.	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43 5403 Aug 15 00:28 5403 Aug 17 18:45	20° Ω 49'49 20° Ω 37'12 22° Ω 17'23	1°17'21	superior conj minimum elong max. Earth dist.	5404 Jul 22 17:28 5404 Jul 25 07:39 5404 Jul 25 05:29 5404 Jul 24 22:48	0°N 5°N42'31 5°N30'33 4°N53'34	0°58'48
minimum elong max. Earth dist.	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43 5403 Aug 15 00:28 5403 Aug 17 18:45 5403 Aug 30 14:07	20° N 49'49 20° N 37'12 22° N 17'23 0° M 5° M 52'07	1°17'21	superior conj minimum elong	5404 Jul 22 17:28 5404 Jul 25 07:39 5404 Jul 25 05:29 5404 Jul 24 22:48 5404 Aug 01 03:00	0°N 5°N42'31 5°N30'33 4°N53'34 20°N33'55	0°58'48
minimum elong max. Earth dist. evening rise desc. node	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43 5403 Aug 15 00:28 5403 Aug 17 18:45 5403 Aug 30 14:07 5403 Sep 07 14:56	20° N 49'49 20° N 37'12 22° N 17'23 0° M 5° M 52'07 0° <u>Q</u> 12° <u>Q</u> 14'54	1°17′21 1.32134 AU	superior conj minimum elong max. Earth dist. evening rise	5404 Jul 22 17:28 5404 Jul 25 07:39 5404 Jul 25 05:29 5404 Jul 24 22:48 5404 Aug 01 03:00 5404 Aug 05 17:19	0°N 5°N42'31 5°N30'33 4°N53'34 20°N33'55 0°M	0°58'48
minimum elong max. Earth dist. evening rise	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43 5403 Aug 15 00:28 5403 Aug 17 18:45 5403 Aug 30 14:07 5403 Sep 07 14:56 5403 Sep 18 02:22	20° N 49'49 20° N 37'12 22° N 17'23 0° M 5° M 52'07 0° Ω 12° Ω 14'54 24° Ω 32'56	1°17′21 1.32134 AU	superior conj minimum elong max. Earth dist.	5404 Jul 22 17:28 5404 Jul 25 07:39 5404 Jul 25 05:29 5404 Jul 24 22:48 5404 Aug 01 03:00 5404 Aug 05 17:19 5404 Aug 24 11:59	0° N 5° N42'31 5° N30'33 4° N53'34 20° N33'55 0° M 0° № 0° 11'57	0°58'48
minimum elong max. Earth dist. evening rise desc. node evening max el	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43 5403 Aug 15 00:28 5403 Aug 17 18:45 5403 Aug 30 14:07 5403 Sep 07 14:56 5403 Sep 18 02:22 5403 Sep 25 10:30	20° N 49'49 20° N 37'12 22° N 17'23 0° M 5° M 52'07 0° Ω 12° Ω 14'54 24° Ω 32'56 0° M	1°17′21 1.32134 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	5404 Jul 22 17:28 5404 Jul 25 07:39 5404 Jul 25 05:29 5404 Jul 24 22:48 5404 Aug 01 03:00 5404 Aug 05 17:19 5404 Aug 24 11:59 5404 Aug 24 08:04	0° N 5° N42'31 5° N30'33 4° N53'34 20° N33'55 0° M 0° \$\Omega\$11'57 0° \$\Omega\$	0°58'48 1.31895 AU
minimum elong max. Earth dist. evening rise desc. node	5403 Aug 10 19:50 5403 Aug 10 17:33 5403 Aug 11 11:43 5403 Aug 15 00:28 5403 Aug 17 18:45 5403 Aug 30 14:07 5403 Sep 07 14:56 5403 Sep 18 02:22	20° N 49'49 20° N 37'12 22° N 17'23 0° M 5° M 52'07 0° Ω 12° Ω 14'54 24° Ω 32'56	1°17′21 1.32134 AU	superior conj minimum elong max. Earth dist. evening rise	5404 Jul 22 17:28 5404 Jul 25 07:39 5404 Jul 25 05:29 5404 Jul 24 22:48 5404 Aug 01 03:00 5404 Aug 05 17:19 5404 Aug 24 11:59	0° N 5° N42'31 5° N30'33 4° N53'34 20° N33'55 0° M 0° № 0° 11'57	0°58'48 1.31895 AU

evening set	5404 Sep 19 15:00	11° ≏ 39'31		min. Earth dist.	5405 Sep 05 06:23	20°m22'29	0.57276 AU
min. Earth dist.	5404 Sep 23 15:40	9° ≏ 04'43	0.59252 AU	inferior conj	5405 Sep 08 04:11	18° Mp 26'56	
inferior conj	5404 Sep 26 21:27	6° £ 36′20		minimum elong	5405 Sep 08 05:24	18° m) 24'55	
minimum elong	5404 Sep 27 02:54	6° £ 25'54		morning rise	5405 Sep 16 08:23	14° m) 17'17	3 1021
morning rise	5404 Oct 04 17:00	2° £ 04'17		direct	5405 Sep 18 21:55	13° Mp 58'20	
direct	5404 Oct 07 01:30	1° £ 45'05		morning max el	5405 Sep 27 23:39	18° m) 15'15	19°11'29
morning max el	5404 Oct 14 22:59	5° £ 35'00	18°23'20	asc. node	5405 Oct 02 03:18	23° Mp 01'05	1, 112,
asc. node	5404 Oct 15 06:15	5° £ 52'48	10 23 20	use. Houe	5405 Oct 06 17:09	0∘ ⊽	
	5404 Oct 30 09:07	0°M		morning set	5405 Oct 14 21:50	15° ≏ 22'34	
morning set	5404 Oct 30 22:04	1°ML01'53		<i>5 8 1 1 1 1 1 1 1 1 1 1</i>	5405 Oct 22 06:51	0°M	
C							
superior conj	5404 Nov 09 00:22	18° M ₊14'32	1°15'49	superior conj	5405 Oct 23 02:36	1°M35'57	1°33'21
minimum elong	5404 Nov 09 04:04	18°MJ31'34	1°15'24	minimum elong	5405 Oct 23 05:06	1°M48'04	1°33'10
	5404 Nov 15 14:09	0° ∡ ¹		max. Earth dist.	5405 Oct 29 17:38	14°M02'06	1.38455 AU
max. Earth dist.	5404 Nov 16 12:28	1° ∡ ³36′20	1.40568 AU	evening rise	5405 Nov 02 12:21	20°M44'57	
desc. node	5404 Nov 20 11:13	8° ⊀ 16'28		desc. node	5405 Nov 07 08:14	28°M56'01	
evening rise	5404 Nov 20 23:57	9° ₰ 09'09			5405 Nov 07 23:48	0°⊀	
	5404 Dec 04 08:33	ರ∘ರ			5405 Nov 28 09:52	8°0	
evening max el	5404 Dec 25 11:57	27° る 24'32	23°30'46	evening max el	5405 Dec 08 01:03	11° る 07'29	24°49'02
	5404 Dec 28 07:27	0° ≈		retrograde	5405 Dec 19 17:00	17° る 54'23	
retrograde	5405 Jan 05 03:06	3° ≈ 41′22		evening set	5405 Dec 25 07:15	15° る 34'36	
evening set	5405 Jan 10 03:58	1° ≈ 36′18		asc. node	5405 Dec 29 02:33	11° る 25'03	
asc. node	5405 Jan 11 05:30	0° ≈ 36'57		min. Earth dist.	5405 Dec 29 20:50	10° る 25'41	0.67641 AU
	5405 Jan 11 19:30	30°₹ ⋜		inferior conj	5405 Dec 30 20:12	9° る 08'28	0°35'02
min. Earth dist.	5405 Jan 15 01:33	25° る 53'11	0.68062 AU	minimum elong	5405 Dec 30 19:21	9° ⋜ 11'16	0°34'42
inferior conj	5405 Jan 15 13:57	25° る 10'42	1°25'15	morning rise	5406 Jan 05 07:35	3° ⋜ 09'08	
minimum elong	5405 Jan 15 12:08	25° る 16'53	1°24'35	direct	5406 Jan 08 23:11	1° る 52'34	
morning rise	5405 Jan 20 20:15	19° る 04'42		morning max el	5406 Jan 16 09:21	6° る 03'26	19°48'31
direct	5405 Jan 25 00:42	17° る 26'36		greatest brilliancy	5406 Jan 29 12:29	23° る 16'17	-0.6m
morning max el	5405 Feb 02 08:50		20°58'18	desc. node	5406 Feb 03 07:30	0° ≈ 25'45	
	5405 Feb 08 23:16	0° ≈			5406 Feb 03 00:40	0° ≈	
desc. node	5405 Feb 16 10:30	10°≈18′29		morning set	5406 Feb 11 10:36	12°≈50'40	
	5405 Mar 01 14:29	0° ∀		P. 4. P.	5406 Feb 22 10:02	0°) (5,402	1 11077 177
morning set	5405 Mar 04 14:22	4°) (39'18	1 40747 411	max. Earth dist.	5406 Feb 22 23:38	0°) 54′02	1.44277 AU
max. Earth dist.	5405 Mar 12 12:23	17° 升 17′24	1.42747 AU		5406 F 1 27 21 45	00 1/ 47/57	2005107
	5405 Mar. 10, 12,47	200 1122	2000110	superior conj	5406 Feb 27 21:45	8°) (47'57 8°) (30'36	
superior conj	5405 Mar 19 13:47	29° 米 01'22 29° 米 08'48		minimum elong	5406 Feb 27 17:28	0°Υ	2-04-57
minimum elong	5405 Mar 19 15:32 5405 Mar 20 03:35	29°π08'48 0° Υ	2°08'17		5406 Mar 12 15:56	1°Υ09'23	
avanina riaa	5405 Mar 20 03:35 5405 Mar 31 06:32	0° γ 19° Υ 30'31		evening rise asc. node	5406 Mar 13 08:15 5406 Mar 27 01:49	23° Y 36'02	
evening rise	5405 Apr 06 04:21	0° 8		evening max el	5406 Mar 31 14:00	29° Υ 08'15	18°13'06
asc. node	5405 Apr 09 04:47	5° 8 07'00		evening max er	5406 Apr 01 11:59	0° 8	18 13 00
evening max el	5405 Apr 17 01:03	15° 8 50'41	18°06'39	retrograde	5406 Apr 06 23:42	2° 8 32'13	
retrograde	5405 Apr 23 15:28	19° 8 13'29	10 0037	evening set	5406 Apr 09 21:48	1° 8 47'23	
evening set	5405 Apr 26 07:14	18° 8 40'37		evening sec	5406 Apr 12 11:40	30°RY	
inferior conj	5405 May 02 20:48	13° 8 41'37	3°01'19	inferior conj	5406 Apr 15 23:13	26°Υ28'56	3°26'27
minimum elong	5405 May 02 23:35	13° 8 34'50	3°00'47	minimum elong	5406 Apr 16 00:27	26° Y 25'31	3°26'19
min. Earth dist.	5405 May 06 00:52	10° 8 37'47	0.61163 AU	min. Earth dist.	5406 Apr 18 14:01	23° Y 36'59	0.63266 AU
morning rise	5405 May 09 13:54	7° 8 45'25		morning rise	5406 Apr 22 01:58	20° Y 21′04	
desc. node	5405 May 15 09:45	5° 8 31'27		direct	5406 Apr 28 22:18	17° Ƴ 41'55	
direct	5405 May 16 07:10	5° 8 29'06		desc. node	5406 May 02 06:46	18° Ƴ 15'48	
morning max el	5405 May 30 12:47	13° 8 26'49	27°50'27	morning max el	5406 May 12 20:20	25° Ƴ 41'37	27°46'16
-	5405 Jun 12 18:11	$\Pi^{\circ}0$		-	5406 May 16 19:32	9° 8	
	5405 Jun 30 01:42	0°€			5406 Jun 06 06:41	$\Pi^{\circ}0$	
morning set	5405 Jul 02 10:14	4°5546'16		morning set	5406 Jun 16 08:04	18° Ⅱ 48'18	
asc. node	5405 Jul 06 04:02	12° © 38'54		max. Earth dist.	5406 Jun 21 13:21	29° Ⅲ 35′18	1.32718 AU
max. Earth dist.	5405 Jul 08 08:39	17° © 23'47	1.32087 AU		5406 Jun 21 18:00	0 \circ \odot	
				asc. node	5406 Jun 23 01:04	2° © 45'51	
superior conj	5405 Jul 09 18:22	20°528'15	0°36'44				
minimum elong	5405 Jul 09 16:47	20° © 19'37	0°36'23	superior conj	5406 Jun 24 02:06	5° 5 00'36	0°10'50
	5405 Jul 14 02:32	0 $^{\circ}$ Ω		minimum elong	5406 Jun 24 01:35	4° 9 57'47	0°10'42
evening rise	5405 Jul 16 14:01	5° Ω 21′03		behind sun begin	5406 Jun 23 21:38	4° © 36'28	
	5405 Jul 29 13:18	0° m		behind sun end	5406 Jun 24 05:32	5° © 19'06	
desc. node	5405 Aug 11 09:00	16° m 49'25		evening rise	5406 Jul 01 01:48	20°506'35	
evening max el	5405 Aug 11 18:56	17° m 13'29	24°58'44		5406 Jul 05 21:14	0 $^{\circ}\Omega$	
retrograde	5405 Aug 25 16:51	24° m 15'05		evening max el	5406 Jul 24 07:14	27° Ω 37'03	23°22'45
evening set	5405 Aug 31 04:43	23° m 06'39			5406 Jul 27 00:02	0° m	

desc. node	5406 Jul 29 06:00	1° m 36'48		evening max el	5407 Jul 05 23:21	8° Ω 01'16	21°46'52
retrograde	5406 Aug 06 19:49	4° m 23′32		desc. node	5407 Jul 16 03:02	14° Ω 00′30	
evening set	5406 Aug 10 19:57	3° Mp 48'24		retrograde	5407 Jul 18 12:05	14° Ω 13'48	
min. Earth dist.	5406 Aug 17 16:40	0°m/38'10	0.55701 AU	evening set	5407 Jul 21 03:26	13° Ω 58′06	
	5406 Aug 18 18:42	30° ₽ Ω		inferior conj	5407 Jul 30 10:52	9° Ω 56'10	-3°56'44
inferior conj	5406 Aug 19 14:49	29° Ω 30'15	-5°03'33	minimum elong	5407 Jul 30 01:57	10° Ω 08'38	3°54'20
minimum elong	5406 Aug 19 09:29	29° Ω 38'08		min. Earth dist.	5407 Jul 30 02:34	10° Ω 07'47	0.54855 AU
morning rise	5406 Aug 28 01:24	25° Ω 37'34		morning rise	5407 Aug 08 01:51	6° Ω 05'07	
direct	5406 Aug 30 22:57	25° Ω 17'10		direct	5407 Aug 11 09:47	5° Ω 40'50	
	5406 Sep 10 07:28	0° m)		morning max el	5407 Aug 23 13:59	11°Ω23'43	21°51'47
morning max el	5406 Sep 10 12:46	ران 0° الله 12'14	20°21'44	asc. node	5407 Sep 05 21:20	29°Ω45'05	21 31 47
asc. node	5406 Sep 19 00:19	11° Mp 02'40	20 21 44	asc. nouc	5407 Sep 06 00:40	0° m)	
	•	0° £ 00'11		marning act	*	0 mg/ 14° mg/47'45	
morning set	5406 Sep 29 03:39			morning set	5407 Sep 13 13:12	14 11/4/43	
	5406 Sep 29 03:37	0∘ ⊽			5407.6 20.10.05	00.001100	1040150
	54060 + 06 17 40	15000500	1041155	superior conj	5407 Sep 20 18:05	0° £ 01'09	1°42'52
superior conj	5406 Oct 06 17:49	15° Ω 35'28	1°41'55	minimum elong	5407 Sep 20 17:37	29° m 58'42	1°42'53
minimum elong	5406 Oct 06 18:46	15° ≏ 40'16			5407 Sep 20 17:52	0∘ ⊽	
max. Earth dist.	5406 Oct 12 00:24	26° ♀ 00'35	1.36429 AU	max. Earth dist.	5407 Sep 24 13:28	7° £ 53'10	1.34696 AU
	5406 Oct 14 02:52	0° M		evening rise	5407 Sep 28 23:16	16° ≏ 36′06	
evening rise	5406 Oct 15 21:28	3° M ₁7'27			5407 Oct 06 07:04	0° M ₊	
desc. node	5406 Oct 25 05:15	19° M 25′39		desc. node	5407 Oct 12 02:16	9° ™ 39'27	
	5406 Oct 31 23:39	0° ∡ ¹			5407 Oct 26 09:59	0° ∡ ¹	
evening max el	5406 Nov 20 13:38	24° ∡ ′51′33	25°58'42	evening max el	5407 Nov 03 02:18	8° ∡ ¹29'39	26°52'25
	5406 Nov 26 23:25	0° ට		retrograde	5407 Nov 16 05:58	15° ∡ ¹47'02	
retrograde	5406 Dec 03 02:09	1° る 58'50		evening set	5407 Nov 22 21:48	13° ∡ °07'56	
	5406 Dec 08 13:06	30°₽ ∡ 7		min. Earth dist.	5407 Nov 26 21:41	9° ₹ 09'20	0.65723 AU
evening set	5406 Dec 09 05:53	29° х 26′53		inferior conj	5407 Nov 28 19:57	6° ₹ ¹55'10	
min. Earth dist.	5406 Dec 13 12:18	24° ×7 52'59	0.66860 AU	minimum elong	5407 Nov 28 22:17	6° ∡ 748'25	1°20'49
inferior conj	5406 Dec 14 22:53	23°×7'04'54		asc. node	5407 Dec 02 20:35	2° × ⁷ 43'20	1 20 19
minimum elong	5406 Dec 14 23:27	23°×04'34 23°×703'10		morning rise	5407 Dec 04 23:42	1° x 16'21	
C	5406 Dec 15 23:34	23 x 03 10 21° x 48'34	0 20 40	direct	5407 Dec 07 18:53	0° ₹ 33′20	
asc. node							10015110
morning rise	5406 Dec 20 17:31	17° 🗷 14'32		morning max el	5407 Dec 14 07:15	4° ∡ *03'48	18°15'18
direct	5406 Dec 23 21:53	16° ₹ 16'38	10052145		5407 Dec 31 23:54	0°る	
morning max el	5406 Dec 30 17:30	20° ∡ *01'47	18°53'47	morning set	5408 Jan 02 07:21	2°る07'32	
	5407 Jan 07 14:24	0°ಕ		desc. node	5408 Jan 08 01:30	11° る 24'49	
desc. node	5407 Jan 21 04:30	20° ろ 49'38				_	
morning set	5407 Jan 21 19:01	21° る 46'26		superior conj	5408 Jan 17 11:16	26° る 20'44	
	5407 Jan 27 01:15	0° ≈		minimum elong	5408 Jan 17 03:43	25° ප් 51'04	
max. Earth dist.	5407 Feb 05 16:24	15° ≈ 04'46	1.45163 AU	max. Earth dist.	5408 Jan 19 11:27	29° る 29'57	1.45317 AU
					5408 Jan 19 19:07	0° ≈	
superior conj	5407 Feb 07 07:51	17° ≈ 39'51	-1°42'12	evening rise	5408 Feb 02 15:51	21° ≈ 39'41	
minimum elong	5407 Feb 06 22:40	17° ≈ 03'42	1°41'23		5408 Feb 08 00:04	0° ∀	
	5407 Feb 15 02:40	0° ∀		greatest brilliancy	5408 Feb 14 05:21	9°) 36′34	-0.7m
evening rise	5407 Feb 22 11:24	11° ∺ 51'17		evening max el	5408 Feb 26 10:03	26° ₩ 07'05	19°20'02
	5407 Mar 05 18:05	$0^{\circ}\mathbf{\Upsilon}$		asc. node	5408 Feb 28 19:52	28° ¥ 16′39	
asc. node	5407 Mar 13 22:51	11° Y 23'23			5408 Mar 03 04:02	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	5407 Mar 15 01:44	12° Y 35'21	18°37'55	retrograde	5408 Mar 04 12:23	0° Ƴ 10′09	
retrograde	5407 Mar 21 15:52	16° Ƴ 13'26		•	5408 Mar 05 20:08	30° ₹ ₩	
evening set	5407 Mar 24 20:22	15° Ƴ 15'52		evening set	5408 Mar 08 00:05	28° ¥ 59′03	
inferior conj	5407 Mar 30 13:21	9° Y ′39'42	3°31'56	inferior conj	5408 Mar 13 11:45	23° ₭ 07'17	3°22'26
minimum elong	5407 Mar 30 13:03	9° Y '40'37	3°31'55	minimum elong	5408 Mar 13 10:17	23°) 12'04	3°22'16
min. Earth dist.	5407 Apr 01 12:43	7° Y 16'37	0.65064 AU	min. Earth dist.	5408 Mar 14 19:57	21°) 22'50	0.66461 AU
morning rise	5407 Apr 05 05:10	3° Υ 26'18	0.02001710	morning rise	5408 Mar 18 20:09	16° ¥ 52'08	0.00101710
direct	5407 Apr 11 21:05	0° Υ 37'05		direct	5408 Mar 25 02:24	14° X 05'37	
desc. node	•	3° Υ 16'26		desc. node		19° H 59'22	
	5407 Apr 19 03:46	8° Υ 28'54	27907147		5408 Apr 05 00:47		26902120
morning max el	5407 Apr 25 06:23		2/30/46	morning max el	5408 Apr 06 16:17	21°) 35'34 0° °	26 02 30
	5407 May 12 00:12	0° B			5408 Apr 13 23:56		
	5407 May 29 15:24	0°II			5408 May 04 05:29	0°8	
morning set	5407 May 30 20:34	2° Ⅱ 19'54		morning set	5408 May 12 19:54	15° 8 10'08	
max. Earth dist.	5407 Jun 04 09:05	11° Ⅱ 18'31	1.33805 AU	max. Earth dist.	5408 May 16 17:21	22° 8 32'12	1.35353 AU
					5408 May 20 12:17	Π $^{\circ}$ 0	
superior conj	5407 Jun 08 04:52	19° Ⅱ 13'49					
minimum elong	5407 Jun 08 05:48	19° Ⅱ 18'43	0°17'30	superior conj	5408 May 22 00:13	3° Ⅱ 01'13	-0°47'36
asc. node	5407 Jun 09 22:06	22° Ⅱ 51'34		minimum elong	5408 May 22 02:51	3° Ⅱ 14'38	0°47'06
				1	5400 N 6 0 10 00	12° Ⅱ 52'10	
	5407 Jun 13 06:39	0 \circ \odot		asc. node	5408 May 26 19:09	12-1132-10	
evening rise	5407 Jun 13 06:39 5407 Jun 15 12:31	0°ಲೆ 4°ಲೆ44'45		asc. node evening rise	5408 May 26 19:09 5408 May 29 20:08	12° Д 32°10 19° Д 09'20	
evening rise					•		

	5409 I 17 02:20	100657115	20022140	1-	5400 Mars 12 16:11	20TI 42145	
evening max el retrograde	5408 Jun 17 02:30 5408 Jun 28 01:09	18°957'15 24°918'57	20°23'48	asc. node	5409 May 13 16:11 5409 May 30 04:17	2°∏42'45 0° ©	
evening set	5408 Jun 30 00:27	24 \$1837 24°\$09'15		evening max el	5409 May 30 04.17 5409 May 30 18:13	0°935'04	10010124
desc. node	5408 Jul 02 00:03	24 \$0913 23°\$41'09		retrograde	5409 Jun 08 23:24	5°905'27	19 1924
inferior conj	5408 Jul 09 04:58	20°911'41	-2°08'22	evening set	5409 Jun 10 22:22	4°954'09	
minimum elong	5408 Jul 08 23:00	20°920'24	2°06'14	desc. node	5409 Jun 18 21:05	1°9508'58	
min. Earth dist.	5408 Jul 10 14:16	19°S23'09	0.54951 AU	inferior conj	5409 Jun 19 11:04	0°9546'04	-0°10'24
morning rise	5408 Jul 17 20:29	16°901'36	0.5 1551 110	minimum elong	5409 Jun 19 10:36	0°9546'48	0°10'16
direct	5408 Jul 21 19:58	15° 5 27'23		transit middle	5409 Jun 19 10:36	0°5946'48	0°10'16
morning max el	5408 Aug 04 06:23	21°959'01	23°34'13	transit begin	5409 Jun 19 07:39	0°951'40	
5 5	5408 Aug 11 06:27	0°N		transit end	5409 Jun 19 13:34	0°5541'56	
asc. node	5408 Aug 22 18:23	18° Ω 58'26			5409 Jun 20 14:58	30°RⅡ	
morning set	5408 Aug 28 00:39	29° Ω 40'18		min. Earth dist.	5409 Jun 22 04:19	28° ∏ 59'14	0.55989 AU
_	5408 Aug 28 04:22	0° m)		morning rise	5409 Jun 27 19:57	26° Ⅱ 02'44	
				direct	5409 Jul 02 16:43	25° Ⅱ 08'38	
superior conj	5408 Sep 04 00:27	14° m /44'10	1°37'23		5409 Jul 14 04:45	0 \circ \odot	
minimum elong	5408 Sep 03 22:55	14° m 35'57	1°37'16	morning max el	5409 Jul 16 19:47	2° © 18'55	25°16'03
max. Earth dist.	5408 Sep 06 11:24	19° m 59'31	1.33368 AU		5409 Aug 05 06:03	$0^{\circ}\Omega$	
	5408 Sep 11 07:35	0∘ 亚		asc. node	5409 Aug 09 15:26	8° Ω 33'48	
evening rise	5408 Sep 11 13:44	0° ≏ 30'46		morning set	5409 Aug 12 12:17	14° Ω 31′50	
desc. node	5408 Sep 27 23:20	29° ≏ 30'31					
	5408 Sep 28 07:01	0°M₊		superior conj	5409 Aug 19 10:27	29° Ω 35'50	1°26'19
evening max el	5408 Oct 15 14:28	21°M52'29	27°22'54	minimum elong	5409 Aug 19 08:18	29° Ω 24'05	1°26'03
retrograde	5408 Oct 29 03:49	29°M10'54			5409 Aug 19 14:51	0° ™	
evening set	5408 Nov 05 04:32	26°M32'36		max. Earth dist.	5409 Aug 20 17:03	2°m/23'19	1.32468 AU
min. Earth dist.	5408 Nov 08 22:55	23°M07'41	0.64246 AU	evening rise	5409 Aug 26 13:16	14° m 50'17	
inferior conj	5408 Nov 11 09:02	20°M34'18			5409 Sep 03 08:24	0∘ ত	
minimum elong	5408 Nov 11 13:18	20°M23'02	2°23'49	desc. node	5409 Sep 14 20:22	18° ≏ 48'32	
morning rise	5408 Nov 17 23:26	15°M09'55			5409 Sep 23 10:38	0°M	
asc. node	5408 Nov 18 17:36	14°M53'37		evening max el	5409 Sep 28 00:04	4°M46'33	27°23'57
direct	5408 Nov 20 11:49	14°M37'50	15052140	retrograde	5409 Oct 11 18:44	12°M00'52	
morning max el	5408 Nov 26 23:51	18°M02'52	1/°53'48	evening set	5409 Oct 18 22:47	9°M33'44	0.62461.411
	5408 Dec 05 17:24	0°⊀ ⁷		min. Earth dist.	5409 Oct 22 14:05	6°M37'41	0.62461 AU
morning set	5408 Dec 14 00:14	13° オ 52'39 0° る		inferior conj	5409 Oct 25 11:14 5409 Oct 25 17:08	3°M54'50 3°M40'54	
desc. node	5408 Dec 23 15:24 5408 Dec 24 22:33	0 3 2° る 07'29		minimum elong	5409 Oct 25 17.08 5409 Oct 30 04:04	30°R Ω	3 20 33
desc. Hode	3406 Dec 24 22.33	2 00/29		morning rise	5409 Nov 01 13:13	30 K== 28° Ω 48'18	
superior conj	5408 Dec 27 04:09	5°₹45'09	-0°15'37	direct	5409 Nov 03 21:35	28° £ 23'29	
minimum elong	5408 Dec 27 04:09	5° る 37'49		asc. node	5409 Nov 05 14:39	28° ⊆ 37'03	
behind sun begin	5408 Dec 26 23:07	5° る 24'50	0 13 17	use. Houe	5409 Nov 08 11:30	0°M	
behind sun end	5408 Dec 27 05:32	5° る 50'48		morning max el	5409 Nov 10 16:16	1° M 51'14	17°50'09
max. Earth dist.	5409 Jan 01 06:08	13°る53'08	1.44737 AU	morning set	5409 Nov 26 15:40	26°M42'31	-, -, -,
	5409 Jan 11 14:08	0° ≈			5409 Nov 28 12:02	0° ⊼	
evening rise	5409 Jan 12 04:42	0°≈55'58					
C	5409 Jan 31 17:38	0° ∀		superior conj	5409 Dec 07 22:07	16° ∡ °23′18	0°27'26
evening max el	5409 Feb 08 13:30	9°) 41′08	20°17'27	minimum elong	5409 Dec 08 00:38	16° ∡ ³33'57	0°27'05
asc. node	5409 Feb 14 16:54	14°) €01'37		desc. node	5409 Dec 11 19:37	22° ∡ °54′00	
retrograde	5409 Feb 16 10:34	14° ∺ 17'41		max. Earth dist.	5409 Dec 14 22:12	27° ₹ 58'52	1.43490 AU
evening set	5409 Feb 20 06:45	12° ¥ 52'11			5409 Dec 16 04:13	5°0	
inferior conj	5409 Feb 25 15:36	6°) 46′59	3°01'10	evening rise	5409 Dec 22 16:24	10° る 16'49	
minimum elong	5409 Feb 25 13:25	6° ∺ 54'23	3°00'43		5410 Jan 04 18:24	0° ≈	
min. Earth dist.	5409 Feb 26 09:47	5° ∺ 45'15	0.67435 AU	evening max el	5410 Jan 22 11:31	23° ≈ 16'49	21°27'07
morning rise	5409 Mar 02 19:52	0°) 32′30		retrograde	5410 Jan 31 08:19	28° ≈ 32'16	
	5409 Mar 03 10:59	30° R ≈		asc. node	5410 Feb 01 13:55	28° ≈ 24'08	
direct	5409 Mar 08 13:15	27°≈59'01		evening set	5410 Feb 04 14:33	26° ≈ 51'29	
	5409 Mar 14 07:12	0° ∀		inferior conj	5410 Feb 09 22:34	20° ≈ 35'38	
morning max el	5409 Mar 20 00:58	4° ₩ 51'28	24°40'08	minimum elong	5410 Feb 09 20:10	20°≈43'57	
desc. node	5409 Mar 22 21:48	7° ¥ 56′16		min. Earth dist.	5410 Feb 10 04:04	20°≈16'33	0.67986 AU
	5409 Apr 08 09:20	0°Υ 27° Υ 04100		morning rise	5410 Feb 15 01:37	14°≈23'22	
morning set	5409 Apr 25 00:56	27° Y 04'00		direct	5410 Feb 20 04:35	12°≈09'40	22011102
may Earth 3:-4	5409 Apr 26 16:33	0° 8	1 27212 411	morning max el	5410 Mar 02 10:07	18°≈13'54	25 11 02
max. Earth dist.	5409 Apr 28 15:44	3° 8 33'25	1.37312 AU	desc. node	5410 Mar 09 18:51	26° ≈ 46'21 0°) €	
superior conj	5409 May 05 08:58	16° 8 13'49	-1°17'06		5410 Mar 12 06:10 5410 Apr 01 12:06	0° Υ	
minimum elong	5409 May 05 13:14	16° 8 34'33		morning set	5410 Apr 06 05:48	7° Υ 46'33	
minimum ciong	5409 May 12 07:39	0° Ⅱ	1 102/	max. Earth dist.	5410 Apr 10 11:19	14° Υ 58'49	1.39502 AU
evening rise	5409 May 13 22:13	3° Ⅱ 12'51		Durin dist.	2.1.0.1pr 10 11.17	1 50 47	1.5,502 110
	J	J 44 J 1					

superior conj	5410 Apr 18 03:11	28° Ƴ 42'10	1942!26	superior conj	5411 Mar 31 01:57	10° Y 13'50	2002126
minimum elong	5410 Apr 18 03:17	28° $\Upsilon 42^{\circ}$ 10° 29° $\Upsilon 05'$ 42°		minimum elong	5411 Mar 31 01:57	10 γ 13 30 10° γ 30'53	2°02'23
minimum elong	5410 Apr 18 08.17	0° 8	1 42 34	evening rise	5411 Mai 31 03.31 5411 Apr 10 21:30	10 γ 30 33 29° Υ 45'27	2 02 23
evening rise	5410 Apr 18 20:00 5410 Apr 27 15:55	16° 8 48'05		evening rise	5411 Apr 11 00:40	0° 8	
asc. node	5410 Apr 30 13:15	22° 8 18'57		aga mada	5411 Apr 17 10:16	11° 8 34'42	
asc. node	•	0°II		asc. node		25° 8 39'32	10011126
	5410 May 04 18:01		10025110	evening max el	5411 Apr 27 05:09	_	18°11'26
evening max el	5410 May 13 20:15	12° Ⅱ 52'07	18°35'19	retrograde	5411 May 04 03:07	29° 8 08'41	
retrograde	5410 May 21 15:58	16° Ⅱ 43'48		evening set	5411 May 06 14:56	28° 8 42'09	2025120
evening set	5410 May 23 20:54	16° Ⅲ 26'24	1005150	inferior conj	5411 May 13 13:19	23° 8 54'35	2°35'39
inferior conj	5410 May 31 13:33	11° II 59'23	1°27'53	minimum elong	5411 May 13 16:40	_	2°34'50
minimum elong	5410 May 31 16:28	11° I I53'46	1°26'56	min. Earth dist.	5411 May 16 22:03	20° 8 54'27	0.59886 AU
min. Earth dist.	5410 Jun 03 22:07	9° Ⅱ 25'29	0.57747 AU	morning rise	5411 May 20 15:46	18° 8 08'42	
desc. node	5410 Jun 05 18:06	8° Ⅱ 09'25		desc. node	5411 May 23 15:07	16° 8 45'03	
morning rise	5410 Jun 08 08:46	6° Ⅱ 40'47		direct	5411 May 27 02:57	16° 8 10'34	
direct	5410 Jun 14 03:21	5° Ⅱ 16'53		morning max el	5411 Jun 10 11:31	24° 8 03'29	27°35'49
morning max el	5410 Jun 28 12:27	12° ∏ 53'15	26°41'08		5411 Jun 15 20:29	0°П	
	5410 Jul 11 23:42	0 \circ \odot			5411 Jul 05 05:13	0 \circ \odot	
morning set	5410 Jul 27 22:31	29° © 17'35		morning set	5411 Jul 12 05:36	13° © 52'03	
asc. node	5410 Jul 27 12:30	28° © 24'52		asc. node	5411 Jul 14 09:33	18° © 26'04	
	5410 Jul 28 06:32	0 $^{\circ}$ Ω		max. Earth dist.	5411 Jul 18 14:34	27° © 35'18	1.31926 AU
superior conj	5410 Aug 03 22:07	14° Ω 29'56		superior conj	5411 Jul 19 09:41	29° © 20'36	0°50'07
minimum elong	5410 Aug 03 19:49	14° Ω 17'15	1°09'59	minimum elong	5411 Jul 19 07:42	29° © 09'43	0°49'44
max. Earth dist.	5410 Aug 04 03:23	14° Ω 59'04	1.31990 AU		5411 Jul 19 16:49	0 \circ Ω	
evening rise	5410 Aug 10 19:03	29° Ω 26'18		evening rise	5411 Jul 26 04:43	14° Ω 11'25	
	5410 Aug 11 01:27	0° m			5411 Aug 03 02:17	0° m	
	5410 Aug 27 13:25	0∘ ত		desc. node	5411 Aug 19 14:24	24° m 47'05	
desc. node	5410 Sep 01 17:24	7° ≏ 20'16		evening max el	5411 Aug 23 00:50	28° Mp 21'46	25°47'21
evening max el	5410 Sep 10 04:15	16° ≏ 58'47	26°51'43		5411 Aug 24 20:24	0∘ ರ	
retrograde	5410 Sep 24 01:46	24° ഫ 08'30		retrograde	5411 Sep 05 23:45	5° £ 27'57	
evening set	5410 Oct 01 00:18	22° ≏ 04'14		evening set	5411 Sep 12 04:16	3° ჲ 57'20	
min. Earth dist.	5410 Oct 04 18:19	19° ≏ 26'34	0.60452 AU	min. Earth dist.	5411 Sep 16 13:03	1° ഫ 21'08	0.58383 AU
inferior conj	5410 Oct 07 23:10	16° ≏ 47'59	-4°26'04		5411 Sep 18 10:40	30°R, Mp	
minimum elong	5410 Oct 08 05:29	16° ≙ 34'54	4°24'36	inferior conj	5411 Sep 19 17:22	29° m 04'19	-5°07'27
morning rise	5410 Oct 15 12:40	12° ≙ 02'47		minimum elong	5411 Sep 19 21:28	28° ₩ 56'57	5°07'00
direct	5410 Oct 17 20:14	11° ≏ 42'11		morning rise	5411 Sep 27 16:58	24° Mp 42'26	
asc. node	5410 Oct 23 11:43	13° ≏ 51'00		direct	5411 Sep 30 03:11	24° Mp 23′37	
morning max el	5410 Oct 25 05:16	15° ≏ 21'00	18°05'28	morning max el	5411 Oct 08 11:32	28° Mp 23'16	18°41'12
	5410 Nov 04 08:31	0°M		asc. node	5411 Oct 10 08:46	0° ჲ 22'39	
morning set	5410 Nov 09 23:17	10°ML18'07			5411 Oct 10 00:48	0∘ ⊽	
				morning set	5411 Oct 24 18:16	24° £ 25'50	
superior conj	5410 Nov 19 17:44	28°M16'00	1°01'11		5411 Oct 27 14:48	0° M	
minimum elong	5410 Nov 19 21:38	28°M33'22	1°00'41				
	5410 Nov 20 17:08	0° ∡ ¹		superior conj	5411 Nov 02 10:26	11° M 10'24	1°24'26
max. Earth dist.	5410 Nov 27 09:34	11° ∡ ³31'07	1.41726 AU	minimum elong	5411 Nov 02 13:43	11°M25'50	1°24'07
desc. node	5410 Nov 28 16:38	13° ∡ ¹40'40		max. Earth dist.	5411 Nov 09 15:52	24°M19'34	1.39667 AU
evening rise	5410 Dec 02 17:45	20° ∡ 17'11			5411 Nov 12 22:40	0° ∡ ¹	
	5410 Dec 08 22:01	8°0		evening rise	5411 Nov 13 17:00	1° √ 17'41	
	5410 Dec 30 03:08	0° ≈		desc. node	5411 Nov 15 13:40	4° ∡ ¹24'22	
evening max el	5411 Jan 05 04:34	6°≈53'55	22°44'43		5411 Dec 02 06:05	ರ°0	
retrograde	5411 Jan 15 04:05	12° ≈ 49'30		evening max el	5411 Dec 18 18:21	20° ප 34'17	24°04'36
asc. node	5411 Jan 19 10:58	11° ≈ 14'35		retrograde	5411 Dec 29 20:32	27° る 05'40	
evening set	5411 Jan 19 21:50	10°≈53'01		evening set	5412 Jan 04 03:03	24° る 53'55	
inferior conj	5411 Jan 25 06:41	4° ≈ 29'43	1°51'08	asc. node	5412 Jan 06 07:59	22° る 39'48	
minimum elong	5411 Jan 25 04:31	4° ≈ 37'12	1°50'24	min. Earth dist.	5412 Jan 08 20:58		0.67923 AU
min. Earth dist.	5411 Jan 25 00:32	4°≈50'59		inferior conj	5412 Jan 09 14:07	18° る 27'17	1°04'44
	5411 Jan 28 18:28	30°R₹	-	minimum elong	5412 Jan 09 12:40	18° る 32'13	1°04'10
morning rise	5411 Jan 30 11:07	28° ට 21'10		morning rise	5412 Jan 14 22:20	12° る 23'56	
direct	5411 Feb 03 23:31	26° ප 30'10		direct	5412 Jan 18 21:00	10° る 55'30	
	5411 Feb 11 02:35	0°≈		morning max el	5412 Jan 26 19:09	15° る 26'55	20°26'57
morning max el	5411 Feb 12 23:11	1°≈44'44	21°44'20	0	5412 Feb 07 06:56	0°≈	/
desc. node	5411 Feb 24 15:52	16°≈14'06		desc. node	5412 Feb 11 12:53	6°≈09'21	
acce. node	5411 Mar 06 04:05	0°) €		morning set	5412 Feb 24 07:09	25°≈28'22	
morning set	5411 Mar 17 06:11	17°) 08'15			5412 Feb 27 04:53	0° ∀	
max. Earth dist.	5411 Mar 23 10:54	27° H 13'28	1.41644 AU	max. Earth dist.	5412 Mar 04 17:18		1.43462 AU
Darm dist.	5411 Mar 25 10:54	0° Υ	1511710	Durin dist.	5.12./mi 07 1/.10	10 /(20 40	1.15 102 110
	2.1.1			superior conj	5412 Mar 11 00:39	20°) 39'16	-2°09'13
				1			-

minimum elong	5412 Mar 11 00:06	20° ¥ 36'59	2°09'12		5413 Jan 30 17:57	0° ≈	
	5412 Mar 16 13:42	0°Υ		morning set	5413 Feb 02 05:29	3° ≈ 49'45	
evening rise	5412 Mar 23 10:40	11° Y 55'22		max. Earth dist.	5413 Feb 15 06:36	24°≈11'44	1.44734 AU
asc. node	5412 Apr 03 07:17	0° 8 23'19					
	5412 Apr 03 01:18	0°8		superior conj	5413 Feb 18 22:16	29° ≈ 59'36	-1°57'50
evening max el	5412 Apr 09 17:29	8° 8 48'33	18°07'06	minimum elong	5413 Feb 18 15:21	29° ≈ 32'02	1°57'26
retrograde	5412 Apr 16 04:54	12° 8 10'28			5413 Feb 18 22:22	0°) €	
evening set	5412 Apr 18 23:15	11° 8 32'49		evening rise	5413 Mar 05 03:03	23°) €09'59	
inferior conj	5412 Apr 25 07:11	6° 8 25'29	3°14'43		5413 Mar 09 05:21	0 ° Υ	
minimum elong	5412 Apr 25 09:21	6° 8 19'55	3°14'23	asc. node	5413 Mar 21 04:17	18° Ƴ 36′21	
min. Earth dist.	5412 Apr 28 06:12	3° 8 23'51	0.62080 AU	evening max el	5413 Mar 24 06:17	22° Y 11'31	18°21'35
morning rise	5412 May 01 17:47	0° 8 23'04		retrograde	5413 Mar 30 16:52	25° Ƴ 39'54	
	5412 May 02 07:06	30° ₹Ƴ		evening set	5413 Apr 02 17:37	24° Y 49'49	
direct	5412 May 08 13:17	27° Y 55'24		inferior conj	5413 Apr 08 15:03	19° Y 23'57	
desc. node	5412 May 09 12:07	27° Y 58'07		minimum elong	5413 Apr 08 15:36	19° Ƴ 22'21	3°30'48
	5412 May 15 07:25	0°B		min. Earth dist.	5413 Apr 10 23:32	16° Y 42′20	0.64071 AU
morning max el	5412 May 22 16:32	5° 8 56'02	27°53'12	morning rise	5413 Apr 14 12:43	13° Y 13′15	
	5412 Jun 09 20:15	0°Ⅲ		direct	5413 Apr 21 08:07	10° Y 27'47	
morning set	5412 Jun 25 07:31	28° ∏ 08′26		desc. node	5413 Apr 26 09:08	11° Y 44'42	
	5412 Jun 26 05:18	0°€		morning max el	5413 May 05 01:20	18° Y 25'59	27°33'43
asc. node	5412 Jun 30 06:34	8° © 32'23			5413 May 14 19:00	0°8	
max. Earth dist.	5412 Jun 30 22:37	9° © 58'53	1.32295 AU		5413 Jun 02 17:58	0°II	
				morning set	5413 Jun 09 01:49	11° ∏ 59′29	
superior conj	5412 Jul 02 19:22	14°501'46	0°26'07	max. Earth dist.	5413 Jun 13 23:45	21° ∏ 59'01	1.33118 AU
minimum elong	5412 Jul 02 18:11	13°955'19	0°25'51		5412 1 17 01 10	200 T 27147	0000150
evening rise	5412 Jul 09 16:17	28°958'46		superior conj	5413 Jun 17 01:19	28° Ⅱ 27'47	
	5412 Jul 10 03:48	0° N		minimum elong	5413 Jun 17 01:21	28° ∏ 28'01	0°01'00
	5412 Jul 26 22:58	0° m, 01100	24919157	behind sun begin	5413 Jun 16 19:58	27° Ⅲ 59'15 28° Ⅲ 56'50	
evening max el	5412 Aug 03 14:43	9° Mp 01'09	24°18'57	behind sun end	5413 Jun 17 06:45	28°П40'00	
desc. node	5412 Aug 05 11:25	10° Mp 42'25		asc. node	5413 Jun 17 03:36 5413 Jun 17 18:33	28°Щ40'00 0° ©	
retrograde evening set	5412 Aug 17 10:33 5412 Aug 22 07:41	15° m 58'55 15° m 05'57		evening rise	5413 Jun 24 03:52	13° 9 542'36	
min. Earth dist.	5412 Aug 28 01:38	-	0.56532 AU	evening rise	5413 Jul 02 09:07	0°Ω	
inferior conj	5412 Aug 30 15:25	10° Mp 35'18		evening max el	5413 Jul 16 03:51	19° Ω 22'13	220/11/12
minimum elong	5412 Aug 30 13:55		5°18'03	desc. node	5413 Jul 23 08:24	24°Ω33'34	22 41 12
morning rise	5412 Sep 07 22:36	6° Mp 34'10	3 10 03	retrograde	5413 Jul 29 08:28	25°Ω56'20	
direct	5412 Sep 10 15:00	6° Mp 14'59		evening set	5413 Aug 01 17:04	25°Ω31'37	
morning max el	5412 Sep 20 07:40	10° Mp 47'04	19°38'41	min. Earth dist.	5413 Aug 09 11:43	22°Ω06'03	0.55240 AU
asc. node	5412 Sep 26 05:48	17° Mp 55'46	1, 30 11	inferior conj	5413 Aug 10 18:52	21° Ω 21'37	
use. Houe	5412 Oct 03 08:06	0∘ ⊽		minimum elong	5413 Aug 10 11:17	21° Ω 32'28	4°40'14
morning set	5412 Oct 07 20:56	8° £ 54'49		morning rise	5413 Aug 19 07:30	17° Ω 31'33	
8				direct	5413 Aug 22 09:08	17° Ω 09'49	
superior conj	5412 Oct 15 18:47	24° £ 50'04	1°37'59	morning max el	5413 Sep 02 15:35	22° Ω 24'55	20°57'43
minimum elong	5412 Oct 15 20:37	24° ≏ 59'12	1°37'53	S	5413 Sep 09 02:07	0° m/y	
C	5412 Oct 18 10:17	0°M		asc. node	5413 Sep 13 02:51	6° Mp 16'35	
max. Earth dist.	5412 Oct 21 20:34	6°M29'29	1.37567 AU	morning set	5413 Sep 22 04:37	23° Mp 37'39	
evening rise	5412 Oct 25 14:43	13° M 19'16		-	5413 Sep 25 06:03	0∘ ⊽	
desc. node	5412 Nov 01 10:41	25°M00'31					
	5412 Nov 04 12:50	0° ∡		superior conj	5413 Sep 29 14:17	9° ჲ 02'07	1°43'10
	5412 Nov 26 05:38	8°0		minimum elong	5413 Sep 29 14:36	9° ჲ 03'44	1°43'10
evening max el	5412 Nov 30 07:01	4° ප 18'06	25°20'10	max. Earth dist.	5413 Oct 04 05:34	18° ≏ 22'59	1.35658 AU
retrograde	5412 Dec 12 08:41	11° る 15'39		evening rise	5413 Oct 08 07:32	26° £ 13'25	
evening set	5412 Dec 18 04:35	8° る 50'22			5413 Oct 10 08:35	0° M	
min. Earth dist.	5412 Dec 22 15:01	3° る 56'00	0.67348 AU	desc. node	5413 Oct 19 07:42	15°M24'17	
asc. node	5412 Dec 23 05:01	3° る 10'48			5413 Oct 28 23:10	0° ∡	
inferior conj	5412 Dec 23 19:06	2° る 25'07	0°11'56	evening max el	5413 Nov 12 19:52	18° ₰ 01'28	26°23'57
minimum elong	5412 Dec 23 18:48	2° る 26'06	0°11'49	retrograde	5413 Nov 25 15:34	25° ≯ 13'46	
transit middle	5412 Dec 23 18:48	2° る 26'06	0°11'49	evening set	5413 Dec 02 00:36	22° ₹ 38'24	
transit begin	5412 Dec 23 16:53	2° ප 32'16		min. Earth dist.	5413 Dec 06 04:18	18° √ 19'14	0.66422 AU
transit end	5412 Dec 23 20:42	2°る19'56		inferior conj	5413 Dec 07 19:41	16° √ 19'42	
	5412 Dec 25 17:13	30°₹ ⋌		minimum elong	5413 Dec 07 20:57	16° √ 15'51	0°45'45
morning rise	5412 Dec 29 09:18	26° ₹ 29'06		asc. node	5413 Dec 10 02:03	13° ∡ 40′55	
direct	5413 Jan 01 19:49	25° 🖈 20'57	1002011	morning rise	5413 Dec 13 17:57	10° ₹ 33'36	
morning max el	5413 Jan 08 23:01	29° ₹ 19'53	19°23'14	direct	5413 Dec 16 18:11	9° × ⁷ 42'24	10025115
,	5413 Jan 09 14:41	0°る	0.7	morning max el	5413 Dec 23 09:46	13° ∡ 20′03	18°35'17
greatest brilliancy	5413 Jan 22 03:43	16°る53'51	-U./m		5414 Jan 04 14:05	0°る 12° ス 10'27	
desc. node	5413 Jan 28 09:55	26° る 24'28		morning set	5414 Jan 13 00:51	13° る 19'37	

desc. node	5414 Jan 15 06:56	16° る 53'43		direct	5414 Nov 30 13:56	23°M55'22	
dese. node	5414 Jan 23 14:30	0°≈		morning max el	5414 Dec 07 01:07	27°M22'06	18°04'03
		* -			5414 Dec 09 09:34	0° %	
superior conj	5414 Jan 29 03:01	8° ≈ 39'42	-1°26'52	morning set	5414 Dec 25 02:00	24° х 19′22	
minimum elong	5414 Jan 28 17:39	8° ≈ 03'00	1°25'52	Č	5414 Dec 28 12:45	0°ರ	
max. Earth dist.	5414 Jan 29 00:48	8° ≈ 31'01	1.45322 AU	desc. node	5415 Jan 02 03:59	7° る 33'00	
	5414 Feb 11 15:59	0° ∀					
evening rise	5414 Feb 13 20:07	3° ¥ 27'15		superior conj	5415 Jan 08 09:59	17° る 33'31	-0°42'38
greatest brilliancy	5414 Feb 22 10:25	17°) 07'41	-0.8m	minimum elong	5415 Jan 08 04:45	17° る 12'45	0°41'54
	5414 Mar 03 00:16	$0^{\circ}\Upsilon$		max. Earth dist.	5415 Jan 11 20:43	23° る 00'16	1.45162 AU
evening max el	5414 Mar 07 16:51	5° Ƴ 41'12	18°53'56		5415 Jan 16 07:54	0° ≈	
asc. node	5414 Mar 08 01:19	6° Y 02′20		evening rise	5415 Jan 24 16:43	12° ≈ 59′24	
retrograde	5414 Mar 14 11:08	9° Ƴ 28'17			5415 Feb 04 18:49	0° ∀	
evening set	5414 Mar 17 18:40	8° Y 24'55		greatest brilliancy	5415 Feb 07 02:08	3° ∺ 27'36	-0.7m
inferior conj	5414 Mar 23 09:03	2° Y 41'59	3°29'29	evening max el	5415 Feb 18 23:16	19°) 14′18	19°42'42
minimum elong	5414 Mar 23 08:12	2° Y 44'39	3°29'26	asc. node	5415 Feb 22 22:22	22° ∺ 28'42	
min. Earth dist.	5414 Mar 25 01:50	0° Ƴ 34'40	0.65710 AU	retrograde	5415 Feb 26 08:42	23°) € 30'34	
	5414 Mar 25 13:14	30° ₹ ₩		evening set	5415 Mar 01 23:55	22°) 13′14	
morning rise	5414 Mar 28 21:19	26°) €27'48		inferior conj	5415 Mar 07 10:05	16° 升 15′14	
direct	5414 Apr 04 09:46	23° ∺ 38'18		minimum elong	5415 Mar 07 08:15	16° ∺ 21'19	
desc. node	5414 Apr 13 06:10	27° ∺ 32'31		min. Earth dist.	5415 Mar 08 12:03	14°) (49′06	0.66929 AU
	5414 Apr 16 01:51	0° Υ		morning rise	5415 Mar 12 16:22	10° ∺ 00'17	
morning max el	5414 Apr 17 11:20	1° Y 21'56	26°42'49	direct	5415 Mar 18 17:21	7° ∺ 18'34	
	5414 May 08 21:11	$_{0\circ}$ 8		morning max el	5415 Mar 30 20:49	14°) €33'46	25°29'01
morning set	5414 May 23 09:12	25° 8 14'29		desc. node	5415 Mar 31 03:13	14° ∺ 50′03	
	5414 May 25 20:26	$\Pi^{\circ}0$			5415 Apr 12 11:28	0 ° $\mathbf{\gamma}$	
max. Earth dist.	5414 May 27 14:41	3° Ⅱ 28'32	1.34409 AU		5415 May 01 17:06	$0^{\circ}S$	
				morning set	5415 May 06 01:23	7° 8 42'02	
superior conj	5414 Jun 01 01:14	12° Ⅱ 30′52		max. Earth dist.	5415 May 09 18:36	14° 8 34'49	1.36147 AU
minimum elong	5414 Jun 01 02:53	12° Ⅱ 39′23	0°29'57				
asc. node	5414 Jun 04 00:36	18° Ⅱ 43'54		superior conj	5415 May 15 16:28	26° 8 04'00	
evening rise	5414 Jun 08 13:31	28° Ⅱ 15'44		minimum elong	5415 May 15 19:50	26° 8 20'50	0°59'43
	5414 Jun 09 09:37	ი _ა ფ			5415 May 17 15:28	$\Pi^{\circ 0}$	
evening max el	5414 Jun 28 00:07	29° 9 57'14	21°09'31	asc. node	5415 May 21 21:39	8° Ⅱ 40'31	
	5414 Jun 28 01:15	0 $^{\circ}\Omega$		evening rise	5415 May 23 19:05	12° Ⅲ 32'04	
retrograde	5414 Jul 09 21:28	5° Ω 48'51			5415 Jun 02 00:45	0°©	
desc. node	5414 Jul 10 05:25	5° Ω 48'35		evening max el	5415 Jun 10 08:31	11° © 09'29	19°53'54
evening set	5414 Jul 12 03:58	5° Ω 36'49		retrograde	5415 Jun 20 13:10	16°508'59	
inferior conj	5414 Jul 21 12:11	1° Ω 38'47		evening set	5415 Jun 22 11:00	15°959'15	
minimum elong	5414 Jul 21 03:49	1° Ω 50'32		desc. node	5415 Jun 27 02:27	14°924'21	1015105
min. Earth dist.	5414 Jul 21 21:55		0.54783 AU	inferior conj	5415 Jul 01 09:47	11°958'17	
	5414 Jul 24 12:06	30°R≌		minimum elong	5415 Jul 01 06:12	12°503'45	
morning rise	5414 Jul 30 04:07	27°542'21		min. Earth dist.	5415 Jul 03 10:14	10°5944'33	0.55284 AU
direct	5414 Aug 02 18:12	27° © 14'41 0° Ω		morning rise direct	5415 Jul 09 23:29 5415 Jul 14 07:18	7° © 35'19 6° © 54'18	
marring may al	5414 Aug 11 07:32		22024124				24010140
morning max el	5414 Aug 15 12:15		22°34'24	morning max el	5415 Jul 28 02:37	13° © 43'26 0° Ω	24 18 40
asc. node	5414 Aug 30 23:53 5414 Sep 02 11:43	25° Ω 13'19 0° m)		asc. node	5415 Aug 09 18:17 5415 Aug 17 20:56	14° Ω 36'52	
morning set	5414 Sep 06 15:13	8°Mp28'14		morning set	5415 Aug 17 20:50 5415 Aug 22 02:57	23° Ω 21'06	
morning set	3414 Sep 00 13.13	0 11/2014		morning set	5415 Aug 25 05:11	0° m)	
superior conj	5414 Sep 13 17:28	23° m/36'06	1°41'17		JT13 Aug 23 UJ.11	Ų ių	
minimum elong	5414 Sep 13 16:30	23° Mp 30'58		superior conj	5415 Aug 29 01:37	8° m 23'35	1°33'20
minimum ciong	5414 Sep 16 18:32	0∘ ⊽	1 41 14	minimum elong	5415 Aug 28 23:47	8° Mp 13'35	
max. Earth dist.	5414 Sep 16 22:41	ი∘ ഫ 21'33	1.34087 AU	max. Earth dist.	5415 Aug 31 00:16	12° m/ 35'54	1.32930 AU
evening rise	5414 Sep 21 15:12	9° £ 48'45	1.54007 AC	evening rise	5415 Sep 05 09:52	23° Mp 54'46	1.32/30 AC
5 (Cimig 1150	5414 Oct 02 19:09	0°M		0,0111115 1150	5415 Sep 08 11:25	ე° ი	
desc. node	5414 Oct 06 04:44	5°M29'40		desc. node	5415 Sep 23 01:46	25° ≏ 08'12	
	5414 Oct 24 18:08	0° ₹			5415 Sep 26 10:02	0°M	
evening max el	5414 Oct 26 08:41		27°08'35	evening max el	5415 Oct 08 19:54	14° M .47'11	27°27'10
retrograde	5414 Nov 08 16:44	8° × 753'12		retrograde	5415 Oct 22 11:41	22°M04'20	
evening set	5414 Nov 15 12:59	6° ₹ 13′28		evening set	5415 Oct 29 14:53	19°M29'02	
min. Earth dist.	5414 Nov 19 10:27	2° × ⁷ 29'35	0.65142 AU	min. Earth dist.	5415 Nov 02 07:23	16°ML17'41	0.63524 AU
inferior conj	5414 Nov 21 13:43	0° ∡ 106'32		inferior conj	5415 Nov 04 22:33	13°MJ38'39	
minimum elong	5414 Nov 21 16:52	29°M57'44		minimum elong	5415 Nov 05 03:36	13°M25'56	
- 3	5414 Nov 21 16:03	30°RM.		morning rise	5415 Nov 11 17:52	8°M21'45	
asc. node	5414 Nov 26 23:07	25°M04'29		asc. node	5415 Nov 13 20:10	7° M 53'44	
morning rise	5414 Nov 27 21:50	24°MJ33'25		direct	5415 Nov 14 04:11	7°ML53'11	
-							

morning max el	5415 Nov 20 18:07	11° M L18'06	17°50'04	morning rise	5416 Oct 25 02:09	21° £ 51'20	
morning max ci	5415 Dec 03 10:03	0° ∡ 7	17 30 04	direct	5416 Oct 27 09:36	21° ⊆ 28'48	
morning set	5415 Dec 07 05:17	6° ∡ ³34'32		asc. node	5416 Oct 30 17:13	22° Ω 17'02	
C				morning max el	5416 Nov 03 09:33	25° ჲ 00'19	17°54'13
superior conj	5415 Dec 19 12:56	27° ∡ ¹28'10	0°03'34		5416 Nov 07 12:41	0° M	
minimum elong	5415 Dec 19 13:19	27° х 29'44	0°03'32	morning set	5416 Nov 19 04:16	19° M 45'45	
behind sun begin	5415 Dec 19 03:53	26° ∡ 750′54			5416 Nov 24 20:09	0° ∡ ¹	
behind sun end	5415 Dec 19 22:44	28° ≯ 08'28					
desc. node	5415 Dec 20 01:01	28° ∡ 17'51		superior conj	5416 Nov 29 18:13	8° ₹ 39'25	0°43'00
P 4 F	5415 Dec 21 01:59	0°る	1 11200 177	minimum elong	5416 Nov 29 21:39	8° ₹ 54'15	0°42'32
max. Earth dist.	5415 Dec 25 14:44	7°る18'45 22°る12'47	1.44280 AU	desc. node	5416 Dec 05 22:03	19°× 7 04'54	1.42794 AU
evening rise	5416 Jan 04 03:06 5416 Jan 09 05:31	0°≈		max. Earth dist.	5416 Dec 07 04:19 5416 Dec 12 16:01	0°る	1.42/94 AU
	5416 Jan 30 11:13	0 ≈ 0° ∺		evening rise	5416 Dec 12 10:01 5416 Dec 13 19:02	1°る46'32	
evening max el	5416 Feb 02 00:18	2°) (48'30	20°45'42	evening rise	5417 Jan 01 17:54	0°≈	
asc. node	5416 Feb 09 19:25	7°) 40′18	20 13 12	evening max el	5417 Jan 14 19:59	16° ≈ 24'14	21°59'25
retrograde	5416 Feb 10 07:03	7°) (41'34		retrograde	5417 Jan 24 04:12	21° ≈ 57'24	
evening set	5416 Feb 14 07:17	6° ₩ 09'38		asc. node	5417 Jan 26 16:27	21° ≈ 24′02	
inferior conj	5416 Feb 19 15:32	29° ≈ 59'13	2°49'08	evening set	5417 Jan 28 15:03	20° ≈ 10′10	
minimum elong	5416 Feb 19 13:12	0°) 07'14	2°48'35	inferior conj	5417 Feb 02 23:14	13° ≈ 50′36	2°14'37
	5416 Feb 19 15:19	30° R ≈		minimum elong	5417 Feb 02 20:53	13° ≈ 58'47	2°13'54
min. Earth dist.	5416 Feb 20 04:07	29° ≈ 15'58	0.67720 AU	min. Earth dist.	5417 Feb 02 23:44	13° ≈ 48'51	0.68101 AU
morning rise	5416 Feb 24 18:56	23° ≈ 45′20		morning rise	5417 Feb 08 02:32	7° ≈ 39'27	
direct	5416 Mar 01 06:09	21° ≈ 19'53		direct	5417 Feb 12 23:14	5° ≈ 35'07	
morning max el	5416 Mar 12 05:35	27°≈53'12	24°02'26	morning max el	5417 Feb 22 15:52	11°≈18′25	22°33'13
1 1	5416 Mar 14 05:36	0° ∀		desc. node	5417 Mar 03 21:17	22°≈19'18	
desc. node	5416 Mar 17 00:15	3° 光 11'43 0° Ƴ			5417 Mar 09 11:06	0° ₩ 29° ₩ 15'31	
morning set	5416 Apr 05 04:11 5416 Apr 16 20:53	19° Y 07'26		morning set	5417 Mar 28 13:48 5417 Mar 29 00:38	29°π15'31 0° Υ	
max. Earth dist.	5416 Apr 20 14:48	25° Υ 41'43	1.38226 AU	max. Earth dist.	5417 Mai 29 00:38 5417 Apr 02 10:43		1.40434 AU
max. Earth dist.	5416 Apr 23 00:02	0° 8	1.36220 AU	max. Earth dist.	3417 Apr 02 10.43	1 1 23 12	1.40434 AU
	541071pt 25 00.02	° O		superior conj	5417 Apr 10 06:04	21° Y 03'55	-1°52'45
superior conj	5416 Apr 27 19:32	8° 8 58'33	-1°28'53	minimum elong	5417 Apr 10 10:59		1°52'21
minimum elong	5416 Apr 28 00:18		1°28'14		5417 Apr 15 02:49	0°8	
evening rise	5416 May 06 18:00	26° 8 24'25		evening rise	5417 Apr 20 07:00	9° 8 44'11	
asc. node	5416 May 07 18:42	28° 8 25'29		asc. node	5417 Apr 24 15:43	17° 8 53'27	
	5416 May 08 14:05	$\Pi^{\circ}0$			5417 May 01 20:56	Π °0	
evening max el	5416 May 23 04:57	23° Ⅱ 04'33	18°58'11	evening max el	5417 May 06 10:23	5° Ⅱ 35'42	18°22'47
retrograde	5416 May 31 18:53	27° Ⅱ 16'55		retrograde	5417 May 13 19:20	9° Ⅱ 15'31	
evening set	5416 Jun 02 19:47	27° I 103'38		evening set	5417 May 16 03:13	8° ∏ 54'34	
inferior conj	5416 Jun 11 00:03	22° II 48'12	0°34'43	inferior conj	5417 May 23 11:44	4° Ⅱ 19'12	
minimum elong	5416 Jun 11 01:25 5416 Jun 12 23:28	22° Ⅱ 45'47 21° Ⅱ 24'35	0°34'13	minimum elong	5417 May 23 15:08	4° Ⅱ 12'12 1° Ⅱ 30'53	1°59'27
desc. node min. Earth dist.	5416 Jun 12 23:28 5416 Jun 14 01:56	20° I I39'06	0.56655 AU	min. Earth dist.	5417 May 26 22:12 5417 May 29 00:02	1°Д3053	0.58628 AU
morning rise	5416 Jun 19 03:42	20 ∏ 3900 17° ∏ 48'56	0.30033 AU	morning rise	5417 May 30 23:55	28° 8 47'45	
direct	5416 Jun 24 09:52	16° I I43'11		desc. node	5417 May 30 20:30	28° 8 52'19	
morning max el	5416 Jul 08 17:00	24° I 106'58	25°55'21	direct	5417 Jun 06 02:41	27° 8 08'52	
	5416 Jul 14 01:49	0ංම 			5417 Jun 14 12:32	0°II	
	5416 Aug 01 14:46	$0^{\circ}\Omega$		morning max el	5417 Jun 20 12:01	4° Ⅱ 53'54	27°08'43
asc. node	5416 Aug 03 17:59	4° Ω 19'49			5417 Jul 08 23:20	0 \circ \odot	
morning set	5416 Aug 05 14:12	8° Ω 11'14		morning set	5417 Jul 20 23:16	22° © 52'18	
				asc. node	5417 Jul 21 15:00	24° © 15'19	
superior conj	5416 Aug 12 12:35	23° Ω 17'37			5417 Jul 24 07:09	$0^{\circ}\Omega$	
minimum elong	5416 Aug 12 10:19	23° Ω 05'09	1°19'48				
max. Earth dist.	5416 Aug 13 08:11	25° Ω 05'32	1.32203 AU	superior conj	5417 Jul 28 00:23	8° Ω 10'42	
	5416 Aug 15 14:02	0° m/		minimum elong	5417 Jul 27 22:11		1°01'53
evening rise	5416 Aug 19 12:21	8° m/22'30		max. Earth dist.	5417 Jul 27 19:07	7° Ω 41'33	1.31904 AU
daga rada	5416 Aug 30 20:56	0° ი		evening rise	5417 Aug 03 20:01	23° Ω 02'56	
desc. node evening max el	5416 Sep 08 22:47 5416 Sep 20 03:20	14° ♀ 08'55 27° ♀ 24'41	27°14'24		5417 Aug 07 04:38 5417 Aug 25 01:38	0 ்⊽ 0∘மி	
evening max ei	5416 Sep 20 03:20 5416 Sep 23 02:52	2/° 32 24'41 0° M	∠/ 14 ∠ 4	desc. node	5417 Aug 25 01:38 5417 Aug 26 19:47	0° 1 2 2° 1 5'33	
retrograde	5416 Oct 03 23:44	4°M237'56		evening max el	5417 Sep 02 04:32	2 = 13 33 9° £ 16′28	26°28'08
evening set	5416 Oct 11 02:40	2°M18'46		retrograde	5417 Sep 16 03:17	16° £ 24'46	_0 _0 00
, <u>6</u> 000	5416 Oct 14 04:54	30°R ≏		evening set	5417 Sep 10 03:17 5417 Sep 22 19:34	14° £ 34'03	
min. Earth dist.	5416 Oct 14 17:57	29° £ 32'16	0.61626 AU	min. Earth dist.	5417 Sep 26 18:06	11° ≏ 59'01	0.59562 AU
inferior conj	5416 Oct 17 19:08	26° ≏ 48'55		inferior conj	5417 Sep 29 23:54	9° م 27'29	-4°46'20
minimum elong	5416 Oct 18 01:26	26° ≏ 34'49	3°52'27	minimum elong	5417 Sep 30 05:40	9° ≏ 16'11	4°45'17

morning rise	5417 Oct 07 17:56	4° £ 51'51		direct	5418 Sep 22 01:20	16° m 52'58	
direct	5417 Oct 10 02:03	4° <u>₽</u> 32'21		morning max el	5418 Sep 30 22:12	21° Mp 04'57	19°02'59
asc. node	5417 Oct 10 02:05 5417 Oct 17 14:15	8° ₾ 05'23		asc. node	5418 Oct 04 11:17	25° Mp 04'12	17 02 37
morning max el	5417 Oct 17 14:13 5417 Oct 17 20:03	8° ⊆ 19'11	18°18'00	use. Houe	5418 Oct 07 21:20	0° ⊡	
morning must er	5417 Oct 31 19:34	0°M	10 10 00	morning set	5418 Oct 17 15:51	ა — 17° ჲ 53'58	
morning set	5417 Nov 02 17:15	3°M36'25		morning sec	5418 Oct 23 18:49	0°M	
C							
superior conj	5417 Nov 11 23:26	20°M59'50		superior conj	5418 Oct 25 23:20		1°31'17
minimum elong	5417 Nov 12 03:14		1°11'51	minimum elong	5418 Oct 26 02:03	4°M27'40	1°31'05
	5417 Nov 17 00:19	0° ∡ ″		max. Earth dist.	5418 Nov 01 18:41	16°M54'57	1.38766 AU
max. Earth dist.	5417 Nov 19 13:10	4° ₹ 22'50	1.40878 AU	evening rise	5418 Nov 05 14:15	23°M38'13	
desc. node	5417 Nov 22 19:04	9° √ 50'43			5418 Nov 09 08:29	0° ∡ ¹	
evening rise	5417 Nov 24 05:15	12° ∡ 11'37		desc. node	5418 Nov 09 16:04	0° ∡ 31'25	
	5417 Dec 05 14:19	5°0			5418 Nov 29 09:43	0°る	24027144
avanina may al	5417 Dec 28 10:13 5417 Dec 28 11:33	0°≈ 0°≈03'20	23°18'50	evening max el	5418 Dec 11 00:45 5418 Dec 22 13:10	13°る45'42 20°る28'47	24°37'44
evening max el retrograde	5418 Jan 07 22:37	0 ≈03 20 6°≈14'37	23 18 30	retrograde evening set	5418 Dec 28 01:28	20 32847 18° る 10'55	
evening set	5418 Jan 12 21:38	0 ≈1437 4°≈11'47		asc. node	5418 Dec 31 10:31	18 3 10 33	
asc. node	5418 Jan 13 13:29	3°≈36'18		min. Earth dist.	5419 Jan 01 16:07	14 3 52 33	0.67727 AU
asc. node	5418 Jan 16 16:04	30°Rる		inferior conj	5419 Jan 02 13:53	12 3 57 00	0.07727 AC 0°43'05
inferior conj	5418 Jan 18 07:17	27° る 46'44	1°32'19	minimum elong	5419 Jan 02 12:52	11° ठ 47'58	0°42'40
minimum elong	5418 Jan 18 05:22	27°る53'20	1°31'36	morning rise	5419 Jan 08 00:24	5° ਰ 44'14	0 .2 .0
min. Earth dist.	5418 Jan 17 20:30	28° る 23'47	0.68097 AU	direct	5419 Jan 11 17:48	4° ට 24'41	
morning rise	5418 Jan 23 13:02	21° る 40'03		morning max el	5419 Jan 19 06:48	8° ට 40'21	19°58'02
direct	5418 Jan 27 19:33	19° る 58'34		C	5419 Feb 04 06:04	0° ≈	
morning max el	5418 Feb 05 07:27	24° る 53'24	21°09'51	desc. node	5419 Feb 05 15:19	2° ≈ 04'20	
	5418 Feb 09 20:15	0° ≈		morning set	5419 Feb 14 23:20	16° ≈ 17'21	
desc. node	5418 Feb 18 18:19	12° ≈ 00'00		_	5419 Feb 23 18:06	0°)	
	5418 Mar 02 21:24	0°) €		max. Earth dist.	5419 Feb 25 23:20	3°) €31′25	1.44088 AU
morning set	5418 Mar 08 02:41	8° ₩ 06'02					
max. Earth dist.	5418 Mar 15 13:09	20°) €01'23	1.42477 AU	superior conj	5419 Mar 03 06:52	12°) €05'20	-2°06'49
	5418 Mar 21 12:51	0 ° Υ		minimum elong	5419 Mar 03 03:35	11° 米 51′57	2°06'43
					5419 Mar 14 00:32	0 ° $\mathbf{\gamma}$	
superior conj	5418 Mar 22 19:09	2° Y ′09'04		evening rise	5419 Mar 16 10:57	4° Ƴ 09'44	
minimum elong	5418 Mar 22 21:35	2° Υ 19'29	2°07'13	asc. node	5419 Mar 29 09:47	25° Y 33′09	
evening rise	5418 Apr 03 06:10	22° Y 22'36			5419 Apr 01 18:04	0° 8	
	5418 Apr 07 12:04	0° 8		evening max el	5419 Apr 03 10:05	1° 8 49'19	18°10'56
asc. node	5418 Apr 11 12:45	6° 8 58'44	10007114	retrograde	5419 Apr 09 19:58	5° 8 12'26	
evening max el	5418 Apr 19 21:14	18° 8 33'56	18°07'14	evening set	5419 Apr 12 17:05	4° ႘ 29'30 30° ℝ Υ	
retrograde evening set	5418 Apr 26 13:11 5418 Apr 29 03:59	21° 8 57'49 21° 8 26'35		inferior conj	5419 Apr 18 02:50 5419 Apr 18 20:03	30° ₹ 1 29° Y 13'45	3°23'58
inferior conj	5418 May 05 19:42	16° 8 30'25	2°55'24	minimum elong	5419 Apr 18 21:32	29 Υ 1343 29° Υ 09'44	3°23'49
minimum elong	5418 May 05 22:40	16° 8 23'20	2°54'47	min. Earth dist.	5419 Apr 21 13:02	26°Υ18'46	0.62968 AU
min. Earth dist.	5418 May 09 01:11	13° 8 26'53	0.60838 AU	morning rise	5419 Apr 25 00:44	23° Υ 07'01	0.02700 AC
morning rise	5418 May 12 15:11	10° 8 36'38	0.00030710	direct	5419 May 01 21:02	20° Υ 30'32	
desc. node	5418 May 17 17:31	8° 8 32'04		desc. node	5419 May 04 14:32	20° Υ 52'59	
direct	5418 May 19 07:10	8° 8 24'54		morning max el	5419 May 15 20:39	28° Ƴ 30'47	27°49'12
morning max el	5418 Jun 02 13:36	16° 8 21'16	27°47'51	C	5419 May 17 07:12	0°8	
-	5418 Jun 13 18:32	$\Pi^{\circ}0$			5419 Jun 07 14:28	$\Pi^{\circ}0$	
	5418 Jul 01 13:06	0 \circ \odot		morning set	5419 Jun 19 03:22	21° Ⅲ 25′18	
morning set	5418 Jul 05 04:22	7° © 19′09			5419 Jun 23 07:09	0ಂಣ	
asc. node	5418 Jul 08 12:01	14° 5 018'46		max. Earth dist.	5419 Jun 24 11:14	2°528'59	1.32593 AU
max. Earth dist.	5418 Jul 11 05:28	20° © 13'33	1.32034 AU	asc. node	5419 Jun 25 09:04	4° 5 25'46	
superior conj	5418 Jul 12 11:21	22° © 57'30	0°40'22	superior conj	5419 Jun 26 19:40	7° 5 32'21	0°14'57
minimum elong	5418 Jul 12 09:39	22°548'11	0°40'01	minimum elong	5419 Jun 26 18:57	7°93221	0°14'47
minimum ciong	5418 Jul 15 16:08	0°Ω	0 4001	behind sun begin	5419 Jun 26 16:59	7°917'48	0 1447
evening rise	5418 Jul 19 06:43	7° Ω 49'28		behind sun end	5419 Jun 26 20:56	7°939'13	
0 , 011111g 1100	5418 Jul 30 18:06	0° Mp		evening rise	5419 Jul 03 18:32	22°935'47	
desc. node	5418 Aug 13 16:47	19° m) 06'30		- B	5419 Jul 07 07:59	0° Ω	
evening max el	5418 Aug 14 22:03	20° m/ 18'57	25°11'57		5419 Jul 26 16:06	0° mp	
retrograde	5418 Aug 28 20:16	27° m/21'41		evening max el	5419 Jul 27 10:31	0° mp 45'40	23°37'26
evening set	5418 Sep 03 12:56	26° m 07'30		desc. node	5419 Jul 31 13:47	4° m) 13'04	
min. Earth dist.	5418 Sep 08 09:38	23° m 26'02	0.57551 AU	retrograde	5419 Aug 10 01:24	7° m 35'54	
inferior conj	5418 Sep 11 09:36	21°M 24'33	-5°16'48	evening set	5419 Aug 14 07:05	6° Mp 56′28	
minimum elong	5418 Sep 11 11:41	21°Mp21'01	5°16'41	min. Earth dist.	5419 Aug 20 20:22	3° m 50'58	0.55893 AU
morning rise	5418 Sep 19 12:41	17° m 11'51		inferior conj	5419 Aug 22 23:08	2° m 35'07	-5°09'08

minimum elong	5419 Aug 22 18:46 5419 Aug 27 15:48	2° Mp41′40 30° R Ω	5°08'41	evening max el desc. node	5420 Jul 08 01:36 5420 Jul 17 10:49	11° Ω 07'59 17° Ω 00'45	22°00'39
morning rise	5419 Aug 31 08:54	28° Ω 40'47		retrograde	5420 Jul 20 19:08	17° Ω 26′56	
direct	5419 Sep 03 05:01	28° Ω 20'47		evening set	5420 Jul 23 14:22	17° Ω 09'25	
	5419 Sep 09 07:07	0° ™		inferior conj	5420 Aug 01 20:47	13° Ω 05'42	
morning max el	5419 Sep 13 13:15	3° Mp 09′27	20°09'58	minimum elong	5420 Aug 01 12:00		4°07'57
asc. node	5419 Sep 21 08:19	12°M 58'56		min. Earth dist.	5420 Aug 01 06:20		0.54922 AU
	5419 Sep 30 15:25	0∘ ⊽		morning rise	5420 Aug 10 11:13	9° Ω 15'30	
morning set	5419 Oct 01 20:59	2° ≏ 29'50		direct	5420 Aug 13 17:19	8° Ω 52'04	
	5410.0	100 0 00111	1041100	morning max el	5420 Aug 25 16:12	14° Ω 27'51	21°37'18
superior conj	5419 Oct 09 12:57	18° Ω 09'44	1°41'08	1	5420 Sep 06 07:20	0° M)	
minimum elong	5419 Oct 09 14:08	18° £ 15'41	1°41'05	asc. node	5420 Sep 07 05:22	1° Mp 35'57	
max. Earth dist.	5419 Oct 15 00:44 5419 Oct 15 14:17	28° £ 55'40 0° ™	1.36712 AU	morning set	5420 Sep 15 06:07	17°Mp16'14 0°⊶2	
evening rise	5419 Oct 18 20:35	6°M03'14			5420 Sep 21 07:04	0 ==	
desc. node	5419 Oct 18 20:35 5419 Oct 27 13:06	21°M02'58		superior conj	5420 Sep 22 12:07	2° ₽ 32'12	1°43'11
dese. Hode	5419 Nov 02 05:07	0° √		minimum elong	5420 Sep 22 11:51		1°43'10
evening max el	5419 Nov 23 13:18	27° ∡ 129'47	25°49'06	max. Earth dist.	5420 Sep 26 12:32	2 — 30 47 10° ⊆ 47'13	1.34931 AU
e vening max er	5419 Nov 26 07:28	0°る	25 17 00	evening rise	5420 Sep 30 20:12	19° ⊆ 15'54	1.5 1,51 710
retrograde	5419 Dec 05 23:11	4° る 35'06		evening rise	5420 Oct 06 16:31	0°M	
evening set	5419 Dec 12 00:55	2° る 04'38		desc. node	5420 Oct 13 10:07	11°ML19'23	
C	5419 Dec 14 04:07	30°R. ✓			5420 Oct 26 07:10	0° ∡ ¹	
min. Earth dist.	5419 Dec 16 08:19	27° ₹ 25'28	0.66999 AU	evening max el	5420 Nov 05 02:02	11° ₹ 09'24	26°45'43
inferior conj	5419 Dec 17 17:15	25° х ⁴41'33	-0°12'10	retrograde	5420 Nov 18 03:55	18° ∡ ¹26′00	
minimum elong	5419 Dec 17 17:34	25° х 40′33	0°12'00	evening set	5420 Nov 24 18:01	15° ∡ 747'40	
transit middle	5419 Dec 17 17:34	25° х 40′33	0°12'00	min. Earth dist.	5420 Nov 28 18:52	11° ∡ ⁴43'39	0.65914 AU
transit begin	5419 Dec 17 15:41	25° х 46′31		inferior conj	5420 Nov 30 15:20	9° х 33′04	-1°12'21
transit end	5419 Dec 17 19:27	25° ∡ ³34'35		minimum elong	5420 Nov 30 17:22	9° ∡ 127'04	1°11'28
asc. node	5419 Dec 18 07:32	24° ₹ 56'37		asc. node	5420 Dec 04 04:35	5° ҂ ′43′10	
morning rise	5419 Dec 23 10:40	19° ∡ ⁴49'43		morning rise	5420 Dec 06 17:35	3° ≯ 52'12	
direct	5419 Dec 26 16:33	18° ∡ ⁴49'21		direct	5420 Dec 09 13:58	3° ≯ 07'13	
morning max el	5420 Jan 02 13:57	22° ₹ 37'43	19°00'54	morning max el	5420 Dec 16 03:01		18°19'56
	5420 Jan 08 15:23	0°る			5421 Jan 01 07:23	0°る	
desc. node	5420 Jan 23 12:22	22°る26'09		morning set	5421 Jan 04 12:23	5°る10'09	
morning set	5420 Jan 25 04:30 5420 Jan 28 08:50	25° る 02'27		desc. node	5421 Jan 09 09:25	12° る 59'55	
max. Earth dist.	5420 Jan 28 08:50 5420 Feb 08 15:12	0° ≈ 17° ≈ 37'10	1.45077 AU	superior conj	5421 Jan 19 22:45	29° る 42'39	1000'06
max. Earm dist.	3420 Feb 08 13.12	1/ ≈3/10	1.430// AU	minimum elong	5421 Jan 19 14:32		1°08'05
superior conj	5420 Feb 10 19:34	21° ≈ 03'22	-1°46'55	minimum clong	5421 Jan 20 03:10	0°≈	1 00 03
minimum elong	5420 Feb 10 10:46	20°≈28'40		max. Earth dist.	5421 Jan 21 09:59		1.45341 AU
	5420 Feb 16 10:48	0°) €		evening rise	5421 Feb 05 01:12	24°≈55'35	
evening rise	5420 Feb 25 17:36	14°) 59'59		C	5421 Feb 08 06:48	0°)	
C	5420 Mar 05 22:53	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	5421 Feb 15 21:43		-0.8m
asc. node	5420 Mar 15 06:48	13° Y 27'29					
evening max el	5420 Mar. 16 22:00			evening max el	5421 Feb 28 07:09	28°) 46′59	19°12'46
retrograde	5420 Mar 16 22:09	15° Ƴ 15'14	18°33'08	evening max el	5421 Feb 28 07:09 5421 Mar 01 13:43	0° Y	19°12'46
	5420 Mar 16 22:09 5420 Mar 23 11:11	18° Ƴ 50'32	18°33'08	evening max el asc. node		0°Υ 0°Υ30'07	19°12'46
evening set	5420 Mar 23 11:11 5420 Mar 26 14:39	18° Υ 50'32 17° Υ 54'59		asc. node retrograde	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12	0°Υ 0°Υ30'07 2°Υ45'33	19°12'46
inferior conj	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42	18° Υ 50'32 17° Υ 54'59 12° Υ 21'28	3°32'06	asc. node	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46	0°Υ 0°Υ30'07 2°Υ45'33 1°Υ36'33	19°12'46
inferior conj minimum elong	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36	18° Y 50'32 17° Y 54'59 12° Y 21'28 12° Y 21'44	3°32'06 3°32'06	asc. node retrograde evening set	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°R¥	
inferior conj minimum elong min. Earth dist.	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05	3°32'06	asc. node retrograde evening set inferior conj	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°R H 25° H 47'05	3°24'40
inferior conj minimum elong min. Earth dist. morning rise	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29	3°32'06 3°32'06	asc. node retrograde evening set inferior conj minimum elong	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°R¥ 25°¥47'05 25°¥51'21	3°24'40 3°24'32
inferior conj minimum elong min. Earth dist. morning rise direct	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52	18°Υ50'32 17°Υ54'59 12°Υ21'28 12°Υ21'44 9°Υ53'05 6°Υ08'29 3°Υ19'47	3°32'06 3°32'06	asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26	3°24'40
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01	3°32'06 3°32'06 0.64819 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06	3°24'40 3°24'32
inferior conj minimum elong min. Earth dist. morning rise direct	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01	3°32'06 3°32'06 0.64819 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20	3°24'40 3°24'32
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°8	3°32'06 3°32'06 0.64819 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46	3°24'40 3°24'32 0.66281 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01	3°32'06 3°32'06 0.64819 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26	3°24'40 3°24'32
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°B 0°II 5°I02'18	3°32'06 3°32'06 0.64819 AU	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46	3°24'40 3°24'32 0.66281 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°B 0°II 5°I02'18	3°32'06 3°32'06 0.64819 AU 27°15'23	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y	3°24'40 3°24'32 0.66281 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°B 0°II 5°I02'18	3°32'06 3°32'06 0.64819 AU 27°15'23	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°B 17°B59'36	3°24'40 3°24'32 0.66281 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29 5420 Jun 06 08:27	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°B 0°I 5°I02'18 14°I16'36	3°32'06 3°32'06 0.64819 AU 27°15'23 1.33608 AU -0°13'14	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28 5421 May 15 19:06	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°B 17°B59'36	3°24'40 3°24'32 0.66281 AU 26°13'33
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29 5420 Jun 06 08:27	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°8 0°II 5°II02'18 14°II16'36	3°32'06 3°32'06 0.64819 AU 27°15'23 1.33608 AU -0°13'14	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28 5421 May 15 19:06 5421 May 19 18:21	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°B 17°B59'36 25°B33'34	3°24'40 3°24'32 0.66281 AU 26°13'33
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29 5420 Jun 06 08:27 5420 Jun 09 23:20 5420 Jun 10 00:02	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°8 0°II 5°I02'18 14°I16'36 21°I49'02 21°I52'41	3°32'06 3°32'06 0.64819 AU 27°15'23 1.33608 AU -0°13'14	asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28 5421 May 15 19:06 5421 May 19 18:21	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°B 17°B59'36 25°B33'34	3°24'40 3°24'32 0.66281 AU 26°13'33
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29 5420 Jun 06 08:27 5420 Jun 09 23:20 5420 Jun 09 20:49 5420 Jun 10 03:14 5420 Jun 10 03:14 5420 Jun 11 06:06	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°8 0°II 5°I102'18 14°I16'36 21°I49'02 21°I52'41 21°I35'46 22°I09'38 24°I31'59	3°32'06 3°32'06 0.64819 AU 27°15'23 1.33608 AU -0°13'14	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.	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28 5421 May 15 19:06 5421 May 19 18:21 5421 May 22 00:25 5421 May 24 20:00 5421 May 24 22:23	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°H 17°H59'36 25°H31'40 5°H41'00 5°H53'09	3°24'40 3°24'32 0.66281 AU 26°13'33 1.35094 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29 5420 Jun 06 08:27 5420 Jun 09 23:20 5420 Jun 09 20:49 5420 Jun 10 03:14 5420 Jun 11 06:06 5420 Jun 13 19:35	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°8 0°Π 5°Π02'18 14°Π16'36 21°Π49'02 21°Π52'41 21°Π35'46 22°Π09'38 24°Π31'59 0°©	3°32'06 3°32'06 0.64819 AU 27°15'23 1.33608 AU -0°13'14	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	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28 5421 May 15 19:06 5421 May 19 18:21 5421 May 24 20:00 5421 May 24 20:00 5421 May 29 03:08	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°B 17°B59'36 25°B33'34 0°II 5°II41'00 5°II53'09 14°II33'35	3°24'40 3°24'32 0.66281 AU 26°13'33 1.35094 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	5420 Mar 23 11:11 5420 Mar 26 14:39 5420 Apr 01 08:42 5420 Apr 01 08:36 5420 Apr 03 10:27 5420 Apr 07 01:54 5420 Apr 13 18:52 5420 Apr 20 11:35 5420 Apr 27 06:32 5420 May 12 03:32 5420 May 30 02:16 5420 Jun 01 17:29 5420 Jun 06 08:27 5420 Jun 09 23:20 5420 Jun 09 20:49 5420 Jun 10 03:14 5420 Jun 10 03:14 5420 Jun 11 06:06	18°Y50'32 17°Y54'59 12°Y21'28 12°Y21'44 9°Y53'05 6°Y08'29 3°Y19'47 5°Y35'01 11°Y14'01 0°8 0°II 5°I102'18 14°I16'36 21°I49'02 21°I52'41 21°I35'46 22°I09'38 24°I31'59	3°32'06 3°32'06 0.64819 AU 27°15'23 1.33608 AU -0°13'14	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	5421 Mar 01 13:43 5421 Mar 02 03:50 5421 Mar 07 07:12 5421 Mar 10 17:46 5421 Mar 12 16:07 5421 Mar 16 06:04 5421 Mar 16 04:45 5421 Mar 17 16:30 5421 Mar 21 15:22 5421 Mar 27 23:24 5421 Apr 07 08:39 5421 Apr 09 16:30 5421 Apr 14 19:20 5421 May 05 13:28 5421 May 15 19:06 5421 May 19 18:21 5421 May 22 00:25 5421 May 24 20:00 5421 May 24 22:23	0°Y 0°Y30'07 2°Y45'33 1°Y36'33 30°RH 25°H47'05 25°H51'21 23°H56'26 19°H32'06 16°H44'20 22°H04'46 24°H18'26 0°Y 0°H 17°H59'36 25°H31'40 5°H41'00 5°H53'09	3°24'40 3°24'32 0.66281 AU 26°13'33 1.35094 AU

evening max el	5421 Jun 20 02:55	21° © 58'08	20°35'04		5422 May 30 14:41	0°9	
retrograde	5421 Jul	21 \$3808 27°\$27'32	20 33 04	evening max el	5422 Jun 02 16:46	3° 5 29'06	1002720
•	5421 Jul 03 08:13	27°927'32		•	5422 Jun 12 03:45	8°906'35	19 2/39
evening set				retrograde			
desc. node	5421 Jul 04 07:50	27°505'43	2026110	evening set	5422 Jun 14 02:13	7°955'48	
inferior conj	5421 Jul 12 14:12	23°520'28		desc. node	5422 Jun 21 04:53	4°548'12	0007130
minimum elong	5421 Jul 12 07:28	23°930'10	2°23'56	inferior conj	5422 Jun 22 17:43	3°549'48	
min. Earth dist.	5421 Jul 13 17:41	22°540'54	0.54879 AU	minimum elong	5422 Jun 22 16:30	3°951'46	
morning rise	5421 Jul 21 06:01	19°5514'27		min. Earth dist.	5422 Jun 25 07:08		0.55785 AU
direct	5421 Jul 25 02:57	18° © 42'07			5422 Jun 29 05:16	30°RⅡ	
morning max el	5421 Aug 07 09:28	25°506'46	23°18'34	morning rise	5422 Jul 01 04:07	29° Ⅱ 12'03	
	5421 Aug 11 22:34	0 \circ Ω		direct	5422 Jul 05 21:31	28° Ⅱ 21'42	
asc. node	5421 Aug 25 02:26	20° Ω 45'02			5422 Jul 12 11:38	0°©	
	5421 Aug 29 17:00	0° m		morning max el	5422 Jul 19 22:51	5° © 26'36	25°01'37
morning set	5421 Aug 30 17:24	2° Mp 08'00			5422 Aug 06 14:29	$0^{\circ}\Omega$	
				asc. node	5422 Aug 11 23:28	10° Ω 17'18	
superior conj	5421 Sep 06 17:43	17° Mp 12'38	1°38'35	morning set	5422 Aug 15 05:06	16° Ω 59'50	
minimum elong	5421 Sep 06 16:19	17° Mp 05'10	1°38'30		5422 Aug 21 04:48	O° Mp	
max. Earth dist.	5421 Sep 09 09:12	22° m 50'45	1.33543 AU				
	5421 Sep 12 20:06	0∘ ⊽		superior conj	5422 Aug 22 03:17	2° Mp 03'10	1°28'19
evening rise	5421 Sep 14 09:00	3° ჲ 05'30		minimum elong	5422 Aug 22 01:12	1° m 51'47	1°28'05
	5421 Sep 29 12:09	0°M		max. Earth dist.	5422 Aug 23 13:57	5° Mp 12′27	1.32575 AU
desc. node	5421 Sep 30 07:07	1°M13'57		evening rise	5422 Aug 29 07:21	17° m 21'36	
evening max el	5421 Oct 18 14:28	24°M35'15	27°20'08		5422 Sep 04 18:14	0∘ ত	
	5421 Oct 25 15:58	0° ∡ ¹		desc. node	5422 Sep 17 04:08	20° ≏ 37'37	
retrograde	5421 Nov 01 02:37	1° х 53′33			5422 Sep 24 02:35	0° M.	
	5421 Nov 07 00:34	30°RM⊾		evening max el	5422 Oct 01 00:38	7°M34'35	27°25'53
evening set	5421 Nov 08 02:18	29°M14'44		retrograde	5422 Oct 14 18:32	14° M 49'24	
min. Earth dist.	5421 Nov 11 21:28	25°M44'54	0.64487 AU	evening set	5422 Oct 21 22:39	12° ™ 19'47	
inferior conj	5421 Nov 14 05:47	23°M14'01	-2°15'46	min. Earth dist.	5422 Oct 25 14:08	9°M20'06	0.62745 AU
minimum elong	5421 Nov 14 09:45	23°Mo3'21	2°14'12	inferior conj	5422 Oct 28 09:49	6°M37'55	-3°19'25
morning rise	5421 Nov 20 18:30	17° M 47'09		minimum elong	5422 Oct 28 15:31	6°M24'13	3°17'31
asc. node	5421 Nov 21 01:39	17° M 39'51		morning rise	5422 Nov 04 10:03	1°M28'33	
direct	5421 Nov 23 07:46	17° M .13'37		direct	5422 Nov 06 18:52	1°M02'49	
morning max el	5421 Nov 29 19:21	20°M38'51	17°55'53	asc. node	5422 Nov 07 22:43	1°M09'10	
C	5421 Dec 06 21:54	0° √		morning max el	5422 Nov 13 12:00	4°M29'29	17°49'32
morning set	5421 Dec 17 01:20	16° х 43'45		morning set	5422 Nov 29 13:50	29°M25'20	
8	5421 Dec 25 00:19	0° ට		. 8	5422 Nov 29 21:40	0° ∡ 7	
desc. node	5421 Dec 27 06:25	3°₹41'23					
				superior conj	5422 Dec 11 02:30	19° ∡ 23'59	0°21'26
superior conj	5421 Dec 30 12:31	8° る 57'20	-0°22'38	minimum elong	5422 Dec 11 04:33	19° ∡ ³32'37	
minimum elong	5421 Dec 30 09:49	8° ප 46'31		desc. node	5422 Dec 14 03:26	24° × ⁷ 27'21	
max. Earth dist.	5422 Jan 04 05:05	16° පි 25'57			5422 Dec 17 12:56	0°ප	
man. Barar alou	5422 Jan 12 21:33	0°≈	1.1.000110	max. Earth dist.	5422 Dec 17 21:57		1.43713 AU
evening rise	5422 Jan 15 15:36	4°≈14'36		evening rise	5422 Dec 26 02:28	13° る 32'18	1.13713110
greatest brilliancy	5422 Jan 30 08:38	26°≈28'16	-0.6m	evening rise	5423 Jan 05 23:34	0°≈	
groutest ormane)	5422 Feb 01 19:07	0° ∀	0.0111	evening max el	5423 Jan 25 10:14	25°≈56'02	21°16'03
evening max el	5422 Feb 11 11:26	12°) € 20'52	20°08'02	evening max er	5423 Jan 30 10:17	0° ∀	21 10 03
asc. node	5422 Feb 17 00:53	16°) €26'28	20 00 02	retrograde	5423 Feb 03 03:12	1° ₩ 05'31	
retrograde	5422 Feb 19 05:14	16°) 51'46		asc. node	5423 Feb 03 03:12	1° ∺ 02'15	
evening set	5422 Feb 23 00:08	15° \(\frac{1}{2}\) 28'22			5423 Feb 06 13:30	30°R≈	
inferior conj	5422 Feb 28 09:15	9° H 25'03	3°05'03	evening set	5423 Feb 07 07:52	29°≈26'57	
minimum elong	5422 Feb 28 07:09	9° X 32'09	3°04'39	inferior conj	5423 Feb 12 15:53	23°≈12'20	2035133
min. Earth dist.	5422 Mar 01 05:25	8° H 16'58	0.67319 AU	minimum elong	5423 Feb 12 13:39		2°34'53
morning rise	5422 Mar 05 13:57	3° ★ 10′28	0.07317 AO	min. Earth dist.	5423 Feb 12 13:29	23 ≈ 20 38 22° ≈ 47'12	0.67932 AU
direct	5422 Mar 11 09:25	0° \ 34'35		morning rise	5423 Feb 17 18:56	16°≈59'42	0.07932 AO
morning max el	5422 Mar 23 01:16		24°53'07	direct	5423 Feb 17 18:30 5423 Feb 23 00:03	10 ≈3942 14°≈42'55	
desc. node		9° X 51'56	24 33 07			20°≈54'40	2202421
acsc. Hour	5422 Mar 25 05:41	9° π 3136		morning max el desc. node	5423 Mar 05 10:14	20°≈34'40 28°≈34'51	43 44 4 I
morning sot	5422 Apr 09 13:53	0° Y 0° 8 02'31		uese. Houe	5423 Mar 12 02:42 5423 Mar 13 05:29	28°≈34'51 0°) €	
morning set	5422 Apr 28 03:12	0° 8				0° π 0° Υ	
may Forth 1:-4	5422 Apr 28 02:38		1 27004 411	morning ast	5423 Apr 02 19:53	10° Υ 56'16	
max. Earth dist.	5422 May 01 18:01	0 03312	1.37004 AU	morning set	5423 Apr 09 11:59		1 20174 411
	5422 NA 00 07 22	1000 5011	1012/45	max. Earth dist.	5423 Apr 13 13:41	17° Y 55′21	1.39174 AU
superior conj	5422 May 08 06:33	18° 8 59'11			5423 Apr 20 06:51	0° 8	
minimum elong	5422 May 08 10:36	19° 8 19'01	1~12'0/		5400 A 01 00 10	1040 400	1020140
	5422 May 13 19:21	0° П		superior conj	5423 Apr 21 03:10	1° 8 34'20	
asc. node	5422 May 16 00:09	4° Ⅱ 25'44		minimum elong	5423 Apr 21 08:14	1° 8 57'56	1~39'14
evening rise	5422 May 16 16:51	5° Ⅱ 49'32		evening rise	5423 Apr 30 11:59	19° 8 29'17	

asc. node	5423 May 02 21:10	24° 8 04'10		asc. node	5424 Apr 18 18:13	13° 8 23'30	
	5423 May 06 01:17	0°II		evening max el	5424 Apr 29 01:31	28° 8 23'50	18°13'46
evening max el	5423 May 16 17:24	15° Ⅱ 40′12	18°40'32	C	5424 Apr 30 22:11	0°II	
retrograde	5423 May 24 17:28	19° Ⅱ 36′50		retrograde	5424 May 06 02:03	1° ∏ 55'21	
evening set	5423 May 26 21:18	19° Ⅱ 20'37		evening set	5424 May 08 12:47	1° Ⅱ 30′25	
inferior conj	5423 Jun 03 16:55	14° Ⅲ 56'33	1°14'56	_	5424 May 11 12:12	30°R₩	
minimum elong	5423 Jun 03 19:32	14° Ⅲ 51'38	1°14'02	inferior conj	5424 May 15 13:41	26° 8 46'03	2°27'21
min. Earth dist.	5423 Jun 07 00:13	12° Ⅱ 28'30	0.57450 AU	minimum elong	5424 May 15 17:07	26° 8 38'30	2°26'27
desc. node	5423 Jun 08 01:55	11° Ⅱ 43'50		min. Earth dist.	5424 May 18 23:15	23° 8 48'04	0.59553 AU
morning rise	5423 Jun 11 14:27	9° Ⅱ 42'39		morning rise	5424 May 22 18:39	21° 8 03'26	
direct	5423 Jun 17 05:53	8° Ⅲ 23'46		desc. node	5424 May 24 22:55	19° 8 59'27	
morning max el	5423 Jul 01 14:49	15° Ⅲ 57'10	26°30'14	direct	5424 May 29 03:52	19° 8 10'09	
	5423 Jul 13 00:51	0 \circ		morning max el	5424 Jun 12 12:53	27° 8 01'36	27°29'58
asc. node	5423 Jul 29 20:28	0° Ω 06′03			5424 Jun 15 08:50	Π $^{\circ}0$	
	5423 Jul 29 19:19	$0^{\circ}\Omega$			5424 Jul 05 14:31	0	
morning set	5423 Jul 30 15:37	1° Ω 46'43		morning set	5424 Jul 13 23:18	16°©23'22	
				asc. node	5424 Jul 15 17:29	20° © 05'56	
superior conj	5423 Aug 06 14:47	16° Ω 57'08	1°13'05		5424 Jul 20 06:45	$0^{\circ}\Omega$	
minimum elong	5423 Aug 06 12:29	16° Ω 44'25	1°12'43	max. Earth dist.	5424 Jul 20 11:00	0° Ω 23′28	1.31906 AU
max. Earth dist.	5423 Aug 06 23:47	17° Ω 46'50	1.32030 AU				
	5423 Aug 12 14:29	O° My		superior conj	5424 Jul 21 02:30	1° Ω 48'56	0°53'28
evening rise	5423 Aug 13 12:20	1° m 55'23		minimum elong	5424 Jul 21 00:27	1° Ω 37'36	0°53'04
	5423 Aug 28 16:43	0∘ ರಾ		evening rise	5424 Jul 27 21:34	16° Ω 39'40	
desc. node	5423 Sep 04 01:09	9° ≏ 17'24			5424 Aug 03 11:46	0° ™	
evening max el	5423 Sep 13 05:39	19° ≏ 53'12	26°58'41	desc. node	5424 Aug 20 22:10	26° ₩ 55'34	
retrograde	5423 Sep 27 02:50	27° £ 03'56			5424 Aug 23 17:35	0∘ ⊽	
evening set	5423 Oct 04 02:58	24° £ 55'17		evening max el	5424 Aug 25 03:22	1° ≏ 23'22	25°58'46
min. Earth dist.	5423 Oct 07 19:54	22° £ 15'58	0.60758 AU	retrograde	5424 Sep 08 02:28	8° ≏ 30'26	
inferior conj	5423 Oct 11 00:04	19° ≏ 35'32		evening set	5424 Sep 14 10:25	6° £ 54'22	
minimum elong	5423 Oct 11 06:27	19° ≏ 22'01	4°16'34	min. Earth dist.	5424 Sep 18 15:58		0.58684 AU
morning rise	5423 Oct 18 11:57	14° ≏ 47'11		inferior conj	5424 Sep 21 21:05	1° Ω 57'44	
direct	5423 Oct 20 19:22	14° £ 26′10		minimum elong	5424 Sep 22 01:44	1° Ω 49'10	5°02'13
asc. node	5423 Oct 25 19:45	16° £ 10'05			5424 Sep 24 15:54	30°R Mp	
morning max el	5423 Oct 28 01:45	18° Ω 02'40	18°01'56	morning rise	5424 Sep 29 19:20	27° m/32'22	
	5423 Nov 05 15:42	0°M		direct	5424 Oct 02 04:50	27° m 13'29	
morning set	5423 Nov 12 19:22	12°M54'52			5424 Oct 09 01:46	0∘ ʊ	10024120
	5423 Nov 22 03:37	0° ∡		morning max el	5424 Oct 10 09:15	1° £ 09'34	18°34'30
	5.400.XX	10.30010	005642	asc. node	5424 Oct 11 16:46	2° £ 30'41	
superior conj	5423 Nov 22 18:33	1°×706'18		morning set	5424 Oct 26 12:54	26° £ 58'13	
minimum elong	5423 Nov 22 22:24	1° 🗷 23'18	0°56'14		5424 Oct 28 02:25	0°M	
max. Earth dist.	5423 Nov 30 09:54	14° 🖈 13'38	1.42014 AU		5424 N	120 m 52110	1021122
desc. node	5423 Dec 01 00:25 5423 Dec 06 01:01	15° ₹ 13'58		superior conj	5424 Nov 04 08:28		1°21'32
evening rise	5423 Dec 06 01:01 5423 Dec 10 05:26	23° メ 24'40 0° る		minimum elong max. Earth dist.	5424 Nov 04 11:55	14°M08'16 27°M07'15	1°21'11 1.39985 AU
	5423 Dec 31 01:07	0°≈		max. Earth dist.	5424 Nov 11 16:33 5424 Nov 13 08:31	27 IIC0713 0° √ 7	1.39963 AU
evening max el	5424 Jan 08 03:50	0 ∞ 9° ≈ 32'10	22°32'49	evening rise	5424 Nov 15 08:51 5424 Nov 15 20:50	4° ₹ 15'34	
retrograde	5424 Jan 17 23:23	9 ≈32 10 15°≈22'15	22 3249	desc. node	5424 Nov 16 21:26	5° × 58'03	
asc. node	5424 Jan 21 18:59	13 ≈22 13 14°≈06'23		desc. Hode	5424 Nov 10 21:20 5424 Dec 02 10:19	0°る	
evening set	5424 Jan 22 15:19	14 ≈00 23 13°≈28'06		evening max el	5424 Dec 02 10:19 5424 Dec 20 17:58	0 る 23° る 11'42	23°52'50
inferior conj	5424 Jan 27 23:56	7°≈05'33	1°57'34	retrograde	5424 Dec 31 16:25	29° ප 38'19	23 32 30
minimum elong	5424 Jan 27 21:42	7°≈13'15	1°56'49	evening set	5425 Jan 05 20:55	27°る28'54	
min. Earth dist.	5424 Jan 27 19:28	7°≈21'02	0.68142 AU	asc. node	5425 Jan 07 16:01	25° ප් 42'41	
morning rise	5424 Feb 02 03:59	0°≈56'13	0.00112110	min. Earth dist.	5425 Jan 10 16:05	21° る 55'09	0.67979 AU
	5424 Feb 03 11:14	30°Ŗ₹		inferior conj	5425 Jan 11 07:35	21° る 02'27	1°12'12
direct	5424 Feb 06 18:28	29° පි 01'50		minimum elong	5425 Jan 11 06:00	21° る 07'53	1°11'36
	5424 Feb 10 08:15	0°≈		morning rise	5425 Jan 16 15:04	14°る58'05	
morning max el	5424 Feb 15 22:30	4°≈23'50	21°56'43	direct	5425 Jan 20 15:44	13° る 26'20	
desc. node	5424 Feb 26 23:42	17°≈57'20		morning max el	5425 Jan 28 17:15	18° る 03'38	20°37'36
	5424 Mar 06 09:41	0° ∀		0	5425 Feb 07 09:20	0° ≈	
morning set	5424 Mar 19 16:38	20°) 29'45		desc. node	5425 Feb 12 20:43	7° ≈ 48'39	
	5424 Mar 25 11:57	0°Υ		morning set	5425 Feb 26 20:05	28°≈55'27	
max. Earth dist.	5424 Mar 25 12:03	0° Υ 00'28	1.41336 AU	<i>5</i>	5425 Feb 27 12:40	0° ∀	
	12.00		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	max. Earth dist.	5425 Mar 07 17:12		1.43219 AU
superior conj	5424 Apr 02 05:08	13° Υ 14'54	-2°00'23			,,,,,,,,	
minimum elong	5424 Apr 02 09:24	13° Υ 33'44		superior conj	5425 Mar 14 07:37	23° ¥ 50′23	-2°09'16
3	5424 Apr 11 10:39	0°8		minimum elong	5425 Mar 14 07:57	23°) 51'46	
evening rise	5424 Apr 12 19:38	2° 8 32'48			5425 Mar 17 23:05	0°Υ	
<i>5</i>	r	<u> </u>			==	•	

,	J		· ·	<i>"</i>		, 1	U
evening rise	5425 Mar 26 11:30	14° Ƴ 49'55		evening rise	5426 Mar 08 07:13	26°) 12′59	
evening rise	5425 Apr 04 05:27	0° 8		evening rise	5426 Mar 10 13:16	0°Υ	
asc. node	5425 Apr 05 15:15	2° 8 16'40		asc. node	5426 Mar 23 12:19	20° Υ 35'36	
	-	_	10006126				18°18'17
evening max el	5425 Apr 12 13:36	11° 8 30'15	18-00-30	evening max el	5426 Mar 27 02:32	28° Y 17'53	18-18-17
retrograde	5425 Apr 19 01:52	14° 8 52'11		retrograde	5426 Apr 02 12:36		
evening set	5425 Apr 21 19:19	14° 8 16'14		evening set	5426 Apr 05 12:26	27° Y 29'38	
inferior conj	5425 Apr 28 05:09	9° 8 11'54		inferior conj	5426 Apr 11 11:12	22° Y 06′21	3°29'33
minimum elong	5425 Apr 28 07:32	9° 8 05'51	3°09'58	minimum elong	5426 Apr 11 12:00	22° Y ′04′06	3°29'31
min. Earth dist.	5425 May 01 06:04	6° 8 08'58	0.61760 AU	min. Earth dist.	5426 Apr 13 21:55	19° Y 20′51	0.63797 AU
morning rise	5425 May 04 17:57	3° 8 11'29		morning rise	5426 Apr 17 10:35	15° Ƴ 56'35	
direct	5425 May 11 12:53	0° 8 47'30		direct	5426 Apr 24 06:30	13° Ƴ 13′05	
desc. node	5425 May 11 19:58	0° 8 47'45		desc. node	5426 Apr 28 16:59	14° Ƴ 12'38	
morning max el	5425 May 25 17:02	8° 8 47'27	27°53'01	morning max el	5426 May 08 01:25	21° Y 11'52	27°38'46
	5425 Jun 11 00:48	$\Pi^{\circ}0$			5426 May 15 16:32	0°8	
	5425 Jun 27 17:45	0ಂತಾ			5426 Jun 04 03:35	$\Pi^{\circ}0$	
morning set	5425 Jun 28 02:06	0°9542'37		morning set	5426 Jun 11 21:42	14° ∏ 37'21	
asc. node	5425 Jul 02 14:30	10°9511'32		max. Earth dist.	5426 Jun 16 22:10	24° ∏ 53'14	1.32969 AU
max. Earth dist.	5425 Jul 03 19:44		1.32213 AU	asc. node	5426 Jun 19 11:33	0°518'51	1.52707 110
max. Lartii dist.	3423 Jul 03 17.44	12 34720	1.52215 AO	asc. node	5426 Jun 19 08:01	0° 9	
superior coni	5425 Jul 05 12:25	16° © 31'45	0°20'01		3420 Juli 19 08.01	0 3	
superior conj	5425 Jul 05 12:35				5426 I 10 10 12	00050154	0002120
minimum elong	5425 Jul 05 11:15	16°9524'28	0°29'42	superior conj	5426 Jun 19 19:12		0°03'20
	5425 Jul 11 16:43	$0^{\circ}\Omega$		minimum elong	5426 Jun 19 19:03	0°559'02	0°03'16
evening rise	5425 Jul 12 08:58	1° Ω 26′56		behind sun begin	5426 Jun 19 13:47	0° © 30'49	
	5425 Jul 27 21:21	0°Щ		behind sun end	5426 Jun 20 00:18	1° 9 27'16	
evening max el	5425 Aug 06 18:07	12°Mp08'13	24°33'06	evening rise	5426 Jun 26 20:41	16°©11'20	
desc. node	5425 Aug 07 19:12	13°Mp06'30			5426 Jul 03 17:20	$0 {\circ} \Omega$	
retrograde	5425 Aug 20 14:57	19° m 07'29		evening max el	5426 Jul 19 06:50	22° Ω 29'29	22°55'39
evening set	5425 Aug 25 17:21	18° m 09'17		desc. node	5426 Jul 25 16:14	27° Ω 18'25	
min. Earth dist.	5425 Aug 31 05:18	15° m 19'10	0.56784 AU	retrograde	5426 Aug 01 14:28	29° Ω 08'08	
inferior conj	5425 Sep 02 22:09	13° Mp 35'29	-5°19'13	evening set	5426 Aug 05 04:26	28° Ω 40′05	
minimum elong	5425 Sep 02 21:39	13° Mp 36'17	5°19'13	min. Earth dist.	5426 Aug 12 15:23	25° Ω 20′10	0.55388 AU
morning rise	5425 Sep 11 04:20	9° m 31'24		inferior conj	5426 Aug 14 04:00	24° Ω 27'27	-4°50'35
direct	5425 Sep 13 19:38	9° m) 12'22		minimum elong	5426 Aug 13 21:07	24° Ω 37'24	
morning max el	5425 Sep 23 07:01	13° m 39'03	19°28'44	morning rise	5426 Aug 22 15:56	20° Ω 36'47	
asc. node	5425 Sep 28 13:47	19° m 54'59	19 20 11	direct	5426 Aug 25 16:11	20°Ω15'31	
asc. node	5425 Oct 04 17:13	0° ʊ		morning max el	5426 Sep 05 16:43	25° Ω 23'22	20044444
morning set	5425 Oct 10 14:38	0 — 11° ≏ 24'21		morning max ci	5426 Sep 09 21:28	0° m)	20 44 44
morning set	3423 Oct 10 14.36	11 == 24 21		4-	5426 Sep 15 10:49		
	5425 0 + 10 14 46	270 0 25126	1027120	asc. node	1	8° Mp 09'01	
superior conj	5425 Oct 18 14:46	27° £ 25'36		morning set	5426 Sep 24 21:43	26° Mp 05'24	
minimum elong	5425 Oct 18 16:51	27° △ 35'50	1°36'21		5426 Sep 26 19:02	0∘ ⊽	
	5425 Oct 19 22:26	0°M				_	
max. Earth dist.	5425 Oct 24 21:18	9°M22'11	1.37874 AU	superior conj	5426 Oct 02 08:51	11° ≏ 33'16	
evening rise	5425 Oct 28 15:23	16°M08'23		minimum elong	5426 Oct 02 09:23	11° ≏ 36'01	1°42'51
desc. node	5425 Nov 03 18:28	26°M35'30		max. Earth dist.	5426 Oct 07 05:30	21° ≏ 17'06	1.35922 AU
	5425 Nov 05 20:43	0° ⊼		evening rise	5426 Oct 11 05:36	28° ≏ 55'02	
	5425 Nov 26 23:45	0°る			5426 Oct 11 19:38	0°M	
evening max el	5425 Dec 03 06:49	6° る 55'35	25°09'32	desc. node	5426 Oct 21 15:31	17°M01'26	
retrograde	5425 Dec 15 05:13	13° る 49'37			5426 Oct 30 02:35	0° ⊼	
evening set	5425 Dec 20 23:07	11° る 26'17		evening max el	5426 Nov 15 19:38	20° х 39′26	26°15'31
min. Earth dist.	5425 Dec 25 10:40	6° る 26'45	0.67457 AU	retrograde	5426 Nov 28 12:53	27° ₹ ′50′02	
asc. node	5425 Dec 25 13:03	6° ප 19'03		evening set	5426 Dec 04 20:06	25° ∡ 15'47	
inferior conj	5425 Dec 26 13:04	5° ට 00'38	0°20'19	min. Earth dist.	5426 Dec 09 00:46	20° х 51′30	0.66582 AU
minimum elong	5425 Dec 26 12:34	5° る 02'17		inferior conj	5426 Dec 10 14:27	18° ₹ 55'54	
8	5425 Dec 30 21:19	30°R. ✓		minimum elong	5426 Dec 10 15:28	18° ₹ 52'49	
morning rise	5426 Jan 01 02:15	29° ₹ 03'20		asc. node	5426 Dec 12 10:06	16° ₹ 45'32	0 30 43
direct	5426 Jan 04 14:31	27° 🖈 52'16		morning rise	5426 Dec 16 11:24	13° ₹ '08'15	
direct		27 メ ・32 10		-			
	5426 Jan 09 16:23		10021144	direct	5426 Dec 19 13:05	12° 🗷 14'44	10041127
morning max el	5426 Jan 11 19:59		19°31'44	morning max el	5426 Dec 26 05:52	15° ₹ 54'41	18°41'25
greatest brilliancy	5426 Jan 24 21:29	19°る11'41	-0.7m		5427 Jan 05 19:21	0°る	
desc. node	5426 Jan 30 17:45	28° る 01'11		morning set	5427 Jan 16 08:30	16° る 29'18	
	5426 Feb 01 00:50	0°≈		desc. node	5427 Jan 17 14:47	18° る 28'35	
morning set	5426 Feb 05 17:10	7° ≈ 11'52			5427 Jan 24 22:40	0° ≈	
max. Earth dist.	5426 Feb 18 05:52	26° ≈ 45'45	1.44590 AU	max. Earth dist.	5427 Jan 31 23:48	11° ≈ 02'58	1.45285 AU
	5426 Feb 20 06:48	0°) €					
				superior conj	5427 Feb 01 15:02	12° ≈ 02'46	-1°32'39
superior conj	5426 Feb 22 08:46	3°) 19′38	-2°00'52	minimum elong	5427 Feb 01 05:35	11° ≈ 25'39	
minimum elong	5426 Feb 22 02:44	2°) 55′26			5427 Feb 12 23:57	0° ∀	
	J. 1 1 40 22 02.17	= 7(35 20				- /\	

evening rise	5427 Feb 17 03:49	6°) 38'44		max. Earth dist.	5428 Jan 14 19:33	25°₹31'25	1.45233 AU
greatest brilliancy	5427 Feb 24 19:39	18°) 54'48	-0.9m	man Barur diov.	5428 Jan 17 16:05	0°≈	1.10200110
8	5427 Mar 04 00:21	0°Υ	****	evening rise	5428 Jan 28 03:01	16° ≈ 16'13	
asc. node	5427 Mar 10 09:22	8° Υ ′09'23		8	5428 Feb 06 00:24	0°) €	
evening max el	5427 Mar 10 13:34	8° Y 20′08	18°47'58	greatest brilliancy	5428 Feb 09 21:53	5°) 54'41	-0.7m
retrograde	5427 Mar 17 06:12	12° Y 03'48		evening max el	5428 Feb 21 20:39	21°) 52'44	19°34'25
evening set	5427 Mar 20 12:41	11° Y 02'25		asc. node	5428 Feb 25 06:24	24°) 45'38	
inferior conj	5427 Mar 26 03:55	5° Y 21'45	3°30'35	retrograde	5428 Feb 29 03:29	26°) €04'15	
minimum elong	5427 Mar 26 03:15	5° Y 23'49	3°30'34	evening set	5428 Mar 03 17:26	24°)(49'07	
min. Earth dist.	5427 Mar 27 22:58	3° Y 08'49	0.65495 AU	inferior conj	5428 Mar 09 04:04	18° ¥ 53′10	3°17'40
	5427 Mar 30 18:49	30° ₹ ₩		minimum elong	5428 Mar 09 02:21	18° ¥ 58'48	3°17'25
morning rise	5427 Mar 31 17:21	29° ∺ 07'47		min. Earth dist.	5428 Mar 10 08:10	17° ∺ 20′35	0.66776 AU
direct	5427 Apr 07 07:05	26° ∺ 18'13		morning rise	5428 Mar 14 11:02	12° ∺ 38′01	
desc. node	5427 Apr 15 14:02	29° ∺ 44'09		direct	5428 Mar 20 13:53	9° ∺ 54'31	
	5427 Apr 15 22:22	$0^{\circ}\mathbf{\Upsilon}$		desc. node	5428 Apr 01 11:05	16°) 49′58	
morning max el	5427 Apr 20 11:29	4° Y 04'50	26°52'03	morning max el	5428 Apr 01 21:11	17° ∺ 15'18	25°41'01
	5427 May 10 03:12	0° 8			5428 Apr 12 12:33	0° Υ	
morning set	5427 May 26 06:58	27° 8 58'14			5428 May 02 02:22	0°8	
	5427 May 27 08:17	0°II		morning set	5428 May 08 01:46	10° 8 33'55	
max. Earth dist.	5427 May 30 14:53	6°Ⅱ27'37	1.34186 AU	max. Earth dist.	5428 May 11 20:16	17° 8 35'58	1.35861 AU
	5405 4 00 00 10	150T0005	0005145		540034 15 10 55	2001	0055145
superior conj	5427 Jun 03 20:12	15° I I06'35		superior conj	5428 May 17 12:55	28° 8 44'39	
minimum elong	5427 Jun 03 21:35	15° Ⅱ 13'47 20° Ⅱ 23'36	0°25′28	minimum elong	5428 May 17 16:02	29° 8 00'19	0°55'14
asc. node	5427 Jun 06 08:37	20°Щ23′36 0°S		4-	5428 May 18 03:54	0°Ⅲ 10°Ⅲ21'34	
	5427 Jun 10 21:53	0°9546'21		asc. node	5428 May 23 05:39	10°Щ21°34 15°Щ05'33	
evening rise	5427 Jun 11 06:45 5427 Jun 28 07:05	0 3 40 21 0°Ω		evening rise	5428 May 25 13:05 5428 Jun 02 06:14	0°9	
evening max el	5427 Jul	3° Ω 00'16	21°22'19	evening max el	5428 Jun 12 08:01	୦ ୬ 14° ୭ 06'11	20°03'57
desc. node	5427 Jul 12 13:15	8° Ω 58'40	21 22 19	retrograde	5428 Jun 22 19:05	19°9513'33	20 03 37
retrograde	5427 Jul 12 13:13 5427 Jul 13 04:32	8° Ω 59'38		evening set	5428 Jun 24 17:03	19° © 03'59	
evening set	5427 Jul 15 04:32 5427 Jul 15 13:47	8° Ω 46'31		desc. node	5428 Jun 28 10:17	17° 9 56'17	
inferior conj	5427 Jul 24 22:03	4°Ω47'23	-3°30'13	inferior conj	5428 Jul 03 18:04	17 3 30 17	-1°35'37
minimum elong	5427 Jul 24 13:20	4°Ω59'34	3°27'36	minimum elong	5428 Jul 03 13:36		1°33'57
min. Earth dist.	5427 Jul 25 01:23	4°Ω42'43	0.54785 AU	min. Earth dist.	5428 Jul 05 13:27	13°959'32	0.55143 AU
morning rise	5427 Aug 02 13:44	0° Ω 53'25	0.5 1,05 110	morning rise	5428 Jul 12 08:32	10°546'17	0.00110110
direct	5427 Aug 06 01:34	0° Ω 27'05		direct	5428 Jul 16 13:15	10°907'54	
morning max el	5427 Aug 18 14:57	6° Ω 23'17	22°19'17	morning max el	5428 Jul 30 05:53	16° © 51'19	24°03'17
asc. node	5427 Sep 02 07:52	27° Ω 01'14		C	5428 Aug 09 20:44	$0^{\circ}\Omega$	
	5427 Sep 03 21:59	0° m)		asc. node	5428 Aug 19 04:54	16° Ω 21'10	
morning set	5427 Sep 09 08:02	10° m 55'37		morning set	5428 Aug 23 19:41	25° Ω 48′23	
					5428 Aug 25 18:45	0° m	
superior conj	5427 Sep 16 11:06	26° Mp 05'03	1°41'58				
minimum elong	5427 Sep 16 10:19	26° Mp 00′52	1°41'57	superior conj	5428 Aug 30 18:40	10°M 51'05	1°34'53
	5427 Sep 18 07:49	0∘ ⊽		minimum elong	5428 Aug 30 16:56	10° m 41'41	1°34'44
max. Earth dist.	5427 Sep 19 21:19	3° ≏ 14'18	1.34292 AU	max. Earth dist.	5428 Sep 01 21:35	15°₩25'28	1.33071 AU
evening rise	5427 Sep 24 11:20	12° ≏ 25'12		evening rise	5428 Sep 07 04:33	26° Mp 27′16	
	5427 Oct 04 03:22	0° M ₊			5428 Sep 08 23:12	0∘ ত	
desc. node	5427 Oct 08 12:32	7° M ₊10'12		desc. node	5428 Sep 24 09:32	26° ≏ 53'22	
	5427 Oct 25 06:21	0° ∡ ¹			5428 Sep 26 11:45	0° M	
evening max el	5427 Oct 29 08:26	4° ∡ 15'14 −	27°03'22	evening max el	5428 Oct 10 19:55	17° M 30'54	27°26'17
retrograde	5427 Nov 11 14:59	11° ∡ ³32'56		retrograde	5428 Oct 24 10:59	24°M48'47	
evening set	5427 Nov 18 09:47	8° ≯ 53'12		evening set	5428 Oct 31 13:27	22°M12'08	
min. Earth dist.	5427 Nov 22 08:03	5°×704'16	0.65355 AU	min. Earth dist.	5428 Nov 04 06:31	18°M56'10	0.63786 AU
inferior conj	5427 Nov 24 09:36	2° 🖈 44'08		inferior conj	5428 Nov 06 19:58	16°M18'48	
minimum elong	5427 Nov 24 12:27	2° ∡ 736′03	1°37'46	minimum elong	5428 Nov 07 00:45	16°M06'34	2°41'10
aga nada	5427 Nov 26 22:24	30°RM		morning rise asc. node	5428 Nov 13 13:34	10°M 59'16	
asc. node	5427 Nov 29 07:07 5427 Nov 30 16:10	27°M.58'11 27°M.09'02		asc. node direct	5428 Nov 15 04:09 5428 Nov 16 00:30	10°M33'10 10°M29'35	
morning rise direct	5427 Nov 30 16:10 5427 Dec 03 09:18	26°M29'19		morning max el	5428 Nov 16 00:30 5428 Nov 22 13:39	10°11629'33	17°50'57
uncci	5427 Dec 03 09:18 5427 Dec 09 21:55	26°1162919 0° √ 1		morning max er	5428 Nov 22 13:39 5428 Dec 03 17:57	13°1163422 0° √ 7	1/ 303/
morning max el	5427 Dec 09 20:45	29°M57'05	18°07'38	morning set	5428 Dec 09 04:57	0 x . 9° x 20'37	
morning set	5427 Dec 28 05:13	27°×15'48	10 0/30	desc. node	5428 Dec 21 08:49	29° х 2037	
morning set	5427 Dec 28 03:13 5427 Dec 29 21:18	27×1348 0°る		desc. node	5428 Dec 21 11:08	29 × 30 34	
desc. node	5428 Jan 04 11:49	9° ට 06'34			5.25 500 21 11.00	~ ~	
		, 0000		superior conj	5428 Dec 21 19:35	0° る 34'34	-0°03'10
superior conj	5428 Jan 11 20:22	20° ප 51'02	-0°49'43	minimum elong	5428 Dec 21 19:14	0° ප 33'08	0°03'06
minimum elong	5428 Jan 11 14:16	20° る 26'53		behind sun begin	5428 Dec 21 09:35	29° ₹ 53'39	
					02.00		

behind sun end	5428 Dec 22 04:53	1°る12'34		superior conj	5429 Dec 02 20:54	11° ∡ ³34'17	0°37'39
max. Earth dist.	5428 Dec 27 13:36	9° ප 51'00	1.44453 AU	minimum elong	5429 Dec 03 00:04	11° ∡ ¹47'52	0°37'13
evening rise	5429 Jan 06 13:51	25° る 29'31		desc. node	5429 Dec 08 05:48	20° х 37′19	
	5429 Jan 09 12:31	0° ≈		max. Earth dist.	5429 Dec 10 04:01	23° х 47′13	1.43048 AU
	5429 Jan 30 05:59	0° ℋ			5429 Dec 14 00:28	0° ප	
evening max el	5429 Feb 03 22:30	5°) €26'54	20°35'36	evening rise	5429 Dec 17 03:58	4° る 58'02	
asc. node	5429 Feb 11 03:25	10°) €09'35			5430 Jan 02 21:20	0° ≈	
retrograde	5429 Feb 12 01:49	10° ∺ 14'15		evening max el	5430 Jan 17 18:58	19° ≈ 02'37	21°48'02
evening set	5429 Feb 16 00:35	8°) 44′36		retrograde	5430 Jan 26 23:11	24° ≈ 29'31	
inferior conj	5429 Feb 21 09:00	2° ∺ 35′59	2°53'40	asc. node	5430 Jan 29 00:27	24° ≈ 07'08	
minimum elong	5429 Feb 21 06:43	2°) 43′48	2°53'08	evening set	5430 Jan 31 08:22	22° ≈ 44'37	
min. Earth dist.	5429 Feb 21 23:32	1°) 46′12	0.67627 AU	inferior conj	5430 Feb 05 16:28	16° ≈ 26′19	2°20'24
	5429 Feb 23 07:12	30° R ≈		minimum elong	5430 Feb 05 14:05	16° ≈ 34'35	2°19'41
morning rise	5429 Feb 26 12:38	26° ≈ 21'47		min. Earth dist.	5430 Feb 05 18:43	16°≈18'30	0.68069 AU
direct	5429 Mar 04 02:01	23°≈53'21		morning rise	5430 Feb 10 19:37	10°≈14'44	
	5429 Mar 14 16:20	0°) (2214€	24015144	direct	5430 Feb 15 18:32	8°≈07'01	22046110
morning max el	5429 Mar 15 05:53	0°) 33'46	24°15'44	morning max el	5430 Feb 25 15:36	13°≈57'36	22°46'19
desc. node	5429 Mar 19 08:07	5°) €03'27		desc. node	5430 Mar 06 05:07	24°≈04'53	
	5429 Apr 06 10:37	0° Υ 22° Υ 10'06			5430 Mar 10 14:05	0° ∀ 0° Υ	
morning set	5429 Apr 20 00:45	22° Υ 10'06 28° Υ 40'16	1 27002 AII		5430 Mar 30 09:15	2°Υ30'09	
max. Earth dist.	5429 Apr 23 17:02		1.37902 AU	morning set	5430 Mar 31 21:51	10°Υ15'25	1 40110 411
	5429 Apr 24 10:41	0° 8		max. Earth dist.	5430 Apr 05 12:37	10° 1 15′25	1.40110 AU
superior conj	5429 Apr 30 18:04	11° 8 46'03	-1°24'46	superior conj	5430 Apr 13 07:21	23° Y 59'38	-1°49'37
minimum elong	5429 Apr 30 22:41	12° 8 08'12	1°24'07	minimum elong	5430 Apr 13 12:23	24° Y °22'33	1°49'10
evening rise	5429 May 09 13:11	29° 8 02'13			5430 Apr 16 13:36	0° ႘	
asc. node	5429 May 10 02:41	0°Ⅲ08'48		evening rise	5430 Apr 23 03:52	12° 8 27'28	
	5429 May 10 00:54	Π $^{\circ}0$		asc. node	5430 Apr 26 23:43	19° 8 39'52	
evening max el	5429 May 26 02:51	25° Ⅱ 55'29	19°05'10		5430 May 02 21:52	Π °0	
	5429 Jun 01 20:32	0°€		evening max el	5430 May 09 07:12	8° Ⅱ 22'05	18°26'46
retrograde	5429 Jun 03 21:57	0° 5 13'49		retrograde	5430 May 16 19:37	12° Ⅱ 05'35	
evening set	5429 Jun 05 22:03	0° © 01'20		evening set	5430 May 19 02:30	11° Ⅱ 45'55	
	5429 Jun 06 00:35	30°Ŗ Ⅱ		inferior conj	5430 May 26 13:48	7° Ⅱ 13'29	1°49'28
inferior conj	5429 Jun 14 05:19	25° Ⅱ 48'41	0°19'10	minimum elong	5430 May 26 17:05	7° Ⅱ 06'53	1°48'27
minimum elong	5429 Jun 14 06:06	25° Ⅱ 47'20	0°18'51	min. Earth dist.	5430 May 29 23:55	4° Ⅱ 29'46	0.58316 AU
desc. node	5429 Jun 15 07:19	25° Ⅱ 03'52		desc. node	5430 Jun 02 04:21	2° Ⅱ 19'31	
min. Earth dist.	5429 Jun 17 04:37	23° ∏ 47'00	0.56409 AU	morning rise	5430 Jun 03 04:30	1° ∏ 46'24	
morning rise	5429 Jun 22 10:55	20° ∏ 54'54		direct	5430 Jun 09 04:37	0° Ⅱ 12'46	
direct	5429 Jun 27 13:51	19° Ⅲ 53′22		morning max el	5430 Jun 23 13:52	7° ∏ 54'48	26°59'44
morning max el	5429 Jul 11 19:47	27° Ⅱ 12'50	25°42'03		5430 Jul 10 05:06	0°©	
	5429 Jul 14 12:42	0°©		morning set	5430 Jul 23 16:33	25° © 21'27	
	5429 Aug 03 01:45	0°N		asc. node	5430 Jul 23 22:58	25°\$55'14	
asc. node	5429 Aug 06 01:57	6° Ω 01'20			5430 Jul 25 20:48	$0 {\circ} \Omega$	
morning set	5429 Aug 08 07:04	10° Ω 38'45		aumorior coni	5430 Jul 30 17:06	100 027140	1905!17
	5420 A 15 05 10	250 0 4 4 100	1022127	superior conj			1°05'17
superior conj	5429 Aug 15 05:18	25° Ω 44'09	1°22'26 1°22'09	minimum elong	5430 Jul 30 14:50	10° Ω 25'12	
minimum elong	5429 Aug 15 03:04	25° Ω 31'53 27° Ω 52'25	1.32285 AU	max. Earth dist.	5430 Jul 30 15:27	10°Ω28'34 25°Ω31'05	1.31926 AU
max. Earth dist.	5429 Aug 16 04:39 5429 Aug 17 03:57	0° m)	1.32283 AU	evening rise	5430 Aug 06 13:05 5430 Aug 08 16:42	0° m)	
evening rise	5429 Aug 17 05:57 5429 Aug 22 06:02	10° Mp 52'01			5430 Aug 08 10.42 5430 Aug 25 23:09	0∘ ⊽	
evening rise	5429 Sep 01 04:59	0° ⊡		desc. node	5430 Aug 29 03:34	0 = 4° £ 16'23	
desc. node	5429 Sep 11 06:32	0 = 16° ⊆ 00'18		evening max el	5430 Sep 05 06:33	12° £ 13'47	26°37'06
desc. node	5429 Sep 22 22:08	0°M		retrograde	5430 Sep 19 04:52	12 ⊆ 1347 19° ⊆ 22'24	20 37 00
evening max el	5429 Sep 23 04:10	0°M14'21	27°18'29	evening set	5430 Sep 25 23:36	17° ⊆ 26'48	
retrograde	5429 Oct 07 00:07	7°M28'04	27 102)	min. Earth dist.	5430 Sep 29 20:19	17 — 20 4 0 14° — 51'12	0.59871 AU
evening set	5429 Oct 14 03:34	5°M05'56		inferior conj	5430 Oct 03 01:56	12° ⊆ 16'56	
min. Earth dist.	5429 Oct 17 18:43	2°M16'17	0.61921 AU	minimum elong	5430 Oct 03 07:58	12° ⊆ 10'50	
Zarur dist.	5429 Oct 20 06:42	2 11010 17 30°RΩ	3.01,21,110	morning rise	5430 Oct 10 18:25	7° £ 37'50	. 5522
inferior conj	5429 Oct 20 00.42 5429 Oct 20 18:34	29° £ 32'47	-3°45'23	direct	5430 Oct 10 18:25 5430 Oct 13 02:15	7° ⊆ 3730	
minimum elong	5429 Oct 21 00:45	29° ⊆ 18'39		asc. node	5430 Oct 19 02:13	10° ⊆ 18'45	
morning rise	5429 Oct 27 23:50	24° £ 31'58	2 := # ·	morning max el	5430 Oct 20 16:56	10° ⊆ 10°43	18°13'12
direct	5429 Oct 30 07:30	24° ⊆ 08'43			5430 Nov 02 05:31	0°M	
asc. node	5429 Nov 02 01:12	24° £ 42'14		morning set	5430 Nov 05 12:40	6°M11'00	
morning max el	5429 Nov 06 05:29	27° £ 38'51	17°52'21		12		
<i>5</i>	5429 Nov 08 08:29	0°M		superior conj	5430 Nov 14 22:57	23°M45'51	1°08'31
morning set	5429 Nov 22 01:24	22°M24'46		minimum elong	5430 Nov 15 02:49	24°M03'22	1°08'03
5 ·	5429 Nov 26 06:34	0° ∡ 7		3	5430 Nov 18 10:46	0° ∡ 7	

max. Earth dist.	5430 Nov 22 13:57	7° ∡ 08'25	1.41182 AU	minimum elong	5431 Oct 28 23:24	7° M 07'50	1°28'46
desc. node	5430 Nov 25 02:49	11°×723'45	1.11102110	max. Earth dist.	5431 Nov 04 19:44	19° M 46'17	1.39080 AU
evening rise	5430 Nov 27 11:05	15° ₹ 14'59		evening rise	5431 Nov 08 16:42	26°M32'27	
<i>y</i> 21	5430 Dec 06 20:44	ი გაი		3	5431 Nov 10 17:42	0° ∡ 7	
	5430 Dec 28 22:20	0° ≈		desc. node	5431 Nov 11 23:51	2° ∡ °05'36	
evening max el	5430 Dec 31 11:05	2°≈41'31	23°06'50		5431 Nov 30 11:13	8°0	
retrograde	5431 Jan 10 18:03	8° ≈ 47'14		evening max el	5431 Dec 14 00:27	16° පි 23'17	24°26'13
evening set	5431 Jan 15 15:14	6° ≈ 46'34		retrograde	5431 Dec 25 09:20	23° る 02'27	
asc. node	5431 Jan 15 21:29	6° ≈ 33'08		evening set	5431 Dec 30 19:37	20° る 46'38	
min. Earth dist.	5431 Jan 20 15:25	0° ≈ 53'43	0.68125 AU	asc. node	5432 Jan 02 18:31	17° る 39'24	
inferior conj	5431 Jan 21 00:35	0° ≈ 22'08	1°39'11	min. Earth dist.	5432 Jan 04 11:22	15° る 27'37	0.67807 AU
minimum elong	5431 Jan 20 22:35	0° ≈ 29'04	1°38'28	inferior conj	5432 Jan 05 07:33	14° る 20'03	0°50'57
	5431 Jan 21 07:01	30°Ŗる		minimum elong	5432 Jan 05 06:22	14° る 24'02	0°50'30
morning rise	5431 Jan 26 05:50	24° る 14'47		morning rise	5432 Jan 10 17:13	8° る 18'43	
direct	5431 Jan 30 14:25	22° る 29'57		direct	5432 Jan 14 12:26	6° ⋜ 56'08	
morning max el	5431 Feb 08 06:15	27° る 31'19	21°21'39	morning max el	5432 Jan 22 04:29	11° る 16'59	20°07'50
	5431 Feb 10 13:50	0° ≈			5432 Feb 05 11:02	0° ≈	
desc. node	5431 Feb 21 02:07	13° ≈ 41'13		desc. node	5432 Feb 07 23:08	3° ≈ 42'30	
	5431 Mar 04 04:11	0° ∀		morning set	5432 Feb 18 12:18	19° ≈ 44'10	
morning set	5431 Mar 11 14:34	11°) € 30′51			5432 Feb 25 02:15	0° ∀	
max. Earth dist.	5431 Mar 18 14:05	22°) (45'39	1.42198 AU	max. Earth dist.	5432 Feb 28 23:04	6° ₩ 08'25	1.43883 AU
	5431 Mar 22 22:17	0° Y					
	5421.14 25 22 52	50001 4100	2005154	superior conj	5432 Mar 05 15:29	15° ¥ 20'43	
superior conj	5431 Mar 25 23:53	5°Υ14'09		minimum elong	5432 Mar 05 13:12	15° 米 11′21 0° Υ	2°08'02
minimum elong	5431 Mar 26 02:55	5° Υ 27'13	2°05'49		5432 Mar 14 09:32	7° Υ 08'10	
evening rise	5431 Apr 06 05:21	25° Y 12'37 0° と		evening rise	5432 Mar 18 13:12	7° Υ ′08′10 27° Υ ′28′57	
asc. node	5431 Apr 08 20:46	8° 8 49'02		asc. node	5432 Mar 30 17:48	0° 8	
	5431 Apr 13 20:45 5431 Apr 22 17:26	21° 8 16'36	18°08'19	evening max el	5432 Apr 01 11:57 5432 Apr 05 06:10	4° 8 30'02	19900!12
evening max el retrograde	5431 Apr 29 11:15	24° 8 42'01	10 00 19	retrograde	5432 Apr 11 16:27	7° 8 52'34	16 09 13
evening set	5431 May 02 01:02	24° 8 12'27		evening set	5432 Apr 14 12:34	7° 8 11'32	
inferior conj	5431 May 08 18:59	19° 8 19'10	2°48'52	inferior conj	5432 Apr 20 17:11	1° 8 58'40	3°21'03
minimum elong	5431 May 08 22:06	19° 8 11'51	2°48'11	minimum elong	5432 Apr 20 17:11	1° 8 54'03	
min. Earth dist.	5431 May 12 01:44	16° 8 16'24	0.60506 AU	minimum ciong	5432 Apr 22 13:37	30°RY	3 2031
morning rise	5431 May 15 16:52	13° 8 27'57	0.00200710	min. Earth dist.	5432 Apr 23 12:21	29° Υ 00'54	0.62658 AU
desc. node	5431 May 20 01:23	11° 8 35'30		morning rise	5432 Apr 26 23:52	25°Υ53'13	0.02000110
direct	5431 May 22 07:21	11° 8 20'55		direct	5432 May 03 19:59	23° Ƴ 19'37	
morning max el	5431 Jun 05 14:35	19° 8 16'03	27°44'28	desc. node	5432 May 05 22:24	23° Y 32'54	
C	5431 Jun 14 16:54	0° I I			5432 May 16 11:53	0°8	
	5431 Jul 03 00:09	0ಂತ		morning max el	5432 May 17 21:05	1° 8 20'23	27°51'25
morning set	5431 Jul 07 22:24	9° 9 51'06		•	5432 Jun 07 21:37	$\Pi^{\circ}0$	
asc. node	5431 Jul 10 20:00	15° © 57'58		morning set	5432 Jun 20 22:32	24° Ⅲ 01'37	
max. Earth dist.	5431 Jul 14 02:14	23° © 02'35	1.31988 AU		5432 Jun 23 20:12	0 \circ \odot	
				max. Earth dist.	5432 Jun 26 08:59	5° 5 21'57	1.32477 AU
superior conj	5431 Jul 15 04:18	25° © 25'56	0°43'57	asc. node	5432 Jun 26 17:03	6° 5 05'14	
minimum elong	5431 Jul 15 02:30	25° © 16'00	0°43'34				
	5431 Jul 17 06:02	$0^{\circ}\Omega$		superior conj	5432 Jun 28 13:11	10° © 03'36	0°19'02
evening rise	5431 Jul 21 23:30	10° Ω 17'20		minimum elong	5432 Jun 28 12:17	9° © 58'46	0°18'49
	5431 Aug 01 00:38	0°Щ		evening rise	5432 Jul 05 11:17	25° © 04'37	
desc. node	5431 Aug 16 00:37	21°Mp20'46			5432 Jul 07 19:33	0 $^{\circ}$ Ω	
evening max el	5431 Aug 18 01:05	23° m 23'04	25°24'46		5432 Jul 25 22:48	0°Щ	
	5431 Aug 28 14:05	0∘ ⊽		evening max el	5432 Jul 29 13:53	3° m 53'55	23°52'04
retrograde	5431 Aug 31 23:32	0° £ 27'04		desc. node	5432 Aug 01 21:39	6° m 45'53	
	5431 Sep 04 08:55	30°₹ ™		retrograde	5432 Aug 12 06:49	10° Mp 47'17	
evening set	5431 Sep 06 20:43	29° Mp 07'04	0.57025 ATT	evening set	5432 Aug 16 17:59	10°Mp03'19	0.56104.411
min. Earth dist.	5431 Sep 11 12:49		0.57835 AU	min. Earth dist.	5432 Aug 23 00:07	7° Mp 02'12	
inferior conj	5431 Sep 14 14:37	24° m/20'43 24° m/15'45		inferior conj	5432 Aug 25 07:08	5° m/38'40 5° m/43'48	
minimum elong morning rise	5431 Sep 14 17:29 5431 Sep 22 16:33	24° III 15'45 20° III 04'57	J 14 UJ	minimum elong morning rise	5432 Aug 25 03:46 5432 Sep 02 16:02	1° Mp 42'16	3 13 11
direct	5431 Sep 22 16:33 5431 Sep 25 04:20	19° Mp 46'06		direct	5432 Sep 02 16:02 5432 Sep 05 10:47	1° m/ 22'36	
morning max el	5431 Sep 23 04.20 5431 Oct 03 20:35		18°54'59	morning max el	5432 Sep 05 10.47 5432 Sep 15 13:30	6° Mp 05'14	19°58'35
asc. node	5431 Oct 06 19:16	27° m 08'02	10 5757	asc. node	5432 Sep 13 13:30 5432 Sep 22 16:18	14° Mp 55'24	1, 5055
ase. Houe	5431 Oct 08 19:10	27 ಗ್ಗು 08 02 0° ೧		use. Houe	5432 Oct 01 02:49	0° ∵	
morning set	5431 Oct 20 10:06	0 — 20° ≏ 25'22		morning set	5432 Oct 01 02:49	ս — 4° Ω 58'55	
	5431 Oct 25 16:50	0°M			, Jet 05 11.27	. —2000	
				superior conj	5432 Oct 11 08:19	20° ≏ 43'53	1°40'09
superior conj	5431 Oct 28 20:28	6°M53'51	1°29'01	minimum elong	5432 Oct 11 09:45	20° ♀ 50'59	1°40'06
. ,							

max. Earth dist.	5432 Oct 16 02:04 5432 Oct 17 01:07 5432 Oct 20 20:05	0°M 1°M49'22 8°M49'21	1.37006 AU	asc. node morning set	5433 Sep 09 13:21 5433 Sep 17 23:03 5433 Sep 22 20:21	3° 顺 26'50 19° 顺 44'04 0° 으	
desc. node	5432 Oct 28 20:54 5432 Nov 02 11:33	22° M .38′54 0° ∡ 7		gumariar agni	5433 Sep 25 06:15	5° ≙ 02'47	1°43'18
	5432 Nov 25 10:04	0 × · 0°ਰ		superior conj minimum elong	5433 Sep 25 06:11	5° £ 02'47	1°43'18
evening max el	5432 Nov 25 10:04 5432 Nov 25 12:59	0° ろ 07'06	25°39'14	max. Earth dist.	5433 Sep 29 11:45	13° ≗ 40'42	1.35178 AU
retrograde	5432 Dec 07 20:09	7°る10'09	23 37 14	evening rise	5433 Oct 03 17:24	21° ⊆ 55'44	1.55176 AC
evening set	5432 Dec 13 19:51	4° る 41'23		evening rise	5433 Oct 08 02:31	0°M	
min. Earth dist.	5432 Dec 18 04:16	29° ₹ 56'55	0.67128 AU	desc. node	5433 Oct 15 17:56	12°M58'11	
	5432 Dec 18 03:18	30°R ✓			5433 Oct 27 06:41	0° ∡ ¹	
inferior conj	5432 Dec 19 11:31	28° ҂ 17′22	-0°03'26	evening max el	5433 Nov 08 01:46	13° ∡ ¹48′20	26°38'35
minimum elong	5432 Dec 19 11:36	28° ҂ 17'05	0°03'22	retrograde	5433 Nov 21 01:43	21° х 03'47	
transit middle	5432 Dec 19 11:36	28° ≯ 17'05	0°03'22	evening set	5433 Nov 27 14:01	18° ≯ 26′26	
transit begin	5432 Dec 19 08:51	28° ≮ 25'52		min. Earth dist.	5433 Dec 01 15:52	14° ≯ 17'03	0.66095 AU
transit end	5432 Dec 19 14:22	28° ∡ 08'19		inferior conj	5433 Dec 03 10:32	12° ∡ 10′13	
asc. node	5432 Dec 19 15:34	28° 🗷 04'29		minimum elong	5433 Dec 03 12:17	12° х 04'59	1°02'11
morning rise	5432 Dec 25 03:47	22° 🖈 24'02		asc. node	5433 Dec 06 12:35	8° ∡ 744'14	
direct morning max el	5432 Dec 28 11:13 5433 Jan 04 10:32	21° 🖈 21'03 25° 🖈 12'58	19°08'22	morning rise direct	5433 Dec 09 11:21 5433 Dec 12 09:01	6° ₹ 27'25 5° ₹ 40'22	
morning max er	5433 Jan 08 13:50	23 x ・12 38	19 08 22	morning max el	5433 Dec 12 09:01 5433 Dec 18 22:50	9° х 14′21	18°24'57
greatest brilliancy	5433 Jan 18 07:16	13°る58'28	-0.8m	morning max cr	5434 Jan 02 14:28	0°る	10 2437
desc. node	5433 Jan 24 20:09	24°る01'56	-0.0111	morning set	5434 Jan 07 18:03	8° る 14'19	
morning set	5433 Jan 27 14:37	28° る 19'45		desc. node	5434 Jan 11 17:11	14°る34'20	
	5433 Jan 28 16:25	0° ≈			5434 Jan 21 11:18	0° ≈	
max. Earth dist.	5433 Feb 10 14:02	20° ≈ 09'17	1.44972 AU				
				superior conj	5434 Jan 23 10:26	3° ≈ 04'56	-1°15'39
superior conj	5433 Feb 13 07:05	24° ≈ 26′03	-1°51'14	minimum elong	5434 Jan 23 01:41	2° ≈ 30'36	1°14'38
minimum elong	5433 Feb 12 22:50	23° ≈ 53′25	1°50'36	max. Earth dist.	5434 Jan 24 08:35	4° ≈ 31'44	1.45350 AU
	5433 Feb 16 19:07	0° ∀		evening rise	5434 Feb 08 10:10	28° ≈ 10′21	
evening rise	5433 Feb 27 23:18	18°) €07'04			5434 Feb 09 13:59	0° ∀	
	5433 Mar 07 04:53	0°Υ		greatest brilliancy	5434 Feb 18 12:50	14°) €03'45	-0.8m
asc. node	5433 Mar 17 14:50	15° Υ 30'20	10020142	. ,	5434 Mar 01 20:06	0° Υ	10005140
evening max el	5433 Mar 19 18:32 5433 Mar 26 06:35	17° Y 55'04 21° Y 27'44	18°28'43	evening max el asc. node	5434 Mar 03 04:10 5434 Mar 04 11:53	1° Y 26'39 2° Y 41'57	19°05'49
retrograde evening set	5433 Mar 29 09:04	20° Y 34'10		retrograde	5434 Mar 10 02:02	5° Υ 20'54	
inferior conj	5433 Apr 04 04:14	15° Y 03'21	3°31'57	evening set	5434 Mar 13 11:31	4°Υ13'53	
minimum elong	5433 Apr 04 04:22	15° Υ 02'57	3°31'56	evening sec	5434 Mar 17 18:47	30°R) €	
min. Earth dist.	5433 Apr 06 08:23	12° Υ 29'59	0.64564 AU	inferior conj	5434 Mar 19 00:29	28°) 26'44	3°26'37
morning rise	5433 Apr 09 22:56	8° Y 51'00		minimum elong	5434 Mar 18 23:20	28° ∺ 30′27	3°26'30
direct	5433 Apr 16 16:52	6° Ƴ 03'06		min. Earth dist.	5434 Mar 20 13:09	26°) ₹30'05	0.66094 AU
desc. node	5433 Apr 22 19:26	7° Y 55'50		morning rise	5434 Mar 24 10:46	22° 升 12′00	
morning max el	5433 Apr 30 06:40	13° Y 59'16	27°22'25	direct	5434 Mar 30 20:28	19° ∺ 23'19	
	5433 May 13 05:39	0°8		desc. node	5434 Apr 09 16:27	24°) 11′28	
	5433 May 31 12:51	Π °0		morning max el	5434 Apr 12 16:35	27° ₩ 00'58	26°24'09
morning set	5433 Jun 04 14:10	7° Ⅱ 43'35			5434 Apr 15 11:33	0° Υ	
max. Earth dist.	5433 Jun 09 07:32	17° ⊥ 13′28	1.33424 AU	. ,	5434 May 06 20:58	0°8	
superior conj	5433 Jun 12 17:40	24° Ⅱ 23'33	0000140	morning set max. Earth dist.	5434 May 18 17:51 5434 May 22 19:05	20° 8 47'16 28° 8 34'12	1.34847 AU
minimum elong	5433 Jun 12 17:40 5433 Jun 12 18:08	24° II 25'57		max. Earth dist.	5434 May 23 12:29	0° Ⅱ	1.54647 AU
behind sun begin	5433 Jun 12 13:30	24° II 01'23	0 00 44		3434 Way 23 12.2)	νд	
behind sun end	5433 Jun 12 22:46	24° I I50'33		superior conj	5434 May 27 15:31	8° Ⅱ 19'32	-0°38'28
asc. node	5433 Jun 13 14:05	26° Ⅲ 12'02		minimum elong	5434 May 27 17:38	8° Ⅲ 30′23	
	5433 Jun 15 08:45	0ಂತ		asc. node	5434 May 31 11:08	16° Ⅱ 14'39	
evening rise	5433 Jun 19 22:31	9°545'38		evening rise	5434 Jun 04 07:16	24° Ⅱ 14'53	
	5433 Jun 30 11:13	$0^{\circ}\Omega$			5434 Jun 07 02:56	0ංම	
evening max el	5433 Jul 11 04:06	14° Ω 15′04	22°14'41	evening max el	5434 Jun 23 03:33	24°959'21	20°46'45
desc. node	5433 Jul 19 18:42	19° Ω 56'46			5434 Jun 30 19:04	$0^{\circ}\Omega$	
retrograde	5433 Jul 24 01:58	20° Ω 39'47		retrograde	5434 Jul 04 14:10	0° Ω 36'31	
evening set	5433 Jul 27 01:31	20° Ω 20'06	0.55014.433	evening set	5434 Jul 06 16:30	0° Ω 25'58	
min. Earth dist.	5433 Aug 04 10:10		0.55014 AU	desc. node	5434 Jul 06 15:42	0° Ω 26'17	
inferior conj	5433 Aug 05 06:36	16° Ω 14'24		inforior cor:	5434 Jul 08 13:10	30°R© 36°©30'01	20/2/50
minimum elong	5433 Aug 04 22:06 5433 Aug 13 20:26	16° Ω 26'24 12° Ω 24'34	4 20 32	inferior conj minimum elong	5434 Jul 15 23:36 5434 Jul 15 16:10	26° © 29'01 26° © 39'36	
morning rise direct	5433 Aug 17 00:50	$12^{\circ} 0.2434$ $12^{\circ} 0.01'49$		min. Earth dist.	5434 Jul 16 21:03	26°939'36 25°958'29	0.54825 AU
morning max el	5433 Aug 28 18:09	17° Ω 30'24	21°23'04	morning rise	5434 Jul 24 15:33	23° 9 36'29	5.5 1025 AU
	5433 Sep 07 12:05	0°m		direct	5434 Jul 28 10:03	21°956'12	
	-r	٩				-	

morning max el	5434 Aug 10 12:24	28° © 13'35	23°03'02	direct	5435 Jul 09 02:31	1° © 35'17	
-	5434 Aug 12 07:21	$0^{\circ}\Omega$		morning max el	5435 Jul 23 01:57	8°534'47	24°46'56
asc. node	5434 Aug 27 10:23	22° Ω 31'40			5435 Aug 07 21:33	$0^{\circ}\Omega$	
	5434 Aug 31 05:07	0° m ∕		asc. node	5435 Aug 14 07:25	12° Ω 01′20	
morning set	5434 Sep 02 10:06	4° Mp 35′28		morning set	5435 Aug 17 21:52	19° Ω 28'14	
					5435 Aug 22 18:37	0° ™	
superior conj	5434 Sep 09 11:01	19° m 41'03	1°39'39				
minimum elong	5434 Sep 09 09:46	19° m 34'23	1°39'36	superior conj	5435 Aug 24 20:08	4° ™ 31'01	1°30'13
max. Earth dist.	5434 Sep 12 07:12	25° m 42'30	1.33724 AU	minimum elong	5435 Aug 24 18:08	4° Mp 20′05	1°30'00
	5434 Sep 14 08:51	0∘ ಹ		max. Earth dist.	5435 Aug 26 11:00	8° Mp 02'33	1.32688 AU
evening rise	5434 Sep 17 04:27	5° ≏ 40'35		evening rise	5435 Sep 01 01:35	19° ™ 53'43	
	5434 Sep 30 18:15	0°M			5435 Sep 06 04:35	0∘ ⊽	
desc. node	5434 Oct 02 14:58	2°M56'55		desc. node	5435 Sep 19 11:58	22° £ 26'30	
evening max el	5434 Oct 21 14:25	27°M17'30	27°16'43		5435 Sep 24 22:04	0°M	
	5434 Oct 24 16:25	0° ∡		evening max el	5435 Oct 04 01:00	10°M21'51	27°27'01
retrograde	5434 Nov 04 01:13	4° 🖈 35'33		retrograde	5435 Oct 17 18:07	17°M37'22	
evening set	5434 Nov 10 23:46	1° ∡ 756'19		evening set	5435 Oct 24 22:08	15°M05'29	0.62026.444
i matra	5434 Nov 13 05:06	30°RM	0.64722.441	min. Earth dist.	5435 Oct 28 13:53	12°M01'56	0.63026 AU
min. Earth dist.	5434 Nov 14 19:44		0.64722 AU	inferior conj	5435 Oct 31 08:03	9°M20'38	
inferior conj	5434 Nov 17 02:16	25°M53'21 25°M43'19		minimum elong	5435 Oct 31 13:32	9°M07'13	3°08'03
minimum elong	5434 Nov 17 05:57	20°M28'24	2 04 34	morning rise direct	5435 Nov 07 06:34 5435 Nov 09 15:53	4°M08'33	
asc. node morning rise	5434 Nov 23 09:38 5434 Nov 23 13:21	20°11L28'24 20°11L24'09		asc. node	5435 Nov 10 06:39	3°M41'52 3°M43'41	
direct	5434 Nov 26 03:33	19°M49'05		morning max el	5435 Nov 16 07:40	7°M07'37	17940'10
morning max el	5434 Nov 20 03:33 5434 Dec 02 14:50	23°M14'39	17°58'21	morning max er	5435 Nov 10 07:40 5435 Dec 01 06:55	/ 1160/3/ 0° √ 7	1/4919
morning max ci	5434 Dec 08 00:14	23 liG1439 0° √ 7	17 3821	morning set	5435 Dec 01 00:35	0 x 2° x 09'15	
morning set	5434 Dec 20 02:56	19° ∡ 136′18		morning set	3433 DCC 02 12.20	2 × 09 13	
morning set	5434 Dec 26 09:07	0° 궁		superior conj	5435 Dec 14 07:28	22° ₹ 26'29	0°15'14
desc. node	5434 Dec 29 14:11	5° ♂ 15'00		minimum elong	5435 Dec 14 07:28	22°×32'50	
dese. Hode	31311200 27 11.11	3 013 00		behind sun begin	5435 Dec 14 05:39	22°×18'55	0 13 02
superior conj	5435 Jan 02 21:25	12° る 11'06	-0°29'45	behind sun end	5435 Dec 14 12:20	22° х 46'44	
minimum elong	5435 Jan 02 17:49	11° る 56'44		desc. node	5435 Dec 16 11:13	26° ₹ '00'46	
max. Earth dist.	5435 Jan 07 04:06	18° る 58'54			5435 Dec 18 21:44	0°₹	
	5435 Jan 14 05:10	0° ≈		max. Earth dist.	5435 Dec 20 21:29	3° る 12'50	1.43926 AU
evening rise	5435 Jan 19 02:25	7° ≈ 33'08		evening rise	5435 Dec 29 12:45	16° る 48'27	
greatest brilliancy	5435 Feb 02 11:33	29° ≈ 21'23	-0.6m	C	5436 Jan 07 05:16	0°≈	
	5435 Feb 02 22:04	0°) €		evening max el	5436 Jan 28 08:44	28° ≈ 34'57	21°05'14
evening max el	5435 Feb 14 09:13	15°) €00'24	19°58'52		5436 Jan 29 19:52	0°) €	
asc. node	5435 Feb 19 08:55	18°) 49′24		retrograde	5436 Feb 05 22:03	3°) €38'41	
retrograde	5435 Feb 21 23:54	19° ∺ 25'53		asc. node	5436 Feb 06 05:56	3°) 38′06	
evening set	5435 Feb 25 17:31	18°) €04'35		evening set	5436 Feb 10 01:09	2° ∺ 02′22	
inferior conj	5435 Mar 03 02:57	12°) €03'06	3°08'41		5436 Feb 12 03:44	30° R ≈	
minimum elong	5435 Mar 03 00:56	12° 米 09′51	3°08'19	inferior conj	5436 Feb 15 09:12	25° ≈ 49'06	2°40'33
min. Earth dist.	5435 Mar 04 01:06	10°) 48′44	0.67194 AU	minimum elong	5436 Feb 15 06:49	25° ≈ 57′20	2°39'57
morning rise	5435 Mar 08 08:09	5°) 48′24		min. Earth dist.	5436 Feb 15 18:17	25°≈17'44	0.67867 AU
direct	5435 Mar 14 05:35	3° ¥ 10′22		morning rise	5436 Feb 20 12:19	19° ≈ 36′02	
morning max el	5435 Mar 26 01:34	10°) 14'46	25°05'52	direct	5436 Feb 25 19:34	17°≈16′12	
desc. node	5435 Mar 27 13:27	11°) 48'31		morning max el	5436 Mar 07 10:26	23°≈35'36	23°37'42
	5435 Apr 10 17:36	0°Υ		desc. node	5436 Mar 13 10:28	0°) €24'01	
	5435 Apr 29 12:29	0° 8			5436 Mar 13 02:40	0°) €	
morning set	5435 May 01 04:54	2° 8 59'14	1.26702 444		5436 Apr 03 03:15	0°Υ 14° Υ 04!25	
max. Earth dist.	5435 May 04 20:12	9° 8 37'20	1.36702 AU	morning set	5436 Apr 11 17:33	14° Υ 04'25	1 20041 411
	5425 Mars 11 02,47	210 42122	1000121	max. Earth dist.	5436 Apr 15 15:59	20° Y 52'36	1.38841 AU
superior conj	5435 May 11 03:47	21° 8 43'23			5436 Apr 20 17:37	0° 8	
minimum elong	5435 May 11 07:36 5435 May 15 07:15	22° ႘ 02'12 0° 川	1-0/43	superior conj	5436 Apr 23 02:45	4° 8 25'32	1926102
asc. node	5435 May 18 08:10	6° Ⅱ 08'46		minimum elong	5436 Apr 23 07:44	4° 8 49'00	
evening rise	5435 May 19 11:16	8° Ⅱ 25'30		evening rise	5436 May 02 07:49	22° 8 10'03	1 33 40
ovening floc	5435 May 19 11:10 5435 May 31 09:57	0°9		asc. node	5436 May 04 05:12	25° 8 49'48	
evening max el	5435 Jun 05 15:30	6° 9 23'51	19°36'21	uoc. nouc	5436 May 06 09:47	0°II	
retrograde	5435 Jun 15 08:31	11°908'50	17 3021	evening max el	5436 May 18 14:44	18° Ⅱ 29'34	18°46'15
evening set	5435 Jun 17 06:35	10°958'31		retrograde	5436 May 26 19:29	22° I [31'31	
desc. node	5435 Jun 23 12:42	8°926'16		evening set	5436 May 28 22:11	22° I 16'26	
inferior conj	5435 Jun 26 00:46	6°954'26	-0°45'00	inferior conj	5436 Jun 05 20:49	17° I I55'23	1°01'12
minimum elong	5435 Jun 25 22:44	6°957'39		minimum elong	5436 Jun 05 23:03	17° Ⅲ 53′ 2 3	1°00'24
min. Earth dist.	5435 Jun 28 09:57	5°924'33		min. Earth dist.	5436 Jun 09 02:32	15° Ⅱ 33'36	0.57160 AU
morning rise	5435 Jul 04 12:29	2° © 22'07	-	desc. node	5436 Jun 09 09:44	15° Ⅲ 21'06	-
<i>S</i> -							

morning rise	5436 Jun 13 20:35	12° Ⅱ 46′26		direct	5437 Jun 01 05:09	22° 8 11'43	
direct	5436 Jun 19 08:46	11° Ⅲ 32′20		morning max el	5437 Jun 15 14:25	0° Ⅱ 01'16	27°23'13
morning max el	5436 Jul 03 17:20	19° Ⅱ 02'40	26°18'38		5437 Jun 15 13:54	0°Щ	
	5436 Jul 12 23:17	0°9			5437 Jul 06 22:55	0ಂತಾ	
	5436 Jul 30 07:32	$0^{\circ}\Omega$		morning set	5437 Jul 16 16:53	18° © 54'45	
asc. node	5436 Jul 31 04:27	1° Ω 48'11		asc. node	5437 Jul 18 01:30	21°5546'48	
morning set	5436 Aug 01 08:41	4° Ω 16′22			5437 Jul 21 20:34	0 \circ Ω	
superior conj	5436 Aug 08 07:30	19° Ω 25'06	1°15'43	superior conj	5437 Jul 23 19:18	4° Ω 17'35	0°56'44
minimum elong	5436 Aug 08 05:12		1°15'21	minimum elong	5437 Jul 23 17:11	4°Ω05'52	0°56'19
max. Earth dist.	5436 Aug 08 20:12	20°Ω35'13	1.32079 AU	max. Earth dist.	5437 Jul 23 07:23	3°Ω11'46	1.31898 AU
max. Earth dist.	-	0° m	1.32079 AU	evening rise	5437 Jul 30 14:29	19° Ω 08'30	1.31696 AU
ovanina rias	5436 Aug 13 03:42	بران 0 4° 10) 25'24		evening rise		0° m	
evening rise	5436 Aug 15 05:43	4 11/23 24 0° Ω		desc. node	5437 Aug 04 22:02	رانا ن 29° الل 02'43	
dasa mada	5436 Aug 28 21:26 5436 Sep 05 09:00	0 <u></u> 11° - 214'07		desc. node	5437 Aug 23 06:02	29 110243 0° Ω	
desc. node		22° £ 47'01	27°04'53	avanina may al	5437 Aug 24 01:31	0 <u></u> 4° 24'31	26°09'35
evening max el	5436 Sep 15 06:51		27 04 33	evening max el	5437 Aug 28 05:48	11° £ 32'08	20 09 33
retrograde	5436 Sep 29 03:48	29° £ 58'47		retrograde	5437 Sep 11 04:56		
evening set	5436 Oct 06 05:10	27° Ω 46'08	0.61064.411	evening set	5437 Sep 17 16:01	9° £ 50'49	0.50000 ATT
min. Earth dist.	5436 Oct 09 21:16	25° £ 04'41	0.61064 AU	min. Earth dist.	5437 Sep 21 18:47		0.58988 AU
inferior conj	5436 Oct 13 00:34	22° £ 22'48		inferior conj	5437 Sep 25 00:21	4° £ 50'39	
minimum elong	5436 Oct 13 06:59	22° Ω 08'59	4°08'15	minimum elong	5437 Sep 25 05:29	4° £ 41'00	4°56'47
morning rise	5436 Oct 20 10:48	17° £ 31'15		morning rise	5437 Oct 02 21:11	0° £ 21'41	
direct	5436 Oct 22 18:09	17° Ω 09'48		direct	5437 Oct 05 06:04	0° Ω 02'40	10000110
asc. node	5436 Oct 27 03:41	18° £ 31'22	. = . =	morning max el	5437 Oct 13 06:44	3° Ω 55'26	18°28'18
morning max el	5436 Oct 29 22:07	20° £ 44'19	17°58'50	asc. node	5437 Oct 14 00:44	4° Ω 40'32	
	5436 Nov 05 20:59	0°M		morning set	5437 Oct 29 07:45	29° Ω 31'45	
morning set	5436 Nov 14 15:43	15°M32'46			5437 Oct 29 13:37	0°M₊	
	5436 Nov 22 14:01	0°⊀					
				superior conj	5437 Nov 07 06:51	16°M35'35	
superior conj	5436 Nov 24 19:52	3° ₹ 58′23	0°52'02	minimum elong	5437 Nov 07 10:27	16°M52'15	
minimum elong	5436 Nov 24 23:37	4° √ 14'49	0°51'32	max. Earth dist.	5437 Nov 14 17:16	29°M55'01	1.40299 AU
desc. node	5436 Dec 02 08:14	16° ₹ 47'43			5437 Nov 14 18:25	0° ∡	
max. Earth dist.	5436 Dec 02 09:57	16° ₹ 54'51	1.42296 AU	evening rise	5437 Nov 19 01:12	7° ∡ 15'37	
evening rise	5436 Dec 08 08:46	26° ₹ 33'48		desc. node	5437 Nov 19 05:16	7° ∡ ³32'31	
	5436 Dec 10 13:05	0°ಕ			5437 Dec 03 15:07	0°ಕ	
	5436 Dec 31 00:56	0° ≈		evening max el	5437 Dec 23 17:38	25° る 50'21	23°41'01
evening max el	5437 Jan 10 03:01	12°≈10′54	22°21'04		5437 Dec 28 14:40	0° ≈	
retrograde	5437 Jan 19 18:39	17° ≈ 55'18		retrograde	5438 Jan 03 12:14	2° ≈ 11'51	
asc. node	5437 Jan 23 02:57	16°≈56'36		evening set	5438 Jan 08 14:45	0°≈04'46	
evening set	5437 Jan 24 08:46	16° ≈ 03'33		_	5438 Jan 08 16:59	30°Rる	
inferior conj	5437 Jan 29 17:12	9° ≈ 41'54	2°03'50	asc. node	5438 Jan 09 24:00	28° る 45'23	
minimum elong	5437 Jan 29 14:55	9° ≈ 49'49	2°03'05	min. Earth dist.	5438 Jan 13 11:12	24° る 25'57	0.68027 AU
min. Earth dist.	5437 Jan 29 14:27	9° ≈ 51'27	0.68133 AU	inferior conj	5438 Jan 14 01:03	23° る 38'42	1°19'33
morning rise	5437 Feb 03 20:56	3°≈31'51		minimum elong	5438 Jan 13 23:20	23° る 44'34	1°18'55
direct	5437 Feb 08 13:32	1°≈34'02		morning rise	5438 Jan 19 07:52	17° る 33'25	
morning max el	5437 Feb 17 21:59	7°≈03'33	22°09'20	direct	5438 Jan 23 10:34	15°る58'14	
desc. node	5437 Feb 28 07:30	19° ≈ 41'32		morning max el	5438 Jan 31 15:35	20° ප් 41'32	20°48'35
	5437 Mar 07 14:36	0°) (5438 Feb 08 09:58	0° ≈	
morning set	5437 Mar 23 02:32	23°) € 50'18		desc. node	5438 Feb 15 04:31	9° ≈ 29'10	
	5437 Mar 26 20:49	0°Υ			5438 Feb 28 20:03	0° ∀	
max. Earth dist.	5437 Mar 28 13:23	2° Ƴ 49'17	1.41021 AU	morning set	5438 Mar 02 08:55	2°) (23'15	
	5425 4 05 05 40	1.60001.511.0	1055150	max. Earth dist.	5438 Mar 10 17:26	15°) (40′16	1.42970 AU
superior conj	5437 Apr 05 07:49	16°Υ15'12			542036 15 14 04	2501/00155	2000155
minimum elong	5437 Apr 05 12:23	16° Y 35'32	1°57'35	superior conj	5438 Mar 17 14:04	27°) (00'55	
	5437 Apr 12 20:49	0°8		minimum elong	5438 Mar 17 15:13	27°) (05'45	2°08'54
evening rise	5437 Apr 15 17:27	5° 8 19'43			5438 Mar 19 08:21	0°Υ 15° Ω 140 1	
asc. node	5437 Apr 21 02:15	15° 8 12'34		evening rise	5438 Mar 29 11:56	17° Ƴ 44'04	
	5437 Apr 30 19:27	0° П	1001622		5438 Apr 05 11:16	0° 8	
evening max el	5437 May 01 22:02	1° Ⅱ 09'30	18°16'33	asc. node	5438 Apr 07 23:18	4° 8 09'59	1000000
retrograde	5437 May 09 01:19	4° Ⅱ 43'38		evening max el	5438 Apr 15 09:47	14° 8 13'00	18°06'29
evening set	5437 May 11 11:03	4° Ⅱ 20′10		retrograde	5438 Apr 21 23:06	17° 8 35'14	
	5437 May 18 04:46	30°R8	2010115	evening set	5438 Apr 24 15:39	17° 8 00'58	2005:25
inferior conj	5437 May 18 14:33	29° 8 39'02		inferior conj	5438 May 01 03:27	11° 8 59'32	3°05'27
minimum elong	5437 May 18 18:01	29° 8 31'35		minimum elong	5438 May 01 06:04	11° 8 53'03	3°05'00
min. Earth dist.	5437 May 22 00:42	26° 8 43'52	0.59225 AU	min. Earth dist.	5438 May 04 06:07	8° 8 55'54	0.61440 AU
morning rise	5437 May 25 22:02	24° 8 00'02		morning rise	5438 May 07 18:33	6° 8 01'18	
desc. node	5437 May 27 06:45	23° 8 18'27		desc. node	5438 May 14 03:47	3° 8 41'46	

direct	5438 May 14 12:41	3° 8 41'21		desc. node	5439 May 01 00:49	16° Ƴ 44'04	
morning max el	5438 May 28 17:38	11° 8 40'12	27°51'58	morning max el	5439 May 11 01:32	23°Υ59'04	27°43'08
morning max ci	5438 Jun 12 03:53	0°II	27 31 30	morning max er	5439 May 16 11:11	0° 8	27 43 00
	5438 Jun 29 05:48	0°©			5439 Jun 05 12:30	0°II	
morning set	5438 Jun 30 20:34	3°916'42		morning set	5439 Jun 14 17:23	17° I I15'15	
asc. node	5438 Jul 04 22:33	11°951'46		max. Earth dist.	5439 Jun 19 20:25	27° I 47'45	1.32826 AU
max. Earth dist.	5438 Jul 06 16:44	15°939'46	1.32142 AU		5439 Jun 20 21:21	0ಂತಿ	
				asc. node	5439 Jun 21 19:35	1° © 58'50	
superior conj	5438 Jul 08 05:45	19° © 01'57	0°33'48				
minimum elong	5438 Jul 08 04:17	18°953'53	0°33'28	superior conj	5439 Jun 22 13:00	3° © 32'17	0°07'32
8	5438 Jul 13 05:55	$0^{\circ}\Omega$		minimum elong	5439 Jun 22 12:37	3°530'18	0°07'27
evening rise	5438 Jul 15 01:42	3° £ 55'40		behind sun begin	5439 Jun 22 07:53	3° 5 04'49	
	5438 Jul 28 22:38	0° m		behind sun end	5439 Jun 22 17:22	3° © 55'48	
evening max el	5438 Aug 09 21:32	15° m 15'30	24°47'01	evening rise	5439 Jun 29 13:28	18° © 40'38	
desc. node	5438 Aug 10 03:03	15° m 28'40		•	5439 Jul 05 02:35	$0^{\circ}\Omega$	
retrograde	5438 Aug 23 19:01	22° m 16'01		evening max el	5439 Jul 22 09:58	25° Ω 37'51	23°10'16
evening set	5438 Aug 29 02:37	21° m 12'22			5439 Jul 27 23:33	0° ™	
min. Earth dist.	5438 Sep 03 08:54	18° m 25'34	0.57043 AU	desc. node	5439 Jul 28 00:05	0° Mp 00'46	
inferior conj	5438 Sep 06 04:29	16° Mp35′29	-5°19'19	retrograde	5439 Aug 04 20:22	2°M/20'53	
minimum elong	5438 Sep 06 04:58	16° Mp 34'43	5°19'19	evening set	5439 Aug 08 15:50	1° m 49'09	
morning rise	5438 Sep 14 09:38	12° m 28'25			5439 Aug 13 04:41	30° R Ω	
direct	5438 Sep 16 23:56	12° m 09'27		min. Earth dist.	5439 Aug 15 19:01	28° Ω 34'38	0.55548 AU
morning max el	5438 Sep 26 06:05	16° Mp 30'51	19°19'16	inferior conj	5439 Aug 17 12:55	27° Ω 33'39	-4°58'24
asc. node	5438 Sep 30 21:47	21°M 56'10		minimum elong	5439 Aug 17 06:50	27° Ω 42'31	4°57'32
	5438 Oct 06 00:43	0∘ ত		morning rise	5439 Aug 26 00:07	23° Ω 42′06	
morning set	5438 Oct 13 08:28	13° ≙ 55'17		direct	5439 Aug 28 22:57	23° Ω 21′17	
				morning max el	5439 Sep 08 17:39	28° Ω 22'10	20°32'09
superior conj	5438 Oct 21 11:03	0°ML02'53	1°34'47		5439 Sep 10 08:50	0° ™	
minimum elong	5438 Oct 21 13:22	0° M ₊14'11	1°34'38	asc. node	5439 Sep 17 18:50	10° Mp 03'34	
	5438 Oct 21 10:27	0° M .		morning set	5439 Sep 27 14:54	28°M 34'36	
max. Earth dist.	5438 Oct 27 22:14	12°M15'58	1.38184 AU		5439 Sep 28 07:31	0∘ ত	
evening rise	5438 Oct 31 16:31	18° M 59'45					
desc. node	5438 Nov 06 02:19	28°M11'25		superior conj	5439 Oct 05 03:36	14° ≏ 06'14	1°42'23
	5438 Nov 07 04:48	0° ∡		minimum elong	5439 Oct 05 04:22	14° ≏ 10'07	1°42'23
	5438 Nov 27 20:25	0°ಕ		max. Earth dist.	5439 Oct 10 05:39	24° ≏ 12'43	1.36193 AU
evening max el	5438 Dec 06 06:39	9° ට 34'13	24°58'35		5439 Oct 13 06:44	0° M	
retrograde	5438 Dec 18 01:38	16° る 24'28		evening rise	5439 Oct 14 04:01	1°M38'45	
evening set	5438 Dec 23 17:34	14° පි 03'06		desc. node	5439 Oct 23 23:20	18°M39'21	
asc. node	5438 Dec 27 21:01	9° る 28'20			5439 Oct 31 06:43	0° ∡ 7	
min. Earth dist.	5438 Dec 28 06:13	8°る58'29	0.67561 AU	evening max el	5439 Nov 18 19:22	23°×18'03	26°06'36
inferior conj	5438 Dec 29 06:58	7°る37'08	0°28'38		5439 Nov 28 14:35	0°る	
minimum elong	5438 Dec 29 06:16	7° る 39'26	0°28'21	retrograde	5439 Dec 01 10:04	0°る26'52	
morning rise	5439 Jan 03 19:10	1°る38'42			5439 Dec 04 01:55	30°₹ ⋌	
direct	5439 Jan 07 09:14	0°る24'40	10040127	evening set	5439 Dec 07 15:26	27° 🖈 53'49	0.66720.444
morning max el	5439 Jan 14 17:07	4°₹31'38	19°40'37	min. Earth dist.	5439 Dec 11 21:02	23° x 24'24	0.66738 AU
greatest brilliancy	5439 Jan 27 17:52	21°る40'02	-0.7m	inferior conj	5439 Dec 13 09:04	21° 🖈 32'46	
desc. node	5439 Feb 02 01:34	29° る 39'05		minimum elong	5439 Dec 13 09:49	21° 🗷 30'26	0°2/'46
morning sot	5439 Feb 02 07:04 5439 Feb 09 05:21	0° ≈ 10° ≈ 36'31		asc. node	5439 Dec 14 18:03 5439 Dec 19 04:44	19° х 52'13 15° х 43'41	
morning set max. Earth dist.	5439 Feb 09 05:21 5439 Feb 21 05:21	10°≈36'31 29°≈21'40	1.44433 AU	morning rise direct	5439 Dec 19 04:44 5439 Dec 22 07:52	15°×'43'41 14°× 7 47'48	
max. Earth dist.	5439 Feb 21 05:21 5439 Feb 21 15:00	29 ≈ 21 40 0° H	1.44433 AU	morning max el	5439 Dec 29 02:05	18° × 30'22	10017151
	3439 FC0 21 13.00	0 /		morning max ci	5440 Jan 06 23:12	18 × 30 22	10 4/ 54
superior conj	5439 Feb 25 18:53	6° ₩ 39'31	-2°03'25	morning set	5440 Jan 19 16:48	0 ප 19° පි 41'48	
minimum elong	5439 Feb 25 13:48	6° ∺ 19'00		desc. node	5440 Jan 19 22:34	20°පි04'27	
evening rise	5439 Mar 11 10:55	29° X 15'38	2 02 11	dese. Houc	5440 Jan 26 06:29	20° ≈	
evening rise	5439 Mar 11 21:25	0°Υ		max. Earth dist.	5440 Feb 03 22:46	13° ≈ 35'47	1.45229 AU
asc. node	5439 Mar 25 20:19	22° Υ 34'24		max. Earth dist.	3110100 03 22.10	15 / 4 (55 17	1.1322) 110
evening max el	5439 Mar 29 22:44	27° Υ 32'03	18°15'18	superior conj	5440 Feb 05 03:02	15° ≈ 26'46	-1°38'05
2. Junia mun oi	5439 Apr 02 01:25	0° 8	10 10 10	minimum elong	5440 Feb 04 17:39	13 ≈ 20 4 0 14° ≈ 49'54	
retrograde	5439 Apr 05 08:29	0° 8 56'59			5440 Feb 14 07:52	0° ∀	/
evening set	5439 Apr 08 07:24	0° 8 10'33		evening rise	5440 Feb 20 11:01	9°) (49'58	
	5439 Apr 08 15:11	30°RΥ		greatest brilliancy	5440 Feb 26 20:51	20° X 10'20	-0.9m
inferior conj	5439 Apr 14 07:33	24° Υ 49'50	3°27'56	5-1y	5440 Mar 04 02:38	0°Υ	
minimum elong	5439 Apr 14 08:35	24° Υ 46'56	3°27'50	asc. node	5440 Mar 11 17:20	10° Y 15'47	
min. Earth dist.	5439 Apr 16 20:30	22° Υ 00'43	0.63517 AU	evening max el	5440 Mar 12 10:09	10° Y 59'54	18°42'23
morning rise	5439 Apr 20 08:44	18° Y 41'03		retrograde	5440 Mar 19 01:21	14° Υ 40'26	-
direct	5439 Apr 27 04:56	15° Y 59'47		evening set	5440 Mar 22 06:46	13° Υ 41'05	
	r			3 *			

: <i>C</i> :	5440 M 27 22:54	8° Y '02'48	2021125		5441 Mar 02 22:15	28° ¥ 38'49	
inferior conj	5440 Mar 27 22:54	8° Υ 04'14	3°31'25	retrograde	5441 Mar 02 22:15	28 ★3849 27°¥25'52	
minimum elong min. Earth dist.	5440 Mar 27 22:26	5° Υ 44'18	3°31'23 0.65266 AU	evening set inferior conj	5441 Mar 06 10:58	21° H 32'07	3°20'22
	5440 Mar 29 20:16	3 1 44 18 1° Υ 49'04	0.03200 AU		5441 Mar 11 22:08 5441 Mar 11 20:33	21° X 3207 21° X 37'17	3°20'10
morning rise	5440 Apr 02 13:36 5440 Apr 05 04:41	1 1 49 04 30°R) €		minimum elong min. Earth dist.		19°) 53'07	0.66610 AU
direct	5440 Apr 09 04:31	30 KX 28° ¥ 59'38			5441 Mar 13 04:25 5441 Mar 17 05:50	19 ★3507 15°¥16'54	0.00010 AU
direct	5440 Apr 13 12:04	26 π3936 0° Υ		morning rise		13 X 16 34 12° X 31'41	
desc. node		0° γ 1° Υ 58'43		direct desc. node	5441 Mar 23 10:31 5441 Apr 03 18:50	12° ★ 31'41 18° ★ 52'00	
	5440 Apr 16 21:50	6° Υ 49'13	27900149		-	18 ₹ 3200 19° ¥ 57'40	25°52'44
morning max el	5440 Apr 22 11:40		27°00'48	morning max el	5441 Apr 04 21:28	19° π 3/40 0° Υ	25*52*44
	5440 May 10 08:09	8°0			5441 Apr 13 11:41		
	5440 May 27 19:40	0°П			5441 May 03 11:02	0°8	
morning set	5440 May 28 04:26	0° ∏ 42'08	1 22072 444	morning set	5441 May 11 01:41	13° 8 25'26	1 25502 444
max. Earth dist.	5440 Jun 01 14:50	9° Ⅱ 27'13	1.33972 AU	max. Earth dist.	5441 May 14 21:41	20° 8 37'45	1.35583 AU
	5440 1 05 14 50	1.70 T 40120	0001114		5441 May 19 16:08	Π $^{\circ}0$	
superior conj	5440 Jun 05 14:58	17° Ⅱ 42'39			5441 14 20 00 05	101125124	0051114
minimum elong	5440 Jun 05 16:06	17° Ⅱ 48'34	0°21'01	superior conj	5441 May 20 09:05	1° Ⅱ 25'24	
asc. node	5440 Jun 07 16:37	22° Ⅱ 04'10		minimum elong	5441 May 20 11:57	1° Ⅱ 39'50	0°50'43
	5440 Jun 11 10:22	0°©		asc. node	5441 May 25 13:38	12° Ⅱ 03'14	
evening rise	5440 Jun 12 23:54	3° © 17'33		evening rise	5441 May 28 06:56	17° Ⅲ 39'21	
	5440 Jun 27 22:21	0° Ω			5441 Jun 03 13:28	0°50	
evening max el	5440 Jul 03 03:13	6° Ω 04'58	21°35'27	evening max el	5441 Jun 15 07:49	17° © 04'43	20°14'26
desc. node	5440 Jul 13 21:05	12° Ω 05'36		retrograde	5441 Jun 26 01:11	22° © 19'50	
retrograde	5440 Jul 15 11:37	12° Ω 11'42		evening set	5441 Jun 27 23:40	22° © 10'17	
evening set	5440 Jul 18 00:00	11° Ω 57'18		desc. node	5441 Jun 30 18:07	21° © 26'03	
inferior conj	5440 Jul 27 07:57	7° Ω 56'45	-3°45'20	inferior conj	5441 Jul 07 02:41	18° © 11'57	-1°53'44
minimum elong	5440 Jul 26 23:03	8° Ω 09'11	3°42'49	minimum elong	5441 Jul 06 21:23	18° © 19'48	1°51'49
min. Earth dist.	5440 Jul 27 04:55	8° Ω 00'59	0.54811 AU	min. Earth dist.	5441 Jul 08 16:46	17° © 15'48	0.55030 AU
morning rise	5440 Aug 04 23:16	4° Ω 04'39		morning rise	5441 Jul 15 17:45	13° © 58'14	
direct	5440 Aug 08 08:58	3° Ω 39′29		direct	5441 Jul 19 19:36	13° 5 22'11	
morning max el	5440 Aug 20 17:29	9° Ω 28'27	22°04'20	morning max el	5441 Aug 02 09:05	19° © 59'24	23°47'42
asc. node	5440 Sep 03 15:52	28° Ω 50'33			5441 Aug 10 20:08	$0^{\circ}\Omega$	
	5440 Sep 04 07:03	O° Mp		asc. node	5441 Aug 21 12:54	18° Ω 06′23	
morning set	5440 Sep 11 00:50	13° Mp 23'35		morning set	5441 Aug 26 12:22	28° Ω 15'44	
					5441 Aug 27 08:00	0° ™	
superior conj	5440 Sep 18 04:50	28° m/34'57	1°42'31		5441 Aug 27 08:00	0° m)	
superior conj minimum elong	5440 Sep 18 04:50 5440 Sep 18 04:13	28° m/34'57 28° m/31'43	1°42'31 1°42'31	superior conj	5441 Aug 27 08:00 5441 Sep 02 11:45	0° m) 13° m) 18'56	1°36'20
	•			superior conj minimum elong	-	•	1°36'20 1°36'11
	5440 Sep 18 04:13	28° m 31'43			5441 Sep 02 11:45	13° m/ 18'56	
minimum elong	5440 Sep 18 04:13 5440 Sep 18 21:01	28° ™ 31'43 0° ≏	1°42'31	minimum elong	5441 Sep 02 11:45 5441 Sep 02 10:08	13° mp 18'56 13° mp 10'11	1°36'11
minimum elong max. Earth dist.	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02	28° № 31'43 0° <u>•</u> 6° <u>•</u> • • • • • • • • • • • • • • • • • •	1°42'31	minimum elong max. Earth dist.	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56	13° Mp 18'56 13° Mp 10'11 18° Mp 15'11	1°36'11
minimum elong max. Earth dist.	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41	28° № 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55	1°42'31	minimum elong max. Earth dist.	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24	13° m/ 18'56 13° m/ 10'11 18° m/ 15'11 29° m/ 00'31	1°36'11
minimum elong max. Earth dist. evening rise	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03	28° № 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M.	1°42'31	minimum elong max. Earth dist. evening rise	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° •	1°36'11
minimum elong max. Earth dist. evening rise	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55	1°42'31 1.34508 AU	minimum elong max. Earth dist. evening rise	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14	1°36′11 1.33225 AU
minimum elong max. Earth dist. evening rise desc. node	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52	28° ₱ 31'43 0° ₽ 6° ₽ 07'37 15° ₽ 02'55 0° M 8° M 50'55 0° ⊀	1°42'31 1.34508 AU	minimum elong max. Earth dist. evening rise desc. node	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° M	1°36′11 1.33225 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03	28° № 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ズ 6° ズ 54'54	1°42'31 1.34508 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° M 20° M 14'16	1°36′11 1.33225 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x 6° x 54'54 14° x 12'29	1°42'31 1.34508 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° M 20° M 14'16 27° M 32'36	1°36′11 1.33225 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x 6° x 54'54 14° x 12'29 11° x 33'00	1°42'31 1.34508 AU 26°57'38 0.65561 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° <u>a</u> 28° <u>a</u> 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59	1°36'11 1.33225 AU 27°24'45 0.64036 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x 7' 6° x 54'54 14° x 12'29 11° x 33'00 7° x 38'52	1°42'31 1.34508 AU 26°57'38 0.65561 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° \(\Omega\) 28° \(\Omega\) 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x ¹ 6° x ² 54'54 14° x ² 12'29 11° x ² 33'00 7° x ² 38'52 5° x ² 21'50	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \(\Omega\) 28° \(\Omega\) 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x ' 6° x' 54'54 14° x' 12'29 11° x' 33'00 7° x' 38'52 5° x' 21'50 5° x' 14'30	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° \(\Omega\) 28° \(\Omega\) 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49 5440 Nov 30 15:05	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x ' 6° x' 54'54 14° x' 12'29 11° x' 33'00 7° x' 38'52 5° x' 12'50 5° x' 14'30 0° x' 54'08	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° \(\Omega\) 28° \(\Omega\) 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54	28° m 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° RML	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \omega 28° \omega 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x ' 6° x' 54'54 14° x' 12'29 11° x' 33'00 7° x' 38'52 5° x' 12'50 5° x' 14'30 0° x' 54'08 30° R m 29° m 44'44	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \omega 28° \omega 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 05 04:30	28° m 31'43 0° <u>a</u> 6° <u>a</u> 07'37 15° <u>a</u> 02'55 0° m 8° m 50'55 0° x' 6° x' 54'54 14° x' 12'29 11° x' 33'00 7° x' 38'52 5° x' 21'50 5° x' 14'30 0° x' 54'08 30° RM 29° m 44'44 29° m 03'19	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° Ω 28° Ω 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 08 11:11	28° m 31'43 0° \(\text{\sigma} \) 6° \(\text{\sigma} \) 15° \(\text{\sigma} \) 202'55 0° \(\text{m} \) 8° \(\text{m} \) 50' \(\text{sigma} \) 6° \(\text{sigma} \) 6° \(\text{sigma} \) 6° \(\text{sigma} \) 12'29 11° \(\text{sigma} \) 33'00 7° \(\text{sigma} \) 33'52 5° \(\text{sigma} \) 14'30 0° \(\text{sigma} \) 30° \(\text{m} \) 29° \(\text{m} \) 44'44 29° \(\text{m} \) 0° \(\text{sigma} \)	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43 13° m 15'05 13° m 05'48 16° m 30'40 0° 🔀	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 08 11:11 5440 Dec 11 16:22	28° m 31'43 0° \(\text{\te}\text{\texit{\text{\tex{\text{\texi\text{\text{\texit{\texi\text{\text{\texit{\texit{\tex{\text{\text{\texi{\text{\texi{\texi{\texi{\texi{\texi{\texi{\t	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43 13° m 15'05 13° m 05'48 16° m 30'40 0° 7 12° 708'39	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 24 22:52 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 08 11:11 5440 Dec 11 16:22 5440 Dec 30 08:56	28° № 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° R M 29° M 44'44 29° M 03'19 0° ¾ 2° ¾ 32'22 0° ♂ 14'08	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 20:08	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43 13° m 15'05 13° m 05'48 16° m 30'40 0° ♂ 12° ♂ 08'39 0° ♂	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 08 11:11 5440 Dec 11 16:22 5440 Dec 30 08:56 5440 Dec 30 05:27	28° № 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° R M 29° M 44'44 29° M 03'19 0° ¾ 2° ¾ 32'22 0° ♂ 14'08 0° ♂	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 20:08	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° Ω 28° Ω 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43 13° m 15'05 13° m 05'48 16° m 30'40 0° ♂ 12° ♂ 08'39 0° ♂	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 08 11:11 5440 Dec 11 16:22 5440 Dec 30 08:56 5440 Dec 30 05:27	28° № 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° R M 29° M 44'44 29° M 03'19 0° ¾ 2° ¾ 32'22 0° ♂ 14'08 0° ♂	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 23 16:37	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° \(\Omega\) 28° \(\Omega\) 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43 13° m 15'05 13° m 05'48 16° m 30'40 0° \(\omega\) 12° \(\omega\) 08'39 0° \(\omega\) 1° \(\omega\) 23'54	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 03 08:56 5440 Dec 30 08:56 5440 Dec 30 05:27 5441 Jan 05 19:35	28° m 31'43 0° a 6° a 07'37 15° a 02'55 0° m 8° m 50'55 0° x 6° x 54'54 14° x 12'29 11° x 33'00 7° x 38'52 5° x 21'50 5° x 14'30 0° x 54'08 30° R m 29° m 44'44 29° m 03'19 0° x 32'22 0° 514'08 0° 5 10° 540'37	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 23 16:37	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° Ω 28° Ω 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° 12° 708'39 0° 1° 7523'54	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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 superior conj	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 03 08:56 5440 Dec 30 08:56 5440 Dec 30 08:56 5440 Dec 30 08:56 5440 Dec 30 19:35	28° m 31'43 0° a 6° a 07'37 15° a 02'55 0° m 8° m 50'55 0° x 6° x 54'54 14° x 12'29 11° x 33'00 7° x 38'52 5° x 21'50 5° x 14'30 0° x 54'08 30° R m 29° m 44'44 29° m 03'19 0° x 32'22 0° 514'08 0° 5 10° 540'37	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31	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	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 10:08 5441 Dec 23 16:37	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° Ω 28° Ω 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° 12° 20'8'39 0° 3° 1° 323'54 3° 343'15 3° 338'37	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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 superior conj minimum elong	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 05:16 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 03 08:56 5440 Dec 30 08:56 5440 Dec 30 05:27 5441 Jan 14 07:04 5441 Jan 14 07:04 5441 Jan 14 07:04	28° m 31'43 0° a 6° a 07'37 15° a 02'55 0° m 8° m 50'55 0° x 6° x 54'54 14° x 12'29 11° x 33'00 7° x 38'52 5° x 21'50 5° x 14'30 0° x 54'08 30° R m 29° m 44'44 29° m 03'19 0° x 2° x 32'22 0° 514'08 0° 5 10° 5 40'37 24° 5 10'06 23° 5 42'47	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31 -0°56'44 0°55'49	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 behind sun begin	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 10:08 5441 Dec 23 16:37	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \omega 28° \omega 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° \neq 7 12° \neq 708'39 0° \omega 1° \omega 23'54 3° \omega 43'15 3° \omega 38'37 3° \omega 60'07	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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 superior conj minimum elong	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 03 04:30 5440 Dec 11 16:22 5440 Dec 30 08:56 5440 Dec 30 05:27 5441 Jan 14 07:04 5441 Jan 14 00:08 5441 Jan 16 18:04	28° m 31'43 0° a 6° a 07'37 15° a 02'55 0° m 8° m 50'55 0° x 6° x 54'54 14° x 12'29 11° x 33'00 7° x 38'52 5° x 21'50 5° x 14'30 0° x 54'08 30° R m 29° m 44'44 29° m 03'19 0° x 2° x 32'22 0° 514'08 0° 5 10° 5 40'37 24° 5 10'06 23° 5 42'47 28° 5 02'04	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31 -0°56'44 0°55'49	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 behind sun begin behind sun end	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 10:08 5441 Dec 23 16:37	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \omega 28° \omega 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° \neq '\delta 12' \neq '\delta 08'39 0° \omega 1° \omega 23'54 3° \omega 43'15 3° \omega 38'37 3° \omega 06'07 4° \omega 11'05	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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 superior conj minimum elong max. Earth dist.	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 05 04:30 5440 Dec 08 11:11 5440 Dec 11 16:22 5440 Dec 30 08:56 5440 Dec 30 08:56 5440 Dec 30 05:27 5441 Jan 14 07:04 5441 Jan 14 07:04 5441 Jan 16 18:04 5441 Jan 18 00:09	28° m 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° m. 8° m 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° R m. 29° m 44'44 29° m 03'19 0° ¾ 2° ¾ 32'22 0° ♂ 14'08 0° ♂ 10° ♂ 40'37 24° ♂ 10'06 23° ♂ 42'47 28° ♂ 02'04 0° ≈	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31 -0°56'44 0°55'49	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 behind sun begin behind sun end max. Earth dist.	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 09 21:37 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 10:08 5441 Dec 23 16:37 5441 Dec 25 01:40 5441 Dec 25 09:40	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \omega 28° \omega 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° \neq '\delta 120' \neq '\delta 08'39 0° \omega 1° \omega 23'54 3° \omega 43'15 3° \omega 38'37 3° \omega 06'07 4° \omega 11'05 12° \omega 23'33	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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 superior conj minimum elong max. Earth dist.	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 05 04:30 5440 Dec 08 11:11 5440 Dec 11 16:22 5440 Dec 30 08:56 5440 Dec 30 08:56 5440 Dec 30 05:27 5441 Jan 14 07:04 5441 Jan 14 07:04 5441 Jan 14 00:08 5441 Jan 18 00:09 5441 Jan 18 00:09 5441 Jan 30 12:53	28° m 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° R M 29° M 44'44 29° M 03'19 0° ¾ 2° ¾ 32'22 0° ♂ 14'08 0° ♂ 540'37 24° ♂ 10'06 23° ♂ 42'47 28° ♂ 02'04 0° ≈ 19° ≈ 32'42	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31 -0°56'44 0°55'49 1.45285 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 asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 10:08 5441 Dec 23 16:37 5441 Dec 25 02:49 5441 Dec 25 02:49 5441 Dec 25 09:40 5441 Dec 25 09:40 5441 Dec 30 12:26 5442 Jan 10 00:41	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° \omega 28° \omega 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° \neq '\delta 120' \neq 08'39 0° \omega 1° \omega 23'54 3° \omega 43'15 3° \omega 38'37 3° \omega 06'07 4° \omega 11'05 12° \omega 23'33 28° \omega 47'16	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16
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 superior conj minimum elong max. Earth dist. evening rise	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 03 08:56 5440 Dec 30 08:56 5441 Jan 14 07:04 5441 Jan 14 07:04 5441 Jan 18 00:08 5441 Jan 18 00:09 5441 Jan 30 12:53 5441 Feb 06 06:24	28° m 31'43 0° Ω 6° Ω 07'37 15° Ω 02'55 0° M 8° M 50'55 0° ¾ 6° ¾ 54'54 14° ¾ 12'29 11° ¾ 33'00 7° ¾ 38'52 5° ¾ 21'50 5° ¾ 14'30 0° ¾ 54'08 30° R M 29° M 44'44 29° M 03'19 0° ¾ 2° ¾ 32'22 0° ♂ 14'08 0° ♂ 10° ♂ 40'37 24° ♂ 10'06 23° ♂ 42'47 28° ♂ 02'04 0° ≈ 19° ≈ 32'42 0° ★	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31 -0°56'44 0°55'49 1.45285 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 asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 10:08 5441 Dec 23 16:37 5441 Dec 25 02:49 5441 Dec 25 02:49 5441 Dec 25 09:40 5441 Dec 25 09:40 5441 Dec 30 12:26 5442 Jan 10 00:41 5442 Jan 10 19:38	13° M 18'56 13° M 10'11 18° M 15'11 29° M 00'31 0° Ω 28° Ω 38'14 0° M 20° M 14'16 27° M 32'36 24° M 54'59 21° M 34'16 18° M 58'52 18° M 47'09 13° M 36'43 13° M 15'05 13° M 05'48 16° M 30'40 0° 12° 20' 8' 08'39 0° 3° 3° 3' 38'37 3° 30'6'07 4° 31'15 3° 338'37 3° 306'07 4° 31'105 12° 323'33 28° 347'16 0° ≈	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16 -0°10'01 0°09'49 1.44612 AU
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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	5440 Sep 18 04:13 5440 Sep 18 21:01 5440 Sep 21 20:02 5440 Sep 26 07:41 5440 Oct 04 12:03 5440 Oct 09 20:21 5440 Oct 31 08:03 5440 Oct 31 08:03 5440 Nov 13 13:04 5440 Nov 20 06:20 5440 Nov 24 05:28 5440 Nov 26 07:49 5440 Nov 26 07:49 5440 Nov 30 15:05 5440 Dec 01 22:54 5440 Dec 02 10:18 5440 Dec 03 08:56 5440 Dec 30 08:56 5441 Jan 14 07:04 5441 Jan 14 07:04 5441 Jan 18 00:09 5441 Jan 18 00:09 5441 Jan 30 12:53 5441 Feb 06 06:24 5441 Feb 11 16:27	28° m 31'43 0° \(\text{\te}\text{\t	1°42'31 1.34508 AU 26°57'38 0.65561 AU -1°29'24 1°28'19 18°11'31 -0°56'44 0°55'49 1.45285 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 asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	5441 Sep 02 11:45 5441 Sep 02 10:08 5441 Sep 04 18:56 5441 Sep 09 23:24 5441 Sep 10 11:17 5441 Sep 26 17:23 5441 Sep 27 14:58 5441 Oct 13 19:54 5441 Oct 27 10:08 5441 Nov 03 11:41 5441 Nov 07 05:25 5441 Nov 09 17:07 5441 Nov 16 09:00 5441 Nov 17 12:07 5441 Nov 18 20:39 5441 Nov 25 09:09 5441 Dec 05 00:46 5441 Dec 12 05:04 5441 Dec 22 20:08 5441 Dec 23 16:37 5441 Dec 25 02:49 5441 Dec 25 01:40 5441 Dec 25 09:40 5441 Dec 25 09:40 5441 Dec 30 12:26 5442 Jan 10 00:41 5442 Jan 10 19:38 5442 Jan 10 19:38	13° m 18'56 13° m 10'11 18° m 15'11 29° m 00'31 0° a 28° a 38'14 0° m 20° m 14'16 27° m 32'36 24° m 54'59 21° m 34'16 18° m 58'52 18° m 47'09 13° m 36'43 13° m 15'05 13° m 05'48 16° m 30'40 0° \$\frac{1}{2}\$ 12° \$\frac{1}{2}\$08'39 0° \$\frac{1}{3}\$ 1° \$\frac{1}{3}\$23'54 3° \$\frac{1}{3}\$06'07 4° \$\frac{1}{3}\$11'05 12° \$\frac{1}{3}\$23'33 28° \$\frac{1}{3}\$47'16 0° \$\infty\$	1°36'11 1.33225 AU 27°24'45 0.64036 AU -2°33'18 2°31'34 17°52'16 -0°10'01 0°09'49 1.44612 AU

retrograde	5442 Feb 14 20:31	12°) 47′30		max. Earth dist.	5442 Dec 13 03:52	26° ⊅ 25'22	1.43293 AU
evening set	5442 Feb 18 17:53	11° H 20'07		max. Lartii dist.	5442 Dec 15 09:02	0°る	1.432/3 AU
inferior conj	5442 Feb 24 02:30	5°) 13′21	2°57'53	evening rise	5442 Dec 20 13:25	。3 8° る 11'27	
minimum elong	5442 Feb 24 00:17	5° ∺ 20'56		evening rise	5443 Jan 04 01:32	0°≈	
min. Earth dist.	5442 Feb 24 19:00	4°)(17'04		evening max el	5443 Jan 20 17:55	21° ≈ 41'35	21°36'41
	5442 Feb 28 05:39	30°R≈		retrograde	5443 Jan 29 18:06	27° ≈ 02'14	
morning rise	5442 Mar 01 06:27	28° ≈ 58'56		asc. node	5443 Jan 31 08:26	26° ≈ 48'39	
direct	5442 Mar 06 21:59	26° ≈ 27'41		evening set	5443 Feb 03 01:42	25° ≈ 19'33	
	5442 Mar 14 17:05	0° ∀		inferior conj	5443 Feb 08 09:44	19° ≈ 02'33	2°25'57
morning max el	5442 Mar 18 06:07	3°) (14'44	24°28'54	minimum elong	5443 Feb 08 07:21	19° ≈ 10'51	2°25'16
desc. node	5442 Mar 21 15:51	6°) 56′21		min. Earth dist.	5443 Feb 08 13:44	18° ≈ 48'42	0.68033 AU
	5442 Apr 07 16:22	0 ° Υ		morning rise	5443 Feb 13 12:49	12° ≈ 50'36	
morning set	5442 Apr 23 03:58	25° Ƴ 11'15		direct	5443 Feb 18 13:56	10° ≈ 39'36	
	5442 Apr 25 21:05	0°8		morning max el	5443 Feb 28 15:30	16° ≈ 37'29	22°59'30
max. Earth dist.	5442 Apr 26 19:14	1° 8 40'03	1.37585 AU	desc. node	5443 Mar 08 12:53	25° ≈ 51'16	
					5443 Mar 11 15:54	0° ∀	
superior conj	5442 May 03 16:12	14° 8 32'50			5443 Mar 31 17:35	0° Y	
minimum elong	5442 May 03 20:38	14° 8 54'16	1°19'54	morning set	5443 Apr 04 05:15	5° Ƴ 42'58	
	5442 May 11 12:06	Π $^{\circ}0$		max. Earth dist.	5443 Apr 08 14:42	13° Y 09'08	1.39786 AU
evening rise	5442 May 12 08:08	1° Ⅱ 39'38					
asc. node	5442 May 12 10:41	1° Ⅱ 52'17		superior conj	5443 Apr 16 08:10	26° Ƴ 54'04	
evening max el	5442 May 29 01:00	28° ∏ 47'42	19°12'35	minimum elong	5443 Apr 16 13:15	27° Y 17'26	1°45'47
	5442 May 30 08:51	0			5443 Apr 18 00:26	0°B	
retrograde	5442 Jun 07 01:23	3° © 12'19		evening rise	5443 Apr 26 00:26	15° 8 09'57	
evening set	5442 Jun 09 00:50	3°500'30		asc. node	5443 Apr 29 07:43	21° 8 25'59	
	5442 Jun 15 16:42	30°RⅡ			5443 May 04 02:01	0°Щ	
inferior conj	5442 Jun 17 11:04	28° ∏ 50′24	0°03'00	evening max el	5443 May 12 04:09	11° ∏ 09'04	18°31'11
minimum elong	5442 Jun 17 11:12	28° Ⅲ 50'11	0°02'56	retrograde	5443 May 19 20:20	14° ∏ 56'46	
transit middle	5442 Jun 17 11:12	28° Ⅲ 50'11	0°02'56	evening set	5443 May 22 02:10	14° Ⅲ 38′21	
transit begin	5442 Jun 17 07:26	28° Ⅲ 56'30		inferior conj	5443 May 29 16:20	10° Ⅱ 08'49	1°37'45
transit end	5442 Jun 17 14:58	28° Ⅱ 43'52		minimum elong	5443 May 29 19:26	10° Ⅱ 02'43	1°36'45
desc. node	5442 Jun 17 15:07	28° Ⅱ 43'37	0.56150 ATT	min. Earth dist.	5443 Jun 02 01:45	7° Ⅱ 30'12	0.58005 AU
min. Earth dist.	5442 Jun 20 07:19	26° I I56'33	0.56178 AU	desc. node	5443 Jun 04 12:07	5° ∏ 49'41	
morning rise	5442 Jun 25 18:28	24° Ⅲ 02'12 23° Ⅲ 04'42		morning rise	5443 Jun 06 09:29	4° П 46'15 3° П 17'53	
direct	5442 Jun 30 18:09	23°Щ04′42 0°9		direct	5443 Jun 12 06:44		26°50'08
morning max el	5442 Jul 14 14:27 5442 Jul 14 22:37	0°9319'21	25°28'18	morning max el	5443 Jun 26 15:54 5443 Jul 11 09:21	10° Ⅱ 56'53 0° ©	20 30 08
morning max er	5442 Aug 04 11:53	0°Ω	23 20 10	morning set	5443 Jul 26 09:50	0 3 27° 9 50'56	
asc. node	5442 Aug 08 09:57	7° Ω 43'37		asc. node	5443 Jul 26 07:01	27°936'05	
morning set	5442 Aug 10 23:54	13° Ω 06'26		asc. node	5443 Jul 27 10:10	0°Ω	
morning set	3442 Aug 10 23.34	13 6600 20			3443 Jul 27 10.10	0 00	
superior conj	5442 Aug 17 22:04	28° Ω 11'01	1°24'39	superior conj	5443 Aug 02 09:50	13° Ω 05'03	1°08'10
minimum elong	5442 Aug 17 19:53	27° Ω 59'01		minimum elong	5443 Aug 02 07:33	12°Ω52'26	1°07'47
minimum crong	5442 Aug 18 17:55	0°m	1 2 1 2 2	max. Earth dist.	5443 Aug 02 11:53	13°Ω16'25	1.31952 AU
max. Earth dist.	5442 Aug 19 01:15	0° Mp 40'07	1.32376 AU	evening rise	5443 Aug 09 06:17	27° Ω 59'58	1.31702110
evening rise	5442 Aug 24 23:52	13° m) 22'17		8	5443 Aug 10 05:11	0° m/y	
<i>8</i> 21	5442 Sep 02 13:48	$0 \circ \overline{\mathbf{v}}$			5443 Aug 26 23:17	0∘ <u>v</u>	
desc. node	5442 Sep 13 14:25	17° ≏ 51'15		desc. node	5443 Aug 31 11:26	6° ≏ 16'15	
	5442 Sep 23 04:32	0°M		evening max el	5443 Sep 08 08:22	15° £ 10′21	26°45'21
evening max el	5442 Sep 26 04:56	3°M03'37	27°21'49	retrograde	5443 Sep 22 06:14	22° ჲ 19'29	
retrograde	5442 Oct 10 00:15	10° M ₁7'39		evening set	5443 Sep 29 03:10	20° ≙ 19'08	
evening set	5442 Oct 17 04:05	7°M52'45		min. Earth dist.	5443 Oct 02 22:20	17° £ 42'35	0.60182 AU
min. Earth dist.	5442 Oct 20 19:16	4°M59'45	0.62210 AU	inferior conj	5443 Oct 06 03:35	15° ഫ 05'52	-4°32'20
inferior conj	5442 Oct 23 17:41	2°M16'29	-3°36'20	minimum elong	5443 Oct 06 09:49	14° ≏ 53'12	4°30'59
minimum elong	5442 Oct 23 23:44	2°M02'25	3°34'25	morning rise	5443 Oct 13 18:30	10° ≏ 23'27	
	5442 Oct 26 07:02	30° ₹ Ω		direct	5443 Oct 16 02:10	10° ≏ 03'14	
morning rise	5442 Oct 30 21:12	27° ♀ 12'31		asc. node	5443 Oct 22 06:14	12° ≏ 34'09	
direct	5442 Nov 02 05:11	26° ≏ 48′29		morning max el	5443 Oct 23 13:42	13° ≏ 44'17	18°08'51
asc. node	5442 Nov 04 09:11	27° ჲ 09'53			5443 Nov 03 14:40	0° M	
	5442 Nov 08 18:10	0° M		morning set	5443 Nov 08 08:21	8°M46'25	
morning max el	5442 Nov 09 01:20	0° M 17′19	17°50'59				
morning set	5442 Nov 24 22:56	25°M05'26		superior conj	5443 Nov 17 22:56	26°M33'22	1°04'30
	5442 Nov 27 16:45	0°⊀		minimum elong	5443 Nov 18 02:50	26°M50'51	1°04'01
	5440 D 06 00 11	1.40 32	0022104		5443 Nov 19 21:18	0° ∡ ⁷	1 41 400 : **
superior conj	5442 Dec 06 00:14	14° ₹ 31'30		max. Earth dist.	5443 Nov 25 14:39	9° 🖈 52'58	1.41482 AU
minimum elong	5442 Dec 06 03:04	14° 🖈 43'33	0°31'40	desc. node	5443 Nov 27 10:43	12° × 757'12	
desc. node	5442 Dec 10 13:39	22° ⊀ 10′27		evening rise	5443 Nov 30 17:28	18° ∡ 19'43	

	5443 Dec 08 03:38	0°ප			5444 Nov 11 03:15	0° ∡ 7	
	5443 Dec 29 15:37	0° ≈		desc. node	5444 Nov 13 07:45	3° х 39′51	
evening max el	5444 Jan 03 10:33	5° ≈ 19'34	22°54'51		5444 Nov 30 13:58	0°ਰ	
retrograde	5444 Jan 13 13:28	11° ≈ 19'47		evening max el	5444 Dec 16 00:07	19° ප 00'31	24°14'36
evening set	5444 Jan 18 08:49	9° ≈ 21'19		retrograde	5444 Dec 27 05:26	25° る 35'37	
asc. node	5444 Jan 18 05:27	9° ≈ 28'15		evening set	5445 Jan 01 13:41	23° る 21'56	
inferior conj	5444 Jan 23 17:54	2° ≈ 57'28	1°45'56	asc. node	5445 Jan 04 02:29	20°る44'52	
minimum elong	5444 Jan 23 15:48	3°≈04'43	1°45'11	min. Earth dist.	5445 Jan 06 06:34	17° る 57'47	0.67874 AU
min. Earth dist.	5444 Jan 23 10:21	3° ≈ 23'33	0.68144 AU	inferior conj	5445 Jan 07 01:09	16° ප 55'15	0°58'45
	5444 Jan 25 22:51	30°₽₹		minimum elong	5445 Jan 06 23:48	16° ප 59'46	0°58'13
morning rise	5444 Jan 28 22:41	26° る 49'27		morning rise	5445 Jan 12 10:00	10° ප 52'51	
direct	5444 Feb 02 09:19	25° る 01'19		direct	5445 Jan 16 07:05	9° る 27'09	
morning max el	5444 Feb 11 05:17	0° ≈ 09'33	21°33'39	morning max el	5445 Jan 24 02:20	13° る 53'34	20°17'58
	5444 Feb 11 01:27	0° ≈			5445 Feb 05 15:14	0° ≈	
desc. node	5444 Feb 23 09:56	15° ≈ 22'51		desc. node	5445 Feb 09 06:59	5° ≈ 21'01	
	5444 Mar 04 10:37	0° ∀		morning set	5445 Feb 21 01:23	23°≈11′26	
morning set	5444 Mar 14 02:01	14° ¥ 54'30			5445 Feb 25 10:17	0° ∀	
max. Earth dist.	5444 Mar 20 15:08	25°) 30′47	1.41906 AU	max. Earth dist.	5445 Mar 02 22:54	8°) 46′05	1.43662 AU
	5444 Mar 23 07:42	$0^{\circ}\Upsilon$					
				superior conj	5445 Mar 08 23:35	18°) (34′47	-2°08'54
superior conj	5444 Mar 28 04:05	8° Ƴ 17'37	-2°04'14	minimum elong	5445 Mar 08 22:16	18°) €29′23	2°08'53
minimum elong	5444 Mar 28 07:38	8° Y 33'01	2°04'04		5445 Mar 15 18:45	0 ° $\mathbf{\gamma}$	
evening rise	5444 Apr 08 04:10	28° Ƴ 01'33		evening rise	5445 Mar 21 14:59	10° Y 05′23	
	5444 Apr 09 06:06	$_{0\circ}$ 8		asc. node	5445 Apr 02 01:46	29° Ƴ 23'41	
asc. node	5444 Apr 15 04:45	10° 8 38'41			5445 Apr 02 11:22	9° 8	
evening max el	5444 Apr 24 13:41	23° 8 59'38	18°09'50	evening max el	5445 Apr 08 02:16		18°07'53
retrograde	5444 May 01 09:39	27° 8 27'00		retrograde	5445 Apr 14 13:05	10° 8 33'07	
evening set	5444 May 03 22:22	26° 8 59'05		evening set	5445 Apr 17 08:14	9° 8 53'56	
inferior conj	5444 May 10 18:39	22° 8 08'50		inferior conj	5445 Apr 23 14:36	_	3°17'39
minimum elong	5444 May 10 21:55	22° 8 01'20	2°40'58	minimum elong	5445 Apr 23 16:35	_	3°17'23
min. Earth dist.	5444 May 14 02:33	19° 8 07'15	0.60168 AU	min. Earth dist.	5445 Apr 26 11:53	1° 8 43'58	0.62348 AU
morning rise	5444 May 17 18:59	16° 8 20'23			5445 Apr 28 07:52	30° ₹ Υ	
desc. node	5444 May 21 09:09	14° 8 42'48		morning rise	5445 Apr 29 23:22	28° Y 40′06	
direct	5444 May 24 07:43	14° 8 18'07		direct	5445 May 06 19:12	26° Y 09'37	
morning max el	5444 Jun 07 15:45	22° 8 12'08	27°40'16	desc. node	5445 May 08 06:11	26° Y 16′00	
	5444 Jun 14 12:24	0° Ⅱ			5445 May 16 03:53	0° 8	
	5444 Jul 03 10:34	0.2		morning max el	5445 May 20 21:34	4° 8 10'33	27°52'45
morning set	5444 Jul 09 16:21	12°523'06			5445 Jun 09 03:57	0°II	
asc. node	5444 Jul 12 04:02	17° © 37'52		morning set	5445 Jun 23 17:27	26° Ⅲ 36'46	
max. Earth dist.	5444 Jul 15 22:57	51'47ف ²⁵ °25	1.31948 AU		5445 Jun 25 09:05	0°9	
	5444 7 1 16 21 14	270654120	00.4710.6	asc. node	5445 Jun 29 01:04	7°544'36	1 22274 444
superior conj	5444 Jul 16 21:14	27°554'29	0°47'26	max. Earth dist.	5445 Jun 29 06:26	8° © 13'25	1.32374 AU
minimum elong	5444 Jul 16 19:20	27° © 43'59	0°47'03		5445 1 1 01 06 22	120522150	0022101
	5444 Jul 17 19:59	0° Ω		superior conj	5445 Jul 01 06:33	12°533'59	
evening rise	5444 Jul 23 16:18	12° Ω 45'30		minimum elong	5445 Jul 01 05:29	12°528'13	0°22'47
desc. node	5444 Aug 01 08:26	0°Mp		evening rise	5445 Jul 08 03:59	27° © 32'41	
	5444 Aug 17 08:27	23° Mp 33'05	25927!11		5445 Jul 09 07:48	0° №	
evening max el	5444 Aug 20 03:59 5444 Aug 24 10:47	26° Mp 26'37 0° <u>₽</u>	23 3/11	evening max el	5445 Jul 26 13:35 5445 Aug 01 17:15	0 mg/01′24	24906!26
rotrogrado	Č	ა = 3° ჲ 31'49		desc. node	•	-•	24 00 30
retrograde evening set	5444 Sep 03 02:42 5444 Sep 09 04:00	2° £ 31′49		retrograde	5445 Aug 04 05:27 5445 Aug 15 11:52	9° Mp 14'55 13° Mp 57'17	
evening set	5444 Sep 12 21:08	2 = 00 01 30°R m)		evening set	5445 Aug 20 04:28	13° My 08'32	
min. Earth dist.	5444 Sep 12 21:08 5444 Sep 13 15:56		0.58127 AU	min. Earth dist.	5445 Aug 26 03:53	-	0.56330 AU
inferior conj	5444 Sep 16 19:15	29 m/2840 27°m/16'07		inferior conj	5445 Aug 28 14:40	8° Mp 40'38	
minimum elong	5444 Sep 16 19:13	27° mp 09'47		minimum elong	5445 Aug 28 12:20		5°16'29
morning rise	5444 Sep 24 19:58	22° m 57'06	3 10 30	morning rise	5445 Sep 05 22:41	4° Mp 41'46	3 10 29
direct	5444 Sep 27 06:53	22° m) 38'17		direct	5445 Sep 08 16:06	4° My 22'24	
morning max el	5444 Oct 05 18:46	26° mp 41'23	18°47'22	morning max el	5445 Sep 18 13:24	8° Mp 59'15	19°47'41
asc. node	5444 Oct 08 03:17	20 m/41 23 29°m/13'24	10 7/22	asc. node	5445 Sep 25 00:20	16° Mp 52'40	17 7/71
asc. nouc	5444 Oct 08 03.17 5444 Oct 08 18:28	0° Ω 29 اللا13 24		asc. Houc	5445 Oct 02 13:35	16 11Ø3240 0° Ω	
morning set	5444 Oct 22 04:28	0 <u>₽</u> 22° ₽ 56'57		morning set	5445 Oct 06 07:52	0 ≗ 7° £ 27'38	
morning set	5444 Oct 25 18:50	0°M		morning set	5 77 5 OC 00 07.52	1 == 2138	
	5777 OCI 25 10.50	O IIO		superior conj	5445 Oct 14 03:51	23° £ 17'59	1°39'00
superior conj	5444 Oct 30 17:54	9°M33'51	1°26'31	minimum elong	5445 Oct 14 05:31	23° £ 26'13	1°38'55
minimum elong	5444 Oct 30 17:34 5444 Oct 30 21:02	9°M48'40	1°26'14	minimum clong	5445 Oct 17 14:04	0°M	1 50 55
max. Earth dist.	5444 Nov 06 20:40	22°M36'11	1.39397 AU	max. Earth dist.	5445 Oct 20 01:32	4°M42'03	1.37305 AU
evening rise	5444 Nov 10 19:38	29°M27'43	1.57577 AU	evening rise	5445 Oct 23 19:56	11°M36'02	1.57505 AU
		110-1 13			500 25 17.50	1100002	

daga mada	5445 Oct 21 04:45	24° M .14'27		aumorior coni	5446 San 20 00:20	7° £ 33'16	1942!17
desc. node	5445 Oct 31 04:45			superior conj	5446 Sep 28 00:29		
	5445 Nov 03 18:41	0° ∡		minimum elong	5446 Sep 28 00:38	7° £ 34'01	1°43'17
	5445 Nov 25 21:04	0° 궁		max. Earth dist.	5446 Oct 02 11:13	16° ≏ 34'20	1.35430 AU
evening max el	5445 Nov 28 12:40	2° る 44'07	25°29'08	evening rise	5446 Oct 06 14:51	24° ≏ 35'59	
retrograde	5445 Dec 10 16:59	9° る 44'29			5446 Oct 09 12:59	0° M	
evening set	5445 Dec 16 14:38	7° る 17'33		desc. node	5446 Oct 18 01:45	14°M36'16	
min. Earth dist.	5445 Dec 21 00:07	2° る 27'45	0.67248 AU		5446 Oct 28 07:59	0° ⊼	
asc. node	5445 Dec 21 23:32	1°る12'33		evening max el	5446 Nov 11 01:32	16° ∡ ¹26'49	26°30'57
inferior conj	5445 Dec 22 05:40	0° る 52'46	0°05'13	retrograde	5446 Nov 23 23:18	23° ∡ ¹40'43	
minimum elong	5445 Dec 22 05:32	0° る 53'13	0°05'10	evening set	5446 Nov 30 09:49	21° 尽 04'27	
transit middle	5445 Dec 22 05:32	0° る 53'13	0°05'10	min. Earth dist.	5446 Dec 04 12:39	16° ₹ '49'46	0.66272 AU
transit begin	5445 Dec 22 02:53	1° る 01'45	0 00 10	inferior conj	5446 Dec 06 05:33	14° × 46'48	
transit end		0°る44'40		3		14° 🖈 40'48	0°52'59
transit end	5445 Dec 22 08:11			minimum elong	5446 Dec 06 07:02		0-32-39
	5445 Dec 22 22:10	30°R ✓		asc. node	5446 Dec 08 20:35	11° ∡ ¹46'31	
morning rise	5445 Dec 27 20:47	24° ₹ 57'58		morning rise	5446 Dec 12 04:57	9° ∡ 02'10	
direct	5445 Dec 31 05:51	23° ≯ 52'15		direct	5446 Dec 15 04:00	8° ≯ 12'54	
morning max el	5446 Jan 07 07:13	27° ∡ ¹47'53	19°16'13	morning max el	5446 Dec 21 18:42	11° ∡ ⁴48'46	18°30'21
	5446 Jan 09 08:07	0°ರ			5447 Jan 03 21:03	8°0	
greatest brilliancy	5446 Jan 20 16:56	15° る 45'37	-0.7m	morning set	5447 Jan 11 00:23	11° る 20'04	
desc. node	5446 Jan 27 04:01	25°₹38'03		desc. node	5447 Jan 14 01:02	16° පි 08'48	
	5446 Jan 29 23:50	0° ≈			5447 Jan 22 19:35	0° ≈	
morning set	5446 Jan 31 01:20	1°≈38'42					
max. Earth dist.	5446 Feb 13 12:55	22°≈41'32	1.44852 AU	superior conj	5447 Jan 26 22:17	6° ≈ 27'16	1°21'50
max. Earth dist.	3440 Feb 13 12.33	22 🗪 41 32	1.44632 AU			5°≈51'22	
	5446E4 46 40 01	250 45155	1055105	minimum elong	5447 Jan 26 13:08		
superior conj	5446 Feb 16 18:21	27° ≈ 47'57		max. Earth dist.	5447 Jan 27 07:18	7°≈02'36	1.45344 AU
minimum elong	5446 Feb 16 10:47	27°≈17'54	1°54'35		5447 Feb 10 21:35	0° ∀	
	5446 Feb 18 03:31	0° ℋ		evening rise	5447 Feb 11 18:41	1° ∺ 23'33	
evening rise	5446 Mar 03 04:30	21° ∺ 12'42		greatest brilliancy	5447 Feb 21 02:23	16°) €08'06	-0.8m
	5446 Mar 08 11:47	0 ° Υ			5447 Mar 02 12:58	0° Y	
asc. node	5446 Mar 19 22:48	17° Y 31'32		evening max el	5447 Mar 06 01:04	4° Y 05'40	18°59'12
evening max el	5446 Mar 22 14:52	20° Ƴ 34'47	18°24'39	asc. node	5447 Mar 06 19:49	4° Y 51'28	
retrograde	5446 Mar 29 02:03	24° Ƴ 04'59		retrograde	5447 Mar 12 20:53	7° Y 55'50	
evening set	5446 Apr 01 03:35	23° Υ 13'19		evening set	5447 Mar 16 05:19	6° Y 50'47	
•	•	17° Y 45'11	3°31'23	inferior conj	5447 Mar 21 19:02	1°Υ05'54	3°28'15
inferior conj	5446 Apr 06 23:57	17° Y 4311		3			
minimum elong	5446 Apr 07 00:19		3°31'22	minimum elong	5447 Mar 21 18:02	1° Y 09'03	3°28'11
min. Earth dist.	5446 Apr 09 06:27	15° Y 07'12	0.64307 AU		5447 Mar 22 15:52	30° ₹	
morning rise	5446 Apr 12 20:14	11° Y 33'38		min. Earth dist.	5447 Mar 23 09:55	29° ∺ 03′25	0.65897 AU
direct	5446 Apr 19 15:00	8° Ƴ 46'53		morning rise	5447 Mar 27 06:22	24°) 51′25	
desc. node	5446 Apr 25 03:13	10° Ƴ 18'45		direct	5447 Apr 02 17:35	22°) €02'12	
morning max el	5446 May 03 06:42	16° Ƴ 44'18	27°28'44	desc. node	5447 Apr 12 00:15	26° 升 19′22	
	5446 May 14 06:22	8°		morning max el	5447 Apr 15 16:40	29°) 43′05	26°34'20
	5446 Jun 01 23:10	$\Pi^{\circ}0$		-	5447 Apr 15 23:19	$0^{\circ}\mathbf{Y}$	
morning set	5446 Jun 07 10:31	10° Ⅲ 23'13			5447 May 08 04:03	0°8	
max. Earth dist.	5446 Jun 12 06:16	20° Ⅱ 08'40	1.33254 AU	morning set	5447 May 21 16:14	23° 8 33'06	
max. Earth dist.	3440 Juli 12 00.10	20 1100 40	1.55254710	morning sec	5447 May 25 00:34	0°II	
	5446 T 15 11 40	26° Ⅱ 56'45	000.412.7	E 41 E 4	•		1 24600 ATT
superior conj	5446 Jun 15 11:49			max. Earth dist.	5447 May 25 19:39	1°Д34'06	1.34609 AU
minimum elong	5446 Jun 15 12:03	26° ∏ 57'58	0°04'25				
behind sun begin	5446 Jun 15 06:47	26° Ⅱ 29'59		superior conj	5447 May 30 10:50	10° Ⅱ 56'43	
behind sun end	5446 Jun 15 17:18	27° Ⅱ 25'58		minimum elong	5447 May 30 12:41	11° Ⅱ 06′16	0°33'33
asc. node	5446 Jun 15 22:06	27° Ⅱ 51'31		asc. node	5447 Jun 02 19:06	17° Ⅱ 54'46	
	5446 Jun 16 22:07	0°€		evening rise	5447 Jun 07 00:39	26° Ⅱ 46′13	
evening rise	5446 Jun 22 15:23	12° © 14'46			5447 Jun 08 14:15	0 \circ 60	
	5446 Jul 01 16:41	$0^{\circ}\Omega$		evening max el	5447 Jun 26 04:28	28° © 00'51	20°58'48
evening max el	5446 Jul 14 06:44	17° Ω 21'43	22°28'52	-	5447 Jun 28 10:02	$0^{\circ}\Omega$	
desc. node	5446 Jul 22 02:26	22° Ω 48'04		retrograde	5447 Jul 07 20:54	3° Ω 45'50	
retrograde	5446 Jul 27 08:25	23° Ω 51'41		desc. node	5447 Jul 08 23:28	3° Ω 42'55	
evening set	5446 Jul 30 12:44	23° Ω 29'27		evening set	5447 Jul 10 01:19	3° Ω 34'35	
•			0.55125 411	evening set			
min. Earth dist.	5446 Aug 07 13:55	19° £ 58'48	0.55125 AU	::	5447 Jul 18 17:03	30°R≌	2800152
inferior conj	5446 Aug 08 16:09	19° £ 21'36		inferior conj	5447 Jul 19 09:10	29° © 37'16	
minimum elong	5446 Aug 08 08:05	19° Ω 33'04	4°31'58	minimum elong	5447 Jul 19 01:10	29° © 48'34	
morning rise	5446 Aug 17 05:20	15° Ω 31'49		min. Earth dist.	5447 Jul 20 00:22	29° © 15'49	0.54791 AU
direct	5446 Aug 20 08:14	15° Ω 09'38		morning rise	5447 Jul 28 01:08	25° © 38'25	
morning max el	5446 Aug 31 19:46	20° Ω 31′01	21°09'19	direct	5447 Jul 31 17:16	25° © 09'28	
	5446 Sep 08 14:14	0° mp			5447 Aug 12 03:15	$0^{\circ}\Omega$	
asc. node	5446 Sep 11 21:22	5° Mp 18'16		morning max el	5447 Aug 13 15:15	1° Ω 19′28	22°47'37
morning set	5446 Sep 20 16:01	22° m) 11'35		asc. node	5447 Aug 29 18:23	24° Ω 18'47	
	5446 Sep 24 09:37	0° ت			5447 Sep 01 16:41	0° my	
	2 50p 21 07.51	- -			эфр от 10.41	~ ··x	

morning set	5447 Sep 05 02:51	7° Mp 02'40		morning set	5448 Aug 19 14:39 5448 Aug 23 08:28	21° Q 55'53 0° m	
superior conj	5447 Sep 12 04:25	22° m 09'21	1°40'36		2	∵. γ	
minimum elong	5447 Sep 12 03:20	22° m 03'32	1°40'33	superior conj	5448 Aug 26 13:05	6° m 58′20	1°32'00
max. Earth dist.	5447 Sep 15 05:28	28° m 34'42	1.33913 AU	minimum elong	5448 Aug 26 11:10	6° m 47'54	1°31'48
	5447 Sep 15 21:55	0∘ <u>⊽</u>		max. Earth dist.	5448 Aug 28 08:09	10° m 51'57	
evening rise	5447 Sep 20 00:07	8° ≏ 15'51		evening rise	5448 Sep 02 19:59	22° m 25'30	
C	5447 Oct 02 01:16	0°M		C	5448 Sep 06 15:41	0 \circ $\overline{\mathbf{v}}$	
desc. node	5447 Oct 04 22:45	4°M38'41		desc. node	5448 Sep 20 19:47	24° £ 13'25	
evening max el	5447 Oct 24 14:17	29°M58'39	27°12'37		5448 Sep 24 20:35	0°M	
C	5447 Oct 24 14:51	0° √		evening max el	5448 Oct 06 01:13	13°ML07'03	27°27'21
retrograde	5447 Nov 06 23:37	7° ∡ 16′30		retrograde	5448 Oct 19 17:36	20°M23'26	
evening set	5447 Nov 13 20:59	4° ∡ ³36'56		evening set	5448 Oct 26 21:16	17° M 49'37	
min. Earth dist.	5447 Nov 17 17:45	0° ∡ 757'19	0.64952 AU	min. Earth dist.	5448 Oct 30 13:24	14° M 41'56	0.63301 AU
	5447 Nov 18 14:44	30°RM		inferior conj	5448 Nov 02 05:59	12°ML01'43	-3°00'23
inferior conj	5447 Nov 19 22:32	28°M31'48	-1°56'21	minimum elong	5448 Nov 02 11:14	11° M .48'40	2°58'31
minimum elong	5447 Nov 20 01:55	28°M22'27	1°54'57	morning rise	5448 Nov 09 02:47	6°ML47'03	
asc. node	5447 Nov 25 17:38	23°M18'40		direct	5448 Nov 11 12:37	6° M ₊19'24	
morning rise	5447 Nov 26 08:00	23°M00'26		asc. node	5448 Nov 11 14:41	6°M₁9′26	
direct	5447 Nov 28 23:12	22°M23'48		morning max el	5448 Nov 18 03:18	9° M 44'31	17°49'30
morning max el	5447 Dec 05 10:21	25°M49'51	18°01'13		5448 Dec 01 15:55	0°⊀	
	5447 Dec 08 23:29	0° ∡ ¹		morning set	5448 Dec 04 11:14	4° ∡ ¹53'13	
morning set	5447 Dec 23 05:05	22° ∡ ¹29'49					
	5447 Dec 27 17:58	5°0		superior conj	5448 Dec 16 13:01	25° ₹ 29'44	0°08'51
desc. node	5447 Dec 31 22:02	6° る 48'27		minimum elong	5448 Dec 16 13:56	25° х ³33'32	0°08'44
				behind sun begin	5448 Dec 16 05:55	25° х 00′19	
superior conj	5448 Jan 06 06:51	15° る 25'48	-0°36'52	behind sun end	5448 Dec 16 21:57	26° х 06′41	
minimum elong	5448 Jan 06 02:21	15° る 07'52	0°36'13	desc. node	5448 Dec 17 19:03	27° ∡ ³33'35	
max. Earth dist.	5448 Jan 10 03:05	21° る 30'55	1.45089 AU		5448 Dec 19 06:50	ರ°0	
	5448 Jan 15 13:08	0° ≈		max. Earth dist.	5448 Dec 22 20:45	5°る47'00	1.44125 AU
evening rise	5448 Jan 22 13:04	10° ≈ 50'38		evening rise	5448 Dec 31 23:14	20° ට 04'13	
	5448 Feb 04 02:20	0°) €			5449 Jan 07 11:39	0° ≈	
greatest brilliancy	5448 Feb 05 10:19	1° ¥ 58'57	-0.7m		5449 Jan 29 03:34	0° ∀	
evening max el	5448 Feb 17 06:51	17°) 39′00	19°50'03	evening max el	5449 Jan 30 07:09	1°) 13′05	20°54'41
asc. node	5448 Feb 21 16:52	21°) €09'36		retrograde	5449 Feb 07 16:55	6° ∺ 11'08	
retrograde	5448 Feb 24 18:38	21° ¥ 59'25		asc. node	5449 Feb 07 13:56	6° ₩ 11'03	
evening set	5448 Feb 28 10:57	20°) 40′12		evening set	5449 Feb 11 18:29	4°) 37′08	
inferior conj	5448 Mar 04 20:45	14°) (40′34	3°12'05		5449 Feb 15 22:52	30° R ≈	
minimum elong	5448 Mar 04 18:51	14°) (46′57	3°11'46	inferior conj	5449 Feb 17 02:36	28° ≈ 25′21	2°45'25
min. Earth dist.	5448 Mar 05 20:56	13° ₩ 19'53	0.67056 AU	minimum elong	5449 Feb 17 00:15	28° ≈ 33'28	2°44'50
morning rise	5448 Mar 10 02:31	8°) 25′44		min. Earth dist.	5449 Feb 17 13:33	27° ≈ 47'37	0.67789 AU
direct	5448 Mar 16 01:53	5°) 45'41		morning rise	5449 Feb 22 05:50	22° ≈ 11'49	
morning max el	5448 Mar 28 01:56	12° ¥ 56′00	25°18'28	direct	5449 Feb 27 15:11	19° ≈ 48'57	
desc. node	5448 Mar 28 21:17	13°) 45′48		morning max el	5449 Mar 10 10:43	26° ≈ 15'58	23°51'03
	5448 Apr 10 20:36	$0^{\circ}\Upsilon$			5449 Mar 13 21:13	0°) €	
	5448 Apr 29 22:11	9° 8		desc. node	5449 Mar 15 18:18	2°) 13′40	
morning set	5448 May 03 06:09	5° 8 54'06			5449 Apr 04 10:26	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	5448 May 06 22:21	12° 8 39'30	1.36400 AU	morning set	5449 Apr 14 22:32	17° Ƴ 10'17	
				max. Earth dist.	5449 Apr 18 18:19	23° Y 50'06	1.38507 AU
superior conj	5448 May 13 00:46	24° 8 26'11	-1°03'53		5449 Apr 22 04:27	$0^{\circ}S$	
minimum elong	5448 May 13 04:21	24° 8 43'57	1°03'17				
	5448 May 15 19:26	Π $^{\circ}0$		superior conj	5449 Apr 26 01:58	7° 8 15'02	
asc. node	5448 May 19 16:08	7° Ⅱ 50'40		minimum elong	5449 Apr 26 06:51	7° 8 38'11	1°31'30
evening rise	5448 May 21 05:35	11° Ⅱ 00'36		evening rise	5449 May 05 03:26	24° 8 49'27	
	5448 May 31 10:28	0		asc. node	5449 May 06 13:11	27° 8 34'00	
evening max el	5448 Jun 07 14:34	9° 5 19'20	19°45'35		5449 May 07 19:25	Π $\circ 0$	
retrograde	5448 Jun 17 13:49	14° © 12'07		evening max el	5449 May 21 12:19	21° Ⅱ 19'22	18°52'29
evening set	5448 Jun 19 11:39	14° © 02'10		retrograde	5449 May 29 21:58	25° Ⅱ 26'52	
desc. node	5448 Jun 24 20:30	12° © 02'56		evening set	5449 May 31 23:38	25° Ⅱ 12'49	
inferior conj	5448 Jun 28 08:23	9° 9 59'49	-1°02'54	inferior conj	5449 Jun 09 01:18	20° Ⅲ 54'47	
minimum elong	5448 Jun 28 05:30	10° © 04'18	1°01'49	minimum elong	5449 Jun 09 03:05	20° Ⅲ 51'35	0°46'05
min. Earth dist.	5448 Jun 30 12:58	8° © 38'38	0.55417 AU	desc. node	5449 Jun 11 17:32	18° Ⅱ 59'43	
morning rise	5448 Jul 06 21:14	5° © 32'41		min. Earth dist.	5449 Jun 12 05:06	18° Ⅱ 39'41	0.56883 AU
direct	5448 Jul 11 07:54	4° © 49'05		morning rise	5449 Jun 17 03:11	15° Ⅱ 50'58	
morning max el	5448 Jul 25 05:13		24°31'50	direct	5449 Jun 22 12:08	14° Ⅱ 41′26	
	5448 Aug 08 03:14	$0^{\circ}\Omega$		morning max el	5449 Jul 06 20:03	22° Ⅱ 08′22	26°06'20
asc. node	5448 Aug 15 15:26	13° Ω 45'15			5449 Jul 13 18:33	0ಂತಾ	

	5449 Jul 31 19:26	0°N		morning max el	5450 Jun 18 16:01	3° П 00'33	27015145
asc. node	5449 Aug 02 12:28	3° Ω 29'48		morning max ci	5450 Jul 08 06:35	0.22 0.22	27 13 43
morning set	5449 Aug 04 01:43	6° Ω 44'58		morning set	5450 Jul 19 10:24	21° © 24'53	
morning set	544) Mug 04 01.45	0 00-1-30		asc. node	5450 Jul 20 09:30	23°\$26'49	
superior conj	5449 Aug 11 00:15	21°Ω52'18	1°18'13	use. Hode	5450 Jul 23 10:27	0°Ω	
minimum elong	5449 Aug 10 21:59	21°Ω39'44	1°17'53	max. Earth dist.	5450 Jul 26 03:43	5°Ω59'01	1.31897 AU
max. Earth dist.	5449 Aug 11 16:40	23°Ω22'42	1.32143 AU	man. Darm dige.	2 100 001 20 03.13	0 000001	1.510,7110
	5449 Aug 14 17:20	0° m)		superior conj	5450 Jul 26 12:05	6° Ω 45'15	0°59'53
evening rise	5449 Aug 17 23:16	6° m 54'55		minimum elong	5450 Jul 26 09:54	6° Ω 33'13	0°59'29
Č	5449 Aug 30 03:46	0∘ ⊽		evening rise	5450 Aug 02 07:27	21° Ω 36'41	
desc. node	5449 Sep 07 16:49	13° ഫ 08'15		Č	5450 Aug 06 09:09	0° m)	
evening max el	5449 Sep 18 07:56	25° ≏ 38'46	27°10'17		5450 Aug 24 16:16	0∘ ⊽	
C	5449 Sep 23 18:40	0° M		desc. node	5450 Aug 25 13:50	1° ≏ 07'09	
retrograde	5449 Oct 02 04:38	2°M51'23		evening max el	5450 Aug 31 08:07	7° £ 24'08	26°19'50
evening set	5449 Oct 09 06:54	0°M35'05		retrograde	5450 Sep 14 07:05	14° £ 32'07	
_	5449 Oct 10 04:07	30° Ŗ≏		evening set	5450 Sep 20 21:05	12° ≏ 45'41	
min. Earth dist.	5449 Oct 12 22:28	27° ≙ 51'05	0.61366 AU	min. Earth dist.	5450 Sep 24 21:28	10° ≏ 10′50	0.59294 AU
inferior conj	5449 Oct 16 00:42	25° ≏ 08'15	-4°01'25	inferior conj	5450 Sep 28 03:13	7° - 42′05	-4°51'41
minimum elong	5449 Oct 16 07:05	24° ≙ 54'14	3°59'40	minimum elong	5450 Sep 28 08:44	7° ≏ 31'28	4°50'46
morning rise	5449 Oct 23 09:14	20° ≙ 13′28		morning rise	5450 Oct 05 22:35	3° ഫ 09'31	
direct	5449 Oct 25 16:34	19° ≙ 51'29		direct	5450 Oct 08 06:59	2° ≙ 50'18	
asc. node	5449 Oct 29 11:43	20° £ 53'36		morning max el	5450 Oct 16 04:00	6° £ 39'51	18°22'34
morning max el	5449 Nov 01 18:21	23° £ 24′23	17°56'10	asc. node	5450 Oct 16 08:46	6° ჲ 51′26	
	5449 Nov 06 23:58	0° M .			5450 Oct 31 00:31	0° M	
morning set	5449 Nov 17 12:21	18° M ₊10'34		morning set	5450 Nov 01 02:47	2°M05'20	
	5449 Nov 24 00:35	0° ∡ ¹					
				superior conj	5450 Nov 10 05:37	19°M19'30	1°15'05
superior conj	5449 Nov 27 21:41	6° ₹ 151'05	0°47'05	minimum elong	5450 Nov 10 09:20	19°M36'36	1°14'40
minimum elong	5449 Nov 28 01:17	7° ∡ ¹06'43	0°46'37		5450 Nov 16 04:38	0°⊀	
desc. node	5449 Dec 04 16:06	18° ∡ ¹20'52		max. Earth dist.	5450 Nov 17 18:00	2° ∡ ¹41'41	1.40612 AU
max. Earth dist.	5449 Dec 05 09:54	19° ∡ ³34′23	1.42567 AU	desc. node	5450 Nov 21 13:07	9° ₰ 06′20	
evening rise	5449 Dec 11 17:01	29° ∡ ¹43'35		evening rise	5450 Nov 22 06:06	10° ∡ 16'34	
	5449 Dec 11 21:10	0°ರ			5450 Dec 04 20:42	ರ°0	
	5450 Jan 01 02:30	0° ≈		evening max el	5450 Dec 26 17:17	28° る 28'37	23°29'05
evening max el	5450 Jan 13 02:11	14° ≈ 49'12	22°09'23		5450 Dec 28 07:28	0° ≈	
retrograde	5450 Jan 22 13:50	20° ≈ 27'38		retrograde	5451 Jan 06 07:52	4° ≈ 44'42	
asc. node	5450 Jan 25 10:57	19° ≈ 43'55		evening set	5451 Jan 11 08:29	2° ≈ 39'56	
evening set	5450 Jan 27 02:11	18° ≈ 38'19		asc. node	5451 Jan 12 08:00	1° ≈ 45'42	
inferior conj	5450 Feb 01 10:27	12° ≈ 17'44	2°09'56		5451 Jan 13 22:02	30°₹₹	
minimum elong	5450 Feb 01 08:08	12° ≈ 25'49	2°09'12	inferior conj	5451 Jan 16 18:26	26° る 14'22	1°26'45
min. Earth dist.	5450 Feb 01 09:27	12° ≈ 21'14	0.68119 AU	minimum elong	5451 Jan 16 16:36	26° පි 20'40	1°26'04
morning rise	5450 Feb 06 13:56	6° ≈ 07'03		min. Earth dist.	5451 Jan 16 06:14	26° る 56'09	0.68072 AU
direct	5450 Feb 11 08:44	4°≈05'42		morning rise	5451 Jan 22 00:39	20° る 08'18	
morning max el	5450 Feb 20 21:35	9° ≈ 42'41	22°22'06	direct	5451 Jan 26 05:24	18° る 29'42	
desc. node	5450 Mar 02 15:21	21° ≈ 25'55		morning max el	5451 Feb 03 14:02	23° る 19'04	20°59'51
	5450 Mar 08 19:02	0° ∀			5451 Feb 09 08:42	0° ≈	
morning set	5450 Mar 26 11:47	27° ₩ 08'07		desc. node	5451 Feb 17 12:23	11° ≈ 09'53	
	5450 Mar 28 05:45	$0^{\circ}\mathbf{\Upsilon}$			5451 Mar 02 03:20	0° ∀	
max. Earth dist.	5450 Mar 31 14:49	5° Ƴ 38'15	1.40706 AU	morning set	5451 Mar 05 21:28	5°) 49′50	
		••		max. Earth dist.	5451 Mar 13 17:52	18° ∺ 21'51	1.42713 AU
superior conj	5450 Apr 08 10:00	19° Y 13′10				••	
minimum elong	5450 Apr 08 14:48	19° Ƴ 34'40	1°54'47	superior conj	5451 Mar 20 19:55	0° Y 09'08	
	5450 Apr 14 07:26	0° 8		minimum elong	5451 Mar 20 21:48	0° Υ 17'10	2°08'09
evening rise	5450 Apr 18 14:54	8° 8 04'33			5451 Mar 20 17:45	0° Υ	
asc. node	5450 Apr 23 10:14	16° 8 59'48		evening rise	5451 Apr 01 11:53	20° Y 36′12	
	5450 May 01 10:16	0°II	10010145		5451 Apr 06 18:32	0° 8	
evening max el	5450 May 04 18:40	3° Ⅱ 54'38	18°19'45	asc. node	5451 Apr 10 07:15	6° 8 01'26	10000144
retrograde	5450 May 12 00:53	7° II 31'39		evening max el	5451 Apr 18 05:54	16° 8 55'03	18°06'44
evening set	5450 May 14 09:37	7° Ⅱ 09'35	2000127	retrograde	5451 Apr 24 20:32	20° 8 17'59	
inferior conj	5450 May 21 15:48	2° Ⅱ 31'37		evening set	5451 Apr 27 12:09	19° 8 45'22	2000102
minimum elong	5450 May 21 19:15		2°07'36	inferior conj	5451 May 04 02:01	14° 8 46'45	3°00'02
min E d V	5450 May 24 16:12	30°R 8	0.50001 411	minimum elong	5451 May 04 04:50	14° 8 39'54	
min. Earth dist.	5450 May 25 02:14	29° 8 39'53	0.58901 AU	min. Earth dist.	5451 May 07 06:17	11° 8 42'56	0.61115 AU
morning rise	5450 May 29 01:49	26° 8 56'32		morning rise	5451 May 10 19:28	8° 8 50'53	
desc. node	5450 May 29 14:33 5450 Jun 04 06:40	26° ႘ 39'48		desc. node	5451 May 16 11:35	6° 8 38'25	
direct	5450 Jun 04 06:40 5450 Jun 15 07:22	25° ႘ 13'16 0° Ⅱ		direct morning max el	5451 May 17 12:33 5451 May 31 18:17	6° 8 35'14 14° 8 32'49	27050112
	5450 Jun 15 U/.22	υ д		morning max ei	0401 Wiay 31 16.1/	14 03249	21 30 13

	5451 Jun 13 05:35	0° I I			5452 May 16 02:10	0° ႘	
	5451 Jun 30 17:34	0° ©			5452 Jun 05 20:48	0°∏	
morning set	5451 Jul 03 14:51	5° © 49'42		morning set	5452 Jun 16 12:50	19° ∏ 52'18	
asc. node	5451 Jul 07 06:33	13° © 31'13		morning sec	5452 Jun 21 10:37	0°95	
max. Earth dist.	5451 Jul 09 13:38	18° © 29'30	1.32073 AU	max. Earth dist.	5452 Jun 21 18:28	0°541'37	1.32692 AU
				asc. node	5452 Jun 23 03:33	3° © 38'11	
superior conj	5451 Jul 10 22:49	21° © 31'14	0°37'30				
minimum elong	5451 Jul 10 21:13	21° 5 22'27	0°37'10	superior conj	5452 Jun 24 06:38	6° © 03'58	0°11'43
	5451 Jul 14 19:26	$0^{\circ}\Omega$		minimum elong	5452 Jun 24 06:04	6° © 00'55	0°11'34
evening rise	5451 Jul 17 18:24	6° Ω 23'52		behind sun begin	5452 Jun 24 02:24	5° 5 641'08	
	5451 Jul 30 02:18	0° ™		behind sun end	5452 Jun 24 09:44	6° 5 20'43	
desc. node	5451 Aug 12 10:50	17° m y 47'51		evening rise	5452 Jul 01 06:11	21° © 09'34	
evening max el	5451 Aug 13 00:52	18° m 22'02	25°00'43		5452 Jul 05 12:53	0 $^{\circ}\Omega$	
retrograde	5451 Aug 26 22:49	25° m 23'46		evening max el	5452 Jul 24 13:12	28° Ω 46'14	23°24'59
evening set	5451 Sep 01 11:27	24° m) 14'28	0.55010.111		5452 Jul 25 21:01	0° m	
min. Earth dist.	5451 Sep 06 12:21	21° Tp 30'45	0.57312 AU	desc. node	5452 Jul 29 07:51	2°M 39'27	
inferior conj	5451 Sep 09 10:27	19° m/34'23		retrograde	5452 Aug 07 02:08	5° Mp 33'21	
minimum elong	5451 Sep 09 11:50	19° mp 32'04	5*18*24	evening set min. Earth dist.	5452 Aug 11 03:09	4° Mp 57'34	0.55725 AU
morning rise direct	5451 Sep 17 14:30 5451 Sep 20 03:54	15° mp 24'18 15° mp 05'23		inferior conj	5452 Aug 17 22:40 5452 Aug 19 21:32	0° My 39'00	
morning max el	5451 Sep 29 04:56	19° m) 21'38	19°10'14	minimum elong	5452 Aug 19 16:22	0°10/46'39	
asc. node	5451 Oct 03 05:48	23° m 58'26	17 10 14	minimum clong	5452 Aug 21 00:05	30°RΩ	3 04 20
use. Houe	5451 Oct 07 06:23	ე∘ <u>ი</u>		morning rise	5452 Aug 28 07:58	26° Ω 46'09	
morning set	5451 Oct 16 02:26	16° ≏ 26'18		direct	5452 Aug 31 05:20	26° Ω 25'47	
	5451 Oct 22 22:32	0°M			5452 Sep 09 05:22	0° m)	
				morning max el	5452 Sep 10 18:21	1° m) 19'57	20°20'00
superior conj	5451 Oct 24 07:34	2°M40'40	1°32'54	asc. node	5452 Sep 19 02:50	11° m 58'50	
minimum elong	5451 Oct 24 10:07	2°M52'58	1°32'42		5452 Sep 28 19:39	0∘ ত	
max. Earth dist.	5451 Oct 30 23:17	15° M 09'07	1.38500 AU	morning set	5452 Sep 29 08:10	1° ≏ 03'50	
evening rise	5451 Nov 03 18:05	21°M51'51					
desc. node	5451 Nov 08 10:08	29°M46'34		superior conj	5452 Oct 06 22:34	16° ≏ 39'41	1°41'44
	5451 Nov 08 13:23	0° ∡ ¹		minimum elong	5452 Oct 06 23:34	16° ≏ 44'44	1°41'42
	5451 Nov 28 19:24	0°ಕ		max. Earth dist.	5452 Oct 12 05:58	27° ≏ 08'05	1.36473 AU
evening max el	5451 Dec 09 06:26	12° ろ 12'04	24°47'23		5452 Oct 13 18:07	0°M	
retrograde	5451 Dec 20 21:53	18° ろ 58'26		evening rise	5452 Oct 16 02:48	4°M23'21	
evening set	5451 Dec 26 11:52	16° る 38'57		desc. node	5452 Oct 25 07:08	20°M16'30	
asc. node	5451 Dec 30 05:01	12° පි 36'05	0.68660.433		5452 Oct 31 11:48	0° ⊀ ⁷	0.50.5.511.5
min. Earth dist.	5451 Dec 31 01:35	11°る29'21 10°る12'45	0.67660 AU	evening max el	5452 Nov 20 19:02	25° ₹ 56'01	25°57'17
inferior conj minimum elong	5452 Jan 01 00:44 5451 Dec 31 23:51	10°る12'45 10°る15'40	0°36'46 0°36'25	retrograde	5452 Nov 25 13:37 5452 Dec 03 07:10	0°る 3°る03'00	
morning rise	5451 Dec 31 25.51 5452 Jan 06 12:00	10 31340 4° 3 13'17	0 30 23	evening set	5452 Dec 09 10:36	3 30300 0° る 31'16	
direct	5452 Jan 10 03:52	2° る 56'17		evening set	5452 Dec 10 00:53	30°R.∡ ⁷	
morning max el	5452 Jan 17 14:23	7°る07'42	19°49'46	min. Earth dist.	5452 Dec 13 17:09	25° × 756'38	0.66885 AU
greatest brilliancy	5452 Jan 30 19:04	24° る 25'23	-0.6m	inferior conj	5452 Dec 15 03:32	24° ₹ 09'04	
8	5452 Feb 03 12:57	0° ≈		minimum elong	5452 Dec 15 04:02	24° ₹ 07'29	0°18'56
desc. node	5452 Feb 04 09:24	1° ≈ 17'00		asc. node	5452 Dec 16 02:03	22° ₹ ′59′12	
morning set	5452 Feb 12 17:47	14° ≈ 01'35		morning rise	5452 Dec 20 21:58	18° ∡ 18'32	
	5452 Feb 22 23:16	0° ∀		direct	5452 Dec 24 02:34	17° ∡ 120′16	
max. Earth dist.	5452 Feb 24 04:57	1°) 57′50	1.44258 AU	morning max el	5452 Dec 30 22:24	21° ₹ 05'48	18°54'42
					5453 Jan 07 01:34	0° ප	
superior conj	5452 Feb 29 04:25	9° ¥ 57'22		desc. node	5453 Jan 21 06:26	21° る 40'29	
minimum elong	5452 Feb 29 00:18	9°) (40′44	2°05'21	morning set	5453 Jan 22 01:42	22° る 55'47	
	5452 Mar 12 05:57	0° Υ			5453 Jan 26 14:14	0° ≈	
evening rise	5452 Mar 13 14:02	2°Υ16'25		max. Earth dist.	5453 Feb 05 21:38	16° ≈ 08′06	1.45154 AU
asc. node	5452 Mar 27 04:16	24° Ƴ 31'38			5452 F 1 07 14 52	100 - 50100	1042100
avanina may al	5452 Mar 31 13:57	0° 8	10012145	superior conj	5453 Feb 07 14:53	18°≈50'20	
evening max el retrograde	5452 Mar 31 18:49 5452 Apr 07 04:32	0°812'18 3°836'07	18°12'45	minimum elong	5453 Feb 07 05:45 5453 Feb 14 15:57	18°≈14'23 0°) €	1 42 20
evening set	5452 Apr 10 02:29	2° 8 51'33		evening rise	5453 Feb 14 15:57 5453 Feb 22 17:41	12° H 59'46	
J. Ching Set	5452 Apr 10 02:29	2 Ο 31 33		0,0111115 1150	5453 Mar 05 06:37	12 χ3940 0° Υ	
inferior conj	5452 Apr 16 04:07	27° Υ 33'28	3°25'49	asc. node	5453 Mar 14 01:18	12° Υ 20'49	
minimum elong	5452 Apr 16 05:24	27° Υ 29'56	3°25'42	evening max el	5453 Mar 15 06:37	13° Y 39'41	18°37'12
min. Earth dist.	5452 Apr 18 19:15	24° Υ 41'01	0.63224 AU	retrograde	5453 Mar 21 20:35	17° Υ 17'19	
morning rise	5452 Apr 22 07:10	21° Y 25'42		evening set	5453 Mar 25 00:56	16° Y 20′02	
direct	5452 Apr 29 03:27	18° Ƴ 46'57		inferior conj	5453 Mar 30 18:04	10° Ƴ 44'16	3°31'51
desc. node	5452 May 02 08:37	19° Y 18'10		minimum elong	5453 Mar 30 17:48	10° Ƴ 45′02	3°31'51
morning max el	5452 May 13 01:45	26° Y 46'50	27°46'48	min. Earth dist.	5453 Apr 01 17:47	8° Y 20'21	0.65029 AU

	5452 A 05 10:05	4° Υ 30'51			5454 Mar 20 00:52	17° ¥ 56'30	
morning rise	5453 Apr 05 10:05	4 γ 30 31 1° γ 41'44		morning rise			
direct	5453 Apr 12 02:08	-		direct	5454 Mar 26 07:21	15°) (09'48	
desc. node	5453 Apr 19 05:39	4°Υ15'36	25000155	desc. node	5454 Apr 06 02:42	20°) € 56'02	2 (00 4102
morning max el	5453 Apr 25 11:49	9° Ƴ 34'03	27°08'55	morning max el	5454 Apr 07 21:42	22°) 40′23	26°04'03
	5453 May 11 12:09	0°8			5454 Apr 14 08:38	0°Υ	
	5453 May 29 06:44	$\Pi^{\circ}0$			5454 May 04 19:15	$_{0\circ}$ 8	
morning set	5453 May 31 01:34	3° Ⅱ 24'56		morning set	5454 May 14 01:11	16° 8 15'48	
max. Earth dist.	5453 Jun 04 14:25	12° Ⅱ 25'39	1.33773 AU	max. Earth dist.	5454 May 17 22:52	23° 8 39'22	1.35318 AU
					5454 May 21 04:17	$\Pi^{\circ}0$	
superior conj	5453 Jun 08 09:32	20° Ⅲ 17'55	-0°16'45				
minimum elong	5453 Jun 08 10:25	20° Ⅲ 22'34	0°16'36	superior conj	5454 May 23 05:02	4° Ⅱ 05'35	-0°46'40
asc. node	5453 Jun 10 00:34	23° Ⅱ 44'10		minimum elong	5454 May 23 07:38	4° Ⅱ 18'45	0°46'12
	5453 Jun 12 23:12	0°€		asc. node	5454 May 27 21:36	13° Ⅱ 44'40	
evening rise	5453 Jun 15 16:58	5° © 48'11		evening rise	5454 May 31 00:39	20° Ⅱ 12'44	
evening rise	5453 Jun 28 19:32	0°Ω		evening rise	5454 Jun 04 22:12	0°9	
evening max el	5453 Jul 06 05:07	9° Ω 10'05	21048152	evening max el	5454 Jun 18 07:55	20°904'20	20°25'18
desc. node	5453 Jul 16 04:51	15° Ω 08'03	21 40 32	retrograde	5454 Jun 29 07:24	25°S27'07	20 23 10
		15°Ω23'38		•		25° © 17'23	
retrograde	5453 Jul 18 18:36			evening set	5454 Jul 01 06:52		
evening set	5453 Jul 21 10:31	15° Ω 07'40		desc. node	5454 Jul 03 01:54	24°952'44	
inferior conj	5453 Jul 30 17:46	11° Ω 05'31		inferior conj	5454 Jul 10 11:37	21° © 19'57	
minimum elong	5453 Jul 30 08:51	11° Ω 18′00		minimum elong	5454 Jul 10 05:29	21° © 28'52	2°09'38
min. Earth dist.	5453 Jul 30 08:33	11° Ω 18'24	0.54862 AU	min. Earth dist.	5454 Jul 11 20:08	20° © 32'37	0.54939 AU
morning rise	5453 Aug 08 08:37	7° Ω 14'38		morning rise	5454 Jul 19 03:05	17° © 10'29	
direct	5453 Aug 11 16:19	6° Ω 50′28		direct	5454 Jul 23 02:18	16° © 36'29	
morning max el	5453 Aug 23 19:47	12° Ω 32′20	21°49'42	morning max el	5454 Aug 05 12:12	23° 5 07'09	23°32'08
asc. node	5453 Sep 05 23:52	0° Mp 40'11			5454 Aug 11 15:35	$0^{\circ}\Omega$	
	5453 Sep 05 14:50	0°m		asc. node	5454 Aug 23 20:55	19° Ω 52'13	
morning set	5453 Sep 13 17:41	15° m 51'20			5454 Aug 28 20:53	0° m	
	5453 Sep 20 10:19	0∘ ʊ		morning set	5454 Aug 29 05:06	0° mp 43'20	
	3 (33 5 с р 20 10.1)	٠ –		morning sec	5 15 1 1 1 ag 25 05.00	0 10 13 20	
superior conj	5453 Sep 20 22:42	1° £ 05'00	1°42'56	superior conj	5454 Sep 05 04:56	15° m 47'15	1°37'38
minimum elong	5453 Sep 20 22:42 5453 Sep 20 22:17		1°42'55	minimum elong	5454 Sep 05 03:27		1°37'38 1°37'32
_		1° ♀ 02'47		_		15° Mp 39'12	
max. Earth dist.	5453 Sep 24 18:50	9° ₾ 00'30	1.34731 AU	max. Earth dist.	5454 Sep 07 16:31	21° m/05'48	1.33386 AU
evening rise	5453 Sep 29 04:18	17° £ 41'15			5454 Sep 11 23:38	0∘ ⊽	
	5453 Oct 05 21:19	0°M		evening rise	5454 Sep 12 18:30	1° ≏ 34'46	
desc. node	5453 Oct 12 04:08	10°M30'44			5454 Sep 28 19:22	0°M₊	
	5453 Oct 25 18:35	0°⊀		desc. node	5454 Sep 29 01:10	0°M22'22	
evening max el	5453 Nov 03 07:42	9° ∡ ³34'25	26°51'27	evening max el	5454 Oct 16 19:57	22°M57'59	27°22'38
retrograde	5453 Nov 16 11:07	16° ∡ ¹51'42			5454 Oct 28 00:09	0° ∡ ¹	
evening set	5453 Nov 23 02:42	14° ∡ 12'45		retrograde	5454 Oct 30 09:11	0° ҂ 16′27	
min. Earth dist.	5453 Nov 27 02:44	10° ∡ 13'21	0.65754 AU		5454 Nov 01 16:19	30°₽ M J	
inferior conj	5453 Nov 29 00:46	7° √ 59'39	-1°19'55	evening set	5454 Nov 06 09:43	27°MJ38'07	
minimum elong	5453 Nov 29 03:02	7° ₹ 53'02		min. Earth dist.	5454 Nov 10 04:12	24°M12'32	0.64278 AU
asc. node	5453 Dec 02 23:07	3° ∡ 52'12		inferior conj	5454 Nov 12 14:05	21°M39'26	
morning rise	5453 Dec 05 04:18	2°×20'31		minimum elong	5454 Nov 12 18:18	21°M28'17	
direct	5453 Dec 07 23:38	1° × ⁷ 37'16		morning rise	5454 Nov 19 04:15	16°MJ14'42	2 2100
morning max el	5453 Dec 14 12:05		18°15'51	asc. node	5454 Nov 19 20:10	16°M00'03	
morning max er		ップ・0/33 0°る	16 13 31	direct			
	5453 Dec 31 13:15				5454 Nov 21 16:44	15°M42'26	17954102
morning set	5454 Jan 02 13:23	3°る14'58		morning max el	5454 Nov 28 04:42	19°M07'29	17°54'03
desc. node	5454 Jan 08 03:26	12° る 15'20			5454 Dec 06 06:10	0° ∡	
		_		morning set	5454 Dec 15 05:49	14° ∡ ′59′08	
superior conj	5454 Jan 17 18:15	27° 云 30'59			5454 Dec 24 05:02	0°₹	
minimum elong	5454 Jan 17 10:34	27° る 00'48	1°02'39	desc. node	5454 Dec 26 00:27	2° る 57'55	
	5454 Jan 19 08:12	0° ≈					
max. Earth dist.	5454 Jan 19 16:35	0° ≈ 32'55	1.45322 AU	superior conj	5454 Dec 28 10:46	6° ප 54'40	-0°16'59
evening rise	5454 Feb 02 22:33	22° ≈ 49'06		minimum elong	5454 Dec 28 08:47	6° ප 46'40	0°16'41
	5454 Feb 07 12:53	0° ℋ		max. Earth dist.	5455 Jan 02 11:28	14° ප 57'11	1.44758 AU
greatest brilliancy	5454 Feb 14 09:56	10°) 38′38	-0.7m		5455 Jan 12 02:51	0° ≈	
evening max el	5454 Feb 26 15:03	27°) 11′31	19°18'59	evening rise	5455 Jan 13 11:41	2° ≈ 06'18	
asc. node	5454 Feb 28 22:21	29°) 16'09		<i>5</i>	5455 Feb 01 04:17	0° ∀	
	5454 Mar 01 23:24	0°Υ		evening max el	5455 Feb 09 18:39	10°) 45′55	20°16'04
retrograde	5454 Mar 05 17:03	1° Υ 13'54		asc. node	5455 Feb 15 19:25	15° X 03'48	20 100-1
•		0° Υ 03'05			5455 Feb 17 15:14	15° X 21'33	
evening set	5454 Mar 09 04:36			retrograde		13° ★ 21′33	
: <i>c</i> :	5454 Mar 09 06:24	30° ₹ ₩	2022140	evening set	5455 Feb 21 11:16		2901157
inferior conj	5454 Mar 14 16:20	24° H 11'40		inferior conj	5455 Feb 26 20:08	7° ₩ 51'25	3°01'57
minimum elong	5454 Mar 14 14:54			minimum elong	5455 Feb 26 17:58	7°) € 58'44	3°01'30
min. Earth dist.	5454 Mar 16 00:51	22° ∺ 26'18	0.66438 AU	min. Earth dist.	5455 Feb 27 14:36	6°) 48'45	0.67424 AU

	545534 04 00 07	10)/26/52			5456E 1 01 12 01	200 - 25140	
morning rise	5455 Mar 04 00:27	1° ¥ 36'53		retrograde	5456 Feb 01 13:01	29°≈35'49	
	5455 Mar 06 05:23	30° R ≈		asc. node	5456 Feb 02 16:28	29° ≈ 28'50	
direct	5455 Mar 09 18:09	29°≈03'03		evening set	5456 Feb 05 19:03	27° ≈ 55′19	
	5455 Mar 13 14:25	0° ∀		inferior conj	5456 Feb 11 03:04	21° ≈ 39'36	2°31'22
morning max el	5455 Mar 21 06:26	5° ¥ 56′20	24°41'54	minimum elong	5456 Feb 11 00:40	21° ≈ 47'55	2°30'41
desc. node	5455 Mar 23 23:44	8° ¥ 51′09		min. Earth dist.	5456 Feb 11 08:48	21° ≈ 19'41	0.67987 AU
	5455 Apr 08 21:22	0 ° Υ		morning rise	5456 Feb 16 06:06	15° ≈ 27'17	
morning set	5455 Apr 26 06:39	28° Ƴ 10'59		direct	5456 Feb 21 09:23	13° ≈ 13′07	
	5455 Apr 27 07:15	$_{0\circ}$ 8		morning max el	5456 Mar 02 15:33	19° ≈ 18′21	23°12'47
max. Earth dist.	5455 Apr 29 21:27	4° 8 40'48	1.37273 AU	desc. node	5456 Mar 09 20:45	27° ≈ 39'27	
	1				5456 Mar 11 16:10	0° ∀	
superior conj	5455 May 06 14:03	17° 8 18'58	-1°16'16		5456 Apr 01 01:28	0°Υ	
minimum elong	5455 May 06 18:17	17° 8 39'34		morning set	5456 Apr 06 12:02	8° Υ 54'49	
mmmam trong	5455 May 12 23:35	0°Ⅱ	1 1007	max. Earth dist.	5456 Apr 10 16:57	16° Y '04'59	1.39457 AU
asc. node	5455 May 14 18:39	3° I I35'35		max. Larm dist.	3430 Apr 10 10.57	10 10437	1.57457 AU
evening rise	5455 May 15 02:54	4° Ⅱ 16'45		superior conj	5456 Apr 18 08:34	29° Ƴ 48'01	1042140
evening rise	•	0°9			•	0° 8 11'37	
	5455 May 30 09:09		10020120	minimum elong	5456 Apr 18 13:40		1-42-14
evening max el	5455 May 31 23:22	1°541'08	19°20'28		5456 Apr 18 11:10	0°8	
retrograde	5455 Jun 10 05:20	6°512'29		evening rise	5456 Apr 27 20:47	17° 8 52'31	
evening set	5455 Jun 12 04:12	6° © 01'16		asc. node	5456 Apr 30 15:42	23° 8 12'16	
desc. node	5455 Jun 19 22:57	2° © 23'26			5456 May 04 08:10	Π °0	
inferior conj	5455 Jun 20 17:19	1° © 53'28	-0°13'42	evening max el	5456 May 14 01:14	13° Ⅱ 57'28	18°36'03
minimum elong	5455 Jun 20 16:44	1° 9 54'27	0°13'30	retrograde	5456 May 21 21:34	17° Ⅱ 49'54	
transit middle	5455 Jun 20 16:44	1° 9 54'27	0°13'30	evening set	5456 May 24 02:18	17° Ⅲ 32'42	
transit begin	5455 Jun 20 14:39	1° © 57'52		inferior conj	5456 May 31 19:23	13° Ⅲ 06′05	1°25'20
transit end	5455 Jun 20 18:48	1° © 51'02		minimum elong	5456 May 31 22:14	13° Ⅱ 00'36	1°24'22
min. Earth dist.	5455 Jun 23 10:03	0° © 07'49	0.55960 AU	min. Earth dist.	5456 Jun 04 03:46	10° Ⅲ 33'01	0.57700 AU
	5455 Jun 23 15:00	30°R Ⅱ		desc. node	5456 Jun 05 19:58	9° ∏ 23'18	
morning rise	5455 Jun 29 02:22	27° I 10'57		morning rise	5456 Jun 08 14:54	7° ∏ 48'11	
direct	5455 Jul 03 22:45	26° I 17'21		direct	5456 Jun 14 09:04	6° ∏ 24'59	
uncet	5455 Jul 13 22:44	0°95		morning max el	5456 Jun 28 18:09	14° I I00'57	26920145
marning may al			25014!11	morning max er		0°95	20 39 43
morning max el	5455 Jul 18 01:34	3°926'51	25-14-11	1	5456 Jul 11 11:36		
	5455 Aug 05 20:54	0° Ω		asc. node	5456 Jul 27 14:57	29° © 17'33	
asc. node	5455 Aug 10 17:56	9° Ω 26'49			5456 Jul 27 23:02	0 ° Ω	
morning set	5455 Aug 13 16:44	15° Ω 34'44		morning set	5456 Jul 28 03:00	0° Ω 20'54	
	5455 Aug 20 07:50	0° m ∕					
				superior conj	5456 Aug 04 02:31	15° Ω 32'58	1°10'58
superior conj	5455 Aug 20 14:52	0° Mp38′36	1°26'44	minimum elong	5456 Aug 04 00:13	15° Ω 20′16	1°10'35
minimum elong	5455 Aug 20 12:44	0°Mp26′56	1°26'29	max. Earth dist.	5456 Aug 04 08:19	16° Ω 05′03	1.31990 AU
max. Earth dist.	5455 Aug 21 22:03	3° m 29'12	1.32476 AU	evening rise	5456 Aug 10 23:31	0° ™ 29'35	
evening rise	5455 Aug 27 17:51	15° m 53'39			5456 Aug 10 17:55	0° m ∕	
	5455 Sep 03 23:12	0∘ ত			5456 Aug 27 01:24	0∘ ⊽	
desc. node	5455 Sep 15 22:12	19° ≏ 41'29		desc. node	5456 Sep 01 19:14	8° ≏ 14'56	
	5455 Sep 23 17:24	0° M .		evening max el	5456 Sep 10 09:56		26°52'49
evening max el	5455 Sep 29 05:38	5°M52'51	27924124			18-320001	
retrograde	0.00 Sep 25 00.50			retrograde	*	18° Ω 06'01 25° Ω 15'53	20 32 49
retrograde	5455 Oct 13 00:13		27 24 24	retrograde	5456 Sep 24 07:24	25° ≏ 15'53	20 32 49
evening set	5455 Oct 13 00:13	13° ML 07'17	21 24 24	evening set	5456 Sep 24 07:24 5456 Oct 01 06:11	25° £ 15'53 23° £ 10'57	
evening set	5455 Oct 20 04:16	13°M07'17 10°M39'48		evening set min. Earth dist.	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03	25° £ 15'53 23° £ 10'57 20° £ 33'04	0.60495 AU
min. Earth dist.	5455 Oct 20 04:16 5455 Oct 23 19:36	13°M07'17 10°M39'48 7°M43'16	0.62497 AU	evening set min. Earth dist. inferior conj	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47	25° Ω 15'53 23° Ω 10'57 20° Ω 33'04 17° Ω 54'13	0.60495 AU -4°24'42
min. Earth dist. inferior conj	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33	13°M07'17 10°M39'48 7°M43'16 5°M00'30	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08	25° \omega 15'53 23° \omega 10'57 20° \omega 33'04 17° \omega 54'13 17° \omega 41'02	0.60495 AU -4°24'42
min. Earth dist.	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong morning rise	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06	25° \$\Omega\$ 15'53 23° \$\Omega\$ 10'57 20° \$\Omega\$ 33'04 17° \$\Omega\$ 54'13 17° \$\Omega\$ 41'02 13° \$\Omega\$ 08'35	0.60495 AU -4°24'42
min. Earth dist. inferior conj minimum elong	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°RΩ	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong morning rise direct	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37	25° \(\Omega 15'53\) 23° \(\Omega 10'57\) 20° \(\Omega 33'04\) 17° \(\Omega 54'13\) 17° \(\Omega 41'02\) 13° \(\Omega 08'35\) 12° \(\Omega 47'57\)	0.60495 AU -4°24'42
min. Earth dist. inferior conj minimum elong morning rise	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R <u>\$\Pi\$</u> 29° \$\Pi\$53'33	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14	25° \(\Omega 15'53\) 23° \(\Omega 10'57\) 20° \(\Omega 33'04\) 17° \(\Omega 54'13\) 17° \(\Omega 41'02\) 13° \(\Omega 08'35\) 12° \(\Omega 47'57\) 14° \(\Omega 51'47\)	0.60495 AU -4°24'42 4°23'13
min. Earth dist. inferior conj minimum elong morning rise direct	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R <u>Ω</u> 29° Ω 53'33 29° Ω 28'39	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong morning rise direct	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16	25° \(\Omega\) 15'53 23° \(\Omega\) 10'57 20° \(\Omega\) 33'04 17° \(\Omega\) 5'1'3 17° \(\Omega\) 41'02 13° \(\Omega\) 08'35 12° \(\Omega\) 47'57 14° \(\Omega\) 51'47 16° \(\Omega\) 26'26	0.60495 AU -4°24'42
min. Earth dist. inferior conj minimum elong morning rise	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14	25° \(\Omega 15'53\) 23° \(\Omega 10'57\) 20° \(\Omega 33'04\) 17° \(\Omega 54'13\) 17° \(\Omega 41'02\) 13° \(\Omega 08'35\) 12° \(\Omega 47'57\) 14° \(\Omega 51'47\)	0.60495 AU -4°24'42 4°23'13
min. Earth dist. inferior conj minimum elong morning rise direct	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R <u>Ω</u> 29° Ω 53'33 29° Ω 28'39	0.62497 AU -3°27'03	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16	25° \(\Omega\) 15'53 23° \(\Omega\) 10'57 20° \(\Omega\) 33'04 17° \(\Omega\) 5'1'3 17° \(\Omega\) 41'02 13° \(\Omega\) 08'35 12° \(\Omega\) 47'57 14° \(\Omega\) 51'47 16° \(\Omega\) 26'26	0.60495 AU -4°24'42 4°23'13
min. Earth dist. inferior conj minimum elong morning rise direct	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R	0.62497 AU -3°27'03 3°25'08	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37	25° \(\Omega\) 15'53 23° \(\Omega\) 10'57 20° \(\Omega\) 33'04 17° \(\Omega\) 54'13 17° \(\Omega\) 41'02 13° \(\Omega\) 08'35 12° \(\Omega\) 47'57 14° \(\Omega\) 51'47 16° \(\Omega\) 26'26 0° \(\mathbb{M}\).	0.60495 AU -4°24'42 4°23'13
min. Earth dist. inferior conj minimum elong morning rise direct asc. node	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R• 29°••53'33 29°••28'39 29°•40'36 0°M	0.62497 AU -3°27'03 3°25'08	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37	25° \(\Omega\) 15'53 23° \(\Omega\) 10'57 20° \(\Omega\) 33'04 17° \(\Omega\) 54'13 17° \(\Omega\) 41'02 13° \(\Omega\) 08'35 12° \(\Omega\) 47'57 14° \(\Omega\) 51'47 16° \(\Omega\) 26'26 0° \(\mathbb{M}\).	0.60495 AU -4°24'42 4°23'13
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R• 29°••53'33 29°••28'39 29°••40'36 0°•M 2°M56'14	0.62497 AU -3°27'03 3°25'08	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11	25° \(\Omega\) 15'53 23° \(\Omega\) 10'57 20° \(\Omega\) 33'04 17° \(\Omega\) 54'13 17° \(\Omega\) 41'02 13° \(\Omega\) 08'35 12° \(\Omega\) 47'57 14° \(\Omega\) 51'47 16° \(\Omega\) 26'26 0° \(\Omega\) 11° \(\Omega\) 22'40	0.60495 AU -4°24'42 4°23'13 18°04'56
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R• 29°••53'33 29°••28'39 29°••40'36 0°•• 2°M56'14 27°M47'56	0.62497 AU -3°27'03 3°25'08	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11	25° \$\Omega\$15'53 23° \$\Omega\$10'57 20° \$\Omega\$3'04 17° \$\Omega\$54'13 17° \$\Omega\$41'02 13° \$\Omega\$08'35 12° \$\Omega\$47'57 14° \$\Omega\$51'47 16° \$\Omega\$26'26 0° \$\Omega\$11° \$\Omega\$22'40	0.60495 AU -4°24'42 4°23'13 18°04'56
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R\$\Omega\$ 29°\Omega\$28'39 29°\Omega\$40'36 0°M 2°M56'14 27°M47'56 0°\neq 7	0.62497 AU -3°27'03 3°25'08	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 03:12 5456 Nov 20 07:45	25° \$\Pi\$15'53 23° \$\Pi\$10'57 20° \$\Pi\$33'04 17° \$\Pi\$54'13 17° \$\Pi\$41'02 13° \$\Pi\$08'35 12° \$\Pi\$47'57 14° \$\Pi\$51'47 16° \$\Pi\$26'26 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$22'40 29° \$\mathbf{m}\$22'29 29° \$\mathbf{m}\$39'46 0° \$\nall\$	0.60495 AU -4°24'42 4°23'13 18°04'56
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R\$\Omega\$ 29°\Omega\$53'33 29°\Omega\$28'39 29°\Omega\$40'36 0°M 2°M56'14 27°M47'56 0°\ne\$ 17°\ne\$31'14	0.62497 AU -3°27'03 3°25'08 17°50'02	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.	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 03:12 5456 Nov 20 07:45 5456 Nov 27 15:06	25° \$\Delta 15'53\) 23° \$\Delta 10'57\) 20° \$\Delta 33'04\) 17° \$\Delta 54'13\) 17° \$\Delta 41'02\) 13° \$\Delta 08'35\) 12° \$\Delta 47'57\) 14° \$\Delta 51'47\) 16° \$\Delta 26'26\) 0° \$\mathrm{M}\$ 22'40\) 29° \$\mathrm{M}\$\Delta 22'40\) 29° \$\mathrm{M}\$\Delta 22'40\) 0° \$\mathrm{A}\$ 12° \$\mathrm{A}\$\Jan 36'31\]	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R\$\Overline{\Ove	0.62497 AU -3°27'03 3°25'08 17°50'02	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	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 03:12 5456 Nov 20 07:45 5456 Nov 21 15:06 5456 Nov 28 18:30	25° \$\Delta 15'53\) 23° \$\Delta 10'57\) 20° \$\Delta 33'04\) 17° \$\Delta 54'13\) 17° \$\Delta 41'02\) 13° \$\Delta 08'35\) 12° \$\Delta 47'57\) 14° \$\Delta 51'47\) 16° \$\Delta 26'26\) 0° \$\mathrm{M}\$ 22'40\) 29° \$\mathrm{M}\$ 22'40\) 29° \$\mathrm{M}\$ 22'29\) 29° \$\mathrm{M}\$ 39'46\) 0° \$\mathrm{A}\$ 12° \$\mathrm{A}\$ 36'31\] 14° \$\mathrm{A}\$ 30'41	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37 5455 Dec 12 21:28	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R£ 29°£53'33 29°£28'39 29°£40'36 0°M 2°M56'14 27°M47'56 0°\$\sqrt{3}\$ 17°\$\sqrt{3}\$1'14 17°\$\sqrt{4}\$1'30 23°\$\sqrt{4}4'07	0.62497 AU -3°27'03 3°25'08 17°50'02 0°26'13 0°25'54	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.	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 03:12 5456 Nov 20 07:45 5456 Nov 22 15:06 5456 Nov 28 18:30 5456 Dec 03 00:15	25° \$\Delta 15'53\) 23° \$\Delta 10'57\) 20° \$\Delta 33'04\) 17° \$\Delta 54'13\) 17° \$\Delta 41'02\) 13° \$\Delta 08'35\) 12° \$\Delta 47'57\) 14° \$\Delta 51'47\) 16° \$\Delta 26'26\) 0° \$\mathrm{M}\$ 22'40\) 29° \$\mathrm{M}\$ 22'40\) 29° \$\mathrm{M}\$ 22'40\) 29° \$\mathrm{M}\$ 39'46\) 0° \$\mathrm{A}\$ 12° \$\mathrm{A}\$ 36'31\] 14° \$\mathrm{A}\$ 30'41\] 21° \$\mathrm{A}\$ 26'02	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37 5455 Dec 12 21:28 5455 Dec 16 03:41	13°M.07'17 10°M.39'48 7°M.43'16 5°M.00'30 4°M.46'35 30°R.2 29°.28'39 29°.24'36 0°.M. 2°M.56'14 27°M.47'56 0°.\$\textstyle{3}\$ 17°.\$\textstyle{3}\$ 11'4 17°.\$\textstyle{4}\$ 23°.\$\textstyle{4}\$ 29°.\$\textstyle{3}\$ 31'14 17°.\$\textstyle{4}\$ 23°.\$\textstyle{4}\$ 29°.\$\textstyle{3}\$ 31'47	0.62497 AU -3°27'03 3°25'08 17°50'02	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	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 07:45 5456 Nov 20 07:45 5456 Nov 28 18:30 5456 Dec 03 00:15 5456 Dec 08 10:46	25° \(\Omega 15'53\) 23° \(\Omega 10'57\) 20° \(\Omega 33'04\) 17° \(\Omega 54'13\) 17° \(\Omega 41'02\) 13° \(\Omega 08'35\) 12° \(\Omega 47'57\) 14° \(\Omega 51'47\) 16° \(\Omega 26'26\) 0° \(\Omega \) 11° \(\Omega 22'29\) 29° \(\Omega 39'46\) 0° \(\Therefore\) 12° \(\Therefore\) 30'41 21° \(\Therefore\) 30'42 0° \(\Therefore\)	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46
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.	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37 5455 Dec 12 21:28 5455 Dec 16 03:41 5455 Dec 16 17:36	13° \moori17 10° \moori139'48 7° \moori143'16 5° \moori30 4° \moori146'35 30° \mathref{R} \overline{\Omega} 29° \overline{\Omega} 53'33 29° \overline{\Omega} 28'39 29° \overline{\Omega} 40'36 0° \mooring 2° \mooring 56'14 27° \mooring 47'56 0° \nooring 17° \nooring 31'14 17° \nooring 31'14 17° \nooring 34'1'30 23° \nooring 44'07 29° \nooring 03'47 0° \overline{\Omega}	0.62497 AU -3°27'03 3°25'08 17°50'02 0°26'13 0°25'54	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	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 07:45 5456 Nov 20 07:45 5456 Nov 28 18:30 5456 Dec 03 00:15 5456 Dec 29 11:59	25° № 15'53 23° № 10'57 20° № 33'04 17° № 54'13 17° № 41'02 13° № 08'35 12° № 47'57 14° № 51'47 16° № 26'26 0° № 11° № 22'40 29° № 22'29 29° № 39'46 0° ※ 12° ※ 36'31 14° ※ 30'41 21° ※ 26'02 0° % 0° %	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46 1.41773 AU
min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37 5455 Dec 12 21:28 5455 Dec 16 03:41 5455 Dec 16 17:36 5455 Dec 23 23:16	13° M 07'17 10° M 39'48 7° M 43'16 5° M 00'30 4° M 46'35 30° R Ω 29° Ω 28'39 29° Ω 40'36 0° M 2° M 56'14 27° M 47'56 0° ズ 17° ズ 31'14 17° ズ 41'30 23° ズ 44'07 29° ズ 03'47 0° ℧ 11° ℧ 26'43	0.62497 AU -3°27'03 3°25'08 17°50'02 0°26'13 0°25'54	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	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 07:45 5456 Nov 20 07:45 5456 Nov 28 18:30 5456 Dec 03 00:15 5456 Dec 29 11:59 5457 Jan 05 09:54	25° № 15'53 23° № 10'57 20° № 33'04 17° № 54'13 17° № 41'02 13° № 08'35 12° № 47'57 14° № 51'47 16° № 26'26 0° № 11° № 22'40 29° № 22'29 29° № 39'46 0° ※ 12° ※ 36'31 14° ※ 30'41 21° ※ 26'02 0° № 7° ≈ 58'14	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46 1.41773 AU
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	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37 5455 Dec 16 03:41 5455 Dec 16 17:36 5455 Dec 23 23:16 5456 Jan 05 06:15	13°M07'17 10°M39'48 7°M43'16 5°M00'30 4°M46'35 30°R\$\Overline{\Ov	0.62497 AU -3°27'03 3°25'08 17°50'02 0°26'13 0°25'54 1.43527 AU	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	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 03:12 5456 Nov 20 07:45 5456 Nov 20 07:45 5456 Nov 28 18:30 5456 Dec 08 10:46 5456 Dec 29 11:59 5457 Jan 05 09:54 5457 Jan 15 08:50	25° № 15'53 23° № 10'57 20° № 33'04 17° № 54'13 17° № 41'02 13° № 08'35 12° № 47'57 14° № 51'47 16° № 26'26 0° № 11° № 22'40 29° № 22'29 29° № 39'46 0° ※ 12° ※ 36'31 14° ※ 30'41 21° ※ 26'02 0° % 0° % 7° ≈ 58'14 13° ≈ 53'00	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46 1.41773 AU
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.	5455 Oct 20 04:16 5455 Oct 23 19:36 5455 Oct 26 16:33 5455 Oct 26 22:25 5455 Nov 02 11:18 5455 Nov 02 18:19 5455 Nov 05 02:42 5455 Nov 06 17:13 5455 Nov 07 17:04 5455 Nov 11 21:09 5455 Nov 27 20:51 5455 Nov 29 02:32 5455 Dec 09 04:11 5455 Dec 09 06:37 5455 Dec 12 21:28 5455 Dec 16 03:41 5455 Dec 16 17:36 5455 Dec 23 23:16	13° M 07'17 10° M 39'48 7° M 43'16 5° M 00'30 4° M 46'35 30° R Ω 29° Ω 28'39 29° Ω 40'36 0° M 2° M 56'14 27° M 47'56 0° ズ 17° ズ 31'14 17° ズ 41'30 23° ズ 44'07 29° ズ 03'47 0° ℧ 11° ℧ 26'43	0.62497 AU -3°27'03 3°25'08 17°50'02 0°26'13 0°25'54 1.43527 AU	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	5456 Sep 24 07:24 5456 Oct 01 06:11 5456 Oct 05 00:03 5456 Oct 08 04:47 5456 Oct 08 11:08 5456 Oct 15 18:06 5456 Oct 18 01:37 5456 Oct 23 14:14 5456 Oct 25 10:16 5456 Nov 03 22:37 5456 Nov 10 04:11 5456 Nov 19 23:19 5456 Nov 20 07:45 5456 Nov 20 07:45 5456 Nov 28 18:30 5456 Dec 03 00:15 5456 Dec 29 11:59 5457 Jan 05 09:54	25° № 15'53 23° № 10'57 20° № 33'04 17° № 54'13 17° № 41'02 13° № 08'35 12° № 47'57 14° № 51'47 16° № 26'26 0° № 11° № 22'40 29° № 22'29 29° № 39'46 0° ※ 12° ※ 36'31 14° ※ 30'41 21° ※ 26'02 0° № 7° ≈ 58'14	0.60495 AU -4°24'42 4°23'13 18°04'56 1°00'15 0°59'46 1.41773 AU

	5457 1 20 02 21	11056140			5457 D 10 22 42	210=220026	24002150
evening set	5457 Jan 20 02:21	11°≈56'49		evening max el	5457 Dec 18 23:43	21° る 38'26	24°02′58
inferior conj	5457 Jan 25 11:10	5°≈33'36	1°52'29	retrograde	5457 Dec 30 01:25	28° る 09'13	
minimum elong	5457 Jan 25 09:00	5° ≈ 41'07	1°51'45	evening set	5458 Jan 04 07:38	25° ප් 57'48	
min. Earth dist.	5457 Jan 25 05:15	5° ≈ 54'04	0.68148 AU	asc. node	5458 Jan 06 10:30	23° る 49'36	
	5457 Jan 29 23:44	30°Ŗる		min. Earth dist.	5458 Jan 09 01:43	20° る 28'29	0.67932 AU
morning rise	5457 Jan 30 15:32	29° る 24'54		inferior conj	5458 Jan 09 18:39	19° る 31'09	1°06'19
direct	5457 Feb 04 04:14	27° る 33'25		minimum elong	5458 Jan 09 17:09	19° る 36'11	1°05'45
	5457 Feb 10 00:30	0° ≈		morning rise	5458 Jan 15 02:44	13° る 27'41	
morning max el	5457 Feb 13 04:30	2°≈48'57	21°45'58	direct	5458 Jan 19 01:43	11° る 58'45	
desc. node	5457 Feb 24 17:46	17° ≈ 06'05		morning max el	5458 Jan 27 00:19	16° පි 31'00	20°28'26
dese. Hode	5457 Mar 05 16:22	0° ∀		morning max or	5458 Feb 06 18:10	0° ≈	20 20 20
morning set	5457 Mar 17 13:02	18°) 18'10		desc. node	5458 Feb 11 14:47	0 ~ 7° ≈ 00'38	
•			1 41 602 411				
max. Earth dist.	5457 Mar 23 16:23	28°) 18′15	1.41603 AU	morning set	5458 Feb 24 14:27	26°≈39'40	
	5457 Mar 24 16:47	$0^{\circ}\mathbf{\Upsilon}$			5458 Feb 26 17:57	0° ∀	
				max. Earth dist.	5458 Mar 05 22:45	11° ∺ 25′00	1.43430 AU
superior conj	5457 Mar 31 07:47	11° Ƴ 20'48	-2°02'14				
minimum elong	5457 Mar 31 11:46	11° Y 38'16	2°02'02	superior conj	5458 Mar 12 07:06	21° ∺ 48′09	-2°09'17
	5457 Apr 10 15:40	$B_{\circ 0}$		minimum elong	5458 Mar 12 06:43	21°) 46′35	2°09'18
evening rise	5457 Apr 11 02:40	0° 8 50'38			5458 Mar 17 03:53	$0^{\circ}\mathbf{Y}$	
asc. node	5457 Apr 17 12:44	12° 8 28'42		evening rise	5458 Mar 24 16:16	13° Y '01'58	
evening max el	5457 Apr 27 10:01	26° 8 44'10	18°11'45		5458 Apr 03 13:54	0°8	
evening max er	5457 May 02 14:07	0°Ⅱ	10 11 43	asc. node	5458 Apr 04 09:46	1° 8 18'27	
. 1						_	1000750
retrograde	5457 May 04 08:21	0° Ⅱ 13'41		evening max el	5458 Apr 10 22:21	9° 8 53'00	18°06'58
	5457 May 06 03:10	30° ₹ 8		retrograde	5458 Apr 17 09:51	13° 8 14'50	
evening set	5457 May 06 19:59	29° 8 47'24		evening set	5458 Apr 20 04:04	12° 8 37'26	
inferior conj	5457 May 13 18:43	25° 8 00'18	2°33'56	inferior conj	5458 Apr 26 12:17	7° 8 30'33	3°13'41
minimum elong	5457 May 13 22:05	24° 8 52'44	2°33'05	minimum elong	5458 Apr 26 14:29	7° 8 24'52	3°13'22
min. Earth dist.	5457 May 17 03:35	22° 8 00'25	0.59835 AU	min. Earth dist.	5458 Apr 29 11:34	4° 8 28'40	0.62036 AU
morning rise	5457 May 20 21:31	19° 8 14'50		morning rise	5458 May 02 23:12	1° 8 28'21	
desc. node	5457 May 23 17:01	17° 8 54'49			5458 May 05 11:02	30° ₹Ƴ	
direct	5457 May 27 08:24	17° 8 17'25		direct	5458 May 09 18:38	29° Ƴ 01'14	
morning max el	5457 Jun 10 17:04	25° 8 10'12	27°35'07	desc. node	5458 May 10 14:02	29° Υ 03'11	
morning max er	5457 Jun 15 03:47	0°II	27 33 07	dese. Hode	5458 May 14 08:03	0°8	
					•		27052112
	5457 Jul 04 20:11	0°95		morning max el	5458 May 23 22:01	7° 8 01'47	2/*53/13
morning set	5457 Jul 12 10:08	14° © 55'16			5458 Jun 10 09:08	Π °0	
asc. node	5457 Jul 14 11:58	19° © 18'09		morning set	5458 Jun 26 12:10	29° Ⅱ 11'43	
max. Earth dist.	5457 Jul 18 19:29	28° © 40'56	1.31921 AU		5458 Jun 26 21:37	0 \circ \odot	
	5457 Jul 19 09:50	$0 { m ^o} \Omega$		asc. node	5458 Jul 01 09:00	9° 5 24'10	
				max. Earth dist.	5458 Jul 02 03:36	11° 5 04'19	1.32282 AU
superior conj	5457 Jul 19 14:04	0° Ω 23′23	0°50'51				
minimum elong	5457 Jul 19 12:05	0° Ω 12'24	0°50'27	superior conj	5458 Jul 03 23:49	15° © 04'28	0°26'57
evening rise	5457 Jul 26 09:06	15° Ω 14'08		minimum elong	5458 Jul 03 22:36	14°957'50	0°26'40
evening noe	5457 Aug 02 17:14	0° m)		evening rise	5458 Jul 10 20:38	0° Ω 01'06	0 20 .0
desc. node	5457 Aug 19 16:14	25° m 43'30		evening rise	5458 Jul 10 20:25	0° Ω	
	-	-	25949150		5458 Jul 27 09:24	0° m)	
evening max el	5457 Aug 23 06:36	29° m 29'14	23 46 39				2.4020150
_	5457 Aug 23 19:44	0∘ ⊽		evening max el	5458 Aug 04 20:36	10° m 09'01	24°20'58
retrograde	5457 Sep 06 05:33	6° Ω 35'27		desc. node	5458 Aug 06 13:16	11° m) 41'39	
evening set	5457 Sep 12 10:35	5° ≙ 04'01		retrograde	5458 Aug 18 16:32	17° m) 06'55	
min. Earth dist.	5457 Sep 16 18:53	2° ≏ 27'57	0.58426 AU	evening set	5458 Aug 23 14:30	16° m 13'09	
inferior conj	5457 Sep 19 23:18	0° ჲ 10'33	-5°06'53	min. Earth dist.	5458 Aug 29 07:34	13° m 19'58	0.56567 AU
minimum elong	5457 Sep 20 03:31	0° £ 02'55	5°06'23	inferior conj	5458 Aug 31 21:45	11° M y 42'07	-5°18'38
	5457 Sep 20 05:08	30°R. Mp		minimum elong	5458 Aug 31 20:26	11° m)44'12	5°18'36
morning rise	5457 Sep 27 22:44	25° Mp 48'08		morning rise	5458 Sep 09 04:48	7° ™ 40'32	
direct	5457 Sep 30 08:49	25° m 29'20		direct	5458 Sep 11 21:02	7° m/21'23	
morning max el	5457 Oct 08 16:38	29° m 28'32	18°40'15	morning max el	5458 Sep 21 12:59	11° m) 52'44	19°37'16
morning mux or	5457 Oct 08 10:38 5457 Oct 09 05:25	0° ∵	10 10 15	asc. node	5458 Sep 27 08:16	18° m 51'30	17 5/10
aca mada				asc. node	•		
asc. node	5457 Oct 10 11:15	1° £ 20′26			5458 Oct 03 23:16	0° Ω	
morning set	5457 Oct 24 22:54	25° Ω 29'06		morning set	5458 Oct 09 01:25	9° ≏ 57'17	
	5457 Oct 27 06:31	0°M₊					
				superior conj	5458 Oct 16 23:34	25° ≏ 53'20	1°37'40
superior conj	5457 Nov 02 15:34	12°M15'00	1°23'50	minimum elong	5458 Oct 17 01:28	26° ≙ 02'41	1°37'33
minimum elong	5457 Nov 02 18:53	12°M30'34	1°23'30		5458 Oct 19 02:02	0° M	
max. Earth dist.	5457 Nov 09 21:23	25°M25'05	1.39711 AU	max. Earth dist.	5458 Oct 23 02:02	7°MJ35'13	1.37608 AU
	5457 Nov 12 12:53	0°⊀		evening rise	5458 Oct 26 20:10	14°ML24'31	
evening rise	5457 Nov 13 22:57	2° ₹ ¹24'36		desc. node	5458 Nov 02 12:30	25°M50'08	
desc. node	5457 Nov 15 15:30	5° √ 14'05			5458 Nov 05 02:08	0° ∡ 7	
2000. House	5.5, 1.0, 15 15.50	2 7 1703			2.201.01 02 02.00	~ ~	
	5457 Dec 01 17:30	0° ろ			5458 Nov 26 12:47	0°る	

evening max el	5458 Dec 01 12:23	5° ਰ 21'56	25°18'44	max. Earth dist.	5459 Oct 05 11:02		1.35693 AU
retrograde	5458 Dec 13 13:38 5458 Dec 19 09:14	12°る19'06 9°る54'08		evening rise	5459 Oct 09 12:41	27° ≗ 18'02 0° ™	
evening set min. Earth dist.	5458 Dec 23 19:50	9 03408 4° る 59'04	0.67362 AU	desc. node	5459 Oct 10 23:39 5459 Oct 20 09:32	16°M14'31	
asc. node	5458 Dec 24 07:33	4 03904 4° る 21'13	0.07302 AU	desc. Hode	5459 Oct 29 10:28	10 IIC1431 0° √	
inferior conj	5458 Dec 24 07.55	4 3 21 13 3° る 28'48	0°13'40	evening max el	5459 Nov 14 01:18	0 x . 19° ∡ '05'40	26°22'47
minimum elong	5458 Dec 24 23:41 5458 Dec 24 23:20	3° る 29'55	0°13'34	retrograde	5459 Nov 26 20:40	26° х 17'44	20 22 47
transit middle	5458 Dec 24 23:20	3° る 29'55	0°13'34	evening set	5459 Dec 03 05:25	23° × ⁷ 42'32	
transit begin	5458 Dec 24 21:49	3° る 34'51	0 13 3 1	min. Earth dist.	5459 Dec 07 09:15	19° ×7 22'40	0.66447 AU
transit end	5458 Dec 25 00:51	3° る 24'59		inferior conj	5459 Dec 09 00:25	17° ∡ ′23'38	
	5458 Dec 27 19:52	30°R. ✓		minimum elong	5459 Dec 09 01:38	17° ∡ 19'56	0°43'52
morning rise	5458 Dec 30 13:43	27° ∡ ³32'36		asc. node	5459 Dec 11 04:35	14° ₹ ′50'40	
direct	5459 Jan 03 00:30	26° ₹ '24'02		morning rise	5459 Dec 14 22:28	11° ∡ ³37'19	
	5459 Jan 09 18:24	5°0		direct	5459 Dec 17 22:56	10° ∡ ¹45'46	
morning max el	5459 Jan 10 04:00	0° る 23'27	19°24'24	morning max el	5459 Dec 24 14:39	14° ∡ °23'40	18°36'05
greatest brilliancy	5459 Jan 23 07:58	17° る 53'53	-0.7m		5460 Jan 05 02:46	ರ°0	
desc. node	5459 Jan 29 11:47	27° る 14'54		morning set	5460 Jan 14 07:21	14° る 27'59	
	5459 Jan 31 06:46	0° ≈		desc. node	5460 Jan 16 08:49	17° る 43'42	
morning set	5459 Feb 03 12:33	4° ≈ 59'57			5460 Jan 24 03:43	0° ≈	
max. Earth dist.	5459 Feb 16 11:56	25° ≈ 15′10	1.44718 AU				
	5459 Feb 19 11:45	0° ∀		superior conj	5460 Jan 30 10:10	9° ≈ 50'02	-1°28'00
				minimum elong	5460 Jan 30 00:46	9° ≈ 13'12	1°27'01
superior conj	5459 Feb 20 05:11	1° ¥ 09′28		max. Earth dist.	5460 Jan 30 06:08		1.45321 AU
minimum elong	5459 Feb 19 22:25	0°) 42′29	1°58'05		5460 Feb 12 05:17	0° ∀	
evening rise	5459 Mar 06 09:06	24°) (17′27		evening rise	5460 Feb 15 02:40	4°) 35′56	
_	5459 Mar 09 19:09	0° Υ		greatest brilliancy	5460 Feb 23 14:06	18° ¥ 05'37	-0.8m
asc. node	5459 Mar 22 06:49	19° Ƴ 32'28			5460 Mar 02 10:50	0°Υ ••••••	
evening max el	5459 Mar 25 11:10	23° Y 15'19	18°21'02	evening max el	5460 Mar 07 21:51	6°Υ45'06	18°53'01
retrograde	5459 Mar 31 21:38	26° Y 43′20		asc. node	5460 Mar 08 03:52	7° Υ 00'11	
evening set	5459 Apr 03 22:16	25° Y 53'30	2020126	retrograde	5460 Mar 14 15:51	10° Y 31'36 9° Y 28'30	
inferior conj	5459 Apr 09 19:53	20° Υ 27'59 20° Υ 26'15	3°30'26 3°30'25	evening set	5460 Mar 17 23:15	3° Υ 45'53	2020120
minimum elong min. Earth dist.	5459 Apr 09 20:30	20°γ′26′15 17° Υ 45'46	0.64039 AU	inferior conj	5460 Mar 23 13:45	3°°°¥45'53 3°°°¥48'25	3°29'38 3°29'34
morning rise	5459 Apr 12 04:42 5459 Apr 15 17:49	17 γ 43 46 14° Υ 17'21	0.04039 AU	minimum elong min. Earth dist.	5460 Mar 23 12:56 5460 Mar 25 06:52	3 1 48 23 1° Υ 37'42	0.65684 AU
direct	5459 Apr 22 13:17	14 γ 1721 11° Υ 32'11		iiiii. Eartii tiist.	5460 Mar 26 15:47	1 1 3 / 42 30°R ∺	0.03084 AU
desc. node	5459 Apr 27 11:04	11 γ 32 11 12° γ 45'07		morning rise	5460 Mar 29 02:11	27° ₩ 31'39	
morning max el	5459 May 06 06:44	19° Y '30'24	27°34'25	direct	5460 Apr 04 14:48	24°) 42'10	
morning max cr	5459 May 15 05:02	0°8	27 3123	desc. node	5460 Apr 13 08:06	28°\(\frac{12}{10}\)	
	5459 Jun 03 08:54	0°II		dese. node	5460 Apr 15 03:15	0°Υ	
morning set	5459 Jun 10 06:38	13° ∏ 02'45		morning max el	5460 Apr 17 16:47	2° Υ 26'14	26°44'07
max. Earth dist.	5459 Jun 15 04:52		1.33093 AU	<i>y</i>	5460 May 08 10:17	0°8	
				morning set	5460 May 23 14:19	26° 8 18'46	
superior conj	5459 Jun 18 05:52	29° Ⅲ 30′19	-0°00'05	•	5460 May 25 12:20	$\Pi^{\circ}0$	
minimum elong	5459 Jun 18 05:52	29° ∏ 30′21	0°00'07	max. Earth dist.	5460 May 27 20:06	4° Ⅱ 34'46	1.34377 AU
behind sun begin	5459 Jun 18 00:31	29° Ⅱ 01'46					
behind sun end	5459 Jun 18 11:13	29° Ⅱ 58'57		superior conj	5460 Jun 01 06:00	13° Ⅲ 34′09	-0°29'20
asc. node	5459 Jun 18 06:04	29° ∏ 31′24		minimum elong	5460 Jun 01 07:35	13° Ⅱ 42'23	0°29'02
	5459 Jun 18 11:24	0 \circ		asc. node	5460 Jun 04 03:07	19° Ⅱ 35'35	
evening rise	5459 Jun 25 08:14	14° © 44'36		evening rise	5460 Jun 08 18:00	29° Ⅱ 18'13	
	5459 Jul 02 23:48	0 \circ Ω			5460 Jun 09 02:02	0°®	
evening max el	5459 Jul 17 09:40	20° Ω 29'59	22°43'18		5460 Jun 27 04:33	0 ° Ω	
desc. node	5459 Jul 24 10:17	25° Ω 36'59		evening max el	5460 Jun 28 05:44	1° Ω 04'19	21°11'17
retrograde	5459 Jul 30 14:44	27° Ω 04'49		retrograde	5460 Jul 10 03:55	6° Ω 57'07	
evening set	5459 Aug 03 00:10	26° Ω 39'38	0.55054.411	desc. node	5460 Jul 10 07:20	6° Ω 57'04	
min. Earth dist.	5459 Aug 10 17:40		0.55254 AU	evening set	5460 Jul 12 10:47	6° Ω 44'56	2017/27
inferior conj minimum elong	5459 Aug 12 01:35 5459 Aug 11 18:07	22° Ω 29'22 22° Ω 40'04		inferior conj minimum elong	5460 Jul 21 19:00 5460 Jul 21 10:33	2° Ω 46'47 2° Ω 58'39	
morning rise	5459 Aug 20 14:05	18° Ω 39'18	4 42 13	min. Earth dist.	5460 Jul 22 03:49	2° Ω 34'24	0.54778 AU
direct	5459 Aug 23 15:34	18° Ω 17'36		mm. Lattii üist.	5460 Jul 27 03:23	2 8 634 24 30°RS	0.57110 AU
morning max el	5459 Sep 03 21:11	23° Ω 31'45	20°55'54	morning rise	5460 Jul 30 10:50	28°\$50'49	
morning max or	5459 Sep 09 12:23	0° Mp	20 0007	direct	5460 Aug 03 00:39	28°\$23'18	
asc. node	5459 Sep 14 05:19	עיי 7° ווע 11'08			5460 Aug 09 13:27	0°Ω	
morning set	5459 Sep 23 09:05	24° Mp 40'18		morning max el	5460 Aug 15 18:04	4° Ω 25'50	22°32'20
	5459 Sep 25 22:33	0° م		asc. node	5460 Aug 31 02:22	26° Ω 06'49	- = = *
	·r				5460 Sep 02 03:23	0° m)	
superior conj	5459 Sep 30 18:55	10° ჲ 05'10	1°43'05	morning set	5460 Sep 06 19:41	9° m/30'48	
minimum elong	5459 Sep 30 19:17		1°43'06	-	-		

	5460 G 12 22 01	2.40 m- 2.014 C	1041124		5461 4 20 06 06	00 m- 2 515 4	1022120
superior conj	5460 Sep 13 22:01	24° Mp 38'46		superior conj	5461 Aug 29 06:06	9° m/25'54	
minimum elong	5460 Sep 13 21:05	24° Mp 33'51	1°41'23	minimum elong	5461 Aug 29 04:17	9° m 16'01	1°33'29
	5460 Sep 16 11:03	0∘ ⊽		max. Earth dist.	5461 Aug 31 05:21	13° m 41'20	1.32949 AU
max. Earth dist.	5460 Sep 17 04:01	1° ≏ 28'01	1.34114 AU	evening rise	5461 Sep 05 14:33	24° m 57'44	
evening rise	5460 Sep 21 20:06	10° £ 52'32			5461 Sep 08 03:14	0∘ ⊽	
	5460 Oct 02 08:58	0°M		desc. node	5461 Sep 23 03:36	25° ≏ 59'32	
desc. node	5460 Oct 06 06:34	6°M20'22			5461 Sep 25 21:10	0°M₊	
dese. Hode	5460 Oct 23 23:00	0°×7		evening max el	5461 Oct 09 01:20	15°M51'37	27027104
			27007150	•			27 27 04
evening max el	5460 Oct 26 14:05	2° × 39'30	27°07'50	retrograde	5461 Oct 22 17:02	23°M08'53	
retrograde	5460 Nov 08 21:55	9° ₹ 57'14		evening set	5461 Oct 29 20:07	20°M33'25	
evening set	5460 Nov 15 17:58	7° ∡ 17'31		min. Earth dist.	5461 Nov 02 12:42	17° M 21'24	0.63563 AU
min. Earth dist.	5460 Nov 19 15:33	3° ∡ ³32'54	0.65177 AU	inferior conj	5461 Nov 05 03:39	14°M42'33	-2°50'45
inferior conj	5460 Nov 21 18:36	1° ∡ 10′13	-1°46'38	minimum elong	5461 Nov 05 08:38	14° M 29'55	2°48'56
minimum elong	5460 Nov 21 21:41	1° ₹ '01'34	1°45'22	morning rise	5461 Nov 11 22:44	9° M 25'17	
8	5460 Nov 22 19:59	30°RM₁		asc. node	5461 Nov 13 22:40	8°M57'31	
asc. node	5460 Nov 27 01:37	26°M11'24		direct	5461 Nov 14 09:07	8°M56'35	
							17050106
morning rise	5460 Nov 28 02:30	25°M36'49		morning max el	5461 Nov 20 22:55	12° M 21'26	17°50'06
direct	5460 Nov 30 18:44	24°M58'34			5461 Dec 03 00:15	0° ∡	
morning max el	5460 Dec 07 05:56	28°M25'20	18°04'27	morning set	5461 Dec 07 10:35	7° ∡ ¹38'49	
	5460 Dec 08 17:10	0° ∡ ¹					
morning set	5460 Dec 25 07:47	25° ∡ ¹25'09		superior conj	5461 Dec 19 19:13	28° ∡ ³35′16	0°02'16
	5460 Dec 28 02:34	6°0		minimum elong	5461 Dec 19 19:27	28° ∡ ³36'17	0°02'15
desc. node	5461 Jan 02 05:51	8° ರ 22'13		behind sun begin	5461 Dec 19 09:53	27° × 56'54	0 02 13
desc. Hode	5401 Jan 02 05.51	6 022 13		_			
	5461 X 00 16 10	100710110	00.40150	behind sun end	5461 Dec 20 05:01	29° ₹ 15'33	
superior conj	5461 Jan 08 16:48	18° る 42'19		desc. node	5461 Dec 20 02:51	29° ∡ '06'40	
minimum elong	5461 Jan 08 11:24	18° る 20'54	0°43'14		5461 Dec 20 15:52	8°0	
max. Earth dist.	5461 Jan 12 01:55	24° る 02'32	1.45174 AU	max. Earth dist.	5461 Dec 25 19:54	8° る 20'57	1.44307 AU
	5461 Jan 15 21:09	0° ≈		evening rise	5462 Jan 04 09:56	23° る 21'10	
evening rise	5461 Jan 24 23:32	14° ≈ 08'06			5462 Jan 08 18:19	0° ≈ ≈	
S	5461 Feb 04 07:21	0°) €			5462 Jan 29 19:14	0°) €	
greatest brilliancy	5461 Feb 07 07:14	4°) (30'31	-0.7m	evening max el	5462 Feb 02 05:26	3° ¥ 51'43	20044118
				Č		8°) 42'14	20 44 16
evening max el	5461 Feb 19 04:20	20°) 17'53	19°41'32	asc. node	5462 Feb 09 21:56		
asc. node	5461 Feb 23 00:54	23° ∺ 28′26		retrograde	5462 Feb 10 11:43	8°) 44′00	
retrograde	5461 Feb 26 13:24	24°) 33′30		evening set	5462 Feb 14 11:46	7° ∺ 12'21	
evening set	5461 Mar 02 04:27	23° ∺ 16′27		inferior conj	5462 Feb 19 20:01	1° ∺ 02'13	2°50'04
inferior conj	5461 Mar 07 14:40	17°) 18'45	3°15'17	minimum elong	5462 Feb 19 17:42	1° ₩ 10'11	2°49'31
minimum elong	5461 Mar 07 12:51	17°) 24'44	3°14'59	min. Earth dist.	5462 Feb 20 08:53	0° ¥ 18′00	0.67706 AU
min. Earth dist.	5461 Mar 08 16:56	15° ¥ 51'40	0.66906 AU		5462 Feb 20 14:08	30°R ≈	
	5461 Mar 12 21:02	11°) (3145	0.00700 AC	manning rise	5462 Feb 24 23:26	24°≈48'16	
morning rise				morning rise			
direct	5461 Mar 18 22:17	8° ∺ 21'47		direct	5462 Mar 02 10:57	22° ≈ 22'23	
morning max el	5461 Mar 31 02:19	15° ∺ 37'55	25°30'47	morning max el	5462 Mar 13 11:02	28° ≈ 56'46	24°04'20
desc. node	5461 Mar 31 05:08	15°) 45′02			5462 Mar 14 11:28	0° ∀	
	5461 Apr 11 22:20	0 ° Υ		desc. node	5462 Mar 18 02:08	4°) €04'40	
	5461 May 01 07:30	$B_{\circ 0}$			5462 Apr 05 17:08	$0^{\circ}\mathbf{\Upsilon}$	
morning set	5461 May 06 06:57	8° 8 47'57		morning set	5462 Apr 18 02:52	20° Ƴ 14'24	
max. Earth dist.	5461 May 10 00:20	15° 8 41'59	1.36105 AU	max. Earth dist.	5462 Apr 21 20:34	26° Ƴ 48'11	1.38180 AU
max. Earth dist.	5401 May 10 00.20	15 041 57	1.50105710	max. Earth dist.	5462 Apr 23 15:09	0°8	1.50100710
	546134 15 21 20	270	0050122		3402 Apr 23 13.09	0.0	
superior conj	5461 May 15 21:28	27° 8 08'22					
minimum elong	5461 May 16 00:48	27° 8 25'00	0°58'48	superior conj	5462 Apr 29 00:46	10° 8 03'23	
	5461 May 17 07:41	Π $\circ 0$		minimum elong	5462 Apr 29 05:31	10° 8 26'04	1°27'27
asc. node	5461 May 22 00:10	9° Ⅱ 32'48		evening rise	5462 May 07 22:46	27° 8 27'55	
evening rise	5461 May 23 23:44	13° Ⅲ 35′25		asc. node	5462 May 08 21:12	29° 8 17'57	
_	5461 Jun 01 14:16	0∘ ©			5462 May 09 05:48	$\Pi^{\circ}0$	
evening max el	5461 Jun 10 13:53	12°©15'56	19°55'15	evening max el	5462 May 24 10:04	24° Ⅱ 09'46	18°59'08
retrograde	5461 Jun 20 19:28	17° © 16'35	17 55 15	retrograde	5462 Jun 02 00:43	28° I I23'00	10 27 00
-				-			
evening set	5461 Jun 22 17:16	17°506'53		evening set	5462 Jun 04 01:29	28° Ⅱ 09'51	
desc. node	5461 Jun 27 04:21	15° © 37'33		inferior conj	5462 Jun 12 06:12	23° Ⅱ 54'48	0°31'40
inferior conj	5461 Jul 01 16:24	13° © 06'07	-1°20'59	minimum elong	5462 Jun 12 07:27	23° Ⅱ 52'36	0°31'11
minimum elong	5461 Jul 01 12:38	13° © 11'50	1°19'35	desc. node	5462 Jun 14 01:23	22° Ⅲ 38′51	
min. Earth dist.	5461 Jul 03 16:08	11° © 53'39	0.55264 AU	min. Earth dist.	5462 Jun 15 07:43	21° Ⅱ 46'46	0.56622 AU
morning rise	5461 Jul 10 06:09	8°543'52		morning rise	5462 Jun 20 10:07	18° Ⅱ 56'19	
direct	5461 Jul 14 13:35	8°903'11		direct	5462 Jun 25 15:52	17° I I51'08	
			24016122				25052120
morning max el	5461 Jul 28 08:32	14°951'26	24°16'32	morning max el	5462 Jul 09 22:49	25° Ⅱ 14'15	25 55 50
_	5461 Aug 09 07:02	0°N			5462 Jul 14 09:16	0°95	
asc. node	5461 Aug 17 23:25	15° Ω 29'31			5462 Aug 02 06:45	$0^{\circ}\Omega$	
morning set	5461 Aug 22 07:25	24° Ω 23'29		asc. node	5462 Aug 04 20:27	5° Ω 11'33	
	5461 Aug 24 22:09	O° Mp		morning set	5462 Aug 06 18:39	9° Ω 13'09	

superior conj	5462 Aug 13 16:59	24° Ω 19'21	1°20'37		5463 Jul 25 00:11	$0^{\circ}\Omega$	
minimum elong	5462 Aug 13 14:44	24° Ω 06′55	1°20'19				
max. Earth dist.	5462 Aug 14 13:06	26° Ω 10′01	1.32213 AU	superior conj	5463 Jul 29 04:48	9° Ω 12'31	1°02'57
	5462 Aug 16 07:07	0° m		minimum elong	5463 Jul 29 02:34	9° Ω 00′13	1°02'32
evening rise	5462 Aug 20 16:53	9° ™ 24'37		max. Earth dist.	5463 Jul 29 00:01	8° Ω 46'07	1.31904 AU
	5462 Aug 31 11:09	0∘ ⊽		evening rise	5463 Aug 05 00:27	24° Ω 04'52	
desc. node	5462 Sep 10 00:38	15° ≏ 01'17			5463 Aug 07 20:51	0° m	
evening max el	5462 Sep 21 08:55	28° £ 29'51	27°15'05		5463 Aug 25 11:31	0∘ ⊽	
	5462 Sep 23 00:51	0°M₊		desc. node	5463 Aug 27 21:39	3° ჲ 09'54	
retrograde	5462 Oct 05 05:16	5°M43'11		evening max el	5463 Sep 03 10:18	10° ≏ 22'51	26°29'30
evening set	5462 Oct 12 08:15	3°M23'37		retrograde	5463 Sep 17 08:58	17° ≏ 31'08	
min. Earth dist.	5462 Oct 15 23:32	0°M36'40	0.61663 AU	evening set	5463 Sep 24 01:38	15° ≙ 39'43	
	5462 Oct 16 16:17	30° ₹ Ω		min. Earth dist.	5463 Sep 27 23:55	13° Ω 04'36	0.59604 AU
inferior conj	5462 Oct 19 00:30	27° £ 53′20		inferior conj	5463 Oct 01 05:40	10° £ 32'44	
minimum elong	5462 Oct 19 06:48	27° Ω 39'11	3°50'52	minimum elong	5463 Oct 01 11:30	10° £ 21'16	4°44'12
morning rise	5462 Oct 26 07:18	22° £ 55'16		morning rise	5463 Oct 08 23:30	5° £ 56'35	
direct	5462 Oct 28 14:44	22° Ω 32'41		direct	5463 Oct 11 07:33	5° Ω 37'04	
asc. node	5462 Oct 31 19:42	23° £ 17'53	17052157	asc. node	5463 Oct 18 16:44	9° £ 03'46	10017117
morning max el	5462 Nov 04 14:26	26° £ 04'04 0° M	17°53'57	morning max el	5463 Oct 19 01:05	9° £ 23'31 0° M	18°17'17
morning set	5462 Nov 07 23:02 5462 Nov 20 09:17	20°M49'29		morning set	5463 Nov 01 10:52 5463 Nov 03 22:01	4°M39'29	
morning set	5462 Nov 25 11:02	20 11 1. 4929 0° √ 1		morning set	3403 NOV 03 22.01	4 11639 29	
	3402 NOV 23 11.02	0 X -		superior conj	5463 Nov 13 04:47	22°M04'30	1°11'30
superior conj	5462 Dec 01 00:01	9° ∡ 745'28	0°41'55	minimum elong	5463 Nov 13 04.47 5463 Nov 13 08:35	22°M21'53	1°11'04
minimum elong	5462 Dec 01 00:01	10°×700'02	0°41'27	minimum clong	5463 Nov 17 15:02	0° × 7	1 11 04
desc. node	5462 Dec 06 23:52	19° х 53'48	0 41 27	max. Earth dist.	5463 Nov 20 18:44	5° ×1 27'37	1.40923 AU
max. Earth dist.	5462 Dec 08 09:46	22°×13'25	1.42830 AU	desc. node	5463 Nov 23 20:53	10°×739'35	1.40)23 AO
max. Dartii dist.	5462 Dec 13 05:26	0°る	1.12030110	evening rise	5463 Nov 25 11:30	13° х 18'48	
evening rise	5462 Dec 15 01:43	2° る 54'55		ovening rise	5463 Dec 06 02:52	0°ਰ ਹਾਰ	
* · · · · · · · · · · · · · · · · · · ·	5463 Jan 02 05:12	0° ≈			5463 Dec 28 14:56	0° ≈	
evening max el	5463 Jan 16 01:16	17° ≈ 27'51	21°57'45	evening max el	5463 Dec 29 16:54	1°≈06'45	23°17'05
retrograde	5463 Jan 25 08:55	23° ≈ 00'05		retrograde	5464 Jan 09 03:22	7°≈17'14	
asc. node	5463 Jan 27 18:57	22° ≈ 29'08		evening set	5464 Jan 14 02:08	5°≈14'42	
evening set	5463 Jan 29 19:32	21° ≈ 13′09		asc. node	5464 Jan 14 15:58	4° ≈ 43'59	
inferior conj	5463 Feb 04 03:42	14° ≈ 53'46	2°15'50		5464 Jan 18 15:17	30°₽₹	
minimum elong	5463 Feb 04 01:20	15° ≈ 01'58	2°15'06	inferior conj	5464 Jan 19 11:46	28° る 49'44	1°33'45
min. Earth dist.	5463 Feb 04 04:27	14° ≈ 51′10	0.68102 AU	minimum elong	5464 Jan 19 09:49	28° る 56'23	1°33'03
morning rise	5463 Feb 09 06:59	8° ≈ 42'32		min. Earth dist.	5464 Jan 19 01:12	29° る 26'02	0.68108 AU
direct	5463 Feb 14 04:00	6° ≈ 37'41		morning rise	5464 Jan 24 17:25	22° る 42'56	
morning max el	5463 Feb 23 21:14	12° ≈ 21'59	22°34'59	direct	5464 Jan 29 00:15	21° පි 00'58	
desc. node	5463 Mar 04 23:09	23° ≈ 11′00		morning max el	5464 Feb 06 12:40	25° る 56'35	21°11'25
	5463 Mar 09 22:36	0° ∀			5464 Feb 10 04:41	0° ≈	
morning set	5463 Mar 29 20:20	0° Y 23′52		desc. node	5464 Feb 19 20:10	12° ≈ 50′36	
	5463 Mar 29 14:30	0° Υ			5464 Mar 02 10:20	0° ∀	
max. Earth dist.	5463 Apr 03 16:21	8° Y 28'14	1.40391 AU	morning set	5464 Mar 08 09:44	9° ∺ 15'33	
				max. Earth dist.	5464 Mar 15 18:35	21°) (04'51	1.42442 AU
superior conj	5463 Apr 11 11:38	22°Υ09'32			5464 Mar 21 03:12	0° Y	
minimum elong	5463 Apr 11 16:35	22° Y 31'57	1°51'4/		546434 22 01 11	3° Ƴ 15'43	2007106
	5463 Apr 15 18:11	0° 8		superior conj	5464 Mar 23 01:11	3°Υ15'43 3°Υ26'39	
evening rise asc. node	5463 Apr 21 11:59	10° 8 48'06 18° 8 46'19		minimum elong	5464 Mar 23 03:44	3° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2*07*02
asc. node	5463 Apr 25 18:13 5463 May 02 08:29	0° Ⅱ		evening rise	5464 Apr 03 11:27 5464 Apr 07 02:46	0° 8	
evening max el	5463 May 07 15:19	6° Ⅱ 39'57	18°23'20	asc. node	5464 Apr 11 15:15	7° 8 52'15	
retrograde	5463 May 15 00:45	10° Ⅲ 20'17	18 23 20	evening max el	5464 Apr 20 02:04	19° 8 37'24	18°07'23
evening set	5463 May 17 08:29	9° П 59'32		retrograde	5464 Apr 26 18:16	23° 8 01'31	18 07 23
inferior conj	5463 May 24 17:24		1°58'13	evening set	5464 Apr 29 08:55	22° 8 30'32	
minimum elong	5463 May 24 20:46	5° Ⅱ 17'39	1°57'12	inferior conj	5464 May 06 00:56	17° 8 34'47	2°54'00
min. Earth dist.	5463 May 28 03:48	2° П 36'55	0.58582 AU	minimum elong	5464 May 06 03:56	17° 8 27'39	
desc. node	5463 May 31 22:24	0° П 03'54		min. Earth dist.	5464 May 09 06:37	14° 8 31'18	0.60785 AU
morning rise	5463 Jun 01 05:56	29° 8 53'45		morning rise	5464 May 12 20:46	11° 8 41'21	
<i>5</i> 3-	5463 Jun 01 01:16	30°R₩		desc. node	5464 May 17 19:25	9° 8 38'51	
direct	5463 Jun 07 08:21	28° 8 15'37		direct	5464 May 19 12:31	9° 8 30'19	
	5463 Jun 13 20:21	0°Ⅲ		morning max el	5464 Jun 02 19:06	17° 8 26'37	27°47'35
morning max el	5463 Jun 21 17:40	6° Ⅱ 00′12	27°07'33	-	5464 Jun 13 05:22	$\Pi^{\circ}0$	
	5463 Jul 09 13:09	0 \circ \odot			5464 Jul 01 04:54	0ಂತಾ	
morning set	5463 Jul 22 03:45	23° © 54'24		morning set	5464 Jul 05 08:59	8°522'00	
asc. node	5463 Jul 22 17:28	25°506'46		asc. node	5464 Jul 08 14:30	15° © 10'20	

max. Earth dist.	5464 Jul 11 10:28	21° © 18'55	1.32020 AU	asc. node	5465 Jun 25 11:32	5°©17'11	
superior conj	5464 Jul 12 15:48	23° © 59'54	0°41'10	superior conj	5465 Jun 27 00:11	8° © 34'52	0°15'50
minimum elong	5464 Jul 12 14:05	23°950'27	0°40'47	minimum elong	5465 Jun 26 23:26	8° 5 30'49	0°15'38
S	5464 Jul 15 09:13	$0^{\circ}\Omega$		behind sun begin	5465 Jun 26 22:25	8°525'18	
evening rise	5464 Jul 19 11:08	8° Ω 51'45		behind sun end	5465 Jun 27 00:27	8° 93 6'20	
-	5464 Jul 30 07:53	0° m		evening rise	5465 Jul 03 22:55	23°537'53	
desc. node	5464 Aug 13 18:41	20° Mp 04'05			5465 Jul 07 00:07	$0^{\circ}\Omega$	
evening max el	5464 Aug 15 04:01	21°M/26'56	25°13'54		5465 Jul 25 20:04	0° ™	
retrograde	5464 Aug 29 02:15	28° m 29'50		evening max el	5465 Jul 27 16:26	1°₩53'38	23°39'34
evening set	5464 Sep 03 19:39	27° m) 14'44		desc. node	5465 Jul 31 15:43	5° m 14'01	
min. Earth dist.	5464 Sep 08 15:36	24° Mp 33'41	0.57593 AU	retrograde	5465 Aug 10 07:38	8° m 44'19	
inferior conj	5464 Sep 11 15:51	22° Mp 31'21		evening set	5465 Aug 14 14:10	8° Mp 04'12	
minimum elong	5464 Sep 11 18:06	22° m 27'32	5°16'29	min. Earth dist.	5465 Aug 21 02:21	4° Mp 59'23	0.55923 AU
morning rise	5464 Sep 19 18:48	18° Mp 18'12		inferior conj	5465 Aug 23 05:44	3° Mp 42'26	
direct morning max el	5464 Sep 22 07:19 5464 Oct 01 03:30	17° Mp 59'20 22° Mp 10'39	19°01'45	minimum elong	5465 Aug 23 01:32 5465 Aug 30 20:34	3° Mp48'44 30° R Ω	3-09/30
asc. node	5464 Oct 04 13:46	26° Mp 01'00	19 01 43	morning rise	5465 Aug 31 15:23	30 ₹82 29° Ω 47'50	
asc. Houc	5464 Oct 07 09:36	ე∘ <u>ი</u>		direct	5465 Sep 03 11:18	29° Ω 27'53	
morning set	5464 Oct 17 20:30	0 — 18° ≏ 56'57		direct	5465 Sep 06 22:47	0°m	
	5464 Oct 23 10:43	0° M ,		morning max el	5465 Sep 13 18:46	4° m) 15'42	20°08'18
				asc. node	5465 Sep 21 10:48	13° m 53'52	
superior conj	5464 Oct 26 04:23	5°M18'37	1°30'47		5465 Sep 30 07:30	0∘ ⊽	
minimum elong	5464 Oct 26 07:09	5°M31'53	1°30'34	morning set	5465 Oct 02 01:30	3° ₽ 32'11	
max. Earth dist.	5464 Nov 02 00:20	18° M L00'47	1.38817 AU				
evening rise	5464 Nov 05 20:05	24°M44'23		superior conj	5465 Oct 09 17:44	19° ≏ 12'44	1°40'54
	5464 Nov 08 22:30	0° ∡ ¹		minimum elong	5465 Oct 09 18:58	19° ≏ 18'55	1°40'52
desc. node	5464 Nov 09 17:54	1° ∡ ¹20'35			5465 Oct 15 05:55	0°M	
	5464 Nov 28 20:13	0°る		max. Earth dist.	5465 Oct 15 06:15	0°M01'33	1.36756 AU
evening max el	5464 Dec 11 06:09	14° る 49'05	24°36'03	evening rise	5465 Oct 19 01:57	7°M07'57	
retrograde	5464 Dec 22 18:04	21°る31'34 19°る14'00		desc. node	5465 Oct 27 14:57	21° M .52'25 0° √	
evening set asc. node	5464 Dec 28 06:04 5464 Dec 31 13:01	19° ろ 14'00		evening max el	5465 Nov 01 17:54 5465 Nov 23 18:40	0° x ¹ 28° x ¹33'03	25017115
min. Earth dist.	5465 Jan 01 20:52	13° ろ 59'22	0.67744 AU	evening max er	5465 Nov 25 07:44	20 × 33 03	23 4743
inferior conj	5465 Jan 02 18:26	13° ろ 47'33	0°44'44	retrograde	5465 Dec 06 04:13	5°₹38'08	
minimum elong	5465 Jan 02 17:23	12°る51'05	0°44'19	evening set	5465 Dec 12 05:39	3° る 07'57	
morning rise	5465 Jan 08 04:49	6° る 47'07		C	5465 Dec 15 07:02	30°R. ✓	
direct	5465 Jan 11 22:29	5° ರ 27'07		min. Earth dist.	5465 Dec 16 13:12	28° ₹ '28'03	0.67019 AU
morning max el	5465 Jan 19 11:52	9° る 43'26	19°59'19	inferior conj	5465 Dec 17 21:55	26° ₹ 44'40	-0°10'20
	5465 Feb 03 18:26	0° ≈		minimum elong	5465 Dec 17 22:11	26° х 43′50	0°10'12
desc. node	5465 Feb 05 17:10	2° ≈ 54'18		transit middle	5465 Dec 17 22:11	26° х 43′50	0°10'12
morning set	5465 Feb 15 06:33	17° ≈ 27'20		transit begin	5465 Dec 17 19:59	26° ₹ 50'45	
	5465 Feb 23 07:33	0° ∀		transit end	5465 Dec 18 00:22	26° ₹ 36'54	
max. Earth dist.	5465 Feb 26 04:42	4° ★ 34'24	1.44062 AU	asc. node	5465 Dec 18 10:04	26° ₹ 06′23	
	5465 M 02 12 20	1201/12/41	2007100	morning rise	5465 Dec 23 15:09	20° 🖈 52'39	
superior conj minimum elong	5465 Mar 03 13:29 5465 Mar 03 10:23	13° 光 13'41 13° 光 01'02		direct morning max el	5465 Dec 26 21:15 5466 Jan 02 18:54	19° ₹ 51'55 23° ₹ 40'44	19°01'53
minimum ciong	5465 Mar 13 14:50	13 γ (01 02 0° γ	2 07 03	morning max er	5466 Jan 08 01:54	23 x 40 44 0°る	19 01 33
evening rise	5465 Mar 16 16:43	5° Υ 15'48		desc. node	5466 Jan 23 14:11	23° る 15'39	
asc. node	5465 Mar 29 12:17	26° Y 27'57		morning set	5466 Jan 25 11:18	26° ට 11'12	
	5465 Apr 01 02:13	0°8		5 8 2 3 3	5466 Jan 27 22:01	0° ≈	
evening max el	5465 Apr 03 14:56	2° 8 52'41	18°10'39	max. Earth dist.	5466 Feb 08 20:27	18° ≈ 39'42	1.45062 AU
retrograde	5465 Apr 10 00:51	6° 8 15'41					
evening set	5465 Apr 12 21:48	5° 8 33'02		superior conj	5466 Feb 11 02:36	22° ≈ 13′02	-1°47'48
inferior conj	5465 Apr 19 01:00	0° 8 17'42		minimum elong	5466 Feb 10 17:54	21° ≈ 38′39	1°47'05
minimum elong	5465 Apr 19 02:32		3°23'07		5466 Feb 16 00:19	0° ∀	
	5465 Apr 19 07:32	30° ₹ Υ		evening rise	5466 Feb 25 23:51	16° ∺ 07'36	
min. Earth dist.	5465 Apr 21 18:19	27° Y 22'14	0.62922 AU		5466 Mar 06 12:04	0°Υ	
morning rise	5465 Apr 25 05:59	24° Y 11'04		asc. node	5466 Mar 16 09:21	14° Υ 24'09	10022120
direct	5465 May 02 02:14	21° Y 35'02		evening max el	5466 Mar 18 03:05	16° Y 18'57	18~32′28
desc. node	5465 May 04 16:27	21° Y 55'19 29° Y 35'29	27°49'39	retrograde evening set	5466 Mar 24 15:57 5466 Mar 27 19:17	19° Y 53'51 18° Y 58'34	
morning max el	5465 May 16 02:07 5465 May 16 11:49	0° 8	47 37	inferior conj	5466 Mar 27 19:17 5466 Apr 02 13:28	18° γ 58'34 13° γ 25'27	3°31'50
	5465 Jun 07 04:29	0°II		minimum elong	5466 Apr 02 13:26	13° Y 25'34	3°31'58
morning set	5465 Jun 19 08:07	22° II 28'29		min. Earth dist.	5466 Apr 04 15:34	10° Υ 56'18	0.64784 AU
	5465 Jun 22 23:51	0°9		morning rise	5466 Apr 08 06:54	7° Υ 12'30	
max. Earth dist.	5465 Jun 24 16:21	3° © 34'30	1.32572 AU	direct	5466 Apr 14 23:59	4° Υ 23'55	
					•		

desc. node	5466 Apr 21 13:28	6° Ƴ 33'59		morning rise	5467 Mar 22 20:08	20°) (35′32	
	_	12° Υ 18'30	27917125	direct		17°) 47'38	
morning max el	5466 Apr 28 11:58		2/10/25		5467 Mar 29 04:23		
	5466 May 12 15:14	0° B		desc. node	5467 Apr 08 10:29	23°) €00'36	26014150
	5466 May 30 17:39	0°II		morning max el	5467 Apr 10 21:54	25° ¥ 22'15	26°14'59
morning set	5466 Jun 02 22:27	6° Ⅱ 06'11			5467 Apr 15 03:13	0° Υ	
max. Earth dist.	5466 Jun 07 13:44	15° Ⅲ 22'30	1.33582 AU		5467 May 06 03:14	0° 8	
				morning set	5467 May 17 00:18	19° 8 04'04	
superior conj	5466 Jun 11 03:59	22° Ⅱ 52'01		max. Earth dist.	5467 May 20 23:47	26° 8 39'37	1.35059 AU
minimum elong	5466 Jun 11 04:38	22° Ⅱ 55'24	0°12'12		5467 May 22 16:32	Π $^{\circ}0$	
behind sun begin	5466 Jun 11 01:01	22° ∏ 36′19					
behind sun end	5466 Jun 11 08:14	23° Ⅱ 14'30		superior conj	5467 May 26 00:47	6° ∏ 44'18	-0°42'07
asc. node	5466 Jun 12 08:36	25° Ⅱ 23'40		minimum elong	5467 May 26 03:07	6° Ⅱ 56'11	0°41'40
	5466 Jun 14 12:24	0 \circ \odot		asc. node	5467 May 30 05:40	15° Ⅱ 25'33	
evening rise	5466 Jun 18 09:59	8° 5 17'46		evening rise	5467 Jun 02 18:16	22° Ⅱ 44'57	
	5466 Jun 29 20:50	$0^{\circ}\Omega$			5467 Jun 06 08:13	0°€	
evening max el	5466 Jul 09 07:20	12° Ω 15'25	22°02'36	evening max el	5467 Jun 21 08:22	23° © 04'36	20°36'41
desc. node	5466 Jul 18 12:45	18° Ω 06'04		retrograde	5467 Jul 02 13:55	28° © 35'09	
retrograde	5466 Jul 22 01:30	18° Ω 35'13		evening set	5467 Jul 04 14:44	28°525'03	
evening set	5466 Jul 24 21:22	18° Ω 17'23		desc. node	5467 Jul 05 09:45	28° © 15'54	
min. Earth dist.	5466 Aug 02 12:18		0.54933 AU	inferior conj	5467 Jul 13 20:53	24°9528'06	-2°20'42
inferior conj	5466 Aug 03 03:34	14°Ω13'26		minimum elong	5467 Jul 13 14:00	24°937'59	2°27'18
3	· ·	$14^{\circ}\Omega 25'45$		min. Earth dist.		23° © 49'48	0.54865 AU
minimum elong	5466 Aug 02 18:49	• • • •	4-10-32		5467 Jul 14 23:32		0.54805 AU
morning rise	5466 Aug 11 17:52	10° £ 23′19		morning rise	5467 Jul 22 12:38	20°522'43	
direct	5466 Aug 14 23:47	9° Ω 59'57		direct	5467 Jul 26 09:19	19° © 50'35	
morning max el	5466 Aug 26 21:54	15° Ω 34'46	21°35'19	morning max el	5467 Aug 08 15:16	26°514'18	23°16'31
	5466 Sep 06 21:04	0° m)			5467 Aug 12 05:31	$0^{\circ}\Omega$	
asc. node	5466 Sep 08 07:50	2°Mp29'41		asc. node	5467 Aug 26 04:53	21° Ω 38′10	
morning set	5466 Sep 16 10:34	18°Mp 18′26			5467 Aug 30 09:24	0° m	
	5466 Sep 21 23:46	0∘ ⊽		morning set	5467 Aug 31 21:50	3° Mp 10′35	
superior conj	5466 Sep 23 16:43	3° ≏ 34'43	1°43'11	superior conj	5467 Sep 07 22:13	18° m 15'19	1°38'49
minimum elong	5466 Sep 23 16:29	ვ° ჲ 33'32	1°43'11	minimum elong	5467 Sep 07 20:51	18° m 08'01	1°38'44
max. Earth dist.	5466 Sep 27 17:51	11° ≙ 53'01	1.34964 AU	max. Earth dist.	5467 Sep 10 14:24	23° m 56'59	1.33562 AU
evening rise	5466 Oct 02 01:14	20° ≏ 19'46			5467 Sep 13 12:21	0∘ ত	
	5466 Oct 07 07:14	0° M		evening rise	5467 Sep 15 13:48	4° £ 09'13	
desc. node	5466 Oct 14 12:00	12° ™ 09'37			5467 Sep 30 01:01	0°M	
	5466 Oct 26 16:59	0° ∡ ¹		desc. node	5467 Oct 01 09:02	2°M05'35	
evening max el	5466 Nov 06 07:26	12° ∡ 13'13	26°44'46	evening max el	5467 Oct 19 19:57	25°M40'19	27°19'43
retrograde	5466 Nov 19 09:06	19° х 29'43		3	5467 Oct 25 02:54	0° ⊼	
evening set	5466 Nov 25 22:55	16° ₹ 51'35		retrograde	5467 Nov 02 07:56	2° ∡ 58'37	
min. Earth dist.	5466 Nov 29 23:54	12° ∡ 46′50	0.65940 AU	evening set	5467 Nov 09 07:25	0° √ 19'47	
inferior conj	5466 Dec 01 20:08	10° √ 36'41		evening sec	5467 Nov 09 17:33	30°RM	
minimum elong	5466 Dec 01 22:07	10 × 30 41 10° × 30'51	1°09'34	min. Earth dist.	5467 Nov 13 02:43		0.64522 AU
asc. node	5466 Dec 05 07:07	6° ₹ 51'41	1 09 34	inferior conj	5467 Nov 15 02:43	24°M18'42	
morning rise	5466 Dec 07 22:12	4° × 55'34		minimum elong	5467 Nov 15 10:47	24°M08'09	
=				_			2 12 13
direct	5466 Dec 10 18:45	4° ₹ 10'19	10020122	morning rise	5467 Nov 21 23:17	18°M51'30	
morning max el	5466 Dec 17 07:52	7° ₹ 42'41	18°20'33	asc. node	5467 Nov 22 04:07	18°M46'26	
	5467 Jan 01 20:48	0°る		direct	5467 Nov 24 12:40	18°M17'46	1705611
morning set	5467 Jan 05 18:32	6° る 17'07		morning max el	5467 Dec 01 00:11	21°M43'00	17°56'11
desc. node	5467 Jan 10 11:13	13° る 49'09		_	5467 Dec 07 10:01	0° ∡	
	5467 Jan 20 16:28	0° ≈		morning set	5467 Dec 18 07:00	17° ∡ ¹49'54	
					5467 Dec 25 14:05	0°る	
superior conj	5467 Jan 21 05:46	0°≈52'12	-1°10'22	desc. node	5467 Dec 28 08:16	4° ප 31'01	
minimum elong	5467 Jan 20 21:27	0° ≈ 19'32	1°09'21				
max. Earth dist.	5467 Jan 22 15:11	3° ≈ 03'17	1.45346 AU	superior conj	5467 Dec 31 19:14	10° る 06'29	-0°24'02
evening rise	5467 Feb 06 07:52	26° ≈ 04'03		minimum elong	5467 Dec 31 16:22	9° る 54'59	0°23'36
	5467 Feb 08 19:58	0° ∀		max. Earth dist.	5468 Jan 05 10:26	17° る 29'24	1.44893 AU
greatest brilliancy	5467 Feb 17 02:06	12°) 53′05	-0.8m		5468 Jan 13 10:31	0° ≈	
evening max el	5467 Mar 01 12:10	29° ¥ 50′30	19°11'45	evening rise	5468 Jan 16 22:35	5° ≈ 24'12	
Č	5467 Mar 01 15:55	0° Υ		greatest brilliancy	5468 Jan 31 14:37	27° ≈ 34'35	-0.6m
asc. node	5467 Mar 03 06:24	1° Υ 28'32		<i>S</i>	5468 Feb 02 06:36	0° ∀	
retrograde	5467 Mar 08 11:53	3° Υ 48'24		evening max el	5468 Feb 12 16:33	13°) 24'40	20°06'40
evening set	5467 Mar 11 22:18	2° Υ 39'39		asc. node	5468 Feb 18 03:25	17°) (27'21	
o vennig set	5467 Mar 14 20:41	2 1 39 39 30° Ŗ ₩		retrograde	5468 Feb 20 09:54	17° X 54'41	
inferior conj	5467 Mar 17 10:41	30 KX 26° X 50'32	3°24'58	evening set	5468 Feb 24 04:37	16° X 3441	
•				•			2905142
minimum elong	5467 Mar 17 09:24	26° X 54'40	3°24'50	inferior conj	5468 Feb 29 13:46		3°05'43
min. Earth dist.	5467 Mar 18 21:26	24° ∺ 58′59	0.66260 AU	minimum elong	5468 Feb 29 11:42	10° ∺ 35'30	3°05'20

min. Earth dist.	5468 Mar 01 10:13	9°₩19'30	0.67309 AU	minimum elong	5469 Feb 12 17:58	24° ≈ 24'11	2°35'55
morning rise	5468 Mar 05 18:33	4°) 13′52	0.07507110	min. Earth dist.	5469 Feb 13 03:53	23°≈49'52	0.67927 AU
direct	5468 Mar 11 14:18	1°) (37'41		morning rise	5469 Feb 17 23:25	18°≈03'12	***************************************
morning max el	5468 Mar 23 06:43	8°) €36'59	24°54'49	direct	5469 Feb 23 04:50	15° ≈ 45'58	
desc. node	5468 Mar 25 07:30	10°) €45'51		morning max el	5469 Mar 05 15:41	21° ≈ 58'47	23°26'11
	5468 Apr 09 01:49	0 ° Υ		desc. node	5469 Mar 12 04:32	29° ≈ 27'35	
	5468 Apr 27 17:23	8°			5469 Mar 12 14:50	0° ℋ	
morning set	5468 Apr 28 08:49	1° 8 08'24			5469 Apr 02 09:09	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	5468 May 01 23:38	7° 8 41'31	1.36961 AU	morning set	5469 Apr 09 18:12	12° Y 04'18	
				max. Earth dist.	5469 Apr 13 19:22	19° Ƴ 01'36	1.39126 AU
superior conj	5468 May 08 11:34	20° 8 03'27	-1°11'55		5469 Apr 19 22:01	0°8	
minimum elong	5468 May 08 15:35	20° 8 23'07	1°11'16				
	5468 May 13 11:29	Π $\circ 0$		superior conj	5469 Apr 21 08:32	2° 8 40'01	-1°39'07
asc. node	5468 May 16 02:42	5° Ⅱ 18'20		minimum elong	5469 Apr 21 13:36	3° 8 03'38	1°38'32
evening rise	5468 May 16 21:29	6° Ⅱ 52'40		evening rise	5469 Apr 30 16:50	20° 8 33'35	
	5468 May 29 23:48	0ංම		asc. node	5469 May 02 23:43	24° 8 57'40	
evening max el	5468 Jun 02 21:58	4° © 34'53	19°28'51		5469 May 05 16:01	$\Pi^{\circ 0}$	
retrograde	5468 Jun 12 09:48	9° © 13'29		evening max el	5469 May 16 22:26	16° ∏ 45'41	18°41'20
evening set	5468 Jun 14 08:09	9° © 02'47		retrograde	5469 May 24 23:11	20° Ⅱ 43'10	
desc. node	5468 Jun 21 06:45	6°902'11		evening set	5469 May 27 02:48	20° Ⅲ 27'08	
inferior conj	5468 Jun 23 00:03	4°957'04		inferior conj	5469 Jun 03 22:52	16° Ⅲ 03'30	1°12'09
minimum elong	5468 Jun 22 22:41	4°959'16	0°30'23	minimum elong	5469 Jun 04 01:25	15° ∏ 58'45	1°11'17
min. Earth dist.	5468 Jun 25 12:52	3°519'52	0.55752 AU	min. Earth dist.	5469 Jun 07 05:57	13° Ⅲ 36′22	0.57404 AU
morning rise	5468 Jul 01 10:35	0°920'10		desc. node	5469 Jun 08 03:46	12° ∏ 58′22	
t'	5468 Jul 02 12:45	30°RⅡ		morning rise	5469 Jun 11 20:42	10° I I50′21	
direct	5468 Jul 06 03:34	29° Ⅱ 30'16		direct	5469 Jun 17 11:39	9° Ⅱ 32'09	26020141
	5468 Jul 09 17:59	0°ତେ	24950142	morning max el	5469 Jul 01 20:34	17° Ⅱ 05'07	26°28'41
morning max el	5468 Jul 20 04:38	6° ॐ 34'24 0° Ω	24°59'42		5469 Jul 12 11:54	$0 {\circ} {\mathcal U}$	
1-	5468 Aug 06 04:52			1-	5469 Jul 29 11:39	0° Ω 58'55	
asc. node	5468 Aug 12 01:55 5468 Aug 15 09:32	11° Ω 10'08 18° Ω 02'38		asc. node morning set	5469 Jul 29 22:58 5469 Jul 30 20:05	0 ∂ €38 33 2° Ω 49'51	
morning set	5468 Aug 20 21:47	0° m)		morning set	3409 Jul 30 20.03	2 6649 31	
	3400 Aug 20 21.47	עוו ט		superior conj	5469 Aug 06 19:11	17° Ω 59'58	1°13'39
superior conj	5468 Aug 22 07:42	3° m 05'50	1°28'44	minimum elong	5469 Aug 06 16:53	17° Ω 47'16	1°13'17
minimum elong	5468 Aug 22 05:38	2° m 54'33	1°28'30	max. Earth dist.	5469 Aug 07 04:44	18° Ω 52'40	1.32034 AU
max. Earth dist.	5468 Aug 23 18:59	6° Mp 18'26	1.32585 AU	max. Dartii dist.	5469 Aug 12 07:07	0°m	1.52051110
evening rise	5468 Aug 29 11:57	18° m 24'54		evening rise	5469 Aug 13 16:48	2° m 58'29	
<i>8</i> 11	5468 Sep 04 09:21	0∘ <u>⊽</u>		8	5469 Aug 28 05:26	0∘ ⊽	
desc. node	5468 Sep 17 06:03	21° ≙ 30'27		desc. node	5469 Sep 04 03:03	10° £ 11'42	
	5468 Sep 23 11:01	0° M		evening max el	5469 Sep 13 11:16	20° £ 59'45	26°59'37
evening max el	5468 Oct 01 06:08	8°M40'14	27°26'06	retrograde	5469 Sep 27 08:24	28° ≏ 10'34	
retrograde	5468 Oct 14 23:55	15°M55'09		evening set	5469 Oct 04 08:43	26° ≏ 01'20	
evening set	5468 Oct 22 04:02	13°M25'15		min. Earth dist.	5469 Oct 08 01:31	23° ≙ 21'43	0.60802 AU
min. Earth dist.	5468 Oct 25 19:33	10°M25'00	0.62785 AU	inferior conj	5469 Oct 11 05:35	20° £ 41′05	-4°16'46
inferior conj	5468 Oct 28 15:01	7°M42'56	-3°17'39	minimum elong	5469 Oct 11 11:59	20° ≏ 27'30	4°15'09
minimum elong	5468 Oct 28 20:42	7°M29'16	3°15'44	morning rise	5469 Oct 18 17:16	15° ≏ 52'16	
morning rise	5468 Nov 04 15:03	2°M33'11		direct	5469 Oct 21 00:38	15° ≏ 31'14	
direct	5468 Nov 06 23:55	2°M07'20		asc. node	5469 Oct 25 22:11	17° ≙ 10'37	
asc. node	5468 Nov 08 01:08	2°M12'33		morning max el	5469 Oct 28 06:41	19° ≏ 07'28	18°01'27
morning max el	5468 Nov 13 16:50	5°M33'50	17°49'27		5469 Nov 05 05:14	0°M	
morning set	5468 Nov 29 19:01	0° ≯ 30'15		morning set	5469 Nov 13 00:14	13°M58'57	
	5468 Nov 29 12:11	0° ∡ ¹			5469 Nov 21 18:19	0°⊀	
		200 = 2	000011		#460.XX	00 = 1 = 1	0055::-
superior conj	5468 Dec 11 08:38	20° ∡ 31'32	0°20'12	superior conj	5469 Nov 23 00:08	2° ≯ 12′25	0°55'47
minimum elong	5468 Dec 11 10:35	20° ∡ 39'43	0°19'56	minimum elong	5469 Nov 23 03:57	2°×29'18	0°55'16
desc. node	5468 Dec 14 05:18	25° х 17′03		max. Earth dist.	5469 Nov 30 15:20	15° ₹ 18'18	1.42055 AU
more Eth- U.	5468 Dec 17 02:31	0°る 1° 3 40'10	1 42740 411	desc. node	5469 Dec 01 02:18	16° ₹ 03'53	
max. Earth dist.	5468 Dec 18 03:18	1°る40'10	1.43749 AU	evening rise	5469 Dec 06 07:30	24° ₹ 33'09	
evening rise	5468 Dec 26 09:20	14°る41'38 0°≈			5469 Dec 09 18:23	0°る	
avaning may al	5469 Jan 05 11:45	0°≈ 26°≈59'56	2101420	avanina may al	5469 Dec 30 10:50		22°31'09
evening max el	5469 Jan 25 15:25 5469 Jan 29 00:19	26°≈3936 0° H	∠1 14 ∠7	evening max el retrograde	5470 Jan 08 09:07 5470 Jan 18 04:09	10°≈36'23 16°≈25'41	44 JI UJ
retrograde	5469 Feb 03 07:52	0 K 2°₩08'36		asc. node	5470 Jan 21 21:25	16 ≈23 41 15°≈13'34	
asc. node	5469 Feb 04 00:24	2° H 06'04		evening set	5470 Jan 22 19:49	13 ≈13 34 14°≈31'52	
evening set	5469 Feb 07 12:21	0° H 30'19		inferior conj	5470 Jan 28 04:24	8°≈09'25	1°58'53
	5469 Feb 08 02:42	30°R≈		minimum elong	5470 Jan 28 02:10	8°≈17'10	1°58'09
inferior conj	5469 Feb 12 20:21	24°≈15'54	2°36'33	min. Earth dist.	5470 Jan 28 00:10	8°≈24'07	0.68144 AU
						/	

marning rise	5470 Eak 02 00:24	2° ≈ 00'01		min Forth dist	5471 Ion 11 20:51	22° る 58'57	0.67988 AU
morning rise	5470 Feb 02 08:24			min. Earth dist.	5471 Jan 11 20:51		
direct	5470 Feb 06 23:12	0°≈05'07	21050125	inferior conj	5471 Jan 12 12:07	22° ろ 07'00	1°13'48
morning max el	5470 Feb 16 03:51	5°≈28'10	21°58'27	minimum elong	5471 Jan 12 10:30	22° る 12'30	1°13'11
desc. node	5470 Feb 27 01:33	18° ≈ 49′21		morning rise	5471 Jan 17 19:29	16° ⋜ 02'30	
	5470 Mar 06 21:44	0°) (direct	5471 Jan 21 20:26	14° る 30'13	
morning set	5470 Mar 20 23:27	21°) 39'47		morning max el	5471 Jan 29 22:28	19° る 08'21	20°39'08
	5470 Mar 26 01:50	$0^{\circ}\mathbf{\Upsilon}$			5471 Feb 07 19:51	0° ≈	
max. Earth dist.	5470 Mar 26 17:41	1° Y 06'04	1.41296 AU	desc. node	5471 Feb 13 22:35	8° ≈ 40′24	
				morning set	5471 Feb 28 03:24	0° ∺ 07'16	
superior conj	5470 Apr 03 10:55	14° Ƴ 21'56	-1°59'58		5471 Feb 28 01:32	0° ∀	
minimum elong	5470 Apr 03 15:16	14° Ƴ 41'07	1°59'42	max. Earth dist.	5471 Mar 08 22:42	14° ∺ 04'17	1.43191 AU
	5470 Apr 12 01:43	8°					
evening rise	5470 Apr 14 00:46	3° 8 38'02		superior conj	5471 Mar 15 14:01	24°) 59′31	-2°09'16
asc. node	5470 Apr 19 20:44	14° 8 17'38		minimum elong	5471 Mar 15 14:30	25° ∺ 01'36	2°09'16
evening max el	5470 Apr 30 06:25	29° 8 28'38	18°14'06	C	5471 Mar 18 13:10	0° Y	
Č	5470 Apr 30 19:41	0° I I		evening rise	5471 Mar 27 17:04	15° Ƴ 56'46	
retrograde	5470 May 07 07:19	3° Ⅱ 00'29		<i>5</i>	5471 Apr 04 18:45	0°8	
evening set	5470 May 09 17:54	2° I 35'47		asc. node	5471 Apr 06 17:46	3° 8 11'55	
evening set	5470 May 14 05:55	30°R ∀		evening max el	5471 Apr 13 18:29	12° 8 34'57	18°06'29
inferior conj	5470 May 16 19:11	27° 8 51'53	2°25'27	retrograde	5471 Apr 19 16:29 5471 Apr 20 06:51	15° 8 56'50	10 002)
	•	27° 8 44'21	2°24'33	•		15° 8 21'09	
minimum elong	5470 May 16 22:37			evening set	5471 Apr 23 00:10		2000116
min. Earth dist.	5470 May 20 04:50	24° 8 54'16	0.59507 AU	inferior conj	5471 Apr 29 10:17	10° 8 17'11	3°09'16
morning rise	5470 May 24 00:30	22° 8 09'44		minimum elong	5471 Apr 29 12:43	10° 8 11'03	3°08'51
desc. node	5470 May 26 00:48	21° 8 10'02		min. Earth dist.	5471 May 02 11:28	7° 8 14'07	0.61720 AU
direct	5470 May 30 09:26	20° 8 17'10		morning rise	5471 May 05 23:27	4° 8 17'02	
morning max el	5470 Jun 13 18:30	28° 8 08'24	27°29'06	direct	5471 May 12 18:15	1° 8 53'37	
	5470 Jun 15 13:58	Π $^{\circ}0$		desc. node	5471 May 12 21:50	1° 8 53'41	
	5470 Jul 06 05:13	0°€		morning max el	5471 May 26 22:31	9° 8 53'22	27°52'53
morning set	5470 Jul 15 03:48	17° 5 26'19			5471 Jun 11 13:11	Π $^{\circ}0$	
asc. node	5470 Jul 16 20:00	20° © 58'24			5471 Jun 28 09:55	0 \circ \odot	
	5470 Jul 20 23:47	$0^{\circ}\Omega$		morning set	5471 Jun 29 06:45	1° 5 45'59	
max. Earth dist.	5470 Jul 21 15:53	1° Ω 28'40	1.31901 AU	asc. node	5471 Jul 03 17:03	11° 5 04'00	
				max. Earth dist.	5471 Jul 05 00:40	13° © 54'41	1.32199 AU
superior conj	5470 Jul 22 06:53	2° Ω 51'30	0°54'10				
minimum elong	5470 Jul 22 04:49	2° Ω 40'05	0°53'46	superior conj	5471 Jul 06 17:03	17° © 34'38	0°30'48
evening rise	5470 Jul 29 01:57	17° Ω 42'10		minimum elong	5471 Jul 06 15:41	17° © 27'11	0°30'30
* · · · · · · · · · · · · · · · · · · ·	5470 Aug 04 03:07	0° m/			5471 Jul 12 09:29	0°N	
desc. node	5470 Aug 22 00:04	27° m 51'47		evening rise	5471 Jul 13 13:21	2° Ω 29'32	
desc. Hode	5470 Aug 23 21:42	2/ ily31 4/		evening rise	5471 Jul 28 08:56	0° m)	
evening max el	5470 Aug 26 09:08	o — 2° ⊆ 30'48	26°00'24	evening max el	5471 Aug 08 00:03	13° My 16'39	24°35'10
•	•	2 = 30 48 9° £ 37'57	20 00 24	desc. node	Č	=	24 33 10
retrograde	5470 Sep 09 08:16				5471 Aug 08 21:06	14° Mp 05'50	
evening set	5470 Sep 15 16:42	8° Ω 01'06	0.50722 444	retrograde	5471 Aug 21 20:59	20° m 16'06	
min. Earth dist.	5470 Sep 19 21:49	5° £ 25'51	0.58722 AU	evening set	5471 Aug 27 00:12	19° Mp 17'06	0.50015.177
inferior conj	5470 Sep 23 02:59	3° ₽ 04'02		min. Earth dist.	5471 Sep 01 11:16	16° m) 27'32	0.56815 AU
minimum elong	5470 Sep 23 07:44	2° £ 55'14	5°01′28	inferior conj	5471 Sep 04 04:30	14° m 42'59	
	5470 Sep 27 17:24	30°R, Mp		minimum elong	5471 Sep 04 04:11	14° m 43'29	5°19'36
morning rise	5470 Oct 01 01:03	28° m 38'09		morning rise	5471 Sep 12 10:32	10° m 38'31	
direct	5470 Oct 03 10:25	28° Mp 19'17		direct	5471 Sep 15 01:41	10° Mp 19'29	
	5470 Oct 08 18:36	0。 ಹ		morning max el	5471 Sep 24 12:21	14° Mp 45'31	19°27'23
morning max el	5470 Oct 11 14:20	2° £ 14'59	18°33'38	asc. node	5471 Sep 29 16:18	20° m 51'50	
asc. node	5470 Oct 12 19:14	3° ₽ 29'00			5471 Oct 05 07:42	0∘ ⊽	
morning set	5470 Oct 27 17:35	28° ჲ 01'55		morning set	5471 Oct 11 19:11	12° ≏ 27'53	
	5470 Oct 28 17:59	0° M.					
				superior conj	5471 Oct 19 19:39	28° ≏ 29'58	1°36'06
superior conj	5470 Nov 05 13:38	14°M57'18	1°20'53	minimum elong	5471 Oct 19 21:47	28° ≏ 40′25	1°35'59
minimum elong	5470 Nov 05 17:07	15°M13'31	1°20'32	C	5471 Oct 20 14:05	0° M	
max. Earth dist.	5470 Nov 12 22:06	28°M13'16	1.40027 AU	max. Earth dist.	5471 Oct 26 02:53	10° M 29'09	1.37917 AU
	5470 Nov 13 22:45	0° %		evening rise	5471 Oct 29 20:57	17° M .14'49	
evening rise	5470 Nov 17 02:52	5° × ⁷ 23'10		desc. node	5471 Nov 04 20:22	27°M26'06	
desc. node	5470 Nov 17 02:32 5470 Nov 17 23:20	6° ₹ 48'23		dese. Hode	5471 Nov 04 20:22 5471 Nov 06 10:02	27 11 G 20 00	
acse. Houc	5470 Nov 17 23.20 5470 Dec 02 21:56	0 x 4 8 2 3 0°る			5471 Nov 06 10.02 5471 Nov 27 07:55	0 x. 0°る	
evening max el			22051110	avani 1			25007150
evening may et		24° る 16'29	23°51'10	evening max el	5471 Dec 04 12:14	8° පි 00'16	23 U/39
evening max er	5470 Dec 21 23:22	00		matma c J -	5/71 D 1/ 10 11	1/10=7521/7	
	5470 Dec 29 15:30	0°≈		retrograde	5471 Dec 16 10:11	14°る53'47	
retrograde	5470 Dec 29 15:30 5471 Jan 01 21:17	0° ≈ 42′29		evening set	5471 Dec 22 03:47	12° る 30'46	0.67175
retrograde	5470 Dec 29 15:30 5471 Jan 01 21:17 5471 Jan 04 21:30	0°≈42'29 30°Rる		evening set min. Earth dist.	5471 Dec 22 03:47 5471 Dec 26 15:29	12° පි 30'46 7° පි 30'32	0.67475 AU
retrograde evening set	5470 Dec 29 15:30 5471 Jan 01 21:17 5471 Jan 04 21:30 5471 Jan 07 01:30	0°≈42'29 30°Rる 28°る33'24		evening set min. Earth dist. asc. node	5471 Dec 22 03:47 5471 Dec 26 15:29 5471 Dec 26 15:32	12° පි30'46 7° පි30'32 7° පි30'23	
retrograde	5470 Dec 29 15:30 5471 Jan 01 21:17 5471 Jan 04 21:30	0°≈42'29 30°Rる		evening set min. Earth dist.	5471 Dec 22 03:47 5471 Dec 26 15:29	12° පි 30'46 7° පි 30'32	

minimum elong	5471 Dec 27 17:07	6° ප 06'48	0°21'52	evening set	5472 Dec 05 00:53	26° х 20′25	
morning rise	5472 Jan 02 06:41	0° ろ 07'35	0 21 32	min. Earth dist.	5472 Dec 09 05:41	21° 🖈 55'25	0.66610 AU
morning rise	5472 Jan 02 11:17	30°R. ✓		inferior conj	5472 Dec 10 19:10	20°×700'19	
direct	5472 Jan 05 19:14	28° ₹ 56'04		minimum elong	5472 Dec 10 20:07	19° х 57'24	
	5472 Jan 09 07:40	0°る		asc. node	5472 Dec 12 12:35	17° х 56'08	
morning max el	5472 Jan 13 00:59	2° る 59'24	19°32'56	morning rise	5472 Dec 16 15:55	14° ∡ 12′28	
greatest brilliancy	5472 Jan 26 01:53	20° る 12'56	-0.7m	direct	5472 Dec 19 17:48	13° ∡ 18'37	
desc. node	5472 Jan 31 19:36	28° ප 52'14		morning max el	5472 Dec 26 10:45	16° ∡ ¹58'50	18°42'14
	5472 Feb 01 13:22	0° ≈		•	5473 Jan 05 07:29	0°రె	
morning set	5472 Feb 07 00:18	8° ≈ 22'51		morning set	5473 Jan 16 15:00	17° ට 38'13	
max. Earth dist.	5472 Feb 19 11:12	27° ≈ 49'49	1.44571 AU	desc. node	5473 Jan 17 16:38	19° る 19'07	
	5472 Feb 20 20:01	0° ∀			5473 Jan 24 11:42	0° ≈	
				max. Earth dist.	5473 Feb 01 05:02	12° ≈ 06′26	1.45279 AU
superior conj	5472 Feb 23 15:39	4° ∺ 29'59	-2°01'25				
minimum elong	5472 Feb 23 09:46	4°) €06'25	2°01'07	superior conj	5473 Feb 01 22:06	13° ≈ 13′23	-1°33'43
evening rise	5472 Mar 08 13:13	27°) €20'57		minimum elong	5473 Feb 01 12:38	12° ≈ 36′14	1°32'46
	5472 Mar 10 03:03	0 ° \mathbf{Y}			5473 Feb 12 13:08	0° ∀	
asc. node	5472 Mar 23 14:48	21° Y 32'08		evening rise	5473 Feb 17 10:14	7° ∺ 47'39	
evening max el	5472 Mar 27 07:26	25° Y 56′05	18°17'48	greatest brilliancy	5473 Feb 24 22:54	19° 米 51'43	-0.9m
retrograde	5472 Apr 02 17:25	29° Y 22'16			5473 Mar 03 11:47	0° Υ	
evening set	5472 Apr 05 17:08	28° Ƴ 34'16		asc. node	5473 Mar 10 11:50	9° Ƴ 07'35	
inferior conj	5472 Apr 11 16:05		3°29'08	evening max el	5473 Mar 10 18:31	9° Y 24'45	18°47'11
minimum elong	5472 Apr 11 16:55	23° Y ′08'58	3°29'04	retrograde	5473 Mar 17 10:56	13° Y 07'57	
min. Earth dist.	5472 Apr 14 03:08	20° Y 25′16	0.63759 AU	evening set	5473 Mar 20 17:16	12° Y 06′50	
morning rise	5472 Apr 17 15:45	17° ℃ 01'41		inferior conj	5473 Mar 26 08:36	6° Y 26'31	3°30'41
direct	5472 Apr 24 11:40	14°Υ18'32		minimum elong	5473 Mar 26 07:59	6° Y 28′26	3°30'39
desc. node	5472 Apr 28 18:51	15° Y 14′29	27020127	min. Earth dist.	5473 Mar 28 04:00	4°Υ12'45	0.65460 AU
morning max el	5472 May 08 06:51	22° Y 17′27	27°39'27	morning rise	5473 Mar 31 22:14	0°Υ12'33	
	5472 May 15 01:21	8°0		T' .	5473 Apr 01 04:07	30° ₹	
	5472 Jun 03 18:05	0°П		direct	5473 Apr 07 12:07	27° ∺ 23'02 0° Ƴ	
morning set	5472 Jun 12 02:34 5472 Jun 17 03:22	15° Ⅱ 41'51 25° Ⅱ 59'57	1.32946 AU	desc. node	5473 Apr 14 15:40	0° Υ 42'45	
max. Earth dist.	5472 Jun 19 00:41	23 π 3937	1.32940 AU	morning max el	5473 Apr 15 15:53 5473 Apr 20 16:56	5° Υ 10'11	26°53'22
	34/2 Juli 19 00.41	0 33		morning max er	5473 May 09 15:41	0° 8	20 33 22
superior coni	5/172 Jun 10 23://0	200013142	0°04'13	morning set	5473 May 26 12:04	20° ≻ 03'/1	
superior conj	5472 Jun 19 23:49 5472 Jun 19 23:36	2°503'42 2°502'36	0°04'13 0°04'09	morning set	5473 May 26 12:04 5473 May 26 23:48	29° ႘ 03'41 0°π	
minimum elong	5472 Jun 19 23:36	2° © 02'36	0°04'13 0°04'09	-	5473 May 26 23:48	$\Pi^{\circ}0$	1 34156 AU
minimum elong behind sun begin	5472 Jun 19 23:36 5472 Jun 19 18:25	2°©02'36 1°©34'46		morning set max. Earth dist.	•		1.34156 AU
minimum elong behind sun begin behind sun end	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48	2°©02'36 1°©34'46 2°©30'28		max. Earth dist.	5473 May 26 23:48 5473 May 30 20:20	0°Ⅱ 7°Ⅱ35'21	
minimum elong behind sun begin behind sun end asc. node	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06	2°502'36 1°534'46 2°530'28 1°511'37		max. Earth dist.	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56	0°П 7°П35'21 16°П11'00	-0°24'48
minimum elong behind sun begin behind sun end	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48	2°©02'36 1°©34'46 2°©30'28		max. Earth dist.	5473 May 26 23:48 5473 May 30 20:20	0°Ⅱ 7°Ⅱ35'21	-0°24'48
minimum elong behind sun begin behind sun end asc. node evening rise	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07	2°902'36 1°934'46 2°930'28 1°911'37 17°914'37	0°04'09	max. Earth dist. superior conj minimum elong	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16	0°П 7°П35'21 16°П11'00 16°П17'57	-0°24'48
minimum elong behind sun begin behind sun end asc. node	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19	2°902'36 1°934'46 2°930'28 1°911'37 17°914'37 0°N	0°04'09	max. Earth dist. superior conj minimum elong	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07	0°П 7°П35'21 16°П11'00 16°П17'57 21°П16'28	-0°24'48
minimum elong behind sun begin behind sun end asc. node evening rise evening max el	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46	2°502'36 1°534'46 2°530'28 1°511'37 17°514'37 0°N 23°N38'35	0°04'09	max. Earth dist. superior conj minimum elong asc. node	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14	0°П 7°П35'21 16°П11'00 16°П17'57 21°П16'28 0°©	-0°24'48
minimum elong behind sun begin behind sun end asc. node evening rise evening max el	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08	2°902'36 1°934'46 2°930'28 1°911'37 17°914'37 0°A 23°A38'35 28°A22'20	0°04'09	max. Earth dist. superior conj minimum elong asc. node	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15	0°П 7°П35'21 16°П11'00 16°П17'57 21°П16'28 0°© 1°©50'01	-0°24'48 0°24'33
minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35	2°902'36 1°934'46 2°930'28 1°911'37 17°914'37 0°N 23°N38'35 28°N22'20 0°M	0°04'09	max. Earth dist. superior conj minimum elong asc. node evening rise	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21	0° II 7° II 35'21 16° II 11'00 16° II 17'57 21° II 16'28 0° S 1° S 50'01 0° Ω	-0°24'48 0°24'33
minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$A 23°\$A38'35 28°\$A22'20 0°\$	0°04'09	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 01 07:12	0°Π 7°Π35'21 16°Π11'00 16°Π17'57 21°Π16'28 0°Θ 1°Θ50'01 0°Ω 4°Ω08'31	-0°24'48 0°24'33
minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$1 23°\$138'35 28°\$122'20 0°\$10'00'00'00'00'00'00'00'00'00'00'00'00'0	0°04'09 22°57'45 0.55407 AU	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 01 07:12 5473 Jul 12 15:09	0°II 7°II35'21 16°II11'00 16°II17'57 21°II16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40	-0°24'48 0°24'33 21°24'06
minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$1 23°\$138'35 28°\$122'20 0°\$1 0°\$17'54 30°\$\$1 29°\$149'19	0°04'09 22°57'45 0.55407 AU	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 01 07:12 5473 Jul 12 15:09 5473 Jul 13 10:57	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57	-0°24'48 0°24'33 21°24'06
minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist.	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$1 23°\$138'35 28°\$122'20 0°\$\$10'85 30°\$\$1 29°\$149'19 26°\$130'16 25°\$136'21 25°\$146'07	0°04'09 22°57'45 0.55407 AU -4°52'25	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 24 20:07	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36
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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$13'55 28°\$\Omega\$22'20 0°\$\Omega\$17'54 30°\$\Omega\$29'\$\Omega\$49'19 26°\$\Omega\$30'16 25°\$\Omega\$36'21 25°\$\Omega\$46'07 21°\$\Omega\$45'38	0°04'09 22°57'45 0.55407 AU -4°52'25	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 24 20:07 5473 Jul 25 07:18	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55	-0°24'48 0°24'33 21°24'06
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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Aug 25 22:38	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$17'54 30°\$\Omega\$22'20 0°\$\Omega\$17'54 30°\$\Omega\$21'25°\$\Omega\$46'07 21°\$\Omega\$45'38 21°\$\Omega\$24'25	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 01 07:12 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 24 20:07 5473 Jul 25 07:18 5473 Aug 02 20:27	0°H 7°H35'21 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36
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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$22'20 0°\$\Omega\$17'54 30°\$\Omega\$22'20 25°\$\Omega\$49'19 26°\$\Omega\$30'16 25°\$\Omega\$46'07 21°\$\Omega\$45'38 21°\$\Omega\$24'25 26°\$\Omega\$31'20	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 01 07:12 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02	0°H 7°H35'21 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 12 21:22 5472 Aug 12 21:22 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 02:21 5472 Sep 09 04:55	2°502'36 1°534'46 2°530'28 1°511'37 17°514'37 0°N 23°N38'35 28°N22'20 0°M 0°M17'54 30°RN 29°N49'19 26°N30'16 25°N36'21 25°N46'07 21°N24'25 26°N31'20 0°M	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 01 07:12 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Aug 18 20:45	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$22'20 0°\$\Omega\$17'54 30°\$\Omega\$22'20 29°\$\Omega\$49'19 26°\$\Omega\$30'16 25°\$\Omega\$46'07 21°\$\Omega\$45'38 21°\$\Omega\$24'25 26°\$\Omega\$31'20 0°\$\Omega\$9\$\$	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 18 20:45 5473 Sep 02 10:23	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 25 02:14	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\tau 23°\$\ta38'35 28°\$\ta22'20 0°\$\tay 0°\$\tay 17'54 30°\$\tau 29°\$\ta49'19 26°\$\ta30'16 25°\$\ta36'21 25°\$\ta46'07 21°\$\ta45'38 21°\$\ta24'25 26°\$\ta31'20 0°\$\tay 9°\$\tay04'58 27°\$\tay09'11	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 24 20:07 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 03 13:07	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$22'20 0°\$\Omega\$17'54 30°\$\Omega\$22'20 29°\$\Omega\$49'19 26°\$\Omega\$30'16 25°\$\Omega\$46'07 21°\$\Omega\$45'38 21°\$\Omega\$24'25 26°\$\Omega\$31'20 0°\$\Omega\$9\$\$	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 18 20:45 5473 Sep 02 10:23	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 15 13:21 5472 Sep 26 11:18	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$0'8\Omega\$22'20 0°\$\Omega\$0'8\Omega\$29°\$\Omega\$49'19 26°\$\Omega\$36'21 25°\$\Omega\$46'07 21°\$\Omega\$45'38 21°\$\Omega\$24'25 26°\$\Omega\$31'20 0°\$\Omega\$9\$\$\Omega\$9\$\$\Omega\$909'11 0°\$\Omega\$	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 09 12:28	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 15 13:21 5472 Sep 26 11:18	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\Omega\$22'20 0°\$\Omega\$0'8,\Omega\$22'20 0°\$\Omega\$0'8,\Omega\$21'26'\Omega\$30'16 25°\$\Omega\$46'07 21°\$\Omega\$45'38 21°\$\Omega\$24'25 26°\$\Omega\$31'20 0°\$\Omega\$9\$\Omega\$9'\$\Omega\$09'11 0°\$\Omega\$12'\Omega\$24'58 27°\$\Omega\$09'11	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 09 12:28	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 15 11:37 5472 Aug 16:01 5472 Aug 17:02 5472 Aug 18:01 5472 Aug 18:01 5472 Aug 19:02 5472 Aug 20:03 5472 Aug 20:03 5472 Sep 09:04:55 5472 Sep 15:03:11 5472 Sep 25:02:14 5472 Sep 26:11:18	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\mathcal{Q}\$23°\mathcal{Q}38'35 28°\mathcal{Q}22'20 0°\$\mathcal{Q}\$0'\$\mathcal{Q}\$15'54 30°\$\mathcal{Q}\$16 25°\mathcal{Q}\$40'19 26°\mathcal{Q}\$30'16 25°\mathcal{Q}\$46'07 21°\mathcal{Q}\$45'38 21°\mathcal{Q}\$24'25 26°\mathcal{Q}\$31'20 0°\$\mathcal{Q}\$9"\$\mathcal{Q}\$09'11 0°\$\mathcal{Q}\$ 12°\$\mathcal{Q}\$37'29 12°\$\mathcal{Q}\$40'29	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Sep 02 10:23 5473 Sep 03 13:07 5473 Sep 09 12:28	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M08'17	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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 morning set	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 10:46 5472 Aug 15 12:22 5472 Aug 16:01 5472 Aug 22 22:34 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21 5472 Sep 26 11:18 5472 Oct 02 13:34 5472 Oct 02 14:09 5472 Oct 07 11:04	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\mathbb{\alpha}\$ 23°\$\mathbb{\alpha}38'35 28°\$\mathbb{\alpha}22'20 0°\$\mathbb{\mathbb	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 24 20:07 5473 Jul 25 07:18 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 09 12:28 5473 Sep 16 15:39 5473 Sep 16 14:54 5473 Sep 18 00:17	0°H 7°H35'21 16°H11'00 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M04'18 0°£	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 04:01 5472 Aug 12 22:34 5472 Aug 22 22:34 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21 5472 Sep 26 11:18 5472 Oct 02 13:34 5472 Oct 02 14:09 5472 Oct 07 11:04 5472 Oct 11 10:51	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\mathbb{\alpha}\$ 23°\$\mathbb{\alpha}38'35 28°\$\mathbb{\alpha}22'20 0°\$\mathbb{\mathbb	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde 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.	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 09 12:28 5473 Sep 16 15:39 5473 Sep 16 14:54 5473 Sep 20 02:33	0°H 7°H35'21 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M04'18 0°£ 4°£20'50	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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 morning set	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 04:01 5472 Aug 12 22:34 5472 Aug 22 22:34 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21 5472 Sep 26 11:18 5472 Oct 02 13:34 5472 Oct 02 14:09 5472 Oct 07 11:04 5472 Oct 11 10:51 5472 Oct 11 10:51	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\bar{Q}\$23°\$\bar{Q}38'35 28°\$\bar{Q}22'20 0°\$\bar{Q}\$0'\$\bar{Q}\$17'54 30°\$\bar{Q}\$29'\$\bar{Q}49'19 26°\$\bar{Q}30'16 25°\$\bar{Q}36'21 25°\$\bar{Q}46'07 21°\$\bar{Q}45'38 21°\$\bar{Q}24'25 26°\$\bar{Q}31'20 0°\$\bar{Q}\$0'\$\bar{Q}\$0'\$\bar{Q}\$1 0°\$\bar{Q}\$10'\$\bar{Q}\$24'58 27°\$\bar{Q}90'11 0°\$\bar{Q}\$12°\$\bar{Q}40'29 22°\$\bar{Q}24'56 0°\$\bar{Q}0'49 0°\$\bar{Q}\$1.	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 09 12:28 5473 Sep 16 15:39 5473 Sep 16 14:54 5473 Sep 20 02:33 5473 Sep 24 16:14	0°H 7°H35'21 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M04'18 0°£ 4°£20'50 13°£29'33	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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 morning set	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 04:01 5472 Aug 12 22:34 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21 5472 Sep 26 11:18 5472 Oct 02 13:34 5472 Oct 02 14:09 5472 Oct 01 10:51 5472 Oct 11 10:51 5472 Oct 11 10:40 5472 Oct 21 17:24	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\tau23°\$\tau38'35 28°\$\tau22'20 0°\$\tau\$ 0°\$\tau\$17'54 30°\$\tau\$ 29°\$\tau49'19 26°\$\tau30'16 25°\$\tau36'21 25°\$\tau46'07 21°\$\tau45'38 21°\$\tau24'25 26°\$\tau31'20 0°\$\tau\$ 9°\$\tau90'11 0°\$\tau\$ 12°\$\tau37'29 12°\$\tau40'29 22°\$\tau24'56 0°\$\tau00'49 0°\$\tau\$ 17°\$\tau52'36	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde 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	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 03 13:07 5473 Sep 16 15:39 5473 Sep 16 14:54 5473 Sep 20 02:33 5473 Sep 24 16:14 5473 Oct 03 17:19	0°H 7°H35'21 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M08'17 27°M08'18 0°A 4°A20'50 13°A229'33 0°M	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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 morning set	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 04:01 5472 Aug 12 02:34 5472 Aug 14 04:01 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21 5472 Sep 26 11:18 5472 Oct 02 13:34 5472 Oct 01 10:51 5472 Oct 11 10:51 5472 Oct 11 10:40 5472 Oct 29 14:06	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\A23°\$\A38'35 28°\$\A22'20 0°\$\M\$ 0°\$\M\$17'54 30°\$\A\$ 29°\$\A49'19 26°\$\A30'16 25°\$\A36'21 25°\$\A46'07 21°\$\A45'38 21°\$\A24'25 26°\$\A31'20 0°\$\M\$ 9°\$\M\$04'58 27°\$\M\$09'11 0°\$\D\$ 12°\$\D\$37'29 12°\$\D\$40'29 22°\$\D\$24'56 0°\$\M\$00'49 0°\$\M\$	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56 1°42'44 1°42'44 1.35961 AU	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde 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.	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 03 13:07 5473 Sep 16 15:39 5473 Sep 16 15:39 5473 Sep 16 14:54 5473 Sep 18 00:17 5473 Sep 20 02:33 5473 Sep 24 16:14 5473 Oct 03 17:19 5473 Oct 08 14:27	0°H 7°H35'21 16°H17'57 21°H16'28 0°S 1°S50'01 0°A 4°A08'31 10°A07'20 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M08'17 27°M08'17 27°M08'17 27°M08'18 0°S 4°S20'50 13°S29'33 0°M 8°M01'41	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10
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 morning set	5472 Jun 19 23:36 5472 Jun 19 18:25 5472 Jun 20 04:48 5472 Jun 19 14:06 5472 Jun 27 01:07 5472 Jul 03 08:19 5472 Jul 19 12:46 5472 Jul 25 18:08 5472 Jul 25 18:08 5472 Jul 30 01:35 5472 Aug 01 20:49 5472 Aug 04 17:12 5472 Aug 05 11:37 5472 Aug 12 21:22 5472 Aug 14 04:01 5472 Aug 12 22:34 5472 Aug 22 22:34 5472 Aug 25 22:38 5472 Sep 05 22:21 5472 Sep 09 04:55 5472 Sep 15 13:21 5472 Sep 26 11:18 5472 Oct 02 13:34 5472 Oct 02 14:09 5472 Oct 01 10:51 5472 Oct 11 10:51 5472 Oct 11 10:40 5472 Oct 21 17:24	2°\$02'36 1°\$34'46 2°\$30'28 1°\$11'37 17°\$14'37 0°\$\A23°\$\A38'35 28°\$\A22'20 0°\$\M\$ 0°\$\M\$17'54 30°\$\A\$ 29°\$\A49'19 26°\$\A30'16 25°\$\A36'21 25°\$\A46'07 21°\$\A45'38 21°\$\A24'25 26°\$\A31'20 0°\$\M\$ 9°\$\M\$04'58 27°\$\M\$09'11 0°\$\D\$ 12°\$\D\$37'29 12°\$\D\$40'29 22°\$\D\$24'56 0°\$\M\$00'49 0°\$\M\$	0°04'09 22°57'45 0.55407 AU -4°52'25 4°51'19 20°42'56	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el desc. node retrograde 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	5473 May 26 23:48 5473 May 30 20:20 5473 Jun 04 00:56 5473 Jun 04 02:16 5473 Jun 06 11:07 5473 Jun 10 14:14 5473 Jun 11 11:15 5473 Jun 27 14:21 5473 Jul 12 15:09 5473 Jul 13 10:57 5473 Jul 15 20:40 5473 Jul 25 04:52 5473 Jul 25 07:18 5473 Jul 25 07:18 5473 Aug 02 20:27 5473 Aug 06 08:02 5473 Aug 18 20:45 5473 Sep 02 10:23 5473 Sep 03 13:07 5473 Sep 16 15:39 5473 Sep 16 14:54 5473 Sep 20 02:33 5473 Sep 24 16:14 5473 Oct 03 17:19	0°H 7°H35'21 16°H17'57 21°H16'28 0°© 1°©50'01 0°A 4°A08'31 10°A08'57 9°A55'40 5°A56'19 6°A08'35 5°A52'55 2°A02'39 1°A36'27 7°A31'34 27°A55'42 0°M 11°M58'41 27°M08'17 27°M08'17 27°M08'18 0°A 4°A20'50 13°A229'33 0°M	-0°24'48 0°24'33 21°24'06 -3°33'12 3°30'36 0.54791 AU 22°17'10 1°42'05 1°42'03 1.34323 AU

retrograde	5473 Nov 11 20:09	12° ∡ ³37'33		retrograde	5474 Oct 25 16:19	25°M53'55	
evening set	5473 Nov 18 14:44	9° x ⁷ 57'54		evening set	5474 Oct 23 10:19 5474 Nov 01 18:37	23°M17'10	
min. Earth dist.	5473 Nov 18 14.44 5473 Nov 22 13:07		0.65385 AU	min. Earth dist.	5474 Nov 01 18:37 5474 Nov 05 11:47	20°ML00'33	0.63818 AU
inferior conj	5473 Nov 24 14:27	3° ∡ 748′28		inferior conj	5474 Nov 08 01:01	17°M23'26	
minimum elong	5473 Nov 24 17:14	3° ∡ 740'32	1°35′52	minimum elong	5474 Nov 08 05:44	17°ML11'17	2°39'21
	5473 Nov 28 06:37	30°RM.		morning rise	5474 Nov 14 18:22	12°M03'32	
asc. node	5473 Nov 29 09:36	29°M06'15		asc. node	5474 Nov 16 06:38	11°M38'12	
morning rise	5473 Nov 30 20:48	28°M13'08		direct	5474 Nov 17 05:23	11°M33'42	
direct	5473 Dec 03 14:04	27°M33'12		morning max el	5474 Nov 23 18:27	14°M58'31	17°51'07
	5473 Dec 08 23:15	0°⊀			5474 Dec 04 07:36	0°⊀	
morning max el	5473 Dec 10 01:32	1° ≯ 01'04	18°08'06	morning set	5474 Dec 10 10:20	10° ∡ 26′14	
morning set	5473 Dec 28 11:04	28° х 22'40		desc. node	5474 Dec 22 10:42	0° る 40'37	
	5473 Dec 29 10:50	0° ರ			5474 Dec 22 00:47	0°ප	
desc. node	5474 Jan 04 13:40	9° る 56'42					
				superior conj	5474 Dec 23 02:00	1°る43'12	-0°04'30
superior conj	5474 Jan 12 03:13	22°る00'52	-0°51'04	minimum elong	5474 Dec 23 01:30	1° る 41'08	0°04'25
minimum elong	5474 Jan 11 20:57	21° පි 36'07	0°50'13	behind sun begin	5474 Dec 22 15:59	1° る 02'16	
max. Earth dist.	5474 Jan 15 00:41	26° ප 34'26	1.45241 AU	behind sun end	5474 Dec 23 11:00	2° る 19'55	
	5474 Jan 17 05:07	0° ≈		max. Earth dist.	5474 Dec 28 18:53	10°る54'42	1.44477 AU
evening rise	5474 Jan 28 09:45	17°≈25'40		evening rise	5475 Jan 07 20:46	26° ප 39'17	
	5474 Feb 05 12:54	0° ∀			5475 Jan 10 01:09	0° ≈	
greatest brilliancy	5474 Feb 10 02:45	6° ¥ 57'53	-0.7m		5475 Jan 30 15:12	0° ₩	
evening max el	5474 Feb 22 01:40	22°) 57'12	19°33'19	evening max el	5475 Feb 05 03:37	6° ¥ 31'09	20°34'09
asc. node	5474 Feb 25 08:52	25°) 45′50		asc. node	5475 Feb 12 05:53	11°) 12′00	
retrograde	5474 Mar 01 08:09	27°) 08'05		retrograde	5475 Feb 13 06:28	11°) 17'36	
evening set	5474 Mar 04 21:57	25°) 53'14		evening set	5475 Feb 17 05:03	9°) (48'15	
inferior conj	5474 Mar 10 08:38	19°) 57'36	3°18'09	inferior conj	5475 Feb 22 13:28	3°)(39'53	2°54'28
minimum elong	5474 Mar 10 06:57	20° \ 03'09	3°17'55	minimum elong	5475 Feb 22 11:12	3° \ 47'39	
min. Earth dist.	5474 Mar 10 00:57	18° \(\) 24'03	0.66751 AU	min. Earth dist.	5475 Feb 23 04:17	2° H 49'10	
	5474 Mar 15 15:41	13°\(\frac{7}{42'25}\)	0.00731 AO	iiiii. Eartii tiist.	5475 Feb 25 07:51	2 /(4910 30°R ≈	0.07018 AC
morning rise direct	5474 Mar 21 18:47	13 X 42 23 10° X 58'40		mamina rias	5475 Feb 27 17:09	30 k≈ 27°≈25'37	
		10 X 38 40 17° X 45'56		morning rise			
desc. node	5474 Apr 02 12:53		25042144	direct	5475 Mar 05 06:50	24°≈56'46	
morning max el	5474 Apr 03 02:38	18° ¥ 20′18	25°42'44		5475 Mar 14 18:44	0° ∀	24017121
	5474 Apr 12 22:31	0° Υ		morning max el	5475 Mar 16 11:18	1°) (38′09	24°17'31
	5474 May 02 16:21	0° 8		desc. node	5475 Mar 20 09:55	5°) 57'12	
morning set	5474 May 09 07:11	11° 8 40'26			5475 Apr 06 23:09	0° Υ	
max. Earth dist.	5474 May 13 01:56	18° 8 44'05	1.35820 AU	morning set	5475 Apr 21 06:34	23° Y 17′09	
				max. Earth dist.	5475 Apr 24 22:38	29° Y 46′51	1.37857 AU
superior conj	5474 May 18 17:49	29° 8 49'40			5475 Apr 25 01:34	9° 8	
minimum elong	5474 May 18 20:53	0° Ⅱ 05'07	0°54'19				
	5474 May 18 19:52	Π $\circ 0$		superior conj	5475 May 01 23:11	12° 8 51'08	
asc. node	5474 May 24 08:08	11° Ⅱ 14'44		minimum elong	5475 May 02 03:46	13° 8 13'11	1°23'19
evening rise	5474 May 26 17:39	16° Ⅱ 09'35		evening rise	5475 May 10 17:51	0° Ⅱ 06'01	
	5474 Jun 02 20:21	0ංම			5475 May 10 16:38	Π $^{\circ}0$	
evening max el	5474 Jun 13 13:23	15°©13'35	20°05'23	asc. node	5475 May 11 05:10	1° Ⅱ 01'52	
retrograde	5474 Jun 24 01:21	20°9522'05		evening max el	5475 May 27 07:58	27° Ⅲ 01′27	19°06'13
evening set	5474 Jun 25 23:23	20°512'31			5475 May 31 05:11	0 \circ \odot	
desc. node	5474 Jun 29 12:08	19° © 09'42		retrograde	5475 Jun 05 03:48	1° © 20'42	
inferior conj	5474 Jul 05 00:42	16° © 13'10	-1°39'07	evening set	5475 Jun 07 03:47	1° © 08'21	
minimum elong	5474 Jul 04 20:05	16°920'06	1°37'26		5475 Jun 10 10:21	30°RⅡ	
min. Earth dist.	5474 Jul 06 19:19	15° © 09'29	0.55130 AU	inferior conj	5475 Jun 15 11:30	26° Ⅱ 56'05	0°15'58
morning rise	5474 Jul 13 15:12	11° © 55'37		minimum elong	5475 Jun 15 12:09	26° Ⅱ 54'58	0°15'43
direct	5474 Jul 17 19:35	11°©17'31		transit middle	5475 Jun 15 12:09	26° Ⅱ 54'58	0°15'43
morning max el	5474 Jul 31 11:45	17°959'58	24°01'04	transit begin	5475 Jun 15 11:24	26° Ⅱ 56'15	
morning man vi	5474 Aug 10 08:14	0°Ω	2.010.	transit end	5475 Jun 15 12:54	26° ∏ 53'41	
asc. node	5474 Aug 20 07:25	17° Ω 14'44		desc. node	5475 Jun 16 09:08	26° I 18'56	
morning set	5474 Aug 25 00:05	26° Ω 51'13		min. Earth dist.	5475 Jun 18 10:21	24° I 55'33	0.56370 AU
morning set	5474 Aug 26 11:29	0° m)		morning rise	5475 Jun 23 17:19	22° I I03'11	0.505 / 0 AO
	57/7 Mug 20 11.29	עוויי		direct	5475 Jun 28 19:50	21° I I02'11	
superior conj	5474 Aug 31 23:07	11° m) 53'56	1°35'12	morning max el	5475 Jul 13 01:33	21 H 02 11 28° H 21'00	250/01/15
	•		1°35′12 1°35′02	morning max er	5475 Jul 13 01:33 5475 Jul 14 17:02	28° П 21'00	23 40 13
minimum elong	5474 Aug 31 21:24	11° Mp 44'40					
max. Earth dist.	5474 Sep 03 02:36	16° Mp 31'18	1.33093 AU	aaa J	5475 Aug 03 17:10	0° Ω	
evening rise	5474 Sep 08 09:15	27° m/30'52		asc. node	5475 Aug 07 04:27	6° £ 54'30	
	5474 Sep 09 15:03	0° 亞		morning set	5475 Aug 09 11:31	11° Ω 41'55	
desc. node	5474 Sep 25 11:28	27° £ 45'31			#### A	260 2 :=::	1005:
	5474 Sep 26 23:21	0°M	2702 (107	superior conj	5475 Aug 16 09:43	26° Ω 47'11	1°22'55
evening max el	5474 Oct 12 01:21	18°M35'57	2/~26'0'/	minimum elong	5475 Aug 16 07:30	26° Ω 34'59	1~22'38

max. Earth dist.	5475 Aug 17 09:38 5475 Aug 17 20:51	28° € 58'32 0° Mp	1.32293 AU	max. Earth dist.	5476 Jul 30 20:24 5476 Aug 06 17:32	11° € 34'33 26° € 34'14	1.31921 AU
evening rise	5475 Aug 23 10:35 5475 Sep 01 19:16	11° ™ 55'33 0° ⊆			5476 Aug 08 08:54 5476 Aug 25 09:49	0° ट 0°™	
desc. node	5475 Sep 01 19:10 5475 Sep 12 08:27	0 = 16° £ 53'57		desc. node	5476 Aug 29 05:28	0 == 5° £ 11'41	
desc. Hode	5475 Sep 23 00:42	0°M		evening max el	5476 Sep 05 12:18	13° £ 21'14	26°38'23
evening max el	5475 Sep 24 09:46	1°M20'47	27°19'02	retrograde	5476 Sep 19 10:32	20° £ 29'51	20 30 23
retrograde	5475 Oct 08 05:37	8°M34'31	_, _, _,	evening set	5476 Sep 26 05:38	18° £ 33'32	
evening set	5475 Oct 15 09:07	6°M12'01		min. Earth dist.	5476 Sep 30 02:06	15° ≙ 57'49	0.59918 AU
min. Earth dist.	5475 Oct 19 00:18	3°M21'51	0.61962 AU	inferior conj	5476 Oct 03 07:41	13° ≏ 23'11	-4°38'22
inferior conj	5475 Oct 21 23:56	0°M38'24	-3°43'44	minimum elong	5476 Oct 03 13:46	13° ≏ 11'00	4°37'08
minimum elong	5475 Oct 22 06:06	0°M24'16	3°41'51	morning rise	5476 Oct 10 23:58	8° ≏ 43'35	
	5475 Oct 22 16:48	30° ₹ Ω		direct	5476 Oct 13 07:46	8° ≏ 23'43	
morning rise	5475 Oct 29 04:59	25° ≏ 37'07		asc. node	5476 Oct 20 00:44	11° ≏ 18'33	
direct	5475 Oct 31 12:40	25° Ω 13'47		morning max el	5476 Oct 20 21:58	12° ≙ 07'10	18°12'29
asc. node	5475 Nov 03 03:41	25° Ω 44'42			5476 Nov 01 20:23	0°M	
morning max el	5475 Nov 07 10:22	28° Ω 43'44	17°52'07	morning set	5476 Nov 05 17:28	7° M 14'54	
	5475 Nov 08 15:17	0°M			545(3) 15 04 22	2.40 M 5.1122	1007141
morning set	5475 Nov 23 06:29	23°M29'44 0°⊀		superior conj	5476 Nov 15 04:22	24°M51'23	1°07'41 1°07'13
	5475 Nov 26 21:14	0.8.		minimum elong	5476 Nov 15 08:14 5476 Nov 18 01:24	25°M08'53 0° <i>₹</i>	1-0/13
superior conj	5475 Dec 04 02:50	12° ∡ '41'38	0°36'31	max. Earth dist.	5476 Nov 22 19:29	8° ₹ 13'27	1.41231 AU
minimum elong	5475 Dec 04 05:56	12° 🖈 54'55	0°36'05	desc. node	5476 Nov 25 04:45	12° × 13'42	1.41231 AU
desc. node	5475 Dec 09 07:44	21° × ⁷ 27'35	0 30 03	evening rise	5476 Nov 27 17:24	16°×722'51	
max. Earth dist.	5475 Dec 11 09:28	24° ₹ 51'51	1.43088 AU	8	5476 Dec 06 09:20	5°0	
	5475 Dec 14 13:47	∂ °8			5476 Dec 28 05:12	0° ≈	
evening rise	5475 Dec 18 10:47	6° る 07'38		evening max el	5476 Dec 31 16:27	3° ≈ 45′27	23°05'08
	5476 Jan 03 08:47	0° ≈		retrograde	5477 Jan 10 22:50	9° ≈ 50′23	
evening max el	5476 Jan 19 00:15	20° ≈ 06′58	21°46'19	evening set	5477 Jan 15 19:46	7° ≈ 50'01	
retrograde	5476 Jan 28 03:52	25° ≈ 32'56		asc. node	5477 Jan 15 23:57	7° ≈ 41'06	
asc. node	5476 Jan 30 02:54	25° ≈ 12'31		inferior conj	5477 Jan 21 05:05	1° ≈ 25'38	1°40'38
evening set	5476 Feb 01 12:51	23° ≈ 48′18		minimum elong	5477 Jan 21 03:03	1° ≈ 32'38	1°39'54
inferior conj	5476 Feb 06 20:56	17°≈30'11	2°21'33	min. Earth dist.	5477 Jan 20 20:08	1°≈56'30	0.68131 AU
minimum elong	5476 Feb 06 18:33	17°≈38'27	2°20'50		5477 Jan 22 06:07	30°Rる	
min. Earth dist. morning rise	5476 Feb 06 23:26 5476 Feb 12 00:04	17°≈21'30 11°≈18'32	0.68073 AU	morning rise direct	5477 Jan 26 10:15 5477 Jan 30 19:08	25°る18'13 23°る32'55	
direct	5476 Feb 12 00:04 5476 Feb 16 23:19	9°≈10'19		morning max el	5477 Feb 08 11:32	23 3 32 33 28° 3 35'12	21°23'16
morning max el	5476 Feb 26 20:59	15°≈01'50	22°48'04	morning max ci	5477 Feb 09 20:03	0°≈	21 23 10
desc. node	5476 Mar 06 06:58	24°≈57'22	22 4004	desc. node	5477 Feb 21 04:01	14°≈32'43	
	5476 Mar 10 01:00	0°) €			5477 Mar 03 16:48	0°) €	
	5476 Mar 29 22:52	$0^{\circ}\mathbf{Y}$		morning set	5477 Mar 11 21:38	12°) 41′16	
morning set	5476 Apr 01 04:16	3° Y 38'40		max. Earth dist.	5477 Mar 18 19:39	23° ∺ 50′29	1.42157 AU
max. Earth dist.	5476 Apr 05 18:11	11° Y 20'47	1.40068 AU		5477 Mar 22 12:25	0° Υ	
superior conj	5476 Apr 13 12:50	25° Y 05'32		superior conj	5477 Mar 26 05:55	6° Y 21′39	
minimum elong	5476 Apr 13 17:54	25° Y 28'36	1°48'34	minimum elong	5477 Mar 26 09:04	6° Ƴ 35'13	2°05'33
	5476 Apr 16 04:51	0°8		evening rise	5477 Apr 06 10:39	26° Y 18′10	
evening rise	5476 Apr 23 08:47	13° 8 31'44			5477 Apr 08 11:31	0° 8	
asc. node	5476 Apr 27 02:11	20° 8 33'09		asc. node	5477 Apr 13 23:14	9° 8 43'11	10000120
avanina may al	5476 May 02 10:42	0°П 9°П26'53	10027122	evening max el retrograde	5477 Apr 22 22:19 5477 Apr 29 16:25	22° 8 21'09 25° 8 46'50	18°08'30
evening max el retrograde	5476 May 09 12:08 5476 May 17 01:04	9° Д 26'33	18-27-22	evening set	5477 Apr 29 16:25 5477 May 02 06:02	25° 8 17'31	
evening set	5476 May 19 07:46	13° Д 11'01' 12° Д 51'33		inferior conj	5477 May 02 00:02 5477 May 09 00:19	20° 8 24'41	2°47'22
inferior conj	5476 May 26 19:30	8° П 19'32	1°47'08	minimum elong	5477 May 09 03:28	20° 8 17'19	2°46'39
minimum elong	5476 May 26 22:44	8° I 13'01	1°46'07	min. Earth dist.	5477 May 12 07:15	17° 8 22'01	0.60454 AU
min. Earth dist.	5476 May 30 05:31	5° Ⅲ 36'30	0.58265 AU	morning rise	5477 May 15 22:34	14° 8 33'48	
desc. node	5476 Jun 02 06:10	3°Ⅲ32'14		desc. node	5477 May 20 03:12	12° 8 44'03	
morning rise	5476 Jun 03 10:31	2° ∏ 53′07		direct	5477 May 22 12:46	12° 8 27'29	
direct	5476 Jun 09 10:14	1° Ⅱ 20′14		morning max el	5477 Jun 05 20:09	20° 8 22'32	27°44'02
morning max el	5476 Jun 23 19:29	9° Ⅱ 01'53	26°58'37		5477 Jun 14 02:34	$\Pi^{\circ}0$	
	5476 Jul 09 18:09	0 \circ \odot			5477 Jul 02 15:34	0ංම	
morning set	5476 Jul 23 21:04	26°524'42		morning set	5477 Jul 08 03:01	10°954'36	
asc. node	5476 Jul 24 01:29	26° © 47'58		asc. node	5477 Jul 10 22:32	16°950'25	1 21055 : *-
	5476 Jul 25 13:32	0 $^{\circ}$ Ω		max. Earth dist.	5477 Jul 14 07:14	24°908'35	1.31977 AU
gunorior co	5476 Int. 20 21:20	110 0 40127	1005154	gunariar aa	5/77 Jul 15 00:47	2606220155	0044142
superior conj minimum elong	5476 Jul 30 21:30 5476 Jul 30 19:14	11° Ω 40'37 11° Ω 28'07		superior conj minimum elong	5477 Jul 15 08:46 5477 Jul 15 06:56	26°©28'55 26°©18'52	0°44'42 0°44'20
minimum ciong	57/0 Jul 50 17.14	11 06400/	1 00 01	mmmum ciong	57//Jul 15 00.50	20 -20 32	U 77 4U

evening rise	5477 Jul 16 23:03 5477 Jul 22 03:54 5477 Jul 31 14:51	0° N 11° N 20'12 0° m		superior conj minimum elong evening rise	5478 Jun 29 17:40 5478 Jun 29 16:44 5478 Jul 06 15:39	11°505'58 11°500'57 26°506'34	0°19'52 0°19'39
desc. node	5477 Aug 16 02:28	22° mp 18'15		C	5478 Jul 08 11:58	$0^{\circ}\Omega$	
evening max el	5477 Aug 18 07:00	24° Mp 31'20	25°26'38		5478 Jul 26 06:10	0° m	
	5477 Aug 25 19:21	0∘ ত		evening max el	5478 Jul 30 19:46	5°№01'36	23°54'09
retrograde	5477 Sep 01 05:28	1° ≏ 35′26		desc. node	5478 Aug 02 23:29	7° m 45'51	
evening set	5477 Sep 07 03:19	0° ≏ 14'31		retrograde	5478 Aug 13 12:57	11° Mp 55'23	
	5477 Sep 07 15:56	30°R Mp		evening set	5478 Aug 18 00:57	11° Mp 10'43	
min. Earth dist.	5477 Sep 11 18:45	27° m/35'40	0.57878 AU	min. Earth dist.	5478 Aug 24 06:05	8° m 10'13	0.56130 AU
inferior conj	5477 Sep 14 20:48	25° m 27'43		inferior conj	5478 Aug 26 13:36	6° Mp 45'42	
minimum elong morning rise	5477 Sep 14 23:49 5477 Sep 22 22:35	25° Mp 22'28 21° Mp 11'27	5 13 42	minimum elong morning rise	5478 Aug 26 10:25 5478 Sep 03 22:23	6° Mp 50'34 2° Mp 48'59	5-14-10
direct	5477 Sep 25 10:12	20° m/ 52'38		direct	5478 Sep 06 16:56	2° m) 29'23	
morning max el	5477 Oct 04 01:49	24° m 59'22	18°53'48	morning max el	5478 Sep 16 18:56	7° My 11'17	19°57'05
asc. node	5477 Oct 06 21:48	28° m 05'38		asc. node	5478 Sep 23 18:50	15° m 50'57	-, -, -,
	5477 Oct 08 08:51	0∘ ⊽			5478 Oct 01 18:35	0∘ ⊽	
morning set	5477 Oct 20 14:44	21° ≏ 28'38		morning set	5478 Oct 04 18:56	6° ჲ 01'38	
	5477 Oct 24 22:40	0°M					
				superior conj	5478 Oct 12 13:07	21° ≏ 47'18	1°39'54
superior conj	5477 Oct 29 01:31	7° M 58'14	1°28'28	minimum elong	5478 Oct 12 14:35	21° ≏ 54'38	1°39'50
minimum elong	5477 Oct 29 04:30	8°M12'23	1°28'13		5478 Oct 16 17:42	0° M	
max. Earth dist.	5477 Nov 05 01:21	20°M52'13	1.39130 AU	max. Earth dist.	5478 Oct 18 06:39	2°M55'40	1.37045 AU
evening rise	5477 Nov 08 22:34	27°M38'58		evening rise	5478 Oct 22 01:30	9° ™ 54'38	
	5477 Nov 10 07:47	0°⊀ 2° ₹ 5 5 2 2 0		desc. node	5478 Oct 29 22:47	23°M28'56	
desc. node	5477 Nov 12 01:47	2° ₹ 55'30			5478 Nov 03 00:28	0° ∡	
avanina may al	5477 Nov 29 22:06	0°궁 17° 궁 26'58	24°24'34	avanina may al	5478 Nov 25 13:59 5478 Nov 26 18:23	0°궁 1°궁11'04	25°37'50
evening max el retrograde	5477 Dec 14 05:50 5477 Dec 25 14:14	17 ⁻ る 2638 24° る 05'37	24 24 34	evening max el retrograde	5478 Nov 26 18:23 5478 Dec 09 01:11	8°る13'48	25-37-50
evening set	5477 Dec 23 14:14 5477 Dec 31 00:14	24 80337 21° 8 50'04		evening set	5478 Dec 15 00:35	5°る45'20	
asc. node	5478 Jan 02 21:01	18° る 49'15		min. Earth dist.	5478 Dec 19 00:35	1°る00'07	0.67148 AU
min. Earth dist.	5478 Jan 04 16:08	16° ප 30'21	0.67820 AU	mm. Lartii dist.	5478 Dec 20 04:01	30°R.∡7	0.07140710
inferior conj	5478 Jan 05 12:06	15° る 23'27	0°52'37	inferior conj	5478 Dec 20 16:11	29° ₹ 21'07	-0°01'36
minimum elong	5478 Jan 05 10:53	15° る 27'32	0°52'08	minimum elong	5478 Dec 20 16:13	29° х 21′00	0°01'34
morning rise	5478 Jan 10 21:39	9° ට 21'58		transit middle	5478 Dec 20 16:13	29° х 21′00	0°01'34
direct	5478 Jan 14 17:07	7° る 58'56		transit begin	5478 Dec 20 13:25	29° х 29′57	
morning max el	5478 Jan 22 09:36	12° る 20'30	20°09'10	transit end	5478 Dec 20 19:01	29° ₰ 12'04	
	5478 Feb 04 23:01	0° ≈		asc. node	5478 Dec 20 18:04	29° х 15′06	
desc. node	5478 Feb 08 01:02	4° ≈ 33'11		morning rise	5478 Dec 26 08:15	23° ₹ 27'36	
morning set	5478 Feb 18 19:32	20°≈54'43		direct	5478 Dec 29 15:56	22° ₹ 24'14	
	5478 Feb 24 15:31	0° ∀		morning max el	5479 Jan 05 15:31	26° ⊀ 16'35	19°09'24
max. Earth dist.	5478 Mar 01 04:29	7° 米 12'06	1.43854 AU	1 . 111	5479 Jan 08 22:44	0°る	0.7
aumorior comi	5478 Mar 06 22:02	16° ¥ 29'26	2000110	greatest brilliancy desc. node	5479 Jan 19 09:53 5479 Jan 25 22:04	14°る52'05 24°る52'14	-0.7m
superior conj minimum elong	5478 Mar 06 19:56	16 X 2926 16° X 20'48		morning set	5479 Jan 28 21:32	24 3 32 14 29° る 29'17	
minimum clong	5478 Mar 14 23:47	10 γ (2048	2 08 10	morning set	5479 Jan 29 05:27	29 3 29 17 0° ≈	
evening rise	5478 Mar 19 18:55	8° Υ 14'41		max. Earth dist.	5479 Feb 11 19:17		1.44960 AU
asc. node	5478 Mar 31 20:17	28° Y 23′56					
	5478 Apr 01 22:33	8° 0		superior conj	5479 Feb 14 14:07	25° ≈ 35'58	-1°52'01
evening max el	5478 Apr 06 11:03	5° 8 33'59	18°08'58	minimum elong	5479 Feb 14 05:59	25° ≈ 03'45	1°51'25
retrograde	5478 Apr 12 21:22	8° 8 56'24			5479 Feb 17 08:35	0° ∀	
evening set	5478 Apr 15 17:20	8° 8 15'39		evening rise	5479 Mar 01 05:30	19°) (14′43	
inferior conj	5478 Apr 21 22:12	3° 8 03'12	3°20'15		5479 Mar 07 18:21	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	5478 Apr 21 23:59	2° 8 58'28	3°20'01	asc. node	5479 Mar 18 17:19	16° Y 26'33	
min. Earth dist.	5478 Apr 24 17:40	0° 8 05'03	0.62617 AU	evening max el	5479 Mar 20 23:28	18° Y 58'45	18°28'04
	5478 Apr 24 19:39	30°RΥ		retrograde	5479 Mar 27 11:21	22° Y 31'00	
morning rise	5478 Apr 28 05:12	26° Y 57'52		evening set	5479 Mar 30 13:42	21° Y 37'41	2021142
direct desc. node	5478 May 05 01:16	24° Υ 24'44 24° Υ 36'16		inferior conj	5479 Apr 05 09:02	16° Υ 07'15 16° Υ 06'43	3°31'42 3°31'41
uese. Houe	5478 May 07 00:15 5478 May 16 12:32	0° 8		minimum elong min. Earth dist.	5479 Apr 05 09:13 5479 Apr 07 13:31	16°°° 106°43	0.64533 AU
morning max el	5478 May 10 12.32 5478 May 19 02:33	2° 8 25'33	27°51'38	morning rise	5479 Apr 11 03:58	9° Υ 54'57	0.07333 AU
morning max or	5478 Jun 08 11:15	0° I I	2, 5150	direct	5479 Apr 17 22:00	7° Υ 07'13	
morning set	5478 Jun 22 03:14	25° Ⅱ 04'37		desc. node	5479 Apr 23 21:18	8° Y 55'07	
2 ·	5478 Jun 24 12:47	0°ಅ		morning max el	5479 May 01 12:04	15° Υ 03'33	27°23'17
max. Earth dist.	5478 Jun 27 13:59	6°526'59	1.32461 AU	-	5479 May 13 16:51	0°8	
asc. node	5478 Jun 27 19:34	6°\$56'53			5479 Jun 01 04:07	$\Pi^{\circ}0$	
				morning set	5479 Jun 05 19:04	8° Ⅱ 47'01	

max. Earth dist.	5479 Jun 10 12:43	18° Ⅱ 18'49	1.33399 AU		5480 May 06 10:33	0°8	
				morning set	5480 May 18 23:02	21° 8 51'37	
superior conj	5479 Jun 13 22:17	25° Ⅱ 26′07	-0°07'54	max. Earth dist.	5480 May 23 00:32	29° 8 40'20	1.34809 AU
minimum elong	5479 Jun 13 22:41	25° Ⅲ 28'18	0°07'50		5480 May 23 04:32	$\Pi^{\circ}0$	
behind sun begin	5479 Jun 13 17:52	25° Ⅱ 02'45					
behind sun end	5479 Jun 14 03:30	25° Ⅲ 53'51		superior conj	5480 May 27 20:18	9° Ⅱ 22'49	-0°37'31
asc. node	5479 Jun 14 16:35	27° Ⅱ 03′28		minimum elong	5480 May 27 22:22	9°Ⅲ33′25	0°37'08
	5479 Jun 16 01:38	0ංම		asc. node	5480 May 31 13:36	17° Ⅱ 06'16	
evening rise	5479 Jun 21 02:55	10°947'34		evening rise	5480 Jun 04 11:45	25° Ⅱ 17'18	
	5479 Jul 01 00:49	$0^{\circ}\Omega$			5480 Jun 06 18:59	0 \circ \odot	
evening max el	5479 Jul 12 09:50	15° Ω 22'17	22°16'39	evening max el	5480 Jun 23 09:06	26° © 06'14	20°48'28
desc. node	5479 Jul 20 20:30	21° Ω 00′58			5480 Jun 28 11:00	$0^{\circ}\Omega$	
retrograde	5479 Jul 25 08:16	21° Ω 47'46		retrograde	5480 Jul 04 20:34	1° Ω 44'35	
evening set	5479 Jul 28 08:30	21° Ω 27'44		evening set	5480 Jul 06 23:10	1° Ω 33'56	
min. Earth dist.	5479 Aug 05 16:05	17° Ω 51'45	0.55024 AU	desc. node	5480 Jul 06 17:32	1° Ω 36′09	
inferior conj	5479 Aug 06 13:18	17° Ω 21'48	-4°24'48		5480 Jul 11 18:36	30° ₹ 5	
minimum elong	5479 Aug 06 04:51	17° Ω 33'44	4°22'55	inferior conj	5480 Jul 16 06:23	27° © 36'58	-2°47'12
morning rise	5479 Aug 15 02:59	13° Ω 32′03		minimum elong	5480 Jul 15 22:50	27°5947'42	2°44'39
direct	5479 Aug 18 07:16	13° Ω 09'20		min. Earth dist.	5480 Jul 17 02:55	27° © 07'45	0.54816 AU
morning max el	5479 Aug 29 23:47	18° Ω 37'01	21°21'14	morning rise	5480 Jul 24 22:16	23° © 35'18	
Ü	5479 Sep 08 00:49	0° mp		direct	5480 Jul 28 16:30	23° © 04'55	
asc. node	5479 Sep 10 15:52	4° m) 21'02		morning max el	5480 Aug 10 18:14	29° 5 21'14	23°00'54
morning set	5479 Sep 19 03:31	20° Mp 46'27			5480 Aug 11 10:27	0°Ω	
morning sec	5479 Sep 23 13:00	0° ⊽		asc. node	5480 Aug 27 12:53	23° Ω 25'05	
	2.73 Sep 23 13.00	<u> </u>		use. Houe	5480 Aug 30 21:18	0° m	
superior conj	5479 Sep 26 10:51	6° £ 05'32	1°43'17	morning set	5480 Sep 02 14:32	5° Mp 37'55	
minimum elong	5479 Sep 26 10:50	6° ⊆ 05'26	1°43'17	morning set	3400 Sep 02 14.32	3 hg3733	
max. Earth dist.	5479 Sep 30 17:09	14° £ 47'02	1.35207 AU	superior conj	5480 Sep 09 15:31	20° m 43'34	1°39'51
evening rise	5479 Oct 04 22:27	14 = 47 02 22° £ 59'57	1.33207 AU	minimum elong	5480 Sep 09 14:19	20° m/ 37'06	1°39'47
evening rise		0° M		max. Earth dist.		26° m 48'41	1.33748 AU
1 1-	5479 Oct 08 17:22			max. Earth dist.	5480 Sep 12 12:26	20 11/4841 0° ⊆	1.33748 AU
desc. node	5479 Oct 16 19:47	13°M48'29			5480 Sep 14 01:16		
	5479 Oct 27 17:07	0° ⊼ 7	26927122	evening rise	5480 Sep 17 09:17	6° £ 44'09	
evening max el	5479 Nov 09 07:11	14° 🖈 52'26	26°37'32		5480 Sep 30 07:34	0°M	
retrograde	5479 Nov 22 06:50	22° × 707'41		desc. node	5480 Oct 02 16:48	3°M47'47	27017100
evening set	5479 Nov 28 18:52	19° 🗷 30'31	0.66104.433	evening max el	5480 Oct 21 19:51	28°M21'53	27°16'09
min. Earth dist.	5479 Dec 02 20:51	15° ∡ 20′24	0.66124 AU		5480 Oct 23 14:57	0° ∡ 7	
inferior conj	5479 Dec 04 15:18	13°× 14'02		retrograde	5480 Nov 04 06:26	5° ₹ 39'54	
minimum elong	5479 Dec 04 17:00	13° ∡ ′08'58	1°00'17	evening set	5480 Nov 11 04:48	3° ≯ 00'40	
asc. node	5479 Dec 07 15:06	9° ∡ 753'18			5480 Nov 14 11:41	30°RM	
morning rise	5479 Dec 10 15:54	7° ∡ ³30'58		min. Earth dist.	5480 Nov 15 00:55		0.64757 AU
direct	5479 Dec 13 13:47	6° ∡ ¹43'35		inferior conj	5480 Nov 17 07:12	26°M57'19	
morning max el	5479 Dec 20 03:41	10° ∡ 17'46	18°25'38	minimum elong	5480 Nov 17 10:50	26°M47'26	2°02'38
	5480 Jan 03 03:40	0° ਰ		morning rise	5480 Nov 23 18:03	21°M27'49	
morning set	5480 Jan 09 00:18	9° 云 21'42		asc. node	5480 Nov 23 12:07	21°M34'45	
desc. node	5480 Jan 12 19:05	15° る 24'00		direct	5480 Nov 26 08:24	20°M52'33	
	5480 Jan 22 00:38	0° ≈		morning max el	5480 Dec 02 19:37	24°M18'05	17°58'42
					5480 Dec 07 11:22	0°⊀	
superior conj	5480 Jan 24 17:30	4°≈14'34		morning set	5480 Dec 20 08:37	20° ∡ ′41'57	
minimum elong	5480 Jan 24 08:39	3° ≈ 39'55			5480 Dec 25 23:00	0°る	
max. Earth dist.	5480 Jan 25 13:48	5° ≈ 34'10	1.45357 AU	desc. node	5480 Dec 29 16:05	6° る 04'23	
evening rise	5480 Feb 09 16:45	29° ≈ 18'31					
	5480 Feb 10 03:16	0° ∀		superior conj	5481 Jan 03 04:09	13° る 19'43	
greatest brilliancy	5480 Feb 19 16:50	15° ₩ 02'28	-0.8m	minimum elong	5481 Jan 03 00:23	13° る 04'41	0°30'34
	5480 Mar 01 03:31	$\mathbf{\gamma}_{\circ 0}$		max. Earth dist.	5481 Jan 07 09:20	20° る 01'25	1.45007 AU
evening max el	5480 Mar 03 09:08	2° Y 29'54	19°04'51		5481 Jan 13 18:20	0° ≈	
asc. node	5480 Mar 04 14:20	3° Ƴ 39'37		evening rise	5481 Jan 19 09:19	8° ≈ 41'58	
retrograde	5480 Mar 10 06:42	6° Ƴ 23'30			5481 Feb 02 10:07	0° ℋ	
evening set	5480 Mar 13 16:03	5° Ƴ 16'44		greatest brilliancy	5481 Feb 02 16:46	0°) 24′29	-0.6m
	5480 Mar 18 19:38	30° ₹ ₩		evening max el	5481 Feb 14 14:17	16°) €03'35	19°57'35
inferior conj	5480 Mar 19 05:07	29° ∺ 29'55	3°26'50	asc. node	5481 Feb 19 11:22	19°) (49′18	
minimum elong	5480 Mar 19 03:59	29° ∺ 33'30	3°26'45	retrograde	5481 Feb 22 04:32	20°) €28'18	
min. Earth dist.	5480 Mar 20 18:06	27° ∺ 32′23	0.66070 AU	evening set	5481 Feb 25 22:00	19°) 07′15	
morning rise	5480 Mar 24 15:33	23° ¥ 15′11		inferior conj	5481 Mar 03 07:28	13°) €06'02	3°09'20
direct	5480 Mar 31 01:27	20° ∺ 26′27		minimum elong	5481 Mar 03 05:29	13°) 1 2′42	3°08'59
desc. node	5480 Apr 09 18:19	25°) €07'31		min. Earth dist.	5481 Mar 04 05:55	11°) (50′44	0.67179 AU
morning max el	5480 Apr 12 22:00	28°) €04'38	26°25'36	morning rise	5481 Mar 08 12:45	6° ∺ 51'17	
-	5480 Apr 14 17:56	0° Y		direct	5481 Mar 14 10:28	4°) 12′58	

morning max el	5481 Mar 26 07:00	11°) 18'11	25°07'37	direct	5482 Feb 26 00:21	18°≈18'52	
desc. node	5481 Mar 27 15:21	12°) 42'26	23 07 37	morning max el	5482 Mar 08 15:54		23°39'34
dese. Hode	5481 Apr 10 05:19	0°Υ		morning max er	5482 Mar 13 11:10	0° ∀	23 37 34
	5481 Apr 29 03:11	0°8		desc. node	5482 Mar 14 12:23	1°) 16'43	
morning set	5481 May 01 10:28	4° 8 04'38		desc. node	5482 Apr 03 16:30	0°Υ	
max. Earth dist.	5481 May 05 01:53	10° 8 43'40	1.36658 AU	morning set	5482 Apr 12 23:41	15° Υ 11'40	
max. Dartii dist.	3 101 May 03 01.33	10 0 15 10	1.50050110	max. Earth dist.	5482 Apr 16 21:46	21° Υ 58'45	1.38797 AU
superior conj	5481 May 11 08:46	22° 8 47'11	-1°07'29	man. Darin dige.	5482 Apr 21 08:52	0°8	1.50757110
minimum elong	5481 May 11 12:33	23° 8 05'50				• •	
	5481 May 14 23:30	0°II		superior conj	5482 Apr 24 08:04	5° 8 30'26	-1°35'19
asc. node	5481 May 18 10:37	7° I 100'29		minimum elong	5482 Apr 24 13:03	5° 8 53'54	
evening rise	5481 May 19 15:53	9° Ⅱ 28'16		evening rise	5482 May 03 12:38	23° 8 13'33	
<i>8</i> 11	5481 May 30 21:26	0ಂತ		asc. node	5482 May 05 07:40	26° 8 42'03	
evening max el	5481 Jun 05 20:46	7° 5 29'31	19°37'39		5482 May 07 01:04	0° I I	
retrograde	5481 Jun 15 14:41	12°915'43		evening max el	5482 May 19 19:47		18°47'05
evening set	5481 Jun 17 12:41	12° © 05'27		retrograde	5482 May 28 01:13	23° II 37'03	
desc. node	5481 Jun 23 14:34	9° © 39'52		evening set	5482 May 30 03:45	23° Ⅲ 22′08	
inferior conj	5481 Jun 26 07:15	8°901'37	-0°48'30	inferior conj	5482 Jun 07 02:50	19° Ⅱ 01'31	0°58'21
minimum elong	5481 Jun 26 05:03	8°905'05	0°47'40	minimum elong	5482 Jun 07 04:59	18° Ⅱ 57'34	0°57'34
min. Earth dist.	5481 Jun 28 15:46	6°933'01	0.55565 AU	desc. node	5482 Jun 10 11:35	16° Ⅱ 34'55	
morning rise	5481 Jul 04 19:05	3°930'05		min. Earth dist.	5482 Jun 10 08:17	16° Ⅱ 40'41	0.57121 AU
direct	5481 Jul 09 08:39	2°543'42		morning rise	5482 Jun 15 02:52	13° Ⅱ 53'17	
morning max el	5481 Jul 23 07:48	9°\$42'20	24°44'50	direct	5482 Jun 20 14:38	12° Ⅱ 39'49	
	5481 Aug 07 11:31	0° Ω		morning max el	5482 Jul 04 23:07	20° Ⅱ 09'39	26°16'59
asc. node	5481 Aug 14 09:55	12° £ 53′39		5 5	5482 Jul 13 09:31	0ಂತಾ	
morning set	5481 Aug 18 02:17	20° £ 30′10			5482 Jul 30 23:54	$0^{\circ}\Omega$	
	5481 Aug 22 11:43	0° m)		asc. node	5482 Aug 01 06:57	2° Ω 39'54	
		• •		morning set	5482 Aug 02 13:08	5° Ω 18'17	
superior conj	5481 Aug 25 00:33	5° m 32'49	1°30'36	5 5			
minimum elong	5481 Aug 24 22:34	5° m/22'00	1°30'23	superior conj	5482 Aug 09 11:54	20° Ω 26'46	1°16'14
max. Earth dist.	5481 Aug 26 16:01	9° m 07'30	1.32705 AU	minimum elong	5482 Aug 09 09:36	20° Ω 14'07	1°15'54
evening rise	5481 Sep 01 06:12	20° m 56'09		max. Earth dist.	5482 Aug 10 01:08	21° Ω 39'45	1.32086 AU
<i>8</i> 11	5481 Sep 05 20:09	0∘ ⊽			5482 Aug 13 20:40	0° m	
desc. node	5481 Sep 19 13:50	23° ₽ 17'53		evening rise	5482 Aug 16 10:14	5° m) 27'22	
	5481 Sep 24 07:58	0°M			5482 Aug 29 11:00	0ಂಹ	
evening max el	5481 Oct 04 06:28	11°ML26'13	27°27'06	desc. node	5482 Sep 06 10:51	12° £ 06'46	
retrograde	5481 Oct 17 23:29	18°ML41'50		evening max el	5482 Sep 16 12:27	23° ≏ 52'13	27°05'43
evening set	5481 Oct 25 03:26	16°ML09'44		<i>3</i>	5482 Sep 25 08:02	0°M	
min. Earth dist.	5481 Oct 28 19:15	13°ML05'35	0.63063 AU	retrograde	5482 Sep 30 09:21	1°M04'05	
inferior conj	5481 Oct 31 13:11	10°M24'25			5482 Oct 05 06:33	30° ŖΩ	
minimum elong	5481 Oct 31 18:38	10°ML11'04		evening set	5482 Oct 07 10:51	28° ♀ 50'54	
morning rise	5481 Nov 07 11:29	5° M ₊12'00		min. Earth dist.	5482 Oct 11 02:53	26° ♀ 09'05	0.61104 AU
direct	5481 Nov 09 20:50	4°ML45'12		inferior conj	5482 Oct 14 06:02	23° £ 27'05	
asc. node	5481 Nov 10 09:10	4°M46'28		minimum elong	5482 Oct 14 12:27	23° ₽ 13'12	
morning max el	5481 Nov 16 12:28		17°49'19	morning rise	5482 Oct 21 16:03	18° ≏ 35'05	
5 5	5481 Nov 30 21:28	0° ∡ ¹		direct	5482 Oct 23 23:20	18° £ 13'35	
morning set	5481 Dec 02 17:34	3° х 13′24		asc. node	5482 Oct 28 06:14	19° £ 31′20	
				morning max el	5482 Oct 31 03:01	21° ≏ 47'55	17°58'26
superior conj	5481 Dec 14 13:39	23° х 33'27	0°13'58	<i>5</i>	5482 Nov 06 09:53	0°M	- *
minimum elong	5481 Dec 14 15:04	23° х 39'18	0°13'47	morning set	5482 Nov 15 20:38	16°M35'57	
behind sun begin	5481 Dec 14 10:13	23° × 19'08			5482 Nov 23 04:58	0° ∡ 7	
behind sun end	5481 Dec 14 19:54	23° х 59′27				•	
desc. node	5481 Dec 16 13:07	26° ∡ ¹49'54		superior conj	5482 Nov 26 01:31	5° ∡ 03'45	0°51'01
	5481 Dec 18 11:33	0°ਰ		minimum elong	5482 Nov 26 05:14	5° ≯ 20'01	0°50'33
max. Earth dist.	5481 Dec 21 02:50	ა ජ 4° ජ 15'50	1.43954 AU	desc. node	5482 Dec 03 10:07	17° ∡ 36'44	
evening rise	5481 Dec 29 19:38	17° る 57'10	1.15/01110	max. Earth dist.	5482 Dec 03 15:24	17° ∡ 58'34	1.42332 AU
	5482 Jan 06 17:47	0° ≈		evening rise	5482 Dec 09 15:19	27° ∡ ¹41'35	
evening max el	5482 Jan 28 13:56	29° ≈ 38'28	21°03'42	3	5482 Dec 11 02:23	0°る	
	5482 Jan 28 22:29	0° ∀			5482 Dec 31 11:32	0° ≈	
retrograde	5482 Feb 06 02:44	4°) 41′22		evening max el	5483 Jan 11 08:19		22°19'23
asc. node	5482 Feb 06 08:24	4°) (41'04		retrograde	5483 Jan 20 23:24	18°≈58'00	>
evening set	5482 Feb 10 05:38	3° ¥ 05′21		asc. node	5483 Jan 24 05:28	18°≈02'30	
2.0	5482 Feb 13 05:23	30°R≈		evening set	5483 Jan 25 13:16	17°≈06'35	
inferior conj	5482 Feb 15 13:41	26°≈52'18	2°41'35	inferior conj	5483 Jan 30 21:40	17 ≈00 33 10°≈45'04	2°05'08
minimum elong	5482 Feb 15 11:19	27°≈00'29		minimum elong	5483 Jan 30 19:23	10°≈53'01	2°04'23
min. Earth dist.	5482 Feb 15 23:01	26°≈20'01	0.67858 AU	min. Earth dist.	5483 Jan 30 19:10	10°≈53'47	0.68135 AU
morning rise	5482 Feb 20 16:49	20°≈39'08	0.0,000110	morning rise	5483 Feb 05 01:21	4°≈34'55	5.55155 110
				2	1.11110 00 01.21		

direct	5483 Feb 09 18:17	2° ≈ 36'33		morning rise	5484 Jan 20 12:17	18° る 36'39	
morning max el	5483 Feb 19 03:21	8° ≈ 07'07	22°11'06	direct	5484 Jan 24 15:17	17° る 00'57	
desc. node	5483 Mar 01 09:24	20° ≈ 33'07		morning max el	5484 Feb 01 20:47	21° ප 45'01	20°50'06
	5483 Mar 08 02:38	0°) €			5484 Feb 08 20:06	0° ≈	
morning set	5483 Mar 24 09:16	24°) (59′09		desc. node	5484 Feb 16 06:26	10° ≈ 20′05	
	5483 Mar 27 10:51	0 ° \mathbf{Y}			5484 Feb 29 09:06	0° ∀	
max. Earth dist.	5483 Mar 29 18:58	3° Y 53'52	1.40983 AU	morning set	5484 Mar 02 16:08	3° ∺ 33'36	
				max. Earth dist.	5484 Mar 10 22:53	16°) (44′02	1.42938 AU
superior conj	5483 Apr 06 13:33	17° Y 21′05					
minimum elong	5483 Apr 06 18:10		1°57'06	superior conj	5484 Mar 17 20:20	28°) €08'34	
	5483 Apr 13 12:10	0°8		minimum elong	5484 Mar 17 21:38	28°) 14′02	2°08'50
evening rise	5483 Apr 16 22:32	6° 8 23'47			5484 Mar 18 22:40	0°Υ	
asc. node	5483 Apr 22 04:43	16° 8 05'19		evening rise	5484 Mar 29 17:23	18° Y 49'31	
	5483 May 01 02:22	0°II	10016155	ī	5484 Apr 05 01:20	0°8	
evening max el	5483 May 03 02:56	2° Ⅱ 13'13 5° Ⅱ 47'42	18°16'55	asc. node	5484 Apr 08 01:46	5° 8 03'55	10006127
retrograde evening set	5483 May 10 06:37 5483 May 12 16:10	5° П 24'28		evening max el retrograde	5484 Apr 15 14:38 5484 Apr 22 04:06	18° 8 39'00	18°06'27
inferior conj	5483 May 19 20:04	3 П 24 28 0° П 43'47	2016/10	evening set	5484 Apr 24 20:31	18° 8 04'58	
minimum elong	5483 May 19 20:04 5483 May 19 23:31	0° Д 36'22	2°15'21	inferior conj	5484 May 01 08:37	_	3°04'15
minimum ciong	5483 May 20 16:22	30°R 8	2 13 21	minimum elong	5484 May 01 11:16	13° 8 57'21	3°03'47
min. Earth dist.	5483 May 23 06:16	27° 8 49'02	0.59179 AU	min. Earth dist.	5484 May 04 11:32	10° 8 00'12	0.61394 AU
morning rise	5483 May 27 03:54	25° 8 05'18	0.09179110	morning rise	5484 May 08 00:04	7° 8 05'59	0.0133 1110
desc. node	5483 May 28 08:37	24° 8 28'28		desc. node	5484 May 14 05:40	4° 8 47'26	
direct	5483 Jun 02 10:43	23° 8 17'41		direct	5484 May 14 18:02	4° 8 46'39	
	5483 Jun 15 15:56	0° I I		morning max el	5484 May 28 23:06	12° 8 45'20	27°51'50
morning max el	5483 Jun 16 20:01	1° Ⅱ 06'59	27°22'20		5484 Jun 11 15:54	$\Pi^{\circ}0$	
	5483 Jul 07 13:29	0ಂತಾ			5484 Jun 28 21:56	0 \circ \odot	
morning set	5483 Jul 17 21:26	19° © 56'57		morning set	5484 Jul 01 01:12	4° © 19'26	
asc. node	5483 Jul 19 04:00	22° © 38'12		asc. node	5484 Jul 05 01:01	12° 5 43'07	
	5483 Jul 22 13:44	$0^{\circ}\Omega$		max. Earth dist.	5484 Jul 06 21:43	16° 5 344'45	1.32127 AU
superior conj	5483 Jul 24 23:44	5° Ω 19′28	0°57'24	superior conj	5484 Jul 08 10:13	20° © 04'12	0°34'36
minimum elong	5483 Jul 24 21:36	5° Ω 07'40	0°57'00	minimum elong	5484 Jul 08 08:43	19° © 55'59	0°34'16
max. Earth dist.	5483 Jul 24 12:17	4° Ω 16'11	1.31889 AU		5484 Jul 12 22:54	0 ° Ω	
evening rise	5483 Jul 31 18:54	20° Ω 10′23		evening rise	5484 Jul 15 06:05	4° Ω 57'43	
	5483 Aug 05 13:51	0° m)			5484 Jul 28 11:19	0° m/y	2 10 1010 1
desc. node	5483 Aug 24 07:52	29° m 57'51		evening max el	5484 Aug 10 03:30	16° m 23'28	24°49'04
·	5483 Aug 24 08:35	0∘ ʊ	26011112	desc. node	5484 Aug 10 04:55	16° Mp 26'52	
evening max el retrograde	5483 Aug 29 11:37 5483 Sep 12 10:46	5° £ 31'28 12° £ 39'11	26-11-12	retrograde	5484 Aug 24 01:04 5484 Aug 29 09:27	23° m/24'09 22° m/19'39	
evening set	5483 Sep 12 10.46 5483 Sep 18 22:19	12 = 3911 10° ⊆ 57'06		evening set min. Earth dist.	5484 Sep 03 14:52	19° My 33'24	0.57079 AU
min. Earth dist.	5483 Sep 23 00:40	8° £ 22'16	0.59027 AU	inferior conj	5484 Sep 06 10:51	17° Mp 42'25	
inferior conj	5483 Sep 26 06:17	5° £ 56'30		minimum elong	5484 Sep 06 11:29	17° mp 41'21	
minimum elong	5483 Sep 26 11:30	5° ≏ 46'38		morning rise	5484 Sep 14 15:51	13° Mp 34'56	0 19 29
morning rise	5483 Oct 04 02:57	1° £ 27'02		direct	5484 Sep 17 06:00	13° m) 15'59	
direct	5483 Oct 06 11:43	1° ≏ 08'01		morning max el	5484 Sep 26 11:26	17° m) 36'43	19°17'55
morning max el	5483 Oct 14 11:52	5° ≏ 00'23	18°27'26	asc. node	5484 Oct 01 00:19	22° m 52'39	
asc. node	5483 Oct 15 03:17	5° ჲ 38'49			5484 Oct 05 14:41	0∘ ⊽	
	5483 Oct 30 05:13	0° M		morning set	5484 Oct 13 13:04	14° ≙ 58'09	
morning set	5483 Oct 30 12:29	0°M34'58			5484 Oct 21 02:19	0° M	
superior conj	5483 Nov 08 12:07	17°M40'14	1°17'43	superior conj	5484 Oct 21 15:59	1°M06'38	1°34'23
minimum elong	5483 Nov 08 15:44	17° M 56'58	1°17'20	minimum elong	5484 Oct 21 18:21	1°M18'08	1°34'12
P 4 P	5483 Nov 15 08:57	0° ∡ 7	1 40046 177	max. Earth dist.	5484 Oct 28 03:53	13°M22'11	1.38233 AU
max. Earth dist.	5483 Nov 15 22:50	1° 尽 00'11 8° 尽 22'43	1.40346 AU	evening rise desc. node	5484 Oct 31 22:11 5484 Nov 06 04:10	20°M05'32 29°M00'54	
evening rise desc. node	5483 Nov 20 07:21	8° ₹ '22'43 8° ₹ '21'53		desc. node		29°االہ00°54 0° ح ا	
uese. Hout	5483 Nov 20 07:09 5483 Dec 04 03:16	8°×'21'33			5484 Nov 06 18:32 5484 Nov 27 05:51	0° X '	
evening max el	5483 Dec 24 23:02	0 3 26° る 54'05	23°39'17	evening max el	5484 Dec 06 12:03	0 3 10° る 37'42	24°56'59
5. J 1110A OI	5483 Dec 28 09:32	20 ⊙ 3∓03	-0 0/11	retrograde	5484 Dec 18 06:33	10 3 7 4 2 17° 3 27'23	5057
retrograde	5484 Jan 04 17:04	3°≈14'49		evening set	5484 Dec 23 22:12	17 ප 2725	
evening set	5484 Jan 09 19:19	1°≈08'04		asc. node	5484 Dec 27 23:33	10°る38'07	
asc. node	5484 Jan 11 02:31	29° る 54'05		min. Earth dist.	5484 Dec 28 11:00	10° る 00'59	0.67580 AU
	5484 Jan 11 00:14	30°R₹		inferior conj	5484 Dec 29 11:33	8° ප් 40'15	0°30'20
min. Earth dist.	5484 Jan 14 15:57	25° る 28'33	0.68039 AU	minimum elong	5484 Dec 29 10:48	8° ප් 42'41	0°30'02
inferior conj	5484 Jan 15 05:34	24° る 42'02	1°21'05	morning rise	5485 Jan 03 23:35	2° る 41'41	
minimum elong	5484 Jan 15 03:49	24° ප 48'00	1°20'26	direct	5485 Jan 07 13:55	1° る 27'13	

morning max el greatest brilliancy	5485 Jan 14 22:08 5485 Jan 27 22:37 5485 Feb 01 19:43	5°♂34'44 22°♂41'25 0°≈	19°41'48 -0.7m	min. Earth dist. inferior conj minimum elong	5485 Dec 12 01:55 5485 Dec 13 13:44 5485 Dec 13 14:26	24° ₹27′20 22° ₹36′12 22° ₹34′02	
desc. node morning set	5485 Feb 02 03:27 5485 Feb 09 12:28	0°≈29'18 11°≈46'24		asc. node morning rise	5485 Dec 14 20:35 5485 Dec 19 09:14	21° 🗷 01'54 16° 🗷 46'56	0 23 30
max. Earth dist.	5485 Feb 21 04:26 5485 Feb 21 10:41	0° ∺ 0° ∺ 24'46	1.44407 AU	direct morning max el	5485 Dec 22 12:34 5485 Dec 29 06:58	15° х 50'44 19° х 33'36	18°48'46
	5405 E 1 26 01 20	70 1 40121	2002152		5486 Jan 06 11:02	0°る	
superior conj minimum elong	5485 Feb 26 01:38 5485 Feb 25 20:42	7°) (48'31 7°) (28'40		morning set desc. node	5486 Jan 19 23:23 5486 Jan 20 00:28	20°る50'06 20°る54'21	
minimum ciong	5485 Mar 11 11:30	0° Υ	2 03 40	dese. Hode	5486 Jan 25 19:42	0°≈	
evening rise	5485 Mar 11 16:48	0° Υ 22'26		max. Earth dist.	5486 Feb 04 03:58	14° ≈ 38′17	1.45220 AU
asc. node	5485 Mar 25 22:48	23° Y 29'56					
evening max el	5485 Mar 30 03:37	28° Y 36'02	18°14'57	superior conj	5486 Feb 05 10:04	16°≈36'29	
retrograde	5485 Mar 31 16:53 5485 Apr 05 13:21	0°8 2°800'47		minimum elong	5486 Feb 05 00:42 5486 Feb 13 21:17	15°≈59'43 0°) €	1-38-12
evening set	5485 Apr 08 12:07	1° 8 14'37		evening rise	5486 Feb 20 17:21	10°) 57'50	
<i>3</i>	5485 Apr 10 09:26	30°RY		<i>5</i> 21	5486 Mar 04 14:59	0°Υ	
inferior conj	5485 Apr 14 12:28	25° Y 54'18	3°27'21	asc. node	5486 Mar 12 19:50	11° Y 12'52	
minimum elong	5485 Apr 14 13:33	25° Y 51'15	3°27'17	evening max el	5486 Mar 13 15:03	12° Y 03'36	18°41'38
min. Earth dist.	5485 Apr 17 01:43	23° Y '04'40	0.63471 AU	retrograde	5486 Mar 20 06:05	15° Y 43'43	
morning rise	5485 Apr 20 13:56	19° Y 45'36		evening set	5486 Mar 23 11:20	14° Υ 44'38	2021122
direct desc. node	5485 Apr 27 10:07	17° Υ '04'46 17° Υ '45'56		inferior conj	5486 Mar 29 03:36	9° Υ 06'43 9° Υ 08'00	3°31'23 3°31'23
morning max el	5485 May 01 02:41 5485 May 11 07:00	25° Υ 04'13	27°43'46	minimum elong min. Earth dist.	5486 Mar 29 03:11 5486 Mar 31 01:19	6° Υ 47'24	0.65232 AU
morning max ci	5485 May 15 18:53	0° 8	27 43 40	morning rise	5486 Apr 03 18:29	2°Υ52'59	0.03232 710
	5485 Jun 05 02:50	0°II		direct	5486 Apr 10 09:32	0° Υ 03'37	
morning set	5485 Jun 14 22:12	18° Ⅱ 19′02		desc. node	5486 Apr 17 23:43	2° Y 56'59	
max. Earth dist.	5485 Jun 20 01:36	28° Ⅱ 53'57	1.32807 AU	morning max el	5486 Apr 23 17:04	7° Y 53'41	27°02'00
	5485 Jun 20 14:04	0 \circ \odot			5486 May 10 20:29	9° 8	
asc. node	5485 Jun 21 22:03	2° © 50'35			5486 May 28 11:12	$\Pi^{\circ}0$	
	5405 X 20 15 20	1000 510 1	0000107	morning set	5486 May 29 09:26	1° Ⅱ 46′24	1 22011 177
superior conj	5485 Jun 22 17:33	4°535'24	0°08'27	max. Earth dist.	5486 Jun 02 20:11	10° Ⅱ 33'44	1.33944 AU
minimum elong behind sun begin	5485 Jun 22 17:09 5485 Jun 22 12:35	4°\$33'11 4°\$08'37	0°08'20	superior conj	5486 Jun 06 19:37	18° ∏ 45'55	0°20'18
behind sun end	5485 Jun 22 21:42	4°957'46		minimum elong	5486 Jun 06 20:42	18° I I51'34	
evening rise	5485 Jun 29 17:53	19°543'16		asc. node	5486 Jun 08 19:04	22° I 55'56	0 20 00
<i>8</i> 11	5485 Jul 04 18:08	$0^{\circ}\Omega$			5486 Jun 12 02:59	0°€	
evening max el	5485 Jul 22 15:53	26° Ω 46′06	23°12'20	evening rise	5486 Jun 14 04:20	4° 5 20'07	
	5485 Jul 26 11:42	0° m			5486 Jun 28 08:25	0 ° Ω	
desc. node	5485 Jul 28 01:55	1° m 03'01		evening max el	5486 Jul 04 08:51	7° Ω 12'17	21°37'18
retrograde	5485 Aug 05 02:36	3° Tp 29'41		desc. node	5486 Jul 14 22:55	13° Ω 12'24	
evening set	5485 Aug 08 22:57	2° m 57'19		retrograde	5486 Jul 16 17:58	13° Ω 20'01	
min. Earth dist.	5485 Aug 15 13:30 5485 Aug 16 01:00	30°RΩ 20°Ω/3'32	0.55575 AU	evening set inferior conj	5486 Jul 19 06:52 5486 Jul 28 14:42	13° Ω 05'24 9° Ω 04'38	-3°/18'11
inferior conj	5485 Aug 17 19:35	28° Ω 41'25		minimum elong	5486 Jul 28 05:47	9° Ω 17'06	3°45'41
minimum elong	5485 Aug 17 13:40	28°Ω50'06	4°59'06	min. Earth dist.	5486 Jul 28 10:49	9° Ω 10'04	0.54818 AU
morning rise	5485 Aug 26 06:40	24° Ω 49'42		morning rise	5486 Aug 06 05:54	5° Ω 12'45	
direct	5485 Aug 29 05:18	24° Ω 28′56		direct	5486 Aug 09 15:23	4° Ω 47'41	
morning max el	5485 Sep 08 23:13	29° Ω 28'50	20°30'24	morning max el	5486 Aug 21 23:12	10° Ω 35'39	22°02'19
	5485 Sep 09 12:17	0°Щ		asc. node	5486 Sep 04 18:21	29° Ω 44'15	
asc. node	5485 Sep 17 21:20	10° m 58'31			5486 Sep 04 21:49	0° m/y	
morning set	5485 Sep 27 19:24	29° ™ 37'15 0° ⊆		morning set	5486 Sep 12 05:15	14° m 25'57	
	5485 Sep 27 23:50	0 ==		superior conj	5486 Sep 19 09:23	29° m 37'36	1°42'36
superior conj	5485 Oct 05 08:20	15° ≏ 09'23	1°42'14	minimum elong	5486 Sep 19 08:49	29° mp 34'35	1°42'35
minimum elong	5485 Oct 05 09:09	15° ≙ 13'32			5486 Sep 19 13:39	0∘ <u>⊽</u>	
max. Earth dist.	5485 Oct 10 11:10	25° ≏ 19'08	1.36234 AU	max. Earth dist.	5486 Sep 23 01:16	7° ≙ 13'27	1.34536 AU
	5485 Oct 12 22:08	0° M		evening rise	5486 Sep 27 12:37	16° ≏ 06'47	
evening rise	5485 Oct 14 09:18	2°M43'33			5486 Oct 05 02:23	0° M	
desc. node	5485 Oct 24 01:11	19°M29'15		desc. node	5486 Oct 10 22:11	9° ጤ 41'27	
	5485 Oct 30 18:54	0° 🔏 240 ₹21142	26905117	·	5486 Oct 25 07:00	0° ⊀ 7	0.605.615.0
evening max el	5485 Nov 19 00:44	24° メ 21'43 0° る	26°05'17	evening max el	5486 Nov 01 13:27	7° ≯ 59'14 15° ≯ 16'54	26°56'50
retrograde	5485 Nov 26 07:48 5485 Dec 01 15:06	1°る30'19		retrograde evening set	5486 Nov 14 18:17 5486 Nov 21 11:16	15° ₹ 16'54 12° ₹ 37'33	
Tonograde	5485 Dec 06 10:20	1 ℃3019 30°R <i>X</i> 7		min. Earth dist.	5486 Nov 25 10:31		0.65586 AU
avanina aat							
evening set	5485 Dec 07 20:11	28° ₹ 57'29		inferior conj	5486 Nov 27 10:06	6°×'26'04	-1°27'28

minimum elong	5486 Nov 27 12:36	6° ∡ 18'52	1°26'24	asc. node	5487 Nov 18 14:39	14°M20'43	
asc. node	5486 Dec 01 17:36	2°×102'30	1 20 24	direct	5487 Nov 20 01:33	14°ML10'01	
morning rise	5486 Dec 03 14:55	0° ₹ 48'43		morning max el	5487 Nov 26 13:58	17°M34'54	17°52'30
direct	5486 Dec 06 09:16	0°× 4043		morning max cr	5487 Dec 05 13:59	0°×7	17 32 30
morning max el	5486 Dec 12 21:13	3°×736'19	18°12'08	morning set	5487 Dec 13 10:36	13° х 14'35	
morning max cr	5486 Dec 30 18:58	0°중	10 12 00	morning sec	5487 Dec 23 09:52	0°중	
morning set	5486 Dec 31 15:00	1° る 21'34		desc. node	5487 Dec 24 18:29	2°る13'48	
desc. node	5487 Jan 06 21:29	11° る 30'45		desc. node	3107 BCC 21 10.29	2 013 10	
dese. Hode	3107 Juli 00 21:29	11 030 13		superior conj	5487 Dec 26 09:23	4° ප 52'14	-0°11'22
superior conj	5487 Jan 15 14:08	25° පි 20'27	-0°58'04	minimum elong	5487 Dec 26 08:05	4° ප 46'57	
minimum elong	5487 Jan 15 07:03	24° る 52'34		behind sun begin	5487 Dec 26 00:47	4°る17'20	
max. Earth dist.	5487 Jan 17 23:22	29° る 05'26	1.45295 AU	behind sun end	5487 Dec 26 15:23	5° ರ 16'33	
	5487 Jan 18 13:17	0° ≈		max. Earth dist.	5487 Dec 31 17:46	13° る 27'14	1.44637 AU
evening rise	5487 Jan 31 19:44	20° ≈ 42'16		evening rise	5488 Jan 11 07:40	29° る 57'11	
Č	5487 Feb 06 19:11	0°) {		Ü	5488 Jan 11 08:24	0° ≈	
greatest brilliancy	5487 Feb 12 21:00	9°) 20′05	-0.7m		5488 Jan 31 14:18	0°)	
evening max el	5487 Feb 24 22:54	25°) ₹35'55	19°25'23	evening max el	5488 Feb 08 01:45	9°) 10′13	20°24'18
asc. node	5487 Feb 27 16:51	28°) €00'54		asc. node	5488 Feb 14 13:54	13°) 39′18	
retrograde	5487 Mar 04 02:55	29°) 42′08		retrograde	5488 Feb 16 01:11	13° ¥ 50′50	
evening set	5487 Mar 07 15:29	28°) 29′28		evening set	5488 Feb 19 22:23	12°) €23'43	
inferior conj	5487 Mar 13 02:43	22°) 36′04	3°20'49	inferior conj	5488 Feb 25 07:01	6° ₩ 17'12	2°58'43
minimum elong	5487 Mar 13 01:10	22°) (41'08	3°20'37	minimum elong	5488 Feb 25 04:49	6°) 24'44	2°58'14
min. Earth dist.	5487 Mar 14 09:20	20° ¥ 56′05	0.66592 AU	min. Earth dist.	5488 Feb 25 23:49	5°) 20′00	0.67520 AU
morning rise	5487 Mar 18 10:33	16°) 20'47		morning rise	5488 Mar 01 11:01	0°) 02'46	
direct	5487 Mar 24 15:29	13°) 35′22		-	5488 Mar 01 12:15	30°R≈	
desc. node	5487 Apr 04 20:46	19°) 47'55		direct	5488 Mar 07 02:53	27° ≈ 31'08	
morning max el	5487 Apr 06 02:56	21°) €02'03	25°54'17		5488 Mar 13 12:37	0°) €	
	5487 Apr 13 21:07	$0^{\circ}\Upsilon$		morning max el	5488 Mar 18 11:35	4°) (19′04	24°30'39
	5487 May 04 01:01	9° 8		desc. node	5488 Mar 21 17:48	7°) € 50'33	
morning set	5487 May 12 07:00	14° 8 30'42			5488 Apr 07 04:42	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	5487 May 16 03:12	21° 8 44'25	1.35545 AU	morning set	5488 Apr 23 09:46	26° Ƴ 18′02	
	5487 May 20 08:14	$\Pi^{\circ}0$			5488 Apr 25 11:54	9° 8	
				max. Earth dist.	5488 Apr 27 00:51	2° 8 46'29	1.37540 AU
superior conj	5487 May 21 13:55	2° Ⅱ 29′18	-0°50'20				
minimum elong	5487 May 21 16:44	2° Ⅱ 43'30	0°49'49	superior conj	5488 May 03 21:20	15° 8 37'47	-1°19'45
asc. node	5487 May 26 16:06	12° Ⅲ 55′22		minimum elong	5488 May 04 01:44	15° 8 59'05	1°19'05
evening rise	5487 May 29 11:26	18° ∏ 42'15			5488 May 11 04:01	Π °0	
	5487 Jun 04 04:24	0 \circ \odot		evening rise	5488 May 12 12:49	2° Ⅱ 43'19	
evening max el	5487 Jun 16 13:12	18° © 11'23	20°15'57	asc. node	5488 May 12 13:09	2° ∏ 45′01	
retrograde	5487 Jun 27 07:28	23° 5 27'40			5488 May 29 08:43	0 \circ	
evening set	5487 Jun 29 06:03	23° © 18'06		evening max el	5488 May 29 06:09	29° Ⅱ 53'47	19°13'43
desc. node	5487 Jul 01 19:58	22° © 38'00		retrograde	5488 Jun 07 07:23	4° © 19'27	
inferior conj	5487 Jul 08 09:20	19° © 19'56	-1°57'18	evening set	5488 Jun 09 06:41	4° © 07'45	
minimum elong	5487 Jul 08 03:51	19° © 28'00	1°55'18	inferior conj	5488 Jun 17 17:22	29° ∏ 58′01	
min. Earth dist.	5487 Jul 09 22:37	18° © 25'04	0.55013 AU	minimum elong	5488 Jun 17 17:21	29° ∏ 58′03	0°00'17
morning rise	5487 Jul 17 00:23	15° © 06'54		transit middle	5488 Jun 17 17:21	29° ∏ 58′03	0°00'17
direct	5487 Jul 21 01:56	14° © 31'05		transit begin	5488 Jun 17 13:31	0°904'27	
morning max el	5487 Aug 03 14:54	21° © 07'25	23°45'35	transit end	5488 Jun 17 21:11	29° ∏ 51'38	
	5487 Aug 11 06:25	0 \circ Ω		desc. node	5488 Jun 17 17:01	29° ∏ 58'37	
asc. node	5487 Aug 22 15:22	18° Ω 59'38			5488 Jun 17 16:11	30°Ŗ Ⅱ	
morning set	5487 Aug 27 16:47	29° Ω 18′25		min. Earth dist.	5488 Jun 20 13:06		0.56140 AU
	5487 Aug 28 00:38	0° m		morning rise	5488 Jun 26 00:57	25° Ⅱ 10'45	
				direct	5488 Jul 01 00:11	24° Ⅱ 13'48	
superior conj	5487 Sep 03 16:12	14° Tp 21'39			5488 Jul 13 13:59	0°€	
minimum elong	5487 Sep 03 14:36	14° Mp 13'03	1°36'29	morning max el	5488 Jul 15 04:26	1°927'45	25°26'26
max. Earth dist.	5487 Sep 06 00:02	19° m 21'15	1.33244 AU	1	5488 Aug 04 02:54	0°N	
evening rise	5487 Sep 11 04:07	0° ჲ 04'07		asc. node	5488 Aug 08 12:25	8° Ω 36'45	
J 1	5487 Sep 11 03:18	0∘ ⊽		morning set	5488 Aug 11 04:22	14° Ω 09'47	
desc. node	5487 Sep 27 19:12	29° Ω 29'49			5400 A 10 00 00	200 01 4112	1025106
avanir 1	5487 Sep 28 03:06	0°M	27924122	superior conj	5488 Aug 18 02:29	29° Ω 14'13	1°25'06
evening max el	5487 Oct 15 01:21	21°M19'25	21-24-32	minimum elong	5488 Aug 18 00:19	29° Ω 02'17	1°24'50
retrograde	5487 Oct 28 15:29	28°M37'49			5488 Aug 18 10:50	0° Mp	1 22207 411
evening set	5487 Nov 04 16:52	26°M00'08	0.64060 433	max. Earth dist.	5488 Aug 19 06:17	1° Mp 46'35	1.32386 AU
min. Earth dist.	5487 Nov 08 10:43	22°M38'42		evening rise	5488 Aug 25 04:27	14° Mp 26'02	
inferior conj	5487 Nov 10 22:10	20°M03'37		J 1	5488 Sep 02 04:24	0° <u>೧</u>	
minimum elong morning rise	5487 Nov 11 02:36 5487 Nov 17 13:48	19°M52'00 14°M41'06	Z-29'41	desc. node	5488 Sep 13 16:15 5488 Sep 22 10:01	18° ≏ 44'27 0° ™	
	140 / 1801 / 1 1 1 4 X	14 111.41.116			1400 3EU // HEU		

	5400 C 26 10 22	40 m 10101	27022112	. 1	5400 C 22 11 50	220 0 27120	
evening max el	5488 Sep 26 10:32	4°M10'01	21°22'13	retrograde	5489 Sep 22 11:50	23° Ω 26'28	
retrograde	5488 Oct 10 05:44	11°M24'03		evening set	5489 Sep 29 09:03	21° ≙ 25'26	
evening set	5488 Oct 17 09:35	8°M58'48		min. Earth dist.	5489 Oct 03 04:02	18° ≏ 48'43 0.60227 AU	U
min. Earth dist.	5488 Oct 21 00:49	6°M05'16	0.62255 AU	inferior conj	5489 Oct 06 09:13	16° ≏ 11'44 -4°31'05	
inferior conj	5488 Oct 23 23:01	3°M22'03	-3°34'35	minimum elong	5489 Oct 06 15:29	15° ≙ 58'56 4°29'41	
minimum elong	5488 Oct 24 05:03	3°M08'00	3°32'41	morning rise	5489 Oct 13 23:56	11° ≏ 28'50	
	5488 Oct 27 22:07	30° Ŗ Ω		direct	5489 Oct 16 07:32	11° ഫ 08'35	
morning rise	5488 Oct 31 02:19	28° ≏ 17'38		asc. node	5489 Oct 22 08:44	13° △ 34'10	
direct	5488 Nov 02 10:20	27° £ 53′29		morning max el	5489 Oct 23 18:39	14° ≏ 49'17 18°08'14	
asc. node	5488 Nov 04 11:42	28° ≏ 12'49			5489 Nov 03 05:07	0° M ,	
	5488 Nov 07 17:10	0°M		morning set	5489 Nov 08 13:08	9° M 50'20	
morning max el	5488 Nov 09 06:13	1°M22'06	17°50'45	Č			
morning set	5488 Nov 25 04:02	26°M10'17		superior conj	5489 Nov 18 04:22	27°M39'05 1°03'38	
morning sec	5488 Nov 27 07:23	0° √		minimum elong	5489 Nov 18 08:16	27°M56'31 1°03'09	
	3400 NOV 27 07.23	0 %		minimum ciong	5489 Nov 19 11:57	0° ∡	
superior conj	5488 Dec 06 06:12	15° ∡ ³38'46	0°30'53	max. Earth dist.	5489 Nov 25 20:09	10° ₹ 58'05 1.41525 AU	ſΤ
	5488 Dec 06 08:57	15° × 50'28	0°30'31	desc. node		13° ₹ 46'55	J
minimum elong			0-30/31		5489 Nov 27 12:32		
desc. node	5488 Dec 10 15:30	23°×700'16	1 40000 477	evening rise	5489 Nov 30 23:48	19° ∡ 127'50	
max. Earth dist.	5488 Dec 13 09:13	27° ₹ 29'29	1.43332 AU		5489 Dec 07 16:19	0° ප	
	5488 Dec 14 22:28	0° ろ			5489 Dec 28 23:48	0° ≈	
evening rise	5488 Dec 20 20:12	9° る 20'48		evening max el	5490 Jan 03 15:53	6°≈23'57 22°53'12	
	5489 Jan 03 13:18	0° ≈		retrograde	5490 Jan 13 18:15	12° ≈ 23′27	
evening max el	5489 Jan 20 23:11	22° ≈ 45'54	21°35'05	asc. node	5490 Jan 18 08:00	10° ≈ 36′12	
retrograde	5489 Jan 29 22:49	28° ≈ 05'40		evening set	5490 Jan 18 13:22	10° ≈ 25'17	
asc. node	5489 Jan 31 10:58	27° ≈ 53'35		inferior conj	5490 Jan 23 22:23	4°≈01'30 1°47'18	
evening set	5489 Feb 03 06:13	26° ≈ 23'16		minimum elong	5490 Jan 23 20:16	4°≈08'48 1°46'34	
inferior conj	5489 Feb 08 14:14	20°≈06'27	2°27'05	min. Earth dist.	5490 Jan 23 15:03	4°≈26'51 0.68145 AU	U
minimum elong	5489 Feb 08 11:50	20°≈14'45	2°26'23		5490 Jan 27 00:25	30°R♂	
min. Earth dist.	5489 Feb 08 18:28	19° ≈ 51'44	0.68031 AU	morning rise	5490 Jan 29 03:06	27° る 53'26	
morning rise	5489 Feb 13 17:17	13° ≈ 54'27		direct	5490 Feb 02 14:02	26° る 04'47	
direct	5489 Feb 18 18:43	11°≈42'59		4.1.000	5490 Feb 10 03:41	0°≈	
morning max el	5489 Feb 28 20:55	17°≈41'52	23°01'19	morning max el	5490 Feb 11 10:36	1°≈14'05 21°35'23	
desc. node	5489 Mar 08 14:49	26°≈44'18	25 01 17	desc. node	5490 Feb 23 11:49	1 ≈1403 21 33 23 16°≈15'02	
desc. Hode		20 ≈ 44 18		desc. Hode		10 ≈13 02 0° X	
	5489 Mar 11 02:17	0° Υ		. ,	5490 Mar 04 22:54		
	5489 Mar 31 07:00			morning set	5490 Mar 15 09:04	16° 米 05'35	
morning set	5489 Apr 04 11:39	6° Y 51'48		max. Earth dist.	5490 Mar 21 20:49	26° ¥ 36'46 1.41865 AU	U
max. Earth dist.	5489 Apr 08 20:25	14° Ƴ 15'33	1.39741 AU		5490 Mar 23 21:37	0° Ƴ	
superior conj	5489 Apr 16 13:40	28° Y ′00′24		superior conj	5490 Mar 29 10:05	9° Y 25'43 -2°03'55	
minimum elong	5489 Apr 16 18:47	28° Y 23′52	1°45'09	minimum elong	5490 Mar 29 13:44	9° Υ 41'34 2°03'45	
	5489 Apr 17 15:37	8° 0		evening rise	5490 Apr 09 09:28	29° Ƴ 07'46	
evening rise	5489 Apr 26 05:24	16° 8 14'44			5490 Apr 09 20:53	0° 8	
asc. node	5489 Apr 29 10:13	22° 8 19'32		asc. node	5490 Apr 16 07:16	11° 8 33'26	
	5489 May 03 15:43	$\Pi^{\circ}0$		evening max el	5490 Apr 25 18:36	25° 8 04'50 18°10'01	
evening max el	5489 May 12 09:08	12° Ⅱ 14'27	18°31'48	retrograde	5490 May 02 14:53	28° 8 32'27	
retrograde	5489 May 20 01:54	16° Ⅱ 02'52		evening set	5490 May 05 03:24	28° 8 04'49	
evening set	5489 May 22 07:32	15° Ⅱ 44'38		inferior conj	5490 May 12 00:03	23° 8 14'59 2°40'03	
inferior conj	5489 May 29 22:08	11° Ⅱ 15'31	1°35'18	minimum elong	5490 May 12 03:20	23° 8 07'28 2°39'17	
minimum elong	5489 May 30 01:11	11° Ⅱ 09′32	1°34'17	min. Earth dist.	5490 May 15 08:05	20° 8 13'38 0.60124 AU	U
min. Earth dist.	5489 Jun 02 07:25	8° ∏ 37'40	0.57959 AU	morning rise	5490 May 19 00:45	17° 8 26'53	_
desc. node	5489 Jun 04 14:04	7° П 03'16	0.57757110	desc. node	5490 May 22 11:05	15° 8 52'32	
morning rise	5489 Jun 06 15:36	5° П 53'37		direct	5490 May 25 13:13	15° 8 25'20	
•							
direct	5489 Jun 12 12:25	4° Ⅱ 25'59	26040440	morning max el	5490 Jun 08 21:21	23° 8 19'10 27°39'36	
morning max el	5489 Jun 26 21:36	12° Ⅱ 04'35	26°48'48		5490 Jun 14 20:41	0°II	
	5489 Jul 10 21:43	0∘ ©			5490 Jul 04 01:42	0ං ම	
asc. node	5489 Jul 26 09:28	28° © 28'35		morning set	5490 Jul 10 20:55	13°926'30	
morning set	5489 Jul 26 14:19	28° © 54'10		asc. node	5490 Jul 13 06:30	18° 9 30'07	
	5489 Jul 27 02:46	0 ° Ω		max. Earth dist.	5490 Jul 17 03:52	26°557'21 1.31943 AU	Ű
superior conj	5489 Aug 02 14:14	14° Ω 07'57	1°08'47	superior conj	5490 Jul 18 01:39	28°957'24 0°48'11	
minimum elong	5489 Aug 02 11:57	13° Ω 55'19	1°08'23	minimum elong	5490 Jul 17 23:44	28°\$46'48 0°47'47	
max. Earth dist.	5489 Aug 02 16:50	14° Ω 22'20	1.31955 AU	3	5490 Jul 18 13:00	$0^{\circ}\Omega$	
evening rise	5489 Aug 09 10:44	29° Ω 03'04		evening rise	5490 Jul 24 20:42	13° Ω 48'17	
5	5489 Aug 09 21:34	0° my		<i>5</i> - -	5490 Aug 01 23:08	0° m	
	5489 Aug 26 10:53	0∘ ত		desc. node	5490 Aug 18 10:19	24° m/30'01	
desc. node	5489 Aug 31 13:17	0 – 7° ≏ 10'57		evening max el	5490 Aug 21 09:46	27° m/34'18 25°38'53	
evening max el	5489 Sep 08 14:03	7 = 1037 16° ≏ 17'18	26°46'28	Croning max of	5490 Aug 21 04:24 5490 Aug 24 04:24	0° <u>₽</u>	
	2TU2 DU UU 1T.U3	10 -1/10	20 70 20		5-70 11ug 4-7 U4.44	· —	

retrograde	5490 Sep 04 08:30	4° £ 39'37		desc. node	5491 Aug 05 07:20	10° mp 15'25	
evening set	5490 Sep 10 10:23	3° £ 12'59		retrograde	5491 Aug 16 18:01	15° Mp 06'20	
min. Earth dist.	5490 Sep 14 21:46	0° £ 35'52	0.58166 AU	evening set	5491 Aug 21 11:26	13 my 00 20 14° my 16'51	
iiiii. Eartii dist.	5490 Sep 15 18:30	30°RM)	0.38100 AC	min. Earth dist.	5491 Aug 27 09:51	11° Mp 20'28	0.56357 AU
inferior conj	5490 Sep 18 01:14	28° Mp 22'41	5°10'20	inferior conj	5491 Aug 29 21:07	9° Mp 48'37	
minimum elong	5490 Sep 18 04:57	28° Mp 16'05		minimum elong	5491 Aug 29 18:58	9° m y 51'58	
morning rise	5490 Sep 26 01:48	24° Mp 03'12	3 1007	morning rise	5491 Sep 07 05:00	5° Mp 49'25	3 17 14
direct	5490 Sep 28 12:34	23° Mp 44'25		direct	5491 Sep 09 22:14	5° Mp 30'05	
morning max el	5490 Oct 06 23:54	27° m 47'01	18°46'21	morning max el	5491 Sep 19 18:50	10°M)06'18	19°46'13
asc. node	5490 Oct 00 25:34 5490 Oct 09 05:45	27 m/4701 0° Ω 11'14	10 40 21	asc. node	5491 Sep 26 02:47	17° Mp 49'10	19 40 13
asc. node		0° ₽		asc. node		17 11⊉4910 0° Ω	
	5490 Oct 09 01:57	24° £ 00'26			5491 Oct 03 04:48		
morning set	5490 Oct 23 09:05	0°M		morning set	5491 Oct 07 12:25	8° £ 31'24	
	5490 Oct 26 10:31	บาแน			5401 0-4 15 00.41	249 0 22122	1°38'42
aumorior comi	5400 Oat 21 22:57	10°M38'34	1025157	superior conj	5491 Oct 15 08:41 5491 Oct 15 10:23	24° £ 22'32 24° £ 31'00	1°38'36
superior conj	5490 Oct 31 22:57			minimum elong		0°M	1 36 30
minimum elong	5490 Nov 01 02:06	10°M53'31	1°25'39	E 4 E 4	5491 Oct 18 05:35		1 27246 ATT
max. Earth dist.	5490 Nov 08 02:11	23°M42'10	1.39441 AU	max. Earth dist.	5491 Oct 21 07:06	5°M49'28	1.37346 AU
	5490 Nov 11 17:19	0° ∡ 7		evening rise	5491 Oct 25 01:26	12°M42'32	
evening rise	5490 Nov 12 01:29	0° ∡ 34'39		desc. node	5491 Nov 01 06:35	25°M05'07	
desc. node	5490 Nov 14 09:33	4° ₹ 29'46			5491 Nov 04 07:36	0° ∡ 7	
	5490 Dec 01 01:04	0°₹			5491 Nov 26 02:56	0°ಕ	
evening max el	5490 Dec 17 05:27	20° る 04'45	24°12'59	evening max el	5491 Nov 29 18:04		25°27'37
retrograde	5490 Dec 28 10:17	26° る 39'20		retrograde	5491 Dec 11 21:57	10° る 48'49	
evening set	5491 Jan 02 18:15	24° る 25'58		evening set	5491 Dec 17 19:17	8° る 22'11	
asc. node	5491 Jan 05 05:02	21° る 54'52		min. Earth dist.	5491 Dec 22 04:57	3° る 31'39	0.67270 AU
min. Earth dist.	5491 Jan 07 11:18	19° る 01'06	0.67886 AU	inferior conj	5491 Dec 23 10:16	1° る 57'16	0°07'00
inferior conj	5491 Jan 08 05:39	17° る 59'13	1°00'18	minimum elong	5491 Dec 23 10:05	1° る 57'51	0°06'56
minimum elong	5491 Jan 08 04:17	18° る 03'51	0°59'47	transit middle	5491 Dec 23 10:05	1° る 57'51	0°06'56
morning rise	5491 Jan 13 14:23	11° පි 56'41		transit begin	5491 Dec 23 07:34	2°る06'00	
direct	5491 Jan 17 11:44	10°る30'32		transit end	5491 Dec 23 12:37	1° る 49'42	
morning max el	5491 Jan 25 07:26	14° ප 57'41	20°19'21	asc. node	5491 Dec 23 02:01	2° る 23'52	
	5491 Feb 06 02:41	0° ≈			5491 Dec 24 23:26	30°₽ ⋌	
desc. node	5491 Feb 10 08:49	6° ≈ 12'09		morning rise	5491 Dec 29 01:14	26° ₹ 02'15	
morning set	5491 Feb 22 08:34	24° ≈ 22'27		direct	5492 Jan 01 10:33	24° ₹ 56'07	
_	5491 Feb 25 23:19	0° ℋ		morning max el	5492 Jan 08 12:11	28° ₹ 52'11	19°17'15
max. Earth dist.	5491 Mar 04 04:14	9° ∺ 50'07	1.43634 AU	•	5492 Jan 09 14:11	8°0	
				greatest brilliancy	5492 Jan 21 21:05	16° පි 45'54	-0.7m
superior conj	5491 Mar 10 06:00	19°) 43′38	-2°09'03	desc. node	5492 Jan 28 05:50	26° る 28'47	
minimum elong	5491 Mar 10 04:51	19° ¥ 38'56	2°09'02		5492 Jan 30 12:35	0° ≈	
Č	5491 Mar 16 08:52	$_0$ $^{\circ}$ $^{\circ}$		morning set	5492 Feb 01 08:14	2°≈48'54	
evening rise	5491 Mar 22 20:35	11° Y 12'01		max. Earth dist.	5492 Feb 14 18:08	23° ≈ 44'58	1.44840 AU
	5491 Apr 02 23:18	0°8					
asc. node	5491 Apr 03 04:18	0° 8 19'12		superior conj	5492 Feb 18 01:13	28° ≈ 58'05	-1°55'48
evening max el	5491 Apr 09 07:07	8° 8 15'24	18°07'43	minimum elong	5492 Feb 17 17:47	28°≈28'33	
retrograde	5491 Apr 15 18:00	11° 8 37'26	10 07 15	g	5492 Feb 18 16:47	0° ∀	1 00 10
evening set	5491 Apr 18 13:01	10° 8 58'31		evening rise	5492 Mar 03 10:31	22°) 20'27	
inferior conj	5491 Apr 24 19:38	5° 8 49'03	3°16'42	evening rise	5492 Mar 08 01:18	0°Υ	
minimum elong	5491 Apr 24 21:39	5° 8 43'47	3°16'26	asc. node	5492 Mar 20 01:19	18° Υ 28'21	
min. Earth dist.	5491 Apr 27 17:13	2° 8 48'39	0.62305 AU	evening max el	5492 Mar 22 19:45	21° Y 39'03	18°24'09
Lattii Gist.	5491 Apr 30 20:50	2 Ο 46 39	5.02505 AU	retrograde	5492 Mar 29 06:48	21 γ 39 03 25° γ 08'53	10 240)
morning rise	5491 May 01 04:43	29° Y 45'17		evening set	5492 Apr 01 08:13	24° Υ 17'27	
direct	5491 May 08 00:29	27° Υ 15'17		inferior conj	5492 Apr 07 04:45	18° Υ 49'42	3°31'05
desc. node	5491 May 09 08:05	27° Υ 20'29		minimum elong	5492 Apr 07 05:10	18° Y 48'30	3°31'04
desc. flode	•	27 1 20 29 0° と		min. Earth dist.	5492 Apr 09 11:35	16° Υ 11'03	0.64269 AU
mamina may al	5491 May 15 19:59	5° 8 16'13	27052152			10 γ 11 03	0.04209 AU
morning max el	5491 May 22 03:00	0°II	21 32 33	morning rise	5492 Apr 13 01:16	9° Υ 51'44	
morning set	5491 Jun 09 17:03			direct	5492 Apr 19 20:08	9° γ ′51′44 11° Υ 19'16	
morning set	5491 Jun 24 22:08	27° Ⅱ 40′27		desc. node	5492 Apr 25 05:06		27920127
1	5491 Jun 26 01:25	0.ಪ ೧.ಪ		morning max el	5492 May 03 12:05	17° Y 49'21	27°29'36
asc. node	5491 Jun 30 03:33	8°936'48	1 22256 ***		5492 May 13 16:39	0° Β	
max. Earth dist.	5491 Jun 30 11:25	9° © 19'08	1.32356 AU		5492 Jun 01 14:01	0°II	
	5404 X 5 05 11 5	100-0	0000:	morning set	5492 Jun 07 15:23	11° Ⅱ 27'38	
superior conj	5491 Jul 02 11:02	13°937'05	0°23'52	max. Earth dist.	5492 Jun 12 11:28	21° Ц 15'14	1.33227 AU
minimum elong	5491 Jul 02 09:56	13° © 31'09	0°23'36				
evening rise	5491 Jul 09 08:21	28°935'27		superior conj	5492 Jun 15 16:25	28° ∏ 00′28	
	5491 Jul 10 00:16	$0^{\circ}\Omega$		minimum elong	5492 Jun 15 16:36	28° Ⅲ 01'25	0°03'31
	5491 Jul 26 22:50	0° m		behind sun begin	5492 Jun 15 11:16	27° Ⅲ 33'04	
evening max el	5491 Aug 02 23:10	8° Mp 10'06	24°08'43	behind sun end	5492 Jun 15 21:55	28° Ⅱ 29'48	

asc. node	5492 Jun 16 00:34	28° Ⅱ 43'55		minimum elong	5493 May 30 17:23	12° Ⅱ 10′21	0°32'37
use. Houe	5492 Jun 16 14:48	0°9		asc. node	5493 Jun 02 21:36	18° ∏ 47'38	0 3237
evening rise	5492 Jun 22 19:48	13°917'53		evening rise	5493 Jun 07 05:08	27° ∏ 49'47	
<i>8</i> 21	5492 Jul 01 06:46	0°N		8	5493 Jun 08 06:20	0ಂತಾ	
evening max el	5492 Jul 14 12:36	18° Ω 30'39	22°30'58	evening max el	5493 Jun 26 10:04	29° © 09'00	21°00'35
desc. node	5492 Jul 22 04:22	23° £ 53′11		Z .	5493 Jun 27 07:40	$\Omega^{\circ}\Omega$	
retrograde	5492 Jul 27 14:47	25° Ω 01′20		retrograde	5493 Jul 08 03:20	4° Ω 55'10	
evening set	5492 Jul 30 19:52	24° Ω 38'39		desc. node	5493 Jul 09 01:22	4° Ω 53'09	
min. Earth dist.	5492 Aug 07 19:53	21° Ω 08'55	0.55140 AU	evening set	5493 Jul 10 08:07	4° Ω 43'46	
inferior conj	5492 Aug 08 22:57	20° Ω 30'31	-4°35'48	inferior conj	5493 Jul 19 16:01	0° Ω 46′20	-3°04'13
minimum elong	5492 Aug 08 14:58	20° Ω 41'52	4°34'11	minimum elong	5493 Jul 19 07:55	0° Ω 57'46	3°01'34
morning rise	5492 Aug 17 11:59	16° Ω 40'44		min. Earth dist.	5493 Jul 20 06:17	0° Ω 26′12	0.54788 AU
direct	5492 Aug 20 14:43	16° Ω 18'36			5493 Jul 21 00:58	30° ₹ 5	
morning max el	5492 Sep 01 01:26	21° Ω 38'58	21°07'24	morning rise	5493 Jul 28 07:54	26° © 47'57	
	5492 Sep 08 01:20	0° m ∕		direct	5493 Jul 31 23:46	26° © 19'10	
asc. node	5492 Sep 11 23:48	6° Mp 13′26			5493 Aug 10 22:02	$0^{\circ}\Omega$	
morning set	5492 Sep 20 20:29	23° My 15'05		morning max el	5493 Aug 13 21:05	2° Ω 28′01	22°45'27
	5492 Sep 24 02:02	0∘ ⊽		asc. node	5493 Aug 29 20:52	25° Ω 12'53	
					5493 Sep 01 08:26	0° ™	
superior conj	5492 Sep 28 05:08	8° ≏ 37'08	1°43'13	morning set	5493 Sep 05 07:18	8°Mp05'52	
minimum elong	5492 Sep 28 05:20	8° 亞 38'08	1°43'13				
max. Earth dist.	5492 Oct 02 16:41	17° ≙ 41'50	1.35467 AU	superior conj	5493 Sep 12 08:57	23°M 12'38	1°40'45
evening rise	5492 Oct 06 20:00	25° ≏ 41'24		minimum elong	5493 Sep 12 07:54	23° Mp 07'01	1°40'43
	5492 Oct 09 03:49	0°M₊		max. Earth dist.	5493 Sep 15 10:43	29° m 41'26	1.33942 AU
desc. node	5492 Oct 18 03:36	15°M27'18			5493 Sep 15 14:18	0₀ ⊽	
	5492 Oct 27 18:48	0° ∡ ¹		evening rise	5493 Sep 20 05:00	9° ₽ 20'12	
evening max el	5492 Nov 11 06:56	17° ∡ ³31'32	26°29'46		5493 Oct 01 14:47	0° M	
retrograde	5492 Nov 24 04:21	24° ∡ ¹45'10		desc. node	5493 Oct 05 00:38	5°M30'09	
evening set	5492 Nov 30 14:37	22° ∡ ¹09'06			5493 Oct 23 17:45	0°⊀	
min. Earth dist.	5492 Dec 04 17:37	17° ∡ ¹53'40		evening max el	5493 Oct 24 19:43	1° ≯ 03′28	27°11'57
inferior conj	5492 Dec 06 10:16	15° ∡ ′51′13		retrograde	5493 Nov 07 04:50	8° ₹ 21'18	
minimum elong	5492 Dec 06 11:42	15° ∡ 46'55	0°51'06	evening set	5493 Nov 14 01:59	5° ∡ 741'46	0.64004.433
asc. node	5492 Dec 08 23:03	12° ∡ 56'34		min. Earth dist.	5493 Nov 17 22:53	2° ₹ 01'26	0.64984 AU
morning rise	5492 Dec 12 09:29	10° ₹ 06'21			5493 Nov 19 18:53	30°RM	105404
direct	5492 Dec 15 08:44	9° 🖈 16'45	10021105	inferior conj	5493 Nov 20 03:26	29°M36'16	
morning max el	5492 Dec 21 23:32	12° ₹ 52'49	18°31'05	minimum elong	5493 Nov 20 06:46	29°M27'03	1°53′02
. ,	5493 Jan 03 09:48	0°궁 12°중28'25		asc. node	5493 Nov 25 20:06	24°M26'03	
morning set	5493 Jan 11 06:43	12° 6 28'25 16° る 59'07		morning rise	5493 Nov 26 12:41	24°M04'39	
desc. node	5493 Jan 14 02:52 5493 Jan 22 08:41	0°≈		direct	5493 Nov 29 04:01	23°M27'47 26°M53'53	18°01'38
	3493 Jan 22 08.41	0 &		morning max el	5493 Dec 05 15:09 5493 Dec 08 08:34	20 II c 33 33 0° √	16 01 36
superior conj	5493 Jan 27 05:20	7° ≈ 37'43	1922100	morning set	5493 Dec 23 10:50	23° ∡ ¹36'26	
minimum elong	5493 Jan 26 20:07	7°≈01'36		morning set	5493 Dec 27 10:30 5493 Dec 27 07:37	23 メ ・30 20	
max. Earth dist.	5493 Jan 27 12:30		1.45345 AU	desc. node	5493 Dec 27 07:37 5493 Dec 31 23:53	7° る 38'28	
max. Latur dist.	5493 Feb 10 10:41	0° ∺	1.43343 AO	desc. node	5475 Dec 51 25.55	7 03020	
evening rise	5493 Feb 12 01:11	2°) 32'31		superior conj	5494 Jan 06 13:40	16°₹35'30	-0°38'15
greatest brilliancy	5493 Feb 21 06:11	17° ₩ 07'04	-0.8m	minimum elong	5494 Jan 06 09:00	16° る 16'55	
greatest similary	5493 Mar 01 22:26	0°Υ	0.011	max. Earth dist.	5494 Jan 10 08:21	22° る 34'19	1.45103 AU
evening max el	5493 Mar 06 06:00	5° Ƴ 09'57	18°58'18		5494 Jan 15 02:08	0°≈	
asc. node	5493 Mar 06 22:20	5° Y ′50′01		evening rise	5494 Jan 22 19:58	12° ≈ 00′26	
retrograde	5493 Mar 13 01:33	8° Y ′59'33		Ü	5494 Feb 03 14:27	0°) €	
evening set	5493 Mar 16 09:51	7° Ƴ 54'44		greatest brilliancy	5494 Feb 05 15:28	3°) €02'55	-0.7m
inferior conj	5493 Mar 21 23:39	2° Υ 10'12	3°28'28	evening max el	5494 Feb 17 11:54	18°) 43′18	19°48'47
minimum elong	5493 Mar 21 22:42	2° Y 13′12	3°28'23	asc. node	5494 Feb 21 19:23	22°) 10′18	
min. Earth dist.	5493 Mar 23 14:53	0° Y 06'50	0.65867 AU	retrograde	5494 Feb 24 23:17	23° ∺ 02'59	
	5493 Mar 23 17:05	30° ₹		evening set	5494 Feb 28 15:27	21°) 44'03	
morning rise	5493 Mar 27 11:10	25°) 55'43		inferior conj	5494 Mar 06 01:17	15°) 44'41	3°12'42
direct	5493 Apr 02 22:34	23°) €06′28		minimum elong	5494 Mar 05 23:24	15°) 50′59	3°12'23
desc. node	5493 Apr 12 02:08	27° ¥ 16′55		min. Earth dist.	5494 Mar 07 01:46	14° ¥ 23′03	0.67039 AU
	5493 Apr 15 02:48	$0^{\circ}\Upsilon$		morning rise	5494 Mar 11 07:08	9° ∺ 29'47	
morning max el	5493 Apr 15 22:04	0° Ƴ 47'52	26°35'46	direct	5494 Mar 17 06:46	6°) 49′28	
	5493 May 07 17:05	0° 8		morning max el	5494 Mar 29 07:24	14° ₩ 00'37	25°20'10
morning set	5493 May 21 21:23	24° 8 38'29		desc. node	5494 Mar 29 23:10	14°) 41′05	
	5493 May 24 16:17	$\Pi^{\circ}0$			5494 Apr 11 07:36	$0^{\circ}\Upsilon$	
max. Earth dist.	5493 May 26 01:08	2° Ⅱ 41'32	1.34573 AU		5494 Apr 30 12:32	9° 8	
		_		morning set	5494 May 04 11:39	7° 8 00'10	
superior conj	5493 May 30 15:35	12° Ⅱ 01'04	-0°32'58	max. Earth dist.	5494 May 08 04:02	13° 8 46'48	1.36361 AU

superior conj	5494 May 14 05:42	25° 8 30'40	-1°03'01		5495 Apr 22 19:29	0° 8	
minimum elong	5494 May 14 09:14	25° 8 48'13	1°02'24				
	5494 May 16 11:33	$\Pi^{\circ 0}$		superior conj	5495 Apr 27 07:13	8° 8 20'25	
asc. node	5494 May 20 18:39	8° Ⅱ 43'25		minimum elong	5495 Apr 27 12:06	8° 8 43'31	1°30'44
evening rise	5494 May 22 10:09	12° Ⅱ 04'00		evening rise	5495 May 06 08:13	25° 8 53'25	
	5494 May 31 23:14	0°©	10046153	asc. node	5495 May 07 15:42	28° 8 27'03	
evening max el	5494 Jun 08 19:49	10°525'37	19°46'53		5495 May 08 10:52	0°II	10050100
retrograde	5494 Jun 18 19:58	15°5019'34		evening max el	5495 May 22 17:21	22° Ⅲ 24'36 26° Ⅲ 32'53	18°53'20
evening set desc. node	5494 Jun 20 17:45 5494 Jun 25 22:25	15°509'39		retrograde	5495 May 31 03:41 5495 Jun 02 05:11	26°Щ32'53 26°Щ18'59	
inferior conj	5494 Jun 25 22:25 5494 Jun 29 14:52	13°5016'22 11°507'32	1906121	evening set inferior conj	5495 Jun 10 07:19	26°Щ18'39 22°Щ01'22	0942140
minimum elong	5494 Jun 29 11:49			minimum elong	5495 Jun 10 07:19	22 H01 22 21°H58'22	0°43'11
min. Earth dist.	5494 Jul 01 18:46	9° 9 47'35	0.55394 AU	desc. node	5495 Jun 12 19:27	20° I I3'50	0 43 11
morning rise	5494 Jul 01 18:46 5494 Jul 08 03:46	6° 9 41'08	0.55594 AU	min. Earth dist.	5495 Jun 13 10:49	19° Ⅱ 47'13	0.56846 AU
direct	5494 Jul 12 14:03	5°957'55		morning rise	5495 Jun 18 09:27	16° Д 58'19	0.50040 AC
morning max el	5494 Jul 26 11:04	12° 9 51'04	24°29'48	direct	5495 Jun 23 18:01	15° ∏ 49'20	
morning max or	5494 Aug 08 16:23	0° Ω	21 27 10	morning max el	5495 Jul 08 01:48		26°04'42
asc. node	5494 Aug 16 17:56	14° Ω 38'19		morning must be	5495 Jul 14 03:07	0.20 215 15	20 02
morning set	5494 Aug 20 19:05	22° £ 58'35			5495 Aug 01 11:25	$0^{\circ}\Omega$	
8	5494 Aug 24 01:23	0° m		asc. node	5495 Aug 03 14:57	4° Ω 22'14	
	Č	•		morning set	5495 Aug 05 06:09	7° Ω 47'33	
superior conj	5494 Aug 27 17:31	8° m 00'57	1°32'21	Č	Č		
minimum elong	5494 Aug 27 15:38	7° m 50'39	1°32'10	superior conj	5495 Aug 12 04:39	22° Ω 54'42	1°18'45
max. Earth dist.	5494 Aug 29 13:11	11° m 57'44	1.32828 AU	minimum elong	5495 Aug 12 02:22	22° Ω 42′09	1°18'24
evening rise	5494 Sep 04 00:38	23° m 28'47		max. Earth dist.	5495 Aug 12 21:34	24° Ω 27'53	1.32145 AU
	5494 Sep 07 07:17	0∘ ⊽			5495 Aug 15 10:14	0° m	
desc. node	5494 Sep 21 21:40	25° ჲ 05'39		evening rise	5495 Aug 19 03:46	7° m 57'39	
	5494 Sep 25 07:05	0°M₊			5495 Aug 30 17:33	0∘ ত	
evening max el	5494 Oct 07 06:43	14°ML12'27	27°27'27	desc. node	5495 Sep 08 18:43	14° ≏ 01'51	
retrograde	5494 Oct 20 23:01	21°M29'02		evening max el	5495 Sep 19 13:33	26° ≏ 45'01	27°11'08
evening set	5494 Oct 28 02:36	18°M54'59			5495 Sep 23 09:53	0° M	
min. Earth dist.	5494 Oct 31 18:47	15°M46'42	0.63333 AU	retrograde	5495 Oct 03 10:13	3°M57'48	
inferior conj	5494 Nov 03 11:09	13°M06'40		evening set	5495 Oct 10 12:37	1°M41'02	
minimum elong	5494 Nov 03 16:21	12°M53'41	2°56'42		5495 Oct 12 21:13	30° ₹ Ω	
morning rise	5494 Nov 10 07:43	7°M51'39		min. Earth dist.	5495 Oct 14 04:07		0.61405 AU
direct	5494 Nov 12 17:36	7°M23'52		inferior conj	5495 Oct 17 06:11	26° £ 13'41	
asc. node	5494 Nov 12 17:10	7°M23'52	17040124	minimum elong	5495 Oct 17 12:34	25° £ 59'37	3°58'07
morning max el	5494 Nov 19 08:09	10° M. 48'58 0° ∡ 7	17°49'34	morning rise	5495 Oct 24 14:30	21° £ 18'27	
morning set	5494 Dec 02 06:04 5494 Dec 05 16:34	0° × ¹ 5° × ¹58'47		direct asc. node	5495 Oct 26 21:48 5495 Oct 30 14:13	20° £ 56'25 21° £ 55'02	
morning set	3494 Dec 03 10.34	3 X 3047		morning max el	5495 Nov 02 23:16	21 = 33 02 24° £ 29'06	17°55'48
superior conj	5494 Dec 17 19:21	26° ₹ 38'16	0°07'32	morning max cr	5495 Nov 07 11:16	24 = 2900	17 33 46
minimum elong	5494 Dec 17 19:21 5494 Dec 17 20:09	26° × 41'32	0°07'27	morning set	5495 Nov 18 17:20	19°M14'52	
behind sun begin	5494 Dec 17 11:40	26° ⊀ 106'26	0 0/2/	morning sec	5495 Nov 24 15:22	0° √ 7	
behind sun end	5494 Dec 18 04:38	27° х 16′33				* *	
desc. node	5494 Dec 18 20:54	28° ≯ 23'32		superior conj	5495 Nov 29 03:26	7° ₹ 757'34	0°46'03
	5494 Dec 19 20:26	0°ರ		minimum elong	5495 Nov 29 06:59	8° ≯ 12'58	0°45'34
max. Earth dist.	5494 Dec 24 02:10	6° ප 51'20	1.44151 AU	desc. node	5495 Dec 05 17:55	19° ∡ 10′24	
evening rise	5495 Jan 02 06:13	21° る 14'22		max. Earth dist.	5495 Dec 06 15:19	20° ∡ ³38'46	1.42607 AU
	5495 Jan 08 00:03	0° ≈			5495 Dec 12 10:24	ರ°0	
	5495 Jan 29 09:47	0° ∀		evening rise	5495 Dec 12 23:39	0° る 52'23	
evening max el	5495 Jan 31 12:22	2° 升 17'44	20°53'07		5496 Jan 01 13:24	0° ≈	
retrograde	5495 Feb 08 21:38	7° ℋ 14'56		evening max el	5496 Jan 14 07:29	15° ≈ 53′21	22°07'42
asc. node	5495 Feb 08 16:26	7° ℋ 14'41		retrograde	5496 Jan 23 18:35	21° ≈ 30′55	
evening set	5495 Feb 12 22:59	5° ∺ 41'14		asc. node	5496 Jan 26 13:29	20° ≈ 49'58	
	5495 Feb 17 22:18	30° R ≈		evening set	5496 Jan 28 06:41	19° ≈ 41'55	
inferior conj	5495 Feb 18 07:06	29° ≈ 29'41	2°46'22	inferior conj	5496 Feb 02 14:57	13° ≈ 21'30	2°11'09
minimum elong	5495 Feb 18 04:46	29°≈37'46	2°45'47	minimum elong	5496 Feb 02 12:37	13°≈29'36	2°10'25
min. Earth dist.	5495 Feb 18 18:19	28°≈51'01	0.67784 AU	min. Earth dist.	5496 Feb 02 14:11	13°≈24'08	0.68122 AU
morning rise	5495 Feb 23 10:22	23°≈16'04		morning rise	5496 Feb 07 18:23	7°≈10'43	
direct	5495 Feb 28 20:02	20°≈52'45	22052152	direct	5496 Feb 12 13:30	5°≈08'51	22022151
morning max el	5495 Mar 11 16:14	27° ≈ 20'49 0°) €	23°52'52	morning max el	5496 Feb 22 02:57	10°≈46'50	22°23'51
desc. node	5495 Mar 14 03:55	0° X 3° X 07'27		desc. node	5496 Mar 02 17:11	22°≈18'03 0° 米	
uesc. Houe	5495 Mar 16 20:11 5495 Apr 04 23:17	3°π0/2/ 0°Υ		morning set	5496 Mar 08 06:35 5496 Mar 26 18:27	0° X 28° ¥ 17'28	
morning set	5495 Apr 16 04:34	18° Υ 17'58		morning set	5496 Mar 27 19:31	26 χ1/26 0° Υ	
max. Earth dist.	5495 Apr 20 00:02	24° Υ 56'46	1.38467 AU	max. Earth dist.	5496 Mar 31 20:24		1.40663 AU
man. Durui Uist.	5 155 11p1 20 00.02	2. 13070	1.50 10/ /10	man. Darm dist.	5 17 5 17 101 51 20.24	0 1 43 33	1.10005 AU

superior conj	5496 Apr 08 15:41	20° Ƴ 19'43	-1°54'38		5497 Mar 20 07:58	0°Υ	
minimum elong	5496 Apr 08 20:31	20° Υ 41'28			5197 Wai 20 07.50	0 1	
	5496 Apr 13 22:38	0°8		superior conj	5497 Mar 21 02:05	1° Y 16'53	-2°08'04
evening rise	5496 Apr 18 19:57	9° 8 09'22		minimum elong	5497 Mar 21 04:06	1° Y 25'30	2°08'01
asc. node	5496 Apr 23 12:44	17° 8 53'28		evening rise	5497 Apr 01 17:17	21° Y 41'55	
	5496 Apr 30 20:22	$\Pi^{\circ}0$			5497 Apr 06 08:53	9° 8	
evening max el	5496 May 04 23:35		18°20'12	asc. node	5497 Apr 10 09:46	6° 8 55'54	
retrograde	5496 May 12 06:15	8° Ⅱ 36'57		evening max el	5497 Apr 18 10:48	17° 8 59'29	18°06'48
evening set	5496 May 14 14:48	8° Ⅱ 15'06		retrograde	5497 Apr 25 01:37	21° 8 22'34	
inferior conj	5496 May 21 21:24	3° Ⅲ 37'32	2°06'27	evening set	5497 Apr 27 17:05	20° 8 50'11	
minimum elong	5496 May 22 00:49	3° Ⅱ 30′22	2°05'27	inferior conj	5497 May 04 07:16	15° 8 51'59	2°58'42
min. Earth dist.	5496 May 25 07:51	0° Ⅱ 46'22	0.58853 AU	minimum elong	5497 May 04 10:06	15° 8 45'05	2°58'09
	5496 May 26 07:57	30°R 8		min. Earth dist.	5497 May 07 11:43	12° と 48'13 9° と 56'25	0.61065 AU
morning rise desc. node	5496 May 29 07:46 5496 May 29 16:28	28° と 03'05 27° と 51'34		morning rise desc. node	5497 May 11 01:03 5497 May 16 13:28	7° 8 45'38	
direct	5496 Jun 04 12:17	26° 8 20'32		direct	5497 May 17 17:56	7° 8 41'30	
direct	5496 Jun 14 01:50	0° Ⅱ		morning max el	5497 May 31 23:48	15° 8 38'54	27°49'55
morning max el	5496 Jun 18 21:38	4° Ⅱ 07'26	27°14'44	morning max cr	5497 Jun 12 16:44	0° Ⅱ	21 47 33
morning max or	5496 Jul 07 20:30	0°95	27 1111		5497 Jun 30 09:24	0°9	
morning set	5496 Jul 19 14:55	22° © 27'54		morning set	5497 Jul 03 19:27	6°952'47	
asc. node	5496 Jul 20 11:59	24°519'01		asc. node	5497 Jul 07 09:00	14° © 22'59	
	5496 Jul 23 03:23	$0^{\circ}\Omega$		max. Earth dist.	5497 Jul 09 18:37	19° © 34'59	1.32067 AU
superior conj	5496 Jul 26 16:30	7° Ω 47'57	1°00'34	superior conj	5497 Jul 11 03:16	22° © 33'49	0°38'19
minimum elong	5496 Jul 26 14:19	7° Ω 35'51	1°00'09	minimum elong	5497 Jul 11 01:38	22° © 24'53	0°37'57
max. Earth dist.	5496 Jul 26 08:38	7° Ω 04'29	1.31893 AU		5497 Jul 14 12:26	$0^{\circ}\Omega$	
evening rise	5496 Aug 02 11:53	22° Ω 39′28		evening rise	5497 Jul 17 22:48	7° Ω 26′15	
	5496 Aug 06 01:04	0°Щ			5497 Jul 29 15:43	0°Щ	
	5496 Aug 24 01:00	0∘ ⊽		desc. node	5497 Aug 12 12:45	18° m 45'35	
desc. node	5496 Aug 25 15:44	2° Ω 02'48		evening max el	5497 Aug 13 06:44	19° m 29'32	25°02'33
evening max el	5496 Aug 31 13:56	8° £ 31'38	26°21'20	retrograde	5497 Aug 27 04:39	26° m 31'17	
retrograde	5496 Sep 14 12:52	15° £ 39'36		evening set	5497 Sep 01 18:03	25° Mp 21'07	0 57254 ATT
evening set	5496 Sep 21 03:16	13° £ 52'26	0.50229 AII	min. Earth dist.	5497 Sep 06 18:14	22° m/37'47 20° m/40'39	
min. Earth dist. inferior conj	5496 Sep 25 03:18 5496 Sep 28 09:04	11° ≙ 17'35 8° ≙ 48'23	0.59338 AU	inferior conj minimum elong	5497 Sep 09 16:36 5497 Sep 09 18:09	20° m/38'03	
minimum elong	5496 Sep 28 14:40	8° £ 37'35		morning rise	5497 Sep 17 20:32	16° Mp 30'07	3 18 20
morning rise	5496 Oct 06 04:15	4° ⊆ 15'16	7 7/77	direct	5497 Sep 20 09:48	16° Mp 11'13	
direct	5496 Oct 08 12:33	3° £ 56'01		morning max el	5497 Sep 29 10:09	20° m) 26'47	19°09'02
asc. node	5496 Oct 16 11:14	7° £ 50'22		asc. node	5497 Oct 03 08:14	24° m 54'36	
morning max el	5496 Oct 16 09:06	7° Ω 45'11	18°21'45		5497 Oct 06 19:27	0∘ <u>⊽</u>	
-	5496 Oct 30 15:51	0°M		morning set	5497 Oct 16 07:00	17° ≏ 28'54	
morning set	5496 Nov 01 07:33	3°M08'59			5497 Oct 22 14:27	0° M	
	5406 N 10 10-56	200 m 24120	101420		5407 0-4 24 12-21	20 m 44115	1922127
superior conj	5496 Nov 10 10:56	20°M24'38	1°14'20 1°13'54	superior conj	5497 Oct 24 12:31	3°M44'15	1°32′26 1°32′15
minimum elong	5496 Nov 10 14:40 5496 Nov 15 19:12	20° ™ 41'46 0° ҂	1 13 34	minimum elong max. Earth dist.	5497 Oct 24 15:07 5497 Oct 31 04:51	3°M56'45 16°M14'45	1.38545 AU
max. Earth dist.	5496 Nov 17 23:34	3° ∡ 747'00	1.40662 AU	evening rise	5497 Nov 03 23:46	22°M57'32	1.36343 AU
desc. node	5496 Nov 21 14:57	9° x ⁷ 55'49	1.40002 710	desc. node	5497 Nov 08 11:59	0° √ 35'57	
evening rise	5496 Nov 22 12:18	11° ₹ 24'05		dese. Hode	5497 Nov 08 03:19	0° ≯	
<i>y</i> 21	5496 Dec 04 09:02	0° ප			5497 Nov 28 05:30	0° ਰ	
evening max el	5496 Dec 26 22:40	29° る 32'25	23°27'22	evening max el	5497 Dec 09 11:48	13° る 15'33	24°45'49
C	5496 Dec 27 09:50	0°≈		retrograde	5497 Dec 21 02:46	20° ට 01'26	
retrograde	5497 Jan 06 12:40	5° ≈ 47'40		evening set	5497 Dec 26 16:28	17° る 42'13	
evening set	5497 Jan 11 13:02	3° ≈ 43'11		asc. node	5497 Dec 30 07:30	13° る 45'59	
asc. node	5497 Jan 12 10:30	2° ≈ 54'02		min. Earth dist.	5497 Dec 31 06:20	12° る 31'56	0.67672 AU
	5497 Jan 14 22:45	30°Rる		inferior conj	5498 Jan 01 05:18	11° る 15'56	0°38'27
inferior conj	5497 Jan 16 22:56	27° る 17'41	1°28'12	minimum elong	5498 Jan 01 04:22	11° る 19'00	0°38'05
minimum elong	5497 Jan 16 21:04	27° る 24'03	1°27'32	morning rise	5498 Jan 06 16:25	5° る 16'22	
min. Earth dist.	5497 Jan 16 10:58	27° ප් 58'44	0.68081 AU	direct	5498 Jan 10 08:33	3°る58'55	
morning rise	5497 Jan 22 05:03	21°る11'31		morning max el	5498 Jan 17 19:27	8°る10'57	19°51'05
direct	5497 Jan 26 10:07	19° る 32'25	21001124	greatest brilliancy	5498 Jan 31 02:10	25°₹35'21	-0.6m
morning max el	5497 Feb 03 19:14	24°る22'36 0°≈	21°01'24	daga mada	5498 Feb 03 01:24	0°≈ 2°≈07'00	
desc. node	5497 Feb 08 17:50 5497 Feb 17 14:11	0°≈ 12°≈00'42		desc. node morning set	5498 Feb 04 11:13 5498 Feb 13 01:00	2°≈07'00 15°≈11'55	
dese. Houe	5497 Mar 01 16:12	12 ≈ 00 42 0° ∺		morning set	5498 Feb 22 12:39	13 ≈ 11 33	
morning set	5497 Mar 06 04:38	7° ∺ 00'15		max. Earth dist.	5498 Feb 24 10:20		1.44230 AU
max. Earth dist.	5497 Mar 13 23:21	19° H 26'08	1.42674 AU	man. Darui dist.	5.55100 27 10.20	5 7(0112	1250710
		. ,,					

superior conj	5498 Mar 01 11:07	11° ∺ 06'22	-2°05'54	desc. node	5499 Jan 22 08:14	22° る 29'55	
minimum elong	5498 Mar 01 07:12	10° ¥ 50′27	2°05'45	morning set	5499 Jan 23 08:26	24° る 04'24	
	5498 Mar 12 20:06	0 ° $\mathbf{\Upsilon}$			5499 Jan 27 03:28	0° ≈	
evening rise	5498 Mar 14 19:52	3° Y 23′09		max. Earth dist.	5499 Feb 07 02:54	17° ≈ 10'39	1.45145 AU
asc. node	5498 Mar 28 06:47	25° Y 27′08					
	5498 Mar 31 19:07	0°8		superior conj	5499 Feb 08 21:56	19° ≈ 59'54	-1°44'04
evening max el	5498 Apr 01 23:43	1° 8 16'18	18°12'27	minimum elong	5499 Feb 08 12:52	19°≈24'10	
•	•	4° 8 39'59	10 1227	minimum clong		0°) €	1 43 17
retrograde	5498 Apr 08 09:27				5499 Feb 15 05:28		
evening set	5498 Apr 11 07:15	3° 8 55'42		evening rise	5499 Feb 23 23:58	14°) €07'12	
	5498 Apr 16 02:37	30° Ŗ ♈			5499 Mar 05 19:36	0 ° \mathbf{Y}	
inferior conj	5498 Apr 17 09:05	28° Ƴ 38'00	3°25'12	asc. node	5499 Mar 15 03:49	13° Ƴ 17'15	
minimum elong	5498 Apr 17 10:25	28° Ƴ 34'20	3°25'04	evening max el	5499 Mar 16 11:32	14° Ƴ 42'53	18°36'30
min. Earth dist.	5498 Apr 20 00:32	25° Y 45′05	0.63180 AU	retrograde	5499 Mar 23 01:19	18° Y 20′04	
morning rise	5498 Apr 23 12:25	22° Ƴ 30'21		evening set	5499 Mar 26 05:32	17° Y 23′03	
direct	5498 Apr 30 08:41	19° Ƴ 52'02		inferior conj	5499 Mar 31 22:48	11° Ƴ 47'41	3°31'47
desc. node	5498 May 03 10:28	20° Υ 20'36		minimum elong	5499 Mar 31 22:36	11° Υ 48'19	3°31'46
	5498 May 14 07:13	27° Υ 52'02	27°47'16	min. Earth dist.	5499 Apr 02 22:53	9° Υ 22'56	0.64997 AU
morning max el	•		2/4/10		•	5° Υ 34'15	0.04997 AU
	5498 May 16 08:07	0° 8		morning rise	5499 Apr 06 15:02		
	5498 Jun 06 10:54	$\Pi^{\circ}0$		direct	5499 Apr 13 07:12	2° Y 45'14	
morning set	5498 Jun 17 17:36	20° Ⅱ 55'46		desc. node	5499 Apr 20 07:30	5° Ƴ 13'35	
	5498 Jun 22 03:19	0		morning max el	5499 Apr 26 17:15	10° Ƴ 37'57	27°10'00
max. Earth dist.	5498 Jun 22 23:37	1° © 47'27	1.32675 AU		5499 May 12 00:15	$8^{\circ 0}$	
asc. node	5498 Jun 24 06:02	4°529'56			5499 May 29 22:16	$\Pi^{\circ}0$	
				morning set	5499 Jun 01 06:33	4° Ⅱ 28'34	
superior conj	5498 Jun 25 11:09	7° © 06'42	0°12'35	max. Earth dist.	5499 Jun 05 19:43		1.33740 AU
minimum elong	5498 Jun 25 10:33	7°903'26	0°12'26	mar. Bartii dibt.	5 199 0411 00 19.15	15 25122	1.557.10110
-	5498 Jun 25 07:14	6°945'28	0 12 20	aumorior coni	5499 Jun 09 14:11	21° Ⅱ 20'39	001551
behind sun begin				superior conj			
behind sun end	5498 Jun 25 13:53	7° © 21'25		minimum elong	5499 Jun 09 15:01	21° Ⅱ 25'02	0°15'41
evening rise	5498 Jul 02 10:35	22°©11'51		behind sun begin	5499 Jun 09 13:53	21° Ⅱ 19'03	
	5498 Jul 06 04:49	$0^{\circ}\Omega$		behind sun end	5499 Jun 09 16:09	21° Ⅱ 31′01	
	5498 Jul 25 21:34	0° m		asc. node	5499 Jun 11 03:06	24° Ⅱ 35'50	
evening max el	5498 Jul 25 19:03	29° Ω 53'55	23°26'59		5499 Jun 13 16:00	0ಂ ತಾ	
desc. node	5498 Jul 30 09:46	3° Mp 40'40		evening rise	5499 Jun 16 21:23	6° © 50'13	
retrograde	5498 Aug 08 08:17	6° Mp 41′29			5499 Jun 29 07:19	$0^{\circ}\Omega$	
evening set	5498 Aug 12 10:10	6° m 05'03		evening max el	5499 Jul 07 10:52	10° Ω 17'36	21°50'54
min. Earth dist.	5498 Aug 19 04:36	2° m 56'14	0.55755 AU	desc. node	5499 Jul 17 06:46	16° Ω 14'12	21 000.
inferior conj	5498 Aug 21 04:05	1° Mp 46'02		retrograde	5499 Jul 20 01:05	16°Ω32'09	
3	•			•			
minimum elong	5498 Aug 20 23:05	1° m 53'27	5°05'40	evening set	5499 Jul 22 17:34	16° Ω 15'56	
	5498 Aug 24 06:31	30°R€		min. Earth dist.	5499 Jul 31 14:31	12° Ω 27'45	
morning rise	5498 Aug 29 14:25	27° Ω 52'57		inferior conj	5499 Aug 01 00:38	12° Ω 13'35	
direct	5498 Sep 01 11:36	27° Ω 32'38		minimum elong	5499 Jul 31 15:43	12° Ω 26′03	3°59'56
	5498 Sep 08 22:44	O° Mp		morning rise	5499 Aug 09 15:20	8° Ω 22'54	
morning max el	5498 Sep 11 23:50	2° m/25'53	20°18'19	direct	5499 Aug 12 22:50	7° Ω 58'48	
asc. node	5498 Sep 20 05:17	12° m 53'20		morning max el	5499 Aug 25 01:33	13° Ω 39'43	21°47'39
	5498 Sep 29 11:52	0∘ <u>⊽</u>		Č	5499 Sep 06 04:58	0° m)	
morning set	5498 Sep 30 12:37	2° ₽ 05'53		asc. node	5499 Sep 07 02:21	1° Mp 34'00	
morning set	5476 БСР 50 12.57	2 =03 33		morning set	5499 Sep 14 22:08	16° Mp 53'46	
	5498 Oct 08 03:16	17° ≏ 42'20	1°41'32	morning set	1	0∘ ʊ	
superior conj					5499 Sep 21 02:59	0 ==	
minimum elong	5498 Oct 08 04:19	17° £ 47'37	1°41'31				
max. Earth dist.	5498 Oct 13 11:23	28° £ 13'36	1.36511 AU	superior conj	5499 Sep 22 03:17	2° ≏ 07'45	1°42'58
	5498 Oct 14 09:42	0°M₊		minimum elong	5499 Sep 22 02:55	2° ≏ 05'45	1°42'58
evening rise	5498 Oct 17 08:04	5° M 27'40		max. Earth dist.	5499 Sep 26 00:12	10° ≙ 06'49	1.34763 AU
desc. node	5498 Oct 26 09:01	21°M06'08		evening rise	5499 Sep 30 09:19	18° ≏ 45'19	
	5498 Nov 01 00:24	0° ∡ ¹			5499 Oct 06 11:54	0°M₊	
evening max el	5498 Nov 22 00:23	26° ₹ 759'24	25°56'00	desc. node	5499 Oct 13 06:04	11°M21'18	
Ü	5498 Nov 25 09:30	0° ට			5499 Oct 26 03:52	0° √	
retrograde	5498 Dec 04 12:11	4° ට 06'13		evening max el	5499 Nov 04 13:08	10° ∡ ³38'25	26°50'29
evening set	5498 Dec 10 15:19	1°る34'44		retrograde	5499 Nov 17 16:19	17° 🖈 55'36	20 00 27
evening set				•			
t man at the	5498 Dec 12 07:31	30°R⊀ ⁷	0.66002 111	evening set	5499 Nov 24 07:37	15° ₹ 16'49	0.65704 133
min. Earth dist.	5498 Dec 14 22:00	26° 🖈 59'24	0.66903 AU	min. Earth dist.	5499 Nov 28 07:48	11° 🗷 16'37	
inferior conj	5498 Dec 16 08:11	25° ≯ 12'19		inferior conj	5499 Nov 30 05:35	9° ∡ 03′22	
minimum elong	5498 Dec 16 08:38		0°17'07	minimum elong	5499 Nov 30 07:47	8° ≯ 756'56	1°17'00
asc. node	5498 Dec 17 04:32	24° ₰ 09'01		asc. node	5499 Dec 04 01:34	5° ₮ 00'36	
morning rise	5498 Dec 22 02:26	19° ∡ ′21′37		morning rise	5499 Dec 06 08:54	3° х 23′58	
direct	5498 Dec 25 07:15	18° ≯ 23'00		direct	5499 Dec 09 04:24	2° ∡ ¹40'25	
morning max el	5499 Jan 01 03:19	22° ∡ ¹08'55	18°55'41	morning max el	5499 Dec 15 16:55	6° ⊀ 11'15	18°16'28
<i>3</i>	5499 Jan 07 12:40	0°る	-	<i>5</i> •••• ••	5500 Jan 01 02:48	0° る	- ~
	0, 12.10						

morning set	5500 Jan 03 19:31	4° පි 21'51		morning max el	5500 Nov 29 09:29	20°M10'38	17°54'15
desc. node	5500 Jan 09 05:18	13° る 04'40			5500 Dec 06 19:00	0°⊀	
				morning set	5500 Dec 16 11:19	16° ₰ 03'58	
superior conj	5500 Jan 19 01:19	28° る 40'37			5500 Dec 24 19:01	0°₹	
minimum elong	5500 Jan 18 17:31	28° る 09'56	1°03'57	desc. node	5500 Dec 27 02:20	3° る 46'55	
	5500 Jan 19 21:32	0° ≈				_	
max. Earth dist.	5500 Jan 20 21:50	1°≈35'21	1.45332 AU	superior conj	5500 Dec 29 17:20	8° ろ 02'30	
evening rise	5500 Feb 04 05:18	23°≈57'43		minimum elong	5500 Dec 29 15:11	7°る53'50	
	5500 Feb 08 02:00	0° ∀	0.7	max. Earth dist.	5501 Jan 03 16:39		1.44782 AU
greatest brilliancy	5500 Feb 15 14:18	11°) 38'46	-0.7m		5501 Jan 12 15:58	0° ≈	
evening max el	5500 Feb 27 20:04	28°) 1 4'47 0° °	19°17'53	evening rise	5501 Jan 14 18:35	3°≈14'54	-0.6m
asc. node	5500 Mar 01 17:38 5500 Mar 02 00:51	0° Υ 14'26		greatest brilliancy	5501 Jan 29 10:04 5501 Feb 01 15:35	25° ≈ 20'37 0° 米	-0.6m
retrograde	5500 Mar 06 21:44	0 1 14 20 2° Υ 16'27		evening max el	5501 Feb 10 23:47	0 X 11° ¥ 49'11	20°14'44
evening set	5500 Mar 10 09:07	1° Υ 05'55		asc. node	5501 Feb 10 23:47 5501 Feb 16 21:53	16° H 04'28	20 14 44
evening set	5500 Mar 11 18:13	30°R ₩		retrograde	5501 Feb 18 19:53	16° X 24'00	
inferior conj	5500 Mar 15 20:57	25° ₩ 14'48	3°23'10	evening set	5501 Feb 22 15:45	14°) 59'02	
minimum elong	5500 Mar 15 19:32	25°) 19'21	3°23'01	inferior conj	5501 Feb 28 00:38	8° H 54'25	3°02'40
min. Earth dist.	5500 Mar 17 05:47	23°\(\frac{1}{2}21\)	0.66419 AU	minimum elong	5501 Feb 27 22:30	9° H 01'40	3°02'15
morning rise	5500 Mar 21 05:37	18° ¥ 59'36	0.00117110	min. Earth dist.	5501 Feb 28 19:24	7°) € 50'48	0.67409 AU
direct	5500 Mar 27 12:21	16°) 12'43		morning rise	5501 Mar 05 05:02	2° ₩ 39'51	0.07.107.110
desc. node	5500 Apr 07 04:32	21°) 51'15		direct	5501 Mar 10 23:00	0°) €05'41	
morning max el	5500 Apr 09 03:09	23° ¥ 43'55	26°05'34	morning max el	5501 Mar 22 11:53	6° ¥ 59'50	24°43'45
5 5	5500 Apr 14 17:23	0° Υ		desc. node	5501 Mar 25 01:35	9°) €44'33	
	5500 May 05 09:15	0°8			5501 Apr 09 09:35	$0^{\circ}\mathbf{\Upsilon}$	
morning set	5500 May 15 06:29	17° 8 20'15		morning set	5501 Apr 27 12:26	29° Ƴ 17'07	
max. Earth dist.	5500 May 19 04:20	24° 8 45'03	1.35278 AU	Č	5501 Apr 27 22:07	0°8	
	5500 May 21 20:29	$\Pi^{\circ}0$		max. Earth dist.	5501 May 01 03:11	5° 8 47'12	1.37228 AU
superior conj	5500 May 24 09:53	5° Ⅱ 08'48	-0°45'46	superior conj	5501 May 07 19:10	18° 8 23'21	-1°15'25
minimum elong	5500 May 24 12:25	5° Ⅱ 21'44	0°45'18	minimum elong	5501 May 07 23:22	18° 8 43'47	1°14'46
asc. node	5500 May 29 00:09	14° Ⅱ 36′26			5501 May 13 15:45	Π $^{\circ}0$	
evening rise	5500 Jun 01 05:11	21° Ⅱ 15′01		asc. node	5501 May 15 21:12	4° Ⅲ 27'56	
	5500 Jun 05 13:45	0ංම		evening rise	5501 May 16 07:36	5° Ⅱ 19'55	
evening max el	5500 Jun 19 13:23	21° © 10'50	20°26'57		5501 May 30 16:09	0_{\circ} වෙ	
retrograde	5500 Jun 30 13:48	26°934'51		evening max el	5501 Jun 02 04:35	2° 5 46'43	19°21'37
evening set	5500 Jul 02 13:24	26°925'05		retrograde	5501 Jun 11 11:24	7° © 19'09	
desc. node	5500 Jul 04 03:48	26° © 03'46		evening set	5501 Jun 13 10:08	7° © 08'02	
inferior conj	5500 Jul 11 18:22	22° © 27'47		desc. node	5501 Jun 21 00:49	3° © 37'39	
minimum elong	5500 Jul 11 12:05	22°536'54		inferior conj	5501 Jun 21 23:41	3°500'33	
min. Earth dist.	5500 Jul 13 02:03	21°541'47	0.54921 AU	minimum elong	5501 Jun 21 22:57	3°501'46	
morning rise	5500 Jul 20 09:48	18°5519'01		min. Earth dist.	5501 Jun 24 15:52	1°516'06	0.55926 AU
direct	5500 Jul 24 08:42	17°9545'15	22020150		5501 Jun 26 18:27	30°RⅡ 200Ⅲ10154	
morning max el	5500 Aug 06 18:04	24°9514'58	23°29'59	morning rise	5501 Jun 30 08:54	28° Ⅱ 18'54	
aga mada	5500 Aug 12 00:07	0° Ω		direct	5501 Jul 05 04:50	27° Ⅱ 25'48 0° ©	
asc. node	5500 Aug 24 23:24 5500 Aug 29 13:26	20° Ω 45'19 0° m		morning max el	5501 Jul 13 11:25 5501 Jul 19 07:25	0°93 4°934'31	25012114
morning set	5500 Aug 30 09:33	1° m)45'46		morning max cr	5501 Aug 06 11:42	0°Ω	23 12 14
morning set	3300 Aug 30 07.33	1 11/13 10		asc. node	5501 Aug 10 11:42 5501 Aug 11 20:28	10° Ω 19'23	
superior conj	5500 Sep 06 09:26	16° m 49'43	1°37'53	morning set	5501 Aug 11 20:20 5501 Aug 14 21:12	16° Ω 37'08	
minimum elong	5500 Sep 06 07:58	16° Mp 41'50	1°37'47	morning set	5501 Aug 21 00:56	0°m	
max. Earth dist.	5500 Sep 08 21:43		1.33410 AU		3301 Aug 21 00.30	∀ 11 / ₂	
	5500 Sep 12 15:53	0∘ ಹ		superior conj	5501 Aug 21 19:18	1° m 40'49	1°27'11
evening rise	5500 Sep 13 23:17	2° £ 38'11		minimum elong	5501 Aug 21 17:12	1° m)29'14	
	5500 Sep 29 08:08	0° M ,		max. Earth dist.	5501 Aug 23 03:06	4° m/ 34'42	1.32489 AU
desc. node	5500 Sep 30 03:05	1°ML13'39		evening rise	5501 Aug 28 22:27	16° m 56'25	
evening max el	5500 Oct 18 01:23	24°ML02'16	27°22'11	· ·	5501 Sep 04 14:19	0° ق	
•	5500 Oct 26 04:53	0° ∡ ¹		desc. node	5501 Sep 17 00:06	20° ≏ 33'42	
retrograde	5500 Oct 31 14:27	1° ∡ ′20′39			5501 Sep 24 01:12	0° M ₊	
	5500 Nov 05 14:59	30°RM		evening max el	5501 Sep 30 11:11	6°M57'55	27°24'40
evening set	5500 Nov 07 14:49	28°M42'19		retrograde	5501 Oct 14 05:37	14°ML12'19	
min. Earth dist.	5500 Nov 11 09:27	25°M15'58	0.64318 AU	evening set	5501 Oct 21 09:41	11°M44'30	
inferior conj	5500 Nov 13 19:05	22°M43'13	-2°21'38	min. Earth dist.	5501 Oct 25 01:03	8°M47'26	0.62542 AU
minimum elong	5500 Nov 13 23:14	22°M32'10	2°20'01	inferior conj	5501 Oct 27 21:48	6°ML04'45	-3°25'19
morning rise	5500 Nov 20 09:02	17°ML18'06		minimum elong	5501 Oct 28 03:39	5°M50'53	3°23'23
asc. node	5500 Nov 20 22:37	17° M 05'17		morning rise	5501 Nov 03 23:21	0°M57'23	
direct	5500 Nov 22 21:37	16°M45'39		direct	5501 Nov 06 07:46	0°M32'22	

asc. node	5501 Nov 07 19:41	0° M .42'48		morning max el	5502 Oct 27 15:14	17° ≙ 30'47	18°04'25
morning max el	5501 Nov 13 01:59	3°M59'46	17°49'51		5502 Nov 05 12:42	0° M	
morning set	5501 Nov 29 01:56	28°M51'41		morning set	5502 Nov 12 09:03	12°M26'14	
	5501 Nov 29 17:18	0° ∡ ¹			5502 Nov 21 22:35	0° ∡ ¹	
superior conj	5501 Dec 10 10:10	18° ∡ ³37'29	0°25'03	superior conj	5502 Nov 22 04:52	0° ≯ 128'00	0°59'20
minimum elong	5501 Dec 10 12:30	18° ∡ 747'21	0°24'43	minimum elong	5502 Nov 22 08:44	0° ∡¹ 45'12	0°58'50
desc. node	5501 Dec 13 23:21	24° 渘 ³33′05		max. Earth dist.	5502 Nov 29 20:38	13° ∡ ¹41'11	1.41815 AU
	5501 Dec 17 07:21	0°ප		desc. node	5502 Nov 30 20:22	15° ∡ ¹20'06	
max. Earth dist.	5501 Dec 17 09:01	0° ට 06'45	1.43563 AU	evening rise	5502 Dec 05 06:43	22° ⋌ ¹33'59	
evening rise	5501 Dec 25 06:01	12° る 34'54			5502 Dec 09 23:47	0°ප	
	5502 Jan 05 18:30	0° ≈			5502 Dec 30 21:24	0° ≈	
evening max el	5502 Jan 24 21:59	25° ≈ 24'29	21°23'56	evening max el	5503 Jan 07 15:12	9° ≈ 01'53	22°41'13
	5502 Jan 30 22:22	0° ∀		retrograde	5503 Jan 17 13:36	14° ≈ 55'55	
retrograde	5502 Feb 02 17:41	0°) 38′12		asc. node	5503 Jan 21 15:56	13° ≈ 29'02	
asc. node	5502 Feb 03 18:55	0°) 32′18		evening set	5503 Jan 22 06:52	13° ≈ 00'02	
	5502 Feb 05 09:02	30° ₹ ≈		inferior conj	5503 Jan 27 15:38	6° ≈ 36'54	1°53'51
evening set	5502 Feb 06 23:31	28° ≈ 57'58		minimum elong	5503 Jan 27 13:27	6° ≈ 44'28	1°53'06
inferior conj	5502 Feb 12 07:31	22° ≈ 42'26	2°32'25	min. Earth dist.	5503 Jan 27 09:57	6°≈56'35	0.68155 AU
minimum elong	5502 Feb 12 05:07	22° ≈ 50'44	2°31'45	morning rise	5503 Feb 01 19:57	0° ≈ 28'06	
min. Earth dist.	5502 Feb 12 13:30	22° ≈ 21'41	0.67981 AU		5503 Feb 02 10:25	30°₹ ⋜	
morning rise	5502 Feb 17 10:33	16° ≈ 30'05		direct	5503 Feb 06 08:57	28° る 36'07	
direct	5502 Feb 22 14:08	14° ≈ 15′28			5503 Feb 10 16:42	0° ≈	
morning max el	5502 Mar 04 20:58	20° ≈ 21'48	23°14'39	morning max el	5503 Feb 15 09:49	3°≈52'39	21°47'37
desc. node	5502 Mar 11 22:35	28° ≈ 31'26		desc. node	5503 Feb 26 19:37	17° ≈ 57'20	
	5502 Mar 13 02:11	0° ∀			5503 Mar 07 04:43	0° ∀	
	5502 Apr 02 14:58	$0^{\circ}\mathbf{\Upsilon}$		morning set	5503 Mar 19 19:53	19° ∺ 27'32	
morning set	5502 Apr 08 18:19	10° Y 02′23		max. Earth dist.	5503 Mar 25 21:55	29° 升 22'44	1.41565 AU
max. Earth dist.	5502 Apr 12 22:44	17° Ƴ 10'51	1.39413 AU		5503 Mar 26 06:52	$0^{\circ}\mathbf{\Upsilon}$	
	5502 Apr 20 02:29	$0^{\circ}S$					
				superior conj	5503 Apr 02 13:36	12° Y 27′10	
superior conj	5502 Apr 20 13:59	0° 8 53'08		minimum elong	5503 Apr 02 17:40	12° Y 45′00	2°01'39
minimum elong	5502 Apr 20 19:06	1° 8 16'48	1°41'34		5503 Apr 12 06:49	0° 8	
evening rise	5502 Apr 30 01:40	18° 8 56'08		evening rise	5503 Apr 13 07:49	1° 8 55'11	
asc. node	5502 May 02 18:13	24° 8 04'53		asc. node	5503 Apr 19 15:13	13° 8 22'01	
	5502 May 05 22:45	$\Pi^{\circ 0}$		evening max el	5503 Apr 29 14:53	27° 8 48'01	18°12'02
evening max el	5502 May 16 06:13	15° Ⅱ 01'49	18°36'43		5503 May 02 08:44	$\Pi^{\circ 0}$	
retrograde	5502 May 24 03:09	18° Ⅱ 54'56		retrograde	5503 May 06 13:34	1° Ⅱ 17'50	
evening set	5502 May 26 07:41	18° Ⅱ 37'56		evening set	5503 May 09 01:01	0° ∏ 51'49	
inferior conj	5502 Jun 03 01:13	14° Ⅱ 11'42			5503 May 10 22:10	30° ₹8	
minimum elong	5502 Jun 03 04:00	14° Ⅱ 06′21		inferior conj	5503 May 16 00:08	26° 8 05'08	
min. Earth dist.	5502 Jun 06 09:25	11° Ⅱ 39'28	0.57659 AU	minimum elong	5503 May 16 03:30	25° 8 57'34	2°31'19
desc. node	5502 Jun 07 21:50	10° Ⅱ 36′08		min. Earth dist.	5503 May 19 09:07	23° 8 05'32	0.59790 AU
morning rise	5502 Jun 10 21:03	8° Ⅱ 54'26		morning rise	5503 May 23 03:18	20° 8 20'05	
direct	5502 Jun 16 14:48	7° Ⅱ 31'56		desc. node	5503 May 25 18:50	19° 8 03'53	
morning max el	5502 Jun 30 23:51	15° Ⅱ 07'28	26°38'20	direct	5503 May 29 13:54	18° 8 23'20	
	5502 Jul 12 23:32	0°©		morning max el	5503 Jun 12 22:37	26° 8 15'54	27°34'22
asc. node	5502 Jul 29 17:30	0° Ω 09'23			5503 Jun 16 10:43	0° I I	
	5502 Jul 29 15:42	0° Ω			5503 Jul 06 11:15	0°95	
morning set	5502 Jul 30 07:29	1° £ 22'53		morning set	5503 Jul 14 14:40	15°957'30	
gunorier ee	5500 Aug 06 06:55	16° Ω 34'37	1011122	asc. node	5503 Jul 16 14:30 5503 Jul 21 00:22	20°509'48	1 21012 411
superior conj	5502 Aug 06 06:55			max. Earth dist.		29°545'17	1.31912 AU
minimum elong	5502 Aug 06 04:37	16° Ω 21'56	1°11'10		5503 Jul 21 03:02	0 ° Ω	
max. Earth dist.	5502 Aug 12 10:40	17° Ω 09'30 0° m	1.31990 AU	cuparior coni	5503 Inl 21 10-20	1° Ω 25'13	0°51'34
avanina riaa	5502 Aug 12 10:40			superior conj	5503 Jul 21 18:29 5503 Jul 21 16:28	1° Ω 14'08	0°51'34 0°51'10
evening rise	5502 Aug 13 03:58	1° Mp 31'28		minimum elong			0 31 10
daga mada	5502 Aug 28 13:59	0∘ ∵ 006133		evening rise	5503 Jul 28 13:30	16° Ω 15'55	
desc. node	5502 Sep 03 21:07	9° £ 08'32	26052156	daga mada	5503 Aug 04 08:32	0°M) 26°M-20124	
evening max el	5502 Sep 12 15:36	19° £ 11'57	20 33 30	desc. node	5503 Aug 21 18:08	26° Mp 39′24	
retrograde	5502 Sep 26 13:01	26° £ 22'01		avanina ma1	5503 Aug 24 21:26	0° Ω	25050144
evening set	5502 Oct 03 12:03	24° £ 16'28	0.60522.411	evening max el	5503 Aug 25 12:26	0° £ 36'17	23 30 44
min. Earth dist.	5502 Oct 07 05:44	21° Ω 38'24		retrograde	5503 Sep 08 11:26	7° Ω 42'42	
inferior conj	5502 Oct 10 10:23	18° Ω 59'17		evening set	5503 Sep 14 16:59	6° £ 10′28	0.50461 411
minimum elong	5502 Oct 10 16:46	18° Ω 46'00	4°21'51	min. Earth dist.	5503 Sep 19 00:46	3° £ 34'35	
morning rise	5502 Oct 17 23:30	14° £ 13'14		inferior conj	5503 Sep 22 05:17	1° £ 16'34	
direct	5502 Oct 20 06:57	13° £ 52'35		minimum elong	5503 Sep 22 09:37	1° £ 08'42	5~05'45
asc. node	5502 Oct 25 16:43	15° £ 51'31			5503 Sep 24 00:27	30°R Mp	

	5502 8 30 04 34	260m-52142			55046 22 19 22	120m. 50106	10025151
morning rise	5503 Sep 30 04:34	26° m 53'42		morning max el	5504 Sep 22 18:23	12° m 59'06	19°35'51
direct	5503 Oct 02 14:30	26° m 34'55		asc. node	5504 Sep 28 10:48	19° m 47'49	
	5503 Oct 10 07:10	0∘ ⊽			5504 Oct 04 14:11	0∘ ⊽	
morning max el	5503 Oct 10 21:48	0° ჲ 33'44	18°39'19	morning set	5504 Oct 10 06:01	11° ≏ 00'31	
asc. node	5503 Oct 12 13:45	2° ≏ 18'09					
morning set	5503 Oct 27 03:36	26° ≏ 32'22		superior conj	5504 Oct 18 04:29	26° ≙ 57'23	1°37'18
	5503 Oct 28 22:16	0° M		minimum elong	5504 Oct 18 06:26	27° ≏ 06'58	1°37'12
					5504 Oct 19 17:47	0° M.	
superior conj	5503 Nov 04 20:44	13° ™ 19'37	1°23'11	max. Earth dist.	5504 Oct 24 07:41	8°M41'58	1.37654 AU
minimum elong	5503 Nov 05 00:05	13°M35'19	1°22'52	evening rise	5504 Oct 28 01:47	15°M30'36	
max. Earth dist.	5503 Nov 12 03:00	26°M30'51	1.39757 AU	desc. node	5504 Nov 03 14:25	26° ™ 40'19	
	5503 Nov 14 03:13	0° ∡ 7			5504 Nov 05 15:29	0° ∡ 7	
evening rise	5503 Nov 16 04:58	3° х 31'35			5504 Nov 26 20:27	0°ਰ	
desc. node	5503 Nov 17 17:24	6° х 03'47		evening max el	5504 Dec 02 17:49	6° පි 26'01	25°17'10
desc. flode	5503 Dec 03 05:08	0 メ ・03 47		-		13° පි 22'40	23 17 10
			24001112	retrograde	5504 Dec 14 18:36		
evening max el	5503 Dec 21 05:05	22°る42'11	24°01'13	evening set	5504 Dec 20 13:54	10°る58'00	0.65204.433
retrograde	5504 Jan 01 06:15	29° る 12'16		min. Earth dist.	5504 Dec 25 00:40	6° る 02'11	0.67384 AU
evening set	5504 Jan 06 12:11	27° る 01'11		asc. node	5504 Dec 25 10:01	5° る 31'59	
asc. node	5504 Jan 08 12:57	24° る 59'01		inferior conj	5504 Dec 26 04:18	4° る 32'33	0°15'29
inferior conj	5504 Jan 11 23:09	20° る 34'32	1°07'55	minimum elong	5504 Dec 26 03:54	4° る 33'49	0°15'20
minimum elong	5504 Jan 11 21:38	20°る39'40	1°07'20	transit middle	5504 Dec 26 03:54	4° る 33'49	0°15'20
min. Earth dist.	5504 Jan 11 06:26	21° る 31'10	0.67948 AU	transit begin	5504 Dec 26 03:01	4° る 36'41	
morning rise	5504 Jan 17 07:08	14° る 30'55		transit end	5504 Dec 26 04:47	4° る 30'56	
direct	5504 Jan 21 06:24	13° る 01'29			5504 Dec 30 01:06	30°₽ ⋌	
morning max el	5504 Jan 29 05:27	17° る 34'27	20°29'48	morning rise	5504 Dec 31 18:10	28° х 36′11	
8	5504 Feb 08 05:22	0° ≈		direct	5505 Jan 04 05:13	27° ₹ 27'11	
desc. node	5504 Feb 13 16:38	7°≈51'09		direct	5505 Jan 09 19:10	0°ਰ	
morning set	5504 Feb 26 21:37	27°≈49'44		morning max el	5505 Jan 11 09:00	0 3 1° る 27'04	19°25'31
morning set	5504 Feb 28 07:08	0°) €		greatest brilliancy	5505 Jan 24 12:34	18° る 55'09	-0.7m
E d E d			1 42402 ATT				-0.7111
max. Earth dist.	5504 Mar 07 04:03	12°) €28'05	1.43402 AU	desc. node	5505 Jan 30 13:40	28° る 05'15	
					5505 Jan 31 19:36	0° ≈	
superior conj	5504 Mar 13 13:25	22° 升 55'52		morning set	5505 Feb 04 19:35	6°≈09'51	
minimum elong	5504 Mar 13 13:12	22° 升 54'59	2°09'22	max. Earth dist.	5505 Feb 17 17:12	26° ≈ 18′09	1.44703 AU
	5504 Mar 17 18:12	0 ° Υ			5505 Feb 20 01:11	0° ∀	
evening rise	5504 Mar 25 21:46	14° Ƴ 07'28					
	5504 Apr 04 02:59	B_{0}		superior conj	5505 Feb 21 12:04	2° 升 18′59	-1°59'06
asc. node	5504 Apr 05 12:14	2° 8 12'45		minimum elong	5505 Feb 21 05:27	1°) 52′35	1°58'43
evening max el	5504 Apr 12 03:11	10° 8 56'38	18°06'54	evening rise	5505 Mar 07 15:06	25°) 24'35	
retrograde	5504 Apr 18 14:48	14° 8 18'28		· ·	5505 Mar 10 09:01	$_{0}$ ° γ	
evening set	5504 Apr 21 08:53	13° 8 41'19		asc. node	5505 Mar 23 09:16	20° Y 28'16	
inferior conj	5504 Apr 27 17:21	8° 8 34'53	3°12'43	evening max el	5505 Mar 26 16:02	24° Υ 19'05	18°20'33
minimum elong	5504 Apr 27 19:36		3°12'22	•		24 1 17 03	10 20 33
_	JJU4 ADI 4/ 17.JU	0 0200		ratrograda	5505 Apr 02 02:25	2708/16/17	
min. Earth dist.	-	_		retrograde	5505 Apr 02 02:25	27° Υ 46'47	
	5504 Apr 30 16:56	5° 8 32'46	0.61988 AU	evening set	5505 Apr 05 02:55	26° Ƴ 57'12	2020105
morning rise	5504 Apr 30 16:56 5504 May 04 04:36	5° 8 32'46 2° 8 32'56		evening set inferior conj	5505 Apr 05 02:55 5505 Apr 11 00:43	26° Υ 57'12 21° Υ 32'04	3°30'05
direct	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55	5°\dagger 32'46 2°\dagger 32'56 0°\dagger 06'22		evening set inferior conj minimum elong	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22	26° Y 57'12 21° Y 32'04 21° Y 30'11	3°30'02
direct desc. node	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51	5°\dagger32'46 2°\dagger32'56 0°\dagger306'22 0°\dagger307'41	0.61988 AU	evening set inferior conj minimum elong min. Earth dist.	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51	26°\capp^57'12 21°\capp^32'04 21°\capp^30'11 18°\capp^49'14	
direct	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55	5°\dagger 32'46 2°\dagger 32'56 0°\dagger 306'22 0°\dagger 307'41 8°\dagger 306'58	0.61988 AU	evening set inferior conj minimum elong	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22	26° Y 57'12 21° Y 32'04 21° Y 30'11 18° Y 49'14 15° Y 21'31	3°30'02
direct desc. node	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55	5°\delta32'46 2°\delta32'56 0°\delta06'22 0°\delta07'41 8°\delta06'58 0°\delta	0.61988 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41	3°30'02
direct desc. node	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28	5°\dagger 32'46 2°\dagger 32'56 0°\dagger 306'22 0°\dagger 307'41 8°\dagger 306'58	0.61988 AU	evening set inferior conj minimum elong min. Earth dist. morning rise	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55	26° Y 57'12 21° Y 32'04 21° Y 30'11 18° Y 49'14 15° Y 21'31	3°30'02
direct desc. node morning max el	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55	5°\delta32'46 2°\delta32'56 0°\delta06'22 0°\delta07'41 8°\delta06'58 0°\delta	0.61988 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41	3°30'02 0.63999 AU
direct desc. node morning max el	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51	5°\delta32'46 2°\delta32'56 0°\delta06'22 0°\delta07'41 8°\delta06'58 0°\pi 0°\square\$14'57	0.61988 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05	3°30'02 0.63999 AU
direct desc. node morning max el morning set asc. node	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31	5°\delta 32'46 2°\delta 32'56 0°\delta 06'22 0°\delta 07'41 8°\delta 06'58 0°\delta 0°\delta 14'57 0°\delta 10'\delta 16'08	0.61988 AU 27°53'18	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B	3°30'02 0.63999 AU
direct desc. node morning max el morning set	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55	5°\delta32'46 2°\delta32'56 0°\delta06'22 0°\delta07'41 8°\delta06'58 0°\delta 0°\delta14'57 0°\delta	0.61988 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B	3°30'02 0.63999 AU
direct desc. node morning max el morning set asc. node max. Earth dist.	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48	0.61988 AU 27°53'18 1.32265 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°I06'31	3°30'02 0.63999 AU 27°35'12
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48	0.61988 AU 27°53'18 1.32265 AU 0°27'46	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B	3°30'02 0.63999 AU
direct desc. node morning max el morning set asc. node max. Earth dist.	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23	0.61988 AU 27°53'18 1.32265 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03	26°Y57'12 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°II06'31 24°II10'19	3°30'02 0.63999 AU 27°35'12 1.33070 AU
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09	5°\delta 32'46 2°\delta 32'56 0°\delta 06'22 0°\delta 06'58 0°\delta 0°\sigma 14'57 0°\sigma 10°\sigma 16'08 12°\sigma 09'48 16°\sigma 07'12 16°\sigma 00'23 0°\delta	0.61988 AU 27°53'18 1.32265 AU 0°27'46	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°B 14°I06'31 24°I10'19	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°\$\Omega\$ 1°\Omega\$03'31	0.61988 AU 27°53'18 1.32265 AU 0°27'46	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	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°II 14°II06'31 24°II10'19 0°S33'21 0°S33'09	3°30'02 0.63999 AU 27°35'12 1.33070 AU
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°\$14'57 0°\$ 10°\$16'08 12°\$09'48 16°\$07'12 16°\$00'23 0°\$\alpha\$ 1°\$\alpha\$03'31 0°\$\mathbf{m}\$	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30	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 behind sun begin	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:25 5505 Jun 19 10:23 5505 Jun 19 05:00	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°II06'31 24°II10'19 0°S33'21 0°S33'09 0°S04'24	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°11 0°914'57 0°9 10°916'08 12°909'48 16°900'23 0°0 1°003'31 0°10 11°1017'28	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30	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	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:23 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 15:46	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°I06'31 24°I10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°\$14'57 0°\$ 10°\$16'08 12°\$09'48 16°\$07'12 16°\$00'23 0°\$\alpha\$ 1°\$\alpha\$03'31 0°\$\mathbf{m}\$	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30	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 behind sun begin	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:25 5505 Jun 19 10:23 5505 Jun 19 05:00	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°I06'31 24°I10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°11 0°914'57 0°9 10°916'08 12°909'48 16°900'23 0°0 1°003'31 0°10 11°1017'28	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30	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 behind sun begin behind sun end	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:23 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 15:46	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°I06'31 24°I10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35 5504 Aug 07 15:08	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°11 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°8 1°803'31 0°10 11°10 17'28 12°10 17'28 12°10 17'28	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30	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 behind sun begin behind sun end	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:23 5505 Jun 19 05:00 5505 Jun 19 15:46 5505 Jun 19 08:33	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°I06'31 24°I10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35 5504 Aug 07 15:08 5504 Aug 19 22:40 5504 Aug 24 21:27	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°11 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°10 10°10'23 10	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30	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 behind sun begin behind sun end asc. node	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:23 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 08:33 5505 Jun 19 04:11	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°I 14°I06'31 24°I10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 03:03 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 27 20:18 5504 Jul 27 20:18 5504 Aug 06 02:35 5504 Aug 07 15:08 5504 Aug 19 22:40 5504 Aug 30 13:35	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°A 1°A03'31 0°ID 11°ID 17'28 12°ID 41'10 18°ID 15'32 17°ID 20'58	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30 24°23'04 0.56600 AU	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 behind sun begin behind sun end asc. node evening rise	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:23 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 08:33 5505 Jun 19 04:11 5505 Jun 26 12:38	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°B 14°B06'31 24°B10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18 0°S	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49 0°00'47
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35 5504 Aug 07 15:08 5504 Aug 19 22:40 5504 Aug 24 21:27 5504 Aug 30 13:35 5504 Sep 02 04:12	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°A 1°A03'31 0°m 11°m 17'28 12°m 41'10 18°m 15'32 17°m 20'58 14°m 28'22 12°m 49'35	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30 24°23'04 0.56600 AU -5°19'10	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 behind sun begin behind sun end asc. node evening rise evening max el	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:25 5505 Jun 19 02:3 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 08:33 5505 Jun 19 04:11 5505 Jun 26 12:38 5505 Jul 03 14:37 5505 Jul 18 15:30	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°II 14°II06'31 24°II10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18 0°S 15°S47'06 0°A 21°A38'03	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49 0°00'47
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35 5504 Aug 07 15:08 5504 Aug 19 22:40 5504 Aug 24 21:27 5504 Aug 30 13:35 5504 Sep 02 04:12 5504 Sep 02 03:04	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°A 1°A03'31 0°ID 11°ID 17'28 12°ID 41'10 18°ID 15'32 17°ID 20'58 14°ID 28'22 12°ID 49'35 12°ID 51'22	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30 24°23'04 0.56600 AU -5°19'10	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 behind sun begin behind sun end asc. node evening rise evening max el desc. node	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:25 5505 Jun 19 02:3 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 08:33 5505 Jun 19 04:11 5505 Jun 26 12:38 5505 Jul 03 14:37 5505 Jul 18 15:30 5505 Jul 25 12:10	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°II 14°I06'31 24°I10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18 0°S 15°S47'06 0°A 21°A38'03 26°A40'29	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49 0°00'47
direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	5504 Apr 30 16:56 5504 May 04 04:36 5504 May 10 23:55 5504 May 11 15:51 5504 May 25 03:28 5504 Jun 10 21:55 5504 Jun 27 16:51 5504 Jun 27 13:55 5504 Jul 02 11:31 5504 Jul 03 08:37 5504 Jul 05 04:18 5504 Jul 05 03:03 5504 Jul 11 13:09 5504 Jul 12 01:02 5504 Jul 27 20:18 5504 Aug 06 02:35 5504 Aug 07 15:08 5504 Aug 19 22:40 5504 Aug 24 21:27 5504 Aug 30 13:35 5504 Sep 02 04:12	5°832'46 2°832'56 0°806'22 0°807'41 8°806'58 0°II 0°914'57 0°9 10°916'08 12°909'48 16°907'12 16°900'23 0°A 1°A03'31 0°m 11°m 17'28 12°m 41'10 18°m 15'32 17°m 20'58 14°m 28'22 12°m 49'35	0.61988 AU 27°53'18 1.32265 AU 0°27'46 0°27'30 24°23'04 0.56600 AU -5°19'10	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 behind sun begin behind sun end asc. node evening rise evening max el	5505 Apr 05 02:55 5505 Apr 11 00:43 5505 Apr 11 01:22 5505 Apr 13 09:51 5505 Apr 16 22:55 5505 Apr 23 18:26 5505 Apr 28 12:54 5505 May 07 12:07 5505 May 15 14:39 5505 Jun 03 23:39 5505 Jun 11 11:28 5505 Jun 16 10:03 5505 Jun 19 10:25 5505 Jun 19 02:3 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 05:00 5505 Jun 19 08:33 5505 Jun 19 04:11 5505 Jun 26 12:38 5505 Jul 03 14:37 5505 Jul 18 15:30	26°Y57'12 21°Y32'04 21°Y30'11 18°Y49'14 15°Y21'31 12°Y36'41 13°Y45'40 20°Y35'05 0°B 0°II 14°II06'31 24°II10'19 0°S33'21 0°S33'09 0°S04'24 1°S01'56 0°S23'18 0°S 15°S47'06 0°A 21°A38'03	3°30'02 0.63999 AU 27°35'12 1.33070 AU 0°00'49 0°00'47

min Earth diat	5505 Aug 11 22:26	240 0 22157	0.55277 AU	avanina aat	5506 Jul 14 17:22	7° Ω 53'12	
min. Earth dist.	5505 Aug 11 23:36			evening set	5506 Jul 14 17:33		2020121
inferior conj	5505 Aug 13 08:18	23° Ω 37'12		inferior conj	5506 Jul 24 01:46	3° £ 54'53	
minimum elong	5505 Aug 13 00:56	23° Ω 47'45	4*44'14	minimum elong	5506 Jul 23 17:14	4° Ω 06'51	3°17'53
morning rise	5505 Aug 21 20:40	19° Ω 47'03		min. Earth dist.	5506 Jul 24 09:40	3° Ω 43'47	0.54779 AU
direct	5505 Aug 24 22:00	19° Ω 25'24		morning rise	5506 Aug 01 17:30	29° © 59'19	
morning max el	5505 Sep 05 02:47	24° Ω 38'30	20°54'04		5506 Aug 01 16:26	30° ₹ 🥯	
	5505 Sep 09 21:51	0° m y		direct	5506 Aug 05 07:05	29° © 31'58	
asc. node	5505 Sep 15 07:51	8° Mp 05'52			5506 Aug 08 19:36	$0^{\circ}\Omega$	
morning set	5505 Sep 24 13:33	25° m 42'47		morning max el	5506 Aug 17 23:50	5° Ω 33'25	22°30'13
	5505 Sep 26 15:05	0∘ ত		asc. node	5506 Sep 02 04:54	27° Ω 00'43	
					5506 Sep 03 18:52	0° m	
superior conj	5505 Oct 01 23:35	11° ≏ 08'03	1°43'00	morning set	5506 Sep 09 00:04	10° m 33'13	
minimum elong	5505 Oct 01 23:59	11° ≏ 10′09	1°43'00				
max. Earth dist.	5505 Oct 06 16:26	20° £ 35'43	1.35729 AU	superior conj	5506 Sep 16 02:30	25° Mp 41'19	1°41'33
evening rise	5505 Oct 10 17:50	28° ≏ 22'28		minimum elong	5506 Sep 16 01:37	25° m 36'37	1°41'30
•	5505 Oct 11 14:50	0°M			5506 Sep 18 03:35	0∘ ত	
desc. node	5505 Oct 21 11:27	17° M .04'54		max. Earth dist.	5506 Sep 19 09:12	2° £ 33'57	1.34141 AU
	5505 Oct 29 22:00	0° × 7		evening rise	5506 Sep 24 00:56	11° ≏ 56'10	
evening max el	5505 Nov 15 06:42	20° × ⁷ 09'41	26°21'40	evening rise	5506 Oct 03 22:52	0°M	
retrograde	5505 Nov 28 01:45	27°×721'36	20 21 40	desc. node	5506 Oct 08 08:29	7°M11'26	
evening set	5505 Dec 04 10:14	24° × ⁷ 46'37		desc. Hode	5506 Oct 25 04:39	0° √	
min. Earth dist.		20° × 26'03	0.66467 ATT	avanina may al			27907!12
	5505 Dec 08 14:12		0.66467 AU	evening max el	5506 Oct 28 19:30	3° х 43′53	2/-0/13
inferior conj	5505 Dec 10 05:08	18° ₹ 27'30		retrograde	5506 Nov 11 03:09	11°×701'42	
minimum elong	5505 Dec 10 06:18	18° ∡ 23'58	0°42'01	evening set	5506 Nov 17 22:58	8° ≯ 22'01	
asc. node	5505 Dec 12 07:04	16° ≯ 00′28		min. Earth dist.	5506 Nov 21 20:39	4° ≯ 36'43	0.65202 AU
morning rise	5505 Dec 16 03:00	12° ≯ 41'01		inferior conj	5506 Nov 23 23:29	2° ⋌ 14'24	
direct	5505 Dec 19 03:40	11° ₹ ′49′08		minimum elong	5506 Nov 24 02:31	2° ≯ 05'53	1°43'29
morning max el	5505 Dec 25 19:32	15° ∡ ¹27'19	18°36'57		5506 Nov 26 01:03	30°RM₊	
	5506 Jan 05 15:18	0°ප		asc. node	5506 Nov 29 04:09	27°M18'53	
morning set	5506 Jan 15 13:51	15° ප 36'37		morning rise	5506 Nov 30 07:09	26°M40'45	
desc. node	5506 Jan 17 10:43	18° る 33'58		direct	5506 Dec 02 23:31	26°M02'16	
	5506 Jan 24 16:52	0° ≈		morning max el	5506 Dec 09 10:45	29°M29'11	18°04'57
					5506 Dec 09 22:48	0° ∡ ¹	
superior conj	5506 Jan 31 17:19	11° ≈ 00'39	-1°29'09	morning set	5506 Dec 27 13:38	26° ₹ 31'57	
minimum elong	5506 Jan 31 07:53	10° ≈ 23'41	1°28'09	Č	5506 Dec 29 16:12	8°0	
max. Earth dist.	5506 Jan 31 11:27	10° ≈ 37'39	1.45316 AU	desc. node	5507 Jan 04 07:44	9° ප 12'20	
	5506 Feb 12 18:31	0°) €					
evening rise	5506 Feb 16 09:13	5°) 44′56		superior conj	5507 Jan 10 23:42	19° る 52'14	-0°45'22
greatest brilliancy	5506 Feb 24 17:39	19° ₩ 03'25	-0.8m	minimum elong	5507 Jan 10 18:08	19° ප 30'10	
greatest offinality	5506 Mar 03 21:46	0° Υ	-0.0111	max. Earth dist.	5507 Jan 14 07:16		1.45184 AU
evening max el	5506 Mar 10 02:49	7° Υ 49'20	18°52'06	max. Earth dist.	5507 Jan 17 10:12	23 3 00 13	1.43164 AU
•		7° Υ 58'10	18 32 00				
asc. node	5506 Mar 10 06:19	11° Y 35'18		evening rise	5507 Jan 27 06:25	15°≈17'54	
retrograde	5506 Mar 16 20:34				5507 Feb 05 19:44	0°) (22152	^ 7
evening set	5506 Mar 20 03:49	10° Y 32'27	2020111	greatest brilliancy	5507 Feb 09 12:13	5°) (33′52	-0.7m
inferior conj	5506 Mar 25 18:25	4° Υ 50'10	3°29'44	evening max el	5507 Feb 21 09:24	21°) (22'14	19°40'18
minimum elong	5506 Mar 25 17:39	4° Y 52'34	3°29'41	asc. node	5507 Feb 25 03:23	24°) (28'44	
min. Earth dist.	5506 Mar 27 11:53	2° Y 41′09	0.65656 AU	retrograde	5507 Feb 28 18:05	25°) 37′07	
	5506 Mar 29 20:06	30° ₹		evening set	5507 Mar 04 08:58	24° ∺ 20′21	
morning rise	5506 Mar 31 07:03	28° ∺ 35'55		inferior conj	5507 Mar 09 19:13	18° ¥ 22'56	3°15'46
direct	5506 Apr 06 19:49	25°) 46′28		minimum elong	5507 Mar 09 17:27	18° ¥ 28'49	3°15'31
desc. node	5506 Apr 15 09:56	29° ∺ 27'40		min. Earth dist.	5507 Mar 10 21:48	16° ¥ 54'55	0.66891 AU
	5506 Apr 16 02:14	0 ° Υ		morning rise	5507 Mar 15 01:42	12° 升 07'52	
morning max el	5506 Apr 19 22:13	3° Y 30'58	26°45'24	direct	5507 Mar 21 03:12	9° ∺ 25'39	
	5506 May 09 23:07	$_{0\circ}$ 8		desc. node	5507 Apr 02 06:58	16°) (40′31	
morning set	5506 May 25 19:24	27° 8 23'26		morning max el	5507 Apr 02 07:48	16°) 42′36	25°32'24
•	5506 May 27 04:02	$\Pi^{\circ}0$		•	5507 Apr 13 08:49	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	5506 May 30 01:32	5° Ⅱ 41'36	1.34347 AU		5507 May 02 21:42	0°8	
	•			morning set	5507 May 08 12:22	9° 8 53'42	
superior conj	5506 Jun 03 10:41	14° Ⅱ 37'44	-0°28'24	max. Earth dist.	5507 May 12 05:54	16° 8 48'50	1.36068 AU
minimum elong	5506 Jun 03 12:14	14° II 45'43			12 00.0T	1000	
asc. node	5506 Jun 06 05:36	20° I 27'47	0 =007	superior conj	5507 May 18 02:22	28° 8 12'37	-0°58'29
evening rise	5506 Jun 10 22:27	0°921'02		minimum elong	5507 May 18 05:39	28° 8 29'02	
evening lise	5506 Jun 10 22:27 5506 Jun 10 18:25	0°9521'02		minimum elong	· · · · · · · · · · · · · · · · · · ·	28° G 2902	0 3133
				aga mada	5507 May 18 23:48		
	5506 Jun 28 09:40	0°Ω	21012102	asc. node	5507 May 24 02:39	10° I I25'16	
evening max el	5506 Jun 30 11:18	2° Ω 11'35	21~13'03	evening rise	5507 May 26 04:17	14° Ⅱ 38'38	
retrograde	5506 Jul 12 10:16	8° Ω 05'31			5507 Jun 03 04:03	0°9	1005635
desc. node	5506 Jul 12 09:11	8° Ω 05'31		evening max el	5507 Jun 12 19:09	13° 5 22'18	19°56'37

retrograde	5507 Jun 23 01:41	18° © 24'08		evening max el	5508 May 25 15:08	25° Ⅱ 15'40	19°00'04
evening set	5507 Jun 24 23:26	18° © 14'29		retrograde	5508 Jun 03 06:31	29° Ⅱ 29'46	
desc. node	5507 Jun 29 06:11	16° © 50'35		evening set	5508 Jun 05 07:07	29° Ⅱ 16'45	
inferior conj	5507 Jul 03 22:54	14° © 13'58	-1°24'28	inferior conj	5508 Jun 13 12:17	25° Ⅲ 02'07	0°28'35
minimum elong	5507 Jul 03 18:59	14° © 19'55	1°23'01	minimum elong	5508 Jun 13 13:26	25° Ⅱ 00'07	0°28'09
min. Earth dist.	5507 Jul 05 21:56	13°902'45	0.55240 AU	desc. node	5508 Jun 15 03:12	23° II 53'53	
morning rise	5507 Jul 12 12:42	9°\$52'28	***************************************	min. Earth dist.	5508 Jun 16 13:28	22° I 55'07	0.56583 AU
direct	5507 Jul 16 19:45	9° © 12'07		morning rise	5508 Jun 21 16:26	20° I 04'27	0.50505710
morning max el	5507 Jul 30 14:21	15°959'39	24°14'30	direct	5508 Jun 26 21:45	18° II 59'50	
morning max ci		13 3 3939	24 14 30			26° Ⅱ 22'22	25051147
,	5507 Aug 10 19:14			morning max el	5508 Jul 11 04:33		25-51-47
asc. node	5507 Aug 20 01:56	16° Ω 23'05			5508 Jul 14 15:29	0°©	
morning set	5507 Aug 24 11:49	25° Ω 26'30			5508 Aug 02 22:19	0 \circ Ω	
	5507 Aug 26 14:54	0° m)		asc. node	5508 Aug 05 22:57	6° Ω 04'41	
				morning set	5508 Aug 07 23:05	10° Ω 16′23	
superior conj	5507 Aug 31 10:32	10° m 28'54	1°33'59				
minimum elong	5507 Aug 31 08:44	10° m 19'10	1°33'49	superior conj	5508 Aug 14 21:23	25° Ω 22'25	1°21'07
max. Earth dist.	5507 Sep 02 10:25	14° m) 47'41	1.32963 AU	minimum elong	5508 Aug 14 19:08	25° Ω 10′03	1°20'49
evening rise	5507 Sep 07 19:13	26° Mp 01'30		max. Earth dist.	5508 Aug 15 18:02	27° Ω 16′02	1.32219 AU
8 2	5507 Sep 09 18:57	0∘ <u>⊽</u>			5508 Aug 16 23:57	0° m)	
desc. node	5507 Sep 25 05:29	26° ≏ 52'04		evening rise	5508 Aug 21 21:24	10° mp 28'06	
desc. Hode	5507 Sep 27 08:18	0°M		evening rise	5508 Sep 01 01:12	10 ஆ2000 0° Ω	
	•		27027101		•		
evening max el	5507 Oct 11 06:48	16°M57'12	2/°2/'01	desc. node	5508 Sep 11 02:30	15° £ 55'05	25015112
retrograde	5507 Oct 24 22:25	24° ™ 14'39		evening max el	5508 Sep 22 14:28	29° ≏ 36'21	27°15'42
evening set	5507 Nov 01 01:23	21° M 39'01			5508 Sep 23 00:36	0° M	
min. Earth dist.	5507 Nov 04 18:03	18° ™ 26′20	0.63600 AU	retrograde	5508 Oct 06 10:47	6° ™ 49'42	
inferior conj	5507 Nov 07 08:46	15° M 47'41	-2°48'54	evening set	5508 Oct 13 13:49	4°M29'45	
minimum elong	5507 Nov 07 13:43	15°M35'08	2°47'05	min. Earth dist.	5508 Oct 17 05:05	1° M 42'20	0.61707 AU
morning rise	5507 Nov 14 03:37	10° M ₊30'04			5508 Oct 19 02:58	30° ŖΩ	
asc. node	5507 Nov 16 01:10	10°M02'39		inferior conj	5508 Oct 20 05:53	28° ≏ 58'58	-3°51'04
direct	5507 Nov 16 14:05	10°M01'14		minimum elong	5508 Oct 20 12:10	28° ≏ 44'49	3°49'14
morning max el	5507 Nov 23 03:45	13°M26'01	17°50'11	morning rise	5508 Oct 27 12:28	24° £ 00′26	
morning max cr	5507 Dec 04 14:05	0° √	17 30 11	direct	5508 Oct 29 19:54	23° ⊆ 37'45	
morning set	5507 Dec 09 15:56	8° ∡ 744'30		asc. node	5508 Nov 01 22:11	24° ⊆ 20'00	
morning set	3307 Dec 09 13.30	8 X 44 30					17052126
				morning max el	5508 Nov 05 19:18	27° Ω 08'57	17°53'36
superior conj	5507 Dec 22 01:36	29° ∡ ¹43'57	0°00'56		5508 Nov 08 07:59	0° M	
		_					
minimum elong	5507 Dec 22 01:42	29° ∡ ¹44′20	0°00'56	morning set	5508 Nov 21 14:16	21°M54'02	
minimum elong behind sun begin	5507 Dec 22 01:42 5507 Dec 21 16:03	29° √ 04'41	0°00'56	morning set		21° M 54'02 0° √	
•			0°00'56	morning set	5508 Nov 21 14:16		
behind sun begin	5507 Dec 21 16:03	29° √ 04'41	0°00'56	morning set superior conj	5508 Nov 21 14:16		0°40'50
behind sun begin behind sun end	5507 Dec 21 16:03 5507 Dec 22 11:20	29° メ 04'41 0° る 23'53	0°00'56	-	5508 Nov 21 14:16 5508 Nov 26 01:45	0° ∡ 7	
behind sun begin behind sun end	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48	29° ₹04'41 0° ₹23'53 29° ₹57'05	0°00'56 1.44336 AU	superior conj	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47	0°⊀ 10°⊀52'13	
behind sun begin behind sun end desc. node max. Earth dist.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11	29° メ 04'41 0° る 23'53 29° メ 57'05 0° る		superior conj minimum elong	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47	0° ₹ 10° ₹ 52'13 11° ₹ 06'32	0°40'23
behind sun begin behind sun end desc. node	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53	29° 🗷 04'41 0° 323'53 29° 🗷 57'05 0° 3 9° 324'42 24° 331'08		superior conj minimum elong desc. node	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04	0° ₹ 10° ₹ 52'13 11° ₹ 06'32 20° ₹ 43'58 23° ₹ 17'31	
behind sun begin behind sun end desc. node max. Earth dist.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52	29° ₹04'41 0°♂23'53 29° ₹57'05 0°♂ 9°♂24'42 24°♂31'08 0°≈		superior conj minimum elong desc. node max. Earth dist.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42	0°♂ 10°♂52'13 11°♂06'32 20°♂43'58 23°♂17'31 0°♂	0°40'23
behind sun begin behind sun end desc. node max. Earth dist. evening rise	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ¥	1.44336 AU	superior conj minimum elong desc. node	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20	0°♂ 10°♂52'13 11°♂06'32 20°♂43'58 23°♂17'31 0°♂ 4°♂03'49	0°40'23
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37	29° 🗷 04'41 0° 云23'53 29° 丞 57'05 0° 云 9° 云24'42 24° 云31'08 0° 無 0° 升 4° 升56'11		superior conj minimum elong desc. node max. Earth dist. evening rise	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26	0°♂ 10°♂52'13 11°♂06'32 20°♂43'58 23°♂17'31 0°♂ 4°♂03'49 0°≈	0°40'23 1.42872 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25	29° 🗷 04'41 0° 召23'53 29° 🗷 57'05 0° 召 9° 召24'42 24° 召31'08 0° ※ 0° 米 4° 米 56'11 9° 米 45'16	1.44336 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32	0° ₹ 10° ₹ 52'13 11° ₹ 06'32 20° ₹ 43'58 23° ₹ 17'31 0° ₹ 4° ₹ 03'49 0° ≈ 18° ≈ 32'08	0°40'23
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24	29° ₹04'41 0° ₹523'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ¥ 4° ¥56'11 9° ¥45'16 9° ¥47'39	1.44336 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈ 32'08 24° ≈ 03'30	0°40'23 1.42872 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 16 16:16	29° ₹04'41 0°♂23'53 29° ₹57'05 0°♂ 9°♂24'42 24°♂31'08 0°≈ 0° ¥ 4° ¥56'11 9° ¥45'16 9° ¥47'39 8° ¥16'17	1.44336 AU 20°42'49	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53	0°40'23 1.42872 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 16 16:16 5508 Feb 22 00:31	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ¥ 4° ¥56'11 9° ¥45'16 9° ¥47'39 8° ¥16'17 2° ¥06'25	1.44336 AU 20°42'49 2°50'56	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53	0°40'23 1.42872 AU 21°56'11
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 16 16:16 5508 Feb 22 00:31 5508 Feb 21 22:13	29° 🗷 04'41 0° る23'53 29° ₰57'05 0° る 9° る24'42 24° る31'08 0° ※ 4° ¥56'11 9° ¥45'16 9° ¥47'39 8° ¥16'17 2° ¥06'25 2° ¥14'19	1.44336 AU 20°42'49 2°50'56 2°50'24	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40	0°40'23 1.42872 AU 21°56'11 2°17'02
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 16 16:16 5508 Feb 22 00:31	29° 🗷 04'41 0° る23'53 29° 矛57'05 0° る 9° る24'42 24° る31'08 0° ※ 0° 光 4° 光56'11 9° 光45'16 9° 光47'39 8° 光16'17 2° 光06'25 2° 光14'19 1° 光21'14	1.44336 AU 20°42'49 2°50'56	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 16 16:16 5508 Feb 22 00:31 5508 Feb 21 22:13	29° 🗷 04'41 0° る23'53 29° ₰57'05 0° る 9° る24'42 24° る31'08 0° ※ 4° ¥56'11 9° ¥45'16 9° ¥47'39 8° ¥16'17 2° ¥06'25 2° ¥14'19	1.44336 AU 20°42'49 2°50'56 2°50'24	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40	0°40'23 1.42872 AU 21°56'11 2°17'02
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 16 16:16 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40	29° 🗷 04'41 0° る23'53 29° 矛57'05 0° る 9° る24'42 24° る31'08 0° ※ 0° 光 4° 光56'11 9° 光45'16 9° 光47'39 8° 光16'17 2° 光06'25 2° 光14'19 1° 光21'14	1.44336 AU 20°42'49 2°50'56 2°50'24	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:16 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39	29° 🗷 04'41 0° る23'53 29° 矛57'05 0° る 9° る24'42 24° る31'08 0° ※ 0° 米 4° 米56'11 9° 米45'16 9° 米47'39 8° 米16'17 2° 米06'25 2° 米14'19 1° 米21'14	1.44336 AU 20°42'49 2°50'56 2°50'24	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 09:10	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:16 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58	29° 🗷 04'41 0° る23'53 29° 矛57'05 0° る 9° る24'42 24° る31'08 0° ※ 4° 米56'11 9° 米45'16 9° 米47'39 8° 米16'17 2° 米06'25 2° 米14'19 1° 米21'14 30° R※ 25° ※52'23	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 09:10 5509 Feb 10 11:24	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 21 31:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47	29° 🗷 04'41 0° 523'53 29° ₹57'05 0° 5 9° 524'42 24° 531'08 0° ≈ 0° ¥ 4° ¥56'11 9° ¥45'16 9° ¥47'39 8° ¥16'17 2° ¥06'25 2° ¥14'19 1° ¥21'14 30° R≈ 25° ≈52'23 23° ≈26'03	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 09:10 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 14 15:55	29° 🗷 04'41 0° る23'53 29° 矛57'05 0° る 9° る24'42 24° る31'08 0° ※ 0° 米 4° 米56'11 9° 米45'16 9° 米47'39 8° 米16'17 2° 米06'25 2° 米14'19 1° 米21'14 30° 根 25° ※52'23 23° ※26'03 0° 米01'27 0° 米	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 00:31 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 19 04:00	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ₹ 4° ₹56'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40	0° ₹ 52'13 11° ₹ 52'13 11° ₹ 06'32 20° ₹ 43'58 23° ₹ 17'31 0° ₹ 4° ₹ 03'49 0° ≈ 18° ≈ 32'08 24° ≈ 03'30 23° ≈ 34'53 22° ≈ 16'53 15° ≈ 57'40 16° ≈ 05'53 15° ≈ 54'13 9° ≈ 46'24 7° ≈ 41'03 13° ≈ 26'24 24° ≈ 03'45 0° ₹	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:16 5508 Feb 22 00:31 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ₹ 4° ₹56'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:16 5508 Feb 22 00:31 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 19 08:50	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ₹ 4° ₹56'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹ 21° ₹22'04	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56	0° ₹ 52'13 11° ₹ 52'13 11° ₹ 06'32 20° ₹ 43'58 23° ₹ 17'31 0° ₹ 4° ₹ 03'49 0° ≈ 18° ≈ 32'08 24° ≈ 03'30 23° ≈ 34'53 22° ≈ 16'53 15° ≈ 57'40 16° ≈ 05'53 15° ≈ 54'13 9° ≈ 46'24 7° ≈ 41'03 13° ≈ 26'24 24° ≈ 03'45 0° ₹ 0° ₹ 1° ₹ 33'43	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:16 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 19 08:50 5508 Apr 23 02:13	29° 🗷 04'41 0°る23'53 29° 🗷 57'05 0°る 9°る24'42 24°る31'08 0°≈ 0° ₭ 4° ₭ 56'11 9° ₭ 45'16 9° ₭ 47'39 8° ₭ 16'17 2° ₭ 06'25 2° ₭ 14'19 1° ₭ 21'14 30° ₨ 25°≈52'23 23°≈26'03 0° ₭ 01'27 0° ₭ 4° ₭ 58'37 0° ♥ 21° ♥ 22'04 27° ♥ 54'56	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU	superior conj 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	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:16 5508 Feb 22 00:31 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 19 08:50	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ₹ 4° ₹56'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹ 21° ₹22'04	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08	superior conj 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.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 04 22:03	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 0° ₹	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 19 08:50 5508 Apr 23 02:13 5508 Apr 24 06:02	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹57'05 0° ₹524'42 24° ₹31'08 0° ₹6'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹ 21° ₹22'04 27° ₹54'56 0° ₹	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08	superior conj 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.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 12 17:17	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 0° ₹ 1° ₹33'43 9° ₹34'48	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU -1°51'39
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Apr 19 08:50 5508 Apr 19 08:50 5508 Apr 23 02:13 5508 Apr 24 06:02	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹57'05 0° ₹524'42 24° ₹31'08 0° ≈ 0° ₹46'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹4° ₹58'37 0° ₹7 21° ₹22'04 27° ₹54'56 0° ₹8	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08 1.38135 AU -1°27'19	superior conj 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.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 12 17:17 5509 Apr 12 17:17	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 0° ₹ 1° ₹33'43 9° ₹34'48	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU -1°51'39
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 19 08:50 5508 Apr 23 02:13 5508 Apr 24 06:02	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹57'05 0° ₹524'42 24° ₹31'08 0° ₹6'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹ 21° ₹22'04 27° ₹54'56 0° ₹	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08 1.38135 AU -1°27'19	superior conj 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.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 12 17:17	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 0° ₹ 1° ₹33'43 9° ₹34'48	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU -1°51'39
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 00:31 5508 Feb 21 22:13 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Apr 19 08:50 5508 Apr 19 08:50 5508 Apr 23 02:13 5508 Apr 24 06:02	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹57'05 0° ₹524'42 24° ₹31'08 0° ≈ 0° ₹46'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹4° ₹58'37 0° ₹7 21° ₹22'04 27° ₹54'56 0° ₹8	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08 1.38135 AU -1°27'19	superior conj 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.	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 05:48 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 12 17:17 5509 Apr 12 17:17	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 0° ₹ 1° ₹33'43 9° ₹34'48	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU -1°51'39
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 00:31 5508 Feb 22 13:40 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 19 08:50 5508 Apr 23 02:13 5508 Apr 24 06:02	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ₹ 4° ₹56'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹ 21° ₹22'04 27° ₹54'56 0° ₹ 11° ₹31'33	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08 1.38135 AU -1°27'19	superior conj 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. superior conj minimum elong	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 26 13:37 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 09:10 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 12 17:17 5509 Apr 12 22:16 5509 Apr 16 09:15	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 1° ₹33'43 9° ₹34'48 23° ₹16'44 23° ₹39'20 0° ₹	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU -1°51'39
behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	5507 Dec 21 16:03 5507 Dec 22 11:20 5507 Dec 22 04:48 5507 Dec 22 05:30 5507 Dec 28 01:11 5508 Jan 06 16:53 5508 Jan 10 06:52 5508 Jan 31 03:34 5508 Feb 04 10:37 5508 Feb 12 00:25 5508 Feb 12 16:24 5508 Feb 12 16:24 5508 Feb 22 00:31 5508 Feb 22 13:40 5508 Feb 23 13:39 5508 Feb 27 03:58 5508 Mar 03 15:47 5508 Mar 14 16:29 5508 Mar 14 16:29 5508 Mar 19 04:00 5508 Apr 06 05:45 5508 Apr 23 02:13 5508 Apr 24 06:02	29° ₹04'41 0° ₹23'53 29° ₹57'05 0° ₹ 9° ₹24'42 24° ₹31'08 0° ≈ 0° ₹ 4° ₹56'11 9° ₹45'16 9° ₹47'39 8° ₹16'17 2° ₹06'25 2° ₹14'19 1° ₹21'14 30° ₹≈ 25° ≈52'23 23° ≈26'03 0° ₹01'27 0° ₹ 4° ₹58'37 0° ₹ 21° ₹22'04 27° ₹54'56 0° ₹ 11° ₹31'33 28° ₹32'08	1.44336 AU 20°42'49 2°50'56 2°50'24 0.67699 AU 24°06'08 1.38135 AU -1°27'19	superior conj 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. superior conj minimum elong evening rise	5508 Nov 21 14:16 5508 Nov 26 01:45 5508 Dec 02 05:47 5508 Dec 02 09:07 5508 Dec 08 01:47 5508 Dec 09 15:04 5508 Dec 13 18:42 5508 Dec 16 08:20 5509 Jan 02 16:26 5509 Jan 17 06:32 5509 Jan 26 13:37 5509 Jan 28 21:25 5509 Jan 31 00:01 5509 Feb 05 08:10 5509 Feb 05 09:10 5509 Feb 05 09:10 5509 Feb 10 11:24 5509 Feb 15 08:46 5509 Feb 25 02:37 5509 Mar 06 01:02 5509 Mar 10 09:40 5509 Mar 30 04:01 5509 Mar 30 04:01 5509 Mar 31 02:56 5509 Apr 12 17:17 5509 Apr 12 22:16 5509 Apr 16 09:15 5509 Apr 22 17:00	0° ₹ 10° ₹52'13 11° ₹06'32 20° ₹43'58 23° ₹17'31 0° ₹ 4° ₹03'49 0° ≈ 18° ≈32'08 24° ≈03'30 23° ≈34'53 22° ≈16'53 15° ≈57'40 16° ≈05'53 15° ≈54'13 9° ≈46'24 7° ≈41'03 13° ≈26'24 24° ≈03'45 0° ₹ 0° ₹ 1° ₹33'43 9° ₹34'48 23° ₹16'44 23° ₹39'20 0° ₹ 11° ₹53'39	0°40'23 1.42872 AU 21°56'11 2°17'02 2°16'18 0.68098 AU 22°36'50 1.40341 AU -1°51'39

evening max el	5509 May 08 20:19	7° Ⅱ 45'57	18°23'54	asc. node	5510 Apr 13 17:43	8° 8 47'02	
retrograde	5509 May 16 06:14	11° II 26'50	10 23 34	evening max el	5510 Apr 13 17:45 5510 Apr 22 06:58	20° 8 42'29	18°07'33
evening set	5509 May 18 13:47	11° I I06'18		retrograde	5510 Apr 28 23:26	24° 8 06'49	10 07 33
inferior conj	5509 May 25 23:08	6° Ⅱ 31'46	1°55'56	evening set	5510 May 01 13:55	23° 8 36'06	
minimum elong	5509 May 26 02:29	6° П 24'55	1°54'54	inferior conj	5510 May 08 06:15	18° 8 40'44	2°52'34
min. Earth dist.	5509 May 29 09:28	3° П 44'48	0.58534 AU	minimum elong	5510 May 08 09:17	18° 8 33'33	2°51'56
desc. node	5509 Jun 02 00:13	1° Ⅱ 17'36	0.50551710	min. Earth dist.	5510 May 11 12:06	15° 8 37'23	0.60737 AU
morning rise	5509 Jun 02 12:01	1° Ⅱ 01'34		morning rise	5510 May 15 02:26	12° 8 47'38	0.00757110
	5509 Jun 04 21:48	30°R₩		desc. node	5510 May 19 21:16	10° 8 47'23	
direct	5509 Jun 08 14:03	29° 8 24'13		direct	5510 May 21 17:57	10° 8 37'18	
	5509 Jun 12 08:10	0°П		morning max el	5510 Jun 05 00:38		27°47'09
morning max el	5509 Jun 22 23:21	7° Ⅱ 08'21	27°06'20	. 8	5510 Jun 14 15:32	0°II	
5 5	5509 Jul 10 02:22	0°9			5510 Jul 02 20:23	0°9	
morning set	5509 Jul 23 08:16	24°\$58'08		morning set	5510 Jul 07 13:34	9° 5 25'37	
asc. node	5509 Jul 23 19:58	25°959'50		asc. node	5510 Jul 10 17:00	16°902'55	
	5509 Jul 25 16:54	$0^{\circ}\Omega$		max. Earth dist.	5510 Jul 13 15:26	22°524'51	1.32012 AU
superior conj	5509 Jul 30 09:13	10° Ω 15'54	1°03'35	superior conj	5510 Jul 14 20:15	25° © 03'02	0°41'55
minimum elong	5509 Jul 30 06:59	10° Ω 03'33	1°03'12	minimum elong	5510 Jul 14 18:30	24° © 53'27	0°41'33
max. Earth dist.	5509 Jul 30 04:58	9° Ω 52'24	1.31907 AU		5510 Jul 17 02:10	$0^{\circ}\Omega$	
evening rise	5509 Aug 06 04:54	25° Ω 08′23		evening rise	5510 Jul 21 15:31	9° Ω 54'45	
	5509 Aug 08 12:53	0° m			5510 Jul 31 21:46	0° m	
	5509 Aug 25 21:29	0∘ 亚		desc. node	5510 Aug 15 20:30	21° m 01'53	
desc. node	5509 Aug 28 23:29	4° ჲ 05'23		evening max el	5510 Aug 17 09:53	22° m 35'11	25°15'45
evening max el	5509 Sep 04 16:02	11° ≏ 30′25	26°30'46	retrograde	5510 Aug 31 08:08	29° m 38'12	
retrograde	5509 Sep 18 14:36	18° ≏ 38'37		evening set	5510 Sep 06 02:15	28° m 22'14	
evening set	5509 Sep 25 07:39	16° ≏ 46'29		min. Earth dist.	5510 Sep 10 21:30	25° m 41'33	0.57631 AU
min. Earth dist.	5509 Sep 29 05:41	14° ≏ 11'16	0.59650 AU	inferior conj	5510 Sep 13 21:59	23° m 38'27	
inferior conj	5509 Oct 02 11:23	11° ≏ 39'05	-4°44'11	minimum elong	5510 Sep 14 00:23	23° m 34'21	5°16'17
minimum elong	5509 Oct 02 17:17	11° ≏ 27'27	4°43'03	morning rise	5510 Sep 22 00:48	19° m 24'53	
morning rise	5509 Oct 10 05:03	7° ഫ 02'25		direct	5510 Sep 24 13:10	19° Mp 06'02	
direct	5509 Oct 12 13:01	6° ≏ 42'52		morning max el	5510 Oct 03 08:42	23° Mp 16'46	19°00'37
asc. node	5509 Oct 19 19:13	10° ≏ 03'24		asc. node	5510 Oct 06 16:16	26° Mp 58'38	
morning max el	5509 Oct 20 06:04	10° ≙ 28'55	18°16'33		5510 Oct 08 21:03	0∘ ত	
	5509 Nov 02 01:51	0° M		morning set	5510 Oct 20 01:07	20° ≏ 00'42	
morning set	5509 Nov 05 02:46	5°M43'31			5510 Oct 25 02:25	0° M	
superior conj	5509 Nov 14 10:06	23°M10'08	1°10'42	superior conj	5510 Oct 28 09:24	6°M23'29	1°30'17
minimum elong	5509 Nov 14 10:00 5509 Nov 14 13:56	23°M27'31	1°10'42 1°10'16	minimum elong	5510 Oct 28 09:24 5510 Oct 28 12:12	6°M36'55	1°30'17 1°30'04
minimum ciong	5509 Nov 18 05:33	0° √	1 10 10	max. Earth dist.	5510 Nov 04 05:56	19°ML07'32	1.38860 AU
max. Earth dist.	5509 Nov 22 00:16	6° ∡ 733'13	1.40970 AU	evening rise	5510 Nov 08 01:52	25°M51'28	1.50000 710
desc. node	5509 Nov 24 22:47	11° × ⁷ 29'54	1.40770710	evening rise	5510 Nov 10 12:20	0° ⊼ ¹	
evening rise	5509 Nov 26 17:43	14° ×7'26'49		desc. node	5510 Nov 11 19:48	2° × 711'11	
evening rise	5509 Dec 06 15:13	0°る		dese. Hode	5510 Nov 30 06:32	0°පි	
	5509 Dec 28 20:21	0° ≈		evening max el	5510 Dec 13 11:32	15° る 53'52	24°34'24
evening max el	5509 Dec 30 22:14	2° ≈ 11'07	23°15'25	retrograde	5510 Dec 24 22:58	22° る 35'52	2.3.2.
retrograde	5510 Jan 10 08:08	8° ≈ 20'49	25 10 20	evening set	5510 Dec 30 10:41	20° ප 18'36	
evening set	5510 Jan 15 06:40	6°≈18'34		asc. node	5511 Jan 02 15:30	16° පි 53'36	
asc. node	5510 Jan 15 18:27	5°≈52'35		min. Earth dist.	5511 Jan 04 01:37	15° ට 03'17	0.67759 AU
min. Earth dist.	5510 Jan 20 05:54	0° ≈ 29'14	0.68114 AU	inferior conj	5511 Jan 04 22:59	13° る 52'05	0°46'26
inferior conj	5510 Jan 20 16:15	29° ප 53'40	1°35'13	minimum elong	5511 Jan 04 21:54	13°る55'44	0°46'00
minimum elong	5510 Jan 20 14:17	0° ≈ 00'24		morning rise	5511 Jan 10 09:14	7° る 51'31	
C	5510 Jan 20 14:24	30°Ŗ₹		direct	5511 Jan 14 03:10	6° ප 31'04	
morning rise	5510 Jan 25 21:49	23° る 46'48		morning max el	5511 Jan 21 16:59	10°る48'02	20°00'40
direct	5510 Jan 30 04:57	22° る 04'20		. 8	5511 Feb 05 06:21	0° ≈	
morning max el	5510 Feb 07 17:54	27°る00'50	21°13'02	desc. node	5511 Feb 07 19:06	3° ≈ 45'57	
Ç	5510 Feb 10 12:05	0° ≈		morning set	5511 Feb 17 13:49	18° ≈ 38'50	
desc. node	5510 Feb 20 22:03	13° ≈ 42'30		-	5511 Feb 24 20:39	0° ∀	
	5510 Mar 03 22:54	0° ∀		max. Earth dist.	5511 Feb 28 10:06	5°) 38'46	1.44039 AU
morning set	5510 Mar 10 16:48	10° ¥ 26'27					
max. Earth dist.	5510 Mar 18 00:07	22° ∺ 10'04	1.42402 AU	superior conj	5511 Mar 05 20:07	14° ¥ 23′20	-2°07'25
	5510 Mar 22 17:11	0° Y		minimum elong	5511 Mar 05 17:12	14° ¥ 11′25	2°07'21
	5510 Mai 22 17.11			-		00	
	3310 Mar 22 17.11				5511 Mar 15 04:51	0 ° Υ	
superior conj	5510 Mar 25 07:15	4° Υ' 23'48	-2°06'54	evening rise	5511 Mar 15 04:51 5511 Mar 18 22:29	6° Υ 23'07	
superior conj minimum elong		4° Υ 23'48 4° Υ 35'17		evening rise asc. node			
	5510 Mar 25 07:15			=	5511 Mar 18 22:29	6° Ƴ 23'07	
minimum elong	5510 Mar 25 07:15 5510 Mar 25 09:55	4° Ƴ 35'17		=	5511 Mar 18 22:29 5511 Mar 31 14:45	6° Υ 23'07 27° Υ 23'39	18°10'22

retrograde	5511 Apr 12 05:45	7° 8 20'04		evening rise	5512 Feb 28 06:05	17° ¥ 15'53	
evening set	5511 Apr 15 02:34	6° 8 37'41			5512 Mar 07 01:11	0° Y	
inferior conj	5511 Apr 21 05:59	1° 8 22'45	3°22'33	asc. node	5512 Mar 17 11:48	15° Y 21′08	
minimum elong	5511 Apr 21 07:34	1° 8 18'29	3°22'22	evening max el	5512 Mar 19 07:58	17° Y 23′09	18°31'48
	5511 Apr 22 12:32	30° ₹ Υ		retrograde	5512 Mar 25 20:41	20° Y 57'36	
min. Earth dist.	5511 Apr 23 23:38	28° Y 26'48	0.62881 AU	evening set	5512 Mar 28 23:52	20° Y ′02'37	
morning rise	5511 Apr 27 11:16	25°Υ16'13		inferior conj	5512 Apr 03 18:13	14° Y 29'53	3°31'48
direct	5511 May 04 07:27	22° Υ 40'37 22° Υ 58'46		minimum elong	5512 Apr 03 18:13	14° Υ 29'51 11° Υ 59'57	3°31'48 0.64749 AU
desc. node	5511 May 06 18:19 5511 May 17 14:51	0° 8		min. Earth dist. morning rise	5512 Apr 05 20:41 5512 Apr 09 11:52	8° Υ 16'58	0.64/49 AU
morning max el	5511 May 17 14.31 5511 May 18 07:34	0° 8 41'11	27°50'00	direct	5512 Apr 16 05:05	5° Υ 28'31	
morning max cr	5511 Jun 08 18:09	0°II	27 30 00	desc. node	5512 Apr 22 15:23	7° Υ 33'32	
morning set	5511 Jun 21 12:52	23° II 32'29		morning max el	5512 Apr 29 17:24	13° Υ 23'29	27°17'28
3	5511 Jun 24 16:20	0ಂತಾ		. 8	5512 May 13 02:34	0°8	
max. Earth dist.	5511 Jun 26 21:26	4° © 40'43	1.32551 AU		5512 May 31 08:48	0°II	
asc. node	5511 Jun 27 14:02	6° © 09'35		morning set	5512 Jun 04 03:27	7° Ⅱ 10'56	
				max. Earth dist.	5512 Jun 08 19:00	16° Ⅲ 29′12	1.33549 AU
superior conj	5511 Jun 29 04:43	9° 5 38'13	0°16'41				
minimum elong	5511 Jun 29 03:55	9° © 33'57	0°16'30	superior conj	5512 Jun 12 08:39	23° Ⅱ 55'55	-0°11'23
evening rise	5511 Jul 06 03:19	24° © 40'51		minimum elong	5512 Jun 12 09:15	23° Ⅱ 59'03	0°11'17
	5511 Jul 08 16:13	$0^{\circ}\Omega$		behind sun begin	5512 Jun 12 05:18	23° Ⅱ 38'10	
	5511 Jul 27 01:10	0°Щ		behind sun end	5512 Jun 12 13:12	24° Ⅱ 19'57	
evening max el	5511 Jul 29 22:22	3° Mp 02'33	23°41'43	asc. node	5512 Jun 13 11:05	26° Ⅱ 16'05	
desc. node	5511 Aug 02 17:32	6° Mp 15'35			5512 Jun 15 05:04	0₀æ	
retrograde	5511 Aug 12 13:53	9° m 53'44		evening rise	5512 Jun 19 14:25	9° 5 20'59	
evening set	5511 Aug 16 21:16	9° Mp 12'56	0.55948 AU	arraning may al	5512 Jun 30 09:32 5512 Jul 10 13:10	0° Ω 13° Ω 24'22	22°04'41
min. Earth dist.	5511 Aug 23 08:19 5511 Aug 25 12:20	6° Mp 08'48 4° Mp 50'45		evening max el desc. node	5512 Jul 19 14:35	$13 \text{e}^{24 22}$ $19^{\circ} \Omega 12'39$	22 0441
minimum elong	5511 Aug 25 12:20 5511 Aug 25 08:19	4° Mp 56'48	5°11'01	retrograde	5512 Jul 23 08:00	19° Ω 45'05	
morning rise	5511 Sep 02 21:50	0° m 55'53	3 11 01	evening set	5512 Jul 26 04:31	19° Ω 26'56	
direct	5511 Sep 02 21:30 5511 Sep 05 17:34	0°10/36'00		inferior conj	5512 Aug 04 10:29	$15^{\circ}\Omega 22'46$	-4°15'15
morning max el	5511 Sep 16 00:16	5° m 23'01	20°06'41	minimum elong	5512 Aug 04 01:45	15° Ω 35'03	4°13'09
asc. node	5511 Sep 23 13:20	14° m 50'13		min. Earth dist.	5512 Aug 03 18:20	15° Ω 45'29	0.54941 AU
	5511 Oct 01 23:15	0∘ ⊽		morning rise	5512 Aug 13 00:38	11° Ω 32'46	
morning set	5511 Oct 04 06:01	4° £ 35'47		direct	5512 Aug 16 06:19	11° Ω 09'29	
				morning max el	5512 Aug 28 03:41	16° Ω 43'18	21°33'17
superior conj	5511 Oct 11 22:30	20° ≏ 17'00	1°40'40		5512 Sep 07 10:06	0° m	
minimum elong	5511 Oct 11 23:47	20° ≏ 23'26	1°40'37	asc. node	5512 Sep 09 10:23	3° My 25'03	
	5511 Oct 16 21:20	0°M₊		morning set	5512 Sep 17 15:03	19° m 22'05	
max. Earth dist.	5511 Oct 17 11:48	1°M08'56	1.36798 AU		5512 Sep 22 16:14	0∘ ⊽	
evening rise	5511 Oct 21 07:20	8°M14'00					
desc. node	5511 Oct 29 16:49	22°M43'09		superior conj	5512 Sep 24 21:20	4° £ 38'39	1°43'11
	5511 Nov 03 06:29 5511 Nov 26 00:04	0° ₰ 29° ₰ 37'41	25946119	minimum elong max. Earth dist.	5512 Sep 24 21:10	4° £ 37'42	1°43'11 1.35000 AU
evening max el	5511 Nov 26 00:19	29 x・3/41 0°る	25°46'18	evening rise	5512 Sep 28 23:17 5512 Oct 03 06:19	13° Ω 00'35 21° Ω 25'06	1.55000 AU
retrograde	5511 Dec 08 09:14	6° る 42'28		evening rise	5512 Oct 07 21:47	0°ML	
evening set	5511 Dec 14 10:22	4°る12'32		desc. node	5512 Oct 15 13:50	13°ML00'42	
	5511 Dec 18 09:01	30°R. ✓			5512 Oct 27 02:48	0° ∡ 7	
min. Earth dist.	5511 Dec 18 18:03	29° х 31′53	0.67042 AU	evening max el	5512 Nov 07 12:50	13° ∡ 17'57	26°43'41
inferior conj	5511 Dec 20 02:33	27° ₹ '49'04	-0°08'31	retrograde	5512 Nov 20 14:14	20° ∡ ³34'14	
minimum elong	5511 Dec 20 02:46	27° ∡ ¹48'22	0°08'24	evening set	5512 Nov 27 03:46	17° ∡ ¹56′18	
transit middle	5511 Dec 20 02:46	27° ∡ ¹48'22	0°08'24	min. Earth dist.	5512 Dec 01 04:55	13° ₹ ′50'45	0.65973 AU
transit begin		· · ·		inferior conj		110.7/41/06	-1°08'31
transit end	5511 Dec 20 00:21	27° ₰ 756'01		illierior conj	5512 Dec 03 00:54	11 × 4100	
asc. node	5511 Dec 20 00:21 5511 Dec 20 05:11	27° ₹ 56'01 27° ₹ 40'44		minimum elong	5512 Dec 03 00:54 5512 Dec 03 02:50	11° ∡ ³35'24	1°07'40
	5511 Dec 20 05:11 5511 Dec 20 12:34	27° х 40'44 27° х 17'26		minimum elong asc. node	5512 Dec 03 02:50 5512 Dec 06 09:38	11° х ³35'24 8° х ³00'57	1°07'40
morning rise	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37	27° ₹ 40'44 27° ₹ 17'26 21° ₹ 56'50		minimum elong asc. node morning rise	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45	11° х 35′24 8° х 00′57 5° х 59′41	1°07'40
direct	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56	27° 🖈 40'44 27° 🖈 17'26 21° 🖈 56'50 20° 🖈 55'43		minimum elong asc. node morning rise direct	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30	11° 🖈 35'24 8° 🖈 00'57 5° 🖈 59'41 5° 🖈 14'08	
•	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50	27° 🖈 40'44 27° 🖈 17'26 21° 🖈 56'50 20° 🖈 55'43 24° 🖈 44'59	19°02'52	minimum elong asc. node morning rise	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41	11° 🖈 35'24 8° 🖈 00'57 5° 🖈 159'41 5° 🖈 14'08 8° 🖈 46'39	1°07'40 18°21'09
direct morning max el	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34	27° ¾40'44 27° ¾17'26 21° ¾56'50 20° ¾55'43 24° ¾44'59 0°る	19°02'52	minimum elong asc. node morning rise direct morning max el	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59	11° \$735'24 8° \$700'57 5° \$759'41 5° \$714'08 8° \$746'39 0° 중	
direct morning max el desc. node	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07	27° ₹40'44 27° ₹17'26 21° ₹56'50 20° ₹55'43 24° ₹44'59 0° ₹ 24° ₹06'36	19°02'52	minimum elong asc. node morning rise direct morning max el	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40	11° ₹35'24 8° ₹00'57 5° ₹59'41 5° ₹14'08 8° ₹46'39 0° ₹ 7° ₹24'44	
direct morning max el	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07 5512 Jan 27 18:07	27° ¾40'44 27° ¾17'26 21° ¾56'50 20° ¾55'43 24° ¾44'59 0° ♂ 24° ♂06'36 27° ♂21'03	19°02'52	minimum elong asc. node morning rise direct morning max el	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40 5513 Jan 11 13:07	11° \$\frac{3}{3}5'24 8° \$\frac{3}{2}00'57 5° \$\frac{3}{5}9'41 5° \$\frac{1}{4}10'8 8° \$\frac{3}{4}46'39 0° \$\frac{7}{6}24'44 14° \$\frac{3}{3}9'29	
direct morning max el desc. node morning set	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07 5512 Jan 27 18:07 5512 Jan 29 10:56	27° ₹40'44 27° ₹17'26 21° ₹56'50 20° ₹55'43 24° ₹44'59 0° ₹ 24° ₹06'36 27° ₹21'03 0° ≈		minimum elong asc. node morning rise direct morning max el	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40	11° ₹35'24 8° ₹00'57 5° ₹59'41 5° ₹14'08 8° ₹46'39 0° ₹ 7° ₹24'44	
direct morning max el desc. node	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07 5512 Jan 27 18:07	27° ¾40'44 27° ¾17'26 21° ¾56'50 20° ¾55'43 24° ¾44'59 0° ♂ 24° ♂06'36 27° ♂21'03	19°02'52 1.45053 AU	minimum elong asc. node morning rise direct morning max el morning set desc. node	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40 5513 Jan 11 13:07 5513 Jan 21 05:37	11° ₹35'24 8° ₹00'57 5° ₹59'41 5° ₹14'08 8° ₹46'39 0° ₹ 7° ₹24'44 14° ₹39'29 0° ≈	18°21'09
direct morning max el desc. node morning set max. Earth dist.	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07 5512 Jan 27 18:07 5512 Jan 29 10:56 5512 Feb 11 01:41	27° ₹40'44 27° ₹17'26 21° ₹56'50 20° ₹55'43 24° ₹44'59 0° ₹ 24° ₹06'36 27° ₹21'03 0° ≈ 19° ≈43'07	1.45053 AU	minimum elong asc. node morning rise direct morning max el morning set desc. node	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40 5513 Jan 11 13:07 5513 Jan 21 05:37	11° \$\frac{3}{3}5'24 8° \$\frac{3}{2}00'57 5° \$\frac{3}{5}9'41 5° \$\frac{3}{4}4'08 8° \$\frac{3}{4}4'39 0° \$\frac{7}{6}24'44 14° \$\frac{3}{3}9'29 0° \$\infty\$ 2° \$\infty\$02'22	18°21'09 -1°11'37
direct morning max el desc. node morning set max. Earth dist. superior conj	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07 5512 Jan 27 18:07 5512 Jan 29 10:56	27° ₹40'44 27° ₹17'26 21° ₹56'50 20° ₹55'43 24° ₹44'59 0° ₹ 24° ₹06'36 27° ₹21'03 0° ≈	1.45053 AU -1°48'39	minimum elong asc. node morning rise direct morning max el morning set desc. node	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40 5513 Jan 11 13:07 5513 Jan 21 05:37	11° ₹35'24 8° ₹00'57 5° ₹59'41 5° ₹14'08 8° ₹46'39 0° ₹ 7° ₹24'44 14° ₹39'29 0° ≈	18°21'09
direct morning max el desc. node morning set max. Earth dist.	5511 Dec 20 05:11 5511 Dec 20 12:34 5511 Dec 25 19:37 5511 Dec 29 01:56 5512 Jan 04 23:50 5512 Jan 09 11:34 5512 Jan 25 16:07 5512 Jan 27 18:07 5512 Jan 29 10:56 5512 Feb 11 01:41 5512 Feb 13 09:39	27° 🗷 40'44 27° 🗷 17'26 21° 🗷 56'50 20° 🗷 55'43 24° 🗷 44'59 0° ゼ 24° ゼ06'36 27° ゼ21'03 0° ≈ 19° ≈43'07	1.45053 AU -1°48'39	minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	5512 Dec 03 02:50 5512 Dec 06 09:38 5512 Dec 09 02:45 5512 Dec 11 23:30 5512 Dec 18 12:41 5513 Jan 02 09:59 5513 Jan 07 00:40 5513 Jan 11 13:07 5513 Jan 21 05:37 5513 Jan 22 12:47 5513 Jan 22 04:21	11° \$\frac{3}{3}5'24 8° \$\frac{3}{0}0'57 5° \$\frac{3}{5}9'41 5° \$\frac{3}{1}4'08 8° \$\frac{3}{4}6'39 0° \$\frac{7}{5}24'44 14° \$\frac{3}{3}9'29 0° \$\infty\$ 2° \$\infty\$02'22 1° \$\infty\$29'18	18°21'09 -1°11'37 1°10'36

	5513 Feb 09 08:59	0°) €		max. Earth dist.	5514 Jan 06 15:40	18° る 32'35	1.44911 AU
greatest brilliancy	5513 Feb 18 06:25	13°) 53′53	-0.8m		5514 Jan 13 23:28	0°≈	
	5513 Mar 01 20:32	$0^{\circ}\Upsilon$		evening rise	5514 Jan 18 05:27	6° ≈ 33'40	
evening max el	5513 Mar 02 17:08	0° Y 54'36	19°10'45	greatest brilliancy	5514 Feb 01 20:53	28° ≈ 42'19	-0.6m
asc. node	5513 Mar 04 08:51	2° Y 27'18			5514 Feb 02 18:09	0° ∀	
retrograde	5513 Mar 09 16:32	4° Y 51'51		evening max el	5514 Feb 13 21:39	14° ¥ 28'51	20°05'22
evening set	5513 Mar 13 02:49	3° Y 43'21		asc. node	5514 Feb 19 05:54	18° ¥ 28'32	
	5513 Mar 16 23:14	30° ₹ ₩		retrograde	5514 Feb 21 14:32	18° ¥ 58′04	
inferior conj	5513 Mar 18 15:17	27°) 54′35	3°25'16	evening set	5514 Feb 25 09:06	17° ¥ 35′12	
minimum elong	5513 Mar 18 14:02	27° ¥ 58′36	3°25'09	inferior conj	5514 Mar 02 18:17	11°) 32′24	3°06'26
min. Earth dist.	5513 Mar 20 02:22	26°) €02'07	0.66235 AU	minimum elong	5514 Mar 02 16:13	11° ∺ 39'20	3°06'03
morning rise	5513 Mar 24 00:52	21° ∺ 39'35		min. Earth dist.	5514 Mar 03 15:01	10° ∺ 22'29	0.67293 AU
direct	5513 Mar 30 09:20	18° ∺ 51'34		morning rise	5514 Mar 07 23:08	5° ∺ 17'44	
desc. node	5513 Apr 09 12:24	23° ¥ 57′22		direct	5514 Mar 13 19:08	2°) 41′16	
morning max el	5513 Apr 12 03:17	26°) €26'43	26°16'31	morning max el	5514 Mar 25 12:09	9°) 41′25	24°56'37
	5513 Apr 15 10:20	0° Υ		desc. node	5514 Mar 27 09:24	11°) (40′35	
	5513 May 06 16:45	0° 8			5514 Apr 10 13:28	0° Υ	
morning set	5513 May 18 05:33	20° 8 09'24			5514 Apr 29 07:56	0°8	
max. Earth dist.	5513 May 22 05:17	27° 8 46'39	1.35022 AU	morning set	5514 Apr 30 14:27	2° 8 14'52	1 2 6 2 2 1 1 1 1
	5513 May 23 08:27	0°Щ		max. Earth dist.	5514 May 04 05:23	8° 8 48'55	1.36922 AU
superior conj	5513 May 27 05:35	7° Ⅱ 48'27	-0°41'10	superior conj	5514 May 10 16:36	21° 8 08'13	-1°11'03
minimum elong	5513 May 27 07:52	8° Ⅱ 00'06	0°40'45	minimum elong	5514 May 10 20:34	21° 8 27'42	1°10'24
asc. node	5513 May 31 08:06	16° Ⅱ 17'45			5514 May 15 03:32	$\Pi^{\circ}0$	
evening rise	5513 Jun 03 22:46	23° ∐ 48′11		asc. node	5514 May 18 05:07	6° Ⅱ 10'46	
	5513 Jun 06 23:56	0 \circ \odot		evening rise	5514 May 19 02:07	7° Ⅱ 56′15	
evening max el	5513 Jun 22 13:52	24° © 11'57	20°38'19		5514 May 31 09:51	0 \circ 50	
retrograde	5513 Jul 03 20:14	29° 5 43'39		evening max el	5514 Jun 05 03:09	5° © 40'53	19°30'00
evening set	5513 Jul 05 21:19	29° © 33'29		retrograde	5514 Jun 14 15:50	10°9520'32	
desc. node	5513 Jul 06 11:37	29° © 26'51		evening set	5514 Jun 16 14:06	10° © 09'55	
inferior conj	5513 Jul 15 03:38	25° © 36'34		desc. node	5514 Jun 23 08:38	7° © 16'12	
minimum elong	5513 Jul 14 20:37	25° © 46'38	2°30'41	inferior conj	5514 Jun 25 06:25	6° ॐ 04'25	
min. Earth dist.	5513 Jul 16 05:25	24° © 59'34	0.54856 AU	minimum elong	5514 Jun 25 04:53	6° © 06'53	0°33'43
morning rise	5513 Jul 23 19:20	21° © 31'47		min. Earth dist.	5514 Jun 27 18:37	4° © 28'27	0.55726 AU
direct	5513 Jul 27 15:45	20°559'52		morning rise	5514 Jul 03 17:05	1°528'19	
morning max el	5513 Aug 09 21:06	27° © 22'31	23°14'22	direct	5514 Jul 08 09:40	0°938'52	0.40551.40
	5513 Aug 12 11:06	0°N		morning max el	5514 Jul 22 10:26	7° © 42'10	24°57'43
asc. node	5513 Aug 27 07:24	22° Ω 31'56		,	5514 Aug 07 19:07	0°N	
. ,	5513 Aug 31 01:39	0° Mp		asc. node	5514 Aug 14 04:24	12° Ω 02'44	
morning set	5513 Sep 02 02:16	4° Mp 13'24		morning set	5514 Aug 17 13:57 5514 Aug 22 14:50	19° Ω 05′03 0° m	
superior conj	5513 Sep 09 02:41	19° m) 18'10	1°39'01		3314 Aug 22 14.30	עוו ט	
minimum elong	5513 Sep 09 02:41	19° m) 11'04	1°38'57	superior conj	5514 Aug 24 12:06	4° m 08'06	1°29'07
max. Earth dist.	5513 Sep 11 19:33	25° Mp 03'14		minimum elong	5514 Aug 24 10:04	3° m) 56'55	1°28'54
max. Earth dist.	5513 Sep 14 04:37	0∘ ರ	1.55500710	max. Earth dist.	5514 Aug 25 23:59	7° m/23'51	1.32598 AU
evening rise	5513 Sep 16 18:35	5° ≏ 13'01		evening rise	5514 Aug 31 16:33	19° m) 27'47	1.52070110
	5513 Sep 30 14:03	0°M		0.108	5514 Sep 06 00:40	0∘ ⊽	
desc. node	5513 Oct 02 10:52	2°M56'53		desc. node	5514 Sep 19 07:53	22° ≏ 22'32	
evening max el	5513 Oct 21 01:23	26°M45'07	27°19'16		5514 Sep 24 20:04	0° M	
-	5513 Oct 24 20:06	0°⊀		evening max el	5514 Oct 03 11:38		27°26'22
retrograde	5513 Nov 03 13:11	4° ∡ °03′21		retrograde	5514 Oct 17 05:18	17° M L00'31	
evening set	5513 Nov 10 12:29	1° х 24′30		evening set	5514 Oct 24 09:24	14° M 30'19	
	5513 Nov 12 04:41	30°RM		min. Earth dist.	5514 Oct 28 00:58	11°M29'32	0.62821 AU
min. Earth dist.	5513 Nov 14 07:55	27°M53'17	0.64556 AU	inferior conj	5514 Oct 30 20:14	8°M47'34	-3°15'52
inferior conj	5513 Nov 16 15:45	25° M $23'04$	-2°11'54	minimum elong	5514 Oct 31 01:52	8°M33'57	3°13'57
minimum elong	5513 Nov 16 19:37	25°M12'38	2°10'21	morning rise	5514 Nov 06 20:02	3° ™ 37'27	
morning rise	5513 Nov 23 04:01	19°M55'31		direct	5514 Nov 09 04:56	3°M11'30	
asc. node	5513 Nov 23 06:40	19°M52'42		asc. node	5514 Nov 10 03:41	3°M15′45	
direct	5513 Nov 25 17:31	19°M21'35		morning max el	5514 Nov 15 21:40	6° M 37'51	17°49'24
morning max el	5513 Dec 02 04:58	22°M46'49	17°56'27	_	5514 Dec 01 02:42	0° ∡	
	5513 Dec 07 21:46	0° ∡ 7		morning set	5514 Dec 02 00:12	1° ∡ ′34'55	
morning set	5513 Dec 19 12:33	18° ₹ 55'44				- -	0040:
	5513 Dec 26 03:51	0°る		superior conj	5514 Dec 13 14:44	21° × ⁷ 38'52	0°18'58
desc. node	5513 Dec 29 10:08	5° る 20'49		minimum elong	5514 Dec 13 16:35	21° х 46'36	0°18'43
	5514 Y 00 01 5	1107	0025124	desc. node	5514 Dec 16 07:08	26° ∡ ¹06'31	
superior conj	5514 Jan 02 01:50	11° ろ 15'20		Г. И. Г.	5514 Dec 18 16:10	0°궁	1 42701 433
minimum elong	5514 Jan 01 22:48	11° る 03'10	0 243/	max. Earth dist.	5514 Dec 20 08:43	2° る 44'04	1.43781 AU

evening rise	5514 Dec 28 16:10	15° る 50'46			5515 Dec 11 07:28	0°₹	
evening rise	5515 Jan 07 00:01	0°≈			5515 Dec 31 20:55	0°≈	
evening max el	5515 Jan 27 20:37	0 ∞ 28°≈03'43	2101254	evening max el	5516 Jan 10 14:26	0 ≈ 11°≈40'15	22°29'22
evening max er	5515 Jan 29 21:47	28 ≈03 43 0° \	21 12 34	•	5516 Jan 20 08:53	17°≈28'42	22 29 22
. 1				retrograde			
retrograde	5515 Feb 05 12:32	3°) 11'32		asc. node	5516 Jan 23 23:57	16°≈20'05	
asc. node	5515 Feb 06 02:56	3°) €09'37		evening set	5516 Jan 25 00:19	15°≈35'12	2000112
evening set	5515 Feb 09 16:49	1°) 33'31		inferior conj	5516 Jan 30 08:53	9°≈12'50	2°00'12
	5515 Feb 11 08:45	30°R≈		minimum elong	5516 Jan 30 06:38	9° ≈ 20'38	1°59'27
inferior conj	5515 Feb 15 00:49	25°≈19'18		min. Earth dist.	5516 Jan 30 04:53	9° ≈ 26'42	0.68152 AU
minimum elong	5515 Feb 14 22:26	25° ≈ 27'33	2°36'56	morning rise	5516 Feb 04 12:50	3°≈03'17	
min. Earth dist.	5515 Feb 15 08:35	24° ≈ 52′23	0.67925 AU	direct	5516 Feb 09 03:57	1° ≈ 07'54	
morning rise	5515 Feb 20 03:53	19° ≈ 06'30		morning max el	5516 Feb 18 09:11	6°≈31'54	22°00'06
direct	5515 Feb 25 09:36	16° ≈ 48'50		desc. node	5516 Feb 29 03:27	19° ≈ 40'57	
morning max el	5515 Mar 07 21:05	23°≈02'41	23°27'57		5516 Mar 07 09:53	0° ∀	
	5515 Mar 13 23:53	0° ∀		morning set	5516 Mar 22 06:12	22°) 48'45	
desc. node	5515 Mar 14 06:25	0° ∺ 20′20			5516 Mar 26 15:51	0° Υ	
	5515 Apr 03 22:24	0° Υ		max. Earth dist.	5516 Mar 27 23:10	2° Y 10'20	1.41256 AU
morning set	5515 Apr 12 00:18	13° Υ 11'38					
max. Earth dist.	5515 Apr 16 01:00	20° Ƴ 07'19	1.39084 AU	superior conj	5516 Apr 04 16:39	15° Y 27'59	
	5515 Apr 21 13:13	$8^{\circ 0}$		minimum elong	5516 Apr 04 21:04		1°59'16
					5516 Apr 12 16:57	$_{0\circ}$ 8	
superior conj	5515 Apr 23 13:50	3° 8 44'59	-1°38'26	evening rise	5516 Apr 15 05:51	4° 8 42'18	
minimum elong	5515 Apr 23 18:54	4° 8 08'38	1°37'50	asc. node	5516 Apr 20 23:12	15° 8 10'49	
evening rise	5515 May 02 21:38	21° 8 37'11			5516 Apr 30 22:24	Π $^{\circ}0$	
asc. node	5515 May 05 02:10	25° 8 50'15		evening max el	5516 May 01 11:17	0° Ⅱ 32'37	18°14'29
	5515 May 07 07:00	Π $^{\circ}0$		retrograde	5516 May 08 12:34	4° Ⅱ 04'51	
evening max el	5515 May 19 03:24	17° Ⅱ 50'19	18°42'06	evening set	5516 May 10 22:59	3° Ⅱ 40′23	
retrograde	5515 May 27 04:49	21° Ⅱ 48'35			5516 May 16 19:20	30° ₹ 8	
evening set	5515 May 29 08:14	21° Ⅲ 32'45		inferior conj	5516 May 18 00:39	28° 8 56'57	2°23'35
inferior conj	5515 Jun 06 04:45	17° Ⅲ 09'31	1°09'28	minimum elong	5516 May 18 04:04	28° 8 49'26	2°22'40
minimum elong	5515 Jun 06 07:12	17° Ⅱ 04'55	1°08'36	min. Earth dist.	5516 May 21 10:24	25° 8 59'41	0.59456 AU
min. Earth dist.	5515 Jun 09 11:36	14° Ⅱ 43'15	0.57361 AU	morning rise	5516 May 25 06:19	23° 8 15'18	
desc. node	5515 Jun 10 05:38	14° Ⅱ 11'47		desc. node	5516 May 27 02:41	22° 8 19'54	
morning rise	5515 Jun 14 02:51	11° Ⅱ 57'04		direct	5516 May 31 14:56	21° 8 23'26	
direct	5515 Jun 19 17:23	10° Ⅲ 39'30		morning max el	5516 Jun 15 00:04	29° 8 14'30	27°28'18
morning max el	5515 Jul 04 02:15	18° Ⅲ 12'04	26°27'14	_	5516 Jun 15 18:13	$\Pi^{\circ}0$	
	5515 Jul 13 22:45	0°€			5516 Jul 06 19:52	0° ©	
	5515 Jul 31 04:02	$0^{\circ}\Omega$		morning set	5516 Jul 16 08:20	18° 5 28'59	
asc. node	5515 Aug 01 01:26	1° Ω 50'54		asc. node	5516 Jul 17 22:27	21° 9 50'01	
morning set	5515 Aug 02 00:33	3° Ω 52′23			5516 Jul 21 16:53	$0^{\circ}\Omega$	
superior conj	5515 Aug 08 23:36	19° Ω 02'16	1°14'13	superior conj	5516 Jul 23 11:18	3° Ω 53'47	0°54'52
minimum elong	5515 Aug 08 21:18	18° Ω 49'34	1°13'52	minimum elong	5516 Jul 23 09:13	3° Ω 42'17	0°54'28
max. Earth dist.	5515 Aug 09 09:39	19° Ω 57'46	1.32033 AU	max. Earth dist.	5516 Jul 22 20:48	2° Ω 33'45	1.31894 AU
	5515 Aug 13 23:54	O° Mp		evening rise	5516 Jul 30 06:21	18° Ω 44'27	
evening rise	5515 Aug 15 21:18	4° Mp 01'03			5516 Aug 04 18:41	0° m)	
	5515 Aug 29 18:28	0∘ ⊽		desc. node	5516 Aug 23 01:56	28° m 47'30	
desc. node	5515 Sep 06 04:54	11° ≏ 05'29			5516 Aug 24 03:06	0∘ ত	
evening max el	5515 Sep 15 16:56	22° ≏ 06'13	27°00'38	evening max el	5516 Aug 27 14:58	3° ≏ 38'02	26°02'02
retrograde	5515 Sep 29 14:03	29° ≙ 17'14		retrograde	5516 Sep 10 14:06	10° ≙ 45'13	
evening set	5515 Oct 06 14:33	27° £ 07'25		evening set	5516 Sep 16 23:01	9° ჲ 07'34	
min. Earth dist.	5515 Oct 10 07:13	24° £ 27'32	0.60840 AU	min. Earth dist.	5516 Sep 21 03:42	6° £ 32'25	0.58765 AU
inferior conj	5515 Oct 13 11:09	21° ≏ 46'40	-4°15'18	inferior conj	5516 Sep 24 08:55	4° ₽ 10'03	-5°01'22
minimum elong	5515 Oct 13 17:34	21° ≙ 33'00	4°13'41	minimum elong	5516 Sep 24 13:47	4° ≙ 01'02	5°00'41
morning rise	5515 Oct 20 22:37	16° ≏ 57'25		3	5516 Oct 01 09:15	30°R, Mp	
direct	5515 Oct 23 05:57	16° ≏ 36'20		morning rise	5516 Oct 02 06:50	29° m 43'38	
asc. node	5515 Oct 28 00:42	18° ≏ 11′20		direct	5516 Oct 04 16:04	29° m 24'47	
morning max el	5515 Oct 30 11:40	20° ♀ 12'21	18°01'01		5516 Oct 07 20:03	0∘ ⊽	
-	5515 Nov 06 18:30	0°M		morning max el	5516 Oct 12 19:28	3° ₽ 20′03	18°32'43
morning set	5515 Nov 15 05:12	15°M03'13		asc. node	5516 Oct 13 21:44	4° £ 26'58	
-	5515 Nov 23 09:07	0° ∡ ¹		morning set	5516 Oct 28 22:18	29° ≙ 05'06	
					5516 Oct 29 09:40	0° M	
superior conj	5515 Nov 25 05:49	3° ∡ 18'45	0°54'47				
minimum elong	5515 Nov 25 09:37	3° ₹ 35'30	0°54'18	superior conj	5516 Nov 06 18:52	16°ML01'52	1°20'13
max. Earth dist.	5515 Dec 02 20:52	16° х 23′09	1.42099 AU	minimum elong	5516 Nov 06 22:22	16°ML18'11	1°19'51
desc. node	5515 Dec 03 04:10	16° ₹ 53'30		max. Earth dist.	5516 Nov 14 03:41	29°M18'28	1.40074 AU
evening rise	5515 Dec 08 14:07	25° х 41′50			5516 Nov 14 13:15	0° ∡ ¹	
-							

	551637 10 00 50	60 30 010 5			551531 05 00 10	200 m 1 5122	
evening rise	5516 Nov 18 08:58	6° ≯ 30′05		desc. node	5517 Nov 05 22:13	28°M15'23	
desc. node	5516 Nov 19 01:12	7° ₹ 37'42			5517 Nov 06 23:44	0°⊀	
	5516 Dec 03 09:56	o°ප			5517 Nov 27 16:51	o°ප	
evening max el	5516 Dec 23 04:45	25°る20'07	23°49'28	evening max el	5517 Dec 05 17:39	9° ට 03'45	25°06'29
•	5516 Dec 28 20:11	0° ≈		retrograde	5517 Dec 17 15:07	15° る 56'47	
retrograde	5517 Jan 03 02:09	1°≈45'24		evening set	5517 Dec 23 08:27	13° る 34'03	
retrograde				•			
_	5517 Jan 07 18:30	30°Rる		asc. node	5517 Dec 27 18:03	8° る 40'23	
evening set	5517 Jan 08 06:05	29° る 36'38		min. Earth dist.	5517 Dec 27 20:18	8° ප 33'08	0.67490 AU
asc. node	5517 Jan 09 20:59	28° る 01'58		inferior conj	5517 Dec 28 22:16	7° る 08'13	0°23'49
min. Earth dist.	5517 Jan 13 01:36	24° る 01'29	0.67999 AU	minimum elong	5517 Dec 28 21:41	7° る 10'09	0°23'36
inferior conj	5517 Jan 13 16:39	23° る 10'15	1°15'21	morning rise	5518 Jan 03 11:07	1° る 10'39	
minimum elong	5517 Jan 13 15:00	23° る 15'51	1°14'43	direct	5518 Jan 06 23:56	29° ∡ 758'42	
		17° පි 05'38	1 1445	direct		30°R.★	
morning rise	5517 Jan 18 23:55				5518 Jan 06 12:23	•	
direct	5517 Jan 23 01:11	15° る 32'50			5518 Jan 07 11:34	0°₹	
morning max el	5517 Jan 31 03:39	20°る11'45	20°40'36	morning max el	5518 Jan 14 06:01	4° る 02'33	19°34'08
	5517 Feb 08 06:30	0° ≈		greatest brilliancy	5518 Jan 27 06:19	21° る 13'05	-0.7m
desc. node	5517 Feb 15 00:30	9° ≈ 31'10		desc. node	5518 Feb 01 21:30	29° る 42'22	
	5517 Feb 28 14:39	0° ∀			5518 Feb 02 02:08	0° ≈	
		1°) 17'34			5518 Feb 08 07:27	0 ~ 9° ≈ 32'49	
morning set	5517 Mar 01 10:38			morning set		,	
max. Earth dist.	5517 Mar 10 04:07	15° ∺ 07'51	1.43157 AU	max. Earth dist.	5518 Feb 20 16:35	28°≈52'55	1.44551 AU
					5518 Feb 21 09:30	0° ℋ	
superior conj	5517 Mar 16 20:19	26°) €07'18	-2°09'16				
minimum elong	5517 Mar 16 20:59	26° ₩ 10'02	2°09'16	superior conj	5518 Feb 24 22:31	5° ₩ 39'13	-2°01'58
	5517 Mar 19 03:29	0°Υ		minimum elong	5518 Feb 24 16:48	5° ¥ 16'18	
avanina riaa	5517 Mar 28 22:34	17° Υ 02'19		Č	5518 Mar 10 19:12	28°) (27'49	2 01 40
evening rise				evening rise			
	5517 Apr 05 08:29	0°8			5518 Mar 11 17:07	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	5517 Apr 07 20:15	4° 8 06'11		asc. node	5518 Mar 25 17:19	22° Y 27'32	
evening max el	5517 Apr 14 23:21	13° 8 38'49	18°06'27	evening max el	5518 Mar 29 12:19	26° Y 59'32	18°17'18
retrograde	5517 Apr 21 11:52	17° 8 00'42			5518 Apr 02 17:53	9° 8	
evening set	5517 Apr 24 05:02	16° 8 25'16		retrograde	5518 Apr 04 22:13	0° 8 25'25	
inferior conj	5517 Apr 30 15:26	11° 8 21'44	3°08'07		5518 Apr 07 02:17	30°RY	
·	-	11° 8 15'31	3°07'42		-	29° Y 37'40	
minimum elong	5517 Apr 30 17:55	_		evening set	5518 Apr 07 21:48		
min. Earth dist.	5517 May 03 16:53	8° 8 18'32	0.61672 AU	inferior conj	5518 Apr 13 20:56	24° Y 15′06	
morning rise	5517 May 07 04:56	5° 8 21'52		minimum elong	5518 Apr 13 21:50	24° Ƴ 12'35	3°28'34
direct	5517 May 13 23:37	2° 8 59'04		min. Earth dist.	5518 Apr 16 08:19	21° Y 28'28	0.63723 AU
desc. node	5517 May 13 23:43	2° 8 59'04		morning rise	5518 Apr 19 20:53	18° Ƴ 05'30	
morning max el	5517 May 28 04:00		27°52'51	direct	5518 Apr 26 16:50	15° Y 22'43	
morning max cr			27 3231		•	16°Υ15'14	
	5517 Jun 12 01:28	0° Ⅱ		desc. node	5518 Apr 30 20:46		
	5517 Jun 29 02:05	0 \circ \odot		morning max el	5518 May 10 12:14	23° Y 21'38	27°40'03
morning set	5517 Jun 30 11:24	2° © 48'57			5518 May 16 10:06	9° 8	
asc. node	5517 Jul 04 19:31	11° © 55'31			5518 Jun 05 08:45	Π $^{\circ}0$	
max. Earth dist.	5517 Jul 06 05:41	14°959'58	1.32186 AU	morning set	5518 Jun 14 07:20	16° Ⅱ 44'34	
				max. Earth dist.	5518 Jun 19 08:27		1.32925 AU
superior conj	5517 Jul 07 21:31	18° © 37'06	0°31'38	man. Darm dist.	5518 Jun 20 17:34	0°9	1.52,20110
						2° © 02'39	
minimum elong	5517 Jul 07 20:07	18°9529'28	0°31'19	asc. node	5518 Jun 21 16:33	2-2002.39	
	5517 Jul 13 02:22	$0^{\circ}\Omega$					
evening rise	5517 Jul 14 17:44	3° Ω 31'42		superior conj	5518 Jun 22 04:20	3° © 05'44	0°05'06
	5517 Jul 28 21:03	O° Mp		minimum elong	5518 Jun 22 04:04	3° 5 04'23	0°05'01
evening max el	5517 Aug 09 06:00	14° Mp 24′29	24°37'11	behind sun begin	5518 Jun 21 22:58	2°537'00	
desc. node	5517 Aug 09 22:57	15° mp 04'18		behind sun end	5518 Jun 22 09:11	3° © 31'48	
	5517 Aug 23 02:59				5518 Jun 29 05:28	18°916'08	
retrograde	•	21° Tp 24'01		evening rise			
evening set	5517 Aug 28 07:02	20° Mp 24'10			5518 Jul 04 23:47	0 \circ Ω	
min. Earth dist.	5517 Sep 02 17:15	17° Mp 35'06	0.56854 AU	evening max el	5518 Jul 21 18:34	24° Ω 45'42	22°59'49
inferior conj	5517 Sep 05 10:51	15° ™ 49'40	-5°19'54	desc. node	5518 Jul 27 19:59	29° Ω 24'13	
minimum elong	5517 Sep 05 10:43	15° m 49'53	5°19'54		5518 Jul 29 00:06	0° m ⁄	
morning rise	5517 Sep 13 16:46	11° m)44'44		retrograde	5518 Aug 04 03:01	1° m/25'40	
direct	5517 Sep 16 07:46	11° m) 25'43		evening set	5518 Aug 07 18:39	0° m 56'33	
	•	-	10025150	evening set	•		
morning max el	5517 Sep 25 17:40	15° Mp 51'00	19°25'59		5518 Aug 10 12:26	30°R€	0.55.55
asc. node	5517 Sep 30 18:47	21° m 47'39		min. Earth dist.	5518 Aug 15 03:15	27° Ω 38'18	0.55427 AU
	5517 Oct 05 22:10	0∘ ⊽		inferior conj	5518 Aug 16 17:23	26° Ω 43'15	-4°54'06
morning set	5517 Oct 12 23:44	13° ≏ 30'17		minimum elong	5518 Aug 16 10:46	26° Ω 52'50	4°53'04
				morning rise	5518 Aug 25 05:04	22° Ω 52'28	
superior conj	5517 Oct 21 00:32	29° ₽ 33'12	1°35'44	direct	5518 Aug 28 04:58	22° Ω 31'18	
		29° £ 43'52			-	$27^{\circ} \Omega 37'17$	20041111
minimum elong	5517 Oct 21 02:43		1°35'36	morning max el	5518 Sep 08 03:53		20 4111
	5517 Oct 21 06:01	0°M		_	5518 Sep 10 11:35	0° m	
max. Earth dist.	5517 Oct 27 08:26	11°M34'43	1.37963 AU	asc. node	5518 Sep 17 15:50	9° m 59'08	
evening rise	5517 Oct 31 02:33	18° M ⋅20'08		morning set	5518 Sep 27 06:41	28° Mp 11'11	

	5518 Sep 28 03:47	0∘ ⊽		morning set	5519 Sep 11 16:53	13° Mp 00'41	
superior conj	5518 Oct 04 18:13	13° ≏ 39'57	1°42'37	superior conj	5519 Sep 18 20:09	28° m 10'29	1°42'10
minimum elong	5518 Oct 04 18:51	13° ≏ 43'12	1°42'37	minimum elong	5519 Sep 18 19:27	28°M) 06'43	1°42'09
max. Earth dist.	5518 Oct 09 16:30	23° △ 30'48	1.35996 AU		5519 Sep 19 16:57	0∘ 亚	
	5518 Oct 13 02:05	0° M		max. Earth dist.	5519 Sep 22 07:49	5° ≏ 26'41	1.34347 AU
evening rise	5518 Oct 13 16:01	1° M 04'54		evening rise	5519 Sep 26 21:07	14° ≏ 32'55	
desc. node	5518 Oct 23 19:13	18°M42'10			5519 Oct 05 07:35	0° M	
	5518 Oct 31 02:09	0° ∡		desc. node	5519 Oct 10 16:14	8°M51'49	
evening max el	5518 Nov 18 06:28	22° ∡ °47'53	26°13'02		5519 Oct 25 20:28	0° ∡ 7	
retrograde	5518 Nov 30 23:00	29° ₹ 58'02		evening max el	5519 Oct 31 19:10	6° ∡ ¹23'35	27°01'51
evening set	5518 Dec 07 05:41	27° ₹ 24'09		retrograde	5519 Nov 14 01:19	13° ⋌ '41'25	
min. Earth dist.	5518 Dec 11 10:36	22° ₹ 58'27	0.66630 AU	evening set	5519 Nov 20 19:40	11° ⋌ *01'49	
inferior conj	5518 Dec 12 23:52	21° × 03'51		min. Earth dist.	5519 Nov 24 18:11	7° ₹ 11'26	0.65415 AU
minimum elong	5518 Dec 13 00:46	21° x ⁷ 01'05	0°33'00	inferior conj	5519 Nov 26 19:17	4° ₹ 52'02	
asc. node	5518 Dec 14 15:05	19° ₹ 05'50		minimum elong	5519 Nov 26 22:01	4° х ⁷ 44'15 0° х ⁷ 13'33	1°33'5/
morning rise	5518 Dec 18 20:25	15° ₹ 15'50		asc. node	5519 Dec 01 12:07		
direct	5518 Dec 21 22:31 5518 Dec 28 15:40	14° 尽 21'38 18° 尽 02'11	18°43'09	mamina riaa	5519 Dec 01 19:45 5519 Dec 03 01:25	30° R ጤ 29° ጤ 16'25	
morning max el	5519 Jan 06 19:40	18 x・02 11 0°る	18 43 09	morning rise direct	5519 Dec 05 01.23	29 IL1623 28°M36'16	
morning set	5519 Jan 18 21:39	18° る 46'51		direct	5519 Dec 09 19:11	28 IIC30 10 0° √	
desc. node	5519 Jan 19 18:31	20°る08'58		morning max el	5519 Dec 12 06:21	2° × 104'16	18°08'36
desc. node	5519 Jan 26 00:57	20° ≈		morning set	5519 Dec 30 16:58	29° × ⁷ 28'50	10 00 30
max. Earth dist.	5519 Feb 03 10:26	13° ≈ 09'39	1.45274 AU	morning set	5519 Dec 31 00:35	0°る	
man zarin dibi.	2017100 03 10.20	15 (0,0)	1027.1110	desc. node	5520 Jan 06 15:30	00 10° る 45'51	
superior conj	5519 Feb 04 05:18	14° ≈ 23'42	-1°34'47				
minimum elong	5519 Feb 03 19:51	13° ≈ 46'34		superior conj	5520 Jan 14 10:09	23° る 10'02	-0°52'25
Č	5519 Feb 14 02:33	0°) {		minimum elong	5520 Jan 14 03:44	22° る 44'40	0°51'33
evening rise	5519 Feb 19 16:46	8° ¥ 56′09		max. Earth dist.	5520 Jan 17 05:54	27° る 36'44	1.45252 AU
greatest brilliancy	5519 Feb 27 01:58	20°) 46′57	-0.9m		5520 Jan 18 18:25	0° ≈	
	5519 Mar 04 23:46	0° Y		evening rise	5520 Jan 30 16:33	18° ≈ 34'22	
asc. node	5519 Mar 12 14:21	10° Y ′04'45			5520 Feb 07 01:44	0°) €	
evening max el	5519 Mar 12 23:29	10° Y ′28′23	18°46'16	greatest brilliancy	5520 Feb 12 07:33	7° ¥ 59'43	-0.7m
retrograde	5519 Mar 19 15:40	14° Y 11'02		evening max el	5520 Feb 24 06:42	24° ₩ 00'37	19°32'10
evening set	5519 Mar 22 21:51	13° Y 10'11		asc. node	5520 Feb 27 11:23	26°) 44′57	
inferior conj	5519 Mar 28 13:18	7° Y 30'12	3°30'44	retrograde	5520 Mar 02 12:51	28° ¥ 10'51	
minimum elong	5519 Mar 28 12:44	7° Ƴ 31'58	3°30'41	evening set	5520 Mar 06 02:28	26° ¥ 56'16	
min. Earth dist.	5519 Mar 30 09:02	5° Y 15'35	0.65435 AU	inferior conj	5520 Mar 11 13:12	21° ∺ 00'59	3°18'40
morning rise	5519 Apr 03 03:08	1° Υ 16'10		minimum elong	5520 Mar 11 11:34	21° 米 06′25	
	5519 Apr 04 19:16	30° ₹		min. Earth dist.	5520 Mar 12 17:57	19° ¥ 26′28	0.66730 AU
direct	5519 Apr 09 17:10	28°) € 26'42		morning rise	5520 Mar 16 20:23	14°) 45'45	
	5519 Apr 15 02:55	0°Υ 1° Ω (40)22		direct	5520 Mar 22 23:43	12°) €01'45	
desc. node	5519 Apr 17 17:48	1° Υ '40'22	26954122	desc. node	5520 Apr 03 14:49	18°) € 41'07	25944122
morning max el	5519 Apr 22 22:23	6° Ƴ 14'15 0° ႘	20-34-33	morning max el	5520 Apr 04 08:07	19°) 24'12 0° \'	25*44 25
morning set	5519 May 11 04:24 5519 May 28 17:06	0° П 07'16			5520 Apr 13 08:34 5520 May 03 06:32	0°8	
morning set	5519 May 28 17:00 5519 May 28 15:35	0°П0710		morning set	5520 May 10 12:38	12° 8 45'40	
max. Earth dist.	5519 Jun 02 01:40		1.34127 AU	max. Earth dist.	5520 May 14 07:32	19° 8 50'32	1.35780 AU
man zarur uiov.	02 01.10	0 2 .001	1.5 112 / 110	man. Baran dist.	2020 1144 11 07:32	1, 00002	1.50,00110
superior conj	5519 Jun 06 05:36	17° Ⅱ 13'33	-0°23'53	superior conj	5520 May 19 22:44	0° Ⅱ 53'27	-0°53'57
minimum elong	5519 Jun 06 06:53	17° Ⅱ 20′14		minimum elong	5520 May 20 01:46	1° Ⅱ 08'39	0°53'25
asc. node	5519 Jun 08 13:35	22° Ⅱ 07'37			5520 May 19 12:05	$\Pi^{\circ}0$	
	5519 Jun 12 06:56	0 \circ \odot		asc. node	5520 May 25 10:37	12° Ⅱ 06′29	
evening rise	5519 Jun 13 15:40	2° © 51'48		evening rise	5520 May 27 22:14	17° Ⅱ 12'21	
	5519 Jun 28 23:14	$0^{\circ}\Omega$			5520 Jun 03 11:01	0 \circ \odot	
evening max el	5519 Jul 03 12:46	5° Ω 14'56	21°25'54	evening max el	5520 Jun 14 18:46	16°919'47	20°06'50
desc. node	5519 Jul 14 17:01	11° Ω 14′01		retrograde	5520 Jun 25 07:38	21° © 29'27	
retrograde	5519 Jul 15 17:19	11° Ω 16'27		evening set	5520 Jun 27 05:42	21° © 19'54	
evening set	5519 Jul 18 03:27	11° Ω 03′00		desc. node	5520 Jun 30 14:03	20° 5 21'47	
inferior conj	5519 Jul 27 11:36	7° Ω 03'30		inferior conj	5520 Jul 06 07:20	17° © 20'45	
minimum elong	5519 Jul 27 02:47	7° Ω 15'50		minimum elong	5520 Jul 06 02:33	17° © 27'55	
min. Earth dist.	5519 Jul 27 13:09		0.54789 AU	min. Earth dist.	5520 Jul 08 01:13	16°5518'20	0.55110 AU
morning rise	5519 Aug 05 03:03	3°Ω10'11		morning rise	5520 Jul 14 21:51	13°503'54	
direct	5519 Aug 08 14:24	2° Ω 44'07	22015110	direct	5520 Jul 19 01:52	12°526'06	22050155
morning max el	5519 Aug 21 02:28	8° Ω 38'18	22~15'10	morning max el	5520 Aug 01 17:37	19° © 07'41	23°58'57
asc. node	5519 Sep 04 12:51	28° Ω 48'52 0° m		asa nada	5520 Aug 10 19:31	0°Ω 18°Ω07'22	
	5519 Sep 05 04:17	עוו ט		asc. node	5520 Aug 21 09:52	18° Ω 07'23	

morning set	5520 Aug 26 04:31	27° Ω 53'30		min. Earth dist.	5521 Jun 19 16:09	26°∏03'44	0.56338 AU
morning set	5520 Aug 27 04:17	0° m)		morning rise	5521 Jun 24 23:48	23° I I1'01	0.50556 AC
	3320 Hug 27 0 H.17	Ų. ių		direct	5521 Jun 30 01:54	22° I I10'34	
superior conj	5520 Sep 02 03:34	12° m 56'13	1°35'29	morning max el	5521 Jul 14 07:23	29° I I28'38	25°38'18
minimum elong	5520 Sep 02 01:53	12° Mp 47'06	1°35'21		5521 Jul 14 20:16	0°ಅ	
max. Earth dist.	5520 Sep 04 07:41	17° m) 36'50	1.33111 AU		5521 Aug 04 08:38	$0^{\circ}\Omega$	
evening rise	5520 Sep 09 13:57	28° m 33'56		asc. node	5521 Aug 08 06:54	7° Ω 46'22	
<i>8</i>	5520 Sep 10 07:06	0∘ ⊽		morning set	5521 Aug 10 15:57	12° Ω 43'59	
desc. node	5520 Sep 26 13:16	28° £ 36'40		· ·	Č		
	5520 Sep 27 11:20	0°M₊		superior conj	5521 Aug 17 14:07	27° Ω 49'03	1°23'24
evening max el	5520 Oct 13 06:47	19° M 40'26	27°25'55	minimum elong	5521 Aug 17 11:55	27° Ω 36'55	1°23'06
retrograde	5520 Oct 26 21:40	26°M58'28		max. Earth dist.	5521 Aug 18 14:34	0° ™ 03'19	1.32308 AU
evening set	5520 Nov 02 23:48	24°M21'37			5521 Aug 18 13:58	0° m/	
min. Earth dist.	5520 Nov 06 17:04	21°ML04'18	0.63857 AU	evening rise	5521 Aug 24 15:09	12° m 57'52	
inferior conj	5520 Nov 09 06:04	18°M27'25	-2°39'13	Č	5521 Sep 02 09:59	0° ق	
minimum elong	5520 Nov 09 10:44	18°M15'22	2°37'27	desc. node	5521 Sep 13 10:19	17° ≏ 46'07	
morning rise	5520 Nov 15 23:12	13°ML07'09			5521 Sep 23 05:05	0°M	
asc. node	5520 Nov 17 09:08	12°M42'40		evening max el	5521 Sep 25 15:18	2°M25'44	27°19'31
direct	5520 Nov 18 10:18	12°MJ37'10		retrograde	5521 Oct 09 11:04	9°M39'28	
morning max el	5520 Nov 24 23:15	16°ML01'56	17°51'13	evening set	5521 Oct 16 14:36	7°M16'37	
	5520 Dec 04 21:18	0° ∡ ¹		min. Earth dist.	5521 Oct 20 05:49	4°M25'57	0.62001 AU
morning set	5520 Dec 11 15:42	11° х 30'49		inferior conj	5521 Oct 23 05:13	1°M42'35	-3°42'06
	5520 Dec 22 14:43	0°ರ		minimum elong	5521 Oct 23 11:23	1°M28'26	3°40'12
desc. node	5520 Dec 23 12:30	1° る 29'25		•	5521 Oct 25 03:11	30° Ŗ Ω	
				morning rise	5521 Oct 30 10:03	26° ₽ 40'51	
superior conj	5520 Dec 24 08:22	2° る 50'38	-0°05'51	direct	5521 Nov 01 17:44	26° ≏ 17'26	
minimum elong	5520 Dec 24 07:43	2° る 47'59	0°05'43	asc. node	5521 Nov 04 06:09	26° ≏ 45'56	
behind sun begin	5520 Dec 23 22:27	2°る10'05		morning max el	5521 Nov 08 15:12	29° ≏ 47'13	17°51'54
behind sun end	5520 Dec 24 17:00	3° ⋜ 25'49			5521 Nov 08 20:20	0°M	
max. Earth dist.	5520 Dec 30 00:02	11° පි 56'51	1.44505 AU	morning set	5521 Nov 24 11:31	24°M33'25	
evening rise	5521 Jan 09 03:37	27° る 47'48			5521 Nov 27 12:08	0° ∡ ¹	
-	5521 Jan 10 14:05	0° ≈					
	5521 Jan 31 01:10	0°) €		superior conj	5521 Dec 05 08:41	13° ∡ ¹47'42	0°35'24
evening max el	5521 Feb 06 08:46	7°) 34′26	20°32'48	minimum elong	5521 Dec 05 11:43	14° ₹ ¹00'40	0°34'59
asc. node	5521 Feb 13 08:24	12°) 13′26		desc. node	5521 Dec 10 09:33	22° ҂ 16′23	
retrograde	5521 Feb 14 11:07	12°) € 20′03		max. Earth dist.	5521 Dec 12 14:52	25° ₹ 55'20	1.43123 AU
evening set	5521 Feb 18 09:32	10°) 50′59			5521 Dec 15 03:21	0°ರ	
inferior conj	5521 Feb 23 17:58	4°) 42′55	2°55'20	evening rise	5521 Dec 19 17:28	7° る 15'55	
minimum elong	5521 Feb 23 15:43	4°) € 50'38	2°54'50		5522 Jan 03 20:34	0° ≈	
min. Earth dist.	5521 Feb 24 09:05	3°) 51'14	0.67604 AU	evening max el	5522 Jan 20 05:31	21° ≈ 10′36	21°44'45
	5521 Feb 27 09:47	30°R ≈		retrograde	5522 Jan 29 08:34	26° ≈ 35'41	
morning rise	5521 Feb 28 21:41	28° ≈ 28'37		asc. node	5522 Jan 31 05:26	26°≈17'07	
direct	5521 Mar 06 11:41	25° ≈ 59'21		evening set	5522 Feb 02 17:20	24° ≈ 51′20	
	5521 Mar 14 19:31	0°) €		inferior conj	5522 Feb 08 01:24	18° ≈ 33'25	2°22'41
morning max el	5521 Mar 17 16:45	2°) 41'44	24°19'23	minimum elong	5522 Feb 07 23:01	18° ≈ 41'41	2°21'59
desc. node	5521 Mar 21 11:49	6° 升 50′27		min. Earth dist.	5522 Feb 08 04:09	18° ≈ 23'53	0.68069 AU
	5521 Apr 07 11:46	0 ° $\mathbf{\Upsilon}$		morning rise	5522 Feb 13 04:31	12° ≈ 21'44	
morning set	5521 Apr 22 12:28	24° Y 23'56		direct	5522 Feb 18 04:05	10° ≈ 13′01	
	5521 Apr 25 16:31	0° 8		morning max el	5522 Feb 28 02:24	16° ≈ 05'36	22°49'56
max. Earth dist.	5521 Apr 26 04:25	0° 8 53'29	1.37810 AU	desc. node	5522 Mar 08 08:50	25° ≈ 49'27	
					5522 Mar 11 11:52	0° ∀	
superior conj	5521 May 03 04:22	13° 8 55'58	-1°23'10		5522 Mar 31 12:29	0 $^{\circ}$ Υ	
minimum elong	5521 May 03 08:56	14° 8 17'55	1°22'30	morning set	5522 Apr 03 10:46	4° Ƴ 47'18	
	5521 May 11 08:34	$\Pi^{\circ}0$		max. Earth dist.	5522 Apr 07 23:56	12° Y 26'46	1.40022 AU
evening rise	5521 May 11 22:36	1° Ⅱ 09'34					
asc. node	5521 May 12 07:39	1° Ⅱ 54'17		superior conj	5522 Apr 15 18:24	26° Ƴ 11'35	-1°48'25
evening max el	5521 May 28 13:08	28° Ⅲ 07′04	19°07'15	minimum elong	5522 Apr 15 23:29	26° Ƴ 34'47	1°47'57
	5521 May 30 17:38	0ංම			5522 Apr 17 20:06	8° 0	
retrograde	5521 Jun 06 09:43	2° 5 27'16		evening rise	5522 Apr 25 13:46	14° 8 36'12	
evening set	5521 Jun 08 09:35	2° © 15'00		asc. node	5522 Apr 29 04:42	21° 8 26'27	
-	5521 Jun 13 17:45	30° ₹ Ⅱ			5522 May 03 23:59	$\Pi^{\circ}0$	
inferior conj	5521 Jun 16 17:46	28° Ⅱ 03'06	0°12'48	evening max el	5522 May 11 17:09	10° Ⅱ 31'55	18°27'59
minimum elong	5521 Jun 16 18:17	28° Ⅲ 02'12		retrograde	5522 May 19 06:37	14° Ⅱ 16'40	
transit middle	5521 Jun 16 18:17	28° Ⅲ 02'12		evening set	5522 May 21 13:09	13° Ⅱ 57′24	
transit begin	5521 Jun 16 15:56	28° Ⅱ 06'14		inferior conj	5522 May 29 01:18	9° Ⅱ 25'45	1°44'42
transit end	5521 Jun 16 20:39	27° Ⅲ 58'11		minimum elong	5522 May 29 04:30	9° Ⅱ 19'21	1°43'41
desc. node	5521 Jun 17 11:05	27° Ⅲ 33′28		min. Earth dist.	5522 Jun 01 11:12	6° Ⅱ 43'31	0.58221 AU

desc. node	5522 Jun 04 08:06	4° Ⅱ 45'12		desc. node	5523 May 22 05:07	13° 8 51'57	
morning rise	5522 Jun 05 16:40	4° Ⅱ 00'00		direct	5523 May 24 18:09	13° 8 33'21	
direct	5522 Jun 11 15:59	2° Ⅱ 27'52		morning max el	5523 Jun 08 01:42	21° 8 28'21	27°43'36
morning max el	5522 Jun 26 01:12	10° Ⅱ 09'00	26°57'16		5523 Jun 15 11:58	$\Pi^{\circ}0$	
	5522 Jul 11 07:06	0 \circ \odot			5523 Jul 04 06:59	0 \circ \odot	
morning set	5522 Jul 26 01:34	27° 5 27'08		morning set	5523 Jul 10 07:38	11° 9 57'36	
asc. node	5522 Jul 26 03:57	27° © 39'43		asc. node	5523 Jul 13 01:01	17°542'17	
	5522 Jul 27 06:23	$0^{\circ}\Omega$		max. Earth dist.	5523 Jul 16 12:13	25° © 13'59	1.31963 AU
superior conj	5522 Aug 02 01:55	12° Ω 42'44	1°06'32	superior conj	5523 Jul 17 13:13	27° © 31'28	0°45'28
minimum elong	5522 Aug 01 23:40	12° Ω 30′13	1°06'08	minimum elong	5523 Jul 17 11:22	27° 5 21'18	0°45'05
max. Earth dist.	5522 Aug 02 01:20	12° Ω 39′27	1.31927 AU		5523 Jul 18 16:09	$0^{\circ}\Omega$	
evening rise	5522 Aug 08 22:01	27° Ω 36′30		evening rise	5523 Jul 24 08:19	12° Ω 22'40	
	5522 Aug 10 01:23	0° m			5523 Aug 02 05:22	0° т р	
	5522 Aug 26 21:11	0° ⊽		desc. node	5523 Aug 18 04:23	23° m 15'30	25020121
desc. node	5522 Aug 31 07:21	6° £ 05'44	26920122	evening max el	5523 Aug 20 12:55	25° Mp 39′20 0° <u> </u>	25°28'31
evening max el	5522 Sep 07 17:59 5522 Sep 21 16:08	14° £ 27'17 21° £ 35'53	26°39'32	ratra arada	5523 Aug 26 00:16	0° ≥≥ 2° ⊆ 43'36	
retrograde evening set	5522 Sep 21 16:08 5522 Sep 28 11:33	19° £ 38'54		retrograde evening set	5523 Sep 03 11:25 5523 Sep 09 09:55	1° £ 21'47	
min. Earth dist.	5522 Oct 02 07:50		0.59960 AU	evening set	5523 Sep 12 00:21	1 ==21 47 30°RMD	
inferior conj	5522 Oct 05 13:19	17 ⊆ 03 02 14° ⊆ 28'08		min. Earth dist.	5523 Sep 12 00:21 5523 Sep 14 00:40	28° Mp 43'18	0.57917 AU
minimum elong	5522 Oct 05 19:27	14° £ 15'48	4°35'56	inferior conj	5523 Sep 17 00:10	26° m/34'33	
morning rise	5522 Oct 13 05:26	9° £ 48'03	. 55 50	minimum elong	5523 Sep 17 06:07	26° m/29'02	
direct	5522 Oct 15 13:09	9° ഫ 28'09		morning rise	5523 Sep 25 04:36	22° m 17'50	
asc. node	5522 Oct 22 03:12	12° £ 17'16		direct	5523 Sep 27 16:03	21° m 59'03	
morning max el	5522 Oct 23 02:56	13° ≏ 11'15	18°11'52	morning max el	5523 Oct 06 07:04	26° Mp 05'13	18°52'40
	5522 Nov 03 11:16	0°M		asc. node	5523 Oct 09 00:16	29° m 03'03	
morning set	5522 Nov 07 22:15	8°M18'00			5523 Oct 09 18:18	0∘ ত	
				morning set	5523 Oct 22 19:23	22° ≏ 32'01	
superior conj	5522 Nov 17 09:45	25°M56'14	1°06'51		5523 Oct 26 14:28	0°M₊	
minimum elong	5522 Nov 17 13:37	26°M13'42	1°06'23				
P. d. F.	5522 Nov 19 16:13	0° ⊀ 7	1 41071 411	superior conj	5523 Oct 31 06:36	9°M02'47	1°27'56
max. Earth dist.	5522 Nov 25 01:00	9° 🖈 18'03	1.41271 AU	minimum elong	5523 Oct 31 09:37	9°M17'06	1°27'39
desc. node evening rise	5522 Nov 27 06:35 5522 Nov 29 23:42	13° 尽 02'43 17° 尽 30'11		max. Earth dist. evening rise	5523 Nov 07 06:58 5523 Nov 11 04:26	21°M58'23 28°M45'43	1.39177 AU
evening rise	5522 Dec 07 22:07	0°る		evening rise	5523 Nov 11 04:20 5523 Nov 11 21:54	20 11C43 43 0° 🔏	
	5522 Dec 29 12:48	0° ≈		desc. node	5523 Nov 14 03:37	3° ∡ 745'11	
evening max el	5523 Jan 02 21:46	4°≈49'05	23°03'25	dese. Hode	5523 Dec 01 09:05	0°ਰ 1110	
retrograde	5523 Jan 13 03:35	10°≈53'17	23 03 23	evening max el	5523 Dec 16 11:13	18° ප 30'54	24°22'52
evening set	5523 Jan 18 00:17	8° ≈ 53'13		retrograde	5523 Dec 27 19:06	25° る 08'58	
asc. node	5523 Jan 18 02:28	8° ≈ 48'35		evening set	5524 Jan 02 04:49	22° る 53'45	
inferior conj	5523 Jan 23 09:33	2° ≈ 28'53	1°42'00	asc. node	5524 Jan 04 23:31	19° る 59'13	
minimum elong	5523 Jan 23 07:30	2° ≈ 35'57	1°41'18	min. Earth dist.	5524 Jan 06 20:51	17° る 33'19	0.67836 AU
min. Earth dist.	5523 Jan 23 00:49	2° ≈ 59'01	0.68139 AU	inferior conj	5524 Jan 07 16:38	16° る 27'02	0°54'14
	5523 Jan 25 05:41	30°₹ る		minimum elong	5524 Jan 07 15:22	16° ප 31'14	0°53'45
morning rise	5523 Jan 28 14:39	26° る 21'24		morning rise	5524 Jan 13 02:02	10° る 25'26	
direct	5523 Feb 01 23:49	24° る 35'36		direct	5524 Jan 16 21:48	9° ට 01'57	
morning max el	5523 Feb 10 16:47	29° る 38'46	21°24'54	morning max el	5524 Jan 24 14:42	13° ♂ 24'14	20°10'31
	5523 Feb 11 01:10	0°≈		1 1	5524 Feb 06 10:50	0°≈ 5°≈ •23147	
desc. node	5523 Feb 23 05:51 5523 Mar 05 05:26	15° ≈ 23'45 0°) €		desc. node morning set	5524 Feb 10 02:52 5524 Feb 21 02:45	5°≈23'47 22°≈05'18	
morning set	5523 Mar 14 04:37	13° ¥ 50′59		morning set	5524 Feb 21 02:43 5524 Feb 26 04:44	0° \	
max. Earth dist.	5523 Mar 21 01:09	24° H 54'41	1.42121 AU	max. Earth dist.	5524 Mar 02 09:50		1.43828 AU
max. Eurif dist.	5523 Mar 24 02:35	0°Υ	1.12121710	max. Dartii dist.	332111111 02 07.30	0 7(103)	1.13020710
				superior conj	5524 Mar 08 04:33	17°) 38′01	-2°08'32
superior conj	5523 Mar 28 11:52	7° Y 28'24		minimum elong	5524 Mar 08 02:37	17° ∺ 30′06	2°08'29
minimum elong	5523 Mar 28 15:07	7° Y 42'26	2°05'17		5524 Mar 15 13:59	0 ° $\mathbf{\gamma}$	
evening rise	5523 Apr 08 15:53	27° Y 22'59		evening rise	5524 Mar 21 00:34	9° Y 20'58	
	5523 Apr 10 02:26	0°8		asc. node	5524 Apr 01 22:48	29° Y 18′59	
asc. node	5523 Apr 16 01:45	10° 8 36'59	10000141		5524 Apr 02 09:48	0° 8	1000011-
evening max el	5523 Apr 25 03:10		18°08'41	evening max el	5524 Apr 07 15:53	6° 8 37'47	18°08'45
retrograde	5523 May 01 21:34	26° 8 50'57		retrograde	5524 Apr 14 02:15	10° 8 00'05	
evening set	5523 May 04 11:00	26° 8 21'54	2015110	evening set	5524 Apr 16 22:05	9° 8 19'36	2010/26
inferior conj minimum elong	5523 May 11 05:38 5523 May 11 08:48	21° 8 29'28 21° 8 22'04	2°45'48 2°45'06	inferior conj minimum elong	5524 Apr 23 03:11 5524 Apr 23 05:01	4° と 07'35 4° と 02'45	
min. Earth dist.	5523 May 14 12:44	18° 8 26'56	0.60404 AU	min. Earth dist.	5524 Apr 25 22:58	1° 8 09'02	
morning rise	5523 May 18 04:13	15° 8 38'58	0.00-10-1 AU	mm. Latui Uist.	5524 Apr 27 03:06	1 009 02 30°RΥ	0.023/1 AU
	5525 May 10 07.15	03030			552.11p1 27 05.00	20 14 1	

moming dies 5524 Ags 29 1020 28°P0225 59°P0325 140°P034 140°P03 532°AP01 140°P0142 73°P138 140°P03 140°P0142 73°P138 140°P03 140°P0		5524.4 20.10.20	200000000			5525 14 21 10 10	2200041142	
Sect mode	•				Č			
Manuming mark \$324 May 16 1005 074		•			3			
	desc. node	•			minimum elong	•		3°31'28
		5524 May 16 10:55	0°8		min. Earth dist.	5525 Apr 08 18:38	14° Y ′36'53	0.64495 AU
Second Signature Signatu	morning max el	5524 May 20 08:00	3° 8 30'45	27°51'58	morning rise	5525 Apr 12 08:58	10° Ƴ 59'28	
SSS May 19 SSS		5524 Jun 09 00:40	Π $^{\circ}0$		direct	5525 Apr 19 03:05	8° Ƴ 11'56	
Max. Fach dist S524 May 28 200 7954875 124338 MT 100 1	morning set	5524 Jun 23 07:57	26° Ⅱ 08'15		desc. node	5525 Apr 24 23:09	9° Y 55'09	
Mark		5524 Jun 25 05:14	0°ಅ		morning max el	5525 May 02 17:27	16° Y ′08'32	27°24'15
May Part May	asc node	5524 Jun 28 22:03	7°9548'56		S	•	0°₩	
				1 32438 ATT				
	max. Larm dist.	3324 Juli 20 17.03	7 3231	1.52450710	morning set			
evening rise 524 Jul 20 21:13 22*20146 0*2007 19*2014 19*20	aumorior aoni	5524 Jun 20 22:10	12060000	0920144	•			1 22272 ATT
Second Signature Signatu					max. Earth dist.	3323 Juli 11 17.37	19 1123 24	1.33372 AU
Part				0°20'30		5505 X 15 00 51	2 CO TT 20140	0007100
cerwining max 6 5524 Jul 2 6 14.11 0°m Sept May 10 4 (50) USP 2 525 May 16 15 08.13 52 (17 Kg) 60 (17 Kg) 6 (17 Kg) 7 Kg) <	evening rise							
evening max el 5524 Aug 0 1 0.144 6" β1/0"29 235-622 billind sum el 5525 Jun 1 5 18.13 26" TESOT desc. node 5524 Aug 14 19.12 13" β0/440 asc. node 5525 Jun 16 18.19 0" \$15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5								0°06'56
Second S224 Aug 04 01 25 78 1946 54 1945 1945 1946 194								
Personage	evening max el	5524 Aug 01 01:44	6° Mp 10′29	23°56'22	behind sun end	5525 Jun 15 08:13	26° Ⅱ 58'07	
Section Sec	desc. node	5524 Aug 04 01:25	8° Mp 46'54		asc. node	5525 Jun 15 19:05	27° Ⅲ 55'55	
min. Earth dist. 552 Aug 25 1207 9°m 1927 0.56161 AU cvening max el 5525 Jul 01 14-28 0.72 22°1842 22°2 (100°25 22°1842) 16°2 (100°25 22°1842) 22°2 (100°25 22°1842) <td>retrograde</td> <td>5524 Aug 14 19:12</td> <td>13° Mp 04'40</td> <td></td> <td></td> <td>5525 Jun 16 18:19</td> <td>$0$$\circ$$\odot$</td> <td></td>	retrograde	5524 Aug 14 19:12	13° Mp 04'40			5525 Jun 16 18:19	0 \circ \odot	
Inferior conj	evening set	5524 Aug 19 08:03	12° m 19'15		evening rise	5525 Jun 22 07:20	11° © 50'37	
Inferior conj	min. Earth dist.	5524 Aug 25 12:07	9° m 19'27	0.56161 AU		5525 Jul 01 14:28	$0^{\circ}\Omega$	
morning rise 5524 Aug 27 17-13 7*\(**\text{	inferior coni	5524 Aug 27 20:12	7° m 53'51	-5°15'16	evening max el	5525 Jul 13 15:39	16°Ω30'52	22°18'42
moming rise direct 5524 Sep 05 04.51 3°85648 Sep 18 00.26 3°85648 Sep 18 00.26 8°80 8°22 19°5527 min. Earth dist. 5525 Jul 29 15:36 22°0,27884 20 0.5039 AU asc. node 5524 Sep 24 21:18 16°81622 19°5527 min. Earth dist. 5525 Aug 07 20:08 18°2032 -4°2710 moming set 5524 Oct 05 23:27 7°20459 -4 moming min	3	•	7		•			
direct 5524 Sep 17 23.11 3*®3716 Sep 18 0026 sevening set 5525 Aug 0 21.02 29°,3642 Up 10 0 55039 AU asc. node 5524 Sep 18 0026 8*®18*22 19*5527 inforcoopi 5525 Aug 0 70.04 18°,3032 -42710 moming set 5524 Oct 02 1007 7*940*59 minimum elong 5525 Aug 07 11.44 18°,3032 -42710 moming set 5524 Oct 02 1027 7*940*59 moming set 5525 Aug 19 13.46 14°,41048 superior congi 5524 Oct 13 19.02 22°,45847 13933 moming max el 5525 Aug 19 13.40 14°,41048 superior congi 5524 Oct 13 19.03 0°,11 4°,10021 13993 asc. node 5525 Sep 20 15.25 0°,76 0°,76 desc. node 5524 Oct 13 10.03 0°,71 19°,100 4°,100021 sec. node 5525 Sep 20 15.03 0°,4 19°,11 4°,100 19°,100 19°,11 19°,100 19°,11 19°,11 19°,11 19°,10 19°,11 19°,11 19°,11 19°,11 19°,11 19°,11 19°,11 19°,11 19°,11 19°,11 19°,11		•	•	0 10 00				
moming max el 5224 Sep 18 18 0026 8°B 18'22 9°S5'27 min. Earth dist. 5225 Aug 06 22-04 19°Z0140 0.5939 AU asc. node 5224 Sep 24 21:18 16°B 45'9 min. min. min. min. min. min. min. min.	•		-		•			
Sezi node		•	-	10055127	•			0.55020 ATT
Maniming set \$524 Oct 07 20.07 \$724 \$729	-	•		19-55-27		-		
morning set 5524 Oct 05 23:27 7°Φ0450 morning rise 5525 Aug 16 09:40 14°A048* superior conj 5524 Oct 13 17:55 22°±5112 19°937 morning max 6 5525 Aug 16 13:40 14°A018*0 5524 Oct 13 19:26 22°±5187 19°333 asc. node 5525 Sep 08 12:52 0°№ 0°№ max. Earth dist. 5524 Oct 19 12:11 4°RL0224 13'093 AU morning set 5525 Sep 20 07:58 21°\$4933 - desc. node 5524 Oct 19 12:11 4°RL0224 13'093 AU morning set 5525 Sep 20 07:58 21°\$4933 - desc. node 5524 Oct 19 12:11 4°RL0224 13'093 AU morning set 5525 Sep 20 07:58 21°\$4931 - desc. node 5524 Oct 19 12:11 4°RL0224 13'093 AU morning max el 5525 Sep 21 16:38 7°\$40878* 14'31'14 evening max el 5524 Oct 19 12:11 4°RL0224 13'093 AU morning minimum elong 5525 Sep 21 15:28 7° 408'8* 14'31'14 evening max el 5524 Dec 10 06:09 6°E49906 15'25'15'15'15'15'15'15'15'15'15'1	asc. node				3	_		
superior conj superior conj minimum clong S524 Oct 13 19:26 S22 △S\$171 19393 minimum clong S524 Oct 17 09:18 O"M sevening rise S524 Oct 19 12:11 S24 Nov 23 10:529 S24 Nov 23 10:529 S25 Nov 2	_				•	•		4°25'18
Superior conj S524 Oct 13 17.55 22° ΔS112 1° 19937 morning max el 5525 Xeg 13 1°5.20 19° Δt449 21° 1915 minimum elong 5524 Oct 17 09:18 0° π asc. node 5525 Seg 18 18.20 0° m 570 18.20 0° m	morning set	5524 Oct 05 23:27	7° £ 04'50		•	•		
minimum elong max. Earth dist. S524 Oct 13 19:26 Max. Earth dist. S524 Oct 19 12:11 A*M. 10224 1.37093 AU morning set S525 Sep 20 17:82 S524 Sep 20 17:88 S525 Sep 20 17:82 S524 Sep 20 17:88 S525 Sep 20 17:82 S525 Sep 20 17:83 S525 Sep 20 17:83 S525 Sep 20 17:83 S525 Sep 20 17:83 S525 Sep 20 18:82 S525 Sep 20 18:8								
max. Earth dist. 5524 Oct 17 09:18 0°IL asc. node 5525 Sep 10 18:20 5°7 1954 - 1 19493 evening rise 5524 Oct 19 1:21:1 4°ILO224 1.37093 AU morning set 5525 Sep 24 05:31 0°A - 1 194093 desc. node 5524 Nov 03 13:27 0°A* superior conj 5525 Sep 27 15:28 7°A09°58 1°43'14 evening max el 5524 Nov 27 23:44 2°B1455 25°36'21 max. Earth dist. 5525 Cot 10 12:32 15°A53'51 1.32546 AU evening max el 5524 Nov 27 23:44 2°B145'5 25°36'21 max. Earth dist. 5525 Cot 10 12:33 24°A04'50 1'43'15 evening max el 5524 Dec 10 06:09 9°B171'8 evening rise 5525 Cot 10 08:12 0°IL 0°I		5524 Oct 13 17:55	22° ≏ 51'12	1°39'37	morning max el	5525 Aug 31 05:29		21°19'15
max. Earth dist. 5524 Oct 19 12:11 4°M.02'24 1.37093 AU morning set 5525 Sep 20 07:58 21°m/49'3	minimum elong	5524 Oct 13 19:26		1°39'33		5525 Sep 08 12:52	0° m ∕	
evening rise desc. node		5524 Oct 17 09:18	0°M₊		asc. node	5525 Sep 11 18:20	5° m 15'49	
S524 Nov 03 1 00:39 S524 Nov 03 1 3:27 S524	max. Earth dist.	5524 Oct 19 12:11	4° ™ 02'24	1.37093 AU	morning set	5525 Sep 20 07:58	21° m 49'33	
S524 Nov 23 18:56 O'S S524 Nov 27 23:44 2°S14'55 25°36'21 max. Earth dist. S525 Sep 27 15:30 7°£06'85 1°43'14 1°41'15' 1	evening rise	5524 Oct 23 06:56	11°M00'21			5525 Sep 24 05:31	0∘ ত	
evening max el 5524 Nov 25 18:56 0°B minimum elong 5525 Sep 27 15:30 7° Δ090 1°4315 evening max el 5524 Nov 27 23:44 2°B 455 25°3621 max. Earth dist. 5525 Oct 01 22:32 15° Δ5351 1.35246 AU evening set 5524 Dec 16 06:09 9°B 1718 evening rise 5525 Oct 10 09 08:12 2° Δ0450 1 min. Earth dist. 5524 Dec 10 13:59 2° B 3070 0.67170 AU desc. node 5525 Oct 17 21:41 14° M 3919 - inferior conj 5524 Dec 21 20:46 0° B 24'46 0°0012 evening max el 5525 Nov 10 12:35 15° № 56'46 26° 36'26 transit middle 5524 Dec 21 20:46 0° B 24'46 0°0013 evening set 5525 Nov 10 12:35 15° № 56'46 26° 36'26 transit begin 5524 Dec 21 17:58 0°B 33'45 evening set 5525 Nov 20 31:15 23° № 11'46 14° № 18'16 14° № 18'16 16° № 23'37 10° 61524 10° 01'3 revening set 5525 Nov 20 12:35 16° № 23'37 0° 61524 10° 01'3 revening set 5525 Nov 20 12:35 10° № 23'3	desc. node	5524 Oct 31 00:39	24° ™ 19'05					
cevening max el 5524 Nov 27 23:44 2°31455 25°3621 max. Earth dist. 5525 Oct 01 22:32 15° £35'51 1.35246 AU retrograde 5524 Dec 10 06:09 9°61718 evening rise 5525 Oct 06 03:33 24° £404'50 cevening set 5524 Dec 21 03:59 2°60307 0.67170 AU desc. node 5525 Oct 09 08:12 0°π 14° ₹13919 inferior conj 5524 Dec 21 20:47 0°624'44 0°00'12 5525 Oct 28 03:44 0° ₹ 16°70'10 14° ₹13919 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°36'26 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°33'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹34'45 15° ₹36'40 26°30'8 ₹36'40 26°30		5524 Nov 03 13:27	0° ∡ ¹		superior conj	5525 Sep 27 15:28	7° ♀ 08'58	1°43'14
Pevening max el 5524 Nov 27 23:44 2° 51455 25°3621 max. Earth dist. 5525 Oct 01 22:32 15° £55'5 1.35246 AU 1.0 oct operating set 5524 Dec 10 06:09 9° 51718 evening rise 5525 Oct 06 03:33 24° £404'50 24° £404'		5524 Nov 25 18:56	8°0		minimum elong	5525 Sep 27 15:30	7° ჲ 09'06	1°43'15
retrograde	evening max el	5524 Nov 27 23:44	2°る14'55	25°36'21	max. Earth dist.	-	15° ≏ 53'51	1.35246 AU
evening set	•	5524 Dec 10 06:09	9° る 17'18		evening rise	5525 Oct 06 03:33	24° £ 04'50	
min. Earth dist. 5524 Dec 20 13:59 2°B03'07 0.67170 AU desc. node 5525 Oct 17 21:41 14°IL39'19 14°IL39'1	•				C		0°M	
minimum elong 5524 Dec 21 20:47 0°€24'44 0°00'12 evening max el 5525 Oct 28 03:44 0°\$\$\bar{\text{\$\sigma}\$}\] corollar coroll	•			0.67170 ATI	desc node			
minimum elong transit middle 5524 Dec 21 20:46 0°S 24'46 0°00'13 retrograde 5525 Nov 10 12:35 15°₹56'46 26°36'26 transit middle 5524 Dec 21 20:46 0°S 24'46 0°00'13 retrograde 5525 Nov 23 11:57 23°₹11'46 transit hegin 5524 Dec 21 17:58 0°S 33'45 evening set 5525 Nov 23 11:57 23°₹11'46 transit hegin 5524 Dec 21 17:58 0°S 33'45 evening set 5525 Nov 29 23:42 20°₹34'49 transit end 5524 Dec 21 20:33 0°S 25'30 min.Earth dist. 5525 Dec 05 20:02 14°₹18'04 -0°59'06 asc. node 5524 Dec 21 20:33 0°S ₹₹ min.Earth dist. 5525 Dec 05 20:02 14°₹18'04 -0°59'06 set 5524 Dec 22 04:32 30°R ₹ minimum elong 5525 Dec 05 21:41 14°₹13'09 0°58'24 morning rise 5524 Dec 27 12:42 24°₹31'00 asc. node 5525 Dec 08 17:34 11°₹02'41 set 60'E morning max el 5525 Jan 06 20:26 27°₹20'03 19°10'24 direct 5525 Dec 11 20:27 8°₹31'45 morning max el 5525 Jan 09 06:46 0°S morning max el 5525 Jan 09 06:46 0°S morning max el 5525 Jan 10 12:43 15°S 46'48 -0.7m 5526 Jan 10 12:43 15°S 46'48 -0.7m 5526 Jan 10 12:43 15°S 46'48 -0.7m 5526 Jan 10 16:41 0°S morning set 5525 Jan 20 12:43 15°S 46'48 -0.7m 5526 Jan 10 10 10 10°S 10°S 29'22 10°S 20 10°S 21'41 10°S 29'22 10°S 20 10°S 20'S 20'S 20'S 20'S 20'S 20'S 20'S 20'					desc. node			
transit middle transit middle transit begin 5524 Dec 21 20:46 0°33'45 evening set 5525 Nov 23 11:57 23°\$11'46 transit begin 5524 Dec 21 17:58 0°33'45 evening set 5525 Nov 29 23:42 20°\$34'49 transit end 5524 Dec 21 23:35 0°515'47 min. Earth dist. 5525 Dec 04 01:50 16°\$23'57 0.66152 AU asc. node 5524 Dec 21 20:33 0°525'30 inferior conj 5525 Dec 05 20:02 14°\$18'04 -0°59'06 5524 Dec 22 04:32 30°\$\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$					evening may el			26°36'26
transit begin 5524 Dec 21 17:58 0° 33'45 evening set 5525 Nov 29 23:42 20° x³ 34'49 transit end 5524 Dec 21 23:35 0° 515'47 min. Earth dist. 5525 Dec 04 01:50 16° x² 23'57 0.66152 AU asc. node 5524 Dec 22 20:33 0° 525'30 inferior conj 5525 Dec 05 20:02 14° x³ 13'09 0°58'24 morning rise 5524 Dec 27 12:42 24° x³ 31'00 asc. node 5525 Dec 08 17:34 11° x³ 02'41 morning max el 5525 Jan 06 20:26 27° x² 20'03 19° 10'24 direct 5525 Dec 11 20:27 8° x³ 34'45 morning max el 5525 Jan 09 06:46 0° 5 morning max el 5525 Dec 14 18:31 7° x³ 47'03 morning set 5525 Jan 20 12:43 15° 546'48 -0.7m 5526 Jan 10 06:31 10° 52'9'22 morning set 5525 Jan 20 12:43 15° 546'48 -0.7m morning set 5526 Jan 10 06:31 10° 52'9'22 morning set 5525 Jan 20 18:24 0° ∞ desc. node 5526 Jan 10 06:31 10° 52'9'22 morning set 5525 Jan 30 04:22 0° ∞ 38'39 superior conj 5526 Jan 20 13:48 0° ∞ max. Earth dist. 5525 Feb 15 13:01 26° ∞ 45'52 -1° 52'47 minimum elong 5526 Jan 25 15:34 4° ∞ 49'38 1° 17'04 minimum elong 5525 Feb 15 13:01 26° ∞ 45'52 -1° 52'47 minimum elong 5526 Jan 25 15:34 4° ∞ 49'38 1° 17'04 minimum elong 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 16:23 0° ★ evening rise 5525 Mar 08 0°.47 0° \$\psi	•				-			20 30 20
transit end 5524 Dec 21 23:35 0°515'47 min. Earth dist. 5525 Dec 04 01:50 16°₹23'57 0.66152 AU asc. node 5524 Dec 21 20:33 0°525'30 min. Earth dist. 5525 Dec 05 20:02 14°₹18'04 -0°59'06 5524 Dec 22 04:32 30°₹₹ minimum elong 5525 Dec 05 21:41 14°₹13'09 0°58'24 morning rise 5524 Dec 27 12:42 24°₹31'00 asc. node 5525 Dec 08 17:34 11°₹0'2'41 direct 5524 Dec 30 20:35 23°₹27'15 morning rise 5525 Dec 14 18:31 7°₹47'03 morning max el 5525 Jan 06 20:26 27°₹20'03 19°10'24 direct 5525 Dec 14 18:31 7°₹47'03 5525 Jan 09 06:46 0°₹ morning max el 5525 Dec 21 08:30 11°₹21'25 18°26'18 greatest brilliancy 5525 Jan 20 12:43 15°₹36'48 -0.7m 5525 Jan 10 06:31 10°₹21'25 18°26'18 desc. node 5525 Jan 20 12:43 15°₹36'42'21 morning set 5526 Jan 10 06:31 10°₹29'22 desc. node 5525 Jan 20 18:24 0°≈ desc. node 5526 Jan 10 06:31 10°₹29'22 50°≈38'39 morning set 5525 Jan 20 18:24 0°≈ desc. node 5526 Jan 10 06:31 10°₹21'25 18°26'18 morning set 5525 Jan 20 18:24 0°≈ desc. node 5526 Jan 20 18:34 0°≈ 5526 Jan				0 00 13	Č			
S524 Dec 21 20:33 0°\sigma' S525 Dec 05 20:02 14°\xi 18'04 -0°59'06	_				-			0.66150 444
Minimum elong S525 Dec 05 21:41 14° X13'09 0°58'24 Morning rise S524 Dec 27 12:42 24° X31'00 asc. node S525 Dec 08 17:34 11° X02'41 Minimum elong S525 Jan 06 20:26 27° X20'03 19° 10'24 direct S525 Dec 11 20:27 8° X3'4'45 Minimum elong S525 Jan 09 06:46 0° S morning max el S525 Dec 14 18:31 7° X47'03 Minimum elong S525 Jan 20 12:43 15° S46'48 -0.7m S526 Jan 10 106:31 10° S Minimum elong S525 Jan 20 12:43 25° S42'21 morning set S526 Jan 10 106:31 10° S29'22 Minimum elong S525 Jan 30 04:22 0° ≈ 38'39 desc. node S526 Jan 12 2 13:48 0° ≈ Minimum elong S525 Feb 13 00:27 22° ≈14'58 1.44944 AU Minimum elong S525 Feb 15 13:01 26° ≈14'04 1°52'13 max. Earth dist. S526 Jan 26 10:30 S° ≈24'37 -1° 18'05 Minimum elong S525 Feb 17 21:56 0° ★ evening rise S526 Feb 10 16:23 0° ★ Minimum elong S525 Mar 02 11:37 20° ★22'27 Foreing max element S526 Mar 02 11:46 0° ♥ Minimum elong S525 Mar 19 19:49 17° № 3'23 evening max element S526 Mar 02 11:46 0° ♥ Minimum elong S525 Mar 19 19:49 17° № 3'23 evening max element S526 Mar 02 11:46 0° ♥ Minimum elong S525 Mar 22 04:20 20° № 20° 12:02 16° № 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°								
morning rise	asc. node				-			
direct 5524 Dec 30 20:35 23° ₹27'15 morning rise 5525 Dec 11 20:27 8° ₹34'45 was 34'45 morning max el 5525 Jan 06 20:26 27° ₹20'03 19° 10'24 direct 5525 Dec 14 18:31 7° ₹47'03 according to the properties 5525 Jan 20 12:43 15° ₹46'48 -0.7m 5526 Jan 03 16:41 0° ₹ 18° 26'18 according to the properties 5525 Jan 20 12:43 15° ₹46'48 -0.7m 5526 Jan 03 16:41 0° ₹ 10° ₹32'125 18° 26'18 according to the properties 5526 Jan 10 06:31 10° ₹21'25 18° 26'18 according to the properties 5525 Jan 20 12:43 15° ₹46'48 -0.7m 5526 Jan 03 16:41 0° ₹ according to the properties 5526 Jan 10 06:31 10° ₹29'22 according to the properties according to the properties 5526 Jan 10 06:31 10° ₹29'22 according to the properties 5526 Jan 10 06:31 10° ₹29'22 according to the properties 5526 Jan 20 06:31 5° ≈24'37 -1° 18'05 according to the properties 5526 Jan 20 00:30 5° ≈24'37 -1° 18'05 according to the properties 5526 Jan 20 00:30 5° ≈24'37 -1° 18'05 according to the properties according to the propertie					_			0°58'24
morning max el 5525 Jan 06 20:26 27° ₹20'03 19°10'24 direct 5525 Dec 14 18:31 7° ₹47'03 greatest brilliancy 5525 Jan 09 06:46 0° ₹3 morning max el 5525 Dec 21 08:30 11° ₹21'25 18°26'18 greatest brilliancy 5525 Jan 20 12:43 15° ₹346'48 -0.7m 5526 Jan 03 16:41 0° ₹3 desc. node 5525 Jan 26 23:53 25° ₹342'21 morning set 5526 Jan 10 06:31 10° ₹32'22 morning set 5525 Jan 29 18:24 0° ≈ desc. node 5526 Jan 13 20:54 16° ₹13'55 morning set 5525 Feb 13 00:27 22° ≈14'58 1.44944 AU superior conj 5526 Jan 26 00:30 5° ≈24'37 -1°18'05 superior conj 5525 Feb 15 21:03 26° ≈45'52 -1°52'47 minimum elong 5526 Jan 26 00:30 5° ≈24'37 -1°18'05 minimum elong 5525 Feb 15 13:01 26° ≈14'04 1°52'13 max. Earth dist. 5526 Jan 26 18:59 6° ≈37'03 1.45357 AU 6 evening rise 5525 Mar 02 11:37 20° ₹22'27 seening rise 5526 Mar 02 11:46 0° ₹ evening max el 5525 Mar 19 19:49 17° ₹23'23 evening max el 5526 Mar 05 14:06 3° ₹34'03 19°03'54	morning rise		24° ≯ 31′00			5525 Dec 08 17:34	11° ∡ *02'41	
S525 Jan 09 06:46 0°B morning max el S525 Dec 21 08:30 11° ₹21'25 18°26'18 greatest brilliancy S525 Jan 20 12:43 15°B46'48 -0.7m S526 Jan 03 16:41 0°B desc. node S525 Jan 26 23:53 25°B42'21 morning set S526 Jan 10 06:31 10°B29'22 morning set S525 Jan 29 18:24 0°∞ desc. node S526 Jan 13 20:54 16°B13'55 morning set S525 Jan 30 04:22 0°∞38'39 S526 Jan 22 13:48 0°∞ max. Earth dist. S525 Feb 13 00:27 22°∞14'58 1.44944 AU superior conj S525 Feb 15 21:03 26°∞45'52 -1°52'47 minimum elong S526 Jan 25 15:34 4°∞49'38 1°17'04 minimum elong S525 Feb 15 13:01 26°∞14'04 1°52'13 max. Earth dist. S526 Feb 10 23:18 0°★27'20 evening rise S525 Mar 02 11:37 20°¥22'27 greatest brilliancy S526 Feb 20 21:02 16°★02'52 -0.8m asc. node S525 Mar 19 19:49 17°Y23'23 evening max el S526 Mar 05 14:06 3°Y34'03 19°03'54 superior conj S525 Mar 22 04:20 20°Y02'54 18°27'29 evening max el S526 Mar 05 14:06 3°Y34'03 19°03'54 superior conj S525 Mar 19 19:49 17°Y23'23 evening max el S526 Mar 05 14:06 3°Y34'03 19°03'54 superior conj S526 Mar 05 14:06 3°°Y34'03 19°03'54 superior conj S526 Mar 05 14:06 3°°Y34'03 19°03'54 superior conj S526 Jan 10 10:03 10° Mar 10° M					morning rise		8° ∡ ³34'45	
greatest brilliancy desc. node 5525 Jan 20 12:43 15° ₹46'48 -0.7m 5526 Jan 03 16:41 0° ₹ desc. node 5525 Jan 26 23:53 25° ₹42'21 morning set 5526 Jan 10 06:31 10° ₹29'22 morning set 5525 Jan 29 18:24 0° ≈ desc. node 5526 Jan 13 20:54 16° ₹13'55 morning set 5525 Jan 30 04:22 0° ≈38'39 50:22 ₹13:48 0° ≈ max. Earth dist. 5525 Feb 13 00:27 22° ≈14'58 1.44944 AU 50 525 Feb 15 21:03 26° ≈45'52 -1° 52'47 minimum elong 5526 Jan 26 00:30 5° ≈24'37 -1° 18'05 morning minimum elong 5525 Feb 15 13:01 26° ≈14'04 1° 52'13 max. Earth dist. 5526 Jan 26 18:59 6° ≈37'03 1.45357 AU 6° ≈ 11'37 21:56 0° ★ evening rise 5525 Mar 02 11:37 20° ★22'27 5526 Feb 10 16:23 0° ★27'20 sevening rise 5525 Mar 02 11:37 20° ★22'27 5526 Feb 10 16:23 0° ★ evening max el 5525 Mar 19 19:49 17° ♀23'23 evening max el 5526 Mar 02 11:46 0° ♀ evening max el 5525 Mar 22 04:20 20° ♀02'54 18° 27'29 evening max el 5526 Mar 05 14:06 3° ♀34'03 19° 03'54	morning max el	5525 Jan 06 20:26	27° ∡ ¹20'03	19°10'24	direct	5525 Dec 14 18:31	7° ∡ ¹47'03	
desc. node 5525 Jan 26 23:53 25°₹42'21 morning set 5526 Jan 10 06:31 10°₹29'22		5525 Jan 09 06:46	0° ප		morning max el	5525 Dec 21 08:30	11° ∡ ′21′25	18°26'18
morning set 5525 Jan 29 18:24 0°≈ desc. node 5526 Jan 13 20:54 16°₹13'55 max. Earth dist. 5525 Feb 13 00:27 22°≈14'58 1.44944 AU superior conj 5526 Jan 22 13:48 0°≈ superior conj 5526 Jan 26 00:30 5°≈24'37 -1°18'05 superior conj 5525 Feb 15 21:03 26°≈45'52 -1°52'47 minimum elong 5526 Jan 26 00:30 5°≈24'37 -1°18'05 minimum elong 5525 Feb 15 13:01 26°≈14'04 1°52'13 max. Earth dist. 5526 Jan 26 18:59 6°≈37'03 1.45357 AU 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27'20 evening rise 5525 Mar 02 11:37 20° ★22'27 5526 Feb 10 16:23 0° ★ greatest brilliancy 5526 Feb 10 16:23 0° ★ evening max el 5525 Mar 22 04:20 20° ♀02'54 18°27'29 evening max el 5526 Mar 05 14:06 3° ♀34'03 19°03'54	greatest brilliancy	5525 Jan 20 12:43	15° る 46'48	-0.7m		5526 Jan 03 16:41	8°0	
morning set 5525 Jan 30 04:22 0°≈38'39 5525 Feb 13 00:27 22°≈14'58 1.44944 AU 5uperior conj 5526 Jan 26 00:30 5°≈24'37 -1°18'05 5uperior conj 5525 Feb 15 21:03 26°≈45'52 -1°52'47 minimum elong 5526 Jan 26 00:30 5°≈24'37 -1°18'05 minimum elong 5525 Feb 15 13:01 26°≈14'04 1°52'13 max. Earth dist. 5526 Jan 26 18:59 6°≈37'03 1.45357 AU 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27'20 evening rise 5525 Mar 02 11:37 20° ★22'27 5526 Feb 10 16:23 0° ★ asc. node 5525 Mar 19 19:49 17° ↑23'23 evening max el 5526 Mar 02 11:46 0° ↑ synthetic flames and superior conj 5526 Mar 02 11:46 0° ↑ synthetic flames and superior conj 5526 Jan 26 00:30 5°≈24'37 -1°18'05 minimum elong 5526 Jan 26 18:59 6°≈37'03 1.45357 AU 6° ★27'20 evening rise 5526 Feb 10 23:18 0° ★27'20 evening rise 5526 Feb 10 16:23 0° ★ synthetic flames f	desc. node	5525 Jan 26 23:53	25° る 42'21		morning set	5526 Jan 10 06:31	10° る 29'22	
max. Earth dist. 5525 Feb 13 00:27 22°≈14'58 1.44944 AU superior conj 5526 Jan 26 00:30 5°≈24'37 -1°18'05 superior conj 5525 Feb 15 21:03 26°≈45'52 -1°52'47 minimum elong 5526 Jan 25 15:34 4°≈49'38 1°17'04 minimum elong 5525 Feb 15 13:01 26°≈14'04 1°52'13 max. Earth dist. 5526 Jan 26 18:59 6°≈37'03 1.45357 AU 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27'20 evening rise 5525 Mar 02 11:37 20° ★22'27 5526 Feb 10 16:23 0° ★ sac. node 5525 Mar 19 19:49 17° ↑23'23 evening max el 5526 Mar 02 11:46 0° ↑ sac. node 5525 Mar 22 04:20 20° ↑02'54 18°27'29 evening max el 5526 Mar 05 14:06 3° ↑34'03 19°03'54		5525 Jan 29 18:24	0° ≈		desc. node	5526 Jan 13 20:54	16° る 13'55	
superior conj 5525 Feb 15 21:03 26°≈45'52 -1°52'47 superior conj 5526 Jan 26 00:30 5°≈24'37 -1°18'05 minimum elong 5525 Feb 15 21:03 26°≈45'52 -1°52'47 minimum elong 5526 Jan 25 15:34 4°≈49'38 1°17'04 minimum elong 5525 Feb 15 13:01 26°≈14'04 1°52'13 max. Earth dist. 5526 Jan 26 18:59 6°≈37'03 1.45357 AU evening rise 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27'20 0° ★27'20 evening rise 5525 Mar 02 11:37 0° ♥ greatest brilliancy 5526 Feb 10 16:23 0° ★ 0° ★ asc. node 5525 Mar 19 19:49 17° ♥23'23 17° ♥23'23 Fevening max el 5526 Mar 02 11:46 0° ♥ 0° ♥ evening max el 5525 Mar 22 04:20 20*20 42:02 00*02*54 18°27'29 evening max el 5526 Mar 05 14:06 3° ♥34'03 19°03'54	morning set	5525 Jan 30 04:22	0° ≈ 38'39			5526 Jan 22 13:48	0° ≈	
superior conj 5525 Feb 15 21:03 26°≈45'52 -1°52'47 superior conj 5526 Jan 26 00:30 5°≈24'37 -1°18'05 minimum elong 5525 Feb 15 21:03 26°≈45'52 -1°52'47 minimum elong 5526 Jan 25 15:34 4°≈49'38 1°17'04 minimum elong 5525 Feb 15 13:01 26°≈14'04 1°52'13 max. Earth dist. 5526 Jan 26 18:59 6°≈37'03 1.45357 AU evening rise 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27'20 0° ★27'20 evening rise 5525 Mar 02 11:37 0° ♥ greatest brilliancy 5526 Feb 10 16:23 0° ★ 0° ★ asc. node 5525 Mar 19 19:49 17° ♥23'23 17° ♥23'23 Fevening max el 5526 Mar 02 11:46 0° ♥ 0° ♥ evening max el 5525 Mar 22 04:20 20*20 42:02 00*02*54 18°27'29 evening max el 5526 Mar 05 14:06 3° ♥34'03 19°03'54	•		22° ≈ 14'58	1.44944 AU				
superior conj 5525 Feb 15 21:03 26°≈45′52 -1°52′47 minimum elong 5526 Jan 25 15:34 4°≈49′38 1°17′04 minimum elong 5525 Feb 15 13:01 26°≈14′04 1°52′13 max. Earth dist. 5526 Jan 26 18:59 6°≈37′03 1.45357 AU evening rise 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27′20 evening rise 5525 Mar 02 11:37 20° ★22′27 5526 Feb 10 16:23 0° ★ asc. node 5525 Mar 19 19:49 17° ♀23′23 greatest brilliancy 5526 Mar 02 11:46 0° ♀ evening max el 5525 Mar 22 04:20 20° ♀02′54 18°27′29 evening max el 5526 Mar 05 14:06 3° ♀34′03 19°03′54			- •	-	superior coni	5526 Jan 26 00:30	5° ≈ 24'37	-1°18'05
minimum elong 5525 Feb 15 13:01 $26^{\circ} \approx 14'04$ 1°52'13 max. Earth dist. 5526 Jan 26 18:59 $6^{\circ} \approx 37'03$ 1.45357 AU evening rise 5525 Feb 17 21:56 0°H evening rise 5526 Feb 10 23:18 0°H 27'20 evening rise 5525 Mar 02 11:37 20°H 22'27 5526 Feb 10 16:23 0°H 27'20 greatest brilliancy 5526 Feb 20 21:02 16°H 02'52 -0.8m asc. node 5525 Mar 19 19:49 17°Y 23'23 evening max el 5526 Mar 02 11:46 0°Y 0° evening max el 5526 Mar 05 14:06 3°Y 3'03 19°03'54	superior coni	5525 Feb 15 21:03	26° ≈ 45'52	-1°52'47	1 3			
evening rise 5525 Feb 17 21:56 0° ★ evening rise 5526 Feb 10 23:18 0° ★27'20 evening rise 5525 Mar 02 11:37 20° ★22'27 5526 Feb 10 16:23 0° ★ 5525 Mar 08 07:47 0° ❤ greatest brilliancy 5526 Feb 20 21:02 16° ★02'52 -0.8m asc. node 5525 Mar 19 19:49 17° ❤23'23 5526 Mar 02 11:46 0° ❤ evening max el 5525 Mar 22 04:20 20° ❤02'54 18° 27'29 evening max el 5526 Mar 05 14:06 3° ❤34'03 19° 03'54					Č			
evening rise 5525 Mar 02 11:37 20° \(\) \(22'27 \) 5525 Mar 08 07:47 0° \(\) asc. node 6 5525 Mar 19 19:49 17° \(\) \(23'23 \) evening max el 5525 Mar 22 04:20 20° \(\) \(ciong			1 0=10				1
asc. node $5525 \text{ Mar } 08 07:47$ 0°Y greatest brilliancy $5526 \text{ Feb } 20 21:02$ $16^{\circ}\text{$\mathcal{Y}}02'52$ -0.8m asc. node $5525 \text{ Mar } 19 19:49$ $17^{\circ}\text{$\mathcal{Y}}23'23}$ $5526 \text{ Mar } 02 11:46$ $0^{\circ}\text{$\mathcal{Y}}$ evening max el $5525 \text{ Mar } 22 04:20$ $20^{\circ}\text{$\mathcal{Y}}02'54}$ $18^{\circ}27'29$ evening max el $5526 \text{ Mar } 05 14:06$ $3^{\circ}\text{$\mathcal{Y}}34'03$ $19^{\circ}03'54$	evening rice				evening Hee			
asc. node 5525 Mar 19 19:49 17° Y 23'23 5526 Mar 02 11:46 0° Y evening max el 5525 Mar 22 04:20 20° Y 02'54 18° 27'29 evening max el 5526 Mar 05 14:06 3° Y 34'03 19° 03'54	evening 1150				greatest brillianar			-0.8m
evening max el 5525 Mar 22 04:20 20° Y 02'54 18° 27'29 evening max el 5526 Mar 05 14:06 3° Y 34'03 19° 03'54	asa nada				greatest oriniancy			-U.01II
				1002720	ovonina ma1			10002154
150 remogration 2010 10:00 20	•			10 4/49	•			17 03 34
	renograde	3323 IVIAT 28 10:US	25 1 544/		asc. node	3320 Mar no 10:31	4 1 38 16	

retrograde	5526 Mar 12 11:21	7° Ƴ 27'01			5527 Feb 03 21:59	0°) {	
evening set	5526 Mar 15 20:34	6° Υ 20'31		greatest brilliancy	5527 Feb 04 22:02	1° ∺ 28'58	-0.6m
•		0° Υ 34'02	2027/06	-		17°\ 08'06	19°56'16
inferior conj	5526 Mar 21 09:43			evening max el	5527 Feb 16 19:23		19-30 10
minimum elong	5526 Mar 21 08:38	0° Υ 37'30	3°27'00	asc. node	5527 Feb 21 13:52	20°) € 50′27	
	5526 Mar 21 20:24	30° ₹ ₩	0.66040.477	retrograde	5527 Feb 24 09:12	21°) 32'02	
min. Earth dist.	5526 Mar 22 23:01	28°) ₹35'37	0.66043 AU	evening set	5527 Feb 28 02:30	20°) 11'14	2000155
morning rise	5526 Mar 26 20:19	24°) 19'17		inferior conj	5527 Mar 05 12:00	14°) 10′17	3°09'57
direct	5526 Apr 02 06:24	21°) ₹30′31		minimum elong	5527 Mar 05 10:02	14° ∺ 16'51	3°09'37
desc. node	5526 Apr 11 20:09	26°) €04'33		min. Earth dist.	5527 Mar 06 10:45	12°) 54′04	0.67166 AU
morning max el	5526 Apr 15 03:23	29° ∺ 09'10	26°27'01	morning rise	5527 Mar 10 17:23	7° ¥ 55′28	
	5526 Apr 15 23:07	0 ° $\mathbf{\gamma}$		direct	5527 Mar 16 15:21	5°) 16′53	
	5526 May 07 23:47	$_{0\circ}$ 8		morning max el	5527 Mar 28 12:28	12°) €22'56	25°09'19
morning set	5526 May 21 04:11	22° 8 56'37		desc. node	5527 Mar 29 17:11	13°) 37′29	
	5526 May 24 20:22	Π $^{\circ}0$			5527 Apr 11 16:32	0° Y	
max. Earth dist.	5526 May 25 05:59	0° Ⅱ 47'16	1.34778 AU		5527 Apr 30 17:34	$_{0\circ}$ 8	
				morning set	5527 May 03 16:00	5° 8 10'56	
superior conj	5526 May 30 01:02	10° Ⅲ 26'42	-0°36'37	max. Earth dist.	5527 May 07 07:32	11° 8 50'51	1.36618 AU
minimum elong	5526 May 30 03:03	10° Ⅲ 37′02	0°36'13				
asc. node	5526 Jun 02 16:06	17° Ⅱ 58'47		superior conj	5527 May 13 13:44	23° 8 51'52	-1°06'37
evening rise	5526 Jun 06 16:13	26° Ⅱ 20'19		minimum elong	5527 May 13 17:29	24° 8 10'20	1°05'59
•	5526 Jun 08 10:59	0ංම			5527 May 16 15:33	$\Pi^{\circ}0$	
evening max el	5526 Jun 25 14:34	27° © 13'20	20°50'05	asc. node	5527 May 20 13:08	7° Ⅱ 53'29	
	5526 Jun 28 21:35	0°Ω		evening rise	5527 May 21 20:29	10° Ⅲ 31'52	
retrograde	5526 Jul 07 02:51	2° Ω 52'48		evening rise	5527 Jun 01 09:21	0°95	
desc. node	5526 Jul 08 19:25	2°Ω45'56		evening max el	5527 Jun 08 01:59	8° © 35'50	19°38'54
evening set	5526 Jul 09 05:44	2°Ω42'04		retrograde	5527 Jun 17 20:47	13° © 23'09	17 30 34
evening set	5526 Jul 16 07:18	2 8€ 72 07		evening set	5527 Jun 19 18:42	13° © 12'58	
inforior coni	5526 Jul 18 13:03	30 k≅ 28°€45'04	2050120	desc. node	5527 Jun 25 16:27	13 3 12 38	
inferior conj	5526 Jul 18 05:23	28°955'57			5527 Jun 28 13:39	9° 5 09'21	0051152
minimum elong				inferior conj			
min. Earth dist.	5526 Jul 19 08:44	28°917'07	0.54809 AU	minimum elong	5527 Jun 28 11:17	9°513'03	0°51'01
morning rise	5526 Jul 27 04:52	24°543'57		min. Earth dist.	5527 Jun 30 21:31	7°541'58	0.55538 AU
direct	5526 Jul 30 22:52	24°©13'45		morning rise	5527 Jul 07 01:34	4°938'36	
	5526 Aug 12 11:18	0° Ω		direct	5527 Jul 11 14:44	3°952'36	
morning max el	5526 Aug 12 23:59	0° Ω 29'04	22°58'52	morning max el	5527 Jul 25 13:36	10° © 50'27	24°42'53
asc. node	5526 Aug 29 15:21	24° Ω 18'51			5527 Aug 09 01:02	$0^{\circ}\Omega$	
	5526 Sep 01 13:16	O° m y		asc. node	5527 Aug 16 12:24	13° Ω 46′58	
morning set	5526 Sep 04 18:58	6° Mp 40′53		morning set	5527 Aug 20 06:42	21° Ω 33'14	
					5527 Aug 24 04:36	0° m	
superior conj	5526 Sep 11 20:01	21°Mp46'38	1°40'02				
minimum elong	5526 Sep 11 18:51	21°Mp40'21	1°39'59	superior conj	5527 Aug 27 04:59	6° № 35'49	1°30'59
max. Earth dist.	5526 Sep 14 17:39	27° m 55'17	1.33769 AU	minimum elong	5527 Aug 27 03:01	6° № 25'06	1°30'46
	5526 Sep 15 17:37	0∘ ত		max. Earth dist.	5527 Aug 28 21:02	10° m 13'41	1.32715 AU
evening rise	5526 Sep 19 14:06	7° ≙ 48'17		evening rise	5527 Sep 03 10:49	21° m 59'48	
	5526 Oct 01 20:52	0° M ₊			5527 Sep 07 11:33	0∘ ত	
desc. node	5526 Oct 04 18:42	4°M39'36		desc. node	5527 Sep 21 15:44	24° ≙ 10'52	
evening max el	5526 Oct 24 01:18	29°M27'12	27°15'39		5527 Sep 25 17:49	0° M ₊	
	5526 Oct 24 15:16	0° ∡ ¹		evening max el	5527 Oct 06 11:58	12°M32'13	27°27'16
retrograde	5526 Nov 06 11:41	6° ∡ ¹45'14		retrograde	5527 Oct 20 04:55	19°M48'05	
evening set	5526 Nov 13 09:53	4° ≯ 06'00		evening set	5527 Oct 27 08:47	17° M 15'43	
min. Earth dist.	5526 Nov 17 06:06	0° ₹ 29'54	0.64788 AU	min. Earth dist.	5527 Oct 31 00:39	14° M .11'01	0.63099 AU
	5526 Nov 17 17:14	30°RM₊		inferior conj	5527 Nov 02 18:23	11°M29'58	
inferior conj	5526 Nov 19 12:10	28°ML02'21	-2°02'09	minimum elong	5527 Nov 02 23:48	11°M16'40	
minimum elong	5526 Nov 19 15:44	27°M52'35		morning rise	5527 Nov 09 16:27	6°M17'12	3 0.20
morning rise	5526 Nov 25 22:47	22°M32'32	2 00 12	direct	5527 Nov 12 01:52	5°M50'18	
asc. node	5526 Nov 25 14:35	22°M42'18		asc. node	5527 Nov 12 01:32 5527 Nov 12 11:38	5°M51'05	
direct	5526 Nov 28 13:16	21°M57'03		morning max el	5527 Nov 12 11:38 5527 Nov 18 17:20		17°49'20
			17°59'05	morning max er		9 IIC13 32 0° 🔏	17 49 20
morning max el	5526 Dec 05 00:28 5526 Dec 08 21:35	25°M22'38 0°⊀	11 37 03	morning set	5527 Dec 02 11:41 5527 Dec 04 22:52	0° x ¹ 4° x ¹19'10	
marning sat				morning set	3327 Dec 04 22:32	4 X 19 10	
morning set	5526 Dec 22 14:21	21° ₹ 48'54		avmani· '	5527 D 16 10 55	240.74200	0012141
J 1	5526 Dec 27 12:37	0°る		superior conj	5527 Dec 16 19:55	24° 🗷 42'00	0°12'41
desc. node	5526 Dec 31 17:56	6° ප 54'38		minimum elong	5527 Dec 16 21:12	24° 🖈 47'21	0°12'31
	5505 I 05 10 T	1.40-70	0022121	behind sun begin	5527 Dec 16 15:17	24° 🖈 22'44	
superior conj	5527 Jan 05 10:57	14° ♂ 29'42		behind sun end	5527 Dec 17 03:07	25° √ 11'55	
minimum elong	5527 Jan 05 07:01	14° ठ 13'59		desc. node	5527 Dec 18 14:58	27° ∡ ′40′05	
max. Earth dist.	5527 Jan 09 14:42	21° る 05'30	1.45026 AU		5527 Dec 20 01:05	0° る	
	5527 Jan 15 07:13	0° ≈		max. Earth dist.	5527 Dec 23 08:13	5° る 20'14	1.43988 AU
evening rise	5527 Jan 21 16:16	9° ≈ 52'11		evening rise	5528 Jan 01 02:34	19° る 07'15	

	5528 Jan 08 06:03	0° ≈		evening rise	5528 Dec 10 21:57	28° ∡ 750'56	
	5528 Jan 30 02:42	0°) €			5528 Dec 11 15:25	7°0	
evening max el	5528 Jan 30 19:09	0°) 42′54	21°02'08		5528 Dec 31 22:00	0° ≈	
retrograde	5528 Feb 08 07:26	5°) 44′57		evening max el	5529 Jan 12 13:38	14° ≈ 19′00	22°17'41
asc. node	5528 Feb 08 10:54	5°) 44′50		retrograde	5529 Jan 22 04:10	20°≈01'44	
evening set	5528 Feb 12 10:08	4°) €09'14		asc. node	5529 Jan 25 07:57	19° ≈ 09'24	
	5528 Feb 16 05:49	30°R≈	20 4212 1	evening set	5529 Jan 26 17:47	18°≈10'38	2006122
inferior conj	5528 Feb 17 18:11	27°≈56'22 28°≈04'32	2°42'31 2°41'56	inferior conj	5529 Feb 01 02:10	11°≈49'15 11°≈57'14	2°06'23 2°05'39
minimum elong min. Earth dist.	5528 Feb 17 15:49 5528 Feb 18 03:48	28 ≈04 32 27°≈23'10	0.67855 AU	minimum elong min. Earth dist.	5529 Jan 31 23:52 5529 Jan 31 23:54	11 ≈37 14 11°≈57'08	0.68139 AU
morning rise	5528 Feb 22 21:20	21°≈43'07	0.07833 AU	morning rise	5529 Feb 06 05:48	5°≈39'01	0.08139 AU
direct	5528 Feb 28 05:10	19°≈22'25		direct	5529 Feb 10 23:04	3°≈40'07	
morning max el	5528 Mar 09 21:22	25°≈43'58	23°41'21	morning max el	5529 Feb 20 08:43	9° ≈ 11'42	22°12'48
	5528 Mar 13 18:51	0° ∀		desc. node	5529 Mar 02 11:15	21° ≈ 25'30	
desc. node	5528 Mar 15 14:13	2°) 10′08			5529 Mar 08 14:16	0°) €	
	5528 Apr 04 05:26	$0^{\circ}\mathbf{\Upsilon}$		morning set	5529 Mar 25 15:59	26° ¥ 09'01	
morning set	5528 Apr 14 05:46	16° Ƴ 19'39			5529 Mar 28 00:34	0 ° Υ	
max. Earth dist.	5528 Apr 18 03:25	23° Y 05'17	1.38749 AU	max. Earth dist.	5529 Mar 31 00:32	4° Y 59'30	1.40940 AU
	5528 Apr 21 23:52	9° 8					
				superior conj	5529 Apr 07 19:16	18° Y 28'08	-1°56'57
superior conj	5528 Apr 25 13:21	6° 8 36'10		minimum elong	5529 Apr 07 23:57	18° Ƴ 49'00	1°56'37
minimum elong	5528 Apr 25 18:20	6° 8 59'37	1°33'58		5529 Apr 14 03:15	0°8	
evening rise	5528 May 04 17:26	24° 8 17'58		evening rise	5529 Apr 18 03:36	7° 8 29'06	
asc. node	5528 May 06 10:11	27° 8 35'41		asc. node	5529 Apr 23 07:14	16° 8 59'34	
	5528 May 07 16:15	0° I I	10045150		5529 May 01 10:30	0°II	1001501
evening max el	5528 May 21 00:50	20° Ⅱ 40'14	18°47'59	evening max el	5529 May 04 07:52	3° Ⅱ 18'29	18°17'21
retrograde	5528 May 29 06:59	24° Ⅱ 43'52 24° Ⅱ 29'08		retrograde	5529 May 11 11:57	6°П53'23 6°П30'22	
evening set inferior conj	5528 May 31 09:19 5528 Jun 08 08:52	24° II 29'08 20° II 08'57	0°55'27	evening set inferior conj	5529 May 13 21:20 5529 May 21 01:37	1° Д 50'08	2014/17
minimum elong	5528 Jun 08 10:56	20° I I08'37' 20° I I05'12	0°54'43	minimum elong	5529 May 21 05:04	1° П 30'08	
min. Earth dist.	5528 Jun 11 14:02	20 H 03 12 17° H 49'04	0.57075 AU	minimum clong	5529 May 23 04:58	30°R 8	2 13 19
desc. node	5528 Jun 11 13:28	17° I I50'03	0.57075710	min. Earth dist.	5529 May 24 11:52	28° 8 55'53	0.59130 AU
morning rise	5528 Jun 16 09:10	15° I 01'30		morning rise	5529 May 28 09:49	26° 8 12'13	0.03150110
direct	5528 Jun 21 20:28	13° Ⅱ 48'40		desc. node	5529 May 29 10:30	25° 8 40'17	
morning max el	5528 Jul 06 04:54	21° Ⅱ 18′04	26°15'22	direct	5529 Jun 03 16:19	24° 8 25'19	
-	5528 Jul 13 18:48	0ಂತಾ			5529 Jun 15 15:19	Π $^{\circ}0$	
	5528 Jul 31 15:51	$0^{\circ}\Omega$		morning max el	5529 Jun 18 01:37	2° Ⅱ 14'20	27°21'22
asc. node	5528 Aug 02 09:27	3° Ω 33'12			5529 Jul 08 03:33	0 \circ \odot	
morning set	5528 Aug 03 17:37	6° Ω 21'53		morning set	5529 Jul 19 01:56	21° © 00'20	
				asc. node	5529 Jul 20 06:30	23° © 30'58	
superior conj	5528 Aug 10 16:19	21° Ω 30′09	1°16'48		5529 Jul 23 06:37	0 \circ Ω	
minimum elong	5528 Aug 10 14:02	21°Ω17'31	1°16'27	max. Earth dist.	5529 Jul 25 17:11	5° Ω 22'00	1.31888 AU
max. Earth dist.	5528 Aug 11 06:06	22° Ω 46′08	1.32090 AU		5520 1 1 26 04 07	(0 O 22120	0050105
	5528 Aug 14 13:22	0°M)		superior conj	5529 Jul 26 04:07	6° Ω 22'29 6° Ω 10'38	0°58'05
evening rise	5528 Aug 17 14:45 5528 Aug 30 00:20	6°₱31'03 0°₽		minimum elong evening rise	5529 Jul 26 01:59 5529 Aug 01 23:19	21°Ω13'25	0°57'41
desc. node	5528 Sep 07 12:46	0 == 13° ⊆ 01'21		evening rise	5529 Aug 06 05:32	0°m)	
evening max el	5528 Sep 17 18:06		27°06'33		5529 Aug 24 16:11	0° ت مار	
evening max er	5528 Sep 24 07:01	0°M	27 00 33	desc. node	5529 Aug 25 09:47	ი∘ ჲ 53'56	
retrograde	5528 Oct 01 14:58	2°M11'18		evening max el	5529 Aug 30 17:22	6° ₽ 38'57	26°12'41
evening set	5528 Oct 08 16:36	29° £ 57'35		retrograde	5529 Sep 13 16:28	13° ≏ 46'37	
Č	5528 Oct 08 15:01	30° ₹ Ω		evening set	5529 Sep 20 04:27	12° ≏ 03'48	
min. Earth dist.	5528 Oct 12 08:33	27° ≏ 15′24	0.61148 AU	min. Earth dist.	5529 Sep 24 06:30	9° ≏ 28'56	0.59071 AU
inferior conj	5528 Oct 15 11:32	24° ≏ 33'16	-4°06'59	inferior conj	5529 Sep 27 12:05	7° ≙ 02'45	-4°55'49
minimum elong	5528 Oct 15 17:58	24° ₽ 19′20	4°05'14	minimum elong	5529 Sep 27 17:24	6° ჲ 52'42	4°54'59
morning rise	5528 Oct 22 21:21	19° ≙ 40'47		morning rise	5529 Oct 05 08:34	2° ≏ 32'45	
direct	5528 Oct 25 04:36	19° £ 19'15		direct	5529 Oct 07 17:14	2° ≏ 13'44	
asc. node	5528 Oct 29 08:41	20° £ 33'03		morning max el	5529 Oct 15 16:54	6° Ω 05'41	18°26'36
morning max el	5528 Nov 01 07:58	22° £ 53′22	17°58'01	asc. node	5529 Oct 16 05:44	6° ≏ 37'31	
	5528 Nov 06 21:54	0°M			5529 Oct 30 20:36	0°M	
morning set	5528 Nov 17 01:35	17°M40'48		morning set	5529 Oct 31 17:11	1°M38'41	
	5528 Nov 23 19:38	0° ≯ 7		gunorier eseri	5520 Nov. 00, 17-20	100 m 45107	1017101
superior con-	5528 Nov. 27, 07-14	6° ₹ 10'46	0°50'01	superior conj	5529 Nov 09 17:20	18°M45'26 19°M02'15	1°17'01 1°16'37
superior conj minimum elong	5528 Nov 27 07:14 5528 Nov 27 10:55	6° × ′10′46 6° × ′26′51	0°50'01 0°49'31	minimum elong	5529 Nov 09 20:59 5529 Nov 15 23:22	19°11L02'15 0° x 7	1 103/
desc. node	5528 Dec 04 12:00	18° × 20'31	U 7/J1	max. Earth dist.	5529 Nov 17 04:20	0 x · 2° x 705'46	1.40389 AU
max. Earth dist.	5528 Dec 04 12:00 5528 Dec 04 20:52		1.42376 AU	desc. node	5529 Nov 17 04.20 5529 Nov 21 09:02	9° x 12'06	1.10507 AU
Larur dist.	3020 500 07 20.02	., , 05 72	23,0110	nese. Hour	3027 1101 21 07.02	, , 1200	

avanina riaa	5529 Nov 21 13:27	9° ∡ 30'23			5530 Nov 08 08:11	0° ∡ ¹	
evening rise	5529 Nov 21 13:27 5529 Dec 04 15:17	9° X '3023			5530 Nov 08 08:11 5530 Nov 28 15:17	0° ⊼ .	
evening max el	5529 Dec 26 04:25	0 3 27° る 58'44	22027127	evening max el	5530 Nov 28 13.17 5530 Dec 08 17:26	11° る 42'05	24055120
evening max er	5529 Dec 28 07:58	27 O 3844 0° ≈	23 3/3/	retrograde	5530 Dec 08 17.26 5530 Dec 20 11:27	11 3 4203	24 33 28
rotro aro do	5530 Jan 05 21:54	0 ∞ 4°≈18'46		-	5530 Dec 26 02:49	16°る10'27	
retrograde	5530 Jan 10 23:53	4 ≈1846 2°≈12'21		evening set asc. node	5530 Dec 30 02:01	10 31027 11° 3 49'02	
evening set	5530 Jan 10 25:53 5530 Jan 12 04:59	2 ≈1221 1°≈03'50				11 84902 11° る 04'31	0.67593 AU
asc. node	5530 Jan 12 04:39 5530 Jan 13 04:09	1 ≈03 30 30°Ŗる		min. Earth dist.	5530 Dec 30 15:44 5530 Dec 31 16:05	9° る 44'21	0.07393 AU 0°32'03
::			1922127	inferior conj		9° 3 46'55	
inferior conj	5530 Jan 16 10:04	25°₹46'24	1°22'37	minimum elong	5530 Dec 31 15:19		0°31'45
minimum elong	5530 Jan 16 08:18	25° る 52'27	1°21'58	morning rise	5531 Jan 06 03:59	3°る45'42	
min. Earth dist.	5530 Jan 15 20:41	26°る32'09	0.68045 AU	direct	5531 Jan 09 18:35	2°る30'47	10042105
morning rise	5530 Jan 21 16:41	19° る 40'55		morning max el	5531 Jan 17 03:09	6° る 38'52	
direct	5530 Jan 25 19:59	18° る 04'41		greatest brilliancy	5531 Jan 30 03:23	23°₹43'52	-0.7m
morning max el	5530 Feb 03 02:00	22° る 49'36	20°51'41		5531 Feb 03 08:03	0° ≈	
	5530 Feb 09 05:35	0° ≈		desc. node	5531 Feb 04 05:16	1° ≈ 20′13	
desc. node	5530 Feb 17 08:17	11°≈11'53		morning set	5531 Feb 11 19:39	12° ≈ 57'31	
	5530 Mar 01 21:49	0° ∀			5531 Feb 22 17:38	0° ∀	
morning set	5530 Mar 04 23:25	4°) 45′20		max. Earth dist.	5531 Feb 23 16:06	1° ∺ 29'05	1.44387 AU
max. Earth dist.	5530 Mar 13 04:24	17°) 49'15	1.42904 AU				
				superior conj	5531 Feb 28 08:24	8° ¥ 58'30	
superior conj	5530 Mar 20 02:38	29° 升 17'32	-2°08'47	minimum elong	5531 Feb 28 03:39	8°) 39′21	2°04'08
minimum elong	5530 Mar 20 04:05	29° ∺ 23'39	2°08'45		5531 Mar 13 01:25	0° Y	
	5530 Mar 20 12:40	0 ° Υ		evening rise	5531 Mar 13 22:42	1° Ƴ 30′02	
evening rise	5530 Mar 31 22:53	19° Ƴ 56'15		asc. node	5531 Mar 28 01:17	24° Y 26′01	
	5530 Apr 06 15:18	8°		evening max el	5531 Apr 01 08:28	29° Ƴ 40'22	18°14'30
asc. node	5530 Apr 10 04:16	5° 8 59'08			5531 Apr 01 16:30	0°B	
evening max el	5530 Apr 17 19:31	16° 8 21'38	18°06'24	retrograde	5531 Apr 07 18:10	3° 8 04'53	
retrograde	5530 Apr 24 09:08	19° 8 43'57		evening set	5531 Apr 10 16:49	2° 8 18'59	
evening set	5530 Apr 27 01:23	19° 8 10'10		Č	5531 Apr 13 19:58	30° ₹ Υ	
inferior conj	5530 May 03 13:48	14° 8 09'30	3°03'02	inferior conj	5531 Apr 16 17:21	26° Y 59'01	3°26'49
minimum elong	5530 May 03 16:29	14° 8 02'52	3°02'32	minimum elong	5531 Apr 16 18:30	26° Y 55'51	3°26'43
min. Earth dist.	5530 May 06 16:57	11° 8 05'44	0.61351 AU	min. Earth dist.	5531 Apr 19 06:57	24°Υ08'51	0.63434 AU
morning rise	5530 May 10 05:36	8° 8 11'51	0.01301110	morning rise	5531 Apr 22 19:07	20°Υ50'23	0.03 13 1110
desc. node	5530 May 16 07:32	5° 8 54'28		direct	5531 Apr 29 15:17	18° Y 09'57	
direct	5530 May 16 07:32 5530 May 16 23:25	5° 8 53'10		desc. node	5531 May 03 04:32	18° Υ 48'07	
morning max el	5530 May 31 04:35	13° 8 51'36	27051127	morning max el	5531 May 13 12:25	26°Υ09'30	27°44'18
morning max er	5530 Jun 13 03:23	0°II	2/ 313/	morning max er	5531 May 17 01:55	0° 8	27 44 16
	5530 Jun 30 13:47	0°9			•	0°U	
. ,				. ,	5531 Jun 06 17:02	0°Щ 19°Щ22'51	
morning set	5530 Jul 03 05:49	5°922'53		morning set	5531 Jun 17 02:59		
asc. node	5530 Jul 07 03:32	13°935'36	1 22116 ATT	E d E d	5531 Jun 22 06:43	0°©	1 22704 ATT
max. Earth dist.	5530 Jul 09 02:39	17° © 50'23	1.32116 AU	max. Earth dist.	5531 Jun 22 06:42	29° ∏ 59'53	1.32784 AU
				asc. node	5531 Jun 24 00:34	3° © 42'54	
superior conj	5530 Jul 10 14:39	21°507'09	0°35'23		5501 X 04 00 05		0000110
minimum elong	5530 Jul 10 13:07	20°958'46	0°35'03	superior conj	5531 Jun 24 22:05	5°938'30	0°09'18
	5530 Jul 14 15:45	0 \circ Ω		minimum elong	5531 Jun 24 21:38	5° © 36'04	0°09'12
evening rise	5530 Jul 17 10:26	6° Ω 00′24		behind sun begin	5531 Jun 24 17:16	5° © 12'32	
	5530 Jul 30 00:10	0°Щ		behind sun end	5531 Jun 25 02:00	5° © 59'37	
desc. node	5530 Aug 12 06:48	17° m 25'28		evening rise	5531 Jul 01 22:15	20° © 45'56	
evening max el	5530 Aug 12 09:21	17° m 31'37	24°51'01		5531 Jul 06 09:46	$0^{\circ}\Omega$	
retrograde	5530 Aug 26 06:58	24° Mp 32'23		evening max el	5531 Jul 24 21:46	27° Ω 54'43	23°14'29
evening set	5530 Aug 31 16:08	23° Mp 27'02			5531 Jul 27 05:46	0°Щ	
min. Earth dist.	5530 Sep 05 20:45		0.57115 AU	desc. node	5531 Jul 30 03:48	2°Mp05'38	
inferior conj	5530 Sep 08 17:03	18° m 49'25	-5°19'36	retrograde	5531 Aug 07 08:53	4° Mp 38′56	
minimum elong	5530 Sep 08 17:53	18° Mp 48′04	5°19'36	evening set	5531 Aug 11 06:04	4° ₯ 05'58	
morning rise	5530 Sep 16 21:56	14° m 41'31		min. Earth dist.	5531 Aug 18 06:55	0° m 53′00	0.55594 AU
direct	5530 Sep 19 11:57	14° Mp 22'35			5531 Aug 19 19:14	30°R $Ω$	
morning max el	5530 Sep 28 16:40	18° m 42'38	19°16'38	inferior conj	5531 Aug 20 02:15	29° Ω 49'44	
asc. node	5530 Oct 03 02:47	23° m 49'25		minimum elong	5531 Aug 19 20:29	29° Ω 58'11	5°00'41
	5530 Oct 07 04:10	0∘ ত		morning rise	5531 Aug 28 13:12	25° Ω 57'53	
morning set	5530 Oct 15 17:36	16° ≏ 01'19		direct	5531 Aug 31 11:38	25° Ω 37'12	
	5530 Oct 22 18:05	0°M			5531 Sep 10 12:44	0° m	
				morning max el	5531 Sep 11 04:46	0°m/36'12	20°28'41
superior conj	5530 Oct 23 20:51	2°M10'41	1°33'57	asc. node	5531 Sep 19 23:49	11° m 54'13	
minimum elong	5530 Oct 23 23:16	2°M22'23	1°33'47	morning set	5531 Sep 29 23:53	0° ≏ 40'40	
max. Earth dist.	5530 Oct 30 09:24	14°M28'31	1.38274 AU	-	5531 Sep 29 15:56	0∘ ত	
evening rise	5530 Nov 03 03:46	21°M11'40			<u>*</u>		
desc. node	5530 Nov 08 06:03	29°M51'11		superior conj	5531 Oct 07 13:02	16° ≙ 13′20	1°42'04
				. ,			

Fiancially Fliction	omena or wiercury	110111 3100	unougn 3002	(O1), Ashoulelist	AU 16-FC0-2023 1	4.22, pa	ige 232
minimum elong	5531 Oct 07 13:53	16° ≏ 17'43	1°42'03	minimum elong	5532 Sep 20 13:26	0° ჲ 38'06	10/12/30
max. Earth dist.	5531 Oct 07 15:33 5531 Oct 12 16:43	26° £ 26'39	1.36272 AU	max. Earth dist.	5532 Sep 24 06:35	8° £ 20'13	1.34568 AU
max. Earm dist.		20 == 2039	1.30272 AU		-		1.54508 AU
	5531 Oct 14 13:24	3°ML49'09		evening rise	5532 Sep 28 17:36	17° ≙ 11'18 0° M	
evening rise	5531 Oct 16 14:33			JJ.	5532 Oct 05 16:43	10°M32'42	
desc. node	5531 Oct 26 03:05	20°M20'11		desc. node	5532 Oct 12 00:07		
·	5531 Nov 01 07:00	0° ⊀ 7 25° ₹26112	26002157		5532 Oct 25 15:31	0° ⊼	26055155
evening max el	5531 Nov 21 06:07	25° メ 26'13 0°る	26°03'57	evening max el	5532 Nov 02 18:49		26°55'55
. 1	5531 Nov 26 18:09			retrograde	5532 Nov 15 23:26	16° ₹ 21'10	
retrograde	5531 Dec 03 20:07	2°る34'35		evening set	5532 Nov 22 16:10	13° ₹ 41'56	0.65610.444
evening set	5531 Dec 10 00:55	0° る 01'56		min. Earth dist.	5532 Nov 26 15:33	9° x ⁷ 46'19	
· P d P ·	5531 Dec 10 01:51	30°₹ ⋌ 7	0.66707.411	inferior conj	5532 Nov 28 14:54	7° ₹ 30'06	
min. Earth dist.	5531 Dec 14 06:47	25° 🗷 31'04	0.66787 AU	minimum elong	5532 Nov 28 17:21		1°24'30
inferior conj	5531 Dec 15 18:24	23° 🖈 40'26		asc. node	5532 Dec 02 20:03	3° √ 10'47	
minimum elong	5531 Dec 15 19:03	23° 🖈 38'25	0°24'05	morning rise	5532 Dec 04 19:31	1° 🖈 52'28	
asc. node	5531 Dec 16 23:02	22° ∡ 12'38		direct	5532 Dec 07 14:01	1° √ 10'32	
morning rise	5531 Dec 21 13:42	17° ₹ 50'58		morning max el	5532 Dec 14 02:01	4° ₹ 39'56	18°12'39
direct	5531 Dec 24 17:15	16° ₹ 54'25			5532 Dec 31 08:30	0°ಕ	
morning max el	5531 Dec 31 11:52	20° ∡ 37'38	18°49'39	morning set	5533 Jan 01 20:57	2° る 28'15	
	5532 Jan 07 22:24	0°ਤ		desc. node	5533 Jan 07 23:21	12° る 20'32	
morning set	5532 Jan 22 06:00	21° ろ 59'14				_	
desc. node	5532 Jan 22 02:18	21° る 44'44		superior conj	5533 Jan 16 21:02	26° る 29'59	
	5532 Jan 27 08:44	0° ≈		minimum elong	5533 Jan 16 13:49	26° පි 01'33	
max. Earth dist.	5532 Feb 06 09:12	15° ≈ 41'35	1.45214 AU	max. Earth dist.	5533 Jan 19 04:27	0° ≈ 07'44	1.45302 AU
					5533 Jan 19 02:29	0° ≈	
superior conj	5532 Feb 07 17:07	17° ≈ 46'57	-1°40'04	evening rise	5533 Feb 02 02:25	21° ≈ 51′06	
minimum elong	5532 Feb 07 07:47	17° ≈ 10'18	1°39'13		5533 Feb 07 08:03	0° ∀	
	5532 Feb 15 10:33	0° ℋ		greatest brilliancy	5533 Feb 14 01:43	10°) 22′13	-0.7m
evening rise	5532 Feb 22 23:42	12°) €06′23		evening max el	5533 Feb 26 03:55	26°) 39′54	19°24'21
	5532 Mar 05 03:25	0 ° $\mathbf{\Upsilon}$		asc. node	5533 Feb 28 19:19	29° ₩ 00'11	
asc. node	5532 Mar 13 22:18	12° Ƴ 10′24			5533 Mar 02 09:52	$0^{\circ}\Upsilon$	
evening max el	5532 Mar 14 19:59	13° Ƴ 07'50	18°40'53	retrograde	5533 Mar 05 07:35	0° Ƴ 45'28	
retrograde	5532 Mar 21 10:49	16° Ƴ 47'30			5533 Mar 08 02:30	30°₽)	
evening set	5532 Mar 24 15:56	15° Ƴ 48'42		evening set	5533 Mar 08 20:00	29°) 33′05	
inferior conj	5532 Mar 30 08:19	10° Ƴ 11'08	3°31'22	inferior conj	5533 Mar 14 07:18	23°) (40′02	3°21'13
minimum elong	5532 Mar 30 07:57	10° Ƴ 12'17	3°31'21	minimum elong	5533 Mar 14 05:47	23°) 45′00	3°21'03
min. Earth dist.	5532 Apr 01 06:22	7° Ƴ 51'00	0.65200 AU	min. Earth dist.	5533 Mar 15 14:15	21° ¥ 59′05	0.66564 AU
morning rise	5532 Apr 04 23:25	3° Y 57′23		morning rise	5533 Mar 19 15:15	17°) € 24'45	
direct	5532 Apr 11 14:36	1° Y 08'05		direct	5533 Mar 25 20:25	14°)(39'07	
desc. node	5532 Apr 19 01:32	3° Y 55'38		desc. node	5533 Apr 05 22:34	20°) 43'46	
morning max el	5532 Apr 24 22:31	8° Y 58'37	27°03'10	morning max el	5533 Apr 07 08:23	22°) €06'35	25°55'58
	5532 May 11 08:35	9° 8		•	5533 Apr 14 06:08	$0^{\circ}\mathbf{\Upsilon}$	
	5532 May 29 02:37	$\Pi^{\circ}0$			5533 May 04 14:50	0°8	
morning set	5532 May 30 14:28	2° Ⅱ 51′07		morning set	5533 May 13 12:24	15° 8 36'43	
max. Earth dist.	5532 Jun 04 01:32	11° Ⅱ 40′28	1.33913 AU	max. Earth dist.	5533 May 17 08:52	22° 8 52'09	1.35505 AU
					5533 May 21 00:13	0° Ⅱ	
superior conj	5532 Jun 08 00:18	19° Ⅱ 49'40	-0°19'23		•		
minimum elong	5532 Jun 08 01:20	19° Ⅱ 55'04	0°19'11	superior conj	5533 May 22 18:50	3° ∏ 33'58	-0°49'24
asc. node	5532 Jun 09 21:35	23° Ⅱ 48'21		minimum elong	5533 May 22 21:36	3° Ⅱ 47'56	0°48'54
	5532 Jun 12 19:35	0°€		asc. node	5533 May 27 18:37	13° ∏ 48'11	
evening rise	5532 Jun 15 08:47	5° © 23'11		evening rise	5533 May 30 16:02	19° Ⅱ 45'56	
	5532 Jun 28 19:02	0° N			5533 Jun 04 19:27	0.2e	
evening max el	5532 Jul 05 14:33	8° Ω 20'23	21°39'13	evening max el	5533 Jun 17 18:40	19° © 18'49	20°17'29
desc. node	5532 Jul 16 00:49	14° Ω 19'51		retrograde	5533 Jun 28 13:48	24°936'13	_, _,
retrograde	5532 Jul 18 00:26	14° Ω 29'09		evening set	5533 Jun 30 12:32	24°526'37	
evening set	5532 Jul 20 13:51	14° Ω 14'18		desc. node	5533 Jul 02 21:49	23°950'33	
inferior conj	5532 Jul 29 21:33	10° Ω 13'21	-3°51'02	inferior conj	5533 Jul 09 16:05	20°528'35	-2°00'50
minimum elong	5532 Jul 29 12:36	10° Ω 25'51	3°48'34	minimum elong	5533 Jul 09 10:03		1°58'48
min. Earth dist.	5532 Jul 29 16:47	10° Ω 20'01	0.54823 AU	min. Earth dist.	5533 Jul 11 04:33	19° © 35'00	0.55001 AU
morning rise	5532 Aug 07 12:37	6° Ω 21'41	0.5 1025 AU	morning rise	5533 Jul 11 04:33	16° © 16'11	5.55001 AU
direct	5532 Aug 10 21:51	5° Ω 56'44		direct	5533 Jul 22 08:23	15°9540'36	
morning max el	5532 Aug 10 21:51 5532 Aug 23 04:59	11° Ω 43'43	22°00'15	morning max el	5533 Aug 04 20:49	22°©15'55	23°43'22
asc. node	5532 Sep 05 20:50	0° m/38'40	22 00 10	morning max of	5533 Aug 04 20:49 5533 Aug 11 16:01	0°Ω	TJ
asc. node	5532 Sep 05 20:30 5532 Sep 05 12:13	0°M)		asc. node	5533 Aug 23 17:54	19° Ω 53'07	
morning set	5532 Sep 03 12:13 5532 Sep 13 09:43	15° m) 29'01		morning set	5533 Aug 28 21:14	0° m 21'09	
	5532 Sep 19 05:43	ე° <u>ი</u>			5533 Aug 28 17:14	0°M0 0°M0	
	2022 30p 20 00.11	· -			5555 114g 20 17.14	יעי י	
superior conj	5532 Sep 20 13:57	0° ـ 40'53	1°42'40	superior conj	5533 Sep 04 20:42	15° m 24'25	1°36'52
	Sep =0 15.57	_ 1000	2.0				

	5522 0 04 10 00	1.50 m. 1.5150	1027145	. 1	5524 X 1 17 10 15	20525122	25024122
minimum elong	5533 Sep 04 19:08	15° Mp 15'59		morning max el	5534 Jul 17 10:15	2° © 35'23	25°24'32
max. Earth dist.	5533 Sep 07 05:09	20° m) 27'10	1.33269 AU	1	5534 Aug 05 17:56	0° Q	
	5533 Sep 11 19:27	0° Ω		asc. node	5534 Aug 10 14:58	9° Ω 29'25	
evening rise	5533 Sep 12 08:54	1° £ 07'44		morning set	5534 Aug 13 08:49	15° Ω 12'10	
desc. node	5533 Sep 28 21:08	0°M21'29			5524 4 20 06 55	00 m. 1 (127	1005122
	5533 Sep 28 15:33	0°M	27024112	superior conj	5534 Aug 20 06:55	-	1°25'33
evening max el	5533 Oct 16 06:49	22°M24'06	2/24/13	minimum elong	5534 Aug 20 04:46	0° Mp 04'36	1°25'17
retrograde	5533 Oct 29 20:47	29°M42'28		Fauth diat	5534 Aug 20 03:55	0°M)	1 22200 ATT
evening set	5533 Nov 05 22:00	27°M04'44	0.64105.411	max. Earth dist.	5534 Aug 21 11:16		1.32398 AU
min. Earth dist.	5533 Nov 09 15:59		0.64105 AU	evening rise	5534 Aug 27 09:02	15° Tp 28'48	
inferior conj	5533 Nov 12 03:10	21°M07'49		1 1	5534 Sep 03 19:20	0∘ ⊽	
minimum elong	5533 Nov 12 07:34	20°M56'18	2°27'48	desc. node	5534 Sep 15 18:09	19° Ω 36'59	
morning rise	5533 Nov 18 18:35	15°M44'55			5534 Sep 23 16:39	0°M,	
asc. node	5533 Nov 19 17:07	15°M25'55		evening max el	5534 Sep 28 16:06	5°M15'31	27°22'40
direct	5533 Nov 21 06:26	15°M13'39	15050110	retrograde	5534 Oct 12 11:12	12°M29'35	
morning max el	5533 Nov 27 18:46	18°M38'33	17°52'42	evening set	5534 Oct 19 15:05	10°M04'01	0.60000.133
	5533 Dec 06 03:07	0° ∡		min. Earth dist.	5534 Oct 23 06:21	7° ™ 09'58	0.62292 AU
morning set	5533 Dec 14 16:04	14° ∡ 19'51		inferior conj	5534 Oct 26 04:20	4°M26'51	
	5533 Dec 23 23:44	0° ठ		minimum elong	5534 Oct 26 10:21	4° ™ 12'49	3°30'58
desc. node	5533 Dec 25 20:24	3° る 03′24			5534 Oct 31 20:35	30°Ŗ 죠	
		_		morning rise	5534 Nov 02 07:24	29° ≏ 22'00	
superior conj	5533 Dec 27 15:53	6° ろ 00'28		direct	5534 Nov 04 15:27	28° ≏ 57'46	
minimum elong	5533 Dec 27 14:25	5° る 54'33	0°12'29	asc. node	5534 Nov 06 14:11	29° ≏ 15′09	
behind sun begin	5533 Dec 27 08:01	5° 云 28'32			5534 Nov 08 07:58	0° M	
behind sun end	5533 Dec 27 20:50	6° る 20'32		morning max el	5534 Nov 11 11:05	2°M26'12	17°50'37
max. Earth dist.	5534 Jan 01 23:01	14° る 30'08	1.44660 AU	morning set	5534 Nov 27 09:10	27° M 14'51	
	5534 Jan 11 21:19	0° ≈			5534 Nov 28 22:07	0° ∡	
evening rise	5534 Jan 12 14:34	1° ≈ 06′19					
	5534 Feb 01 01:01	0° ∀		superior conj	5534 Dec 08 12:13	16° ∡ ¹45'51	0°29'43
evening max el	5534 Feb 09 06:52	10° ¥ 13'57	20°22'56	minimum elong	5534 Dec 08 14:53	16° ∡ 757'11	0°29'21
asc. node	5534 Feb 15 16:21	14°) (40′42		desc. node	5534 Dec 12 17:26	23° ∡ ¹49'59	
retrograde	5534 Feb 17 05:50	14°) 53′42		max. Earth dist.	5534 Dec 15 14:42	28° ∡ ³33'41	1.43366 AU
evening set	5534 Feb 21 02:51	13° ¥ 26′51			5534 Dec 16 12:01	0°ප	
inferior conj	5534 Feb 26 11:31	7° ∺ 20'38	2°59'28	evening rise	5534 Dec 23 03:04	10°る30'04	
minimum elong	5534 Feb 26 09:19	7°) €28'05	2°59'01		5535 Jan 05 01:13	0°≈	
min. Earth dist.	5534 Feb 27 04:35	6° ∺ 22'29	0.67507 AU	evening max el	5535 Jan 23 04:27	23° ≈ 49'55	21°33'25
morning rise	5534 Mar 03 15:34	1° ₩ 06'08		retrograde	5535 Feb 01 03:30	29° ≈ 08'46	
	5534 Mar 05 00:45	30° ₹ ≈		asc. node	5535 Feb 02 13:24	28° ≈ 58′08	
direct	5534 Mar 09 07:44	28° ≈ 34′08		evening set	5535 Feb 05 10:42	27° ≈ 26'37	
	5534 Mar 14 01:56	0° ∀		inferior conj	5535 Feb 10 18:43	21° ≈ 09'59	2°28'11
morning max el	5534 Mar 20 17:02	5° ∺ 22'59	24°32'29	minimum elong	5535 Feb 10 16:19	21° ≈ 18'17	2°27'30
desc. node	5534 Mar 23 19:37	8°) 44′09		min. Earth dist.	5535 Feb 10 23:12	20° ≈ 54'25	0.68032 AU
	5534 Apr 08 16:59	0 ° Υ		morning rise	5535 Feb 15 21:46	14° ≈ 57'55	
morning set	5534 Apr 25 15:32	27° Ƴ 24'32		direct	5535 Feb 20 23:30	12° ≈ 45'59	
	5534 Apr 27 02:44	9° 8		morning max el	5535 Mar 03 02:20	18° ≈ 45'48	23°03'07
max. Earth dist.	5534 Apr 29 06:34	3° 8 53'08	1.37496 AU	desc. node	5535 Mar 10 16:40	27° ≈ 36'38	
					5535 Mar 12 12:36	0° ∀	
superior conj	5534 May 06 02:26	16° 8 42'26			5535 Apr 01 20:32	0° Y	
minimum elong	5534 May 06 06:48	17° 8 03'36	1°18'15	morning set	5535 Apr 06 17:58	7° Ƴ 59'39	
	5534 May 12 20:01	Π $^{\circ}0$		max. Earth dist.	5535 Apr 11 02:04	15° Y 20′57	1.39700 AU
evening rise	5534 May 14 17:30	3° Ⅱ 46'44					
asc. node	5534 May 14 15:39	3° Ⅱ 37'36		superior conj	5535 Apr 18 19:06	29° Y ′05'40	-1°45'01
	5534 May 30 12:11	0ං ම		minimum elong	5535 Apr 19 00:13	29° Ƴ 29'14	1°44'30
evening max el	5534 May 31 11:20	0° © 59'29	19°14'49		5535 Apr 19 06:54	0°B	
retrograde	5534 Jun 09 13:20	5° 5 26'07		evening rise	5535 Apr 28 10:16	17° 8 18'26	
evening set	5534 Jun 11 12:32	5° © 14'31		asc. node	5535 May 01 12:41	23° 8 12'11	
inferior conj	5534 Jun 19 23:39	1° 5 05'05	-0°03'34		5535 May 05 05:54	Π °0	
minimum elong	5534 Jun 19 23:29	1°505'21	0°03'31	evening max el	5535 May 14 14:05	13° Ⅱ 18'49	18°32'28
transit middle	5534 Jun 19 23:29	1°505'21	0°03'31	retrograde	5535 May 22 07:26	17° Ⅱ 07'55	
transit begin	5534 Jun 19 19:45	1° © 11'35		evening set	5535 May 24 12:53	16° Ⅱ 49'53	
transit end	5534 Jun 20 03:14	0°959'06		inferior conj	5535 Jun 01 03:55	12° Ⅱ 21′09	1°32'47
desc. node	5534 Jun 19 18:51	1°513'05		minimum elong	5535 Jun 01 06:55	12° Ⅱ 15′17	1°31'48
	5534 Jun 21 14:35	30° Ŗ Ⅱ		min. Earth dist.	5535 Jun 04 13:03	9° Ⅱ 44′05	0.57913 AU
min. Earth dist.	5534 Jun 22 18:52	29° Ⅱ 13'39	0.56108 AU	desc. node	5535 Jun 06 15:53	8° I I16'00	
morning rise	5534 Jun 28 07:26	26° Ⅱ 18'41		morning rise	5535 Jun 08 21:42	6° Ⅱ 59'56	
direct	5534 Jul 03 06:16	25° Ⅲ 22'14		direct	5535 Jun 14 18:05	5° Ⅱ 33'01	
	5534 Jul 14 11:07	0ංම		morning max el	5535 Jun 29 03:16	13° Ⅱ 11'11	26°47'30

asa nada	5535 Jul 12 10:03 5535 Jul 28 11:59	0°ഇ 29° ഇ 20'43		morning set	5536 Jul 04 16:51	0°ഇ 14° ഇ 29'19	
asc. node	5535 Jul 28 11:59 5535 Jul 28 18:48	29° 9 56'33		morning set asc. node	5536 Jul 12 01:29 5536 Jul 14 09:00	14°9629'19 19°9522'02	
morning set	5535 Jul 28 19:27	29 3 30 33		max. Earth dist.	5536 Jul 18 08:49	28°502'39	1.31931 AU
	3333 Jul 20 17.27	0 00		max. Earth dist.	3330 Jul 10 00.47	20 30237	1.51751710
superior conj	5535 Aug 04 18:37	15° Ω 10'02	1°09'23	superior conj	5536 Jul 19 06:05	29° © 59'47	0°48'55
minimum elong	5535 Aug 04 16:20	14° Ω 57'23	1°09'00	minimum elong	5536 Jul 19 04:08	29° 5 49'04	0°48'32
max. Earth dist.	5535 Aug 04 21:45	15° Ω 27'22	1.31952 AU	-	5536 Jul 19 06:07	$0^{\circ}\Omega$	
evening rise	5535 Aug 11 15:11	0° m 05'23		evening rise	5536 Jul 26 01:06	14° Ω 50'36	
	5535 Aug 11 14:10	0° m)			5536 Aug 02 14:07	0° m)	
	5535 Aug 27 22:57	0∘ ⊽		desc. node	5536 Aug 19 12:10	25° Mp 26'32	
desc. node	5535 Sep 02 15:10	8° ჲ 05'04		evening max el	5536 Aug 22 15:39	28° m 42'00	25°40'42
evening max el	5535 Sep 10 19:47	17° ≏ 23'50	26°47'40		5536 Aug 24 01:49	0∘ ⊽	
retrograde	5535 Sep 24 17:30	24° △ 33'06		retrograde	5536 Sep 05 14:25	5° ≏ 47'28	
evening set	5535 Oct 01 15:01	22° ≏ 31'23		evening set	5536 Sep 11 16:55	4° ≏ 19'56	
min. Earth dist.	5535 Oct 05 09:46	19° ≙ 54'32	0.60270 AU	min. Earth dist.	5536 Sep 16 03:42	1° ≏ 43'04	0.58209 AU
inferior conj	5535 Oct 08 14:54	17° Ω 17'13			5536 Sep 18 14:06	30°Ŗ ™	
minimum elong	5535 Oct 08 21:12	17° Ω 04'18	4°28'22	inferior conj	5536 Sep 19 07:20	29° m 29'10	
morning rise	5535 Oct 16 05:25	12° △ 33'52		minimum elong	5536 Sep 19 11:11	29° m/22'18	5°09'33
direct	5535 Oct 18 12:58	12° £ 13'35		morning rise	5536 Sep 27 07:46	25° m 09'10	
asc. node	5535 Oct 24 11:15	14° Ω 33'52	10007127	direct	5536 Sep 29 18:21	24° M 50'26	10045115
morning max el	5535 Oct 25 23:40	15° Ω 53'55	18°07'37	morning max el	5536 Oct 08 05:07	28° m/52'28	18°45'15
marning got	5535 Nov 04 19:32	0°ጤ 10°ጤ53'52		asc. node	5536 Oct 09 07:47 5536 Oct 10 08:17	0° ჲ 1° ჲ 08'52	
morning set	5535 Nov 10 17:59	10 1163332		morning set	5536 Oct 10 08:17 5536 Oct 24 13:44	25° £ 08'32	
superior conj	5535 Nov 20 09:52	28°M44'26	1°02'44	morning set	5536 Oct 27 02:22	25 = 05 20 0° ™	
minimum elong	5535 Nov 20 03:32 5535 Nov 20 13:45	29°M01'49	1°02'16		3330 OCT 27 02.22	O IIG	
minimum clong	5535 Nov 21 02:47	0° √	1 02 10	superior conj	5536 Nov 02 04:04	11° M .42'49	1°25'20
max. Earth dist.	5535 Nov 28 01:42	12° × ⁷ 02'46	1.41570 AU	minimum elong	5536 Nov 02 07:16	11°M57'55	1°25'03
desc. node	5535 Nov 29 14:26	14° ∡ °36′20		max. Earth dist.	5536 Nov 09 07:47	24°M47'37	1.39492 AU
evening rise	5535 Dec 03 06:12	20° х 35'34			5536 Nov 12 07:41	0° ⊼ ¹	
<i>y</i>	5535 Dec 09 05:16	0°ెవ		evening rise	5536 Nov 13 07:26	1° ∡ ¹41'08	
	5535 Dec 30 08:41	0° ≈		desc. node	5536 Nov 15 11:26	5° ∡ 19'10	
evening max el	5536 Jan 05 21:13	7° ≈ 27'28	22°51'27		5536 Dec 01 12:37	8°0	
retrograde	5536 Jan 15 23:01	13° ≈ 26′10		evening max el	5536 Dec 18 10:49	21° る 08'02	24°11'16
asc. node	5536 Jan 20 10:27	11° ≈ 43′16		retrograde	5536 Dec 29 15:08	27° る 41'59	
evening set	5536 Jan 20 17:52	11° ≈ 28′18		evening set	5537 Jan 03 22:49	25° る 28'56	
inferior conj	5536 Jan 26 02:51	5° ≈ 04'34	1°48'42	asc. node	5537 Jan 06 07:30	23° る 03'59	
minimum elong	5536 Jan 26 00:44	5°≈11'56	1°47'57	min. Earth dist.	5537 Jan 08 16:02	20° る 03'21	0.67900 AU
min. Earth dist.	5536 Jan 25 19:45	5° ≈ 29'10	0.68153 AU	inferior conj	5537 Jan 09 10:10	19° る 02'10	1°01'56
	5536 Jan 30 03:57	30°₹₹		minimum elong	5537 Jan 09 08:46	19° る 06'54	1°01'23
morning rise	5536 Jan 31 07:30	28° ろ 56'25		morning rise	5537 Jan 14 18:47	12° ろ 59'28	
direct	5536 Feb 04 18:45	27° る 07'17		direct	5537 Jan 18 16:24	11° る 32'50	
	5536 Feb 11 03:37	0°≈	21027100	morning max el	5537 Jan 26 12:33		20°20'43
morning max el	5536 Feb 13 15:53	2°≈17'32	21°37′00		5537 Feb 06 14:16	0° ≈	
desc. node	5536 Feb 25 13:42	17° ≈ 06'09 0° ¥		desc. node morning set	5537 Feb 11 10:43	7°≈02'29 25°≈32'31	
morning set	5536 Mar 05 11:25 5536 Mar 16 16:00	0 X 17° ¥ 15'00		morning set	5537 Feb 23 15:48 5537 Feb 26 12:36	23 ≈ 32 31 0° ∺	
max. Earth dist.	5536 Mar 23 02:20	27°) 40'58	1.41825 AU	max. Earth dist.	5537 Mar 05 09:33		1.43603 AU
max. Earth dist.	5536 Mar 24 11:46	27 γ (40 36	1.41023 AU	max. Lartii dist.	3337 IVIAI 03 07.33	10 /(33 00	1.43003 AC
	3330 Mai 24 11.40	0 1		superior conj	5537 Mar 11 12:27	20° ¥ 51'35	-2°09'11
superior conj	5536 Mar 30 15:59	10° Ƴ 32'09	-2°03'36	minimum elong	5537 Mar 11 11:29	20°) (31'37	
minimum elong	5536 Mar 30 19:43	10° Y ′48′27			5537 Mar 16 23:12	0°Υ	
	5536 Apr 10 11:58	0°8		evening rise	5537 Mar 24 02:11	12° Y °17'46	
evening rise	5536 Apr 10 14:39	0° 8 12'20		<i>3</i>	5537 Apr 03 11:53	0°8	
asc. node	5536 Apr 17 09:43	12° 8 26'39		asc. node	5537 Apr 04 06:44	1° 8 13'26	
evening max el	5536 Apr 26 23:27	26° 8 08'36	18°10'16	evening max el	5537 Apr 10 11:57	9° 8 18'56	18°07'33
retrograde	5536 May 03 20:03	29° 8 36'32		retrograde	5537 Apr 16 22:55	12° 8 40'53	
evening set	5536 May 06 08:24	29° 8 09'09		evening set	5537 Apr 19 17:47	12° 8 02'14	
inferior conj	5536 May 13 05:24	24° 8 19'46	2°38'26	inferior conj	5537 Apr 26 00:39	6° 8 53'12	
minimum elong	5536 May 13 08:42		2°37'38	minimum elong	5537 Apr 26 02:43	6° 8 47'49	3°15'31
min. Earth dist.	5536 May 16 13:35	21° 8 18'36	0.60071 AU	min. Earth dist.	5537 Apr 28 22:32	3° 8 52'30	0.62260 AU
morning rise	5536 May 20 06:27	18° 8 32'05		morning rise	5537 May 02 10:04	0° 8 49'38	
desc. node	5536 May 23 12:54	17° 8 01'06			5537 May 03 15:52	30°₹ Υ	
direct	5536 May 26 18:38	16° 8 31'14	27020102	direct	5537 May 09 05:45	28° Y 20'07	
morning max el	5536 Jun 10 02:54	24° 8 25'01	27~39'03	desc. node	5537 May 10 09:56	28° Y 24'16	
	5536 Jun 15 04:41	Π °0			5537 May 15 05:33	0° 8	

morning max el	5537 May 23 08:25	6° 8 21'04	27°53'02	morning rise	5538 Apr 15 06:21	13° Y 42'06	
	5537 Jun 10 06:12	0°II		direct	5538 Apr 22 01:17	10° Y 55'52	
morning set	5537 Jun 26 02:48	28° ∏ 43'11		desc. node	5538 Apr 27 06:57	12° Y 19'04	
	5537 Jun 26 17:52	ი _ა ფ		morning max el	5538 May 05 17:28	18° Y 53'35	27°30'24
asc. node	5537 Jul 01 06:00	9° 5 28'06			5538 May 15 02:55	0°8	
max. Earth dist.	5537 Jul 01 16:24	10° © 23'58	1.32340 AU		5538 Jun 03 05:00	0°П	
				morning set	5538 Jun 09 20:14	12° Ⅲ 30'48	
superior conj	5537 Jul 03 15:30	14°939'14	0°24'42	max. Earth dist.	5538 Jun 14 16:39	22°Щ20'32	1.33205 AU
minimum elong	5537 Jul 03 14:22	14°533'06	0°24'26		5520 X 15 20 50	200 T 02150	0000100
evening rise	5537 Jul 10 12:42	29° © 37'12		superior conj	5538 Jun 17 20:59	29° I 102'50	
	5537 Jul 10 16:59	0° N		minimum elong	5538 Jun 17 21:07	29° Ⅲ 03'33 28° Ⅲ 34'57	0°02'38
avaning may al	5537 Jul 27 09:02	0° Mp 9° Mp 17′30	24910145	behind sun begin behind sun end	5538 Jun 17 15:45 5538 Jun 18 02:29	28° П 34'37 29° П 32'11	
evening max el desc. node	5537 Aug 04 05:02	-•	24°10'45	asc. node	5538 Jun 18 02:29	29° П 3211 29° П 35'06	
retrograde	5537 Aug 06 09:10 5537 Aug 18 00:04	11° Mp 14'28 16° Mp 13'59		asc. node	5538 Jun 18 07:42	29 П 3300	
evening set	5537 Aug 18 00:04 5537 Aug 22 18:18	15° Mp 23'45		evening rise	5538 Jun 25 00:11	14° © 19'39	
min. Earth dist.	5537 Aug 22 18:18 5537 Aug 28 15:47	•	0.56390 AU	evening rise	5538 Jul 02 21:25	0°Ω	
inferior conj	5537 Aug 20 13:47 5537 Aug 31 03:31	10° m 55'09		evening max el	5538 Jul 16 18:22	19° Ω 37'42	22°32'56
minimum elong	5537 Aug 31 03:31	10° m 58'13		desc. node	5538 Jul 24 06:12	24°Ω56'17	22 32 30
morning rise	5537 Sep 08 11:16	6° m 55'33	3 17 30	retrograde	5538 Jul 29 21:01	26°Ω09'01	
direct	5537 Sep 11 04:20	6° Mp 36'16		evening set	5538 Aug 02 02:52	25° Ω 45'55	
morning max el	5537 Sep 21 00:12	11° Mp 11'45	19°44'45	min. Earth dist.	5538 Aug 10 01:47	22°Ω17'02	0.55157 AU
asc. node	5537 Sep 27 05:18	18° m) 44'30	17 11 15	inferior conj	5538 Aug 11 05:37	21°Ω37'29	
use. Houe	5537 Oct 03 20:10	0∘ ʊ		minimum elong	5538 Aug 10 21:43	21° Ω 48'43	
morning set	5537 Oct 08 16:56	9° م 33'32		morning rise	5538 Aug 19 18:31	17° Ω 47'42	. 5015
morning sec	3337 300 00 10.30) — 3332		direct	5538 Aug 22 21:07	17°Ω25'35	
superior conj	5537 Oct 16 13:29	25° ≏ 25'24	1°38'23	morning max el	5538 Sep 03 07:00	22° Ω 45'01	21°05'35
minimum elong	5537 Oct 16 15:15	25° Ω 34'06	1°38'18	morning man vi	5538 Sep 09 12:13	0° m)	21 00 30
g	5537 Oct 18 21:27	0°M	1 30 10	asc. node	5538 Sep 14 02:19	7° Mp 07'22	
max. Earth dist.	5537 Oct 22 12:35	6°M54'50	1.37390 AU	morning set	5538 Sep 23 00:56	24° m) 16'56	
evening rise	5537 Oct 26 06:53	13°M47'19			5538 Sep 25 18:42	0∘ ⊽	
desc. node	5537 Nov 02 08:28	25°M54'29					
	5537 Nov 04 21:01	0° × ⁷		superior conj	5538 Sep 30 09:45	9° م 39'23	1°43'10
	5537 Nov 26 10:00	0°₹		minimum elong	5538 Sep 30 09:59	9° Ω 40'36	1°43'09
evening max el	5537 Nov 30 23:26	4° ප 52'08	25°26'11	max. Earth dist.	5538 Oct 04 22:04	18° ≏ 47'30	1.35500 AU
retrograde	5537 Dec 13 02:56	11° る 51'38		evening rise	5538 Oct 09 01:05	26° ≏ 45'08	
evening set	5537 Dec 18 23:58	9° පි 25'19		•	5538 Oct 10 19:01	0°M	
min. Earth dist.	5537 Dec 23 09:46	4° る 34'03	0.67288 AU	desc. node	5538 Oct 20 05:29	16°M17'06	
asc. node	5537 Dec 24 04:32	3° る 33'42			5538 Oct 29 06:11	0°⊀	
inferior conj	5537 Dec 24 14:53	3° ⋜ 00′16	0°08'47	evening max el	5538 Nov 13 12:20	18° ∡ ³35′05	26°28'42
minimum elong	5537 Dec 24 14:39	3° ⋜ 01′00	0°08'42	retrograde	5538 Nov 26 09:26	25° х ⁴48'31	
transit middle	5537 Dec 24 14:39	3° ප 01'00	0°08'42	evening set	5538 Dec 02 19:26	23° ∡ 12'38	
transit begin	5537 Dec 24 12:18	3° ප 08'36		min. Earth dist.	5538 Dec 06 22:34	18° ₹ 56'31	0.66325 AU
transit end	5537 Dec 24 17:00	2° る 53'24		inferior conj	5538 Dec 08 15:01	16° ≯ 54'33	-0°49'51
	5537 Dec 27 01:18	30°₽ ⋌		minimum elong	5538 Dec 08 16:23	16° ₹ 50′24	0°49'14
morning rise	5537 Dec 30 05:40	27° ₹ 05'06		asc. node	5538 Dec 11 01:34	14° ₹ 05'30	
direct	5538 Jan 02 15:15	25° ₹ 58'32		morning rise	5538 Dec 14 14:01	11° ₹ 09′28	
morning max el	5538 Jan 09 17:08		19°18'21	direct	5538 Dec 17 13:28	10° х 19'33	
	5538 Jan 09 19:07	0°る		morning max el	5538 Dec 24 04:24	13° ∡ ′55'50	18°31'51
greatest brilliancy	5538 Jan 23 00:56	17° る 43'47	-0.7m		5539 Jan 04 22:44	0°る	
desc. node	5538 Jan 29 07:44	27° る 18'37		morning set	5539 Jan 13 13:05	13°る35'49	
	5538 Jan 31 01:37	0° ≈		desc. node	5539 Jan 16 04:45	17° る 48'32	
morning set	5538 Feb 02 15:13	3° ≈ 58′07			5539 Jan 23 22:03	0° ≈	
max. Earth dist.	5538 Feb 15 23:23	24° ≈ 47′29	1.44822 AU				
				superior conj	5539 Jan 29 12:24	8° ≈ 47'08	
superior conj	5538 Feb 19 08:10	0°) €07'23		minimum elong	5539 Jan 29 03:08	8°≈10'49	
minimum elong	5538 Feb 19 00:52	29°≈38′21	1°56'00	max. Earth dist.	5539 Jan 29 17:48	9°≈08'19	1.45347 AU
i- ·	5538 Feb 19 06:18	0°) (5539 Feb 12 00:05	0°) (
evening rise	5538 Mar 05 16:37	23°) €27'29		evening rise	5539 Feb 14 07:42	3°) (40′23	0.0
aga m-J-	5538 Mar 09 15:08	0° Υ		greatest brilliancy	5539 Feb 23 09:55	18°) 04'42 0° \'	-0.8m
asc. node	5538 Mar 22 03:46	19° Y 24'03	10022125	avanie 1	5539 Mar 03 08:52		10057104
evening max el	5538 Mar 25 00:39	22° Υ 42'35 26° Υ 12'02	18°23'35	evening max el	5539 Mar 08 10:59	6°° Y ′13'08 6° Y ′47'17	18°57'24
retrograde	5538 Mar 31 11:34	26° \ \bigvee 12.02 \\ 25\circ \bigvee 20'52		asc. node	5539 Mar 09 00:49	10° Υ '02'08	
evening set inferior conj	5538 Apr 03 12:52 5538 Apr 09 09:34	19° Y 53'30	3°30'45	retrograde evening set	5539 Mar 15 06:15 5539 Mar 18 14:25	8° Υ 57'35	
minimum elong	5538 Apr 09 10:02	19° Y 53'30' 19° Y 52'09	3°30'45 3°30'44	inferior conj	5539 Mar 18 14:25 5539 Mar 24 04:19	3°Υ13'21	3028126
min. Earth dist.	5538 Apr 10 10:02 5538 Apr 11 16:45		0.64233 AU	minimum elong	5539 Mar 24 04:19 5539 Mar 24 03:25	3°Υ13'21 3°Υ16'13	
		1/ 11414	U.UT4JJ AU	mmmum ciong	00.43 1viai 47 00.43	J 1 10 13	J 20 J2

min. Earth dist.	5539 Mar 25 19:52	1° Ƴ 09'10	0.65842 AU	retrograde	5540 Feb 27 03:57	24°) €05'30	
mm. Barur Gige.	5539 Mar 26 18:41	30° R ₩	0.000 .2 110	evening set	5540 Mar 01 19:57	22°) (46'50	
morning rise	5539 Mar 29 16:00	26°) 58'51		inferior conj	5540 Mar 07 05:50		3°13'15
direct	5539 Apr 05 03:35	24°) €09'37		minimum elong	5540 Mar 07 03:59	16°) €53'57	3°12'57
desc. node	5539 Apr 14 03:59	28°) 13′19		min. Earth dist.	5540 Mar 08 06:38	15°) €25'10	0.67025 AU
	5539 Apr 16 05:22	$_{0}$ ° γ		morning rise	5540 Mar 12 11:47	10°) €32'46	
morning max el	5539 Apr 18 03:29	1° Y 51'29	26°37'06	direct	5540 Mar 18 11:40	7° ℋ 52'12	
	5539 May 09 06:19	0° ႘		morning max el	5540 Mar 30 12:51	15° ℋ 04'10	25°21'49
morning set	5539 May 24 02:30	25° 8 42'22		desc. node	5540 Mar 31 01:02	15° ℋ 35'20	
	5539 May 26 08:14	$\Pi^{\circ}0$			5540 Apr 11 18:42	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	5539 May 28 06:32	3° Ⅱ 47'18	1.34539 AU		5540 May 01 03:01	8°	
				morning set	5540 May 05 17:08	8° 8 05'16	
superior conj	5539 Jun 01 20:19	13° Ⅱ 03'56	-0°32'02	max. Earth dist.	5540 May 09 09:38	14° 8 52'51	1.36317 AU
minimum elong	5539 Jun 01 22:04	13° Ⅱ 12'58	0°31'42				
asc. node	5539 Jun 05 00:05	19° Ⅲ 38'59		superior conj	5540 May 15 10:39	26° 8 34'16	-1°02'07
evening rise	5539 Jun 09 09:36	28° Ⅲ 51'51		minimum elong	5540 May 15 14:09	26° 8 51'38	1°01'32
	5539 Jun 09 22:45	0ංම			5540 May 17 03:49	Π $^{\circ}0$	
	5539 Jun 28 09:19	$0^{\circ}\Omega$		asc. node	5540 May 21 21:08	9° Ⅱ 35'10	
evening max el	5539 Jun 28 15:38	0° Ω 15'39	21°02'21	evening rise	5540 May 23 14:45	13° Ⅱ 06'38	
retrograde	5539 Jul 10 09:44	6° Ω 03'00			5540 Jun 01 12:36	0ංම	
desc. node	5539 Jul 11 03:13	6° Ω 01'44		evening max el	5540 Jun 10 01:06	11° 5 31'26	19°48'16
evening set	5539 Jul 12 14:51	5° Ω 51'29		retrograde	5540 Jun 20 02:12	16°926'37	
inferior conj	5539 Jul 21 22:48	1° Ω 53'57		evening set	5540 Jun 21 23:56	16° © 16'46	
minimum elong	5539 Jul 21 14:35	2° Ω 05'30	3°04'47	desc. node	5540 Jun 27 00:15	14° 5 29'29	
min. Earth dist.	5539 Jul 22 12:09	1° Ω 35'07	0.54781 AU	inferior conj	5540 Jun 30 21:24	12° © 14'54	-1°09'54
	5539 Jul 25 10:05	30° ₹ 5		minimum elong	5540 Jun 30 18:10	12° © 19'52	1°08'41
morning rise	5539 Jul 30 14:35	27° © 56'04		min. Earth dist.	5540 Jul 03 00:36	10° © 56'13	0.55366 AU
direct	5539 Aug 03 06:11	27° © 27'27		morning rise	5540 Jul 09 10:21	7° © 49'15	
	5539 Aug 11 11:46	$0^{\circ}\Omega$		direct	5540 Jul 13 20:13	7° © 06'26	
morning max el	5539 Aug 16 02:53	3° Ω 35'15	22°43'24	morning max el	5540 Jul 27 16:55		24°27'44
asc. node	5539 Aug 31 23:22	26° Ω 06′13			5540 Aug 09 05:18	$0^{\circ}\Omega$	
	5539 Sep 03 00:12	0° т р		asc. node	5540 Aug 17 20:25	15° Ω 31'01	
morning set	5539 Sep 07 11:44	9° ™ 08'14		morning set	5540 Aug 21 23:30	24° Ω 00'55	
					5540 Aug 24 18:21	0° т р	
superior conj	5539 Sep 14 13:29	24° m 15'07	1°40'56		5540 4 20 21 50	00,000,000,00	1022142
superior conj minimum elong	5539 Sep 14 12:28	24° m 09'42	1°40'56 1°40'53	superior conj	5540 Aug 28 21:58	9° m 03'13	1°32'42
minimum elong	5539 Sep 14 12:28 5539 Sep 17 06:51	24°∰09'42 0° ჲ	1°40'53	minimum elong	5540 Aug 28 20:06	8° m 53'03	1°32'31
minimum elong max. Earth dist.	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00	24° № 09'42 0° <u>Ω</u> 0° <u>Ω</u> 47'37		minimum elong max. Earth dist.	5540 Aug 28 20:06 5540 Aug 30 18:15	8° m 53'03 13° m 03'16	
minimum elong	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48	1°40'53	minimum elong	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17	8° m 53'03 13° m 03'16 24° m 31'44	1°32'31
minimum elong max. Earth dist. evening rise	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m	1°40'53	minimum elong max. Earth dist. evening rise	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04	8° m 53'03 13° m 03'16 24° m 31'44 0° <u>a</u>	1°32'31
minimum elong max. Earth dist.	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31	24° m 09'42 0° <u>a</u> 0° <u>a</u> 10° <u>a</u> 23'48 0° m 6° m 21'04	1°40'53	minimum elong max. Earth dist.	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32	8° M 53'03 13° M 03'16 24° M 31'44 0° Ω 25° Ω 57'20	1°32'31
minimum elong max. Earth dist. evening rise desc. node	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01	24° ነው 09'42 0° <u>ፍ</u> 0° <u>ፍ</u> 47'37 10° <u>ፍ</u> 23'48 0° ነሌ 6° ነሌ 21'04 0° ጆ	1°40'53 1.33965 AU	minimum elong max. Earth dist. evening rise desc. node	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03	8° \mathbf{m} 53'03 13° \mathbf{m} 03'16 24° \mathbf{m} 31'44 0° \oldsymbol{\Omega} 25° \oldsymbol{\Omega} 57'20 0° \mathbf{m}	1°32'31 1.32844 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09	24° m 09'42 0° Ω 0° Ω47'37 10° Ω23'48 0° M 6° M21'04 0° ⊀ 2° ₹ 07'52	1°40'53 1.33965 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10	8° ኪ 53'03 13° ኪ 03'16 24° ኪ 31'44 0° Ω 25° Ω 57'20 0° ጤ 15° ጤ 17'09	1°32'31 1.32844 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x 07'52 9° x 25'44	1°40'53 1.33965 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23	8° ኪ 53'03 13° ኪ 03'16 24° ኪ 31'44 0° <u>ឆ</u> 25° <u>ឆ</u> 57'20 0° ጤ 15° ጤ 17'09 22° ጤ 33'51	1°32'31 1.32844 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x 07'52 9° x 25'44 6° x 46'13	1°40'53 1.33965 AU 27°11'19	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51	8° \mathbf{m} 53'03 13° \mathbf{m} 03'16 24° \mathbf{m} 31'44 0° \omega 25° \cdot 557'20 0° \mathbf{m} 15° \mathbf{m} 17'09 22° \mathbf{m} 33'51 19° \mathbf{m} 59'36	1°32'31 1.32844 AU 27°27'25
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x 07'52 9° x 25'44 6° x 46'13 3° x 05'11	1°40'53 1.33965 AU 27°11'19 0.65018 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06	8° \$\mathbf{m}\$53'03 13° \$\mathbf{m}\$03'16 24° \$\mathbf{m}\$31'44 0° \$\mathbf{\Omega}\$ 25° \$\mathbf{\Omega}\$57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$17'09 22° \$\mathbf{m}\$33'51 19° \$\mathbf{m}\$59'36 16° \$\mathbf{m}\$50'41	1°32'31 1.32844 AU 27°27'25 0.63372 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22	24° № 09'42 0° <u>Ω</u> 0° <u>Ω</u> 47'37 10° <u>Ω</u> 23'48 0° M. 6° M.21'04 0° X 2° X 07'52 9° X 25'44 6° X 46'13 3° X 05'11 0° X 40'22	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15	8° \$\mathbf{m}\$53'03 13° \$\mathbf{m}\$03'16 24° \$\mathbf{m}\$31'44 0° \$\mathbf{\Omega}\$ 25° \$\mathbf{\Omega}\$57'20 0° \$\mathbf{m}\$17'09 22° \$\mathbf{m}\$33'51 19° \$\mathbf{m}\$59'36 16° \$\mathbf{m}\$50'41 14° \$\mathbf{m}\$10'49	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x 07'52 9° x 25'44 6° x 46'13 3° x 05'11 0° x 40'22 0° x 31'18	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25	8° \$\mathbf{n} 53'03 13° \$\mathbf{n} 03'16 24° \$\mathbf{n} 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 57'54	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00	24° 100942 0° 247'37 10° 223'48 0° 11. 6° 11.21'04 0° 27. 2° 27.07'52 9° 27.25'44 6° 27.46'13 3° 27.05'11 0° 27.40'22 0° 27.31'18 30° R.M.	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36	8° \$\mathbf{n} 53'03 13° \$\mathbf{n} 03'16 24° \$\mathbf{n} 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 57'54 8° \$\mathbf{m} 55'26	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x 07'52 9° x 25'44 6° x 46'13 3° x 05'11 0° x 40'22 0° x 31'18 30° R m 25° m 33'09	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32	8° \$\mathbf{m}\$ 53'03 13° \$\mathbf{m}\$ 03'16 24° \$\mathbf{m}\$ 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega}\$ 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$ 17'09 22° \$\mathbf{m}\$ 33'51 19° \$\mathbf{m}\$ 59'36 16° \$\mathbf{m}\$ 50'41 14° \$\mathbf{m}\$ 10'49 13° \$\mathbf{m}\$ 57'54	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° × 2° × 07'52 9° × 25'44 6° × 46'13 3° × 05'11 0° × 40'22 0° × 31'18 30° RM 25° m 33'09 25° m 08'28	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39	8° \$\mathbf{m}\$ 53'03 13° \$\mathbf{m}\$ 03'16 24° \$\mathbf{m}\$ 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{n}\$ 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$ 17'09 22° \$\mathbf{m}\$ 33'51 19° \$\mathbf{m}\$ 59'36 16° \$\mathbf{m}\$ 50'41 14° \$\mathbf{m}\$ 10'49 13° \$\mathbf{m}\$ 55'26 8° \$\mathbf{m}\$ 27'32 8° \$\mathbf{m}\$ 27'36	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x' 2° x' 07'52 9° x' 25'44 6° x' 46'13 3° x' 05'11 0° x' 40'22 0° x' 31'18 30° RM 25° m 08'28 24° m 31'23	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58	8° \$\mathbf{m}\$ 53'03 13° \$\mathbf{m}\$ 03'16 24° \$\mathbf{m}\$ 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{m}\$ 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$ 17'09 22° \$\mathbf{m}\$ 33'51 19° \$\mathbf{m}\$ 59'36 16° \$\mathbf{m}\$ 50'41 14° \$\mathbf{m}\$ 10'49 13° \$\mathbf{m}\$ 57'54 8° \$\mathbf{m}\$ 55'26 8° \$\mathbf{m}\$ 27'32 8° \$\mathbf{m}\$ 27'36 11° \$\mathbf{m}\$ 52'34	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x 07'52 9° x 25'44 6° x 46'13 3° x 05'11 0° x 40'22 0° x 31'18 30° RM 25° m 08'28 24° m 31'23 27° m 57'31	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18	8° \$\mathbf{n} 53'03 13° \$\mathbf{n} 03'16 24° \$\mathbf{n} 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{n} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 55'54 8° \$\mathbf{m} 55'26 8° \$\mathbf{m} 27'32 8° \$\mathbf{m} 27'36 11° \$\mathbf{m} 52'34 0° \$\nall	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 23 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x' 2° x' 07'52 9° x' 25'44 6° x' 46'13 3° x' 05'11 0° x' 40'22 0° x' 31'18 30° RM 25° m 08'28 24° m 31'23	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58	8° \$\mathbf{m}\$ 53'03 13° \$\mathbf{m}\$ 03'16 24° \$\mathbf{m}\$ 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{m}\$ 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$ 17'09 22° \$\mathbf{m}\$ 33'51 19° \$\mathbf{m}\$ 59'36 16° \$\mathbf{m}\$ 50'41 14° \$\mathbf{m}\$ 10'49 13° \$\mathbf{m}\$ 57'54 8° \$\mathbf{m}\$ 55'26 8° \$\mathbf{m}\$ 27'32 8° \$\mathbf{m}\$ 27'36 11° \$\mathbf{m}\$ 52'34	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x '07'52 9° x '25'44 6° x '46'13 3° x '05'11 0° x '40'22 0° x '31'18 30° R m 25° m 33'09 25° m 08'28 24° m 31'23 27° m 57'31 0° x '	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18	8° \$\mathbf{n} 53'03 13° \$\mathbf{n} 03'16 24° \$\mathbf{n} 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{n} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 55'54 8° \$\mathbf{m} 55'26 8° \$\mathbf{m} 27'32 8° \$\mathbf{m} 27'36 11° \$\mathbf{m} 52'34 0° \$\nall	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 25 16:39	24° m 09'42 0° <u>a</u> 0° <u>a</u> 47'37 10° <u>a</u> 23'48 0° m 6° m 21'04 0° x 2° x '07'52 9° x '25'44 6° x '46'13 3° x '05'11 0° x '40'22 0° x '31'18 30° km 25° m 33'09 25° m 08'28 24° m 31'23 27° m 57'31 0° x ' 24° x '42'34	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 06 21:52	8° \$\mathbf{n} 53'03 13° \$\mathbf{n} 03'16 24° \$\mathbf{n} 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{n} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{n} 17'09 22° \$\mathbf{n} 33'51 19° \$\mathbf{n} 59'36 16° \$\mathbf{n} 50'41 14° \$\mathbf{n} 10'49 13° \$\mathbf{n} 55'26 8° \$\mathbf{n} 27'32 8° \$\mathbf{n} 27'32 8° \$\mathbf{n} 27'36 11° \$\mathbf{n} 52'34 0° \$n\$ 7° \$n 03'22	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 25 16:39 5539 Dec 28 21:27	24° № 09'42 0° 요 0° 요47'37 10° 요23'48 0° M 6° M 21'04 0° ズ 2° ズ 07'52 9° ズ 25'44 6° ズ 46'13 3° ズ 05'11 0° ズ 40'22 0° ズ 31'18 30° RM 25° M 33'09 25° M 08'28 24° M 31'23 27° M 57'31 0° ズ 24° ズ 42'34 0° ろ	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 06 21:52	8° \$\mathbf{m} 53'03 13° \$\mathbf{m} 03'16 24° \$\mathbf{m} 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 55'54 8° \$\mathbf{m} 55'54 8° \$\mathbf{m} 27'32 8° \$\mathbf{m} 27'36 11° \$\mathbf{m} 52'34 0° \$\nallor{\sigma}\$ 7° \$\nallor{\sigma} 03'22 27° \$\nallor{\sigma} 45'45	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 25 16:39 5539 Dec 28 21:27	24° № 09'42 0° 요 0° 요47'37 10° 요23'48 0° M 6° M 21'04 0° ズ 2° ズ 07'52 9° ズ 25'44 6° ズ 46'13 3° ズ 05'11 0° ズ 40'22 0° ズ 31'18 30° RM 25° M 33'09 25° M 08'28 24° M 31'23 27° M 57'31 0° ズ 24° ズ 42'34 0° ろ	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 06 21:52	8° \$\mathbf{m} 53'03 13° \$\mathbf{m} 03'16 24° \$\mathbf{m} 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 55'54 8° \$\mathbf{m} 55'54 8° \$\mathbf{m} 27'32 8° \$\mathbf{m} 27'36 11° \$\mathbf{m} 52'34 0° \$\script{\sigma}\$ 7° \$\script{\sigma} 03'22 27° \$\script{\sigma} 45'45 27° \$\script{\sigma} 48'27	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37
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	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 25 16:39 5539 Dec 28 21:27 5540 Jan 03 01:48	24° m 09'42 0° ユ 0° ユ47'37 10° ユ23'48 0° m 6° m 21'04 0° ズ 2° ズ 07'52 9° ズ 25'44 6° ズ 46'13 3° ズ 05'11 0° ズ 40'22 0° ズ 31'18 30° R m 25° m 33'09 25° m 08'28 24° m 31'23 27° m 57'31 0° ズ 24° ズ 42'34 0° 云 8° 云 28'03	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 18 17:27	8° \$\mathbf{m} 53'03 13° \$\mathbf{m} 03'16 24° \$\mathbf{m} 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega} 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m} 17'09 22° \$\mathbf{m} 33'51 19° \$\mathbf{m} 59'36 16° \$\mathbf{m} 50'41 14° \$\mathbf{m} 10'49 13° \$\mathbf{m} 57'54 8° \$\mathbf{m} 55'26 8° \$\mathbf{m} 27'32 8° \$\mathbf{m} 27'32 8° \$\mathbf{m} 27'36 11° \$\mathbf{m} 52'34 0° \$\nalloop \text{*7}\$ 7° \$\nalloop 303'22 27° \$\nalloop 45'45'45 27° \$\nalloop 415'51	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37
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 superior conj	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Nov 27 01:09 5539 Nov 09 10:04 5539 Nov 20 04:02 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 25 16:39 5539 Dec 28 21:27 5540 Jan 08 20:32	24° m 09'42 0° ユ 0° ユ47'37 10° ユ23'48 0° m 6° m 21'04 0° ズ 2° ズ 07'52 9° ズ 25'44 6° ズ 46'13 3° ズ 05'11 0° ズ 40'22 0° ズ 31'18 30° R m 25° m 33'09 25° m 08'28 24° m 31'23 27° m 57'31 0° ズ 24° ズ 42'34 0° ℧ 8° ℧ 28'03	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 04 21:52 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 18 17:27 5540 Dec 19 11:10	8° \$\mu 53'03 13° \$\mu 03'16 24° \$\mu 31'44 0° \$\Oldsymbol{\Oldsym	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37
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 superior conj minimum elong	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Nov 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 25 16:39 5539 Dec 28 21:27 5540 Jan 08 20:32 5540 Jan 08 20:32 5540 Jan 08 15:41	24° № 09'42 0° - 0° - 0° - 0° - 0° - 0° - 10° - 10° - 10° - 23'48 0° M 6° M 21'04 0° - 2° - 2° - 25'44 6° - 3'46'13 3° - 3'05'11 0° - 3'1'18 30° RM 25° M 33'09 25° M 08'28 24° M 31'23 27° M 57'31 0° - 24° - 24° - 3'42'34 0° - 3'8 - 3'28'03 17° - 3'44'37 17° - 3'25'22	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 04 21:52 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 19 11:10 5540 Dec 19 11:10 5540 Dec 19 22:50	8° \$\mathbf{m}\$ 53'03 13° \$\mathbf{m}\$ 03'16 24° \$\mathbf{m}\$ 31'44 0° \$\mathbf{n}\$ 25° \$\mathbf{n}\$ 57'20 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$ 17'09 22° \$\mathbf{m}\$ 33'51 19° \$\mathbf{m}\$ 59'36 16° \$\mathbf{m}\$ 50'41 14° \$\mathbf{m}\$ 10'49 13° \$\mathbf{m}\$ 57'54 8° \$\mathbf{m}\$ 55'26 8° \$\mathbf{m}\$ 57'36 11° \$\mathbf{m}\$ 52'34 0° \$\mathbf{n}\$ 7° \$\mathbf{n}\$ 03'22 27° \$\mathbf{n}\$ 48'27 27° \$\mathbf{n}\$ 11'51 28° \$\mathbf{n}\$ 24'59 29° \$\mathbf{n}\$ 13'00	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37
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 superior conj minimum elong	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Nov 27 01:09 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 25 16:39 5539 Dec 28 21:27 5540 Jan 08 20:32 5540 Jan 08 15:41 5540 Jan 08 15:41 5540 Jan 12 13:38	24° m 09'42 0° - 0° - 0° - 0° - 0° - 0° - 0° - 10° -	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03	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	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 02 21:52 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 19 11:10 5540 Dec 19 22:50 5540 Dec 20 10:17	8° \$\mu 53'03 13° \$\mu 03'16 24° \$\mu 31'44 0° \$\oldsymbol{\Omega}\$ 25° \$\oldsymbol{\Omega}\$57'20 0° \$\mu 15° \$\mu 17'09 22° \$\mu 33'51 19° \$\mu 59'36 16° \$\mu 50'41 14° \$\mu 10'49 13° \$\mu 57'54 8° \$\mu 55'26 8° \$\mu 27'32 8° \$\mu 27'36 11° \$\mu 52'34 0° \$\nu 7' \$\nu 03'22 27° \$\nu 45'45 27° \$\nu 48'27 27° \$\nu 11'51 28° \$\nu 24'59 29° \$\nu 13'00 0° \$\oldsymbol{\Omega}\$	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37 0°06'15 0°06'15
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 superior conj minimum elong max. Earth dist.	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Nov 27 01:09 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 23:00 5539 Nov 22 12:36 5539 Nov 22 12:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 28 21:27 5540 Jan 08 20:32 5540 Jan 08 15:41 5540 Jan 12 13:38 5540 Jan 16 15:21	24° m 09'42 0° - 0° - 0° - 0° - 0° - 0° - 0° - 10° -	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03	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.	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 02 21:52 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 19 11:10 5540 Dec 19 22:50 5540 Dec 20 10:17 5540 Dec 25 07:27	8° \mu 53'03 13° \mu 03'16 24° \mu 31'44 0° \Lap{25° \Lap{257'20}} 0° \mu 15° \mu 17'09 22° \mu 33'51 19° \mu 59'36 16° \mu 50'41 14° \mu 10'49 13° \mu 57'54 8° \mu 57'54 8° \mu 27'32 8° \mu 27'36 11° \mu 52'34 0° \neq \nu 7° \neq 03'22 27° \neq \nu 45'45 27° \neq \nu 11'51 28° \nu 24'59 29° \nu 13'00 0° \neq \nu 7° \neq 554'15	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37 0°06'15 0°06'15
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 superior conj minimum elong max. Earth dist.	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Nov 27 01:09 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 13:00 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 28 21:27 5540 Jan 08 20:32 5540 Jan 08 20:32 5540 Jan 08 15:41 5540 Jan 12 13:38 5540 Jan 16 15:21 5540 Jan 25 02:52	24° № 09'42 0° - 0° - 0° - 0° - 0° - 0° - 0° - 0° -	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03	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.	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 04 21:25 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 02 21:52 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 19 11:10 5540 Dec 20 10:17 5540 Dec 25 07:27 5541 Jan 03 13:07	8° \mu 53'03 13° \mu 03'16 24° \mu 31'44 0° \Lap{25° \Lap{257'20}} 0° \mu 15° \mu 17'09 22° \mu 33'51 19° \mu 59'36 16° \mu 50'41 14° \mu 10'49 13° \mu 57'54 8° \mu 27'32 8° \mu 27'32 8° \mu 27'36 11° \mu 52'34 0° \neq \neq \neq \neq \neq \neq \neq \neq	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37 0°06'15 0°06'15
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 superior conj minimum elong max. Earth dist. evening rise	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 13:00 5539 Nov 22 12:36 5539 Nov 27 22:36 5539 Nov 28 17:23 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 25 16:39 5539 Dec 28 21:27 5540 Jan 08 20:32 5540 Jan 08 15:41 5540 Jan 12 13:38 5540 Jan 16 15:21 5540 Jan 25 02:52 5540 Feb 05 02:55	24° №09'42 0° 9 0° 947'37 10° 923'48 0° 11 0° 121'04 0° 12 2° 125'44 6° 13 3° 125'11 0° 140'22 0° 131'18 30° 811 25° 113'09 25° 1108'28 24° 113'23 27° 1157'31 0° 12 24° 142'34 0° 15 8° 1528'03 17° 1544'37 17° 1525'22 23° 1537'04 0° 12 13° 120'27 0° 14	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03 -0°39'37 0°38'57 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 superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist.	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 02 21:52 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 19 11:10 5540 Dec 19 12:50 5540 Dec 20 10:17 5540 Dec 25 07:27 5541 Jan 03 13:07 5541 Jan 08 12:44	8° \mu 53'03 13° \mu 03'16 24° \mu 31'44 0° \mu 25° \mu 57'20 0° \mu 15° \mu 17'09 22° \mu 33'51 19° \mu 59'36 16° \mu 50'41 14° \mu 10'49 13° \mu 57'54 8° \mu 57'54 8° \mu 27'32 8° \mu 27'32 8° \mu 27'36 11° \mu 52'34 0° \ne\ne\ne\ne\ne\ne\ne\ne\ne\ne\ne\ne\ne\	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37 0°06'15 0°06'10
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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	5539 Sep 14 12:28 5539 Sep 17 06:51 5539 Sep 17 16:00 5539 Sep 22 09:52 5539 Oct 03 04:35 5539 Oct 07 02:31 5539 Oct 24 22:01 5539 Oct 27 01:09 5539 Nov 09 10:04 5539 Nov 16 07:01 5539 Nov 20 04:02 5539 Nov 22 08:22 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 22 23:00 5539 Nov 22 11:38 5539 Nov 22 11:38 5539 Nov 25 16:39 5539 Dec 01 08:53 5539 Dec 07 19:59 5539 Dec 09 16:42 5539 Dec 25 16:39 5539 Dec 28 21:27 5540 Jan 08 20:32 5540 Jan 08 20:32 5540 Jan 12 13:38 5540 Jan 12 13:38 5540 Jan 15:21 5540 Jan 25 02:52 5540 Feb 05 02:55 5540 Feb 07 20:25	24° № 09'42 0° ♀ 47'37 10° ♀ 23'48 0° № 6° № 21'04 0° ※ 2° ※ 07'52 9° ※ 25'44 6° ※ 46'13 3° ※ 705'11 0° ※ 40'22 0° ※ 31'18 30° № 123 27° № 57'31 0° ※ 24° ※ 42'34 0° ※ 8° ♂ 28'03 17° ♂ 44'37 17° ♂ 25'22 23° ♂ 37'04 0° ※ 13° ≈ 09'27 0° 升 4° 升 05'09	1°40'53 1.33965 AU 27°11'19 0.65018 AU -1°52'27 1°51'06 18°02'03 -0°39'37 0°38'57 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 morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	5540 Aug 28 20:06 5540 Aug 30 18:15 5540 Sep 05 05:17 5540 Sep 07 23:04 5540 Sep 22 23:32 5540 Sep 25 18:03 5540 Oct 08 12:10 5540 Oct 22 04:23 5540 Oct 29 07:51 5540 Nov 02 00:06 5540 Nov 04 16:15 5540 Nov 11 12:36 5540 Nov 13 22:32 5540 Nov 13 19:39 5540 Nov 20 12:58 5540 Dec 02 20:18 5540 Dec 02 20:18 5540 Dec 19 01:39 5540 Dec 19 02:18 5540 Dec 19 02:18 5540 Dec 19 02:18 5540 Dec 19 02:18 5540 Dec 19 11:10 5540 Dec 20 10:17 5540 Dec 25 07:27 5541 Jan 03 13:07 5541 Jan 08 12:44 5541 Jan 29 17:17	8° \mu 53'03 13° \mu 03'16 24° \mu 31'44 0° \Lap{25° \Lap{257'20}} 0° \mu 15° \mu 17'09 22° \mu 33'51 19° \mu 59'36 16° \mu 50'41 14° \mu 10'49 13° \mu 57'54 8° \mu 27'32 8° \mu 27'36 11° \mu 52'34 0° \n\\ 7° \n' 03'22 27° \n' 45'45 27° \n' 11'51 28° \n' 24'59 29° \n' 13'00 0° \to	1°32'31 1.32844 AU 27°27'25 0.63372 AU -2°56'42 2°54'51 17°49'37 0°06'15 0°06'10

ratragrada	5541 Feb 10 02:18	8°) 17'37		ratragrada	5542 Jan 24 23:18	22° ≈ 33'55	
retrograde				retrograde			
evening set	5541 Feb 14 03:27	6°) (44'15	20.4711.0	asc. node	5542 Jan 27 15:56	21°≈55'39	
inferior conj	5541 Feb 19 11:35	0°) (32′56		evening set	5542 Jan 29 11:10	20°≈45'14	2012125
minimum elong	5541 Feb 19 09:15	0°) 40′58	2°46'44	inferior conj	5542 Feb 03 19:24	14° ≈ 24'59	
	5541 Feb 19 21:09	30°R≈		minimum elong	5542 Feb 03 17:04	14° ≈ 33'07	2°11'40
min. Earth dist.	5541 Feb 19 23:05	29° ≈ 53'19	0.67775 AU	min. Earth dist.	5542 Feb 03 18:53	14° ≈ 26'46	0.68121 AU
morning rise	5541 Feb 24 14:52	24°≈19'14		morning rise	5542 Feb 08 22:47	8° ≈ 14'09	
direct	5541 Mar 02 00:51	21° ≈ 55′29		direct	5542 Feb 13 18:14	6°≈11'44	
morning max el	5541 Mar 12 21:42	28° ≈ 24'39	23°54'43	morning max el	5542 Feb 23 08:19	11° ≈ 50'46	22°25'39
	5541 Mar 14 10:10	0° ℋ		desc. node	5542 Mar 04 19:06	23° ≈ 10′17	
desc. node	5541 Mar 17 22:06	4° ₩ 00'31			5542 Mar 09 18:03	0° ∀	
	5541 Apr 05 12:14	0 ° Υ		morning set	5542 Mar 29 01:04	29° ∺ 26'30	
morning set	5541 Apr 17 10:37	19° Ƴ 25'10			5542 Mar 29 09:16	0 ° Υ	
max. Earth dist.	5541 Apr 21 05:45	26° Ƴ 03'01	1.38420 AU	max. Earth dist.	5542 Apr 03 02:01	7° Ƴ 48'57	1.40623 AU
	5541 Apr 23 10:34	0°B					
	•			superior conj	5542 Apr 10 21:19	21° Y 25'56	-1°54'08
superior conj	5541 Apr 28 12:30	9° 8 25'26	-1°30'37	minimum elong	5542 Apr 11 02:12	21° Y 47'53	
minimum elong	5541 Apr 28 17:21	9° 8 48'29	1°29'58	Č	5542 Apr 15 13:53	0°8	
evening rise	5541 May 07 13:00	26° 8 57'06	, -,	evening rise	5542 Apr 21 00:58	10° 8 13'48	
asc. node	5541 May 08 18:10	29° 8 19'36		asc. node	5542 Apr 25 15:12	18° 8 46'35	
ase. Houe	5541 May 09 02:29	0°II		use. Houe	5542 May 02 07:26	0°Ⅱ	
evening max el	5541 May 23 22:27	23° II 29'56	18°54'15	evening max el	5542 May 07 04:29	6° П 03'50	18°20'38
Č	5541 Jun 01 09:30	27° I I39'05	16 34 13	•	•	9° П 41'46	16 20 36
retrograde				retrograde	5542 May 14 11:35		
evening set	5541 Jun 03 10:49	27° I I25'21	0040140	evening set	5542 May 16 19:58	9° Ⅱ 20'07	200.412.0
inferior conj	5541 Jun 11 13:25	23° Ⅱ 08'11	0°40'48	inferior conj	5542 May 24 02:58	4° ∏ 42'58	
minimum elong	5541 Jun 11 15:00	23° Ⅲ 05′22	0°40'13	minimum elong	5542 May 24 06:23	4° ∏ 35'51	2°03'20
desc. node	5541 Jun 13 21:16	21° Ⅲ 28'32		min. Earth dist.	5542 May 27 13:25	1° ∏ 52'21	0.58811 AU
min. Earth dist.	5541 Jun 14 16:35	20° ∏ 55'05	0.56805 AU		5542 May 30 03:29	30° ₹ 8	
morning rise	5541 Jun 19 15:49	18° Ⅱ 05'56		morning rise	5542 May 31 13:42	29° 8 09'06	
direct	5541 Jun 24 23:57	16° Ⅱ 57'34		desc. node	5542 May 31 18:19	29° 8 02'57	
morning max el	5541 Jul 09 07:36	24° Ⅱ 23'27	26°02'57	direct	5542 Jun 06 17:53	27° 8 27'16	
	5541 Jul 14 10:58	0 \circ			5542 Jun 14 15:32	Π $^{\circ}0$	
	5541 Aug 02 03:19	$0 {\circ} \Omega$		morning max el	5542 Jun 21 03:13	5° Ⅱ 13'45	27°13'39
asc. node	5541 Aug 04 17:28	5° Ω 14'41			5542 Jul 09 10:21	0 \circ \odot	
morning set	5541 Aug 06 10:36	8° Ω 50'06		morning set	5542 Jul 21 19:24	23° © 30'16	
				asc. node	5542 Jul 22 14:29	25° © 10'55	
superior conj	5541 Aug 13 09:03	23° Ω 57′01	1°19'15		5542 Jul 24 20:22	$0 {\circ} \Omega$	
minimum elong	5541 Aug 13 06:47	23° Ω 44'31	1°18'56				
max. Earth dist.	5541 Aug 14 02:30	25° Ω 33'10	1.32154 AU	superior conj	5542 Jul 28 20:53	8° Ω 50′00	1°01'12
	5541 Aug 16 03:11	0° m/		minimum elong	5542 Jul 28 18:41	8° Ω 37'51	1°00'48
evening rise	5541 Aug 20 08:17	9° m 00'18		max. Earth dist.	5542 Jul 28 13:29	8° Ω 09'07	1.31889 AU
	5541 Aug 31 07:35	0∘ ⊽		evening rise	5542 Aug 04 16:17	23° Ω 41'35	
desc. node	5541 Sep 09 20:32	0 — 14° Ω 54'45		evening rise	5542 Aug 07 17:10	0° m	
evening max el	5541 Sep 20 19:06	27° ⊆ 50'37	27°11'49		5542 Aug 25 10:25	0° ت مالا	
evening max er	5541 Sep 23 05:45	0°M	2/ 114)	desc. node	5542 Aug 27 17:32	o — 2° ⊆ 57'37	
retrograde	5541 Oct 04 15:43	5°M03'26		evening max el	5542 Sep 02 19:41	9° £ 38'30	26°22'49
evening set	5541 Oct 11 18:13	2°M46'14		=	5542 Sep 16 18:34		20 22 49
evening set				retrograde	1	16° Ω 46'31	
: E 4 E 4	5541 Oct 15 10:21	30°R <u>Ω</u>	0.61447.411	evening set	5542 Sep 23 09:24	14° £ 58'37	0.50277.411
min. Earth dist.	5541 Oct 15 09:42	0°M01'21	0.61447 AU	min. Earth dist.	5542 Sep 27 09:06	12° Ω 23'47	0.59377 AU
inferior conj	5541 Oct 18 11:34	27° £ 18′23		inferior conj	5542 Sep 30 14:51	9° £ 54'10	
minimum elong	5541 Oct 18 17:57	27° £ 04'17	3°56'32	minimum elong	5542 Sep 30 20:32	9° Ω 43'11	4°48'43
morning rise	5541 Oct 25 19:40	22° £ 22'39		morning rise	5542 Oct 08 09:51	5° Ω 20'33	
direct	5541 Oct 28 02:57	22° £ 00'34		direct	5542 Oct 10 18:04	5° ≏ 01'18	
asc. node	5541 Oct 31 16:43	22° £ 55'54		morning max el	5542 Oct 18 14:07	8° 亞 50'05	18°20'59
morning max el	5541 Nov 04 04:08	25° ≏ 33'03	17°55'27	asc. node	5542 Oct 18 13:45	8° ≏ 49'11	
	5541 Nov 07 21:57	0°M₊			5542 Nov 01 07:05	0°M	
morning set	5541 Nov 19 22:15	20°M₁8′31		morning set	5542 Nov 03 12:16	4° M 12'30	
	5541 Nov 25 06:15	0° ∡					
				superior conj	5542 Nov 12 16:12	21°M29'41	1°13'34
superior conj	5541 Nov 30 09:08	9° ∡ 103′28	0°45'00	minimum elong	5542 Nov 12 19:57	21°M46'52	1°13'09
minimum elong	5541 Nov 30 12:38	9° ∡ 18'40	0°44'32	-	5542 Nov 17 09:46	0°⊀	
desc. node	5541 Dec 06 19:49	19° ₹ 59'52		max. Earth dist.	5542 Nov 20 05:06	4° ₹ 52'25	1.40704 AU
max. Earth dist.	5541 Dec 07 20:40	21° ₹ '42'28	1.42644 AU	desc. node	5542 Nov 23 16:49	10° ∡ ¹45'38	
	5541 Dec 12 23:46	0°ರ		evening rise	5542 Nov 24 18:28	12° ∡ ³31'40	
evening rise	5541 Dec 14 06:14	2° る 00'38		<i>U</i> -	5542 Dec 05 21:21	0°る	
<i>5</i>							
	5542 Jan 02 00:32	0° ≈			5542 Dec 28 13:33	0° ≈	
evening max el	5542 Jan 02 00:32 5542 Jan 15 12:45	0° ≈ 16° ≈ 57'10	22°06'04	evening max el	5542 Dec 28 13:33 5542 Dec 29 04:02	0°≈ 0°≈36'47	23°25'40

retrograde	5543 Jan 08 17:28	6° ≈ 51'16		evening set	5543 Dec 28 21:05	18° る 46'08	
evening set	5543 Jan 13 17:34	4° ≈ 47'07		asc. node	5544 Jan 01 10:01	14° る 56'24	
asc. node	5543 Jan 14 12:58	4°≈03'02		min. Earth dist.	5544 Jan 02 11:06	13° る 35'10	0.67690 AU
	5543 Jan 17 22:37	30°R₹		inferior conj	5544 Jan 03 09:50	12° る 19'48	0°40'07
min. Earth dist.	5543 Jan 18 15:40	29° ろ 02'00	0.68089 AU	minimum elong	5544 Jan 03 08:53	12° る 22'59	0°39'45
inferior conj	5543 Jan 19 03:25	28° ට 21'41	1°29'43	morning rise	5544 Jan 08 20:49	6° る 20'05	
minimum elong	5543 Jan 19 01:32	28° පි 28'08	1°29'02	direct	5544 Jan 12 13:13	5° る 02'12	
morning rise	5543 Jan 24 09:26	22° る 15'26		morning max el	5544 Jan 20 00:30	9° ට 14'51	19°52'20
direct	5543 Jan 28 14:49	20°る35'49			5544 Feb 04 13:36	0° ≈	
morning max el	5543 Feb 06 00:28	25° る 26'49	21°03'00	desc. node	5544 Feb 06 13:07	2° ≈ 58'02	
C	5543 Feb 10 02:14	0° ≈		morning set	5544 Feb 15 08:11	16° ≈ 22'43	
desc. node	5543 Feb 19 16:07	12° ≈ 52'31			5544 Feb 24 01:51	0° ₩	
	5543 Mar 03 04:54	0° ∀		max. Earth dist.	5544 Feb 26 15:41	4° ₩ 05'05	1.44204 AU
morning set	5543 Mar 08 11:48	8° ℋ 11'16					
max. Earth dist.	5543 Mar 16 04:54	20° ∺ 31'05	1.42642 AU	superior conj	5544 Mar 02 17:47	12° ¥ 15'49	-2°06'15
	5543 Mar 21 22:02	0° Y		minimum elong	5544 Mar 02 14:02	12° ¥ 00′36	2°06'08
				-	5544 Mar 13 10:07	0° Y	
superior conj	5543 Mar 23 08:15	2° Y 25'00	-2°07'54	evening rise	5544 Mar 16 01:40	4° Υ ′30'22	
minimum elong	5543 Mar 23 10:25	2° Y '34'13	2°07'52	asc. node	5544 Mar 29 09:15	26° Ƴ '22'54	
evening rise	5543 Apr 03 22:41	22° Y '47'52			5544 Apr 01 02:07	0° ႘	
	5543 Apr 07 23:17	0°8		evening max el	5544 Apr 03 04:35	2° 8 20'47	18°12'08
asc. node	5543 Apr 12 12:13	7° 8 50'11		retrograde	5544 Apr 09 14:19	5° 8 44'19	
evening max el	5543 Apr 20 15:39	19° 8 03'48	18°06'49	evening set	5544 Apr 12 11:59	5° 8 00'19	
retrograde	5543 Apr 27 06:40	22° 8 26'59		C	5544 Apr 18 07:48	30° ₹ Υ	
evening set	5543 Apr 29 21:58	21° 8 54'52		inferior conj	5544 Apr 18 14:02	29° Y '43'01	3°24'32
inferior conj	5543 May 06 12:28	16° 8 57'02	2°57'22	minimum elong	5544 Apr 18 15:25	29° Y '39'13	3°24'24
minimum elong	5543 May 06 15:21	16° 8 50'04	2°56'47	min. Earth dist.	5544 Apr 21 05:48	26° Ƴ 49'38	0.63135 AU
min. Earth dist.	5543 May 09 17:08	13° 8 53'16	0.61023 AU	morning rise	5544 Apr 24 17:40	23° Y ′35'28	
morning rise	5543 May 13 06:37	11° 8 01'44		direct	5544 May 01 13:53	20° Ƴ 57'35	
desc. node	5543 May 18 15:21	8° 8 52'42		desc. node	5544 May 04 12:22	21° Y ′23'41	
direct	5543 May 19 23:18	8° 8 47'30		morning max el	5544 May 15 12:41	28° Y ′57'47	27°47'45
morning max el	5543 Jun 03 05:17	16° 8 44'42	27°49'35	C	5544 May 16 12:58	0° ႘	
C	5543 Jun 14 03:38	$\Pi^{\circ}0$			5544 Jun 07 00:43	$\Pi^{\circ}0$	
	5543 Jul 02 01:09	0°ಅ		morning set	5544 Jun 18 22:24	22° Ⅲ 00′01	
morning set	5543 Jul 06 00:03	7° © 55'41		S	5544 Jun 22 19:50	0∘ ©	
asc. node	5543 Jul 09 11:29	15° © 14'48		max. Earth dist.	5544 Jun 24 04:45	2° © 54'00	1.32656 AU
max. Earth dist.	5543 Jul 11 23:33	20°5940'07	1.32055 AU	asc. node	5544 Jun 25 08:30	5° © 22'12	
superior conj	5543 Jul 13 07:41	23° © 36'16	0°39'05	superior conj	5544 Jun 26 15:43	8°910'18	0°13'29
minimum elong	5543 Jul 13 06:02	23° © 27'11	0°38'43	minimum elong	5544 Jun 26 15:05	8°906'49	0°13'18
C	5543 Jul 16 05:27	$0^{\circ}\Omega$		behind sun begin	5544 Jun 26 12:09	7° © 51'00	
evening rise	5543 Jul 20 03:10	8° Ω 28'33		behind sun end	5544 Jun 26 18:00	8°522'38	
C	5543 Jul 31 05:20	0° m)		evening rise	5544 Jul 03 15:00	23° © 15'02	
desc. node	5543 Aug 14 14:34	19° m 43'24		C	5544 Jul 06 20:45	$0^{\circ}\Omega$	
evening max el	5543 Aug 15 12:39	20° m 37'39	25°04'32		5544 Jul 25 23:53	0° m)	
retrograde	5543 Aug 29 10:38	27° mp 39'36		evening max el	5544 Jul 27 01:00	1° Mp 02'53	23°29'06
evening set	5543 Sep 04 00:46	26° Mp 28'33		desc. node	5544 Jul 31 11:36	4° Mp 42'46	
min. Earth dist.	5543 Sep 09 00:09	23° Mp 45'43	0.57387 AU	retrograde	5544 Aug 09 14:32	7° m 50'59	
inferior conj	5543 Sep 11 22:50	21° m 47'45	-5°18'23	evening set	5544 Aug 13 17:17	7° m 13'52	
minimum elong	5543 Sep 12 00:34	21°Mp44'51	5°18'18	min. Earth dist.	5544 Aug 20 10:36	4° ™ 05'47	0.55782 AU
morning rise	5543 Sep 20 02:38	17° Mp 36'49		inferior conj	5544 Aug 22 10:44	2° m 54'29	-5°07'31
direct	5543 Sep 22 15:43	17° m) 17'56		minimum elong	5544 Aug 22 05:54	3° Mp 01'40	5°06'59
morning max el	5543 Oct 01 15:26	21° mp 32'54	19°07'49	-	5544 Aug 27 21:52	30°R Ω	
asc. node	5543 Oct 05 10:46	25° m 51'54		morning rise	5544 Aug 30 20:56	29° Ω 01′10	
	5543 Oct 08 07:50	0∘ <mark>⊽</mark>		direct	5544 Sep 02 17:54	28° Ω 40'55	
morning set	5543 Oct 18 11:36	18° ≏ 32'23			5544 Sep 08 05:20	0° m/y	
-	5543 Oct 24 06:14	0° M ₊		morning max el	5544 Sep 13 05:23	3° m 33'19	20°16'39
				asc. node	5544 Sep 21 07:48	13° m) 49'23	
superior conj	5543 Oct 26 17:30	4°M48'44	1°31'58		5544 Sep 30 03:48	0∘ ⊽	
minimum elong	5543 Oct 26 20:08		1°31'46	morning set	5544 Oct 01 17:10	3° ჲ 09'29	
max. Earth dist.	5543 Nov 02 10:32	17°M21'37	1.38591 AU	5			
evening rise	5543 Nov 06 05:30	24°M04'09		superior conj	5544 Oct 09 08:03	18° ≏ 46'31	1°41'20
		0° √		minimum elong	5544 Oct 09 09:09	18° ⊆ 52'03	1°41'18
	3343 NOV U9 17:UN						
desc. node	5543 Nov 09 17:08 5543 Nov 10 13:50			_	5544 Oct 14 16:57	29° ₽ 20'55	1.36554 AU
desc. node	5543 Nov 10 13:50	1° ∡ ¹26′00		max. Earth dist.	5544 Oct 14 16:57 5544 Oct 15 01:08	29° £ 20'55 0° ™	1.36554 AU
	5543 Nov 10 13:50 5543 Nov 29 15:38	1°♂26'00 0°♂	24°44'10	max. Earth dist.	5544 Oct 15 01:08	0°M	1.36554 AU
desc. node evening max el retrograde	5543 Nov 10 13:50	1° ∡ ¹26′00	24°44'10	_			1.36554 AU

	5544 Nov 01 12:51	0° ∡ 7		minimum elong	5545 Sep 23 07:33	3° ≏ 09'14	1°43'00
evening max el	5544 Nov 23 05:46	28° × ⁷ 03'45	25°54'35	max. Earth dist.	5545 Sep 27 05:28	11° ⊆ 13'10	1.34796 AU
	5544 Nov 25 08:06	0°ਰ		evening rise	5545 Oct 01 14:20	19° £ 49'51	
retrograde	5544 Dec 05 17:12	5° る 10'18		8	5545 Oct 07 02:28	0°M	
evening set	5544 Dec 11 20:03	2° ⋜ 39'04		desc. node	5545 Oct 14 07:54	12°M12'06	
C	5544 Dec 14 11:46	30°₽ ⋌ ¹			5545 Oct 26 13:17	0° ∡ ¹	
min. Earth dist.	5544 Dec 16 02:53	28° ₹ 02'58	0.66928 AU	evening max el	5545 Nov 05 18:32	11° ∡ °43′01	26°49'36
inferior conj	5544 Dec 17 12:50	26° х 16′26	-0°15'30	retrograde	5545 Nov 18 21:30	19° ₰ 00'10	
minimum elong	5544 Dec 17 13:14	26° ∡ 15′09	0°15'18	evening set	5545 Nov 25 12:31	16° ≯ 21'33	
transit middle	5544 Dec 17 13:14	26° ∡ 15′09	0°15'18	min. Earth dist.	5545 Nov 29 12:50	12° ∡ ′20′38	0.65808 AU
transit begin	5544 Dec 17 12:20	26° ∡ 17'58		inferior conj	5545 Dec 01 10:23	10° ₹ 07'50	-1°16'02
transit end	5544 Dec 17 14:08	26° ∡ 12'19		minimum elong	5545 Dec 01 12:33	10° ≯ 01'32	1°15'06
asc. node	5544 Dec 18 07:03	25° ∡ 19'34		asc. node	5545 Dec 05 04:06	6° ₰ 09'37	
morning rise	5544 Dec 23 06:55	20° х 25′31		morning rise	5545 Dec 07 13:29	4° ≯ 28'10	
direct	5544 Dec 26 11:57	19° х 26′33		direct	5545 Dec 10 09:10	3° х¹ 44′21	
morning max el	5545 Jan 02 08:14	23° х 12′50	18°56'35	morning max el	5545 Dec 16 21:46	7° ∡ 15'24	18°17'05
	5545 Jan 07 23:11	0°₹			5546 Jan 01 16:04	0°ಕ	
desc. node	5545 Jan 23 10:09	23° る 20'29		morning set	5546 Jan 05 01:38	5° る 29'40	
morning set	5545 Jan 24 15:07	25° る 13'35		desc. node	5546 Jan 10 07:10	13° る 55'04	
	5545 Jan 27 16:29	0° ≈					
max. Earth dist.	5545 Feb 08 08:02	18° ≈ 13'30	1.45134 AU	superior conj	5546 Jan 20 08:21	29°₹51'11	
				minimum elong	5546 Jan 20 00:25	29° ට 20'01	1°05'15
superior conj	5545 Feb 10 04:56	21°≈10'07		F 4 F	5546 Jan 20 10:36	0°≈	1 1500 6 1 7 7
minimum elong	5545 Feb 09 19:55	20°≈34'37	1°44'12	max. Earth dist.	5546 Jan 22 03:03	2°≈38'47	1.45336 AU
	5545 Feb 15 18:47	0° ∀		evening rise	5546 Feb 05 12:01	25°≈07'18	
evening rise	5545 Feb 25 06:13	15° ¥ 15'25 0° Υ		4 41 711	5546 Feb 08 14:51	0°) (40/22	0.0
1-	5545 Mar 06 08:28	0°γ¹ 14° Υ 14'37		greatest brilliancy	5546 Feb 16 18:44	12°) 40′23 29°) 19′22	-0.8m
asc. node	5545 Mar 16 06:18	14° Y 14'37	18°35'51	evening max el	5546 Mar 01 01:05	29° π 1922 0° Υ	19°16'51
evening max el	5545 Mar 17 16:27 5545 Mar 24 06:05	13 γ 47 13 19° Υ 24'04	18 33 31	asc. node	5546 Mar 01 17:33 5546 Mar 03 03:21	0 γ 1° Υ 13'59	
retrograde evening set	5545 Mar 27 10:09	19 Y 24 04 18° Y 27'19		retrograde	5546 Mar 08 02:24	3° Υ 20'20	
inferior conj	5545 Apr 02 03:33	12° Y 52'21	3°31'41	evening set	5546 Mar 11 13:39	2°Υ10'04	
minimum elong	5545 Apr 02 03:23	12° Y 52 21	3°31'41	evening set	5546 Mar 14 00:39	2 1 10 04 30°R) €	
min. Earth dist.	5545 Apr 04 03:59	10° Υ 26'47	0.64958 AU	inferior conj	5546 Mar 17 01:33	26° ₩ 19'19	3°23'32
morning rise	5545 Apr 07 19:59	6° Υ 38'56	0.04730 AC	minimum elong	5546 Mar 17 00:11	26°) (1313	3°23'23
direct	5545 Apr 14 12:16	3° Υ 50'01		min. Earth dist.	5546 Mar 18 10:44	24° X 32'04	0.66394 AU
desc. node	5545 Apr 21 09:25	6° Υ 13'07		morning rise	5546 Mar 22 10:21	20°) 04'06	0.0059 1110
morning max el	5545 Apr 27 22:40		27°11'09	direct	5546 Mar 28 17:20	17°) 17'04	
	5545 May 12 11:48	0°8	_,	desc. node	5546 Apr 08 06:27	22°) (48'09	
	5545 May 30 13:25	0°II		morning max el	5546 Apr 10 08:36	24°) 48′55	26°07'08
morning set	5545 Jun 02 11:33	5° Ⅱ 33'38		Č	5546 Apr 15 01:12	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	5545 Jun 07 01:05	14° Ⅱ 38'46	1.33712 AU		5546 May 05 22:47	0°8	
				morning set	5546 May 16 11:46	18° 8 26'08	
superior conj	5545 Jun 10 18:51	22° Ⅱ 24'47	-0°14'54	max. Earth dist.	5546 May 20 09:52	25° 8 52'41	1.35241 AU
minimum elong	5545 Jun 10 19:38	22° Ⅱ 28'54	0°14'46		5546 May 22 12:21	$\Pi^{\circ}0$	
behind sun begin	5545 Jun 10 17:28	22° Ⅱ 17'27					
behind sun end	5545 Jun 10 21:49	22° Ⅱ 40′22		superior conj	5546 May 25 14:42	6° Ⅱ 13'25	-0°44'50
asc. node	5545 Jun 12 05:32	25° Ⅱ 28'13		minimum elong	5546 May 25 17:12	6° Ⅱ 26′06	0°44'22
	5545 Jun 14 08:35	0ංම		asc. node	5546 May 30 02:35	15° Ⅱ 29'07	
evening rise	5545 Jun 18 01:50	7° 9 53'40		evening rise	5546 Jun 02 09:41	22° Ⅱ 18'40	
	5545 Jun 29 19:20	0 \circ Ω			5546 Jun 06 05:10	0ಂ ತಾ	
evening max el	5545 Jul 08 16:36	11° Ω 26′02	21°52'47	evening max el	5546 Jun 20 18:51	22°5518'28	20°28'33
desc. node	5545 Jul 18 08:39	17° Ω 21'00		retrograde	5546 Jul 01 20:08	27° © 43'35	
retrograde	5545 Jul 21 07:28	17° Ω 41'27		evening set	5546 Jul 03 19:55	27°533'46	
evening set	5545 Jul 24 00:33	17° Ω 24'57		desc. node	5546 Jul 05 05:41	27°515'38	
inferior conj	5545 Aug 02 07:27	13° Ω 22'20		inferior conj	5546 Jul 13 01:05	23°536'31	
minimum elong	5545 Aug 01 22:33	13° Ω 34'48		minimum elong	5546 Jul 12 18:40	23°545'50	
min. Earth dist.	5545 Aug 01 20:29	13° Ω 37'42	0.54880 AU	min. Earth dist.	5546 Jul 14 07:55	22°951'51	0.54912 AU
morning rise	5545 Aug 10 22:02	9° Ω 31'46 9° Ω 07'44		morning rise	5546 Jul 21 16:30	19°528'23	
direct	5545 Aug 26 07:18	9° 81 07′44 14° Ω 47′39	21045127	direct	5546 Jul 25 15:08	18°S54'49 25°S23'28	23027147
morning max el	5545 Aug 26 07:18		41 43 3 /	morning max el	5546 Aug 12 07:31	25°923′28 0°Ω	23 2141
asc. node	5545 Sep 06 18:40 5545 Sep 08 04:50	0°Mp 2°Mp28'31		asc. node	5546 Aug 12 07:31 5546 Aug 26 01:52	0°87 21° Ω 39'02	
morning set	5545 Sep 16 02:35	17° Mp 56'42		asc. Hout	5546 Aug 30 05:45	0° Mp	
morning set	5545 Sep 21 19:33	0° ₽		morning set	5546 Aug 31 13:56	2°Mp48'42	
	55 15 Sep 21 17.55	~ –		morning set	55 10 11ug 51 15.50	- ig-10 1∠	
superior conj	5545 Sep 23 07:53	3° ჲ 11'00	1°43'00	superior conj	5546 Sep 07 13:53	17° m 52'41	1°38'07

minimum elong	5546 Sep 07 12:28	17° m 44'59	1°38'01		5547 Aug 21 17:48	0° m	
max. Earth dist.	5546 Sep 10 02:50	23° m 18'07	1.33435 AU			•	
	5546 Sep 13 08:04	0∘ ত		superior conj	5547 Aug 22 23:43	2° Mp 44'09	1°27'35
evening rise	5546 Sep 15 04:02	3° ≏ 42'06		minimum elong	5547 Aug 22 21:37	2° m 32'40	1°27'21
	5546 Sep 29 20:53	0° M		max. Earth dist.	5547 Aug 24 08:07	5° Mp 41'21	1.32498 AU
desc. node	5546 Oct 01 04:55	2°M05'18		evening rise	5547 Aug 30 03:03	18° Mp 00'22	
evening max el	5546 Oct 19 06:50	25°M07'24	27°21'51		5547 Sep 05 05:15	0∘ ত	
	5546 Oct 25 10:29	0° ∡ ¹		desc. node	5547 Sep 18 01:56	21° Ω 26'59	
retrograde	5546 Nov 01 19:44	2° ₹ 25'48			5547 Sep 24 09:08	0°M	
evening set	5546 Nov 08 19:56	29°M47'28		evening max el	5547 Oct 01 16:44	8°M04'24	27°24'59
	5546 Nov 08 13:09	30°RM.	0.64240.477	retrograde	5547 Oct 15 11:04	15°M18'52	
min. Earth dist.	5546 Nov 12 14:42	26°M20'25	0.64349 AU	evening set	5547 Oct 22 15:08	12°M50'44	0.62504.411
inferior conj	5546 Nov 15 00:04	23°M48'01		min. Earth dist.	5547 Oct 26 06:31	9°M53'07	0.62584 AU
minimum elong	5546 Nov 15 04:11 5546 Nov 21 13:47	23°M37'05 18°M22'34	2°18'07	inferior conj	5547 Oct 29 03:04 5547 Oct 29 08:53	7°M10'31 6°M56'41	
morning rise asc. node	5546 Nov 22 01:09	18°MJ11'35		minimum elong morning rise	5547 Nov 05 04:23	2°M02'44	3 21 33
direct	5546 Nov 24 02:29	17°M49'55		direct	5547 Nov 03 04:23 5547 Nov 07 12:52	1°M37'37	
morning max el	5546 Nov 30 14:17	21°ML14'56	17°54'32	asc. node	5547 Nov 07 12:32 5547 Nov 08 22:11	1°M46'36	
morning max cr	5546 Dec 07 07:13	0°×7	17 3432	morning max el	5547 Nov 14 06:50	5°M04'49	17°49'43
morning set	5546 Dec 17 16:53	0 ^ 17° √ 10'17		morning set	5547 Nov 30 07:06	29°M57'06	17 47 43
morning sec	5546 Dec 25 08:41	0°る		morning sev	5547 Nov 30 07:45	0° ⊼	
desc. node	5546 Dec 28 04:11	4° ਰ 37'03				• •	
				superior conj	5547 Dec 11 16:14	19° ∡ ⁴45'30	0°23'49
superior conj	5546 Dec 30 23:56	9° る 11'52	-0°19'43	minimum elong	5547 Dec 11 18:29	19° ∡ 54'56	0°23'31
minimum elong	5546 Dec 30 21:38	9° ට 02'33	0°19'21	desc. node	5547 Dec 15 01:12	25° ∡ °23'15	
max. Earth dist.	5547 Jan 04 21:58	17° る 03'13	1.44803 AU		5547 Dec 17 20:49	0°ප	
	5547 Jan 13 04:45	0° ≈		max. Earth dist.	5547 Dec 18 14:26	1° る 11'21	1.43600 AU
evening rise	5547 Jan 16 01:32	4° ≈ 25'04		evening rise	5547 Dec 26 12:54	13° る 44'51	
greatest brilliancy	5547 Jan 30 18:28	26° ≈ 36′27	-0.6m		5548 Jan 06 06:28	0° ≈	
	5547 Feb 02 02:43	0°)		evening max el	5548 Jan 26 03:13	26° ≈ 29′02	21°22'17
evening max el	5547 Feb 12 04:54	12° ∺ 53'39	20°13'19		5548 Jan 30 05:24	0° ∀	
asc. node	5547 Feb 18 00:25	17° ∺ 06'16		retrograde	5548 Feb 03 22:22	1° ¥ 41'50	
retrograde	5547 Feb 20 00:31	17° ∺ 27'36		asc. node	5548 Feb 04 21:27	1°) 36′54	
evening set	5547 Feb 23 20:13	16°) €02'54		evening set	5548 Feb 08 04:00	0°) €01'53	
inferior conj	5547 Mar 01 05:08	9°) 58'31	3°03'25		5548 Feb 08 04:56	30°R≈	
minimum elong	5547 Mar 01 03:01	10°) €05'42	3°02'59	inferior conj	5548 Feb 13 11:59	23°≈46'32	
min. Earth dist.	5547 Mar 02 00:11	8° ¥ 54'00	0.67401 AU	minimum elong	5548 Feb 13 09:35	23°≈54'49	2°32'49
morning rise	5547 Mar 06 09:35	3°) 43′55		min. Earth dist.	5548 Feb 13 18:13	23°≈24'54	0.67981 AU
direct	5547 Mar 12 03:51	1° 米 09′24 8° 米 04′21	24945129	morning rise	5548 Feb 18 15:01	17°≈34'05	
morning max el desc. node	5547 Mar 23 17:18 5547 Mar 26 03:28	10°\(\frac{1}{39}\)'12	24 43 28	direct morning max el	5548 Feb 23 18:54 5548 Mar 05 02:22	15°≈19'03 21°≈26'22	2301626
desc. node	5547 Apr 09 21:25	10 χ 39 12		desc. node	5548 Mar 12 00:29	21 ≈2022 29°≈24'45	23 10 20
morning set	5547 Apr 28 18:04	0° 8 23'40		desc. Hode	5548 Mar 12 11:35	0°) €	
morning set	5547 Apr 28 12:43	0°8			5548 Apr 02 04:09	0° Υ	
max. Earth dist.	5547 May 02 08:45		1.37184 AU	morning set	5548 Apr 09 00:33	11° Υ 10'46	
				max. Earth dist.	5548 Apr 13 04:23	18° Ƴ 17'09	1.39369 AU
superior conj	5547 May 09 00:11	19° 8 28'10	-1°14'36		5548 Apr 19 17:34	0°8	
minimum elong	5547 May 09 04:21	19° 8 48'28	1°13'56		-		
	5547 May 14 07:42	$\Pi^{\circ}0$		superior conj	5548 Apr 20 19:22	1° 8 59'03	-1°41'27
asc. node	5547 May 16 23:39	5° Ⅱ 20'46		minimum elong	5548 Apr 21 00:29	2° 8 22'46	1°40'53
evening rise	5547 May 17 12:12	6° Ⅱ 23'33		evening rise	5548 Apr 30 06:30	20° 8 00'35	
	5547 May 31 00:21	0 \circ \odot		asc. node	5548 May 02 20:41	24° 8 58'19	
evening max el	5547 Jun 03 09:44	3° 9 52'57	19°22'49		5548 May 05 13:19	Π $^{\circ}0$	
retrograde	5547 Jun 12 17:24	8°526'32		evening max el	5548 May 16 11:10		18°37'26
evening set	5547 Jun 14 16:02	8° © 15'30		retrograde	5548 May 24 08:43	20° Ⅱ 01'00	
desc. node	5547 Jun 22 02:41	4°952'22		evening set	5548 May 26 13:03	19° ∏ 44'12	
inferior conj	5547 Jun 23 05:59	4°508'19		inferior conj	5548 Jun 03 07:02		1°20'08
minimum elong	5547 Jun 23 05:06	4°509'47		minimum elong	5548 Jun 03 09:45	15° Ⅱ 13'12	1°19'11
min. Earth dist.	5547 Jun 25 21:37	2°\$25'07 30°₽∏	0.55890 AU	min. Earth dist.	5548 Jun 06 15:04	12° П 46'58 11° П 50'03	0.57610 AU
morning rise	5547 Jun 30 06:57 5547 Jul 01 15:21	30° ₹Ⅱ 29° Ⅲ 27'35		desc. node	5548 Jun 07 23:43 5548 Jun 11 03:09	11°Щ50'03 10°Щ01'51	
morning rise direct	5547 Jul 06 10:50	29° П 27'35 28° П 34'59		morning rise direct	5548 Jun 11 03:09 5548 Jun 16 20:28	10°Щ01'51 8°Щ40'03	
ance	5547 Jul 12 13:24	20 H3439 0°9		morning max el	5548 Jul 01 05:32	16° Ⅱ 15'16	26°36'59
morning max el	5547 Jul 20 13:12	5° 9 42'57	25°10'21	morning max or	5548 Jul 12 10:45	0°95	20 30 37
	5547 Aug 07 02:03	0°Ω	v 		5548 Jul 29 08:00	$0^{\circ}\Omega$	
asc. node	5547 Aug 12 22:54	11° Ω 12'43		asc. node	5548 Jul 29 19:55	1° Ω 02'10	
morning set	5547 Aug 16 01:37	17° Ω 40'35		morning set	5548 Jul 30 11:56	2° Ω 26′23	
-	-			-			

superior conj minimum elong	5548 Aug 06 11:18 5548 Aug 06 09:00	17° Ω 37'48 17° Ω 25'07	1°12'08 1°11'45	max. Earth dist.	5549 Jul 20 19:59 5549 Jul 21 05:16	0° Ω 0° Ω 51'08	1.31906 AU
max. Earth dist.	5548 Aug 06 18:10	18° Ω 15'50	1.31989 AU				
	5548 Aug 12 03:12	0° m)		superior conj	5549 Jul 21 22:54	2° Ω 28'21	0°52'17
evening rise	5548 Aug 13 08:26	2°₱34'55 0°₽		minimum elong	5549 Jul 21 20:52 5549 Jul 28 17:53	2° Ω 17'11 17° Ω 18'57	0°51'53
desc. node	5548 Aug 28 02:26 5548 Sep 03 22:57	10° ₽ 03'19		evening rise	5549 Aug 03 23:44	0°m)	
evening max el	5548 Sep 12 21:14	20° £ 19'10	26°54'58	desc. node	5549 Aug 21 19:59	27° Mp 36'08	
retrograde	5548 Sep 26 18:36	27° Ω 29'19	20 3 130	dese. Hode	5549 Aug 24 00:25	0° ⊡	
evening set	5548 Oct 03 17:53	25° £ 23'06		evening max el	5549 Aug 25 18:13	1° £ 44'12	25°52'25
min. Earth dist.	5548 Oct 07 11:24	22° Ω 44'48	0.60579 AU	retrograde	5549 Sep 08 17:14	8° ≏ 50'43	
inferior conj	5548 Oct 10 15:58	20° ≏ 05'26	-4°22'00	evening set	5549 Sep 14 23:19	7° £ 17'40	
minimum elong	5548 Oct 10 22:22	19° ჲ 52'03	4°20'26	min. Earth dist.	5549 Sep 19 06:38	4° £ 41'54	0.58503 AU
morning rise	5548 Oct 18 04:53	15° ≏ 18'53		inferior conj	5549 Sep 22 11:15	2° ჲ 23'17	-5°05'37
direct	5548 Oct 20 12:16	14° ≏ 58'13		minimum elong	5549 Sep 22 15:42	2° £ 15'11	5°05'04
asc. node	5548 Oct 25 19:11	16° ≏ 52'19			5549 Sep 25 23:12	30°R Mp	
morning max el	5548 Oct 27 20:11	18° ≙ 36′04	18°03'51	morning rise	5549 Sep 30 10:22	27° m 59'54	
	5548 Nov 05 02:19	0°M		direct	5549 Oct 02 20:10	27° Mp 41'08	
morning set	5548 Nov 12 13:53	13°M30'27			5549 Oct 09 03:56	0° ⊽	10020120
	5548 Nov 21 13:17	0° ∡		morning max el asc. node	5549 Oct 11 02:55 5549 Oct 12 16:13	1° ≙ 39'29 3° ≙ 16'28	18°38'20
superior coni	5548 Nov 22 10:23	1° ∡ ³34'08	0°58'24	morning set	5549 Oct 27 08:15	27° £ 35'58	
superior conj minimum elong	5548 Nov 22 10:23	1° × 751'14	0°57'55	morning set	5549 Oct 28 13:53	0°M	
max. Earth dist.	5548 Nov 30 02:04	14°×746'05	1.41860 AU		3347 001 28 13.33	O IIG	
desc. node	5548 Nov 30 22:12	16° ₹ 09'58	1	superior conj	5549 Nov 05 01:51	14°M24'30	1°22'34
evening rise	5548 Dec 05 13:08	23° х 42′25		minimum elong	5549 Nov 05 05:14	14° M .40'18	1°22'13
Č	5548 Dec 09 12:41	8°0		max. Earth dist.	5549 Nov 12 08:29	27°M36'29	1.39804 AU
	5548 Dec 30 06:55	0° ≈			5549 Nov 13 17:30	0°⊀	
evening max el	5549 Jan 07 20:29	10° ≈ 06′05	22°39'34	evening rise	5549 Nov 16 10:55	4° ∡ ³38'44	
retrograde	5549 Jan 17 18:21	15° ≈ 59′23		desc. node	5549 Nov 17 19:13	6° ₹ 53'39	
asc. node	5549 Jan 21 18:27	14° ≈ 36′19			5549 Dec 02 16:47	℃ 0	
evening set	5549 Jan 22 11:22	14° ≈ 03'49		evening max el	5549 Dec 21 10:26	23° る 46'19	23°59'35
inferior conj	5549 Jan 27 20:06	7° ≈ 40'46	1°55'10		5549 Dec 30 12:17	0° ≈	
minimum elong	5549 Jan 27 17:54	7°≈48'23	1°54'26	retrograde	5550 Jan 01 11:06	0°≈15'47	
min. Earth dist.	5549 Jan 27 14:39	7°≈59'40	0.68157 AU		5550 Jan 03 07:50	30°Rる	
morning rise	5549 Feb 02 00:21 5549 Feb 04 14:09	1°≈31'53 30°Ŗる		evening set asc. node	5550 Jan 06 16:45 5550 Jan 08 15:29	28°る05'02 26°る08'38	
direct	5549 Feb 04 14:09 5549 Feb 06 13:39	30 KO 29° る 39'24		min. Earth dist.	5550 Jan 11 11:11	20 006 38 22° る 34'18	0.67958 AU
direct	5549 Feb 08 15:27	29 O 3924 0° ≈		inferior conj	5550 Jan 12 03:40	22 33 418 21° る 38'22	
morning max el	5549 Feb 15 15:08		21°49'20	minimum elong	5550 Jan 12 02:08	21° る 43'36	
desc. node	5549 Feb 26 21:30	18° ≈ 49'33	21 1,720	morning rise	5550 Jan 17 11:32	15° る 34'37	1 0000
	5549 Mar 06 16:47	0°) €		direct	5550 Jan 21 11:06	14° る 04'42	
morning set	5549 Mar 20 02:48	20°) 38′02		morning max el	5550 Jan 29 10:36	18° る 38'26	20°31'14
	5549 Mar 25 20:42	$0^{\circ}\mathbf{\Upsilon}$			5550 Feb 07 16:12	0° ≈	
max. Earth dist.	5549 Mar 26 03:31	0° Y 28′22	1.41521 AU	desc. node	5550 Feb 13 18:30	8° ≈ 42'24	
				morning set	5550 Feb 27 04:49	29° ≈ 00'42	
superior conj	5549 Apr 02 19:29	13° Ƴ 34'44			5550 Feb 27 20:06	0° ∀	
minimum elong	5549 Apr 02 23:38	13° Y 52'57	2°01'15	max. Earth dist.	5550 Mar 08 09:26	13° ¥ 32′16	1.43370 AU
	5549 Apr 11 21:46	0°8			5550.14 10 46	242)/24122	2000125
evening rise	5549 Apr 13 13:00	3° 8 00'57		superior conj	5550 Mar 14 19:46	24° 米 04'29 24° 米 04'17	
asc. node	5549 Apr 19 17:43	14° 8 16'30 28° 8 53'10	18°12'19	minimum elong	5550 Mar 14 19:43	24°π0417 0° Υ	2°09'26
evening max el	5549 Apr 29 19:47 5549 May 01 01:24	28 O 33 10 0° Ⅱ	16 12 19	evening rise	5550 Mar 18 08:19 5550 Mar 27 03:19	15° Υ 13'55	
retrograde	5549 May 06 18:49	2° ∏ 23'19		evening rise	5550 Apr 04 16:10	0° 8	
evening set	5549 May 09 06:05	1° П 57'33		asc. node	5550 Apr 06 14:46	3° 8 07'58	
e venning see	5549 May 12 19:57	30°R₩		evening max el	5550 Apr 13 08:03	12° 8 01'05	18°06'47
inferior conj	5549 May 16 05:34	27° 8 11'19	2°30'21	retrograde	5550 Apr 19 19:46	15° 8 22'52	
minimum elong	5549 May 16 08:57	27° 8 03'46	2°29'29	evening set	5550 Apr 22 13:43	14° 8 45'58	
min. Earth dist.	5549 May 19 14:41	24° 8 12'01	0.59741 AU	inferior conj	5550 Apr 28 22:27	9° 8 39'56	3°11'38
morning rise	5549 May 23 09:06	21° 8 26'43		minimum elong	5550 Apr 29 00:45	9° 8 34'03	3°11'17
desc. node	5549 May 25 20:45	20° 8 14'26		min. Earth dist.	5550 May 01 22:19	6° 8 37'37	0.61947 AU
direct	5549 May 29 19:26	19° 8 30'40		morning rise	5550 May 05 10:03	3° 8 38'13	
morning max el	5549 Jun 13 04:13	27° 8 23'04	27°33'38	direct	5550 May 12 05:15	1° 8 12'12	
	5549 Jun 15 16:22	0°Щ		desc. node	5550 May 12 17:46	1° 8 13'01	
	5549 Jul 06 01:54	0°©		morning max el	5550 May 26 08:54	9° 8 12'37	27°53'16
morning set	5549 Jul 14 19:13	17°501'04			5550 Jun 11 10:26	0° ∏	
asc. node	5549 Jul 16 16:58	21° © 02'16			5550 Jun 28 06:06	0ං ව	

morning set	5550 Jun 28 21:29	1° © 18'08		morning set	5551 Jun 12 16:18	15° Ⅱ 10'09	
asc. node	5550 Jul 03 14:00	11° © 08'02		max. Earth dist.	5551 Jun 17 15:11	25° Ⅱ 16′00	1.33048 AU
max. Earth dist.	5550 Jul 04 13:34	13° © 14'59	1.32251 AU		5551 Jun 19 20:58	0 \circ \odot	
				asc. node	5551 Jun 20 11:03	1° © 15'13	
superior conj	5550 Jul 06 08:46	17° © 09'51	0°28'36				
minimum elong	5550 Jul 06 07:29	17° © 02'52	0°28'18	superior conj	5551 Jun 20 15:00	1°936'20	0°01'43
	5550 Jul 12 05:54	0°Ω		minimum elong	5551 Jun 20 14:55	1°935'52	0°01'41
evening rise	5550 Jul 13 05:23 5550 Jul 28 07:41	2° Ω 05'51 0° m		behind sun begin behind sun end	5551 Jun 20 09:33 5551 Jun 20 20:16	1°507'13 2°504'34	
evening max el	5550 Aug 07 08:29	12° Mg 25'34	24°25'07	evening rise	5551 Jun 27 17:02	2 904 34 16°9549'31	
desc. node	5550 Aug 07 08:29 5550 Aug 08 17:01	13° Mp 40'28	24 2307	evening rise	5551 Jul 04 05:41	0°Ω	
retrograde	5550 Aug 21 04:44	19° m) 23'52		evening max el	5551 Jul 19 21:21	22°Ω46'04	22°47'23
evening set	5550 Aug 26 04:18	18° m) 28'32		desc. node	5551 Jul 26 14:03	27° Ω 43'47	
min. Earth dist.	5550 Aug 31 19:32	15° m 36'30	0.56629 AU	retrograde	5551 Aug 02 03:15	29° Ω 22'10	
inferior conj	5550 Sep 03 10:33	13° m 56'49	-5°19'38	evening set	5551 Aug 05 14:19	28° Ω 55'57	
minimum elong	5550 Sep 03 09:36	13° m 58'19	5°19'38	min. Earth dist.	5551 Aug 13 05:32	25° Ω 32'57	0.55293 AU
morning rise	5550 Sep 11 17:19	9° ™ 54'25		inferior conj	5551 Aug 14 14:59	24° Ω 45′03	-4°47'27
direct	5550 Sep 14 09:13	9° m 35'19		minimum elong	5551 Aug 14 07:44	24° Ω 55'28	4°46'11
morning max el	5550 Sep 23 23:44	14° Mp 05'21	19°34'30	morning rise	5551 Aug 23 03:13	20° Ω 54'53	
asc. node	5550 Sep 29 13:15	20° Mp 44'07		direct	5551 Aug 26 04:22	20° Ω 33'17	20052110
	5550 Oct 05 04:50	0∘ ʊ		morning max el	5551 Sep 06 08:21	25° Ω 45'26	20°52'19
morning set	5550 Oct 11 10:34	12° ≏ 03'52		aga mada	5551 Sep 10 06:15	0° m y 9° m y00'39	
superior conj	5550 Oct 19 09:21	28° ≏ 01'34	1036'58	asc. node morning set	5551 Sep 16 10:18 5551 Sep 25 18:02	26° m 45'49	
minimum elong	5550 Oct 19 09:21 5550 Oct 19 11:21	28° £ 11'22	1°36'50	morning set	5551 Sep 27 07:30	0° ⊽	
minimum crong	5550 Oct 20 09:31	0°M	1 3030		3331 Sep 27 07.30	· –	
max. Earth dist.	5550 Oct 25 13:17	9°M48'55	1.37694 AU	superior conj	5551 Oct 03 04:15	12° £ 11'29	1°42'54
evening rise	5550 Oct 29 07:20	16°M36'50		minimum elong	5551 Oct 03 04:43	12° ≙ 13'50	1°42'54
desc. node	5550 Nov 04 16:15	27°M30'34		max. Earth dist.	5551 Oct 07 21:57	21° ≏ 42'51	1.35763 AU
	5550 Nov 06 04:50	0° ∡ ¹		evening rise	5551 Oct 11 23:01	29° ≏ 27'31	
	5550 Nov 27 04:25	0°ප			5551 Oct 12 06:00	0° M	
evening max el	5550 Dec 03 23:15	7° る 30'38	25°15'39	desc. node	5551 Oct 22 13:17	17°M55'24	
retrograde	5550 Dec 15 23:35	14° る 26'47			5551 Oct 30 09:35	0° ∡ ¹	
evening set	5550 Dec 21 18:35	12°る02'24	0.65402.433	evening max el	5551 Nov 16 12:07	21° 🖈 14'07	26°20'26
min. Earth dist.	5550 Dec 26 05:30	7° る 05'54	0.67403 AU	retrograde	5551 Nov 29 06:48	28° x 25'49	
asc. node	5550 Dec 26 12:31	6° පි 43'13 5° පි 36'51	0°17'15	evening set min. Earth dist.	5551 Dec 05 15:01 5551 Dec 09 19:08	25° х 51′01 21° х 29′44	0.66494 AU
inferior conj minimum elong	5550 Dec 27 08:55 5550 Dec 27 08:29	5° る 38'15	0°17'13 0°17'06	inferior conj	5551 Dec 11 09:51	21 x ·2944 19° x ⁷ 31'41	
minimum ciong	5551 Jan 01 11:32	30°R. ✓	0 1700	minimum elong	5551 Dec 11 10:58	19° x '31'41' 19° x' 28'18	
morning rise	5551 Jan 01 22:38	29°×7'40'19		asc. node	5551 Dec 13 09:33	17° х 10'39	0 40 07
direct	5551 Jan 05 09:57	28° ✓ 30'52		morning rise	5551 Dec 17 07:32	13° ∡ ¹44'58	
	5551 Jan 09 14:19	ರ°0		direct	5551 Dec 20 08:24	12° ∡ 52'46	
morning max el	5551 Jan 12 14:01	2° る 31'13	19°26'40	morning max el	5551 Dec 27 00:25	16° ∡ ³31'10	18°37'45
greatest brilliancy	5551 Jan 25 17:03	19° る 56'26	-0.7m		5552 Jan 06 03:40	0°ರ	
desc. node	5551 Jan 31 15:32	28° る 56'00		morning set	5552 Jan 16 20:20	16° පි 45'03	
	5551 Feb 01 08:15	0° ≈		desc. node	5552 Jan 18 12:33	19° る 23'59	
morning set	5551 Feb 06 02:40	7° ≈ 20'20			5552 Jan 25 06:03	0° ≈	
max. Earth dist.	5551 Feb 18 22:34	27° ≈ 21'54	1.44688 AU	max. Earth dist.	5552 Feb 01 16:42	11° ≈ 40′36	1.45317 AU
	5551 Feb 20 14:28	0° ∀			5552 E 1 02 00 24	12010/50	1020114
superior conj	5551 Feb 22 18:57	3°) €28'59	10501/12	superior conj minimum elong	5552 Feb 02 00:24 5552 Feb 01 14:57	12°≈10'50 11°≈33'47	
minimum elong	5551 Feb 22 12:29	3° ∺ 03'11		minimum ciong	5552 Feb 13 07:49	0° \	1 29 10
evening rise	5551 Mar 08 21:07	26°) 32'11	1 3721	evening rise	5552 Feb 17 15:42	6° ∺ 53'21	
e vennig 119e	5551 Mar 10 22:49	0°Υ		greatest brilliancy	5552 Feb 25 21:02	20°) 00'14	-0.8m
asc. node	5551 Mar 24 11:48	21° Y °24'35		8	5552 Mar 03 09:10	0° Υ	
evening max el	5551 Mar 27 20:57	25° Y 23'13	18°20'02	asc. node	5552 Mar 10 08:50	8° Ƴ 55'47	
retrograde	5551 Apr 03 07:13	28° Y 50'33		evening max el	5552 Mar 10 07:45	8° Y 53'03	18°51'15
evening set	5551 Apr 06 07:36	28° Y ′01'14		retrograde	5552 Mar 17 01:15	12° Y 38'30	
inferior conj	5551 Apr 12 05:34	22° Y 36'27	3°29'39	evening set	5552 Mar 20 08:23	11° Y 35'54	
minimum elong	5551 Apr 12 06:17	22° Y '34'26	3°29'36	inferior conj	5552 Mar 25 23:05	5° Y ′53′57	3°29'52
min. Earth dist.	5551 Apr 14 15:02	19° Y ′53′02	0.63965 AU	minimum elong	5552 Mar 25 22:21	5° Y 56′13	3°29'49
morning rise	5551 Apr 18 04:02	16° Y 25'57		min. Earth dist.	5552 Mar 27 16:53	3° Y 44′04	0.65627 AU
direct	5551 Apr 24 23:36	13° Y 41′27		morning rise	5552 Mar 31 11:54	29°) (39′41	
desc. node	5551 Apr 29 14:49	14° Y 46'37	27025152	direct	5552 Mar 31 02:50	30° ₹ ₩ 50'15	
morning max el	5551 May 08 17:32	21° Y 39'56 0° と	21 33 32	direct	5552 Apr 07 00:49	26° ¥ 50'15 0° Υ	
	5551 May 15 23:53 5551 Jun 04 14:18	0° U		desc. node	5552 Apr 14 22:20 5552 Apr 15 11:51	0° Υ 25'12	
	5551 Juli 07 14.10	ν д		acse. Houc	5552 rsp1 15 11.51	0 12312	

morning max el	5552 Apr 20 03:39 5552 May 09 11:53	4° Υ 35'15 0° ႘	26°46'44	morning max el	5553 Apr 02 13:14 5553 Apr 12 19:14	17° ¥ 46'32 0° Ƴ	25°34'05
morning set	5552 May 26 00:31	28° ႘ 28'02 0° 川		marning gat	5553 May 02 11:55	0° と 10° と 59'04	
max. Earth dist.	5552 May 26 19:44 5552 May 30 06:59		1.34312 AU	morning set max. Earth dist.	5553 May 08 17:48 5553 May 12 11:32		1.36027 AU
superior conj	5552 Jun 03 15:26	15° Ⅱ 41'19		superior conj	5553 May 18 07:16	29° 8 16'29	
minimum elong	5552 Jun 03 16:55	15° Ⅱ 49'03	0°27'12	minimum elong	5553 May 18 10:30	29° 8 32'40	0°57'02
asc. node	5552 Jun 06 08:06	21° Ⅱ 19'54		,	5553 May 18 15:57	0°II	
evening rise	5552 Jun 10 10:52 5552 Jun 11 02:56	0°© 1° © 23'54		asc. node evening rise	5553 May 24 05:08 5553 May 26 08:50	11° Ⅲ 17'20 15° Ⅲ 41'29	
evening rise	5552 Jun 27 16:16	1 3 23 34 0° Ω		evening rise	5553 Jun 02 18:15	13 п 41 29	
evening max el	5552 Jun 30 16:55	3° Ω 19'11	21°14'52	evening max el	5553 Jun 13 00:28	14° © 28'26	19°58'02
desc. node	5552 Jul 12 11:05	9° Ω 14'10	21 1.02	retrograde	5553 Jun 23 07:54	19° © 31'26	19 00 02
retrograde	5552 Jul 12 16:43	9° Ω 14'18		evening set	5553 Jun 25 05:40	19° 5 21'49	
evening set	5552 Jul 15 00:25	9° Ω 01'49		desc. node	5553 Jun 29 08:07	18° © 03'08	
inferior conj	5552 Jul 24 08:37	5° Ω 03′21	-3°23'43	inferior conj	5553 Jul 04 05:29	15° 5 21'29	-1°27'58
minimum elong	5552 Jul 24 00:00	5° Ω 15'25	3°21'04	minimum elong	5553 Jul 04 01:23	15° 5 27'41	1°26'28
min. Earth dist.	5552 Jul 24 15:35		0.54778 AU	min. Earth dist.	5553 Jul 06 03:45	14° © 11'34	0.55221 AU
morning rise	5552 Aug 02 00:15	1° Ω 08'11		morning rise	5553 Jul 12 19:19	11° © 00'43	
direct	5552 Aug 05 13:33	0°Ω41'00		direct	5553 Jul 17 02:01	10°520'41	
morning max el	5552 Aug 18 05:40	6° Ω 41'22	22°28'06	morning max el	5553 Jul 30 20:12	17° © 07'21	24°12'20
asc. node	5552 Sep 02 07:22	27° £ 54'31		1-	5553 Aug 10 07:14	0°Ω 17°Ω15'35	
morning set	5552 Sep 03 10:10 5552 Sep 09 04:31	0° Mp 11° Mp 35′59		asc. node morning set	5553 Aug 20 04:24 5553 Aug 24 16:13	26°Ω28'28	
morning set	3332 Sep 09 04.31	11 111/3339		morning set	5553 Aug 26 07:48	0° M)	
superior conj	5552 Sep 16 07:02	26° m 44'13	1°41'39		3333 Aug 20 07.40	עוויי	
minimum elong	5552 Sep 16 06:11	26° m 39'43	1°41'38	superior conj	5553 Aug 31 14:56	11° m 30'48	1°34'17
S	5552 Sep 17 20:09	0∘ <u>⊽</u>		minimum elong	5553 Aug 31 13:10	11° m)21'12	1°34'08
max. Earth dist.	5552 Sep 19 14:28	3° ≏ 40′21	1.34169 AU	max. Earth dist.	5553 Sep 02 15:26	15° m 52'42	1.32983 AU
evening rise	5552 Sep 24 05:50	13° ≏ 00'10		evening rise	5553 Sep 07 23:51	27° Mp 04'06	
	5552 Oct 03 12:53	0° M ₊			5553 Sep 09 10:57	0∘ ⊽	
desc. node	5552 Oct 08 10:19	8°M02'15		desc. node	5553 Sep 25 07:21	27° ≏ 43'17	
	5552 Oct 24 11:03	0° ∡ 7			5553 Sep 26 20:00	0°M	
evening max el	5552 Oct 29 00:53	4°× 7 48'11	27°06'27	evening max el	5553 Oct 11 12:12	18°M01'25	27°26'57
retrograde evening set	5552 Nov 11 08:20 5552 Nov 18 03:55	12° 尽 06'00 9° 尽 26'22		retrograde evening set	5553 Oct 25 03:44	25°M19'00 22°M43'13	
min. Earth dist.	5552 Nov 22 01:44	5° ₹ 40'21	0.65234 AU	min. Earth dist.	5553 Nov 01 06:34 5553 Nov 04 23:20	19°M29'52	0.63632 AU
inferior conj	5552 Nov 24 04:20	3°×18'22		inferior conj	5553 Nov 04 23:20 5553 Nov 07 13:49	16°M51'28	
minimum elong	5552 Nov 24 07:19	3°×10'00		minimum elong	5553 Nov 07 18:43	16°M39'00	
č	5552 Nov 27 07:59	30°RM		morning rise	5553 Nov 14 08:26	11°M33'28	
asc. node	5552 Nov 29 06:36	28°M26'20		asc. node	5553 Nov 16 03:38	11°M06'32	
morning rise	5552 Nov 30 11:47	27°M44'28		direct	5553 Nov 16 18:56	11°M04'31	
direct	5552 Dec 03 04:18	27°M05'45		morning max el	5553 Nov 23 08:31	14°M29'19	17°50'19
	5552 Dec 09 01:54	0° ∡ ¹			5553 Dec 04 04:01	0° ⊼	
morning max el	5552 Dec 09 15:32	0° ₹ 32'45	18°05'24	morning set	5553 Dec 09 21:16	9° ∡ 749'08	
morning set	5552 Dec 27 19:27	27° メ 38'16 0° る			5553 Dec 21 19:22	0°ප	
desc. node	5552 Dec 29 05:55 5553 Jan 04 09:33	0°る 10°る01'48		superior conj	5553 Dec 22 07:55	0° る 51'35	-0°00'24
dese. Hode	3333 Jan 04 07.33	10 001 40		minimum elong	5553 Dec 22 07:53	0° る 51'25	
superior conj	5553 Jan 11 06:33	21° る 01'32	-0°46'43	behind sun begin	5553 Dec 21 22:13	0°る11'43	0 00 22
minimum elong	5553 Jan 11 00:50	20° ප 38'51		behind sun end	5553 Dec 22 17:33	1° る 31'03	
max. Earth dist.	5553 Jan 14 12:28	26° පි 08'51	1.45197 AU	desc. node	5553 Dec 22 06:34	0° る 45'58	
	5553 Jan 16 23:24	0° ≈		max. Earth dist.	5553 Dec 28 06:26	10° る 27'40	1.44357 AU
evening rise	5553 Jan 27 13:14	16° ≈ 26′54		evening rise	5554 Jan 06 23:47	25° る 40'13	
	5553 Feb 05 08:20	0° ∀			5554 Jan 09 19:37	0° ≈	
greatest brilliancy	5553 Feb 09 17:03	6° ∺ 36′06	-0.7m		5554 Jan 30 12:39	0° ∀	
evening max el	5553 Feb 21 14:25	22° H 25'47	19°39'06	evening max el	5554 Feb 04 15:47	6°) € 00'04	20°41'22
asc. node	5553 Feb 25 05:52	25° 升 28'15 26° 升 39'57		asc. node	5554 Feb 12 02:54	10°) 47'38 10°) 50'42	
retrograde evening set	5553 Feb 28 22:43 5553 Mar 04 13:26	26° ∺ 39'57 25° ∺ 23'28		retrograde evening set	5554 Feb 12 21:05 5554 Feb 16 20:44	10° ↑ 50'42 9° 升 19'38	
inferior conj	5553 Mar 09 23:45	23 ₹ 23 28 19° ¥ 26'22	3°16'20	inferior conj	5554 Feb 22 05:00	3°) 10′01	2°51'50
minimum elong	5553 Mar 09 22:00	19° X 2022	3°16'04	minimum elong	5554 Feb 22 02:42	3° ★ 17'53	2°51'18
min. Earth dist.	5553 Mar 11 02:39	17° ¥ 57′21	0.66870 AU	min. Earth dist.	5554 Feb 22 18:26	2°) €23'54	0.67688 AU
morning rise	5553 Mar 15 06:20	13° ∺ 11'12			5554 Feb 24 13:40	30° R ≈	
direct	5553 Mar 21 08:05	10°) €28'45		morning rise	5554 Feb 27 08:29	26° ≈ 55'56	
desc. node	5553 Apr 02 08:52	17° ¥ 35'31		direct	5554 Mar 04 20:37	24° ≈ 29′08	

		5554 Mar 14 19:15	0°) €		morning rise	5555 Feb 11 15:50	10° ≈ 49'27	
Signatura	marning may al			24000100	Č			
SisSA Apr 0 18.25 OP SisSA Apr 2 14.25 OP SisSA Apr 2 07.56 OP OP SisSA Apr 2 07.56 OP OP OP OP OP OP OP O	•			24 06 00				220227
	desc. flode				-			22 3631
Max. Earth dist	morning got	•			desc. Hode			
superior cooj SSS Apr 24 21,90 O°B momining ed max Part In Isla SSSS Apr 0 0 09-27 2"P4"200 max Part In Isla superior cooj SSS May 10 0016 2251346 - 122831 superior cooj SSS Apr 12 03-52 225179 - 193104 everning rise SSS May 10 0016 20543735 superior cooj SSS Apr 12 03-52 247°2319 - 193104 asc. node SSS May 10 0050 0°22 CEIT.0043 19°0100 sec. node SSS Apr 12 03-52 128'8731 everning max SSS May 10 00.55 0°22 Cerving 10 SSS May 10 00.50 0°22 refrograde SSS Jan 00 10.55 0°22 cerving 20 SSS May 10 00.50 0°22 refrograde SSS Jan 00 10.54 0°222/16 cerving 20 SSS May 10 00.00 18°24724 sinferior conj SSS Jan 10 10.25 20°21 cerving 32 SSS Jan 10 10.27 20°22 18°24724 sinferior conj SSS Jan 10 10.00 22°3 minimum elong SSS May 10 10.13 20°22 18°24724 minimum elong SSS Jan 10 10.10 22°2 20°20 20°2 <td>•</td> <td></td> <td></td> <td>1 20004 ATT</td> <td></td> <td></td> <td></td> <td></td>	•			1 20004 ATT				
max. Barth dist. 555 Apr 06 03-00 10"P" 9948 1,40300 AU minimum clong 555 Abr 06 03-00 10"P" 9948 1,40300 AU minimum clong 555 Abr 06 03-00 10"P" 9948 1,40300 AU	max. Earth dist.	_		1.38094 AU	. ,			
System Syst May 0 1111 125 1376 12925		5554 Apr 24 21:00	0.0		•	•		1 40200 411
miniman long		555436 01 11 11	100 10146	100/101	max. Earth dist.	5555 Apr 06 03:40	10° 1′39′48	1.40300 AU
Systam S		•	_				0.40000004.0	1051104
Sign and Sign Si		•	_	1°25'52	1	•		
Second S554 May 1 0 0.00 "170373 Porton S554 May 2 0.00 S555 May 2 0 12 S27573 Porton S554 May 0 0 0.556 Porton S554 May 0 0 0.556 Porton S555 May 0 0 0.00 Porton S555 May 0 0 0 1.00 Porton S555 May 0 0 0 0 0 Porton S555 May 0 0 0 0 0 Porton S555 May 0 0 0 0 0 0 Porton S555 May 0 0 0 0 0 0 Porton S555 May 0 0 0 0 0 0 Porton S555 May 0 0 0 0 0 0 0 Porton S555 May 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	evening rise	,	_		minimum elong	=		1°50'38
System		•				*	_	
SSS Jun 01 01 05 05 07 07 17 07 07 17 07 07		•			•	*	_	
cerungace 5554 Jun 04 12-19 0°923579 cerungace 5555 May 10 01-13 8°214-099 18°24/24 cerungace 5555 May 10 10.13 8°214-099 18°24/24 cerungace 5555 May 17 1-137 12°1217-13	evening max el	•		19°01'00	asc. node		_	
eventing set						•		
1	•				•	•		18°24'24
Inferior conj 5554 Jun 4 18.24 26° H0643 0°2908 minimum clong 5555 May 27 0.814 7° H3097 1°5379 1	evening set				•	•		
Minimum clong 5554 Jun 4 19/26 26°H0643 25°288 minimum clong 5555 Jun 30 15/94 4°H2034 0.58488 AU minimum farth dist. 5555 Jun 30 15/94 4°H2034 0.58488 AU minimum farth dist. 5555 Jun 30 15/94 4°H2034 0.58488 AU minimum farth dist. 5555 Jun 30 15/94 4°H2034 0.58488 AU minimum farth dist. 5555 Jun 30 12/95 2°H20721 1790			•		-	,		
docs 555 Jun 16 650 25 107 17 1912 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 24 107 1914 27 1914	inferior conj	5554 Jun 14 18:24	26° Ⅱ 08'30	0°25'33	,	5555 May 27 04:45		
min Earth dist. 555 Jun o 17 19:12 24°Π2073 0.5650 AU desc. node 5555 Jun o 3 0:07 2°Π20703 Port Time Time Time Time Time Time Time Time	minimum elong	5554 Jun 14 19:26		0°25'08	minimum elong			1°52'39
morning rise 5554 Jun 22 2247 21 11 13 13 1555 Jun 03 17.59 22 10 17.00 13 13 13 14 14 15 15 15 15 15 15	desc. node	5554 Jun 16 05:08	25° Ⅱ 07'47		min. Earth dist.	5555 May 30 15:04	4° Ⅱ 50'34	0.58488 AU
direct 5554 Jun 28 03-34 29°±07°34 direct 5555 Jun 09 19-39 0°±10°147 27°05′14 morning max el 5554 Jul 12 10-18 27°±12°92′4 28°49′58 morning max el 5555 Jul 10 15°47 0°±0 27°05′14 0°±0 5555 Jul 10 15°47 0°±0 28°56′300′21 6°€0.00 0°±0 5555 Jul 10 12°47 0°±0 28°56′300′21 6°€0.00 0°±0 28°555 Jul 10 12°47 0°±0 28°56′00°21 6°€0.00 0°±0 28°05′21 24°12°47 0°±0 28°05′21 24°12°47 0°±0 28°05′21 24°12°47 28°05′21 24°12°4 28°12°20°27 18°12°37 28°12°20°27 18°21°37 28°12°20°27 18°21°37 28°12°20°27 18°21°37 28°21°20°27 28°21°20°24 28°21°20°34 28°21°20°40 28°31°20°40 28°31°30°40 28°31°30°40 31°11°31°37 11°21°21°49°10 19°41°50 19°30°30°30 18°21°37°30 28°31°30°40 19°21°20°40°50°55°50°10 19°41°50°50°55°50°10 19°41°50°55°50°10 13°11°30°30°30°30°30°30°30°30°30°30°30°30°30°	min. Earth dist.	5554 Jun 17 19:12	24° Ⅲ 02'34	0.56550 AU	desc. node	5555 Jun 03 02:07	2° Ⅱ 29'02	
morning max el 5554 Jul 12 10.18 27° H2924 25° 49′58 morning max el 5555 Jul 24 12.07 70° 26′ 27° 05′ 14 21.07 70° 26′ 27° 05′ 14 21.07 70° 26′ 27° 05′ 14 21.07 20° 25′ 14 20° 25′ 14 20°	morning rise	5554 Jun 22 22:47	21° Ⅱ 11'39		morning rise	5555 Jun 03 17:59	2° Ⅱ 07'21	
S554 Jul 14 21:07 0°B morning set 5555 Jul 10 15:47 0°B c c c c c c c c c	direct	5554 Jun 28 03:43	20° Ⅱ 07'34		direct	5555 Jun 09 19:39	0° Ⅲ 30'43	
S554 Aug 03 14-01 0°Ω sec. node 5555 Jul 24 12-24 22-27 26-26-27 1-26-2	morning max el	5554 Jul 12 10:18	27° Ⅲ 29'24	25°49'58	morning max el	5555 Jun 24 04:57	8° Ⅱ 14'26	27°05'14
SSSS Aug 07 01.25		5554 Jul 14 21:07	0 \circ \odot			5555 Jul 10 15:47	0 \circ \odot	
Superior conj S554 Aug 09 03:30 11° Ω1812 Superior conj S555 Jul 26 09:50 0° Ω Superior conj S555 Jul 31 13:37 11° Ω17'49 10° 01'15 minimum clong S555 Aug 15 23:31 26° Ω1'14 12'118 minimum clong S555 Jul 31 11:23 11° Ω0'526 10°350 max. Farth dist. S555 Aug 10° 02:11 26° Ω1'102 S555 Aug 17 17:04 0° 0° 0 cevening rise S555 Aug 20 08:15 0° 0° 0 26° 00° 0		5554 Aug 03 14:01	$0^{\circ}\Omega$		morning set	5555 Jul 24 12:46	26° © 00'21	
superior conj 5554 Aug 16 01:46 pminimum clong 26° Ω24'04 *21'37 pminimum clong superior conj minimum clong 5555 Aug 15 23:31 26° Ω21'14 *21'18 pminimum clong minimum clong 5555 Jul 31 11:23 11° Ω05'26 *10'35'00 *10'30'00 *10'	asc. node	5554 Aug 07 01:25	6° Ω 56′29		asc. node	5555 Jul 24 22:27	26°\$51'21	
minimum elong	morning set	5554 Aug 09 03:30	11° Ω 18′12			5555 Jul 26 09:50	$0^{\circ}\Omega$	
minimum elong	_	-						
max. Earth dist.	superior conj	5554 Aug 16 01:46	26° Ω 24'04	1°21'37	superior conj	5555 Jul 31 13:37	11° Ω 17'49	1°04'15
evening rise	minimum elong	5554 Aug 15 23:31	26° Ω 11'44	1°21'18	minimum elong	5555 Jul 31 11:23	11° Ω 05'26	1°03'50
evening rise 5554 Aug 23 01:54	max. Earth dist.	5554 Aug 16 22:55	28° Ω 20'27	1.32229 AU	max. Earth dist.	5555 Jul 31 09:52	10° Ω 57'06	1.31903 AU
desc. node 5554 Sep 10 15:44 0°Ω desc. node 5555 Sep 12 04:23 16°Δ4729 desc. node 5555 Sep 12 04:23 16°Δ4729 desc. node 5555 Sep 12 01:25 5°Ω40701 2°Ω3709 desc. node 5554 Sep 23 02:49 0°RL evening max el 5555 Sep 03 21:49 12°Ω3709 2°03299 desc. node 5554 Sep 23 02:49 0°RL evening max el 5555 Sep 19 02:19 19°Ω45′19 12°Ω3704 desc. node 5555 Sep 19 02:19 19°Ω45′19 10°Ω45′19 desc. node 5555 Sep 19 02:19 10°Ω45′19 10°Ω45′19 desc. node 5555 Sep 19 02:19 10°Ω45′19 10°Ω45		5554 Aug 17 17:04	0° m		evening rise	5555 Aug 07 09:21	26° Ω 10′27	
desc. node	evening rise	5554 Aug 23 01:54	11° m 30'08		-	5555 Aug 09 05:15	0° m	
desc. node	-	5554 Sep 01 15:44				_	0° ت	
verning max el 5554 Sep 23 20.01 0° M.41 20 2° 16' 20 retrograde 5555 Sep 19 20.19 19° Δ.45' 19 17° Δ.52' 18 18 18 18 18 18 18 18	desc. node	5554 Sep 12 04:23	16° ≏ 47'29		desc. node	-	5° ≏ 00'01	
verning max el retrograde 5554 Sep 23 20:01 0°M-41'20 27°16'20 retrograde 5555 Sep 19 20:19 19°\(\text{\$\alpha}\$\) 17'\(\text{\$\alpha}\$\) 18'\(\text{\$\alpha}\$\) 18'\(\t		5554 Sep 23 02:49	0°M₊		evening max el	5555 Sep 05 21:49	12° £ 37'06	26°32'09
evening set	evening max el	5554 Sep 23 20:01	0°M41'20	27°16'20	-	5555 Sep 19 20:19	19° ≏ 45'19	
evening set	•	•	7° ጤ 54'44		•		17° £ 52'28	
min. Earth dist.	•				•			0.59692 AU
minferior conj	Č		2°M46'32	0.61745 AU				
minimum elong 5554 Oct 21 17:30 29° 48′59 3°47′38 morning rise 5555 Oct 11 10:38 8° 40′728 direct 5555 Oct 21 18.32 7° 47′55 morning rise 5554 Oct 21 12:37 30° 8 4 direct 5555 Oct 13 18:32 7° 47′55 morning rise 5554 Oct 21 17:35 25° 40⁴10 asc. node 5555 Oct 21 11:08 11° 40°211 direct 5554 Oct 31 01:01 24° 44¹126 morning max el 5555 Oct 21 11:08 11° 43′334 18°15′50 morning max el 5554 Nov 03 00:40 25° 420′50 morning max el 5554 Nov 07 00:09 28° 412′26 morning set 5554 Nov 08 15:59 0° 11 morning set 5554 Nov 22 19:14 22° 15′729 superior conj 5555 Nov 12 15:30 24° 11.502 1°09′54 superior conj 5554 Dec 03 11:33 11° ₹57′57 0°39′45 max. Earth dist. 5555 Nov 23 05:52 7° ₹38′07 1.41017 AU minimum elong 5554 Dec 03 14:49 12° ₹12'00 0°39′19 desc. node 5555 Nov 26 00:38 12° ₹18′54 max. Earth dist. 5554 Dec 10 20:26 24° ₹20′53 1.42907 AU 5555 Dec 29 03:00 0° ≈ 12° ₹33′40 evening rise 5555 Jan 03 04:02 0° ≈ retrograde 5555 Jan 18 11:47 19° ≈35′40 21° 54′33 evening set evening max el 5555 Jan 29 23:56 24° ≈39′43 inferior conj 5556 Jan 12 10:36 1° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈39′43 minimum elong 5555 Feb 06 10:15 17° ≈39′43 minimum elong 5555 Jan 22 13:14 30° ₹5 1° 35′56 Jan 11 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈39′43 minimum elong 5556 Jan 21 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈00′48 2° 18′11 minimum elong 5556 Jan 21 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈00′48 2° 18′11 minimum elong 5556 Jan 21 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈00′48 2° 18′11 minimum elong 5556 Jan 21 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈00′48 2° 11′19 minimum elong 5556 Jan 21 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈00′48 2° 11′190 minimum elong 5556 Jan 21 10:36 17° ≈31′27 0.68123 AU minimum elong 5555 Feb 06 10:15 17° ≈00′48 2° 11′190 minimum elong 5556 Jan 21 10:36 10° ≈31′27 0.68123 AU minimum elong 5555 F				-3°49'31				
morning rise 5554 Oct 2 l 12:37 30°R ← direct 5555 Oct 13 18:32 7° ←47'55 morning rise 5554 Oct 2 8 17:35 25° ←04'10 asc. node 5555 Oct 2 l 11:08 11° ←02'11 asc. node 5555 Oct 2 l 11:08 11° ←02'11 asc. node 5555 Nov 02 16:56 0° € 5555 Nov 02 16:56 Nov 02 16:56 0° € 5555 Nov 02 16:56 0° €	,				_		8° ≏ 07'28	
morning rise 5554 Oct 28 17:35 25° ⊕04'10 asc. node 5555 Oct 20 21:42 11° ⊕02'11 direct 5554 Oct 31 01:01 24° ⊕41'26 morning max el 5555 Oct 21 11:08 11° ⊕33'34 18°15'50 asc. node 5554 Nov 03 00:40 25° ⊕20'50 5555 Nov 02 16:56 0° € € € € € € € € € € € € € € € € € €					•			
direct 5554 Oct 31 01:01 24° \(\triangle A41'26\) morning max el 5555 Oct 21 11:08 11° \(\triangle A33'34\) 18°15'50 asc. node 5554 Nov 03 00:40 25° \(\triangle 20'50\) morning max el 5554 Nov 03 00:40 25° \(\triangle 20'50\) 0° \(\triangle L\) sophis 5555 Nov 02 16:56 0° \(\triangle L\) 6° \(\triangle L\) 46' 49 40' 40' 40' 40' 40' 40' 40' 40' 40' 40'	morning rise							
asc. node morning max el 5554 Nov 03 00:40 25° \(\overline{\text{2}}\) 20'50 17°53'19 morning set 5555 Nov 06 07:34 6° \(\overline{\text{L4}}\) 46' \(\overline{\text{L4}}\) 40' \(\overline{\text{L4}}\) 40' \(\o	•							18°15'50
morning max el 5554 Nov 07 00:09 28° \(\Omega\$ 12'26 \) 17°53'19 morning set 5555 Nov 06 07:34 6° \(\Omega\$ 46'49 \) 10° \(\Omega\$ 46'49 \) 10° \(\Omega\$ 5554 Nov 08 15:59 \) 0° \(\Omega\$ 5555 Nov 08 15:59 \) 0° \(\Omega\$ 46'49 \) 10° \(\Omega\$ 5555 Nov 08 15:59 \) 15554 Nov 26 16:41 0° \(\Omega\$ 7 \) 110° \(\Omega\$ 11:33 \) 11° \(\Omega\$ 75'57 \) 0° 39'45 max. Earth dist. 5555 Nov 23 05:52 7° \(\Omega\$ 38'07 \) 1.41017 AU minimum elong 5554 Dec 03 14:49 12° \(\omega\$ 12'20 \) 0°39'19 desc. node 5555 Nov 26 00:38 12° \(\Omega\$ 12' \) 15° \(\Omega\$ 34'06 \) 12° \(\omega\$ 12' \omega\$ 12' \(\Omega\$ 12' \omega\$ 12' \omega\$ 14'290 \) 142907 AU evening rise 5555 Dec 29 03:00 0° \(\Omega\$ 20' \omega\$ 13' \omega\$ 12' \(\Omega\$ 13' \omega\$ 14'2907 AU evening max el 5555 Jan 03 04:02 0° \(\Omega\$ 21' \omega\$ 13' \omega\$ 11' 12' \omega\$ 12' \omega\$ 13' \omega\$ 12' \omega\$ 13' \omega\$ 23' \omega\$ 13' \omega\$ 12' \omega\$ 13' \omega\$ 13' \omega\$ 11' 12' \omega\$ 12' \omega\$ 13' \omega\$ 13' \omega\$ 13' \omega\$ 13' \omega\$ 12' \omega\$ 13' \omega\$ 15' \omega\$ 13' \omega\$ 12' \omega\$ 13' \omega\$ 13' \omega\$ 13' \omega\$ 13' \omega\$ 12' \omega\$ 13' \om					morning man er			10 10 00
S554 Nov 08 15:59 0° 1				17°53'19	morning set			
Solution Set Solid So	morning max or			17 33 17	morning sec	2232 1101 00 07.51	0 110 10 15	
Signature Sig	morning set				superior coni	5555 Nov 15 15:30	24°M.15'02	1°09'54
superior conj 5554 Dec 03 11:33 11°₹57'57 0°39'45 max. Earth dist. 5555 Nov 23 05:52 7°₹38'07 1.41017 AU minimum elong 5554 Dec 03 14:49 12°₹12'00 0°39'19 desc. node 5555 Nov 26 00:38 12°₹18'54 desc. node 5554 Dec 09 03:35 21°₹32'42 evening rise 5555 Nov 28 00:01 15°₹34'06 max. Earth dist. 5554 Dec 10 20:26 24°₹20'53 1.42907 AU 5555 Dec 07 03:57 0°₹ 20:00 0°\$€ evening rise 5555 Dec 17 14:59 5°₹11'53 evening max el 5556 Jan 01 03:36 3°\$€14'32 23°13'41 evening max el 5555 Jan 03 04:02 0°\$€ retrograde 5555 Jan 18 11:47 19°\$€35'40 21°54'33 evening set 5556 Jan 16 11:12 7°\$€21'26 retrograde 5555 Jan 27 18:19 25°\$€06'09 asc. node 5556 Jan 16 20:58 7°\$€00'06 asc. node 5555 Feb 06 12:37 17°\$€00'48 2°18'11 minimum elong 5556 Jan 21 18:45 1°\$€31'27 0.68123 AU minimum elong 5555 Feb 06 10:15 17°\$€09'01 2°17'29 5556 Jan 22 13:14 30°\$₹€	morning set							
superior conj 5554 Dec 03 11:33 11° ₹57'57 0°39'45 max. Earth dist. 5555 Nov 23 05:52 7° ₹38'07 1.41017 AU minimum elong 5554 Dec 03 14:49 12° ₹12'00 0°39'19 desc. node 5555 Nov 26 00:38 12° ₹18'54 desc. node 5554 Dec 09 03:35 21° ₹32'42 evening rise 5555 Nov 28 00:01 15° ₹34'06 max. Earth dist. 5554 Dec 10 20:26 24° ₹20'53 1.42907 AU 5555 Dec 07 03:57 0° ₹ evening rise 5554 Dec 14 08:14 0° ₹ evening max el 5555 Dec 29 03:00 0° ₹ evening rise 5555 Jan 03 04:02 0° ₹ evening max el 5556 Jan 01 03:36 3° ≈14'32 23° 13'41 evening max el 5555 Jan 03 04:02 0° ≈ retrograde 5556 Jan 11 12:55 9° ≈23'25 evening max el 5555 Jan 27 18:19 25° ≈06'09 asc. node 5556 Jan 16 11:12 7° ≈00'06 asc. node 5555 Jan 29 23:56 24° ≈39'43 minimum elong 5556 Jan 21 20:44 0° ≈56'35 1°36'38 evening set 5555 Feb 06 12:37 17° ≈00'48 2°18'11 min. Earth dist. 5556 Jan 21 10:36 1° ≈31'27 <td></td> <td>3334 NOV 20 10.41</td> <td>0 ^</td> <td></td> <td>minimum ciong</td> <td></td> <td></td> <td>1 0727</td>		3334 NOV 20 10.41	0 ^		minimum ciong			1 0727
minimum elong 5554 Dec 03 14:49 12°ネ12'00 0°39'19 desc. node 5555 Nov 26 00:38 12°ネ18'54 desc. node 5554 Dec 09 03:35 21°ネ32'42 evening rise 5555 Nov 28 00:01 15°ネ34'06 max. Earth dist. 5554 Dec 10 20:26 24°ネ20'53 1.42907 AU 5555 Dec 07 03:57 0°云 evening rise 5554 Dec 17 14:59 5°♂11'53 evening max el 5555 Jan 03 04:02 0°≈ retrograde 5555 Jan 18 11:47 19°≈35'40 21°54'33 evening set 5555 Jan 18 11:47 19°≈35'40 21°54'33 evening set 5556 Jan 16 11:12 7°≈21'26 retrograde 5555 Jan 29 23:56 24°≈39'43 evening set 5555 Jan 29 23:56 24°≈39'43 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 min. Earth dist. 5556 Jan 22 13:14 30°₹♂ 10.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29	superior coni	5554 Dag 02 11:22	110.75757	0°20'45	may Earth dist			1 41017 411
desc. node 5554 Dec 09 03:35 21° ₹32'42 evening rise 5555 Nov 28 00:01 15° ₹34'06 max. Earth dist. 5554 Dec 10 20:26 24° ₹20'53 1.42907 AU 5555 Dec 07 03:57 0° ₹34'06 evening rise 5554 Dec 14 08:14 0° ₹ 6 6 6 6 6 6 6 6 6								1.41017 AU
max. Earth dist. 5554 Dec 10 20:26 24°₹20'53 1.42907 AU 5555 Dec 07 03:57 0°₹ evening rise 5554 Dec 14 08:14 0°ጜ evening max el 5555 Jan 03 04:02 0°≈ retrograde 5555 Jan 18 11:47 19°≈35'40 21°54'33 evening set 5555 Jan 18 11:47 19°≈35'40 21°54'33 evening set 5556 Jan 16 11:12 7°≈21'26 retrograde 5555 Jan 27 18:19 25°≈06'09 asc. node 5556 Jan 16 20:58 7°≈00'06 asc. node 5555 Jan 29 23:56 24°≈39'43 inferior conj 5556 Jan 21 20:44 0°≈56'35 1°36'38 evening set 5555 Feb 01 04:30 23°≈19'49 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 min. Earth dist. 5556 Jan 22 13:14 30°₹♂ 10.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29	Č			0 39 19				
evening rise 5554 Dec 14 08:14 0°3 evening max el 5555 Dec 29 03:00 0°≈ 23°13'41 evening max el 5555 Jan 03 04:02 0°≈ retrograde 5556 Jan 11 12:55 9°≈23'25 evening max el 5555 Jan 18 11:47 19°≈35'40 21°54'33 evening set 5556 Jan 16 11:12 7°≈21'26 retrograde 5555 Jan 27 18:19 25°≈06'09 asc. node 5556 Jan 16 20:58 7°≈00'06 asc. node 5555 Jan 29 23:56 24°≈39'43 inferior conj 5556 Jan 21 20:44 0°≈56'35 1°36'38 evening set 5555 Feb 01 04:30 23°≈19'49 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 min. Earth dist. 5556 Jan 21 10:36 1°≈31'27 0.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 5556 Jan 22 13:14 30°₹				1 42007 ATT	evening rise			
evening rise	max. Latui Uist.			1.445U/ AU				
S555 Jan 03 04:02 0° ≈ retrograde 5556 Jan 11 12:55 9° ≈ 23'25 evening max el 5555 Jan 18 11:47 19° ≈ 35'40 21° 54'33 evening set 5556 Jan 16 11:12 7° ≈ 21'26 retrograde 5555 Jan 27 18:19 25° ≈ 06'09 asc. node 5555 Jan 29 23:56 24° ≈ 39'43 inferior conj 5556 Jan 21 20:44 0° ≈ 56'35 1° 36'38 evening set 5555 Feb 01 04:30 23° ≈ 19'49 minimum elong 5556 Jan 21 18:45 1° ≈ 03'24 1° 35'56 inferior conj 5555 Feb 06 12:37 17° ≈ 00'48 2° 18'11 min. Earth dist. 5556 Jan 22 13:14 30° ₹ 5 30° ₹	avaning rise				avaning mey al			23012141
evening max el 5555 Jan 18 11:47 19°≈35'40 21°54'33 evening set 5556 Jan 16 11:12 7°≈21'26 retrograde 5555 Jan 27 18:19 25°≈06'09 asc. node 5555 Jan 29 23:56 24°≈39'43 inferior conj 5556 Jan 21 20:44 0°≈56'35 1°36'38 evening set 5555 Feb 01 04:30 23°≈19'49 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 min. Earth dist. 5556 Jan 22 13:14 30°₹5 0.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 5556 Jan 22 13:14 30°₹5	evening rise				•			23 1341
retrograde 5555 Jan 27 18:19 25°≈06'09 asc. node 5556 Jan 16 20:58 7°≈00'06 asc. node 5555 Jan 29 23:56 24°≈39'43 inferior conj 5556 Jan 21 20:44 0°≈56'35 1°36'38 evening set 5555 Feb 01 04:30 23°≈19'49 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 min. Earth dist. 5556 Jan 21 10:36 1°≈31'27 0.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 5556 Jan 22 13:14 30°₹5	ovenie 1			21054122	•			
asc. node 5555 Jan 29 23:56 24°≈39'43 inferior conj 5556 Jan 21 20:44 0°≈56'35 1°36'38 evening set 5555 Feb 01 04:30 23°≈19'49 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 minimum elong 5556 Jan 21 10:36 1°≈31'27 0.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 5556 Jan 22 13:14 30°₹♂	•			21 34 33	•			
evening set 5555 Feb 01 04:30 23°≈19'49 minimum elong 5556 Jan 21 18:45 1°≈03'24 1°35'56 inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 minimum elong 5556 Jan 21 10:36 1°≈31'27 0.68123 AU 30°₹5	•							1027120
inferior conj 5555 Feb 06 12:37 17°≈00'48 2°18'11 min. Earth dist. 5556 Jan 21 10:36 1°≈31'27 0.68123 AU minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 5556 Jan 22 13:14 30°₹♂					-			
minimum elong 5555 Feb 06 10:15 17°≈09'01 2°17'29 5556 Jan 22 13:14 30°R♂	•			2010111	-			
	•				min. Earth dist.			0.08123 AU
min. Earth dist. 3353 Feb. Ub. 15:51 16°≈30'29 U.68U98 AU morning rise 5556 Jan 27 U2:14 24° 649'40	•				· ·			
	min. Earth dist.	5555 Feb 06 13:51	16~≈56′29	0.68098 AU	morning rise	5556 Jan 2/ 02:14	24° 0 49'40	

Ji	5556 I 21 00.40	220706141		4:	5557 I 14 07.51	70=22110	
direct	5556 Jan 31 09:40	23°₹06'41	2101.425	direct	5557 Jan 14 07:51	7° る 33'18	20001155
morning max el	5556 Feb 08 23:09		21°14'37	morning max el	5557 Jan 21 22:04	11° る 50'56	20°01'57
	5556 Feb 10 19:01	0° ≈			5557 Feb 04 18:35	0° ≈	
desc. node	5556 Feb 21 23:52	14° ≈ 33'03		desc. node	5557 Feb 07 20:55	4° ≈ 35'41	
	5556 Mar 03 11:41	0° ℋ		morning set	5557 Feb 17 21:01	19° ≈ 48'43	
morning set	5556 Mar 10 23:53	11° ∺ 36′16			5557 Feb 24 10:02	0° ∀	
max. Earth dist.	5556 Mar 18 05:39	23°) (14′09	1.42363 AU	max. Earth dist.	5557 Feb 28 15:25	6°) (41′34	1.44007 AU
	5556 Mar 22 07:26	$_0$ ° γ					
				superior conj	5557 Mar 06 02:42	15° ¥ 31'36	-2°07'44
superior conj	5556 Mar 25 13:19	5° Ƴ 30'46	-2°06'42	minimum elong	5557 Mar 05 23:57	15° ¥ 20′25	
minimum elong	5556 Mar 25 16:07		2°06'36	minimum ciong	5557 Mar 14 19:08	0°Υ	2 07 37
evening rise	5556 Apr 05 22:05	25° Υ 38'20	2 00 30	evening rise	5557 Mar 19 04:12	7° Υ 29'14	
evening rise		0° 8		Č		7 7 29 14 28° Υ 18'41	
	5556 Apr 08 08:03	_		asc. node	5557 Mar 31 17:17		
asc. node	5556 Apr 13 20:14	9° 8 40'50			5557 Apr 01 21:29	0° 8	
evening max el	5556 Apr 22 11:50	21° 8 46'22	18°07'41	evening max el	5557 Apr 06 00:41	5° 8 00'58	18°10'10
retrograde	5556 Apr 29 04:34	25° 8 10'55		retrograde	5557 Apr 12 10:42	8° 8 23'48	
evening set	5556 May 01 18:53	24° 8 40'27		evening set	5557 Apr 15 07:22	7° 8 41'41	
inferior conj	5556 May 08 11:33	19° 8 45'30	2°51'06	inferior conj	5557 Apr 21 11:00	2° 8 27'11	3°21'48
minimum elong	5556 May 08 14:36	19° 8 38'15	2°50'27	minimum elong	5557 Apr 21 12:38	2° 8 22'47	3°21'37
min. Earth dist.	5556 May 11 17:34	16° 8 42'14	0.60686 AU		5557 Apr 23 17:46	30° ₹ Υ	
morning rise	5556 May 15 08:05	13° 8 52'43		min. Earth dist.	5557 Apr 24 04:58	29° Ƴ 30′50	0.62831 AU
desc. node	5556 May 19 23:09	11° 8 54'49		morning rise	5557 Apr 27 16:35	26° Y 20'49	
direct	5556 May 21 23:21	11° 8 43'06		direct	5557 May 04 12:43	23° Ƴ 45'40	
morning max el	5556 Jun 05 06:11	19° 8 39'06	27°46'47	desc. node	5557 May 06 20:10	24° Υ 01'47	
morning max or	5556 Jun 14 01:38	0° I	27 10 17	dese. Hode	5557 May 16 16:38	0°8	
	5556 Jul 02 11:59	0°©		morning max el	5557 May 18 13:04	1° 8 46'24	27050124
				morning max er		0°Ⅱ	27 30 24
morning set	5556 Jul 07 18:11	10°528'23		. ,	5557 Jun 08 07:48		
asc. node	5556 Jul 10 19:29	16°954'26	1 22002 177	morning set	5557 Jun 21 17:38	24° Ⅲ 35'57	
max. Earth dist.	5556 Jul 13 20:25	23° © 30'02	1.32002 AU		5557 Jun 24 08:53	0.ee	
				max. Earth dist.	5557 Jun 27 02:35	5° © 46'37	1.32534 AU
superior conj	5556 Jul 15 00:42	26° © 05'20	0°42'42	asc. node	5557 Jun 27 16:33	7° © 01'24	
minimum elong	5556 Jul 14 22:56	25° © 55'36	0°42'19				
	5556 Jul 16 19:18	$0 ^{\circ} \Omega$		superior conj	5557 Jun 29 09:15	10°9541'00	0°17'33
evening rise	5556 Jul 21 19:56	10° Ω 56'54		minimum elong	5557 Jun 29 08:25	10° © 36'31	0°17'22
	5556 Jul 31 12:04	0° m		evening rise	5557 Jul 06 07:44	25° © 43'14	
desc. node	5556 Aug 15 22:27	21° m 59'04			5557 Jul 08 08:33	$0 {\circ} \Omega$	
evening max el	5556 Aug 17 15:47	23° Mp 42'40	25°17'37		5557 Jul 26 07:48	0° m ∤	
	5556 Aug 27 03:36	0∘ ত		evening max el	5557 Jul 30 04:18	4° Mp 10′29	23°43'47
retrograde	5556 Aug 31 14:02	0° £ 45'48		desc. node	5557 Aug 02 19:28	7° Mp 16'13	
	5556 Sep 05 00:35	30°₽, ™)		retrograde	5557 Aug 12 20:03	11° m 02'02	
evening set	5556 Sep 06 08:51	29° m 28'56		evening set	5557 Aug 17 04:18	10° m 20'32	
min. Earth dist.	5556 Sep 11 03:25	26° m 48'36	0.57672 AU	min. Earth dist.	5557 Aug 23 14:19	7° m 17'00	0.55982 AU
inferior conj	5556 Sep 14 04:10	24° m 44'45		inferior conj	5557 Aug 25 18:53	5° m 57'53	
minimum elong	5556 Sep 14 06:43	•	5°16'00	minimum elong	5557 Aug 25 15:04	6° m 03'41	5°12'04
morning rise	5556 Sep 22 06:51	20° m/30'44	3 10 00	morning rise	5557 Sep 03 04:17	2° m/02'43	3 12 0 1
direct	5556 Sep 24 19:03	20° mg 11'55		direct	5557 Sep 05 04:17	1° Mp 42'51	
	•	24° m 22'00	18°59'27		•	6° m 29'03	20°05'03
morning max el	5556 Oct 03 13:58	~	10 3921	morning max el	5557 Sep 16 05:46	~	20 03 03
asc. node	5556 Oct 06 18:44	27° m 55'10		asc. node	5557 Sep 23 15:47	15° Mp 45'00	
	5556 Oct 08 08:05	0∘ ⊽			5557 Oct 01 15:10	0∘ ʊ	
morning set	5556 Oct 20 05:45	21° △ 03′23		morning set	5557 Oct 04 10:31	5° ≏ 37'57	
	5556 Oct 24 18:24	0°M₊				_	
				superior conj	5557 Oct 12 03:17	21° ≏ 19'50	
superior conj	5556 Oct 28 14:26	7°M27'12	1°29'46	minimum elong	5557 Oct 12 04:36	21° ≏ 26'31	1°40'23
minimum elong	5556 Oct 28 17:17	7° M 40'49	1°29'32		5557 Oct 16 13:06	0° M	
max. Earth dist.	5556 Nov 04 11:33	20°M₁2'59	1.38908 AU	max. Earth dist.	5557 Oct 17 17:15	2° ™ 14'24	1.36841 AU
evening rise	5556 Nov 08 07:40	26°M57'18		evening rise	5557 Oct 21 12:43	9°M18'36	
	5556 Nov 10 02:33	0° ∡ ¹		desc. node	5557 Oct 29 18:44	23°M32'43	
desc. node	5556 Nov 11 21:41	3° ₹ 00′21			5557 Nov 02 19:32	0°⊀	
	5556 Nov 29 17:29	0°る			5557 Nov 25 12:54	0°₹	
evening max el	5556 Dec 13 16:54	16° る 56'57	24°32'46	evening max el	5557 Nov 26 05:27	0° る 40'55	25°44'55
retrograde	5556 Dec 25 03:51	23° る 38'26	- - - -	retrograde	5557 Dec 08 14:15	7° る 45'26	
evening set	5556 Dec 30 15:17	21° පි 21'27		evening set	5557 Dec 14 15:05	5° る 15'46	
asc. node	5557 Jan 02 17:59	21 3 2127		min. Earth dist.	5557 Dec 18 22:54	0°る34'25	0.67062 AU
min. Earth dist.	5557 Jan 04 06:23	16° ろ 05'26	0.67774 AU	mm. Latin dist.	5557 Dec 19 09:49	0 ℃3423 30°R √	0.07002 AU
inferior conj	5557 Jan 05 03:33	16 303 26 14° る 54'52	0.67774 AU 0°48'05	inferior conj	5557 Dec 20 07:11	30 KX. 28° ₹ 52'07	-0.06,40
·							
minimum elong	5557 Jan 05 02:25	14°る58'38	0°47'38	minimum elong	5557 Dec 20 07:21	28° 🗷 51'35	0°06'35
morning rise	5557 Jan 10 13:40	8° る 54'10		transit middle	5557 Dec 20 07:21	28° ≯ 51'35	0°06'35

transit begin	5557 Dec 20 04:47	28° ∡ ¹59'45		inferior conj	5558 Dec 04 05:41	12° ∡ ⁴44'52	-1°06'33
transit end	5557 Dec 20 09:56	28° ∡ ¹43'25		minimum elong	5558 Dec 04 07:33	12° ₹ 39'21	1°05'45
asc. node	5557 Dec 20 15:02	28° ∡ ¹27'18		asc. node	5558 Dec 07 12:03	9° ∡ ¹09'55	
morning rise	5557 Dec 26 00:05	22° х 59'42		morning rise	5558 Dec 10 07:19	7° ∡ 03'12	
direct	5557 Dec 29 06:38	21° ∡ 758′13		direct	5558 Dec 13 04:15	6° ∡ 17'21	
morning max el	5558 Jan 05 04:46	25° ∡ ¹47'54	19°03'51	morning max el	5558 Dec 19 17:32	9° ∡ ¹50'06	18°21'52
morning man er	5558 Jan 08 21:00	0°ਰ	1, 0001	morning man er	5559 Jan 02 23:15	0°ප	10 2102
desc. node	5558 Jan 25 17:57	24°る56'02		morning set	5559 Jan 08 06:55	8° る 32'16	
				•			
morning set	5558 Jan 28 00:55	28° る 29'40		desc. node	5559 Jan 12 15:00	15° る 29'09	
	5558 Jan 29 00:08	0° ≈			5559 Jan 21 18:54	0° ≈	
max. Earth dist.	5558 Feb 11 06:55	20° ≈ 45'27	1.45041 AU				
				superior conj	5559 Jan 23 19:55	3°≈12'30	-1°12'53
superior conj	5558 Feb 13 16:37	24° ≈ 32'51 -	1°49'28	minimum elong	5559 Jan 23 11:23	2° ≈ 39'01	1°11'52
minimum elong	5558 Feb 13 08:05	23° ≈ 59'09	1°48'49	max. Earth dist.	5559 Jan 25 01:36	5° ≈ 08'54	1.45359 AU
	5558 Feb 17 03:09	0° ∀		evening rise	5559 Feb 08 21:13	28° ≈ 21'57	
evening rise	5558 Feb 28 12:16	18° ¥ 23′01			5559 Feb 09 22:10	0° ∀	
C	5558 Mar 07 14:38	0° Y		greatest brilliancy	5559 Feb 19 10:33	14°) 53′24	-0.8m
asc. node	5558 Mar 18 14:19	16° Ƴ 17'17		8	5559 Mar 02 03:09	o°Υ	
evening max el	5558 Mar 20 12:52		18°31'09	evening max el	5559 Mar 03 22:08	1°Υ58'09	19°09'40
retrograde	5558 Mar 27 01:25	22° Υ '00'26	16 31 09	asc. node	5559 Mar 05 11:20	3°Υ25'27	19 0940
Č						5° Υ 54'40	
evening set	5558 Mar 30 04:29	21° Y °05'42		retrograde	5559 Mar 10 21:11		
inferior conj	5558 Apr 04 22:58		3°31'38	evening set	5559 Mar 14 07:20	4° Y 46′26	
minimum elong	5558 Apr 04 23:01		3°31'37		5559 Mar 19 00:22	30°Ŗ ℋ	
min. Earth dist.	5558 Apr 07 01:47		0.64714 AU	inferior conj	5559 Mar 19 19:53	28°) € 57'59	3°25'34
morning rise	5558 Apr 10 16:51	9° Ƴ 20'29		minimum elong	5559 Mar 19 18:40	29°) €01'52	3°25'26
direct	5558 Apr 17 10:10	6° Ƴ 32'12		min. Earth dist.	5559 Mar 21 07:17	27°) €04'37	0.66215 AU
desc. node	5558 Apr 23 17:12	8° Y 32'10		morning rise	5559 Mar 25 05:38	22°) 42'58	
morning max el	5558 Apr 30 22:48		27°18'27	direct	5559 Mar 31 14:20	19° ¥ 54'50	
3	5558 May 13 13:55	0°8		desc. node	5559 Apr 10 14:14	24°) (53'17	
	5558 Jun 01 00:03	0°П		morning max el	5559 Apr 13 08:42	27°) 30'29	26°17'56
morning set	5558 Jun 05 08:21	8° Ⅱ 14'25		morning max er	5559 Apr 15 17:03	0° Υ	20 17 30
max. Earth dist.	5558 Jun 10 00:13		1.33521 AU		•	0°8	
max. Earm dist.	3338 Juli 10 00.13	1/ Д344/	1.33321 AU		5559 May 07 06:21		
	5550 X 10 10 15	0.40 H 5010.0	0010100	morning set	5559 May 19 10:44	21° 8 13'42	1 2 100 6 1 7 7
superior conj	5558 Jun 13 13:15	24° ∏ 58'33 -		max. Earth dist.	5559 May 23 10:41	28° 8 52'23	1.34986 AU
minimum elong	5558 Jun 13 13:47	25° I I01'25	0°10'23		5559 May 24 00:28	Π $^{\circ}0$	
behind sun begin	5558 Jun 13 09:33	24° Ⅱ 39'01					
behind sun end	5558 Jun 13 18:01	25° Ⅱ 23'51		superior conj	5559 May 28 10:21	8° Ⅱ 51'35	-0°40'16
asc. node	5558 Jun 14 13:36	27° Ⅱ 07'44		minimum elong	5559 May 28 12:35	9° Ⅱ 02'59	0°39'51
	5558 Jun 15 21:54	0ංම		asc. node	5559 Jun 01 10:37	17° Ⅲ 09'37	
evening rise	5558 Jun 20 18:48	10°9522'57		evening rise	5559 Jun 05 03:14	24° ∏ 50′25	
•	5558 Jun 30 22:54	$0^{\circ}\Omega$			5559 Jun 07 15:55	0°ಅ	
evening max el	5558 Jul 11 18:54		22°06'42	evening max el	5559 Jun 23 19:19	25° © 18'27	20°39'59
desc. node	5558 Jul 20 16:27	20° Ω 17'33			5559 Jun 30 15:18	0°N	_, _,
retrograde	5558 Jul 24 14:23	20° Ω 53'18		retrograde	5559 Jul 05 02:34	0° Ω 51'22	
evening set	5558 Jul 27 11:32	20° Ω 34'50		evening set	5559 Jul 07 03:52	0° Ω 41'08	
min. Earth dist.		16° Ω 54'21	0.54052 ATT	desc. node	5559 Jul 07 03:32 5559 Jul 07 13:28	0° Ω 36'50	
	5558 Aug 05 00:15			desc. node			
inferior conj	5558 Aug 05 17:15	16° Ω 30′26 -			5559 Jul 09 19:29	30°R≌	2026121
minimum elong	5558 Aug 05 08:34	16° Ω 42'40 •	4°15'42	inferior conj	5559 Jul 16 10:20	26°5544'16	
morning rise	5558 Aug 14 07:16	12° Ω 40'31		minimum elong	5559 Jul 16 03:11	26° © 54'31	
direct	5558 Aug 17 12:46	12° Ω 17'17		min. Earth dist.	5559 Jul 17 11:16	26° © 08'33	0.54842 AU
morning max el	5558 Aug 29 09:22	17° Ω 50'08 ∶	21°31'19	morning rise	5559 Jul 25 01:59	22° © 40'07	
	5558 Sep 07 23:04	0° m ∕		direct	5559 Jul 28 22:06	22° © 08'25	
asc. node	5558 Sep 10 12:50	4° m 18'50		morning max el	5559 Aug 11 02:53	28° © 30'03	23°12'16
	3336 Sep 10 12.30					_	
morning set	•	20° Mp 24'16			5559 Aug 12 15:29	0°{}	
morning set	5558 Sep 18 19:29	20°Mp24'16 0° ≏		asc. node	5559 Aug 12 15:29 5559 Aug 28 09:53	0°Ω 23°Ω25'16	
morning set	•	20° № 24'16 0° ჲ		asc. node	5559 Aug 28 09:53	23° Ω 25'16	
-	5558 Sep 18 19:29 5558 Sep 23 08:55	0∘ ⊽	1°43'11		5559 Aug 28 09:53 5559 Aug 31 17:50	23° Ω 25'16 0° m	
superior conj	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55	0° ჲ 5° ჲ 41'11		asc. node morning set	5559 Aug 28 09:53	23° Ω 25'16	
superior conj minimum elong	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47	0° உ 5° உ 41'11 5° உ 40'29	1°43'11	morning set	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40	23° \Omega 25'16 0° m/ 5° m/15'51	1°30'14
superior conj minimum elong max. Earth dist.	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37	0° Ω 5° Ω 41'11 5° Ω 40'29 14° Ω 06'35		morning set superior conj	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09	23° Q 25'16 0° m 5° m 15'51 20° m 20'41	1°39'14
superior conj minimum elong	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21	0° Ω 5° Ω 41'11 5° Ω 40'29 14° Ω 06'35 22° Ω 29'04	1°43'11	morning set superior conj minimum elong	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52	23° Q 25'16 0° my 5° my 15'51 20° my 20'41 20° my 13'45	1°39'10
superior conj minimum elong max. Earth dist. evening rise	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40	0° £ 5° £ 41'11 5° £ 40'29 14° £ 06'35 22° £ 29'04 0° ጤ	1°43'11	morning set superior conj	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22	
superior conj minimum elong max. Earth dist.	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40 5558 Oct 16 15:44	0° Ω 5° Ω 41'11 5° Ω 40'29 14° Ω 06'35 22° Ω 29'04 0° ጤ 13° ጤ51'04	1°43'11	morning set superior conj minimum elong max. Earth dist.	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44 5559 Sep 14 21:00	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22 0° Ω	1°39'10
superior conj minimum elong max. Earth dist. evening rise	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40	0° Δ 5° Δ 41'11 5° Δ 40'29 14° Δ 06'35 22° Δ 29'04 0° M 13° M 51'04 0° ズ	1°43'11 1.35033 AU	morning set superior conj minimum elong	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22 0° £ 6° £ 16'33	1°39'10
superior conj minimum elong max. Earth dist. evening rise	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40 5558 Oct 16 15:44	0° Ω 5° Ω 41'11 5° Ω 40'29 14° Ω 06'35 22° Ω 29'04 0° ጤ 13° ጤ51'04	1°43'11 1.35033 AU	morning set superior conj minimum elong max. Earth dist.	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44 5559 Sep 14 21:00	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22 0° Ω	1°39'10
superior conj minimum elong max. Earth dist. evening rise desc. node	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40 5558 Oct 16 15:44 5558 Oct 27 13:11	0° Δ 5° Δ 41'11 5° Δ 40'29 14° Δ 06'35 22° Δ 29'04 0° M 13° M 51'04 0° ズ	1°43'11 1.35033 AU	morning set superior conj minimum elong max. Earth dist.	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44 5559 Sep 14 21:00 5559 Sep 17 23:21	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22 0° £ 6° £ 16'33	1°39'10
superior conj minimum elong max. Earth dist. evening rise desc. node	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40 5558 Oct 16 15:44 5558 Oct 27 13:11 5558 Nov 08 18:15	0° Ω 5° Ω 41'11 5° Ω 40'29 14° Ω 06'35 22° Ω 29'04 0° M 13° M .51'04 0° x 14° x 21'55	1°43'11 1.35033 AU	morning set superior conj minimum elong max. Earth dist. evening rise	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44 5559 Sep 14 21:00 5559 Sep 17 23:21 5559 Oct 01 03:17	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22 0° £ 6° £ 16'33 0° M	1°39'10 1.33608 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	5558 Sep 18 19:29 5558 Sep 23 08:55 5558 Sep 26 01:55 5558 Sep 26 01:47 5558 Sep 30 04:37 5558 Oct 04 11:21 5558 Oct 08 12:40 5558 Oct 16 15:44 5558 Oct 27 13:11 5558 Nov 08 18:15 5558 Nov 21 19:23	0° Ω 5° Ω41'11 5° Ω40'29 14° Ω06'35 22° Ω29'04 0° ጤ 13° ጤ51'04 0° ズ 14° ズ 21'55 21° ズ 38'06 19° ズ 00'21	1°43'11 1.35033 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node	5559 Aug 28 09:53 5559 Aug 31 17:50 5559 Sep 03 06:40 5559 Sep 10 07:09 5559 Sep 10 05:52 5559 Sep 13 00:44 5559 Sep 14 21:00 5559 Sep 17 23:21 5559 Oct 01 03:17 5559 Oct 03 12:45	23° N 25'16 0° M 5° M 15'51 20° M 20'41 20° M 13'45 26° M 09'22 0° £ 6° £ 16'33 0° M 3° M 48'11	1°39'10 1.33608 AU

ratra ara da	5550 Nov. 04 19:25	5° ₹ 07'51		ratra ara da	5560 Oct 17 10:42	18° M .06'07	
retrograde	5559 Nov 04 18:25	2° √ 29'01		retrograde	5560 Oct 17 10:42	15°M35'37	
evening set	5559 Nov 11 17:33 5559 Nov 14 12:35	2 x ·2901 30°RM		evening set min. Earth dist.	5560 Oct 24 14:45 5560 Oct 28 06:23	13 1163337 12°M34'16	0.62866 AU
min. Earth dist.	5559 Nov 15 13:06	28°M57'05	0.64592 AU	inferior conj	5560 Oct 31 01:27	9°M52'25	
inferior conj	5559 Nov 17 20:42	26°M27'11		minimum elong	5560 Oct 31 07:03	9°M38'51	
3	5559 Nov 18 00:30	26°M16'53	-2 09 38 2°08'26		5560 Nov 07 01:01	4°M41'53	3 12 09
minimum elong		20°M59'19	2-08-26	morning rise		4°M15'50	
morning rise	5559 Nov 24 08:44	20°M58'56		direct asc. node	5560 Nov 09 09:58	4°M19'11	
asc. node	5559 Nov 24 09:06	20°M25'11			5560 Nov 10 06:08		17°49'17
direct	5559 Nov 26 22:22		17057145	morning max el	5560 Nov 16 02:30	7°M42'01	1/491/
morning max el	5559 Dec 03 09:45	23°M50'23	17°56'45	. ,	5560 Nov 30 17:12	0° ⊀ ⁷	
. ,	5559 Dec 08 09:07	0°⊀ 20°⊀01'22		morning set	5560 Dec 02 05:21	2° ∡ ³39′25	
morning set	5559 Dec 20 18:10				5560 D 12 20 40	220 746101	0017144
	5559 Dec 26 17:43	0°る		superior conj	5560 Dec 13 20:49	22° х 46'01	0°17'44
desc. node	5559 Dec 30 12:00	6° ප 10'13		minimum elong	5560 Dec 13 22:33	22° x 53'17	0°17'30
	5560 1 00 00 00	10070400	000 (147	desc. node	5560 Dec 16 09:00	26° ₹ '55'59	
superior conj	5560 Jan 03 08:30	12°る24'00			5560 Dec 18 05:53	0°る	
minimum elong	5560 Jan 03 05:18	12° る 11'09	0°26'18	max. Earth dist.	5560 Dec 20 14:02	3° る 47'27	1.43816 AU
max. Earth dist.	5560 Jan 07 20:54	19° る 35'17	1.44933 AU	evening rise	5560 Dec 28 22:58	16° る 59'37	
	5560 Jan 14 12:33	0° ≈			5561 Jan 06 12:23	0° ≈	
evening rise	5560 Jan 19 12:21	7° ≈ 42'47		evening max el	5561 Jan 28 01:48	29° ≈ 07'23	21°11'24
greatest brilliancy	5560 Feb 03 02:48	29° ≈ 48′15	-0.6m		5561 Jan 28 23:04	0° ∀	
	5560 Feb 03 06:00	0° ∀		retrograde	5561 Feb 05 17:14	4° ℋ 14'24	
evening max el	5560 Feb 15 02:44		20°04'02	asc. node	5561 Feb 06 05:23	4° 升 13′02	
asc. node	5560 Feb 20 08:21	19°) 29′02		evening set	5561 Feb 09 21:17	2°) 36′40	
retrograde	5560 Feb 22 19:10	20°) 00′50			5561 Feb 12 11:25	30° Ŗ ≈	
evening set	5560 Feb 26 13:35	18°) 38′13		inferior conj	5561 Feb 15 05:17	26° ≈ 22'37	2°38'34
inferior conj	5560 Mar 02 22:47	12°) 35′42	3°07'06	minimum elong	5561 Feb 15 02:54	26° ≈ 30'51	2°37'57
minimum elong	5560 Mar 02 20:45	12°) (42′33	3°06'44	min. Earth dist.	5561 Feb 15 13:19	25° ≈ 54'50	0.67917 AU
min. Earth dist.	5560 Mar 03 19:49	11° ∺ 24'52	0.67279 AU	morning rise	5561 Feb 20 08:21	20° ≈ 09'46	
morning rise	5560 Mar 08 03:42	6° ∺ 21'00		direct	5561 Feb 25 14:22	17° ≈ 51'40	
direct	5560 Mar 13 23:59	3°) 44'13		morning max el	5561 Mar 08 02:32	24° ≈ 06'40	23°29'49
morning max el	5560 Mar 25 17:36	10° ¥ 45'14	24°58'23		5561 Mar 13 08:31	0° ∀	
desc. node	5560 Mar 27 11:15	12°) 34′37		desc. node	5561 Mar 14 08:16	1° ¥ 13′03	
	5560 Apr 10 01:09	0 ° Υ			5561 Apr 03 11:32	0 ° Υ	
	5560 Apr 28 22:33	$8^{\circ 0}$		morning set	5561 Apr 12 06:30	14° Ƴ 19'30	
morning set	5560 Apr 30 20:06	3° 8 20'51		max. Earth dist.	5561 Apr 16 06:46	21° Y 13'48	1.39037 AU
max. Earth dist.	5560 May 04 11:03	9° 8 55'29	1.36877 AU		5561 Apr 21 04:20	0°8	
superior conj	5560 May 10 21:38	22° 8 12'32	-1°10'10	superior conj	5561 Apr 23 19:12	4° 8 50'32	-1°37'42
minimum elong	5560 May 11 01:34	22° 8 31'52	1°09'33	minimum elong	5561 Apr 24 00:15	5° 8 14'11	1°37'07
	5560 May 14 19:40	$\Pi^{\circ}0$		evening rise	5561 May 03 02:29	22° 8 41'21	
asc. node	5560 May 18 07:38	7° Ⅲ 03′13		asc. node	5561 May 05 04:40	26° 8 43'19	
evening rise	5560 May 19 06:45	8° Ⅱ 59'27			5561 May 06 22:05	$\Pi^{\circ}0$	
	5560 May 30 20:49	0°€		evening max el	5561 May 19 08:26	18° Ⅱ 55'34	18°42'53
evening max el	5560 Jun 05 08:22	6° © 46'50	19°31'15	retrograde	5561 May 27 10:31	22° Ⅱ 54'36	
retrograde	5560 Jun 14 21:57	11° © 27'42					
evening set				evening set	5561 May 29 13:44	22° Ⅲ 38'57	
	5560 Jun 16 20:07	11° © 17'10		inferior conj	5561 May 29 13:44 5561 Jun 06 10:42	22° П 38'57 18° П 16'09	1°06'41
desc. node	5560 Jun 16 20:07 5560 Jun 23 10:29	11°©17'10 8°©30'25		-			1°06'41 1°05'51
desc. node inferior conj			-0°37'43	inferior conj	5561 Jun 06 10:42	18° Ⅱ 16′09	
	5560 Jun 23 10:29	8° © 30'25		inferior conj minimum elong	5561 Jun 06 10:42 5561 Jun 06 13:05	18°Д16'09 18°Д11'42	1°05'51
inferior conj	5560 Jun 23 10:29 5560 Jun 25 12:50	8° © 30'25 7° © 11'59		inferior conj minimum elong min. Earth dist.	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18	18°Д16'09 18°Д11'42 15°Д50'48	1°05'51
inferior conj minimum elong	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09	8°930'25 7°911'59 7°914'41	0°37'06	inferior conj minimum elong min. Earth dist. desc. node	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31	18°Д16'09 18°Д11'42 15°Д50'48 15°Д25'57	1°05'51
inferior conj minimum elong min. Earth dist.	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16	0°37'06	inferior conj minimum elong min. Earth dist. desc. node morning rise direct	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06	18°Д16'09 18°Д11'42 15°Д50'48 15°Д25'57 13°Д04'24	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise direct	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45	0°37'06	inferior conj minimum elong min. Earth dist. desc. node morning rise	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12	18°Д16'09 18°Д11'42 15°Д50'48 15°Д25'57 13°Д04'24 11°Д47'30	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17	8°530'25 7°511'59 7°514'41 5°537'16 2°536'45 1°547'48 8°550'21	0°37'06 0.55692 AU	inferior conj minimum elong min. Earth dist. desc. node morning rise direct	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06	18°Д16'09 18°Д11'42 15°Д50'48 15°Д25'57 13°Д04'24 11°Д47'30 19°Д19'37 0°©	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\$	0°37'06 0.55692 AU	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17	18°∏16'09 18°∏11'42 15°∏50'48 15°∏25'57 13°∏04'24 11°∏47'30 19°∏19'37 0°\$ 0°\$Ω	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55	8°930'25 7°911'59 7°914'41 5°937'16 2°936'45 1°947'48 8°950'21 0°N 12°N55'55	0°37'06 0.55692 AU	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57	18° Π16'09 18° Π11'42 15° Π50'48 15° Π25'57 13° Π04'24 11° Π47'30 19° Π19'37 0° © 0° Ω 2° Ω43'23	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\$	0°37'06 0.55692 AU	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17	18°∏16'09 18°∏11'42 15°∏50'48 15°∏25'57 13°∏04'24 11°∏47'30 19°∏19'37 0°\$ 0°\$Ω	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55	8°530'25 7°511'59 7°514'41 5°537'16 2°536'45 1°547'48 8°550'21 0°A 12°A55'55 20°A07'59	0°37'06 0.55692 AU	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57	18° Π16'09 18° Π11'42 15° Π50'48 15° Π25'57 13° Π04'24 11° Π47'30 19° Π19'37 0° © 0° Ω 2° Ω43'23	1°05'51 0.57320 AU
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48	8°530'25 7°511'59 7°514'41 5°537'16 2°536'45 1°547'48 8°550'21 0°A 12°A55'55 20°A07'59	0°37'06 0.55692 AU	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03	1°05'51 0.57320 AU 26°25'40
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$ 12°\$\Omega\$55'55 20°\$\Omega\$07'59 0°\$\Omega\$	0°37'06 0.55692 AU 24°55'44 1°29'32	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03 20° Ω04'39 19° Ω51'58	1°05'51 0.57320 AU 26°25'40 1°14'47 1°14'25
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48 5560 Aug 24 16:32 5560 Aug 24 16:32	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$ 12°\$\Omega\$55'55 20°\$\Omega\$00'59 0°\$\mathrm{m}\$	0°37'06 0.55692 AU 24°55'44	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42 5561 Aug 09 14:33	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03 20° Ω04'39 19° Ω51'58	1°05'51 0.57320 AU 26°25'40 1°14'47
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48 5560 Aug 24 16:32 5560 Aug 24 14:31 5560 Aug 26 05:04	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$ 12°\$\Omega\$55'55 20°\$\Omega\$07'59 0°\$\Omega\$ 5°\$\Omega\$10'53 4°\$\Omega\$59'49 8°\$\Omega\$30'05	0°37'06 0.55692 AU 24°55'44 1°29'32 1°29'18	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.	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42 5561 Aug 09 14:33 5561 Aug 13 16:43	18° 116'09 18° 111'42 15° 150'48 15° 125'57 13° 104'24 11° 147'30 19° 119'37 0° 00 2° 143'23 4° 155'03 20° 104'39 19° 151'58 21° 103'00 0° 10	1°05'51 0.57320 AU 26°25'40 1°14'47 1°14'25
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48 5560 Aug 24 16:32 5560 Aug 24 14:31 5560 Aug 26 05:04 5560 Aug 31 21:10	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$12°\$\Omega\$55'55 20°\$\Omega\$07'59 0°\$\mathred{m}\$59'49 8°\$\mathred{m}\$30'05 20°\$\mathred{m}\$31'11	0°37'06 0.55692 AU 24°55'44 1°29'32 1°29'18	inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42 5561 Aug 09 14:33 5561 Aug 13 16:43 5561 Aug 16 01:47	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03 20° Ω04'39 19° Ω51'58 21° Ω03'00	1°05'51 0.57320 AU 26°25'40 1°14'47 1°14'25
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	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48 5560 Aug 24 16:32 5560 Aug 24 14:31 5560 Aug 26 05:04 5560 Aug 31 21:10 5560 Sep 05 16:00	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$ 12°\$\Omega\$55'55 20°\$\Omega\$07'59 0°\$\mathred{m}\$ 5°\$\mathred{m}\$10'53 4°\$\mathred{m}\$59'49 8°\$\mathred{m}\$30'05 20°\$\mathred{m}\$31'11 0°\$\Omega\$	0°37'06 0.55692 AU 24°55'44 1°29'32 1°29'18	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.	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42 5561 Aug 09 14:33 5561 Aug 13 16:43 5561 Aug 16 01:47 5561 Aug 29 07:44	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03 20° Ω04'39 19° Ω51'58 21° Ω03'00 0° ™ 5° ™03'42 0° Ω	1°05'51 0.57320 AU 26°25'40 1°14'47 1°14'25
inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48 5560 Aug 24 16:32 5560 Aug 24 14:31 5560 Aug 26 05:04 5560 Aug 31 21:10 5560 Sep 05 16:00 5560 Sep 19 09:46	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$ 12°\$\Omega\$55'55 20°\$\Omega\$07'59 0°\$\mathred{m}\$ 5°\$\mathred{m}\$10'53 4°\$\mathred{m}\$59'49 8°\$\mathred{m}\$30'05 20°\$\mathred{m}\$31'11 0°\$\Omega\$23°\$\Omega\$15'08	0°37'06 0.55692 AU 24°55'44 1°29'32 1°29'18	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	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42 5561 Aug 09 14:33 5561 Aug 13 16:43 5561 Aug 16 01:47 5561 Aug 29 07:44 5561 Sep 06 06:48	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03 20° Ω04'39 19° Ω51'58 21° Ω03'00 0° ™ 5° ™03'42 0° Ω 11° Ω59'19	1°05'51 0.57320 AU 26°25'40 1°14'47 1°14'25 1.32039 AU
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	5560 Jun 23 10:29 5560 Jun 25 12:50 5560 Jun 25 11:09 5560 Jun 28 00:25 5560 Jul 03 23:37 5560 Jul 08 15:45 5560 Jul 22 16:17 5560 Aug 07 09:02 5560 Aug 14 06:55 5560 Aug 17 18:23 5560 Aug 22 07:48 5560 Aug 24 16:32 5560 Aug 24 14:31 5560 Aug 26 05:04 5560 Aug 31 21:10 5560 Sep 05 16:00	8°\$30'25 7°\$11'59 7°\$14'41 5°\$37'16 2°\$36'45 1°\$47'48 8°\$50'21 0°\$\Omega\$ 12°\$\Omega\$55'55 20°\$\Omega\$07'59 0°\$\mathred{m}\$ 5°\$\mathred{m}\$10'53 4°\$\mathred{m}\$59'49 8°\$\mathred{m}\$30'05 20°\$\mathred{m}\$31'11 0°\$\Omega\$	0°37'06 0.55692 AU 24°55'44 1°29'32 1°29'18 1.32610 AU	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	5561 Jun 06 10:42 5561 Jun 06 13:05 5561 Jun 09 17:18 5561 Jun 10 07:31 5561 Jun 14 09:06 5561 Jun 19 23:12 5561 Jul 04 08:00 5561 Jul 13 09:06 5561 Jul 30 20:17 5561 Aug 01 03:57 5561 Aug 02 05:01 5561 Aug 09 04:00 5561 Aug 09 01:42 5561 Aug 09 14:33 5561 Aug 13 16:43 5561 Aug 16 01:47 5561 Aug 29 07:44	18° ∏16'09 18° ∏11'42 15° ∏50'48 15° ∏25'57 13° ∏04'24 11° ∏47'30 19° ∏19'37 0° © 0° Ω 2° Ω43'23 4° Ω55'03 20° Ω04'39 19° Ω51'58 21° Ω03'00 0° ™ 5° ™03'42 0° Ω	1°05'51 0.57320 AU 26°25'40 1°14'47 1°14'25 1.32039 AU

retrograde	5561 Sep 29 19:37	0°M23'30		evening max el	5562 Aug 28 20:45	4° ≙ 45'17	26°03'36
retrograde	5561 Oct 02 19:03	ა 11 0 25 50 30° გ Ω		retrograde	5562 Sep 11 19:54	11° ⊆ 52'31	20 03 30
evening set	5561 Oct 06 20:17	28° ₽ 13'08		evening set	5562 Sep 18 05:15	10° ⊆ 14'08	
min. Earth dist.	5561 Oct 10 12:51	25° £ 32'56	0.60882 AU	min. Earth dist.	5562 Sep 22 09:32	7° ⊆ 39'04	0.58803 AU
inferior conj	5561 Oct 13 16:39	22° ≏ 51'54		inferior conj	5562 Sep 25 14:48	5° £ 16'12	
minimum elong	5561 Oct 13 23:05	22° ₽ 38'10		minimum elong	5562 Sep 25 19:46	5° £ 06'58	
morning rise	5561 Oct 21 03:55	18° Ω 02'13		morning rise	5562 Oct 03 12:32	0° £ 49'17	. 5, 52
direct	5561 Oct 23 11:11	17° Ω 41'07		direct	5562 Oct 05 21:39	0° £ 30′26	
asc. node	5561 Oct 28 03:11	19° ≙ 11'51		morning max el	5562 Oct 14 00:34	4° £ 25'21	18°31'52
morning max el	5561 Oct 30 16:35	21° Ω 16'52	18°00'33	asc. node	5562 Oct 15 00:14	5° £ 25'22	
	5561 Nov 06 07:24	0°M		morning set	5562 Oct 30 03:00	0°ML08'43	
morning set	5561 Nov 15 10:04	16°M07'03		8	5562 Oct 30 01:12	0° M	
S	5561 Nov 22 23:57	0° ∡ ″					
				superior conj	5562 Nov 08 00:04	17° M L06'54	1°19'32
superior conj	5561 Nov 25 11:24	4° ∡ °24'39	0°53'49	minimum elong	5562 Nov 08 03:36	17°ML23'18	1°19'10
minimum elong	5561 Nov 25 15:11	4° ∡ ¹41'15	0°53'19	S	5562 Nov 15 03:40	0° ∡ 7	
max. Earth dist.	5561 Dec 03 02:17	17° ∡ ¹27'30	1.42140 AU	max. Earth dist.	5562 Nov 15 09:15	0° ∡ 724'16	1.40118 AU
desc. node	5561 Dec 03 06:03	17° ∡ ′43'11		evening rise	5562 Nov 19 15:01	7° ∡ ³37'31	
evening rise	5561 Dec 08 20:36	26° ₹ 50'05		desc. node	5562 Nov 20 03:05	8° ∡ 127'47	
<i>8</i>	5561 Dec 10 20:36	0°8			5562 Dec 03 21:52	0°ප	
	5561 Dec 31 07:11	0° ≈		evening max el	5562 Dec 24 10:07	26° ට 24'24	23°47'46
evening max el	5562 Jan 10 19:44	12° ≈ 44'18	22°27'43	<i>y</i>	5562 Dec 28 12:01	0° ≈	
retrograde	5562 Jan 20 13:39	18° ≈ 32'00		retrograde	5563 Jan 04 06:59	2°≈48'56	
asc. node	5562 Jan 24 02:25	17° ≈ 26'54		evening set	5563 Jan 09 10:38	0° ≈ 40'30	
evening set	5562 Jan 25 04:50	16° ≈ 38'49		8	5563 Jan 10 04:30	30°Ŗる	
inferior conj	5562 Jan 30 13:22	10° ≈ 16'35	2°01'30	asc. node	5563 Jan 10 23:28	29° ට 11'29	
minimum elong	5562 Jan 30 11:06	10° ≈ 24'25	2°00'46	inferior conj	5563 Jan 14 21:09	24° ට 14'08	1°16'54
min. Earth dist.	5562 Jan 30 09:36	10° ≈ 29'37	0.68153 AU	minimum elong	5563 Jan 14 19:28	24° ට 19'51	1°16'16
morning rise	5562 Feb 04 17:15	4°≈06'56		min. Earth dist.	5563 Jan 14 06:19	25° ට 04'40	0.68012 AU
direct	5562 Feb 09 08:40	2° ≈ 11'01		morning rise	5563 Jan 20 04:19	18° ට 09'24	
morning max el	5562 Feb 18 14:32	7°≈36'06	22°01'51	direct	5563 Jan 24 05:53	16° පි 36'06	
desc. node	5562 Mar 01 05:17	20°≈32'55		morning max el	5563 Feb 01 08:49	21° ට 15'46	20°42'03
	5562 Mar 07 21:46	0°) €			5563 Feb 08 16:40	0° ≈	
morning set	5562 Mar 23 13:01	23°) 58'44		desc. node	5563 Feb 16 02:20	10°≈22'20	
	5562 Mar 27 05:39	0°Υ			5563 Mar 01 03:33	0°) €	
max. Earth dist.	5562 Mar 29 04:46	3° Y 15'47	1.41214 AU	morning set	5563 Mar 02 17:46	2°) €28'13	
				max. Earth dist.	5563 Mar 11 09:30	16° ¥ 11'55	1.43128 AU
superior conj	5562 Apr 05 22:27	16° Ƴ 35'03	-1°59'07			. , ,	
minimum elong	5562 Apr 06 02:56	16° Y ′54'52		superior conj	5563 Mar 18 02:34	27°) 15′22	-2°09'15
	5562 Apr 13 08:03	0°8		minimum elong	5563 Mar 18 03:22	27°) 18'46	
evening rise	5562 Apr 16 11:00	5° 8 47'37			5563 Mar 19 17:37	0° Υ	
asc. node	5562 Apr 22 01:42	16° 8 04'48		evening rise	5563 Mar 30 04:00	18° Ƴ 08'12	
	5562 May 01 03:46	0°П			5563 Apr 05 22:17	0°8	
evening max el	5562 May 02 16:13	1° Ⅱ 37'30	18°14'50	asc. node	5563 Apr 08 22:45	5° 8 00'53	
retrograde	5562 May 09 17:53	5° Ⅱ 10'06		evening max el	5563 Apr 16 04:12	14° 8 43'01	18°06'26
evening set	5562 May 12 04:07	4° Ⅱ 45'51		retrograde	5563 Apr 22 16:50	18° 8 04'57	
inferior conj	5562 May 19 06:10	0° П 02'51	2°21'38	evening set	5563 Apr 25 09:52	17° 8 29'45	
minimum elong	5562 May 19 09:36	29° 8 55'22	2°20'43	inferior conj	5563 May 01 20:33	12° 8 26'38	3°07'01
	5562 May 19 07:28	30°R₩		minimum elong	5563 May 01 23:04	12° 8 20'19	3°06'34
min. Earth dist.	5562 May 22 16:00	27° 8 05'59	0.59413 AU	min. Earth dist.	5563 May 04 22:15	9° 8 23'17	0.61625 AU
morning rise	5562 May 26 12:12	24° 8 21'41		morning rise	5563 May 08 10:23	6° 8 27'02	
desc. node	5562 May 28 04:32	23° 8 30'48		direct	5563 May 15 04:56	4° 8 04'50	
direct	5562 Jun 01 20:31	22° 8 30'30		desc. node	5563 May 15 01:33	4° 8 04'54	
	5562 Jun 15 20:57	0°II		morning max el	5563 May 29 09:27	12° 8 04'26	27°52'48
morning max el	5562 Jun 16 05:40	0° Ⅲ 21'15	27°27'24	morning man er	5563 Jun 12 13:25	0°II	2, 52.0
morning man er	5562 Jul 07 10:18	0.2 2111	2, 2, 2.		5563 Jun 29 18:04	0°ಅ	
morning set	5562 Jul 17 12:53	19° © 31'52		morning set	5563 Jul 01 16:04	3°952'29	
asc. node	5562 Jul 19 00:59	22° © 42'18		asc. node	5563 Jul 05 22:03	12°9547'56	
use. Houe	5562 Jul 22 09:55	0°Ω		max. Earth dist.	5563 Jul 07 10:40	16°905'42	1.32170 AU
max. Earth dist.	5562 Jul 24 01:41	3° Ω 38'47	1.31890 AU		0, 10.10	00 12	
		2 0000 17		superior conj	5563 Jul 09 02:00	19°540'10	0°32'26
superior conj	5562 Jul 24 15:44	4° Ω 56'19	0°55'34	minimum elong	5563 Jul 09 00:34	19° © 32'22	0°32'07
minimum elong	5562 Jul 24 13:38	4° Ω 44'44	0°55'09	minimum clong	5563 Jul 13 19:11	0°Ω	3 3201
evening rise	5562 Jul 31 10:47	19° Ω 46'57	3 33 07	evening rise	5563 Jul 15 22:07	4° Ω 34'31	
evening 1150	5562 Aug 05 10:20	0° Mg		evening 1150	5563 Jul 29 09:22	0°M)	
desc. node	•			avaning may al			24020115
uesc. Houe	5562 Aug 24 03:50 5562 Aug 24 09:28	29° ™ 43'24 0° ₽		evening max el desc. node	5563 Aug 10 11:58 5563 Aug 11 00:50	15° Mp 33'17 16° Mp 03'40	24°39'15
	5502 Aug 24 09.28	0 ==		desc. Hour	5505 Aug 11 00.50	10 IJUS 40	

retrograde	5563 Aug 24 09:02	22° m/32'59		evening max el	5564 Jul 22 00:28	25° Ω 54'41	23°01'58
evening set	5563 Aug 29 13:54	21° m/32'18		evening max er	5564 Jul 27 03:10	0° M)	23 01 38
min. Earth dist.	5563 Sep 03 23:14	18° m) 43'47	0.56886 AU	desc. node	5564 Jul 27 21:51	ريات 0° ا% 27′44	
inferior conj	5563 Sep 06 17:13	16° Mp 57'29		retrograde	5564 Aug 04 09:17	2° mp 35'18	
minimum elong	5563 Sep 06 17:17	16° m 57'24		evening set	5564 Aug 08 01:48	2° mp 05'35	
morning rise	5563 Sep 14 23:00	12° m/52'08	0 20 11	evening sec	5564 Aug 13 05:08	30°RΩ	
direct	5563 Sep 17 13:50	12° m/33'09		min. Earth dist.	5564 Aug 15 09:13	28° Ω 48'09	0.55449 AU
morning max el	5563 Sep 26 23:02	16° m) 57'45	19°24'39	inferior conj	5564 Aug 17 00:07	27° Ω 51'55	
asc. node	5563 Oct 01 21:17	22° m/44'48		minimum elong	5564 Aug 16 17:38	28° Ω 01'19	
	5563 Oct 06 12:04	0∘ <u>⊽</u>		morning rise	5564 Aug 25 11:40	24° Ω 01'02	
morning set	5563 Oct 14 04:21	14° £ 34'11		direct	5564 Aug 28 11:24	23° Ω 39'55	
	5563 Oct 21 21:43	0° M .		morning max el	5564 Sep 08 09:29	28° Ω 44'53	20°39'23
					5564 Sep 09 16:03	0° m	
superior conj	5563 Oct 22 05:29	0°M37'59	1°35'20	asc. node	5564 Sep 17 18:20	10° m 54'50	
minimum elong	5563 Oct 22 07:42	0° M .48′52	1°35'11	morning set	5564 Sep 27 11:10	29° m 14'35	
max. Earth dist.	5563 Oct 28 14:08	12°M42'16	1.38008 AU		5564 Sep 27 19:59	0∘ ⊽	
evening rise	5563 Nov 01 08:13	19° M 27'01					
desc. node	5563 Nov 07 00:08	29°MJ06'11		superior conj	5564 Oct 04 22:54	14° ≏ 43'49	1°42'29
	5563 Nov 07 13:12	0° ∡ ¹		minimum elong	5564 Oct 04 23:35	14° ≏ 47'18	1°42'28
	5563 Nov 28 01:44	0°ರ		max. Earth dist.	5564 Oct 09 21:59	24° ≏ 38′00	1.36036 AU
evening max el	5563 Dec 06 23:03	10° る 08'27	25°04'51		5564 Oct 12 17:19	0° M	
retrograde	5563 Dec 18 20:02	17° る 00'55		evening rise	5564 Oct 13 21:15	2°M10'22	
evening set	5563 Dec 24 13:05	14° る 38'29		desc. node	5564 Oct 23 21:09	19°M33'14	
asc. node	5563 Dec 28 20:30	9° ට 51'43			5564 Oct 30 14:04	0° ∡	
min. Earth dist.	5563 Dec 29 01:05	9° ප 36'51	0.67512 AU	evening max el	5564 Nov 18 11:50	23° ₹ 52'24	26°11'45
inferior conj	5563 Dec 30 02:50	8° る 12'35	0°25'36		5564 Nov 26 18:56	5°0	
minimum elong	5563 Dec 30 02:12	8° ප 14'39	0°25'21	retrograde	5564 Dec 01 04:02	1° る 02'19	
morning rise	5564 Jan 04 15:33	2° ප 14'51			5564 Dec 05 04:47	30°₹ ҂ 7	
direct	5564 Jan 08 04:38	1°る02'27		evening set	5564 Dec 07 10:25	28° ≯ 28'40	
morning max el	5564 Jan 15 11:01	5° ට 06'47	19°35'17	min. Earth dist.	5564 Dec 11 15:29	24° ₰ 02'16	0.66654 AU
greatest brilliancy	5564 Jan 28 11:26	22° る 16'51	-0.7m	inferior conj	5564 Dec 13 04:32	22° ₹ 08'08	-0°31'31
desc. node	5564 Feb 02 23:22	0° ≈ 33'18		minimum elong	5564 Dec 13 05:23	22° ₹ 05'31	0°31'08
	5564 Feb 02 14:36	0° ≈		asc. node	5564 Dec 14 17:32	20° ≯ 16′25	
morning set	5564 Feb 09 14:32	10° ≈ 43'23		morning rise	5564 Dec 19 00:54	16° ∡ 19'57	
	5564 Feb 21 22:44	0° ₩		direct	5564 Dec 22 03:13	15° ₹ 25'25	
max. Earth dist.	5564 Feb 21 21:51	29° ≈ 56′30	1.44535 AU	morning max el	5564 Dec 28 20:31	19° ∡ 06'16	18°44'00
					5565 Jan 06 07:25	0°る	
superior conj	5564 Feb 26 05:16	6° ¥ 48'53		morning set	5565 Jan 19 04:11	19° る 55'55	
minimum elong	5564 Feb 25 23:43	6° ∺ 26'38	2°02'12	desc. node	5565 Jan 19 20:24	20° る 59'41	
evening rise	5564 Mar 11 01:05	29°) ₹35'05		n at it a	5565 Jan 25 13:57	0° ≈	1 45060 444
	5564 Mar 11 07:00	0° Υ		max. Earth dist.	5565 Feb 03 15:39	14° ≈ 13′04	1.45268 AU
asc. node	5564 Mar 25 19:46	23° Y 23'30	10016153		5565 F. L. O. 12.22	1.50 2.4122	1025150
evening max el	5564 Mar 29 17:09	28° Y 03'37	18°16'53	superior conj	5565 Feb 04 12:22	15°≈34'23	
ratra ara da	5564 Mar 31 23:39	0° 呂 1° 呂 29'16		minimum elong	5565 Feb 04 02:54 5565 Feb 13 15:43	14° ≈ 57'16 0° ¥	1-34-33
retrograde evening set	5564 Apr 05 03:00 5564 Apr 08 02:27	0° 8 41'47		evening rise	5565 Feb 19 23:10	0 X 10° ¥ 05'01	
evening set	5564 Apr 09 05:40	0 041 47 30°RΥ		greatest brilliancy	5565 Feb 27 04:48	21° X 42'13	-0.9m
inferior conj	5564 Apr 14 01:47	25° Y 19'34	3°28'10	greatest offinalicy	5565 Mar 04 11:45	0°Υ	-0.9111
minimum elong	5564 Apr 14 02:44	25° Υ 16'54		asc. node	5565 Mar 12 16:47	11° Υ '02'37	
min. Earth dist.	5564 Apr 16 13:29	22° Υ 32'23	0.63682 AU	evening max el	5565 Mar 13 04:23	11° Y 32'46	18°45'27
morning rise	5564 Apr 20 02:00	19° Υ 10'03	0.03002710	retrograde	5565 Mar 19 20:20	15° Υ 14'57	10 13 27
direct	5564 Apr 26 21:57	16° Y 27'38		evening set	5565 Mar 23 02:23	14° Υ 14'23	
desc. node	5564 Apr 30 22:35	17° Y 16'47		inferior conj	5565 Mar 28 17:58	8° Υ 34'45	3°30'45
morning max el	5564 May 10 17:37	24° Y 26'43	27°40'45	minimum elong	5565 Mar 28 17:26	8° Υ 36'23	3°30'43
morning man or	5564 May 15 18:03	0°8	27 10 10	min. Earth dist.	5565 Mar 30 14:02	6°Υ19'16	0.65403 AU
	5564 Jun 04 23:01	0°II		morning rise	5565 Apr 03 07:59	2° Υ 20'41	0.00 .00 110
morning set	5564 Jun 14 12:08	17° Ⅱ 48'44		<i>3</i>	5565 Apr 07 03:48	30° ₹	
max. Earth dist.	5564 Jun 19 13:36	28° Ⅱ 11'18	1.32899 AU	direct	5565 Apr 09 22:09	29°) (31'17	
	5564 Jun 20 10:11	0°9			5565 Apr 12 20:13	0°Υ	
asc. node	5564 Jun 21 19:03	2° © 55'11		desc. node	5565 Apr 17 19:36	2° Y '38'53	
				morning max el	5565 Apr 23 03:47	7° Y 19′20	26°55'48
superior conj	5564 Jun 22 08:52	4° © 09'14	0°05'59		5565 May 10 16:38	0°8	
minimum elong	5564 Jun 22 08:34	4°907'40	0°05'54		5565 May 28 06:58	0°Щ	
behind sun begin	5564 Jun 22 03:35	3°540'51		morning set	5565 May 28 22:07	1° Ⅱ 12'21	
behind sun end	5564 Jun 22 13:34	4°534'30		max. Earth dist.	5565 Jun 02 07:04	9° ∏ 48'14	1.34095 AU
evening rise	5564 Jun 29 09:51	19° © 19'11					
	5564 Jul 04 15:07	$0^{\circ}\Omega$		superior conj	5565 Jun 06 10:16	18° Ⅱ 17'37	-0°22'57
				=			

minimum elong	5565 Jun 06 11:29	18° Ⅱ 24'03	0°22'43	superior conj	5566 May 21 03:34	1° ∏ 57'44	-0°53'03
asc. node	5565 Jun 08 16:05	23° I I00'24	o .5	minimum elong	5566 May 21 06:33	2° Ⅱ 12'43	0°52'32
	5565 Jun 11 23:22	0ಂತಿ		asc. node	5566 May 26 13:06	12° ∏ 59'08	
evening rise	5565 Jun 13 20:05	3°955'10		evening rise	5566 May 29 02:44	18° Ⅱ 15'37	
S	5565 Jun 28 08:31	$0^{\circ}\Omega$		C	5566 Jun 04 01:45	0ಂತಾ	
evening max el	5565 Jul 03 18:24	6° Ω 23'13	21°27'47	evening max el	5566 Jun 16 00:03	17° 5 26'24	20°08'15
desc. node	5565 Jul 14 18:51	12° Ω 22'24		retrograde	5566 Jun 26 13:50	22° © 37'11	
retrograde	5565 Jul 15 23:45	12° Ω 25'51		evening set	5566 Jun 28 11:56	22° 5 27'39	
evening set	5565 Jul 18 10:21	12° Ω 12'11		desc. node	5566 Jul 01 15:51	21° © 34'05	
inferior conj	5565 Jul 27 18:26	8° Ω 12′29	-3°39'10	inferior conj	5566 Jul 07 13:52	18° © 28'42	-1°46'09
minimum elong	5565 Jul 27 09:34	8° Ω 24'53	3°36'36	minimum elong	5566 Jul 07 08:54	18° 5 36'04	1°44'20
min. Earth dist.	5565 Jul 27 19:03	8° Ω 11'37	0.54793 AU	min. Earth dist.	5566 Jul 09 07:00	17° © 27'29	0.55091 AU
morning rise	5565 Aug 05 09:46	4° Ω 19'28		morning rise	5566 Jul 16 04:23	14° © 12'32	
direct	5565 Aug 08 20:53	3° £ 53′32		direct	5566 Jul 20 08:05	13° © 34'59	
morning max el	5565 Aug 21 08:15	9° Ω 46'40	22°13'03	morning max el	5566 Aug 02 23:24	20° © 15'45	23°56'55
asc. node	5565 Sep 04 15:22	29° Ω 43'31			5566 Aug 11 06:05	0°N	
	5565 Sep 04 18:58	0° Mp		asc. node	5566 Aug 22 12:24	19° Ω 01'08	
morning set	5565 Sep 11 21:17	14° m 03'48		morning set	5566 Aug 27 08:55	28° Ω 56'29	
	55(5 C 10 00:41	200 m 12147	1942117		5566 Aug 27 20:53	0° m y	
superior conj minimum elong	5565 Sep 19 00:41	29° Mp 13'47	1°42'16 1°42'15	aumariar aani	5566 San 02 09:00	120 m 50112	1°35'47
minimum eiong	5565 Sep 19 00:01 5565 Sep 19 09:27	29° Mp 10'14 0° <u> </u>	1 42 13	superior conj minimum elong	5566 Sep 03 08:00 5566 Sep 03 06:21	13° mp 59'13 13° mp 50'15	1°35'39
max. Earth dist.	5565 Sep 22 13:04	0 == 6° £ 33'23	1.34379 AU	max. Earth dist.	5566 Sep 05 12:45	18° Mp 43'03	1.33127 AU
evening rise	5565 Sep 27 02:02	15° 2 37'23	1.54579 AU	evening rise	5566 Sep 10 18:38	29° Mp 37'45	1.33127 AU
evening rise	5565 Oct 04 21:45	0° ™		evening rise	5566 Sep 10 23:03	27 الإي م 0° ي	
desc. node	5565 Oct 10 18:09	9° M 43'16		desc. node	5566 Sep 27 15:09	29° ₽ 29'00	
acse. noae	5565 Oct 25 04:13	0° ∡ 7		dese. node	5566 Sep 27 23:18	0°M	
evening max el	5565 Nov 01 00:32	7° ∡ 128'15	27°01'03	evening max el	5566 Oct 14 12:14	20°M46'01	27°25'49
retrograde	5565 Nov 14 06:30	14° ≯ ¹46′06		retrograde	5566 Oct 28 03:01	28°M04'12	
evening set	5565 Nov 21 00:36	12° ∡ ¹06'35		evening set	5566 Nov 04 05:01	25°M27'17	
min. Earth dist.	5565 Nov 24 23:14	8° ∡ 15′28	0.65442 AU	min. Earth dist.	5566 Nov 07 22:24	22°M09'16	0.63889 AU
inferior conj	5565 Nov 27 00:06	5° ₹ 56'29	-1°33'12	inferior conj	5566 Nov 10 11:08	19°M32'39	-2°37'21
minimum elong	5565 Nov 27 02:47	5° ∡ ¹48'50	1°32'04	minimum elong	5566 Nov 10 15:46	19° M 20'41	2°35'35
asc. node	5565 Dec 01 14:35	1° ≯ 21'51		morning rise	5566 Nov 17 04:02	14°M12'00	
morning rise	5565 Dec 03 06:01	0° ≯ 20′35		asc. node	5566 Nov 18 11:38	13°M48'29	
	5565 Dec 04 01:46	30°RM		direct	5566 Nov 19 15:13	13°M41'52	
direct	5565 Dec 05 23:34	29°M40'12		morning max el	5566 Nov 26 04:04	17°M06'38	17°51'24
	5565 Dec 07 21:44	0°⊀			5566 Dec 05 10:33	0° ∡	
morning max el	5565 Dec 12 11:09		18°09'08	morning set	5566 Dec 12 21:11	12° ∡ ³37′06	
morning set	5565 Dec 30 22:53	0° る 36'06			5566 Dec 23 04:21	0° ろ	
	5565 Dec 30 14:04	0° ろ		desc. node	5566 Dec 24 14:26	2° る 20'04	
desc. node	5566 Jan 06 17:25	11° る 36'25			5566 D	40-700101	0007111
	5566 1 14 17 05	240 720122	0053146	superior conj	5566 Dec 25 14:54	4°る00'01	
superior conj	5566 Jan 14 17:05	24°₹20'23		minimum elong	5566 Dec 25 14:05 5566 Dec 25 05:08	3°₹56'43	0°07'03
minimum elong max. Earth dist.	5566 Jan 14 10:31 5566 Jan 17 11:09	23°る54'25 28°る40'23	0°52'53 1.45259 AU	behind sun begin behind sun end	5566 Dec 25 23:02	3°る20'10 4°る33'12	
max. Earm dist.	5566 Jan 18 07:26	28 3 40 23 0° ≈	1.43239 AU	max. Earth dist.	5566 Dec 31 05:21	4 033 12 13° る 01'03	1.44528 AU
evening rise	5566 Jan 30 23:22	0 ∞ 19°≈44'17		evening rise	5567 Jan 10 10:37	13 さ 01 03	1.44326 AU
evening rise	5566 Feb 06 14:18	0°) €		evening rise	5567 Jan 11 02:41	0°≈	
greatest brilliancy	5566 Feb 12 12:18	9° ₩ 02'32	-0.7m		5567 Jan 31 11:03	0° ∀	
evening max el	5566 Feb 24 11:44	25°) (05'10	19°30'59	evening max el	5567 Feb 07 13:57	8° ¥ 39'22	20°31'19
asc. node	5566 Feb 27 13:49	27°) (45'00		asc. node	5567 Feb 14 10:52	13°) 16′22	
retrograde	5566 Mar 03 17:29	29°) 14'40		retrograde	5567 Feb 15 15:48	13°) €24'07	
evening set	5566 Mar 07 06:57	28°) 00′24		evening set	5567 Feb 19 14:02	11°) 55'20	
inferior conj	5566 Mar 12 17:45	22°) €05'25	3°19'05	inferior conj	5567 Feb 24 22:29	5°) 47′33	2°56'09
minimum elong	5566 Mar 12 16:08	22°) 10′45	3°18'53	minimum elong	5567 Feb 24 20:15	5° ¥ 55'11	2°55'40
min. Earth dist.	5566 Mar 13 22:49	20° ∺ 29'57	0.66712 AU	min. Earth dist.	5567 Feb 25 13:53	4°) 54′53	0.67597 AU
morning rise	5566 Mar 18 01:02	15° ¥ 50′08			5567 Mar 01 14:52	30° R ≈	
direct	5566 Mar 24 04:38	13°) €05'54		morning rise	5567 Mar 02 02:15	29° ≈ 33'11	
desc. node	5566 Apr 04 16:38	19°) 37′14		direct	5567 Mar 07 16:33	27° ≈ 03'30	
morning max el	5566 Apr 05 13:33	20° ∺ 29'06	25°45'58		5567 Mar 14 16:39	0° ∀	
	5566 Apr 13 18:00	0°Υ		morning max el	5567 Mar 18 22:13	3°) 46'46	24°21'10
	5566 May 03 20:24	0°8		desc. node	5567 Mar 22 13:41	7°) (45'01	
morning set	5566 May 11 17:57	13° 8 51'23	1 25545 : **	•	5567 Apr 07 23:59	0°Υ 25° Ω 21121	
max. Earth dist.	5566 May 15 13:03		1.35745 AU	morning set	5567 Apr 23 18:19	25° Y 31′21	
	5566 May 20 04:05	Π $^{\circ}$ 0		mov E-st- U t	5567 Apr 26 07:14	0°8	1 27771 ***
				max. Earth dist.	5567 Apr 27 10:04	2° 8 00'29	1.37771 AU

						00	
superior conj	5567 May 04 09:31	15° 8 01'22			5568 Mar 31 01:51	0° Υ	
minimum elong	5567 May 04 14:04	15° 8 23'12	1°21'42	morning set	5568 Apr 03 17:14	5° Y 56'35	
	5567 May 12 00:22	Π °0		max. Earth dist.	5568 Apr 08 05:40	13° Ƴ 33'23	1.39975 AU
evening rise	5567 May 13 03:19	2° Ⅱ 13'37					
asc. node	5567 May 13 10:07	2° Ⅱ 47'18		superior conj	5568 Apr 15 23:58	27° Ƴ 18'19	
evening max el	5567 May 29 18:13	29° Ⅱ 12'53	19°08'13	minimum elong	5568 Apr 16 05:04	27° Ƴ 41'38	1°47'19
	5567 May 30 14:24	0 \circ ∞			5568 Apr 17 11:11	0° 8	
retrograde	5567 Jun 07 15:33	3° © 33'58		evening rise	5568 Apr 25 18:45	15° 8 41'20	
evening set	5567 Jun 09 15:16	3° 5 21'50		asc. node	5568 Apr 29 07:10	22° 8 20'12	
	5567 Jun 16 18:16	30°Ŗ Ⅱ			5568 May 03 13:26	Π \circ 0	
inferior conj	5567 Jun 17 23:54	29° Ⅱ 10′16	0°09'38	evening max el	5568 May 11 22:08	11° Ⅱ 37'37	18°28'36
minimum elong	5567 Jun 18 00:18	29° Ⅱ 09'36	0°09'28	retrograde	5568 May 19 12:09	15° Ⅲ 23′00	
transit middle	5567 Jun 18 00:18	29° Ⅲ 09'36	0°09'28	evening set	5568 May 21 18:30	15° Ⅱ 03'56	
transit begin	5567 Jun 17 21:13	29° Ⅱ 14'49		inferior conj	5568 May 29 07:05	10° Ⅲ 32'42	1°42'17
transit end	5567 Jun 18 03:22	29° Ⅲ 04′22		minimum elong	5568 May 29 10:14	10° Ⅲ 26′24	1°41'16
desc. node	5567 Jun 18 12:54	28° Ⅱ 48′06		min. Earth dist.	5568 Jun 01 16:51	7° Ⅱ 51'14	0.58174 AU
min. Earth dist.	5567 Jun 20 21:53	27° Ⅱ 11'58	0.56305 AU	desc. node	5568 Jun 04 09:56	5° Ⅱ 59'04	
morning rise	5567 Jun 26 06:08	24° Ⅱ 19'01		morning rise	5568 Jun 05 22:47	5° Ⅱ 07'36	
direct	5567 Jul 01 07:50	23° Ⅱ 19'05		direct	5568 Jun 11 21:42	3° Ⅲ 36′15	
	5567 Jul 14 21:38	0°©		morning max el	5568 Jun 26 06:55	11° I I16'56	26°55'59
morning max el	5567 Jul 15 13:07	0°936'27	25°36'32		5568 Jul 10 19:34	0ంత	
	5567 Aug 04 23:47	$0^{\circ}\Omega$		morning set	5568 Jul 26 06:04	28°930'38	
asc. node	5567 Aug 09 09:25	8° Ω 39'30		asc. node	5568 Jul 26 06:27	28°932'38	
morning set	5567 Aug 11 20:22	13° Ω 46'58		use. Houe	5568 Jul 26 22:58	0° Ω	
morning sec	3307 Hug 11 20.22	15 00 10 50			2300 341 20 22.30	o 00	
superior conj	5567 Aug 18 18:31	28° Ω 51'55	1°23'51	superior conj	5568 Aug 02 06:21	13° Ω 45'54	1°07'09
minimum elong	5567 Aug 18 16:19	28° Ω 39'50	1°23'34	minimum elong	5568 Aug 02 04:04	13°Ω33'21	1°06'46
minimum ciong	5567 Aug 19 06:54	0°m)	1 23 34	max. Earth dist.	5568 Aug 02 04:04 5568 Aug 02 06:17	$13^{\circ} \Omega 45'36$	1.31929 AU
max. Earth dist.	5567 Aug 19 19:31	1° m y09'10	1.32312 AU	evening rise	5568 Aug 09 02:29	28° Ω 39'52	1.31929 AU
	•	-	1.32312 AU	evening rise	•	0° m)	
evening rise	5567 Aug 25 19:40	14°Mp01'13 0°Ω			5568 Aug 09 17:43	0∘ ত اللا	
11-	5567 Sep 03 00:33			44-	5568 Aug 26 08:33		
desc. node	5567 Sep 14 12:11	18° Ω 39'36		desc. node	5568 Aug 31 09:12	7° ♀ 00'48	26940145
	5567 Sep 23 09:59	0°M	27020107	evening max el	5568 Sep 07 23:44	15° £ 34'43	26°40'45
evening max el	5567 Sep 26 20:53	3°M32'16	2/°20'0/	retrograde	5568 Sep 21 21:46	22° £ 43'20	
retrograde	5567 Oct 10 16:35	10°M46'03		evening set	5568 Sep 28 17:32	20° £ 45'39	0.60005.477
evening set	5567 Oct 17 20:09	8°M22'49	0.60041.477	min. Earth dist.	5568 Oct 02 13:36	18° 2 09'38	0.60005 AU
min. Earth dist.	5567 Oct 21 11:22		0.62041 AU	inferior conj	5568 Oct 05 19:01	15° 2 34'26	
inferior conj	5567 Oct 24 10:36	2°M₄48′20		minimum elong	5568 Oct 06 01:12	15° ≏ 21'58	4°34'40
minimum elong	5567 Oct 24 16:45	2°M34'12	3°38'30	morning rise	5568 Oct 13 10:56	10° ≙ 53'52	
	5567 Oct 27 16:46	30° ₹ Ω		direct	5568 Oct 15 18:36	10° △ 33'57	
morning rise	5567 Oct 31 15:12	27° Ω 46'08		asc. node	5568 Oct 22 05:44	13° ≏ 17'24	
direct	5567 Nov 02 22:54	27° ≏ 22'38		morning max el	5568 Oct 23 07:56	14° ≏ 16'39	18°11'13
asc. node	5567 Nov 05 08:42	27° ≏ 48'47			5568 Nov 03 01:48	0°M₊	
	5567 Nov 08 21:30	0° M		morning set	5568 Nov 08 03:05	9°M22'12	
morning max el	5567 Nov 09 20:06	0° ™ 52'15	17°51'39				
morning set	5567 Nov 25 16:36	25°M38'25		superior conj	5568 Nov 17 15:12	27°M02'09	1°05'59
	5567 Nov 28 02:47	0° ⊀		minimum elong	5568 Nov 17 19:04	27° ™ 19'35	1°05'32
					5568 Nov 19 06:53	0° ∡ 7	
superior conj	5567 Dec 06 14:36	14° ∡ ′55′01	0°34'15	max. Earth dist.	5568 Nov 25 06:34	10° ∡ ′23'33	1.41319 AU
minimum elong	5567 Dec 06 17:33	15° ∡ '07'39	0°33'51	desc. node	5568 Nov 27 08:29	13° ∡ 52′50	
desc. node	5567 Dec 11 11:27	23° ∡ ¹06'38		evening rise	5568 Nov 30 06:03	18° ∡ ³38′26	
max. Earth dist.	5567 Dec 13 20:16	26° ₹ 59'55	1.43162 AU		5568 Dec 07 10:47	0°ಕ	
	5567 Dec 15 16:44	0°ප			5568 Dec 28 20:45	0°≈	
evening rise	5567 Dec 21 00:13	8° る 25'19		evening max el	5569 Jan 03 03:06	5° ≈ 53'17	23°01'43
	5568 Jan 04 08:12	0° ≈		retrograde	5569 Jan 13 08:22	11° ≈ 56'42	
evening max el	5568 Jan 21 10:48	22° ≈ 15′05	21°43'09	evening set	5569 Jan 18 04:49	9° ≈ 56'54	
retrograde	5568 Jan 30 13:17	27° ≈ 39'16		asc. node	5569 Jan 18 04:58	9° ≈ 56'35	
asc. node	5568 Feb 01 07:55	27° ≈ 22'30		min. Earth dist.	5569 Jan 23 05:32	4° ≈ 02'01	0.68145 AU
evening set	5568 Feb 03 21:51	25° ≈ 55'12		inferior conj	5569 Jan 23 14:03	3° ≈ 32'39	1°43'26
inferior conj	5568 Feb 09 05:54	19° ≈ 37'27	2°23'51	minimum elong	5569 Jan 23 11:59	3° ≈ 39'46	1°42'42
minimum elong	5568 Feb 09 03:31	19° ≈ 45'44	2°23'08	-	5569 Jan 26 06:31	30°Rる	
min. Earth dist.	5568 Feb 09 08:53	19° ≈ 27'05	0.68067 AU	morning rise	5569 Jan 28 19:04	27° පි 25'04	
morning rise	5568 Feb 14 09:00	13° ≈ 25'44		direct	5569 Feb 02 04:33	25° ට 38'46	
direct	5568 Feb 19 08:53	11° ≈ 16'32			5569 Feb 10 04:30	0° ≈	
morning max el	5568 Feb 29 07:49	17° ≈ 10′09	22°51'44	morning max el	5569 Feb 10 22:04	0° ≈ 42'53	21°26'31
desc. node	5568 Mar 08 10:43	26° ≈ 42'24		desc. node	5569 Feb 23 07:45	16° ≈ 15'33	
	5568 Mar 10 22:20	0°) €			5569 Mar 04 17:50	0°) €	

morning set	5569 Mar 14 11:39	15° ₩ 01'33			5570 Feb 25 17:51	0° ∀	
max. Earth dist.	5569 Mar 21 06:42 5569 Mar 23 16:33	25° ¥ 59'47 0° Υ	1.42078 AU	max. Earth dist.	5570 Mar 03 15:13	9° ∺ 19'34	1.43799 AU
				superior conj	5570 Mar 09 11:05	18°) 47'01	-2°08'44
superior conj	5569 Mar 28 17:53	8° Ƴ 36′07		minimum elong	5570 Mar 09 09:21	18° ∺ 39'51	2°08'42
minimum elong	5569 Mar 28 21:14	8° Y 50'38	2°05'00		5570 Mar 16 04:07	0° Υ	
evening rise	5569 Apr 08 21:10	28° Y 28'51		evening rise	5570 Mar 22 06:16	10° Y 27'42	
aga mada	5569 Apr 09 17:12	0° と 11° と 31'22		asc. node	5570 Apr 02 21:31 5570 Apr 03 01:15	0°8 0°814'08	
asc. node evening max el	5569 Apr 16 04:13 5569 Apr 25 08:05	24° 8 29'58	18°08'54	evening max el	5570 Apr 08 20:44	7° 8 42'03	18°08'32
retrograde	5569 May 02 02:48	24 8 2938	16 06 34	retrograde	5570 Apr 15 07:11	11° 8 04'16	10 00 32
evening set	5569 May 04 16:03	27° 8 27'28		evening set	5570 Apr 18 02:51	10° 8 24'04	
inferior conj	5569 May 11 11:00	22° 8 35'28	2°44'15	inferior conj	5570 Apr 24 08:13	5° 8 12'29	3°18'34
minimum elong	5569 May 11 14:12	22° 8 28'02	2°43'30	minimum elong	5570 Apr 24 10:05	5° 8 07'31	3°18'20
min. Earth dist.	5569 May 14 18:15	19° 8 33'08	0.60354 AU	min. Earth dist.	5570 Apr 27 04:19	2° 8 13'32	0.62527 AU
morning rise	5569 May 18 09:57	16° 8 45'20			5570 Apr 29 13:22	30° ₹Ƴ	
desc. node	5569 May 22 06:58	15° 8 01'17		morning rise	5570 Apr 30 15:49	29° Y 07'27	
direct	5569 May 24 23:37	14° 8 40'26		direct	5570 May 07 11:46	26° Y 35'15	
morning max el	5569 Jun 08 07:16	22° 8 35'14	27°43'01	desc. node	5570 May 09 04:00	26° Y 43'44 0° と	
	5569 Jun 14 20:35 5569 Jul 03 22:08	0°© 0°∏		morning max el	5570 May 16 05:55 5570 May 21 13:28	4° 8 36'19	27°52'11
morning set	5569 Jul 10 12:11	13° © 00'58		morning max ci	5570 Jun 09 13:53	4 O 30 19	27 32 11
asc. node	5569 Jul 13 03:29	18°934'33		morning set	5570 Jun 24 12:39	27° I I1'43	
max. Earth dist.	5569 Jul 16 17:10	26°519'43	1.31961 AU		5570 Jun 25 21:36	0 ಲ	
				max. Earth dist.	5570 Jun 30 00:05	8° 5 38'34	1.32422 AU
superior conj	5569 Jul 17 17:38	28° © 34'21	0°46'13	asc. node	5570 Jun 30 00:31	8°9540'50	
minimum elong	5569 Jul 17 15:46	28° 5 24'03	0°45'50				
	5569 Jul 18 09:10	0°N		superior conj	5570 Jul 02 02:39	13°9511'50	0°21'34
evening rise	5569 Jul 24 12:43	13° Ω 25'25		minimum elong	5570 Jul 02 01:39	13°506'24	0°21'20
desc. node	5569 Aug 01 20:01 5569 Aug 18 06:13	0° Mp 24° Mp 12'18		evening rise	5570 Jul 09 00:24 5570 Jul 09 20:50	28°©11'38 0° Ω	
evening max el	5569 Aug 20 18:42		25°30'11		5570 Jul 26 23:07	0°m)	
evening max er	5569 Aug 24 14:16	20 1 ણ 40 40 0° Ω	23 30 11	evening max el	5570 Aug 02 07:37	7° Mg 18′29	23°58'24
retrograde	5569 Sep 03 17:12	3° ჲ 51'07		desc. node	5570 Aug 05 03:14	9° m 46'55	
evening set	5569 Sep 09 16:20	2° ₽ 28'27		retrograde	5570 Aug 16 01:18	14° Mp 12'56	
	5569 Sep 14 00:38	30°R Mp		evening set	5570 Aug 20 14:58	13°M 26'48	
min. Earth dist.	5569 Sep 14 06:31		0.57959 AU	min. Earth dist.	5570 Aug 26 18:01	10° m 27'35	0.56193 AU
inferior conj	5569 Sep 17 08:57	27° m 40'47		inferior conj	5570 Aug 29 02:38	9° ™ 00'59	
minimum elong	5569 Sep 17 12:16	27° Mp 35'00	5°12'54	minimum elong	5570 Aug 28 23:49	9° my 05'18	5°15'56
morning rise direct	5569 Sep 25 10:28 5569 Sep 27 21:47	23° Mp 23'36 23° Mp 04'50		morning rise direct	5570 Sep 06 11:09 5570 Sep 09 05:19	5° Mp 03'34 4° Mp 44'03	
morning max el	5569 Oct 06 12:13	23 m/04 30 27° m/10'29	18°51'37	morning max el	5570 Sep 19 05:49	9° My 24'24	19°53'55
asc. node	5569 Oct 09 02:46	0° ೭ 00'22	10 3137	asc. node	5570 Sep 25 23:48	17° m) 42'37	17 55 55
	5569 Oct 09 02:38	0∘ ⊽			5570 Oct 03 01:36	0∘ <u>⊽</u>	
morning set	5569 Oct 22 23:59	23° ≏ 35'03		morning set	5570 Oct 07 03:55	8° ≏ 07'21	
	5569 Oct 26 06:18	0°M₊					
				superior conj	5570 Oct 14 22:40	23° ≏ 54'26	1°39'21
superior conj	5569 Oct 31 11:38	10°M07'01	1°27'22	minimum elong	5570 Oct 15 00:14	24° Ω 02'14	1°39'16
minimum elong max. Earth dist.	5569 Oct 31 14:40 5569 Nov 07 12:28	10°M21'29 23°M03'56	1°27'06 1.39220 AU	max. Earth dist.	5570 Oct 18 01:02 5570 Oct 20 17:38	0° ጤ 5° ጤ 08'19	1.37133 AU
evening rise	5569 Nov 11 10:15	29°M52'10	1.39220 AU	evening rise	5570 Oct 24 12:18	12°M05'26	1.3/133 AU
evening rise	5569 Nov 11 12:05	0° ₹		desc. node	5570 Nov 01 02:29	25°M08'54	
desc. node	5569 Nov 14 05:30	4° ≯ 35'03			5570 Nov 04 02:36	0° ∡ 7	
	5569 Nov 30 20:13	8°0			5570 Nov 26 00:45	600	
evening max el	5569 Dec 16 16:34	19° る 34'55	24°21'16	evening max el	5570 Nov 29 05:05	3° ⋜ 18'41	25°34'58
retrograde	5569 Dec 27 23:59	26° る 12'29		retrograde	5570 Dec 11 11:07	10° る 20'44	
evening set	5570 Jan 02 09:24	23° ප් 57'35		evening set	5570 Dec 17 09:54	7° る 52'50	
asc. node	5570 Jan 05 02:00	21° る 09'19	0.67045 ***	min. Earth dist.	5570 Dec 21 18:47	3°る06'08	0.67187 AU
min. Earth dist.	5570 Jan 07 01:35	18°る36'27	0.67845 AU 0°55'53	asc. node	5570 Dec 22 23:02	1°る35'47 1°る28'20	0001150
inferior conj minimum elong	5570 Jan 07 21:09 5570 Jan 07 19:52	17°る30'48 17°る35'07		inferior conj minimum elong	5570 Dec 23 01:22 5570 Dec 23 01:18	1°る28'20	0°01'59 0°01'59
morning rise	5570 Jan 13 06:26	17 3 3307 11° る 29'04	0 55 25	transit middle	5570 Dec 23 01:18	1 32830 1° 3 28'30	0°01'59
direct	5570 Jan 17 02:28	10°る05'07		transit begin	5570 Dec 22 22:31	1° る 37'26	
morning max el	5570 Jan 24 19:48	14° පි 28'09	20°11'55	transit end	5570 Dec 23 04:06	1°る19'35	
-	5570 Feb 05 22:28	0° ≈			5570 Dec 24 05:19	30°Ŗ ⋌ ¹	
desc. node	5570 Feb 10 04:47	6°≈14'54		morning rise	5570 Dec 28 17:06	25° ∡ ³34′24	
morning set	5570 Feb 21 10:02	23°≈16′22		direct	5571 Jan 01 01:14	24° 渘 30′14	

	5571 1 00 01 01	200 722122	10011100	1	5571 D 15 00 14	00.75040	
morning max el	5571 Jan 08 01:21	28° ₹ 23'32	19°11'29	direct	5571 Dec 15 23:14	8° ₹ 50'18	1002750
4 41 311	5571 Jan 09 13:44	0°る	0.7	morning max el	5571 Dec 22 13:19		18°26'59
greatest brilliancy	5571 Jan 21 16:10	16° පි 43'43	-0.7m		5572 Jan 04 05:42	0°る	
desc. node	5571 Jan 28 01:47	26° る 32'40		morning set	5572 Jan 11 12:46	11° පි 36'50	
	5571 Jan 30 07:21	0° ≈		desc. node	5572 Jan 14 22:47	17° る 03'45	
morning set	5571 Jan 31 11:16	1°≈48'12			5572 Jan 23 03:05	0° ≈	
max. Earth dist.	5571 Feb 14 05:43	23° ≈ 17'59	1.44932 AU				
				superior conj	5572 Jan 27 07:32	6°≈34'23	
superior conj	5571 Feb 17 04:00	27° ≈ 55'39		minimum elong	5572 Jan 26 22:32		1°18'16
minimum elong	5571 Feb 16 20:06	27°≈24'18	1°52'59	max. Earth dist.	5572 Jan 28 00:09	7° ≈ 39'28	1.45362 AU
	5571 Feb 18 11:20	0° ∺			5572 Feb 11 05:38	0° ∀	
evening rise	5571 Mar 03 17:44	21° ∺ 29'53		evening rise	5572 Feb 12 05:52	1°) ₹35'41	
	5571 Mar 08 21:23	0° Υ		greatest brilliancy	5572 Feb 22 01:01	17°) €01'49	-0.8m
asc. node	5571 Mar 20 22:16	18° Y 19′29			5572 Mar 01 21:04	0° Υ	
evening max el	5571 Mar 23 09:12	21° Υ 06'29	18°26'54	evening max el	5572 Mar 05 19:04	4° Ƴ 37'31	19°02'57
retrograde	5571 Mar 29 20:49	24° Y 37'56		asc. node	5572 Mar 06 19:19	5° Y 36′04	
evening set	5571 Apr 01 22:54	23° Y 45′08		retrograde	5572 Mar 12 15:59	8° Y 29'51	
inferior conj	5571 Apr 07 18:33	18° Y 15′29	3°31'12	evening set	5572 Mar 16 01:05	7° Y 23'34	
minimum elong	5571 Apr 07 18:50	18° Ƴ 14'39	3°31'12	inferior conj	5572 Mar 21 14:19	1° Y 37'26	
min. Earth dist.	5571 Apr 09 23:45	15° Ƴ 39'58	0.64460 AU	minimum elong	5572 Mar 21 13:17	1° Y 40'45	3°27'13
morning rise	5571 Apr 13 13:58	12° Y 03′18			5572 Mar 22 21:00	30° ₹ ₩	
direct	5571 Apr 20 08:13	9° Ƴ 15'57		min. Earth dist.	5572 Mar 23 03:58	29° ∺ 38′08	0.66018 AU
desc. node	5571 Apr 26 01:02	10° Y 54'36		morning rise	5572 Mar 27 01:05	25° ∺ 22'40	
morning max el	5571 May 03 22:50	17° Ƴ 12'49	27°25'11	direct	5572 Apr 02 11:22	22°) 33′49	
	5571 May 14 14:14	9° 8		desc. node	5572 Apr 11 22:04	27° ∺ 01′00	
	5571 Jun 02 10:05	Π $\circ 0$			5572 Apr 15 03:38	$0^{\circ}\mathbf{\Upsilon}$	
morning set	5571 Jun 08 04:52	10° Ⅱ 55'17		morning max el	5572 Apr 15 08:46	0° Y 12'55	26°28'26
max. Earth dist.	5571 Jun 12 23:07	20° Ⅲ 31′06	1.33341 AU		5572 May 07 13:06	$8^{\circ 0}$	
				morning set	5572 May 21 09:21	24° 8 01'01	
superior conj	5571 Jun 16 07:29	27° Ⅲ 32'48	-0°06'05		5572 May 24 12:17	Π $^{\circ}0$	
minimum elong	5571 Jun 16 07:48	27° Ⅱ 34'27	0°06'02	max. Earth dist.	5572 May 25 11:25	1° Ⅱ 53'25	1.34741 AU
behind sun begin	5571 Jun 16 02:42	27° Ⅱ 07'23					
behind sun end	5571 Jun 16 12:54	28° Ⅱ 01'33		superior conj	5572 May 30 05:48	11° Ⅲ 30′01	-0°35'41
asc. node	5571 Jun 16 21:33	28° Ⅱ 47'37		minimum elong	5572 May 30 07:46	11° Ⅱ 40′06	0°35'19
	5571 Jun 17 11:06	0 \circ \odot		asc. node	5572 Jun 02 18:34	18° ∏ 50′23	
evening rise	5571 Jun 23 11:43	12° © 52'57		evening rise	5572 Jun 06 20:42	27° Ⅱ 22'48	
	5571 Jul 02 04:33	$0 {\circ} \Omega$			5572 Jun 08 03:12	0	
evening max el	5571 Jul 14 21:28	17° Ω 39'06	22°20'50	evening max el	5572 Jun 25 20:07	28° 5 20'23	20°51'51
desc. node	5571 Jul 23 00:14	23° Ω 11'18			5572 Jun 27 16:08	$0 {\circ} \Omega$	
retrograde	5571 Jul 27 21:01	24° Ω 06′11		retrograde	5572 Jul 07 09:15	4° Ω 01'05	
evening set	5571 Jul 30 22:44	23° Ω 45'22		desc. node	5572 Jul 08 21:17	3° Ω 55'40	
min. Earth dist.	5571 Aug 08 04:04	20° Ω 11′20		evening set	5572 Jul 09 12:27	3° Ω 50'14	
inferior conj	5571 Aug 09 02:58	19° Ω 38'58	-4°29'28	inferior conj	5572 Jul 18 19:52	29° © 53'13	-2°53'51
minimum elong	5571 Aug 08 18:39	19° Ω 50'45	4°27'41	minimum elong	5572 Jul 18 12:05	0° Ω 04'15	2°51'16
morning rise	5571 Aug 17 16:22	15° Ω 49'18			5572 Jul 18 15:05	30° ₹ 5	
direct	5571 Aug 20 20:16	15° Ω 26'43		min. Earth dist.	5572 Jul 19 14:38	29° © 26'36	0.54799 AU
morning max el	5571 Sep 01 11:10	20° Ω 52′23	21°17'16	morning rise	5572 Jul 27 11:36	25° © 52'41	
	5571 Sep 09 00:25	0° mp		direct	5572 Jul 31 05:20	25° © 22'40	
asc. node	5571 Sep 12 20:49	6° Mp 10′36			5572 Aug 11 09:26	$0^{\circ}\Omega$	
morning set	5571 Sep 21 12:25	22° m 52'27		morning max el	5572 Aug 13 05:50	1° Ω 36′56	22°56'43
	5571 Sep 24 22:03	0∘ ऌ		asc. node	5572 Aug 29 17:51	25° Ω 12'21	
					5572 Sep 01 05:11	O°My	
superior conj	5571 Sep 28 20:05	8° £ 12'12	1°43'13	morning set	5572 Sep 04 23:24	7° ™ 43′26	
minimum elong	5571 Sep 28 20:09	8° ≏ 12'35	1°43'13				
max. Earth dist.	5571 Oct 03 03:58	17° ≙ 00'45	1.35283 AU	superior conj	5572 Sep 12 00:32	22°M/49'15	1°40'13
evening rise	5571 Oct 07 08:39	25° ≏ 09'35		minimum elong	5572 Sep 11 23:23	22° Mp 43'10	1°40'10
	5571 Oct 09 23:08	0°M₊		max. Earth dist.	5572 Sep 14 22:54	-	1.33797 AU
desc. node	5571 Oct 18 23:30	15°M29'46			5572 Sep 15 10:06	0∘ ⊽	
	5571 Oct 28 14:37	0° ∡ ¹		evening rise	5572 Sep 19 18:56	8° £ 51′56	
evening max el	5571 Nov 11 17:58	17° ∡ 100′54	26°35'18		5572 Oct 01 10:29	0°M₊	
retrograde	5571 Nov 24 17:01	24° ₹ 15'39		desc. node	5572 Oct 04 20:32	5°M30'25	
evening set	5571 Dec 01 04:30	21° х 38'54			5572 Oct 23 17:44	0°⊀	
min. Earth dist.	5571 Dec 05 06:48	17° ∡ 127′16	0.66182 AU	evening max el	5572 Oct 24 06:43	0° ∡ 31'21	27°15'00
inferior conj	5571 Dec 07 00:46	15° ≮ 21'53		retrograde	5572 Nov 06 16:54	7° ∡ °49'17	
minimum elong	5571 Dec 07 02:22	15° ∡ 17'07	0°56'30	evening set	5572 Nov 13 14:53	5° ≯ 10'02	
asc. node	5571 Dec 09 20:04	12° ∡ 11'49		min. Earth dist.	5572 Nov 17 11:14	1° ≯ 33'13	0.64826 AU
morning rise	5571 Dec 13 00:59	9° ∡ 38'19			5572 Nov 18 21:28	30°RM₊	

inferior conj	5572 Nov 19 17:04	29° M .06'01	-2°00'13	minimum elong	5573 Nov 03 04:55	12° M 20'46	3°02'37
minimum elong	5572 Nov 19 17:04 5572 Nov 19 20:35	28°M56'23		morning rise	5573 Nov 09 04:33	7°M20'53	3 02 37
asc. node	5572 Nov 25 17:06	23°M48'30	1 3647	direct	5573 Nov 12 06:51	6°M53'52	
morning rise	5572 Nov 26 03:29	23°M35'54		asc. node	5573 Nov 12 00:31 5573 Nov 12 14:09	6°M54'18	
direct	5572 Nov 28 18:05	23°ML00'12		morning max el	5573 Nov 18 22:10	10°ML19'18	170/10/18
morning max el	5572 Dec 05 05:14	26°M25'47	17°59'23	morning max er	5573 Dec 02 02:08	0°×7	17 47 10
morning max er	5572 Dec 08 07:22	0° ₹	17 37 23	morning set	5573 Dec 05 04:05	5° × ⁷ 23'17	
morning set	5572 Dec 22 19:59	22° х 54'12		morning sec	3373 BCC 03 01.03	3 7. 23 17	
morning sec	5572 Dec 27 02:33	0°පි		superior conj	5573 Dec 17 02:06	25° ҂ ¹48'52	0°11'26
desc. node	5572 Dec 31 19:49	7°る43'53		minimum elong	5573 Dec 17 03:15	25° ₹ '53'43	0°11'17
		,		behind sun begin	5573 Dec 16 20:31	25° ₹ 25'43	,,
superior conj	5573 Jan 05 17:37	15°₹38'00	-0°33'52	behind sun end	5573 Dec 17 10:00	26° ₹ 21'40	
minimum elong	5573 Jan 05 13:31	15° ට 21'37	0°33'17	desc. node	5573 Dec 18 16:51	28° ₹ 29'07	
max. Earth dist.	5573 Jan 09 19:54	22° る 07'46			5573 Dec 19 14:59	0°る	
	5573 Jan 14 20:27	0° ≈		max. Earth dist.	5573 Dec 23 13:30	6° る 22'59	1.44019 AU
evening rise	5573 Jan 21 23:05	11° ≈ 00'45		evening rise	5574 Jan 01 09:24	20°る15'42	
Č	5573 Feb 03 10:15	0° \		Č	5574 Jan 07 18:42	0° ≈	
greatest brilliancy	5573 Feb 05 03:32	2°) 33'13	-0.6m		5574 Jan 29 08:47	0°) €	
evening max el	5573 Feb 17 00:27	18°) 11′28	19°55'02	evening max el	5574 Jan 31 00:18	1°){ 46'05	21°00'38
asc. node	5573 Feb 21 16:21	21° ¥ 50′26		retrograde	5574 Feb 08 12:06	6°) €47'21	
retrograde	5573 Feb 24 13:51	22°) 34'40		asc. node	5574 Feb 08 13:24	6°){ 47'21	
evening set	5573 Feb 28 06:59	21°) 14'08		evening set	5574 Feb 12 14:36	5°) €11'56	
inferior conj	5573 Mar 05 16:31	15°) 13′26	3°10'36	8	5574 Feb 17 04:59	30°R≈	
minimum elong	5573 Mar 05 14:35	15° ¥ 19'56		inferior conj	5574 Feb 17 22:39	28°≈59'17	2°43'30
min. Earth dist.	5573 Mar 06 15:33	13° ¥ 56'18	0.67146 AU	minimum elong	5574 Feb 17 20:18	29° ≈ 07'25	2°42'54
morning rise	5573 Mar 10 21:58	8° ¥ 58'36		min. Earth dist.	5574 Feb 18 08:32	28° ≈ 25'11	0.67848 AU
direct	5573 Mar 16 20:13	6°) 19'44		morning rise	5574 Feb 23 01:49	22° ≈ 45'57	
morning max el	5573 Mar 28 17:56	13°) € 26'43	25°11'06	direct	5574 Feb 28 09:57	20° ≈ 24'48	
desc. node	5573 Mar 29 19:06	14°) (31'51		morning max el	5574 Mar 11 02:48	26° ≈ 47'26	23°43'10
	5573 Apr 11 03:50	$0^{\circ}\Upsilon$		Č	5574 Mar 14 02:19	0°) €	
	5573 Apr 30 08:04	0°8		desc. node	5574 Mar 16 16:07	3°) €02'45	
morning set	5573 May 03 21:36	6° 8 16'45			5574 Apr 04 18:33	$_{0}^{\circ}\gamma$	
max. Earth dist.	5573 May 07 13:16	12° 8 57'47	1.36575 AU	morning set	5574 Apr 15 11:49	17° Y 26′29	
	,			max. Earth dist.	5574 Apr 19 09:06	24° Ƴ 10'57	1.38706 AU
superior conj	5573 May 13 18:46	24° 8 56'07	-1°05'44		5574 Apr 22 15:03	0°8	
minimum elong	5573 May 13 22:28	25° 8 14'22			•		
C	5573 May 16 07:44	Π°		superior conj	5574 Apr 26 18:37	7° 8 40'43	-1°33'51
asc. node	5573 May 20 15:37	8° Ⅱ 45'31		minimum elong	5574 Apr 26 23:35	8° 8 04'08	1°33'13
evening rise	5573 May 22 01:08	11° Ⅱ 35'01		evening rise	5574 May 05 22:13	25° 8 21'10	
	5573 May 31 21:57	0°ම		asc. node	5574 May 07 12:39	28° 8 27'47	
evening max el	5573 Jun 08 07:16	9° 5 41'47	19°40'10		5574 May 08 07:48	Π $^{\circ}0$	
retrograde	5573 Jun 18 02:57	14°930'15		evening max el	5574 May 22 05:51	21° Ⅱ 44'38	18°48'48
evening set	5573 Jun 20 00:48	14°520'08		retrograde	5574 May 30 12:42	25° Ⅱ 49'03	
desc. node	5573 Jun 25 18:18	12° © 07'22		evening set	5574 Jun 01 14:50	25° Ⅱ 34'29	
inferior conj	5573 Jun 28 20:09	10°\$\$16'44	-0°55'25	inferior conj	5574 Jun 09 14:50	21° Ⅲ 14'42	0°52'36
minimum elong	5573 Jun 28 17:37	10°920'42	0°54'28	minimum elong	5574 Jun 09 16:48	21° Ⅲ 11′07	0°51'53
min. Earth dist.	5573 Jul 01 03:20	8°950'37	0.55512 AU	desc. node	5574 Jun 12 15:21	19° Ⅱ 03'24	
morning rise	5573 Jul 07 08:09	5°9546'46		min. Earth dist.	5574 Jun 12 19:45	18° Ⅱ 55'44	0.57037 AU
direct	5573 Jul 11 20:56	5° © 01'11		morning rise	5574 Jun 17 15:24	16° Ⅲ 07'58	
morning max el	5573 Jul 25 19:29	11° © 58'13	24°40'51	direct	5574 Jun 23 02:18	14° ∏ 55'42	
	5573 Aug 08 14:27	$0^{\circ}\Omega$		morning max el	5574 Jul 07 10:37	22° Ⅲ 24'37	26°13'48
asc. node	5573 Aug 16 14:54	14° Ω 39'28			5574 Jul 14 04:03	0ಂ ತಾ	
morning set	5573 Aug 20 11:10	22° Ω 35'34			5574 Aug 01 08:03	0 $^{\circ}\Omega$	
	5573 Aug 23 21:39	0° m		asc. node	5574 Aug 03 11:57	4° Ω 24'47	
				morning set	5574 Aug 04 22:05	7° Ω 23'46	
superior conj	5573 Aug 27 09:27	7° m 38'00	1°31'20				
minimum elong	5573 Aug 27 07:30	7° m 27'25	1°31'09	superior conj	5574 Aug 11 20:44	22° Ω 31′50	1°17'19
max. Earth dist.	5573 Aug 29 02:07	11° m 19'08	1.32731 AU	minimum elong	5574 Aug 11 18:27	22° Ω 19′13	1°16'59
evening rise	5573 Sep 03 15:29	23° Mp 02'38		max. Earth dist.	5574 Aug 12 10:59	23° Ω 50′28	1.32091 AU
		0∘ ⊽			5574 Aug 15 06:25	0° ™	
	5573 Sep 07 03:16	· —					
desc. node	5573 Sep 21 17:34	25° ≙ 02'23		evening rise	5574 Aug 18 19:15	7° ™ 33'02	
desc. node	•			evening rise	5574 Aug 18 19:15 5574 Aug 30 14:14	7°№33'02 0° <u>മ</u>	
desc. node evening max el	5573 Sep 21 17:34	25° ഫ 02'23	27°27'20	evening rise desc. node	•		
	5573 Sep 21 17:34 5573 Sep 25 04:22	25° ₽ 02′23 0° ™	27°27'20		5574 Aug 30 14:14	0° ჲ 13° ჲ 54'09 26° ჲ 04'59	27°07'28
evening max el	5573 Sep 21 17:34 5573 Sep 25 04:22 5573 Oct 06 17:26	25° 2 02'23 0° IL 13° IL 36'51	27°27'20	desc. node	5574 Aug 30 14:14 5574 Sep 08 14:35	0° ഫ 13° ഫ 54'09	27°07'28
evening max el retrograde	5573 Sep 21 17:34 5573 Sep 25 04:22 5573 Oct 06 17:26 5573 Oct 20 10:16	25° \(\Omega\) 02'23 0° \(\mathbb{M}\) 13° \(\mathbb{M}\) 36'51 20° \(\mathbb{M}\) 52'49 18° \(\mathbb{M}\) 20'13	27°27'20 0.63138 AU	desc. node	5574 Aug 30 14:14 5574 Sep 08 14:35 5574 Sep 18 23:43	0° ჲ 13° ჲ 54'09 26° ჲ 04'59	27°07'28
evening max el retrograde evening set	5573 Sep 21 17:34 5573 Sep 25 04:22 5573 Oct 06 17:26 5573 Oct 20 10:16 5573 Oct 27 14:06	25° \(\Omega\) 02'23 0° \(\mathbb{M}\) 13° \(\mathbb{M}\) 36'51 20° \(\mathbb{M}\) 52'49 18° \(\mathbb{M}\) 20'13	0.63138 AU	desc. node evening max el	5574 Aug 30 14:14 5574 Sep 08 14:35 5574 Sep 18 23:43 5574 Sep 23 18:39	0° £ 13° £ 54'09 26° £ 04'59 0° M	27°07'28

	5574 Oct 11 11:35	30° ₽ Ω		evening set	5575 Sep 21 10:42	13° ≏ 09'54	
min. Earth dist.	5574 Oct 13 14:12	28° £ 20'27	0.61184 AU	min. Earth dist.	5575 Sep 25 12:21	10° Ω 35'07	0.59109 AU
inferior conj	5574 Oct 16 17:02	25° £ 38'11		inferior conj	5575 Sep 28 17:58	8° ഫ 08'27	
minimum elong	5574 Oct 16 23:28	25° £ 24'11	4°03'42	minimum elong	5575 Sep 28 23:22	7° £ 58'12	
morning rise	5574 Oct 24 02:38	20° £ 45'15		morning rise	5575 Oct 06 14:16	3° Ω 37'55	
direct	5574 Oct 26 09:50	20° £ 23'40		direct	5575 Oct 08 22:49	3° ≏ 18'54	
asc. node	5574 Oct 30 11:12	21° ≏ 33'43		morning max el	5575 Oct 16 21:59	7° ≏ 10'29	18°25'48
morning max el	5574 Nov 02 12:55	23° ≏ 57'38	17°57'39	asc. node	5575 Oct 17 08:14	7° ≏ 35'46	
	5574 Nov 07 09:40	0°M			5575 Oct 31 12:05	0° M	
morning set	5574 Nov 18 06:34	18° M .44'40		morning set	5575 Nov 01 21:56	2°M41'55	
	5574 Nov 24 10:34	0° ∡ ¹					
				superior conj	5575 Nov 10 22:38	19° ™ 50'09	1°16'17
superior conj	5574 Nov 28 12:58	7° ∡ 16'49	0°48'58	minimum elong	5575 Nov 11 02:17	20° ™ 07'02	1°15'53
minimum elong	5574 Nov 28 16:36	7° ∡ ³32'42	0°48'30		5575 Nov 16 14:02	0° ∡ ¹	
desc. node	5574 Dec 05 13:52	19° ∡ 16'17		max. Earth dist.	5575 Nov 18 09:59	3° ∡ 11'11	1.40437 AU
max. Earth dist.	5574 Dec 06 02:21	20° ∡ ¹07'57	1.42416 AU	desc. node	5575 Nov 22 10:53	10° ∡ '01'17	
evening rise	5574 Dec 12 04:36	29° ₰ 59'20		evening rise	5575 Nov 22 19:37	10° ∡ ³37'34	
	5574 Dec 12 04:46	5°0			5575 Dec 05 03:39	8°0	
	5575 Jan 01 08:55	0° ≈		evening max el	5575 Dec 27 09:47	29° る 02'16	23°35'51
evening max el	5575 Jan 13 18:56	15° ≈ 22'36	22°15'57		5575 Dec 28 09:31	0° ≈	
retrograde	5575 Jan 23 08:54	21° ≈ 04′26		retrograde	5576 Jan 07 02:41	5° ≈ 21'29	
asc. node	5575 Jan 26 10:27	20° ≈ 15′08		evening set	5576 Jan 12 04:24	3° ≈ 15′22	
evening set	5575 Jan 27 22:17	19° ≈ 13'41		asc. node	5576 Jan 13 07:29	2° ≈ 12'05	
inferior conj	5575 Feb 02 06:38	12° ≈ 52′25	2°07'40		5576 Jan 15 05:26	30°Ŗる	
minimum elong	5575 Feb 02 04:20	13° ≈ 00′26	2°06'55	min. Earth dist.	5576 Jan 17 01:24	27° る 34'29	0.68060 AU
min. Earth dist.	5575 Feb 02 04:37	12° ≈ 59′28	0.68146 AU	inferior conj	5576 Jan 17 14:34	26° る 49'28	1°24'07
morning rise	5575 Feb 07 10:14	6° ≈ 42'05		minimum elong	5576 Jan 17 12:46		1°23'28
direct	5575 Feb 12 03:49	4° ≈ 42'40		morning rise	5576 Jan 22 21:05	20° る 43'52	
morning max el	5575 Feb 21 14:04	10° ≈ 15′12	22°14'29	direct	5576 Jan 27 00:42	19° る 07'08	
desc. node	5575 Mar 03 13:10	22° ≈ 17′07		morning max el	5576 Feb 04 07:11	23° る 52'49	20°53'09
	5575 Mar 09 02:05	0° ∀			5576 Feb 09 15:03	0° ≈	
morning set	5575 Mar 26 22:37	27°) 17'27		desc. node	5576 Feb 18 10:10	12° ≈ 02'35	
	5575 Mar 28 14:29	0° Υ			5576 Mar 01 10:50	0° ∀	
max. Earth dist.	5575 Apr 01 06:04	6° Ƴ 03'49	1.40901 AU	morning set	5576 Mar 05 06:31	5° ¥ 55'03	
				max. Earth dist.	5576 Mar 13 09:47	18° ¥ 52'32	1.42872 AU
superior conj	5575 Apr 09 00:54	19° Ƴ 33'42					
minimum elong	5575 Apr 09 05:39	19° Ƴ 54'51	1°56'07	superior conj	5576 Mar 20 08:47	0° Y 24'35	
	5575 Apr 14 18:35	0°8		minimum elong	5576 Mar 20 10:22	0° Y 31'18	2°08'40
evening rise	5575 Apr 19 08:38	8° 8 32'54			5576 Mar 20 02:58	0° Υ	
asc. node	5575 Apr 24 09:41	17° 8 52'13		evening rise	5576 Apr 01 04:15	21° Y ′01′10	
	5575 May 01 20:18	0°II			5576 Apr 06 05:40	0°B	
evening max el				_	•		
	5575 May 05 12:45	4° Ⅲ 22'11	18°17'47	asc. node	5576 Apr 10 06:43	6° 8 52'45	
retrograde	5575 May 12 17:14	7° II 57'30	18°17'47	evening max el	5576 Apr 10 06:43 5576 Apr 18 00:20	6° と 52'45 17° と 25'07	18°06'27
evening set	5575 May 12 17:14 5575 May 15 02:27	7° Ⅱ 57'30 7° Ⅱ 34'42		evening max el retrograde	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09	6°\d52'45 17°\d25'07 20°\d47'32	18°06'27
evening set inferior conj	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09	7° П 57'30 7° П 34'42 2° П 54'54	2°12'16	evening max el retrograde evening set	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15	6°\delta52'45 17°\delta25'07 20°\delta47'32 20°\delta14'01	
evening set inferior conj minimum elong	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35	7°П57'30 7°П34'42 2°П54'54 2°П47'35	2°12'16 2°11'17	evening max el retrograde evening set inferior conj	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57	6°\delta52'45 17°\delta25'07 20°\delta47'32 20°\delta14'01 15°\delta13'44	3°01'47
evening set inferior conj	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26	7°Д57'30 7°Д34'42 2°Д54'54 2°Д47'35 0°Д01'07	2°12'16	evening max el retrograde evening set inferior conj minimum elong	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40	6°\delta52'45 17°\delta25'07 20°\delta47'32 20°\delta14'01 15°\delta13'44 15°\delta07'02	3°01'47 3°01'16
evening set inferior conj minimum elong min. Earth dist.	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00	7°П57'30 7°П34'42 2°П54'54 2°П47'35 0°П01'07 30°R8	2°12'16 2°11'17	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20	6°\delta52'45 17°\delta25'07 20°\delta47'32 20°\delta14'01 15°\delta73'44 15°\delta70'02 12°\delta9'57	3°01'47
evening set inferior conj minimum elong min. Earth dist.	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41	7° Π57'30 7° Π34'42 2° Π54'54 2° Π47'35 0° Π01'07 30° R8 27° 817'32	2°12'16 2°11'17	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25	3°01'47 3°01'16
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23	7°П57'30 7°П34'42 2°П54'54 2°П47'35 0°П01'07 30°R& 27°&17'32 26°♥50'31	2°12'16 2°11'17	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 16 09:25	6°\delta52'45 17°\delta25'07 20°\delta47'32 20°\delta14'01 15°\delta13'44 15°\delta07'02 12°\delta09'57 9°\delta16'25 7°\delta00'19	3°01'47 3°01'16
evening set inferior conj minimum elong min. Earth dist.	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52	7° Π57'30 7° Π34'42 2° Π54'54 2° Π47'35 0° Π01'07 30° R 8 27° 817'32 26° 850'31 25° 831'20	2°12'16 2°11'17	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 16 09:25 5576 May 17 04:44	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24	3°01'47 3°01'16 0.61301 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53	7°用57'30 7°用34'42 2°用54'54 2°用47'35 0°用01'07 30°R8 27°817'32 26°850'31 25°831'20 0°用	2°12'16 2°11'17 0.59084 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 16 09:25 5576 May 17 04:44 5576 May 31 10:02	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44	3°01'47 3°01'16 0.61301 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11	7°用57'30 7°用34'42 2°用54'54 2°用47'35 0°用01'07 30°R 8 27° 8 17'32 26° 8 50'31 25° 8 31'20 0°用 3°用20'02	2°12'16 2°11'17 0.59084 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 16 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\I	3°01'47 3°01'16 0.61301 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46	7°用57'30 7°用34'42 2°用54'54 2°用47'35 0°用01'07 30°R& 27°と17'32 26°と50'31 25°と31'20 0°用 3°用20'02 0°等	2°12'16 2°11'17 0.59084 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S	3°01'47 3°01'16 0.61301 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26	7°用57'30 7°用34'42 2°用54'54 2°用47'35 0°用01'07 30°R& 27°817'32 26°850'31 25°831'20 0°用 3°用20'02 0°野 22°野02'21	2°12'16 2°11'17 0.59084 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38	3°01'47 3°01'16 0.61301 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57	7° \$\Pi 57' 30\\ 7° \$\Pi 34' 42\\ 2° \$\Pi 54' 54\\ 2° \$\Pi 47' 35\\ 0° \$\Pi 01' 07\\ 30° \$\Beta \Beta	2°12'16 2°11'17 0.59084 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	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 11:06 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 07 05:58	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59	3°01'47 3°01'16 0.61301 AU 27°51'28
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26	7°用57'30 7°用34'42 2°用54'54 2°用47'35 0°用01'07 30°R& 27°817'32 26°850'31 25°831'20 0°用 3°用20'02 0°野 22°野02'21	2°12'16 2°11'17 0.59084 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38	3°01'47 3°01'16 0.61301 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43	7° Π57'30 7° Π34'42 2° Π54'54 2° Π47'35 0° Π01'07 30° R8 27° 817'32 26° 850'31 25° 831'20 0° Π 3° Π20'02 0° © 22° © 02'21 24° © 22'13 0° Ω	2°12'16 2°11'17 0.59084 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 max. Earth dist.	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 07 05:58 5576 Jul 09 07:37	6°\S52'45 17°\S25'07 20°\S47'32 20°\S41'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31	3°01'47 3°01'16 0.61301 AU 27°51'28
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43	7° Π57'30 7° Π34'42 2° Π54'54 2° Π47'35 0° Π01'07 30° R8 27° 817'32 26° 850'31 25° 831'20 0° Π 3° Π20'02 0° © 22° © 02'21 24° © 22'13 0° Ω 7° Ω 24'12	2°12'16 2°11'17 0.59084 AU 27°20'25	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 max. Earth dist.	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 07 05:58 5576 Jul 09 07:37	6°\S52'45 17°\S25'07 20°\S47'32 20°\S41'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 20 06:26 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43 5575 Jul 27 08:31 5575 Jul 27 06:21	7° Π57'30 7° Π34'42 2° Π54'54 2° Π47'35 0° Π01'07 30° R8 27° 817'32 26° 850'31 25° 831'20 0° Π 3° Π20'02 0° © 22° ©02'21 24° ©22'13 0° Ω 7° Ω24'12 7° Ω12'16	2°12'16 2°11'17 0.59084 AU 27°20'25	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 max. Earth dist.	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 07 05:58 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 17:32	6°\S52'45 17°\S25'07 20°\S47'32 20°\S414'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31 22°\S09'27 22°\S00'55	3°01'47 3°01'16 0.61301 AU 27°51'28
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.	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 20 06:26 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43 5575 Jul 27 08:31 5575 Jul 27 06:21 5575 Jul 26 22:03	7° \$\Pi 57'30 7° \$\Pi 34'42 2° \$\Pi 54'54 2° \$\Pi 47'35 0° \$\Pi 01'07 30° \$\Begin{array}{c} 27' \Begin{array}{c} 17'32 26' \Begin{array}{c} 550'31 25' \Begin{array}{c} 31'20 0° \$\Pi \ 3° \$\Pi 20'02 0° \$\Begin{array}{c} 22' \Begin{array}{c} 902'21 24' \Begin{array}{c} 22'13 0° \Omega 7° \$\Omega 24'12 7° \$\Omega 12'16 6° \$\Omega 26'21	2°12'16 2°11'17 0.59084 AU 27°20'25	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 max. Earth dist. superior conj minimum elong	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 07 05:58 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 17:32 5576 Jul 10 17:32 5576 Jul 10 17:32	6°\S52'45 17°\S25'07 20°\S47'32 20°\S414'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31 22°\S00'27 22°\S00'55 0°\Lambda	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 22 08:31 5575 Jul 27 08:31 5575 Jul 27 06:21 5575 Jul 26 22:03 5575 Aug 03 03:43	7° \$\Pi 57'30 7° \$\Pi 34'42 2° \$\Pi 54'54 2° \$\Pi 47'35 0° \$\Pi 01'07 30° \$\Begin{array}{c} 27' \Begin{array}{c} 27' \Begin{array}{c} 26' \Begin{array}{c} 550'31 25' \Begin{array}{c} 23'120 0° \$\Pi \\ 3° \$\Pi 20'02 0° \$\Begin{array}{c} 22' \Begin{array}{c} 60'22'11 24' \Begin{array}{c} 22'13 0° \$\Omeganarray 7° \$\Omega 24'12 7° \$\Omega 12'16 6° \$\Omega 26'21 22' \$\Omega 15'11	2°12'16 2°11'17 0.59084 AU 27°20'25	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 max. Earth dist.	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 17 04:44 5576 May 11 10:02 5576 Jun 12 14:51 5576 Jul 03 10:25 5576 Jul 03 10:25 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 17:32 5576 Jul 10 17:32 5576 Jul 14 08:47 5576 Jul 17 14:49	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31 22°\S09'27 22°\S00'55 0°\U007'\	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11
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.	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43 5575 Jul 27 08:31 5575 Jul 27 06:21 5575 Jul 26 22:03 5575 Aug 03 03:43 5575 Aug 06 21:36	7° \$\mathbb{T}57'30\\ 7° \$\mathbb{T}34'42\\ 2° \$\mathbb{T}54'54\\ 2° \$\mathbb{T}47'35\\ 0° \$\mathbb{T}01'07\\ 30° \$\mathbb{S}\\ 27° \$\mathbb{S}17'32\\ 26° \$\mathbb{S}50'31\\ 25° \$\mathbb{S}31'20\\ 0° \$\mathbb{T}\\ 3° \$\mathbb{T}20'02\\ 0° \$\mathbb{S}\\ 22° \$\mathbb{G}02'21\\ 24° \$\mathbb{G}22'13\\ 0° \$\mathbb{A}\\ 7° \$\mathbb{A}24'12\\ 7° \$\mathbb{A}12'16\\ 6° \$\mathbb{A}26'21\\ 22° \$\mathbb{A}15'11\\ 0° \$\mathbb{D}\\	2°12'16 2°11'17 0.59084 AU 27°20'25	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 max. Earth dist. superior conj minimum elong evening rise	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 17 04:44 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 19:05 5576 Jul 10 17:32 5576 Jul 10 17:32 5576 Jul 17 14:49 5576 Jul 29 13:27	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31 22°\S09'27 22°\S00'55 0°\Lambda 7°\Lambda 02'31 0°\M	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11
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	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43 5575 Jul 27 06:21 5575 Jul 26 22:03 5575 Aug 03 03:43 5575 Aug 06 21:36 5575 Aug 25 00:46	7° \$\mathbb{T}57'30\\ 7° \$\mathbb{T}34'42\\ 2° \$\mathbb{T}54'54\\ 2° \$\mathbb{T}47'35\\ 0° \$\mathbb{T}01'07\\ 30° \$\mathbb{S}\\ 27° \$\mathbb{S}17'32\\ 26° \$\mathbb{S}50'31\\ 25° \$\mathbb{S}31'20\\ 0° \$\mathbb{T}\\ 3° \$\mathbb{T}20'02\\ 0° \$\mathbb{S}\\ 22° \$\mathbb{S}02'21\\ 24° \$\mathbb{S}22'13\\ 0° \$\mathbb{A}\\ 7° \$\mathbb{A}24'12\\ 7° \$\mathbb{A}12'16\\ 6° \$\mathbb{A}26'21\\ 22° \$\mathbb{A}15'11\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{S}\\ 0° \$\math	2°12'16 2°11'17 0.59084 AU 27°20'25	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 max. Earth dist. superior conj minimum elong evening rise desc. node	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 11:06 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 19:05 5576 Jul 10 17:32 5576 Jul 10 17:32 5576 Jul 17 14:49 5576 Jul 29 13:27 5576 Aug 12 08:37	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31 22°\S09'27 22°\S00'55 0°\Lambda 7°\Lambda 02'31 0°\M 18°\M23'22	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11 0°35'51
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 desc. node	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43 5575 Jul 27 06:21 5575 Jul 26 22:03 5575 Aug 03 03:43 5575 Aug 06 21:36 5575 Aug 25 00:46 5575 Aug 26 11:37	7° \$\mathbb{T}57'30\\ 7° \$\mathbb{T}34'42\\ 2° \$\mathbb{T}54'54\\ 2° \$\mathbb{T}47'35\\ 0° \$\mathbb{T}01'07\\ 30° \$\mathbb{S}\\ 27° \$\mathbb{T}17'32\\ 26° \$\mathbb{S}50'31\\ 25° \$\mathbb{S}31'20\\ 0° \$\mathbb{T}\\ 3° \$\mathbb{T}20'02\\ 0° \$\mathbb{S}\\ 22° \$\mathbb{G}02'21\\ 24° \$\mathbb{S}22'13\\ 0° \$\mathbb{A}\\ 7° \$\mathbb{A}24'12\\ 7° \$\mathbb{A}24'12\\ 7° \$\mathbb{A}25'21\\ 22° \$\mathbb{A}15'11\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{L}\\ 1° \$\mathbb{L}48'47\\	2°12'16 2°11'17 0.59084 AU 27°20'25 0°58'45 0°58'21 1.31881 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 max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 21:40 5576 May 06 22:20 5576 May 10 11:06 5576 May 10 09:25 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 19:05 5576 Jul 10 17:32 5576 Jul 10 17:32 5576 Jul 17 14:49 5576 Jul 29 13:27 5576 Aug 12 08:37 5576 Aug 12 15:18	6°\S52'45 17°\S25'07 20°\S47'32 20°\S47'32 20°\S47'32 20°\S47'32 20°\S47'32 13°\S41'01 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\G 6°\S25'38 14°\G26'59 18°\G55'31 22°\G09'27 22°\S00'55 0°\R 7°\R02'31 0°\R 18°\R23'22 18°\R39'28	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11 0°35'51
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	5575 May 12 17:14 5575 May 15 02:27 5575 May 22 07:09 5575 May 22 10:35 5575 May 25 17:26 5575 May 25 18:00 5575 May 29 15:41 5575 May 30 12:23 5575 Jun 04 21:52 5575 Jun 15 12:53 5575 Jun 19 07:11 5575 Jul 08 17:46 5575 Jul 20 06:26 5575 Jul 21 08:57 5575 Jul 23 23:43 5575 Jul 27 06:21 5575 Jul 26 22:03 5575 Aug 03 03:43 5575 Aug 06 21:36 5575 Aug 25 00:46	7° \$\mathbb{T}57'30\\ 7° \$\mathbb{T}34'42\\ 2° \$\mathbb{T}54'54\\ 2° \$\mathbb{T}47'35\\ 0° \$\mathbb{T}01'07\\ 30° \$\mathbb{S}\\ 27° \$\mathbb{S}17'32\\ 26° \$\mathbb{S}50'31\\ 25° \$\mathbb{S}31'20\\ 0° \$\mathbb{T}\\ 3° \$\mathbb{T}20'02\\ 0° \$\mathbb{S}\\ 22° \$\mathbb{S}02'21\\ 24° \$\mathbb{S}22'13\\ 0° \$\mathbb{A}\\ 7° \$\mathbb{A}24'12\\ 7° \$\mathbb{A}12'16\\ 6° \$\mathbb{A}26'21\\ 22° \$\mathbb{A}15'11\\ 0° \$\mathbb{M}\\ 0° \$\mathbb{S}\\ 0° \$\math	2°12'16 2°11'17 0.59084 AU 27°20'25 0°58'45 0°58'21 1.31881 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 max. Earth dist. superior conj minimum elong evening rise desc. node	5576 Apr 10 06:43 5576 Apr 18 00:20 5576 Apr 24 14:09 5576 Apr 27 06:15 5576 May 03 18:57 5576 May 03 21:40 5576 May 10 11:06 5576 May 10 11:06 5576 May 17 04:44 5576 May 31 10:02 5576 Jun 12 14:51 5576 Jun 30 05:42 5576 Jul 03 10:25 5576 Jul 09 07:37 5576 Jul 10 19:05 5576 Jul 10 19:05 5576 Jul 10 17:32 5576 Jul 10 17:32 5576 Jul 17 14:49 5576 Jul 29 13:27 5576 Aug 12 08:37	6°\S52'45 17°\S25'07 20°\S47'32 20°\S14'01 15°\S13'44 15°\S07'02 12°\S09'57 9°\S16'25 7°\S00'19 6°\S58'24 14°\S56'44 0°\II 0°\S 6°\S25'38 14°\S26'59 18°\S55'31 22°\S09'27 22°\S00'55 0°\Lambda 7°\Lambda 02'31 0°\M 18°\M23'22	3°01'47 3°01'16 0.61301 AU 27°51'28 1.32102 AU 0°36'11 0°35'51

min. Earth dist.	5576 Sep 06 02:43	21° m / 8'//7	0.57154 AU	desc. node	5577 Jul 30 05:39	3° M 06'56	
inferior conj	5576 Sep 08 23:21	19° Mp 56'07		retrograde	5577 Aug 07 15:03	5° Mp 46'52	
minimum elong	5576 Sep 09 00:21	19° Mp 54'28	5°19'41	evening set	5577 Aug 11 13:05	5° Mp 13'18	
morning rise	5576 Sep 17 04:05	15° m) 47'45	3 17 11	min. Earth dist.	5577 Aug 18 12:48	2° mp 01'03	0.55621 AU
direct	5576 Sep 19 17:59	15° m/ 28'50		inferior conj	5577 Aug 20 08:49	0° m 56'39	
morning max el	5576 Sep 28 21:58	19° m 48'10	19°15'21	minimum elong	5577 Aug 20 03:12	1° m 04'53	
asc. node	5576 Oct 03 05:16	24° m 45'43	1, 10 21	mmmum viong	5577 Aug 21 23:56	30°R Ω	2 02 03
uoo. Irodo	5576 Oct 06 17:25	0∘ ʊ		morning rise	5577 Aug 28 19:39	27° Ω 04'38	
morning set	5576 Oct 15 22:11	17° Ω 04'03		direct	5577 Aug 31 17:55	26° Ω 44'00	
	5576 Oct 22 10:03	0°M			5577 Sep 09 09:56	0° m/y	
				morning max el	5577 Sep 11 10:15	1° m/42'05	20°27'00
superior conj	5576 Oct 24 01:48	3°M14'21	1°33'31	asc. node	5577 Sep 20 02:17	12° m 48'40	
minimum elong	5576 Oct 24 04:15	3°M26'15	1°33'21		5577 Sep 29 08:13	0∘ <u>⊽</u>	
max. Earth dist.	5576 Oct 30 15:01	15°M34'24	1.38322 AU	morning set	5577 Sep 30 04:20	1° ≏ 42'40	
evening rise	5576 Nov 03 09:28	22°M17'28		Z .	1		
S	5576 Nov 07 22:07	0° ∡ 7		superior conj	5577 Oct 07 17:42	17° ≏ 15'52	1°41'53
desc. node	5576 Nov 08 07:53	0° ≯ 40′28		minimum elong	5577 Oct 07 18:37	17° ≏ 20'30	1°41'52
	5576 Nov 28 01:17	0°₹		max. Earth dist.	5577 Oct 12 22:08	27° ≙ 32'14	1.36309 AU
evening max el	5576 Dec 08 22:50	12° る 45'36	24°53'50		5577 Oct 14 05:01	0°M	
retrograde	5576 Dec 20 16:20	19° る 34'16		evening rise	5577 Oct 16 19:47	4°M53'19	
evening set	5576 Dec 26 07:26	17° る 13'43		desc. node	5577 Oct 26 04:53	21°M09'34	
asc. node	5576 Dec 30 04:31	12° る 58'56			5577 Oct 31 19:33	0° ∡ ¹	
min. Earth dist.	5576 Dec 30 20:30	12° る 07'05	0.67611 AU	evening max el	5577 Nov 21 11:30	26° х 29'46	26°02'44
inferior conj	5576 Dec 31 20:39	10° る 47'33	0°33'45	Ü	5577 Nov 25 11:55	8°0	
minimum elong	5576 Dec 31 19:50	10°る50'15	0°33'26	retrograde	5577 Dec 04 01:10	3° ට 37'59	
morning rise	5577 Jan 06 08:24	4° ප් 48'45		evening set	5577 Dec 10 05:40	1° る 05'33	
direct	5577 Jan 09 23:16	3°₹33'24		3	5577 Dec 11 10:29	30°R ✓	
morning max el	5577 Jan 17 08:11	7° る 42'02	19°44'19	min. Earth dist.	5577 Dec 14 11:40	26° х 33′59	0.66803 AU
greatest brilliancy	5577 Jan 30 08:31	24° る 46'39	-0.7m	inferior conj	5577 Dec 15 23:04	24° ∡ ¹43'52	-0°22'33
,	5577 Feb 02 20:35	0° ≈		minimum elong	5577 Dec 15 23:40	24° ≯ ⁴42'00	0°22'15
desc. node	5577 Feb 04 07:10	2°≈10'26		asc. node	5577 Dec 17 01:33	23° × ⁷ 22'23	
morning set	5577 Feb 12 02:49	14° ≈ 07'30		morning rise	5577 Dec 21 18:11	18° ₹ 54'14	
Ü	5577 Feb 22 07:03	0°) €		direct	5577 Dec 24 21:57	17° ∡ 57′20	
max. Earth dist.	5577 Feb 23 21:26	2°) 32'01	1.44365 AU	morning max el	5577 Dec 31 16:47	21° ∡ ¹40'58	18°50'38
					5578 Jan 07 09:39	0°る	
superior conj	5577 Feb 28 15:08	10°) 07'19	-2°04'47	desc. node	5578 Jan 22 04:10	22° る 34'41	
minimum elong	5577 Feb 28 10:34	9°) 48'52	2°04'36	morning set	5578 Jan 22 12:45	23° る 08'15	
Č	5577 Mar 12 15:34	$_{0}$ $^{\circ}$ Υ		Č	5578 Jan 26 21:54	0° ≈	
evening rise	5577 Mar 14 04:33	2° Y 36'31		max. Earth dist.	5578 Feb 06 14:34	16° ≈ 44'54	1.45203 AU
asc. node	5577 Mar 28 03:45	25° Y 21'02					
	5577 Mar 31 20:29	0°8		superior conj	5578 Feb 08 00:17	18° ≈ 57'21	-1°41'04
evening max el	5577 Apr 01 13:18	0° 8 43'45	18°14'06	minimum elong	5578 Feb 07 15:00	18° ≈ 20'51	1°40'13
retrograde	5577 Apr 07 22:58	4° 8 08'06		8	5578 Feb 14 23:57	0°) €	
evening set	5577 Apr 10 21:28	3° 8 22'27		evening rise	5578 Feb 23 06:08	13°) 14′50	
S	5577 Apr 15 02:40	30°R Y		Ü	5578 Mar 05 16:07	$0^{\circ}\Upsilon$	
inferior conj	5577 Apr 16 22:14	28° Y '02'52	3°26'13	asc. node	5578 Mar 15 00:48	13° Ƴ 07'32	
minimum elong	5577 Apr 16 23:25	27° Ƴ 59'34	3°26'07	evening max el	5578 Mar 16 00:55	14° Ƴ 11'45	18°40'04
min. Earth dist.	5577 Apr 19 12:08	25° Ƴ 12'11	0.63393 AU	retrograde	5578 Mar 22 15:33	17° Y 50'55	
morning rise	5577 Apr 23 00:16	21° Y 54'20		evening set	5578 Mar 25 20:31	16° Y 52′25	
direct	5577 Apr 29 20:25	19° Ƴ 14'17		inferior conj	5578 Mar 31 13:02	11° Υ 15'14	3°31'20
desc. node	5577 May 03 06:27	19° Ƴ 49'40		minimum elong	5578 Mar 31 12:43	11° Y 16'13	
morning max el	5577 May 13 17:49		27°44'50	min. Earth dist.	5578 Apr 02 11:27	8° Y 54'15	0.65171 AU
Ü	5577 May 16 08:30	0°8		morning rise	5578 Apr 06 04:21	5° Υ 01'26	
	5577 Jun 06 07:14	$\Pi^{\circ}0$		direct	5578 Apr 12 19:41	2° Υ 12'14	
morning set	5577 Jun 17 07:43	20° Ⅱ 25'50		desc. node	5578 Apr 20 03:28	4° Υ 54'11	
Z .	5577 Jun 21 23:27	0°ಅ		morning max el	5578 Apr 26 03:58	10° Ƴ 03'10	27°04'15
max. Earth dist.	5577 Jun 22 11:48	1°905'15	1.32765 AU		5578 May 11 20:39	0°8	
asc. node	5577 Jun 24 03:00	4°934'03			5578 May 29 18:05	0°II	
				morning set	5578 May 31 19:27	3° Ⅱ 54'58	
superior conj	5577 Jun 25 02:34	6°5540'48	0°10'12	max. Earth dist.	5578 Jun 05 06:49	12° ∏ 46′21	1.33888 AU
minimum elong	5577 Jun 25 02:05	6°538'08	0°10'03				
behind sun begin	5577 Jun 24 21:56	6°915'46		superior conj	5578 Jun 09 04:57	20° Ⅱ 52'31	-0°18'27
behind sun end	5577 Jun 25 06:14	7° © 00'30		minimum elong	5578 Jun 09 05:55	20° I 57'39	
evening rise	5577 Jul 02 02:35	21°5647'46		asc. node	5578 Jun 11 00:02	24° I I39'44	
3.0	5577 Jul 06 01:41	0°Ω			5578 Jun 13 12:20	0°9	
evening max el	5577 Jul 25 03:35	29° Ω 02'06	23°16'32	evening rise	5578 Jun 16 13:12	6°\$25'16	
Johnna mun Ci	5577 Jul 26 04:17	0° mp	25 10 52	0,011115 1150	5578 Jun 29 06:31	0°Ω	
	55,, vai 20 07.1/	יעי י			55,55un 27 00.51	~ UC	

evening max el	5578 Jul 06 20:10	9° Ω 27'17	21941102	evening max el	5579 Jun 19 00:03	20° © 25'18	20010100
desc. node	5578 Jul 17 02:42	9862717 $15^{\circ}\Omega 25'53$	21 41 03	retrograde	5579 Jun 29 20:05	20 \$23 18 25°\$43'52	20 1900
retrograde	5578 Jul 19 06:48	15° Ω 37'01		evening set	5579 Jul 01 18:55	25° © 34'15	
•	5578 Jul 21 20:42	$15^{\circ} \Omega 21'57$		desc. node	5579 Jul 03 23:44	25°901'56	
evening set			2052140				200.412.0
inferior conj	5578 Jul 31 04:17	11° Ω 20'48		inferior conj	5579 Jul 10 22:43	21°936'24	
minimum elong	5578 Jul 30 19:19	11° Ω 33'20		minimum elong	5579 Jul 10 16:56	21°544'54	
min. Earth dist.	5578 Jul 30 22:39	11° Ω 28'41	0.54829 AU	min. Earth dist.	5579 Jul 12 10:26	20°544'03	0.54984 AU
morning rise	5578 Aug 08 19:13	7° Ω 29'21		morning rise	5579 Jul 19 13:45	17°524'41	
direct	5578 Aug 12 04:14	7° Ω 04'31		direct	5579 Jul 23 14:41	16° © 49'22	
morning max el	5578 Aug 24 10:41	12° Ω 50'33	21°58'15	morning max el	5579 Aug 06 02:39	23° © 23'47	23°41'16
	5578 Sep 06 02:33	0° m)			5579 Aug 12 01:01	0 $^{\circ}\Omega$	
asc. node	5578 Sep 06 23:19	1° m 32'09		asc. node	5579 Aug 24 20:21	20° Ω 46′13	
morning set	5578 Sep 14 14:06	16° Mp 31'00			5579 Aug 29 09:45	0°Щ	
	5578 Sep 20 22:54	0∘ ⊽		morning set	5579 Aug 30 01:39	1° TD 23'50	
	5570 C 21 10:20	10 0 42100	1042142		5570 C 0(01.10	1 (0 m. 27 100	1027107
superior conj	5578 Sep 21 18:28	1° Ω 43'08	1°42'43	superior conj	5579 Sep 06 01:10	16° Mp 27'09	1°37'07
minimum elong	5578 Sep 21 17:59	1° £ 40'34	1°42'43	minimum elong	5579 Sep 05 23:38	16° m 18'53	1°37'01
max. Earth dist.	5578 Sep 25 11:49	9° £ 25'50	1.34596 AU	max. Earth dist.	5579 Sep 08 10:17	21°m/33'16	1.33287 AU
evening rise	5578 Sep 29 22:30	18° ≙ 14'46			5579 Sep 12 11:37	0∘ ⊽	
	5578 Oct 06 07:19	0°M,		evening rise	5579 Sep 13 13:38	2° £ 11′23	
desc. node	5578 Oct 13 01:55	11°ML22'47			5579 Sep 29 04:07	0° M	
	5578 Oct 26 00:37	0° ∡		desc. node	5579 Sep 29 22:59	1°M13'04	
evening max el	5578 Nov 04 00:11	10° ∡ '07'24	26°55'08	evening max el	5579 Oct 17 12:17	23°M29'11	27°23'56
retrograde	5578 Nov 17 04:37	17° ∡ ¹25'05			5579 Oct 26 23:24	0°⊀	
evening set	5578 Nov 23 21:06	14° ∡ °45′58		retrograde	5579 Oct 31 02:08	0° ∡ ¹47'34	
min. Earth dist.	5578 Nov 27 20:37	10° ∡ ¹49'37	0.65642 AU		5579 Nov 03 23:34	30°RM₊	
inferior conj	5578 Nov 29 19:44	8° ∡ ³33'48	-1°23'37	evening set	5579 Nov 07 03:10	28° ™ 09'48	
minimum elong	5578 Nov 29 22:07	8° ∡¹ 26'55	1°22'36	min. Earth dist.	5579 Nov 10 21:16	24°M46'57	0.64142 AU
asc. node	5578 Dec 03 22:36	4° ≯ 18'42		inferior conj	5579 Nov 13 08:13	22°M12'28	-2°27'33
morning rise	5578 Dec 06 00:07	2° ∡ 755'54		minimum elong	5579 Nov 13 12:34	22°M01'03	2°25'53
direct	5578 Dec 08 18:46	2° ∡ 13'44		morning rise	5579 Nov 19 23:24	16°M49'11	
morning max el	5578 Dec 15 06:50	5° ∡ ¹43'20	18°13'14	asc. node	5579 Nov 20 19:37	16°M31'40	
	5578 Dec 31 22:04	0°ಕ		direct	5579 Nov 22 11:22	16° ™ 17'45	
morning set	5579 Jan 03 02:59	3° ට 35'07		morning max el	5579 Nov 28 23:35	19° ™ 42'36	17°52'52
desc. node	5579 Jan 09 01:11	13° ප 10'01			5579 Dec 06 15:55	0° ∡ ¹	
				morning set	5579 Dec 15 21:33	15° ∡ ¹25'25	
superior conj	5579 Jan 18 04:02	27° る 39'46	-1°00'43	•	5579 Dec 24 13:34	8°0	
minimum elong	5579 Jan 17 20:41	27°る10'47	0°59'46	desc. node	5579 Dec 26 22:13	3° る 52'52	
Č	5579 Jan 19 15:43	0° ≈					
max. Earth dist.	5579 Jan 20 09:41	1°≈10'32	1.45308 AU	superior conj	5579 Dec 28 22:25	7° る 08'59	-0°14'05
evening rise	5579 Feb 03 09:12	23° ≈ 00'12		minimum elong	5579 Dec 28 20:47	7° る 02'26	
3	5579 Feb 07 20:59	0°) €		behind sun begin	5579 Dec 28 15:33	6° ප 41'11	
greatest brilliancy	5579 Feb 15 06:21	11° ¥ 23'52	-0.7m	behind sun end	5579 Dec 29 02:02	7° る 23'39	
evening max el	5579 Feb 27 08:58	27°) 43'49	19°23'15	max. Earth dist.	5580 Jan 03 04:15	15° る 33'11	1.44686 AU
asc. node	5579 Mar 01 21:52	29° H 59'23	17 23 13	max. Earth dist.	5580 Jan 12 10:13	0°≈	1.11000710
ase. node	5579 Mar 01 22:12	0° Υ		evening rise	5580 Jan 13 21:29	2°≈15'42	
retrograde	5579 Mar 06 12:17	1° Υ 48'42		evening rise	5580 Feb 01 11:57	0°) €	
evening set	5579 Mar 10 00:33	0° Υ 36'35		evening max el	5580 Feb 10 12:02	11°) 17'57	20°21'34
evening set	5579 Mar 10 19:54	30° R ₩		asc. node	5580 Feb 16 18:55	15°) (42'21	20 21 34
inferior conj	5579 Mar 15 11:54	24° H 43'53	3°21'38	retrograde	5580 Feb 18 10:31	15° H 56'50	
minimum elong	5579 Mar 15 10:26	24° X 48'43	3°21'27	evening set	5580 Feb 22 07:22	14° X 30'30	
•		24 \(\)(4843\) 23°\(\)(01'58\)	0.66545 AU	•	5580 Feb 27 16:03	8° H 24'18	3°00'15
min. Earth dist.	5579 Mar 16 19:11		0.00343 AU	inferior conj			
morning rise	5579 Mar 20 19:59	18° ¥ 28'33		minimum elong	5580 Feb 27 13:52	8° ¥ 31'42	
direct	5579 Mar 27 01:24	15°) 42'43		min. Earth dist.	5580 Feb 28 09:24	7°) (25'13	0.67495 AU
desc. node	5579 Apr 07 00:29	21°) 39'40	25057120	morning rise	5580 Mar 03 20:09	2°) (09'47	
morning max el	5579 Apr 08 13:50	23° ¥ 10′50	25°57'30	t' .	5580 Mar 07 06:52	30°R≈	
	5579 Apr 14 14:53	0°Υ		direct	5580 Mar 09 12:37	29°≈37'25	
	5579 May 05 04:41	0° 8			5580 Mar 11 21:21	0°) (27110	24024117
morning set	5579 May 14 17:44	16° 8 41'50	105150 :==	morning max el	5580 Mar 20 22:29	6° ¥ 27'10	24°34'17
max. Earth dist.	5579 May 18 14:22	23° 8 58'32	1.35468 AU	desc. node	5580 Mar 23 21:30	9°) (38′12	
	5579 May 21 16:18	Π $^{\circ}0$			5580 Apr 08 05:05	0° Υ	
		_		morning set	5580 Apr 25 21:21	28° Y 31′26	
superior conj	5579 May 23 23:41	4° Ⅱ 37'45			5580 Apr 26 17:26	0°8	
minimum elong	5579 May 24 02:24	4° ∏ 51′28	0°47'59	max. Earth dist.	5580 Apr 29 12:18	5° 8 00'08	1.37450 AU
asc. node	5579 May 28 21:06	14° Ⅱ 40′08					
evening rise	5579 May 31 20:34	20° Ⅱ 48'44		superior conj	5580 May 06 07:35	17° 8 47'32	
	5579 Jun 05 10:49	0 \circ		minimum elong	5580 May 06 11:55	18° 8 08'34	1°17'25

ovenine vice	5580 May 12 11:59 5580 May 14 22:13	0°П 4°П50'36		max. Earth dist.	5581 Apr 11 07:49	16° Ƴ 27'35 0° ႘	1.39649 AU
evening rise asc. node	5580 May 14 22:13	4° I I30'36 4° I I30'26			5581 Apr 18 21:58	0.0	
asc. node	5580 May 14 18:10 5580 May 29 17:52	0°95		superior conj	5581 Apr 19 00:36	0° 8 12'07	1044'22
evening max el	5580 May 31 16:31		19°15'54	minimum elong	5581 Apr 19 05:44	0° 8 35'46	1°43'50
retrograde	5580 Jun 09 19:19	6°933'17	17 13 54	evening rise	5581 Apr 28 15:12	18° 8 23'24	1 43 30
evening set	5580 Jun 11 18:24	6°921'47		asc. node	5581 May 01 15:12	24° 8 06'05	
desc. node	5580 Jun 19 20:46	2°927'53		use. Houe	5581 May 04 20:05	0° I	
inferior conj	5580 Jun 20 05:56	2°912'41	-0°06'50	evening max el	5581 May 14 19:07	14° Ⅱ 24'39	18°33'10
minimum elong	5580 Jun 20 05:39	2°913'10		retrograde	5581 May 22 13:04	18° Ⅱ 14'28	10 33 10
transit middle	5580 Jun 20 05:39	2°513'10		evening set	5581 May 24 18:19	17° I I56'39	
transit begin	5580 Jun 20 02:10	2°918'57		inferior conj	5581 Jun 01 09:47	13° Ⅱ 28'19	1°30'12
transit end	5580 Jun 20 09:08	2°907'23		minimum elong	5581 Jun 01 12:44	13° Ⅲ 22'35	1°29'13
min. Earth dist.	5580 Jun 23 00:39	0°522'27	0.56075 AU	min. Earth dist.	5581 Jun 04 18:44	10° Ⅱ 52'07	0.57867 AU
	5580 Jun 23 14:48	30°RⅡ		desc. node	5581 Jun 06 17:47	9° Ⅱ 30′23	
morning rise	5580 Jun 28 13:54	27° II 27'08		morning rise	5581 Jun 09 03:54	8° Ⅲ 07'48	
direct	5580 Jul 03 12:19	26° Ⅲ 31'12		direct	5581 Jun 14 23:51	6° Ⅱ 41'38	
	5580 Jul 13 04:04	0ංම		morning max el	5581 Jun 29 09:00	14° Ⅱ 19'18	26°46'04
morning max el	5580 Jul 17 16:03	3°5643'35	25°22'36		5581 Jul 11 21:47	0 \circ \odot	
	5580 Aug 05 08:41	$0^{\circ}\Omega$			5581 Jul 28 11:54	$0^{\circ}\Omega$	
asc. node	5580 Aug 10 17:23	10° Ω 22'02		morning set	5581 Jul 28 23:17	0° Ω 59'51	
morning set	5580 Aug 13 13:15	16° Ω 15′02		asc. node	5581 Jul 28 14:26	0° £ 13′20	
	5580 Aug 19 20:55	0° m)					
				superior conj	5581 Aug 04 23:02	16° Ω 12'59	1°09'59
superior conj	5580 Aug 20 11:20	1° m 19'09	1°26'00	minimum elong	5581 Aug 04 20:44	16° Ω 00′20	1°09'36
minimum elong	5580 Aug 20 09:11	1° ™ 07'23	1°25'44	max. Earth dist.	5581 Aug 05 02:42	16° Ω 33'16	1.31959 AU
max. Earth dist.	5580 Aug 21 16:17	3° ™ 57'46	1.32411 AU		5581 Aug 11 06:43	0° ™	
evening rise	5580 Aug 27 13:37	16° Mp 32′03		evening rise	5581 Aug 11 19:40	1° m 08'31	
	5580 Sep 03 10:17	0ಂ ಹ			5581 Aug 27 11:10	0∘ ⊽	
desc. node	5580 Sep 15 20:01	20° ≏ 29'48		desc. node	5581 Sep 02 17:02	8° ჲ 59'34	
	5580 Sep 22 23:54	0°M₊		evening max el	5581 Sep 11 01:24	18° ≏ 30′26	26°48'41
evening max el	5580 Sep 28 21:38	6°M21'12	27°23'01	retrograde	5581 Sep 24 23:03	25° ≏ 39'44	
retrograde	5580 Oct 12 16:36	13°M35'15		evening set	5581 Oct 01 20:50	23° £ 37′23	
evening set	5580 Oct 19 20:30	11°M09'21		min. Earth dist.	5581 Oct 05 15:25	21° ≏ 00'18	0.60315 AU
min. Earth dist.	5580 Oct 23 11:49	8°M14'46	0.62335 AU	inferior conj	5581 Oct 08 20:27	18° ≏ 22'44	
inferior conj	5580 Oct 26 09:36	5°M31'46		minimum elong	5581 Oct 09 02:47	18° Ω 09'42	4°27'02
minimum elong	5580 Oct 26 15:35	5°M17'45	3°29'14	morning rise	5581 Oct 16 10:48	13° Ω 38'56	
morning rise	5580 Nov 02 12:26	0°M26'29		direct	5581 Oct 18 18:17	13° £ 18'37	
direct	5580 Nov 04 20:31	0°M02'09		asc. node	5581 Oct 24 13:41	15° £ 33'42	10007103
asc. node	5580 Nov 06 16:38	0°M17'41	17050127	morning max el	5581 Oct 26 04:35	16° £ 58'37	18°07'03
morning max el	5580 Nov 11 15:55	3°M30'24	17°50'26		5581 Nov 04 09:38	0°M	
morning set	5580 Nov 27 14:15	28° M .19'15 0° ∡ 7		morning set	5581 Nov 10 22:46	11°ML57'38	
	5580 Nov 28 12:48	0 x .		superior conj	5581 Nov 20 15:18	29°M50'03	1°01'52
superior conj	5580 Dec 08 18:10	17° ∡ 52'43	0°28'33	minimum elong	5581 Nov 20 13:18 5581 Nov 20 19:10	0° ₹ 07'22	1°01'32
minimum elong	5580 Dec 08 18:10	18° × 03'40		minimum clong	5581 Nov 20 17:31	0°×7	1 01 22
desc. node	5580 Dec 12 19:16	24° ₹ 39'26	0 20 12	max. Earth dist.	5581 Nov 28 07:07	13° × ⁷ 07'31	1.41612 AU
max. Earth dist.	5580 Dec 15 20:03	29° × ⁷ 37'28	1.43403 AU	desc. node	5581 Nov 29 16:16	15° × 26'00	1.41012710
max. Earth dist.	5580 Dec 16 01:36	0° ਰ	1.13 103 110	evening rise	5581 Dec 03 12:32	21° х 43'34	
evening rise	5580 Dec 23 09:48	11° ට 38'54			5581 Dec 08 18:07	0°ਰ	
	5581 Jan 04 13:13	0° ≈			5581 Dec 29 17:43	0° ≈	
evening max el	5581 Jan 23 09:41	24°≈53'52	21°31'52	evening max el	5582 Jan 06 02:29	8° ≈ 31'34	22°49'46
<i>y</i>	5581 Jan 30 19:08	0°) €		retrograde	5582 Jan 16 03:44	14° ≈ 29'33	
retrograde	5581 Feb 01 08:10	0°) 11′52		evening set	5582 Jan 20 22:21	12° ≈ 31'59	
asc. node	5581 Feb 02 15:55	0°) €02'33		asc. node	5582 Jan 20 12:56	12° ≈ 50'49	
	5581 Feb 02 19:57	30° R ≈		inferior conj	5582 Jan 26 07:18	6°≈08'20	1°50'02
evening set	5581 Feb 05 15:10	28° ≈ 29'59		minimum elong	5582 Jan 26 05:09	6°≈15'45	1°49'19
inferior conj	5581 Feb 10 23:10	22° ≈ 13'33	2°29'17	min. Earth dist.	5582 Jan 26 00:25	6° ≈ 32'10	0.68157 AU
minimum elong	5581 Feb 10 20:47	22° ≈ 21'51	2°28'36	morning rise	5582 Jan 31 11:53	0° ≈ 00'05	
min. Earth dist.	5581 Feb 11 03:54	21° ≈ 57'07	0.68025 AU	-	5582 Jan 31 11:55	30° ₹ ⋜	
morning rise	5581 Feb 16 02:12	16° ≈ 01'27		direct	5582 Feb 04 23:25	28° ප් 10'28	
direct	5581 Feb 21 04:16	13° ≈ 49′03			5582 Feb 09 22:39	0°≈	
morning max el	5581 Mar 03 07:45	19° ≈ 49'59	23°05'00	morning max el	5582 Feb 13 21:09	3° ≈ 21'42	21°38'41
desc. node	5581 Mar 10 18:32	28° ≈ 29′20		desc. node	5582 Feb 25 15:32	17° ≈ 57'57	
	5581 Mar 11 22:33	0° ∀			5582 Mar 05 23:38	0°) €	
	5581 Apr 01 09:49	$0^{\circ}\Upsilon$		morning set	5582 Mar 17 22:54	18°) €25'12	
morning set	5581 Apr 07 00:22	9° Ƴ 08'34		max. Earth dist.	5582 Mar 24 07:51	28°) 46′03	1.41785 AU

	5582 Mar 25 01:40	0°Υ			5583 Feb 27 01:32	0°) €	
				max. Earth dist.	5583 Mar 06 14:56		1.43577 AU
superior conj	5582 Mar 31 21:50	11° Y 39'22	-2°03'15				
minimum elong	5582 Apr 01 01:40	11° Y 56'04	2°03'05	superior conj	5583 Mar 12 18:52	22°) €00'37	-2°09'19
	5582 Apr 11 02:52	$0^{\circ}S$		minimum elong	5583 Mar 12 18:05	21° ∺ 57′21	2°09'18
evening rise	5582 Apr 11 19:49	1° 8 17'42			5583 Mar 17 13:15	0° Υ	
asc. node	5582 Apr 18 12:13	13° 8 21'01	10010122	evening rise	5583 Mar 25 07:46	13° Y 24′28	
evening max el	5582 Apr 28 04:18	27° ႘ 13'14 0° Ⅱ	18°10'32		5583 Apr 04 00:33	0° と 2° と 08'49	
retrograde	5582 May 02 00:14 5582 May 05 01:15	0° П 41'31		asc. node evening max el	5583 Apr 05 09:14 5583 Apr 11 16:47	10° 8 23'18	18°07'23
evening set	5582 May 07 13:25	0° Ⅱ 41'31		retrograde	5583 Apr 18 03:49	13° 8 45'09	10 07 23
e venning see	5582 May 08 04:02	30° ₹ 8		evening set	5583 Apr 20 22:33	13° 8 06'46	
inferior conj	5582 May 14 10:47	25° 8 25'26	2°36'43	inferior conj	5583 Apr 27 05:41	7° 8 58'10	3°14'51
minimum elong	5582 May 14 14:05	25° 8 17'54	2°35'55	minimum elong	5583 Apr 27 07:48	7° 8 52'41	3°14'33
min. Earth dist.	5582 May 17 19:07	22° 8 24'28	0.60023 AU	min. Earth dist.	5583 Apr 30 03:52	4° 8 57'09	0.62217 AU
morning rise	5582 May 21 12:11	19° 8 38'08		morning rise	5583 May 03 15:25	1° 8 54'46	
desc. node	5582 May 24 14:48	18° 8 10'35			5583 May 07 04:03	30° ₹Ƴ	
direct	5582 May 28 00:05	17° 8 37'58		direct	5583 May 10 11:02	29° Y 25'46	
morning max el	5582 Jun 11 08:28	25° 8 31'38	27°38'25	desc. node	5583 May 11 11:49	29° Y 28′58	
	5582 Jun 15 11:48	0°II			5583 May 13 21:31	0°8	27052110
	5582 Jul 05 07:44	0°© 15° © 32'37		morning max el	5583 May 24 13:52 5583 Jun 10 18:57	7° ႘ 26'44 0° Ⅱ	2/°53'10
morning set asc. node	5582 Jul 13 06:02 5582 Jul 15 11:29	20°514'24		morning set	5583 Jun 10 18:57 5583 Jun 27 07:28	0° Ⅱ 29° Ⅱ 46'53	
max. Earth dist.	5582 Jul 19 13:44	20 \$1424 29°\$08'16	1.31921 AU	morning set	5583 Jun 27 10:03	0°9	
max. Latur dist.	5582 Jul 19 23:08	0°Ω	1.51)21 AU	asc. node	5583 Jul 02 08:30	10° © 20'31	
	25.00	~ ~ ~		max. Earth dist.	5583 Jul 02 21:22	11° 5 29'43	1.32320 AU
superior conj	5582 Jul 20 10:29	1° Ω 02'37	0°49'39				
minimum elong	5582 Jul 20 08:31	0° Ω 51'48	0°49'15	superior conj	5583 Jul 04 19:58	15°5942'24	0°25'32
evening rise	5582 Jul 27 05:28	15° Ω 53′22		minimum elong	5583 Jul 04 18:48	15° © 36'05	0°25'16
	5582 Aug 03 05:08	0° m ∕			5583 Jul 11 09:34	$0^{\circ}\Omega$	
desc. node	5582 Aug 20 14:02	26° Mp 23'32		evening rise	5583 Jul 11 17:04	0° Ω 40′01	
evening max el	5582 Aug 23 21:29	-	25°42'29		5583 Jul 27 19:26	0°Щ	
	5582 Aug 24 01:42	0° ⊽		evening max el	5583 Aug 05 11:00	10° m 26'33	24°12'57
retrograde	5582 Sep 06 20:17	6° £ 55'37		desc. node	5583 Aug 07 11:04	12° Mp 15'00	
evening set min. Earth dist.	5582 Sep 12 23:20 5582 Sep 17 09:34	5° Ω 27'14 2° Ω 50'36	0.58248 AU	retrograde evening set	5583 Aug 19 06:14 5583 Aug 24 01:19	17° m 23'21 16° m 32'20	
inferior conj	5582 Sep 20 13:21	0° £ 36'01		min. Earth dist.	5583 Aug 29 21:48	13° m 37'09	0.56419 AU
minimum elong	5582 Sep 20 17:20	0° £ 28'55	5°09'00	inferior conj	5583 Sep 01 10:01	12° mp 03'23	
g	5582 Sep 21 09:40	30°R ™	2 0 0 00	minimum elong	5583 Sep 01 08:15	12° Mp 06'10	
morning rise	5582 Sep 28 13:37	26° m 15'33		morning rise	5583 Sep 09 17:37	8° m 03'24	
direct	5582 Oct 01 00:03	25° m 56'50		direct	5583 Sep 12 10:30	7° ™ 44'10	
	5582 Oct 09 10:56	0∘ ⊽		morning max el	5583 Sep 22 05:37	12°Mp 18'56	19°43'14
morning max el	5582 Oct 09 10:16	29° m 58'25	18°44'14	asc. node	5583 Sep 28 07:46	19° m 41'15	
asc. node	5582 Oct 11 10:43	2° Ω 06'56			5583 Oct 04 11:02	0。 ত	
morning set	5582 Oct 25 18:22	26° ≙ 07'12		morning set	5583 Oct 09 21:28	10° ≏ 37'18	
	5582 Oct 27 18:00	0° M ₊			5502.0 + 17.10.20	260 0 20156	1020102
superior conj	5582 Nov 03 09:09	12° M 47'53	1°24'45	superior conj minimum elong	5583 Oct 17 18:20 5583 Oct 17 20:08	26° £ 29'56 26° £ 38'52	
minimum elong	5582 Nov 03 12:23	12 11647 33 13°M 03'08	1°24'27	minimum ciong	5583 Oct 17 20:08 5583 Oct 19 13:04	0°M	1 3/36
max. Earth dist.	5582 Nov 10 13:21	25°M54'00	1.39537 AU	max. Earth dist.	5583 Oct 23 18:11		1.37436 AU
man. Barur dibu	5582 Nov 12 21:51	0° ₹ ¹	1.57057110	evening rise	5583 Oct 27 12:24	14°M53'50	1.57 .50 110
evening rise	5582 Nov 14 13:20	2° ∡ ⁴48'32		desc. node	5583 Nov 03 10:18	26°M45'05	
desc. node	5582 Nov 16 13:16	6° ₹ 09'24			5583 Nov 05 10:11	0°⊀	
	5582 Dec 01 23:57	0°₹			5583 Nov 26 17:11	8°0	
evening max el	5582 Dec 19 16:10	22° る 12'39	24°09'35	evening max el	5583 Dec 02 04:49	5° る 56'42	25°24'38
retrograde	5582 Dec 30 20:00	28° ⋜ 46'01		retrograde	5583 Dec 14 07:53	12° ප් 55'44	
evening set	5583 Jan 05 03:23	26° る 33'18		evening set	5583 Dec 20 04:37	10° る 29'44	
asc. node	5583 Jan 07 09:58	24°る14'29	0.67014 411	min. Earth dist.	5583 Dec 24 14:35	5° る 37'43	0.67311 AU
min. Earth dist. inferior conj	5583 Jan 09 20:45 5583 Jan 10 14:40	21°る07'01 20°る06'30	0.67914 AU 1°03'32	asc. node inferior conj	5583 Dec 25 07:00 5583 Dec 25 19:28	4°る44'52 4°る04'33	0°10'34
minimum elong	5583 Jan 10 14:40 5583 Jan 10 13:14	20°る06'30	1°03′32 1°02′59	minimum elong	5583 Dec 25 19:28 5583 Dec 25 19:12	4°る04'33 4°る05'25	0°10′34 0°10′28
morning rise	5583 Jan 15 23:10	20 31121 14° る 03'40	1 02 37	transit middle	5583 Dec 25 19:12	4°る05'25	0°10'28
direct	5583 Jan 19 21:04	12°る36'33		transit begin	5583 Dec 25 17:12 5583 Dec 25 17:04	4°る12'18	0 10 20
morning max el	5583 Jan 27 17:41	17° る 05'14	20°22'08	transit end	5583 Dec 25 21:20	3° ප 58'33	
-	5583 Feb 07 01:19	0° ≈			5583 Dec 29 05:35	30°R. ✓	
desc. node	5583 Feb 12 12:33	7° ≈ 53'56		morning rise	5583 Dec 31 10:06	28° ₹ 09'11	
morning set	5583 Feb 24 23:02	26° ≈ 43'53		direct	5584 Jan 03 19:55	27° ₹ 02'12	

		_					
	5584 Jan 09 21:04	0°₹		direct	5584 Dec 17 18:13	11° ≯ 23'22	
morning max el	5584 Jan 10 22:05	0° る 59'11	19°19'25	morning max el	5584 Dec 24 09:14	14° ₹ ′59'51	18°32'33
greatest brilliancy	5584 Jan 24 05:01	18° る 43'45	-0.7m		5585 Jan 04 11:17	0°ප	
desc. node	5584 Jan 30 09:34	28° る 09'24		morning set	5585 Jan 13 19:24	14° る 44'05	
	5584 Jan 31 14:18	0° ≈		desc. node	5585 Jan 16 06:35	18° る 38'48	
morning set	5584 Feb 03 22:11	5° ≈ 08'25			5585 Jan 23 11:09	0° ≈	
max. Earth dist.	5584 Feb 17 04:35	25° ≈ 50'54	1.44807 AU				
	5584 Feb 19 19:31	0° ∀		superior conj	5585 Jan 29 19:25	9° ≈ 57'28	-1°25'27
				minimum elong	5585 Jan 29 10:06	9° ≈ 20'56	1°24'27
superior conj	5584 Feb 20 15:04	1°) (17′40	-1°57'09	max. Earth dist.	5585 Jan 29 22:59	10° ≈ 11'27	1.45346 AU
minimum elong	5584 Feb 20 07:54	0°) (49′11	1°56'42		5585 Feb 11 13:13	0° ∀	
evening rise	5584 Mar 05 22:40	24°) €35'28		evening rise	5585 Feb 14 14:12	4°) 49'16	
	5584 Mar 09 04:44	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	5585 Feb 23 13:52	19°) 04'16	-0.8m
asc. node	5584 Mar 22 06:16	20° Y 20′53			5585 Mar 02 19:27	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	5584 Mar 25 05:31	23° Ƴ 47′02	18°23'03	evening max el	5585 Mar 08 15:56	7° Ƴ 17'30	18°56'31
retrograde	5584 Mar 31 16:20	27° Ƴ 16′09		asc. node	5585 Mar 09 03:19	7° Ƴ 45'45	
evening set	5584 Apr 03 17:30	26° Y 25'14		retrograde	5585 Mar 15 10:55	11° Ƴ 05'57	
inferior conj	5584 Apr 09 14:21	20° Y 58'15	3°30'27	evening set	5585 Mar 18 18:58	10° Ƴ 01'38	
minimum elong	5584 Apr 09 14:52	20° Y 56'45	3°30'24	inferior conj	5585 Mar 24 08:57	4° Ƴ 17'46	3°28'48
min. Earth dist.	5584 Apr 11 21:53	18° Y 18'17	0.64195 AU	minimum elong	5585 Mar 24 08:05	4°Υ20'30	3°28'43
morning rise	5584 Apr 15 11:23	14° Υ 46'56	0.01170110	min. Earth dist.	5585 Mar 26 00:49	2° Υ 12'43	0.65812 AU
direct	5584 Apr 22 06:24	12° Υ 00'57		mm. Darm Gigt.	5585 Mar 27 21:55	30° ₹	0.00012110
desc. node	5584 Apr 27 08:51	13° Υ 20'02		morning rise	5585 Mar 29 20:48	28°) (03'15	
morning max el	5584 May 05 22:51	19° Υ 58'51	27031115	direct	5585 Apr 05 08:33	25° H 14'01	
morning max cr	5584 May 14 12:31	0° 8	27 31 13	desc. node	5585 Apr 14 05:52	29°) 11'11	
	5584 Jun 02 19:37	0°II		desc. Hode	•	29 χ 11111	
mamina aat	5584 Jun 10 01:08	13° Ⅱ 35'28		mamina may al	5585 Apr 15 05:31	2° Υ 56'24	26929120
morning set			1 22170 ATT	morning max el	5585 Apr 18 08:54	0° 8	20 38 29
max. Earth dist.	5584 Jun 14 21:51	23°H2/18	1.33178 AU	. ,	5585 May 08 19:05	_	
	5504 1 10 01 26	00506140	0001142	morning set	5585 May 24 07:37	26° 8 47'37	
superior conj	5584 Jun 18 01:36	0°906'48		F 4 F 4	5585 May 25 23:50	0°II	1 24500 411
minimum elong	5584 Jun 18 01:41	0°907'15	0°01'43	max. Earth dist.	5585 May 28 12:01	4°Д54'44	1.34508 AU
behind sun begin	5584 Jun 17 20:18	29° Ⅲ 38′29					
behind sun end	5584 Jun 18 07:05	0°536'03		superior conj	5585 Jun 02 01:03	14° Ⅱ 08'07	
asc. node	5584 Jun 18 05:34	0° © 27'55		minimum elong	5585 Jun 02 02:45	14° Ⅱ 16'54	0°30'47
	5584 Jun 18 00:20	0ං ව		asc. node	5585 Jun 05 02:35	20° Ⅲ 31'40	
evening rise	5584 Jun 25 04:36	15° 5 23'01		evening rise	5585 Jun 09 14:05	29° ∏ 55'13	
	5584 Jul 02 11:57	$0^{\circ}\Omega$			5585 Jun 09 15:00	0ං ව	
evening max el	5584 Jul 17 00:15	20° Ω 46'51	22°35'02		5585 Jun 27 12:57	$0^{\circ}\Omega$	
desc. node	5584 Jul 24 08:06	26° Ω 01′20		evening max el	5585 Jun 28 21:11	1° Ω 23'19	21°04'02
retrograde	5584 Jul 30 03:23	27° Ω 18'54		retrograde	5585 Jul 10 16:05	7° Ω 11'46	
evening set	5584 Aug 02 10:01	26° Ω 55'21		desc. node	5585 Jul 11 05:09	7° Ω 11'04	
min. Earth dist.	5584 Aug 10 07:47	23° Ω 27'23	0.55173 AU	evening set	5585 Jul 12 21:33	7° Ω 00'07	
inferior conj	5584 Aug 11 12:26	22° Ω 46'39	-4°40'00	inferior conj	5585 Jul 22 05:32	3° Ω 02'27	-3°10'37
minimum elong	5584 Aug 11 04:38	22° Ω 57'45	4°38'29	minimum elong	5585 Jul 21 21:14	3° Ω 14′08	3°07'58
morning rise	5584 Aug 20 01:12	18° Ω 56'51		min. Earth dist.	5585 Jul 22 18:00	2° Ω 44'54	0.54781 AU
direct	5584 Aug 23 03:39	18° Ω 34'48			5585 Jul 28 03:52	30° ₹	
morning max el	5584 Sep 03 12:42	23° Ω 53′13	21°03'41	morning rise	5585 Jul 30 21:14	29° © 05'02	
	5584 Sep 08 21:51	0° m		direct	5585 Aug 03 12:36	28° © 36'33	
asc. node	5584 Sep 14 04:49	8° Mg 02′56			5585 Aug 09 14:31	$0^{\circ}\Omega$	
morning set	5584 Sep 23 05:26	25° Mp 20'40		morning max el	5585 Aug 16 08:40	4° Ω 43'19	22°41'20
	5584 Sep 25 11:04	0∘ ⊽		asc. node	5585 Sep 01 01:51	27° Ω 00′15	
					5585 Sep 02 15:42	O° Mp	
superior conj	5584 Sep 30 14:25	10° ≙ 43'28	1°43'04	morning set	5585 Sep 07 16:11	10° Mp 11'13	
minimum elong	5584 Sep 30 14:43	10° ≙ 44'57	1°43'05				
max. Earth dist.	5584 Oct 05 03:34	19° ≙ 55'07	1.35539 AU	superior conj	5585 Sep 14 18:00	25° Mp 18'11	1°41'04
evening rise	5584 Oct 09 06:16	27° £ 50'45		minimum elong	5585 Sep 14 17:01	25° Mp 12'58	1°41'02
	5584 Oct 10 10:00	o° m ₊			5585 Sep 16 23:21	0∘ ত	
desc. node	5584 Oct 20 07:20	17° M .08'10		max. Earth dist.	5585 Sep 17 21:14	1° ≏ 54'09	1.33990 AU
	5584 Oct 28 17:25	0° ∡ ¹		evening rise	5585 Sep 22 14:43	11° ≏ 27'56	
evening max el	5584 Nov 13 17:45	19° ∡ ³39'50	26°27'29	- C	5585 Oct 02 18:21	0°M	
retrograde	5584 Nov 26 14:30	26° ₹ 52'57		desc. node	5585 Oct 07 04:24	7°M12'34	
evening set	5584 Dec 03 00:14	24° х 17'15			5585 Oct 24 03:03	0° %	
min. Earth dist.	5584 Dec 07 03:31	20° ₹ 00'25	0.66355 AU	evening max el	5585 Oct 27 06:33	3° х 12'45	27°10'43
inferior conj	5584 Dec 08 19:44	17° ₹ 58'55		retrograde	5585 Nov 09 15:17	10° ₹ 30'40	
minimum elong	5584 Dec 08 21:03	17° ∡ 754'56		evening set	5585 Nov 16 12:02	7° × 751'10	
asc. node	5584 Dec 11 04:03	15° ₹ 15'38	= -	min. Earth dist.	5585 Nov 20 09:10		0.65046 AU
morning rise	5584 Dec 14 18:33	12° × 13'37		inferior conj	5585 Nov 22 13:16	1°×745'00	
		1551			22 15.10	- 7. 15 00	

minimum elong	5585 Nov 22 16:29	1° ∡ ³36′03	1°49'11	minimum elong	5586 Nov 06 02:30	15°M02'56	2°53'02
	5585 Nov 24 03:56	30°RM₊		morning rise	5586 Nov 12 17:29	10°M00'03	
asc. node	5585 Nov 28 01:06	26°M40′52		asc. node	5586 Nov 14 22:08	9° ™ 32'16	
morning rise	5585 Nov 28 22:04	26° ™ 12'49		direct	5586 Nov 15 03:29	9° M 32'01	
direct	5585 Dec 01 13:41	25°M35'32		morning max el	5586 Nov 21 17:47	12° M 57'01	17°49'41
morning max el	5585 Dec 08 00:48	29°M01'44	18°02'28		5586 Dec 03 10:15	0° ∡ 7	
	5585 Dec 08 23:04	0°⊀		morning set	5586 Dec 08 03:11	8° ≯ 08'51	
morning set	5585 Dec 25 22:25	25° ₹ 49'22					
	5585 Dec 28 11:04	0°ರ		superior conj	5586 Dec 20 07:56	28° ₰ 754'05	0°04'56
desc. node	5586 Jan 03 03:37	9° る 18'06		minimum elong	5586 Dec 20 08:28	28° ∡ 56′15	0°04'53
				behind sun begin	5586 Dec 19 23:19	28° ∡ 18′29	
superior conj	5586 Jan 09 03:20	18° る 54'27	-0°41'00	behind sun end	5586 Dec 20 17:37	29° ∡ ³33'57	
minimum elong	5586 Jan 08 22:19	18° る 34'32	0°40'17		5586 Dec 20 23:57	0°ಕ	
max. Earth dist.	5586 Jan 12 18:55	24° る 40'46	1.45135 AU	desc. node	5586 Dec 21 00:38	0° る 02'51	
	5586 Jan 16 04:20	0° ≈		max. Earth dist.	5586 Dec 26 12:46	8° る 58'09	1.44208 AU
evening rise	5586 Jan 25 09:43	14° ≈ 19'19		evening rise	5587 Jan 04 20:01	23° る 33'03	
	5586 Feb 04 15:08	0° ∀			5587 Jan 09 01:15	0° ≈	
greatest brilliancy	5586 Feb 08 01:30	5°) €09'03	-0.7m		5587 Jan 30 01:19	0° ∀	
evening max el	5586 Feb 19 22:02	20° 米 51′06	19°46'18	evening max el	5587 Feb 02 22:41	4° ¥ 25′26	20°50'07
asc. node	5586 Feb 24 00:22	24° ∺ 10′38		asc. node	5587 Feb 10 21:24	9° ∺ 20′05	
retrograde	5586 Feb 27 08:37	25° ∺ 09'21		retrograde	5587 Feb 11 06:57	9° ∺ 20'56	
evening set	5586 Mar 03 00:28	23° ¥ 50′58		evening set	5587 Feb 15 07:55	7° ¥ 47'51	
inferior conj	5586 Mar 08 10:23		3°13'49	inferior conj	5587 Feb 20 16:03	1° ∺ 36'46	
minimum elong	5586 Mar 08 08:33	17° ¥ 58'15	3°13'32	minimum elong	5587 Feb 20 13:44	1°) 44'45	
min. Earth dist.	5586 Mar 09 11:29	16° ∺ 28'38	0.67006 AU	min. Earth dist.	5587 Feb 21 03:50	0° ¥ 56′13	0.67771 AU
morning rise	5586 Mar 13 16:25	11°) 37'07			5587 Feb 21 20:17	30° Ŗ ≈	
direct	5586 Mar 19 16:33	8° ¥ 56'17		morning rise	5587 Feb 25 19:22	25° ≈ 22'58	
morning max el	5586 Mar 31 18:19	16° ∺ 09'07	25°23'32	direct	5587 Mar 03 05:39	22° ≈ 58'46	
desc. node	5586 Apr 01 02:53	16° ∺ 30'57		morning max el	5587 Mar 14 03:06	29° ≈ 28'55	23°56'27
	5586 Apr 12 05:11	0° Υ			5587 Mar 14 15:16	0° ∀	
	5586 May 01 17:08	0°8		desc. node	5587 Mar 18 23:53	4°) ₹53'53	
morning set	5586 May 06 22:37	9° 8 11'40			5587 Apr 06 00:56	0° Υ	
max. Earth dist.	5586 May 10 15:18	16° 8 00'29	1.36280 AU	morning set	5587 Apr 18 16:32	20° Y 32'22	
				max. Earth dist.	5587 Apr 22 11:20	27° Y ′09'11	1.38375 AU
superior conj	5586 May 16 15:35	27° 8 39'05			5587 Apr 24 01:28	0°8	
minimum elong	5586 May 16 19:02	27° 8 56'14	1°00'38				
	5586 May 17 19:49	0°II		superior conj	5587 Apr 29 17:40	10° 8 30'30	
asc. node	5586 May 22 23:38	10° Ⅱ 28'09		minimum elong	5587 Apr 29 22:30	10° 8 53'30	1°29'12
evening rise	5586 May 24 19:20	14° ∏ 10′24		evening rise	5587 May 08 17:42	28° 8 00'52	
	5586 Jun 02 02:07	0.2		asc. node	5587 May 09 20:40	0° Ⅱ 12'43	
evening max el	5586 Jun 11 06:22	1200238102				—	
retrograde		12° © 38'02	19°49'33		5587 May 09 18:04	$\Pi^{\circ 0}$	
evening set	5586 Jun 21 08:21	17° © 34'19	19*4933	evening max el	5587 May 25 03:28	24° ∏ 35′24	18°55'12
•	5586 Jun 21 08:21 5586 Jun 23 06:03	17°534'19 17°524'31	19*49 33	retrograde	5587 May 25 03:28 5587 Jun 02 15:14	24°Щ35'24 28°Щ45'26	18°55'12
desc. node	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10	17°\$34'19 17°\$24'31 15°\$42'55		retrograde evening set	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24	24°П35'24 28°П45'26 28°П31'50	
desc. node inferior conj	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52	17°534'19 17°524'31 15°542'55 13°522'50	-1°13'19	retrograde evening set inferior conj	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27	24°Щ35'24 28°Щ45'26 28°Щ31'50 24°Щ15'07	0°37'49
desc. node inferior conj minimum elong	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29	17°\$34'19 17°\$24'31 15°\$42'55 13°\$22'50 13°\$28'03	-1°13'19 1°12'04	retrograde evening set inferior conj minimum elong	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30	
desc. node inferior conj minimum elong min. Earth dist.	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23	17°534'19 17°524'31 15°542'55 13°522'50 13°528'03 12°505'23	-1°13'19	retrograde evening set inferior conj minimum elong desc. node	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05	0°37'49 0°37'16
desc. node inferior conj minimum elong min. Earth dist. morning rise	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54	17°934'19 17°924'31 15°942'55 13°922'50 13°928'03 12°905'23 8°957'54	-1°13'19 1°12'04	retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05 22° II 03'00	0°37'49 0°37'16
desc. node inferior conj minimum elong min. Earth dist. morning rise direct	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22	17°534'19 17°524'31 15°524'55 13°522'50 13°528'03 12°505'23 8°557'54 8°515'25	-1°13'19 1°12'04 0.55347 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05 22° II 03'00 19° II 13'40	0°37'49 0°37'16
desc. node inferior conj minimum elong min. Earth dist. morning rise	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44	17°934'19 17°924'31 15°942'55 13°922'50 13°928'03 12°905'23 8°957'54 8°915'25 15°906'55	-1°13'19 1°12'04 0.55347 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05 22° II 03'00 19° II 13'40 18° II 05'52	0°37'49 0°37'16 0.56764 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45	17°934'19 17°924'31 15°942'55 13°922'50 13°928'03 12°905'23 8°957'54 8°915'25 15°906'55 0°\$\$\end{align**}	-1°13'19 1°12'04 0.55347 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05 22° II 03'00 19° II 13'40 18° II 05'52 25° II 31'15	0°37'49 0°37'16 0.56764 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53	17°\$34'19 17°\$24'31 15°\$42'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09	-1°13'19 1°12'04 0.55347 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56	24° ∏ 35'24 28° ∏ 45'26 28° ∏ 31'50 24° ∏ 15'07 24° ∏ 12'30 22° ∏ 43'05 22° ∏ 03'00 19° ∏ 13'40 18° ∏ 05'52 25° ∏ 31'15 0° €	0°37'49 0°37'16 0.56764 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39	-1°13'19 1°12'04 0.55347 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58	24° Π35'24 28° Π45'26 28° Π31'50 24° Π15'07 24° Π12'30 22° Π43'05 22° Π03'00 19° Π13'40 18° Π05'52 25° Π31'15 0° Ω	0°37'49 0°37'16 0.56764 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53	17°\$34'19 17°\$24'31 15°\$42'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09	-1°13'19 1°12'04 0.55347 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55	24° Π35'24 28° Π45'26 28° Π31'50 24° Π15'07 24° Π12'30 22° Π43'05 22° Π03'00 19° Π13'40 18° Π05'52 25° Π31'15 0° Φ 0° Ω 6° Ω07'27	0°37'49 0°37'16 0.56764 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\alpha\$ 16°\$\alpha\$24'09 25°\$\alpha\$03'39 0°\$\mathrm{m}\$	-1°13'19 1°12'04 0.55347 AU 24°25'41	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58	24° Π35'24 28° Π45'26 28° Π31'50 24° Π15'07 24° Π12'30 22° Π43'05 22° Π03'00 19° Π13'40 18° Π05'52 25° Π31'15 0° Ω	0°37'49 0°37'16 0.56764 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11	17°\$34'19 17°\$24'31 15°\$24'35 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\Omega\$	-1°13'19 1°12'04 0.55347 AU 24°25'41	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02	24° Π35'24 28° Π45'26 28° Π31'50 24° Π15'07 24° Π12'30 22° Π43'05 22° Π03'00 19° Π13'40 18° Π05'52 25° Π31'15 0° Φ 6° Ω07'27 9° Ω53'07	0°37'49 0°37'16 0.56764 AU 26°01'17
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\Omega\$ 10°\$\Omega\$05'53 9°\$\Omega\$55'50	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02	24° Π35'24 28° Π45'26 28° Π31'50 24° Π15'07 24° Π12'30 22° Π43'05 22° Π03'00 19° Π13'40 18° Π05'52 25° Π31'15 0° Φ 6° Ω07'27 9° Ω53'07	0°37'49 0°37'16 0.56764 AU 26°01'17
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.	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32 5586 Aug 31 23:14	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\Omega\$ 10°\$\Omega\$05'53 9°\$\Omega\$55'50 14°\$\Omega\$08'56	-1°13'19 1°12'04 0.55347 AU 24°25'41	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 13:26 5587 Aug 14 11:11	24° ∏ 35'24 28° ∏ 45'26 28° ∏ 31'50 24° ∏ 15'07 24° ∏ 12'30 22° ∏ 43'05 22° ∏ 03'00 19° ∏ 13'40 18° ∏ 05'52 25° ∏ 31'15 0° ∰ 0° ℳ 6° ℳ 07'27 9° ℳ 53'07 24° ℳ 59'52 24° ℳ 47'24	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27
desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\Omega\$ 10°\$\Omega\$05'53 9°\$\Omega\$55'50 14°\$\Omega\$08'56 25°\$\Omega\$35'05	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 13:26 5587 Aug 14 11:11 5587 Aug 15 07:25	24° \$\Pi\$ 35'24 28° \$\Pi\$ 45'26 28° \$\Pi\$ 31'50 24° \$\Pi\$ 12'30 22° \$\Pi\$ 43'05 22° \$\Pi\$ 03'00 19° \$\Pi\$ 13'40 18° \$\Pi\$ 05'52 25° \$\Pi\$ 31'15 0° \$\Pi\$ 0° \$\Omega\$ 6° \$\Omega\$ 07'27 9° \$\Omega\$ 53'07 24° \$\Omega\$ 59'52 24° \$\Omega\$ 47'24 26° \$\Omega\$ 38'57	0°37'49 0°37'16 0.56764 AU 26°01'17
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	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 08 14:50	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\Omega\$ 10°\$\Omega\$05'53 9°\$\Omega\$55'50 14°\$\Omega\$08'56 25°\$\Omega\$35'05 0°\$\Omega\$	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 13:26 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04	24° \$\Pi\$ 35'24 28° \$\Pi\$ 45'26 28° \$\Pi\$ 31'50 24° \$\Pi\$ 12'30 22° \$\Pi\$ 43'05 22° \$\Pi\$ 03'00 19° \$\Pi\$ 13'40 18° \$\Pi\$ 05'52 25° \$\Pi\$ 31'15 0° \$\Pi\$ 0° \$\Omega\$ 6° \$\Omega\$ 07'27 9° \$\Omega\$ 53'07 24° \$\Omega\$ 59'52 24° \$\Omega\$ 47'24 26° \$\Omega\$ 38'57 0° \$\Pi\$	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27
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.	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 08 14:50 5586 Sep 24 01:26	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$3'39 0°\$\mathred{m}\$08'56 25°\$\mathred{m}\$08'56 25°\$\mathred{m}\$35'05 0°\$\Omega\$ 26°\$\Omega\$49'44	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04 5587 Aug 21 12:47	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05 22° II 03'00 19° II 13'40 18° II 05'52 25° II 31'15 0° II 0° II 05'52 24° II 05'52 25° II 05'52 26° II 05'5	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27
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	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 08 14:50 5586 Sep 24 01:26 5586 Sep 26 05:07	17°\$34'19 17°\$24'31 15°\$24'55 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\mathred{m}\$ 10°\$\mathred{m}\$05'53 9°\$\mathred{m}\$05'55 0°\$\Omega\$ 26°\$\Omega\$49'44 0°\$\mathred{m}\$	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52 1.32858 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04 5587 Aug 21 12:47 5587 Aug 31 21:38	24° \$\Pi\$ 35'24 28° \$\Pi\$ 45'26 28° \$\Pi\$ 31'50 24° \$\Pi\$ 12'30 22° \$\Pi\$ 43'05 22° \$\Pi\$ 31'40 18° \$\Pi\$ 05'52 25° \$\Pi\$ 31'15 0° \$\Pi\$ 0° \$\Omega\$ 6° \$\Omega\$ 07'27 9° \$\Omega\$ 53'07 24° \$\Omega\$ 59'52 24° \$\Omega\$ 47'24 26° \$\Omega\$ 38'57 0° \$\Pi\$ 10° \$\Pi\$ 03'33 0° \$\Omega\$	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27
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 evening max el	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 02:23 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 24 01:26 5586 Sep 26 05:07 5586 Oct 09 17:37	17°\$34'19 17°\$24'31 15°\$24'35 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\mathred{m}\$ 10°\$\mathred{m}\$05'53 9°\$\mathred{m}\$55'50 14°\$\mathred{m}\$08'56 25°\$\mathred{m}\$35'05 0°\$\mathred{m}\$ 26°\$\mathred{m}\$49'44 0°\$\mathred{m}\$. 16°\$\mathred{m}\$22'31	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04 5587 Aug 21 12:47 5587 Aug 31 21:38 5587 Sep 10 22:27	24° II 35'24 28° II 45'26 28° II 31'50 24° II 15'07 24° II 12'30 22° II 43'05 22° II 03'00 19° II 13'40 18° II 05'52 25° II 31'15 0° Ø 6° № 07'27 9° № 53'07 24° № 59'52 24° № 47'24 26° № 38'57 0° M 10° M 03'33 0° Ω 15° Ω 48'44	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27 1.32158 AU
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 evening max el retrograde	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 00:32 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 24 01:26 5586 Sep 26 05:07 5586 Oct 09 17:37 5586 Oct 23 09:46	17°\$34'19 17°\$24'31 15°\$24'35 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\mathred{m}\$ 10°\$\mathred{m}\$05'53 9°\$\mathred{m}\$55'50 14°\$\mathred{m}\$08'56 25°\$\mathred{m}\$35'05 0°\$\mathred{m}\$ 26°\$\mathred{m}\$49'44 0°\$\mathred{m}\$ 16°\$\mathred{m}\$22'31 23°\$\mathred{m}\$39'26	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52 1.32858 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04 5587 Aug 21 12:47 5587 Aug 31 21:38 5587 Sep 10 22:27 5587 Sep 22 00:43	24° \$\Pi\$ 35'24 28° \$\Pi\$ 45'26 28° \$\Pi\$ 31'50 24° \$\Pi\$ 12'30 22° \$\Pi\$ 43'05 22° \$\Pi\$ 03'00 19° \$\Pi\$ 13'40 18° \$\Pi\$ 05'52 25° \$\Pi\$ 31'15 0° \$\Pi\$ 0° \$\Omega\$ 6° \$\Omega\$ 07'27 9° \$\Omega\$ 53'07 24° \$\Omega\$ 59'52 24° \$\Omega\$ 47'24 26° \$\Omega\$ 38'57 0° \$\Pi\$ 10° \$\Pi\$ 03'33 0° \$\Omega\$ 15° \$\Omega\$ 48'44 28° \$\Omega\$ 57'13	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27 1.32158 AU
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 evening max el retrograde evening set	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 24 01:26 5586 Oct 09 17:37 5586 Oct 23 09:46 5586 Oct 30 13:07	17°\$34'19 17°\$24'31 15°\$24'35 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\Omega\$ 10°\$\Omega\$05'53 9°\$\Omega\$55'50 14°\$\Omega\$08'56 25°\$\Omega\$3'05 0°\$\Omega\$ 26°\$\Omega\$49'44 0°\$\Omega\$122'31 23°\$\Omega\$3'05'00	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52 1.32858 AU	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 10 13:19 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04 5587 Aug 21 12:47 5587 Aug 31 21:38 5587 Sep 10 22:27 5587 Sep 23 04:08	24° \$\Pi\$ 35'24 28° \$\Pi\$ 45'26 28° \$\Pi\$ 31'50 24° \$\Pi\$ 12'30 22° \$\Pi\$ 43'05 22° \$\Pi\$ 03'00 19° \$\Pi\$ 13'40 18° \$\Pi\$ 05'52 25° \$\Pi\$ 31'15 0° \$\Pi\$ 0° \$\Omega\$ 6° \$\Omega\$ 07'27 9° \$\Omega\$ 53'07 24° \$\Omega\$ 59'52 24° \$\Omega\$ 47'24 26° \$\Omega\$ 38'57 0° \$\Pi\$ 10° \$\Pi\$ 03'33 0° \$\Omega\$ 15° \$\Omega\$ 48'44 28° \$\Omega\$ 57'13 0° \$\Pi\$	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27 1.32158 AU
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 evening max el retrograde	5586 Jun 21 08:21 5586 Jun 23 06:03 5586 Jun 28 02:10 5586 Jul 02 03:52 5586 Jul 02 00:29 5586 Jul 04 06:23 5586 Jul 10 16:54 5586 Jul 15 02:22 5586 Jul 28 22:44 5586 Aug 09 17:45 5586 Aug 18 22:53 5586 Aug 23 03:54 5586 Aug 25 11:11 5586 Aug 30 00:32 5586 Aug 30 00:32 5586 Aug 31 23:14 5586 Sep 06 09:55 5586 Sep 24 01:26 5586 Sep 26 05:07 5586 Oct 09 17:37 5586 Oct 23 09:46	17°\$34'19 17°\$24'31 15°\$24'35 13°\$22'50 13°\$28'03 12°\$05'23 8°\$57'54 8°\$15'25 15°\$06'55 0°\$\Omega\$ 16°\$\Omega\$24'09 25°\$\Omega\$03'39 0°\$\mathred{m}\$ 10°\$\mathred{m}\$05'53 9°\$\mathred{m}\$55'50 14°\$\mathred{m}\$08'56 25°\$\mathred{m}\$38'05 0°\$\mathred{m}\$ 26°\$\mathred{m}\$49'44 0°\$\mathred{m}\$ 16°\$\mathred{m}\$22'31 23°\$\mathred{m}\$39'26 21°\$\mathred{m}\$05'00	-1°13'19 1°12'04 0.55347 AU 24°25'41 1°33'03 1°32'52 1.32858 AU 27°27'28	retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	5587 May 25 03:28 5587 Jun 02 15:14 5587 Jun 04 16:24 5587 Jun 12 19:27 5587 Jun 12 20:55 5587 Jun 14 23:09 5587 Jun 15 22:18 5587 Jun 20 22:05 5587 Jun 26 05:47 5587 Jul 10 13:19 5587 Jul 14 17:56 5587 Aug 02 18:58 5587 Aug 05 19:55 5587 Aug 07 15:02 5587 Aug 14 11:11 5587 Aug 15 07:25 5587 Aug 16 20:04 5587 Aug 21 12:47 5587 Aug 31 21:38 5587 Sep 10 22:27 5587 Sep 22 00:43	24° \$\Pi\$ 35'24 28° \$\Pi\$ 45'26 28° \$\Pi\$ 31'50 24° \$\Pi\$ 12'30 22° \$\Pi\$ 43'05 22° \$\Pi\$ 03'00 19° \$\Pi\$ 13'40 18° \$\Pi\$ 05'52 25° \$\Pi\$ 31'15 0° \$\Pi\$ 0° \$\Omega\$ 6° \$\Omega\$ 07'27 9° \$\Omega\$ 53'07 24° \$\Omega\$ 59'52 24° \$\Omega\$ 47'24 26° \$\Omega\$ 38'57 0° \$\Pi\$ 10° \$\Pi\$ 03'33 0° \$\Omega\$ 15° \$\Omega\$ 48'44 28° \$\Omega\$ 57'13	0°37'49 0°37'16 0.56764 AU 26°01'17 1°19'47 1°19'27 1.32158 AU

min. Earth dist.	5587 Oct 16 15:19	1° ML 07'10	0.61488 AU	evening set	5588 Sep 23 15:27	16° ≏ 05'02	
	5587 Oct 17 22:06	30° ŖΩ		min. Earth dist.	5588 Sep 27 14:54	13° ≏ 30'07	0.59423 AU
inferior conj	5587 Oct 19 17:00	28° ≙ 24'08	-3°56'46	inferior conj	5588 Sep 30 20:36	11° ≏ 00'08	-4°48'41
minimum elong	5587 Oct 19 23:22	28° ≙ 10′00	3°54'56	minimum elong	5588 Oct 01 02:21	10° ≏ 48'59	4°47'39
morning rise	5587 Oct 27 00:52	23° ≏ 27'55		morning rise	5588 Oct 08 15:26	6° £ 25'58	
direct	5587 Oct 29 08:08	23° ჲ 05'46		direct	5588 Oct 10 23:34	6° ჲ 06'42	
asc. node	5587 Nov 01 19:09	23° ≏ 57'45		asc. node	5588 Oct 18 16:11	9° £ 47'59	
morning max el	5587 Nov 05 09:02	26° ≏ 38'05	17°55'07	morning max el	5588 Oct 18 19:08	9° ჲ 55'02	18°20'13
	5587 Nov 08 07:25	0°M₊			5588 Oct 31 22:15	0° M	
morning set	5587 Nov 21 03:16	21°M23'17		morning set	5588 Nov 03 17:00	5°M16'00	
	5587 Nov 25 21:00	0° ∡ ¹					
				superior conj	5588 Nov 12 21:30	22°M34'44	1°12'49
superior conj	5587 Dec 01 14:56	10° ∡ 10′30	0°43'56	minimum elong	5588 Nov 13 01:16	22°M51'57	1°12'23
minimum elong	5587 Dec 01 18:23	10° ∡ ¹25′26	0°43'27		5588 Nov 17 00:26	0° ∡	
desc. node	5587 Dec 07 21:41	20° ∡¹ 49'52		max. Earth dist.	5588 Nov 20 10:36	5° ₹ 157'25	1.40750 AU
max. Earth dist.	5587 Dec 09 02:08	22° ∡ ¹47'17	1.42687 AU	desc. node	5588 Nov 23 18:43	11° ∡ ³35′24	
	5587 Dec 13 13:01	0° ರ		evening rise	5588 Nov 25 00:39	13° ₹ 39'08	
evening rise	5587 Dec 15 12:57	3° ⋜ 09'56			5588 Dec 05 09:49	0° ප	
	5588 Jan 02 11:40	0° ≈			5588 Dec 27 18:36	0°≈	
evening max el	5588 Jan 16 18:02	18° ≈ 01'25	22°04'21	evening max el	5588 Dec 29 09:23	1° ≈ 40'46	23°23'58
retrograde	5588 Jan 26 04:00	23° ≈ 37'12		retrograde	5589 Jan 08 22:14	7° ≈ 54'30	
asc. node	5588 Jan 28 18:25	23° ≈ 01'31		evening set	5589 Jan 13 22:06	5° ≈ 50'39	
evening set	5588 Jan 30 15:38	21° ≈ 48'49		asc. node	5589 Jan 14 15:25	5° ≈ 11'35	
inferior conj	5588 Feb 04 23:51	15° ≈ 28'44	2°13'35		5589 Jan 18 21:47	30°₹ ⋜	
minimum elong	5588 Feb 04 21:31	15° ≈ 36'52	2°12'52	inferior conj	5589 Jan 19 07:54	29° る 25'17	1°31'12
min. Earth dist.	5588 Feb 04 23:35	15° ≈ 29'39	0.68126 AU	minimum elong	5589 Jan 19 06:00	29° る 31'48	1°30'30
morning rise	5588 Feb 10 03:13	9° ≈ 17'48		min. Earth dist.	5589 Jan 18 20:22	0° ≈ 04'51	0.68096 AU
direct	5588 Feb 14 23:00	7° ≈ 14'51		morning rise	5589 Jan 24 13:50	23° る 18'57	
morning max el	5588 Feb 24 13:39	12° ≈ 54'51	22°27'22	direct	5589 Jan 28 19:31	21° る 38'50	
desc. node	5588 Mar 04 20:55	24° ≈ 02'21		morning max el	5589 Feb 06 05:41	26° る 30'40	21°04'37
	5588 Mar 09 05:20	0° ∀			5589 Feb 09 10:08	0° ≈	
	5588 Mar 28 22:56	$0^{\circ}\mathbf{\Upsilon}$		desc. node	5589 Feb 19 17:57	13° ≈ 43'44	
morning set	5588 Mar 29 07:36	0° Ƴ 35′23			5589 Mar 02 17:36	0° ∀	
max. Earth dist.	5588 Apr 03 07:32	8° Ƴ 54'03	1.40580 AU	morning set	5589 Mar 08 18:59	9° ∺ 22'01	
				max. Earth dist.	5589 Mar 16 10:25	21°) 35'40	1.42604 AU
superior conj	5588 Apr 11 02:54	22° Y 32'05			5589 Mar 21 12:07	0 ° $\mathbf{\Upsilon}$	
minimum elong	5588 Apr 11 07:49	22° Y 54'15	1°53'12				
	5588 Apr 15 05:03	0°8		superior conj	5589 Mar 23 14:24	3° Y 32'55	
evening rise	5588 Apr 21 05:56	11° 8 18'16		minimum elong	5589 Mar 23 16:42	3° Y 42'42	2°07'41
asc. node	5588 Apr 25 17:41	19° 8 40'10		evening rise	5589 Apr 04 04:03	23° Y 53'41	
	5588 May 01 19:07	0°II			5589 Apr 07 13:47	0°8	
evening max el	5588 May 07 09:23		18°21'10	asc. node	5589 Apr 12 14:43	8° 8 44'43	
retrograde	5588 May 14 16:57	10° Ⅱ 47'00		evening max el	5589 Apr 20 20:31	20° 8 08'14	18°06'53
evening set	5588 May 17 01:09	10° Ⅱ 25'34		retrograde	5589 Apr 27 11:45	23° 8 31'36	
inferior conj	5588 May 24 08:33	5° Ⅱ 48'51	2°02'09	evening set	5589 Apr 30 02:54	22° 8 59'43	
minimum elong	5588 May 24 11:56	5° Ⅱ 41'48	2°01'10	inferior conj	5589 May 06 17:42	18° 8 02'16	
min. Earth dist.	5588 May 27 18:59	2° II 58'50	0.58759 AU	minimum elong	5589 May 06 20:37	17° 8 55'15	2°55'24
morning rise	5588 May 31 19:38	0° Ⅱ 15'37		min. Earth dist.	5589 May 09 22:35	14° 8 58'33	0.60974 AU
desc. node	5588 May 31 20:10	0° Ⅱ 14'54		morning rise	5589 May 13 12:13	12° 8 07'19	
t:	5588 Jun 01 07:41	30°R 8		desc. node	5589 May 18 17:11	10°800'10	
direct	5588 Jun 06 23:28	28° 8 34'32		direct	5589 May 20 04:40	9° 8 53'46	27040117
	5588 Jun 12 19:43	0°Ⅱ 6°Ⅲ	27012120	morning max el	5589 Jun 03 10:47	17° 8 50'46	2/°49'1/
morning max el	5588 Jun 21 08:48		27°12'38		5589 Jun 13 14:09	0° I I	
. ,	5588 Jul 08 23:50	0°5		. ,	5589 Jul 01 16:45	0.2 0.2	
morning set	5588 Jul 21 23:53	24°933'21		morning set	5589 Jul 06 04:38	8°958'53	
asc. node	5588 Jul 22 16:57	26°903'21		asc. node	5589 Jul 09 13:59	16°907'01	1 22045 ATT
	5588 Jul 24 13:10	0 ° Ω		max. Earth dist.	5589 Jul 12 04:31	21° © 45'44	1.32045 AU
gunariar aga:	5588 Jul 29 01:15	9° Ω 52'47	1°01'52	gunariar as-:	5500 Iul 12 12:07	24° © 38'57	0°39'51
superior conj	5588 Jul 29 01:15 5588 Jul 28 23:03	9° Ω 40'34	1°01′52 1°01′28	superior conj	5589 Jul 13 12:07	24°938'57 24°929'44	0°39'31 0°39'30
minimum elong				minimum elong	5589 Jul 13 10:26		0 27 30
max. Earth dist.	5588 Jul 28 18:23	9° Ω 14'48	1.31887 AU	avanii-	5589 Jul 15 22:28	0° Ω	
evening rise	5588 Aug 04 20:41	24° Ω 44'28		evening rise	5589 Jul 20 07:32	9° Ω 31'03	
	5588 Aug 07 09:15	0 ்⊽ 0∘∭		desc. node	5589 Jul 30 19:12	0°Mp 20°m-/1'11	
desa nodo	5588 Aug 24 20:13				5589 Aug 14 16:28	20°Mp41'11	25006125
desc. node	5588 Aug 27 19:27	3° £ 53'10	26024!11	evening max el	5589 Aug 15 18:31	21° Mp 45'27	25 00 25
evening max el retrograde	5588 Sep 03 01:24 5588 Sep 17 00:13	10° ♀ 45'43 17° ♀ 53'40	26°24'11	retrograde evening set	5589 Aug 29 16:31 5589 Sep 04 07:23	28° m/47'29 27° m/35'33	
renograue	2200 Bep 17 00.13	1/ ==33.40		evening set	5509 SEP 04 07.23	∠/ III 33 33	

min. Earth dist.	5589 Sep 09 06:01	24°m 53'06	0.57429 AU	retrograde	5590 Aug 10 20:46	8° m 59'16	
inferior conj	5589 Sep 12 05:01	24 m/55 00 22° m/54'18		evening set	5590 Aug 15 00:20	8° Mp 21'31	
minimum elong	5589 Sep 12 06:54	22° m 51'07		min. Earth dist.	5590 Aug 21 16:32	5° Mg 14'09	0.55804 AU
morning rise	5589 Sep 20 08:41	18° Mp 42'55	3 1809	inferior conj	5590 Aug 23 17:19	4° Mp 01'45	
direct	5589 Sep 22 21:38	18° m) 24'03		minimum elong	5590 Aug 23 17:19 5590 Aug 23 12:39	4° m 08'42	
morning max el	5589 Oct 01 20:39	22° Mp 38'20	19°06'34	morning rise	5590 Sep 01 03:23	0° m 08'15	3 08 18
asc. node	5589 Oct 01 20:39 5589 Oct 05 13:14	26° Mp 48'29	19 00 34	morning risc	5590 Sep 01 19:30	0 11/00 13 30°RΩ	
asc. node	5589 Oct 03 13:14 5589 Oct 07 19:48	ე° <u>ი</u>		direct	5590 Sep 04 00:09	29° Ω 48'03	
morning set	5589 Oct 07 19:48 5589 Oct 18 16:09	0 == 19° £ 35'05		direct	5590 Sep 04 00:09 5590 Sep 06 03:36	0° M)	
morning set	5589 Oct 18 10:09 5589 Oct 23 22:09	0° M		morning may al	5590 Sep 14 10:53	ابات 4° ال 039'38	20°15'02
	3389 Oct 23 22.09	U IIG		morning max el	•	4 11/3938 14° Mp44'32	20 13 02
	5500 O-+ 26 22-25	5°M52'24	1°31'30	asc. node	5590 Sep 22 10:18	14 11√44 32 0° Ω	
superior conj	5589 Oct 26 22:25				5590 Sep 30 19:47	0 <u>≈</u> 4° ≏ 12'06	
minimum elong	5589 Oct 27 01:06	6°M05'16	1°31'18	morning set	5590 Oct 02 21:39	4-221200	
max. Earth dist.	5589 Nov 02 16:02	18°M27'08	1.38636 AU		5500 0 + 10 10 47	100 0 40146	1041107
evening rise	5589 Nov 06 11:10	25°M09'54		superior conj	5590 Oct 10 12:47	19° Ω 49'46	1°41'07
	5589 Nov 09 07:11	0° ⊀ ⁷		minimum elong	5590 Oct 10 13:56	19° Ω 55'32	1°41'05
desc. node	5589 Nov 10 15:44	2° ₹ 15'42			5590 Oct 15 16:44	0°M	
	5589 Nov 29 02:09	0°る		max. Earth dist.	5590 Oct 15 22:29	0°M27'26	1.36592 AU
evening max el	5589 Dec 11 22:33	15° る 23'28	24°42'38	evening rise	5590 Oct 19 18:46	7°M38'33	
retrograde	5589 Dec 23 12:33	22° ろ 08'19		desc. node	5590 Oct 28 12:46	22°M46'48	
evening set	5589 Dec 29 01:42	19° る 49'38			5590 Nov 02 01:36	0°⊀	
asc. node	5590 Jan 01 12:28	16° る 06'34		evening max el	5590 Nov 24 11:09	29° ₰ 07'40	25°53'14
min. Earth dist.	5590 Jan 02 15:50	14° る 38'00	0.67701 AU		5590 Nov 25 09:08	0°₹	
inferior conj	5590 Jan 03 14:23	13° る 23'14	0°41'50	retrograde	5590 Dec 06 22:15	6° る 14'01	
minimum elong	5590 Jan 03 13:23	13° る 26'32	0°41'26	evening set	5590 Dec 13 00:48	3° る 43'01	
morning rise	5590 Jan 09 01:14	7° る 23'26			5590 Dec 16 14:13	30°₽ ⋌ ¹	
direct	5590 Jan 12 17:53	6° ප 05'06		min. Earth dist.	5590 Dec 17 07:46	29° ₰ 06'12	0.66949 AU
morning max el	5590 Jan 20 05:34	10°る18'24	19°53'40	inferior conj	5590 Dec 18 17:30	27° ∡ ¹20'11	-0°13'37
	5590 Feb 04 01:49	0° ≈		minimum elong	5590 Dec 18 17:52	27° ⋌ 19'04	0°13'27
desc. node	5590 Feb 06 14:58	3° ≈ 48'28		transit middle	5590 Dec 18 17:52	27° ∡ 19'04	0°13'27
morning set	5590 Feb 15 15:26	17° ≈ 33'24		transit begin	5590 Dec 18 16:18	27° х 23'59	
	5590 Feb 23 15:08	0° ∀		transit end	5590 Dec 18 19:25	27° ∡ 14′08	
max. Earth dist.	5590 Feb 26 21:09	5°) €09'00	1.44179 AU	asc. node	5590 Dec 19 09:31	26° ₹ 30'06	
				morning rise	5590 Dec 24 11:24	21° ∡ ¹29'04	
superior conj	5590 Mar 04 00:29	13° ¥ 25′00	-2°06'37	direct	5590 Dec 27 16:39	20° ∡ ¹29'44	
minimum elong	5590 Mar 03 20:55	13° ℋ 10'32	2°06'30	morning max el	5591 Jan 03 13:11	24° ∡ 16'27	18°57'34
C	5590 Mar 14 00:14	0 $^{\circ}$ $\mathbf{\Upsilon}$		Č	5591 Jan 08 09:19	8°0	
evening rise	5590 Mar 17 07:31	5° Ƴ 37'15		desc. node	5591 Jan 24 12:01	24°る10'32	
asc. node	5590 Mar 30 11:46	27° Ƴ 18'14		morning set	5591 Jan 25 21:55	26° る 22'50	
	5590 Apr 01 10:46	0°8		. 8	5591 Jan 28 05:34	0° ≈	
evening max el	5590 Apr 04 09:27	3° 8 24'38	18°11'46	max. Earth dist.	5591 Feb 09 13:21		1.45124 AU
retrograde	5590 Apr 10 19:12	6° 8 48'00					
evening set	5590 Apr 13 16:43	6° 8 04'16		superior conj	5591 Feb 11 12:03	22° ≈ 20'22	-1°45'53
inferior conj	5590 Apr 19 18:59	0° 8 47'21	3°23'52	minimum elong	5591 Feb 11 03:06	21°≈45'08	
minimum elong	5590 Apr 19 20:25	0° 8 43'25	3°23'42	g	5591 Feb 16 08:11	0° ∀	1 .5 0>
g	5590 Apr 20 12:15	30°RY	3 23 .2	evening rise	5591 Feb 26 12:34	16°) 23'34	
min. Earth dist.	5590 Apr 22 11:04	27° Υ 53'28	0.63096 AU	evening rise	5591 Mar 06 21:35	0°Υ	
morning rise	5590 Apr 25 22:55	24° Υ 39'52	0.03070710	asc. node	5591 Mar 17 08:48	15°Υ11'23	
direct	5590 May 02 19:06	22° Υ 02'24		evening max el	5591 Mar 18 21:24	16° Υ 51'04	18°35'07
desc. node	5590 May 05 14:13	22° Υ 26'04		retrograde	5591 Mar 25 10:51	20° Υ 27'25	10 33 07
dese. Hode	5590 May 16 17:04	0°8		evening set	5591 Mar 28 14:47	19° Υ 30'57	
morning max el	5590 May 16 18:08	0° 8 02'41	27°48'08	inferior conj	5591 Apr 03 08:19		3°31'34
morning max cr	5590 Jun 07 14:37	0°II	27 40 00	minimum elong	5591 Apr 03 08:12	13° Υ 56'42	3°31'33
mamina sat	5590 Jun 20 03:08	23° II 02'59		min. Earth dist.		13 γ 30 42 11° γ 30'00	0.64928 AU
morning set	5590 Jun 23 12:29	23 π 02 39			5591 Apr 05 09:06	7° Υ 42'56	0.04928 AU
max. Earth dist.	5590 Jun 25 09:48	ა. 3ალა29,02	1.32636 AU	morning rise direct	5591 Apr 09 00:59	4° Υ 54'07	
			1.32030 AU		5591 Apr 15 17:24	7° Υ 11'47	
asc. node	5590 Jun 26 11:03	6°©13'54		desc. node	5591 Apr 22 11:15		27012110
aumani ·	5500 I 27 20 12	00610125	0014!10	morning max el	5591 Apr 29 04:07	12° Y 47'37	21-12-10
superior conj	5590 Jun 27 20:13	9°512'35	0°14'19		5591 May 12 23:26	0° Β	
minimum elong	5590 Jun 27 19:32	9°508'53	0°14'10		5591 May 31 04:46	0° Ⅱ .∞ Ⅱ 27/24	
behind sun begin	5590 Jun 27 17:05	8°955'42		morning set	5591 Jun 03 16:32	6° ∏ 37′24	1.00<04 : **
behind sun end	5590 Jun 27 21:58	9°522'05		max. Earth dist.	5591 Jun 08 06:20	15° Ⅱ 44'19	1.33684 AU
evening rise	5590 Jul 04 19:22	24°©16'53			5501 X 11 22 2:	220 H 2	0012170
	5590 Jul 07 12:58	$\Omega^{\circ}\Omega$		superior conj	5591 Jun 11 23:31	23° I I27'36	
	5590 Jul 26 04:21	0° m		minimum elong	5591 Jun 12 00:15	23° ∏ 31′29	0~13'51
evening max el	5590 Jul 28 06:52	2° m 10'36	23°31'14	behind sun begin	5591 Jun 11 21:26	23° I I16'39	
desc. node	5590 Aug 01 13:29	5° m 43'44		behind sun end	5591 Jun 12 03:04	23° Ⅱ 46′19	

asc. node	5591 Jun 13 08:05	26° Ⅱ 19'56		minimum elong	5592 May 25 22:01	7° Ⅱ 29'46	0°43'27
	5591 Jun 15 01:25	0°€		asc. node	5592 May 30 05:07	16° Ⅱ 21'15	
evening rise	5591 Jun 19 06:17	8° 9 55'47		evening rise	5592 Jun 02 14:15	23° Ⅱ 21'37	
	5591 Jun 30 08:07	$0^{\circ}\Omega$			5592 Jun 05 20:55	0 \circ \odot	
evening max el	5591 Jul 09 22:18	12° Ω 33'16	21°54'43	evening max el	5592 Jun 21 00:21	23° © 25'26	20°30'09
desc. node	5591 Jul 19 10:31	18° Ω 26'29		retrograde	5592 Jul 02 02:29	28° © 51'42	
retrograde	5591 Jul 22 13:51	18° Ω 49'37		evening set	5592 Jul 04 02:29	28° © 41'50	
evening set	5591 Jul 25 07:31	18° Ω 32'51		desc. node	5592 Jul 05 07:31	28° © 26'45	
min. Earth dist.	5591 Aug 03 02:26	14° Ω 46'36	0.54884 AU	inferior conj	5592 Jul 13 07:52	24°5944'40	-2°22'18
inferior conj	5591 Aug 03 14:13	14° Ω 30′04	-4°07'33	minimum elong	5592 Jul 13 01:17	24° © 54'11	2°20'00
minimum elong	5591 Aug 03 05:20	14° £ 42'31	4°05'17	min. Earth dist.	5592 Jul 14 13:49	24° © 01'18	0.54900 AU
morning rise	5591 Aug 12 04:39	10° Ω 39'39		morning rise	5592 Jul 21 23:15	20° © 37'10	
direct	5591 Aug 15 11:45	10° Ω 15'44		direct	5592 Jul 25 21:37	20° © 03'49	
morning max el	5591 Aug 27 13:01	15° Ω 54'43	21°43'40	morning max el	5592 Aug 08 05:47	26°531'26	23°25'35
	5591 Sep 07 08:11	0° m			5592 Aug 11 14:06	$0^{\circ}\Omega$	
asc. node	5591 Sep 09 07:21	3° m 22'31		asc. node	5592 Aug 26 04:24	22° Ω 32'19	
morning set	5591 Sep 17 07:02	18° m 59'11			5592 Aug 29 22:08	o° mp	
_	5591 Sep 22 12:14	0∘ ত		morning set	5592 Aug 31 18:23	3° m 51'07	
superior conj	5591 Sep 24 12:28	4° £ 13'46	1°43'02	superior conj	5592 Sep 07 18:23	18° m 55'09	1°38'21
minimum elong	5591 Sep 24 12:10	4° £ 12'14	1°43'01	minimum elong	5592 Sep 07 16:59	18° Mp 47'37	1°38'15
max. Earth dist.	5591 Sep 28 10:49	12° ≏ 19'30	1.34826 AU	max. Earth dist.	5592 Sep 10 08:00	24° m 24'00	1.33459 AU
evening rise	5591 Oct 02 19:20	20° £ 53'57			5592 Sep 13 00:26	0₀ ⊽	
	5591 Oct 07 17:13	0° M ,		evening rise	5592 Sep 15 08:49	4° ≏ 45'29	
desc. node	5591 Oct 15 09:48	13°M02'41			5592 Sep 29 10:00	0°M₊	
	5591 Oct 26 23:12	0°⊀		desc. node	5592 Oct 01 06:48	2°M56'25	
evening max el	5591 Nov 06 23:55	12° ∡ ¹46'58	26°48'37	evening max el	5592 Oct 19 12:16	26°№11'46	27°21'25
retrograde	5591 Nov 20 02:39	20° ҂ 04'00			5592 Oct 24 01:13	0° √	
evening set	5591 Nov 26 17:23	17° ∡ ¹25'33		retrograde	5592 Nov 02 00:59	3° ∡ ³30′05	
min. Earth dist.	5591 Nov 30 17:51	13° ≮ ¹23'51	0.65840 AU	evening set	5592 Nov 09 01:00	0° ∡ 751'43	
inferior conj	5591 Dec 02 15:11	11° ⋌ 11′29	-1°14'05		5592 Nov 10 02:40	30°₽ M	
minimum elong	5591 Dec 02 17:17	11° 渘 ¹05'20	1°13'11	min. Earth dist.	5592 Nov 12 19:54	27°M23'57	0.64387 AU
asc. node	5591 Dec 06 06:34	7° ∡ 18'03		inferior conj	5592 Nov 15 05:02	24°M51'52	-2°17'49
morning rise	5591 Dec 08 18:05	5° ∡ ³31'32		minimum elong	5592 Nov 15 09:06	24°M41'04	2°16'13
direct	5591 Dec 11 13:55	4° ∡ ¹47'26		morning rise	5592 Nov 21 18:32	19°M26'04	
morning max el	5591 Dec 18 02:35	8° ∡ 18'37	18°17'39	asc. node	5592 Nov 22 03:36	19° ™ 17'05	
	5592 Jan 02 05:32	ರ°0		direct	5592 Nov 24 07:20	18°M53'14	
morning set	5592 Jan 06 07:42	6° ප 36'18		morning max el	5592 Nov 30 19:03	22°M18'12	17°54'45
desc. node	5592 Jan 11 09:03	14° පි 44'26			5592 Dec 06 19:21	0° ∡ ¹	
	5592 Jan 20 23:57	0° ≈		morning set	5592 Dec 17 22:24	18° ∡ 15′18	
					5592 Dec 24 22:40	0°ප	
superior conj	5592 Jan 21 15:20	1° ≈ 00'27	-1°07'31	desc. node	5592 Dec 28 06:04	5° පි 26'12	
minimum elong	5592 Jan 21 07:17	0° ≈ 28'50	1°06'31				
max. Earth dist.	5592 Jan 23 08:09	3° ≈ 40'39	1.45344 AU	superior conj	5592 Dec 31 06:30	10° る 19'49	-0°21'04
evening rise	5592 Feb 06 18:40	26°≈15'34		minimum elong	5592 Dec 31 04:01	10° る 09'50	0°20'42
	5592 Feb 09 04:01	0° ℋ		max. Earth dist.	5593 Jan 05 03:11	18° පි 05'32	1.44827 AU
greatest brilliancy	5592 Feb 17 23:14	13°) 41′08	-0.8m		5593 Jan 12 17:52	0° ≈	
	5592 Feb 29 21:18	0 ° $\mathbf{\gamma}$		evening rise	5593 Jan 16 08:22	5° ≈ 33'35	
evening max el	5592 Mar 01 06:05	0° Υ 22'48	19°15'51	greatest brilliancy	5593 Jan 31 01:58	27° ≈ 47'42	-0.6m
asc. node	5592 Mar 03 05:49	2° Υ 12'15		•	5593 Feb 01 14:22	0°) €	
retrograde	5592 Mar 08 07:04	4° Ƴ 23'07		evening max el	5593 Feb 12 09:58	13°) € 56'48	20°12'01
evening set	5592 Mar 11 18:11	3° Y 13'06		asc. node	5593 Feb 18 02:50	18°) €06'37	
	5592 Mar 15 03:44	30° ₹ ₩		retrograde	5593 Feb 20 05:08	18°) 29′56	
inferior conj	5592 Mar 17 06:09	27° ∺ 22'43	3°23'53	evening set	5593 Feb 24 00:40	17° ₩ 05'29	
minimum elong	5592 Mar 17 04:49	27°) €27'02	3°23'44	inferior conj	5593 Mar 01 09:37	11°) €01'23	3°04'07
min. Earth dist.	5592 Mar 18 15:40	25°) 34'31	0.66367 AU	minimum elong	5593 Mar 01 07:31	11°) €08'29	3°03'43
morning rise	5592 Mar 22 15:06	21°) €07'30		min. Earth dist.	5593 Mar 02 04:57	9°) 55'56	0.67385 AU
direct	5592 Mar 28 22:18	18°) €20'19		morning rise	5593 Mar 06 14:08	4°) (46'45	
desc. node	5592 Apr 08 08:17	23°) (43'52		direct	5593 Mar 12 08:42	2°) 11′55	
morning max el	5592 Apr 10 14:02	25°) 52'50	26°08'44	morning max el	5593 Mar 23 22:44	9°) (07'49	24°47'18
<i>5</i> 22	5592 Apr 14 08:50	0°Υ	-	desc. node	5593 Mar 26 05:19	11°) 32'42	. •
	5592 May 05 12:27	0°8			5593 Apr 09 09:21	0°Υ	
morning set	5592 May 16 17:06	19° 8 31'18			5593 Apr 28 03:25	0°8	
max. Earth dist.	5592 May 20 15:28	26° 8 59'30	1.35201 AU	morning set	5593 Apr 28 23:46	1° 8 29'41	
	5592 May 22 04:21	0°Ⅱ		max. Earth dist.	5593 May 02 14:29	_	1.37139 AU
						-	
superior conj	5592 May 25 19:35	7° Ⅱ 17'20	-0°43'54	superior conj	5593 May 09 05:15	20° 8 32'29	-1°13'43

minimum elong	5593 May 09 09:23 5593 May 13 23:49	20° В 52'37 0° П	1°13'05	superior conj minimum elong	5594 Apr 22 00:44 5594 Apr 22 05:51	3° 8 04'04 3° 8 27'49	-1°40'46 1°40'11
asc. node	5593 May 17 02:07	6° Ⅱ 12'55		evening rise	5594 May 01 11:21	21° 8 04'09	
evening rise	5593 May 17 16:51	7° Ⅱ 26'42		asc. node	5594 May 03 23:08	25° 8 50'45	
	5593 May 30 09:58	0 \circ \odot			5594 May 06 04:14	$\Pi^{\circ}0$	
evening max el	5593 Jun 03 14:57	4° 9 58'40	19°24'00	evening max el	5594 May 17 16:09	17° Ⅱ 11'36	18°38'10
retrograde	5593 Jun 12 23:28	9° 5 33'19		retrograde	5594 May 25 14:21	21° Ⅱ 06′17	
evening set	5593 Jun 14 22:00	9° © 22'23		evening set	5594 May 27 18:30	20° ∏ 49'40	
desc. node	5593 Jun 22 04:32	6°∽06'32		inferior conj	5594 Jun 04 12:55	16° Ⅱ 24'16	1°17'26
inferior conj	5593 Jun 23 12:23	5° © 15'27	-0°23'48	minimum elong	5594 Jun 04 15:34	16° Ⅱ 19'13	1°16'32
minimum elong	5593 Jun 23 11:20	5° © 17'09	0°23'25	min. Earth dist.	5594 Jun 07 20:45	13° Ⅱ 53'42	0.57567 AU
min. Earth dist.	5593 Jun 26 03:24	3° © 33'32	0.55862 AU	desc. node	5594 Jun 09 01:33	13° Ⅱ 03'23	
morning rise	5593 Jul 01 21:54	0°£35'33		morning rise	5594 Jun 12 09:20	11° Ⅱ 08′24	
	5593 Jul 04 00:35	30°RⅡ		direct	5594 Jun 18 02:11	9° Ⅱ 47'17	
direct	5593 Jul 06 16:58	29° ∏ 43′26		morning max el	5594 Jul 02 11:15	17° Ⅱ 22'03	26°35'29
	5593 Jul 09 09:14	0°©			5594 Jul 12 21:57	0°©	
morning max el	5593 Jul 20 19:02		25°08'18		5594 Jul 30 00:29	0°Ω	
	5593 Aug 06 16:28	0°N		asc. node	5594 Jul 30 22:26	1° Ω 54'03	
asc. node	5593 Aug 13 01:25	12° Ω 05'02		morning set	5594 Jul 31 16:24	3° Ω 28′25	
morning set	5593 Aug 16 06:02	18° Ω 42'31		aumorior coni	5504 Aug 07 15:41	100 () 20122	1012142
	5593 Aug 21 10:57	0° Тф		superior conj	5594 Aug 07 15:41	18°Ω39'33 18°Ω26'51	1°12'42 1°12'20
superior conj	5593 Aug 23 04:07	3° m 45'54	1°28'01	minimum elong max. Earth dist.	5594 Aug 07 13:23 5594 Aug 07 23:05	18 δ (2031 19° Ω 20'27	1.31993 AU
minimum elong	5593 Aug 23 02:02	3°My34'30	1°27'46	max. Earth dist.	5594 Aug 12 20:05	0° Mp	1.31993 AU
max. Earth dist.	5593 Aug 24 13:06	6° Mp 46'11	1.32515 AU	evening rise	5594 Aug 12 20:03 5594 Aug 14 12:53	3°Mp36'54	
evening rise	5593 Aug 30 07:37	19° Mp 02'40	1.32313 AU	evening rise	5594 Aug 28 15:32	0° ⊽	
evening rise	5593 Sep 04 20:40	ე° ი		desc. node	5594 Sep 05 00:50	0 — 10° ≏ 56'36	
desc. node	5593 Sep 18 03:49	ა _ 22° ჲ 18'44		evening max el	5594 Sep 14 02:53	21° ≏ 24′50	26°55'59
dese. node	5593 Sep 23 18:09	0°M		retrograde	5594 Sep 28 00:11	28° £ 35'05	20 00 09
evening max el	5593 Oct 01 22:13	9° M 08'57	27°25'15	evening set	5594 Oct 04 23:41	26° £ 28'15	
retrograde	5593 Oct 15 16:26	16°M23'30		min. Earth dist.	5594 Oct 08 17:03	23° Ω 49'43	0.60620 AU
evening set	5593 Oct 22 20:29	13°M55'04		inferior conj	5594 Oct 11 21:30	21° ≏ 10'06	-4°20'37
min. Earth dist.	5593 Oct 26 11:56	10°M56'55	0.62621 AU	minimum elong	5594 Oct 12 03:56	20° ჲ 56'38	4°19'03
inferior conj	5593 Oct 29 08:16	8°M14'26	-3°21'48	morning rise	5594 Oct 19 10:14	16° ≏ 23'07	
minimum elong	5593 Oct 29 14:03	8°111.00'38	3°19'51	direct	5594 Oct 21 17:33	16° ≏ 02'25	
morning rise	5593 Nov 05 09:21	3°ML06'17		asc. node	5594 Oct 26 21:42	17° ≙ 51'55	
direct	5593 Nov 07 17:52	2°M41'03		morning max el	5594 Oct 29 01:07	19° ≙ 40′00	18°03'21
asc. node	5593 Nov 09 00:38	2°M48'44			5594 Nov 05 15:56	0° M.	
morning max el	5593 Nov 14 11:38	6°ML08'07	17°49'38	morning set	5594 Nov 13 18:44	14°M33'37	
	5593 Nov 29 22:28	0°⊀			5594 Nov 22 04:14	0°⊀	
morning set	5593 Nov 30 12:13	1° ∡ 01'02					
				superior conj	5594 Nov 23 15:55	2° ∡ ³39'18	
superior conj	5593 Dec 11 22:16	20° ≯ 52'05	0°22'38	minimum elong	5594 Nov 23 19:45	2° ≯ 56'17	0°56'59
minimum elong	5593 Dec 12 00:25	21°×701'06	0°22'19	max. Earth dist.	5594 Dec 01 07:33	15° ₹ 50'12	1.41901 AU
desc. node	5593 Dec 15 03:05	26° ₹ 12'23		desc. node	5594 Dec 02 00:06	16° ₹ 59'05	
T	5593 Dec 17 10:36	0°る	1 40 601 1 1 1	evening rise	5594 Dec 06 19:35	24° ₹ 49'59	
max. Earth dist.	5593 Dec 18 19:48	2°る14'40	1.43631 AU		5594 Dec 10 01:54	5°0	
evening rise	5593 Dec 26 19:42	14°る53'27		avanina may al	5594 Dec 30 16:59	0°≈ 11°2200!28	2202750
evening max el	5594 Jan 05 18:47 5594 Jan 26 08:25	0°≈ 27°≈32'30	21920142	evening max el	5595 Jan 09 01:47 5595 Jan 18 23:05	11°≈09'28 17°≈01'59	22°37'50
evening max er	5594 Jan 29 00:26	27 ≈3230 0° H	21 20 42	retrograde asc. node	5595 Jan 22 20:55	17 ≈01 39 15°≈42'45	
retrograde	5594 Feb 04 03:01	0 \		evening set	5595 Jan 23 15:51	15°≈4243 15°≈06'44	
asc. node	5594 Feb 04 03:01 5594 Feb 04 23:51	2°) (44'29'27		inferior conj	5595 Jan 29 00:33	8°≈43'46	1°56'30
evening set	5594 Feb 08 08:27	1°) (04'48		minimum elong	5595 Jan 28 22:20	8°≈51'25	1°55'45
evening set	5594 Feb 09 13:12	30°R≈		min. Earth dist.	5595 Jan 28 19:19	9°≈01'53	0.68163 AU
inferior conj	5594 Feb 13 16:26	24°≈49'38	2°34'31	morning rise	5595 Feb 03 04:44	2°≈34'46	0.00103710
minimum elong	5594 Feb 13 14:02	24°≈57'54	2°33'52	direct	5595 Feb 07 18:21	0° ≈ 41'47	
min. Earth dist.	5594 Feb 13 22:55	24°≈27'07	0.67977 AU	morning max el	5595 Feb 16 20:26	6°≈00'24	21°51'00
morning rise	5594 Feb 18 19:28	18° ≈ 37'07		desc. node	5595 Feb 27 23:21	19° ≈ 40'40	- *
direct	5594 Feb 23 23:39	16° ≈ 21'37			5595 Mar 07 05:02	0°) €	
morning max el	5594 Mar 06 07:47	22° ≈ 30′00	23°18'16	morning set	5595 Mar 21 09:36	21°) 46'59	
-	5594 Mar 12 20:56	0°) €		-	5595 Mar 26 10:45	0° Υ	
desc. node	5594 Mar 13 02:20	0°) (17′00		max. Earth dist.	5595 Mar 27 09:02	1° Y 32'28	1.41484 AU
	5594 Apr 02 17:29	0 ° $\mathbf{\Upsilon}$					
morning set	5594 Apr 10 06:46	12° Y 18'15		superior conj	5595 Apr 04 01:16	14° Y 40'41	-2°01'06
max. Earth dist.	5594 Apr 14 10:05	19° Y 22'49	1.39325 AU	minimum elong	5595 Apr 04 05:29	14° Y 59'16	2°00'51
	5594 Apr 20 08:48	9° 8			5595 Apr 12 13:00	9° 8	

evening rise asc. node	5595 Apr 14 18:07 5595 Apr 20 20:10	4° と 05'04 15° と 09'25		superior conj minimum elong	5596 Mar 15 02:07 5596 Mar 15 02:14	25°) 12'12 25°) 12'42	
evening max el	5595 May 01 00:37	29° 8 56'44	18°12'38	minimum ciong	5596 Mar 17 22:37	25 γ (1242	2 09 28
evening max er	5595 May 01 00:57 5595 May 01 01:58	0°П	10 12 30	evening rise	5596 Mar 27 08:50	16° Υ 19'24	
retrograde	5595 May 08 00:01	3° ∏ 27'12		evening rise	5596 Apr 04 05:47	0°8	
evening set	5595 May 10 11:07	3° П 01'41		asc. node	5596 Apr 06 17:13	4° 8 02'01	
8-11	5595 May 15 10:32	30° ₹ 8		evening max el	5596 Apr 13 12:53	13° 8 04'35	18°06'41
inferior conj	5595 May 17 10:58	28° 8 15'56	2°28'35	retrograde	5596 Apr 20 00:43	16° 8 26'22	
minimum elong	5595 May 17 14:21	28° 8 08'24	2°27'42	evening set	5596 Apr 22 18:31	15° 8 49'43	
min. Earth dist.	5595 May 20 20:12	25° 8 16'55	0.59690 AU	inferior conj	5596 Apr 29 03:31	10° 8 44'05	3°10'38
morning rise	5595 May 24 14:50	22° 8 31'48		minimum elong	5596 Apr 29 05:52	10° 8 38'07	3°10'15
desc. node	5595 May 26 22:34	21° 8 23'32		min. Earth dist.	5596 May 02 03:40	7° 8 41'34	0.61900 AU
direct	5595 May 31 00:53	20° 8 36'27		morning rise	5596 May 05 15:26	4° 8 42'38	
morning max el	5595 Jun 14 09:47	28° 8 28'47	27°32'58	direct	5596 May 12 10:32	2° 8 17'09	
	5595 Jun 15 21:32	$\Pi^{\circ}0$		desc. node	5596 May 12 19:37	2° 8 17'35	
	5595 Jul 06 16:40	0ಂ ತಾ		morning max el	5596 May 26 14:20	10° 8 17'33	27°53'21
morning set	5595 Jul 15 23:47	18° 5 03'39			5596 Jun 10 22:53	Π °0	
asc. node	5595 Jul 17 19:28	21° 5 54'03			5596 Jun 27 22:18	0 \circ 50	
	5595 Jul 21 13:07	$0 {\circ} \mathcal{N}$		morning set	5596 Jun 29 02:10	2° 5 21'08	
max. Earth dist.	5595 Jul 22 10:13	1° Ω 56′07	1.31894 AU	asc. node	5596 Jul 03 16:30	11° © 59'39	
				max. Earth dist.	5596 Jul 04 18:33	14° © 20'09	1.32233 AU
superior conj	5595 Jul 23 03:20	3° Ω 30'34	0°53'00				
minimum elong	5595 Jul 23 01:17	3° Ω 19′18	0°52'36	superior conj	5596 Jul 06 13:15	18° © 12'20	0°29'25
evening rise	5595 Jul 29 22:18	18° Ω 21′08		minimum elong	5596 Jul 06 11:56	18° © 05'10	0°29'07
	5595 Aug 04 15:16	0° ™			5596 Jul 11 22:46	0 \circ Ω	
desc. node	5595 Aug 22 21:51	28° m 32'10		evening rise	5596 Jul 13 09:46	3° Ω 08′02	
	5595 Aug 24 05:01	0∘ ⊽			5596 Jul 27 19:33	0° m	
evening max el	5595 Aug 27 00:06	2° Ω 51'44	25°54'10	evening max el	5596 Aug 07 14:27	13° m) 33'43	24°27'13
retrograde	5595 Sep 09 23:08	9° Ω 58'22		desc. node	5596 Aug 08 18:53	14° m 39'33	
evening set	5595 Sep 16 05:46	8° Ω 24'29	0.50544.433	retrograde	5596 Aug 21 10:49	20° m/32'13	
min. Earth dist.	5595 Sep 20 12:34	5° Ω 48'53	0.58544 AU	evening set	5596 Aug 26 11:13	19° Mp 36'05	0.56664 ATT
inferior conj	5595 Sep 23 17:17	3° Ω 29'39		min. Earth dist.	5596 Sep 01 01:32	16° Mp 44'38	0.56664 AU
minimum elong	5595 Sep 23 21:51	3° <u>₽</u> 21'18	5°04'20	inferior conj	5596 Sep 03 16:59	15° Mp 04'01	5°20'04
morning rise	5595 Sep 29 05:28 5595 Oct 01 16:15	30°R ጥ 29° ሙ 05'45		minimum elong morning rise	5596 Sep 03 16:14 5596 Sep 11 23:38	15° Mp 05'13 11° Mp 01'13	5°20'04
direct	5595 Oct 04 01:53	29 m/03 43 28° m/47'01		direct	5596 Sep 14 15:22	10° mp 42'08	
direct	5595 Oct 04 01:55 5595 Oct 08 15:58	28 m/4701 0°Ω		morning max el	5596 Sep 24 05:08	15° M) 11'27	19°33'02
morning max el	5595 Oct 12 08:06	o — 2° Ω 44'53	18°37'20	asc. node	5596 Sep 29 15:48	21° m/ 40'19	17 33 02
asc. node	5595 Oct 12 08:00 5595 Oct 13 18:45	4° £ 14'31	10 37 20	asc. node	5596 Oct 04 19:22	0° ت	
morning set	5595 Oct 28 12:57	28° ₽ 39'12		morning set	5596 Oct 11 15:08	13° 亞 06'38	
morning sec	5595 Oct 29 05:36	0°M		morning sec	2270 320 11 12.00	.5 —0050	
				superior conj	5596 Oct 19 14:14	29° ₽ 05'06	1°36'35
superior conj	5595 Nov 06 07:03	15°M29'06	1°21'54	minimum elong	5596 Oct 19 16:17	29° £ 15'07	1°36'28
minimum elong	5595 Nov 06 10:27		1°21'34	Č	5596 Oct 20 01:25	0°M	
max. Earth dist.	5595 Nov 13 14:06	28° ™ 41'58	1.39855 AU	max. Earth dist.	5596 Oct 25 18:51	10°M54'54	1.37742 AU
	5595 Nov 14 08:00	0° ∡ ¹		evening rise	5596 Oct 29 12:54	17° M 42'21	
evening rise	5595 Nov 17 16:59	5° ∡ ¹45'39		desc. node	5596 Nov 04 18:10	28°M20'18	
desc. node	5595 Nov 18 21:08	7° ∡ 143′12			5596 Nov 05 18:29	0° ∡ ¹	
	5595 Dec 03 04:44	5°0			5596 Nov 26 13:08	5°0	
evening max el	5595 Dec 22 15:48	24° る 49'48	23°57'51	evening max el	5596 Dec 04 04:39	8° る 34'09	25°14'08
	5595 Dec 29 03:47	0° ≈		retrograde	5596 Dec 16 04:32	15° る 29'46	
retrograde	5596 Jan 02 15:57	1°≈18'36		evening set	5596 Dec 21 23:15	13° る 05'42	
	5596 Jan 06 17:50	30°Rる		min. Earth dist.	5596 Dec 26 10:19	8° る 08'29	0.67422 AU
evening set	5596 Jan 07 21:19	29° る 08'10		asc. node	5596 Dec 26 15:01	7° る 53'16	
asc. node	5596 Jan 09 17:58	27° る 17'38		inferior conj	5596 Dec 27 13:31	6° る 40'02	0°19'01
min. Earth dist.	5596 Jan 12 15:55	23° る 36'42		minimum elong	5596 Dec 27 13:02	6° る 41'35	0°18'50
inferior conj	5596 Jan 13 08:11	22°る41'30	1°11'03	morning rise	5597 Jan 02 03:05	0°る43'22	
minimum elong	5596 Jan 13 06:37	22° 3 46'51	1°10'27	P	5597 Jan 03 11:02	30°₹ ⋌ ¹	
morning rise	5596 Jan 18 15:56	16° る 37'36		direct	5597 Jan 05 14:39	29° ⋌ 33'29	
direct	5596 Jan 22 15:47	15° る 07'11	20022120		5597 Jan 07 20:06	0°る 20 ろ 24117	10027146
morning max el	5596 Jan 30 15:44	19° る 41'41	20°32'39	morning max el	5597 Jan 12 19:00	3°る34'17	19°27'46
daga = -1-	5596 Feb 08 03:01	0°≈ 0°≈≈22!55		greatest brilliancy	5597 Jan 25 21:15	20°る55'46	-0.7m
desc. node	5596 Feb 14 20:23	9° ≈ 32'55 0° 米		desc. node	5597 Jan 31 17:26	29° る 46'06	
morning set	5596 Feb 28 09:14 5596 Feb 28 12:02	0° X 0° X 10'48		morning set	5597 Jan 31 21:04 5597 Feb 06 09:41	0° ≈ 8° ≈ 29'51	
max. Earth dist.	5596 Feb 28 12:02 5596 Mar 08 14:46		1.43340 AU	morning set max. Earth dist.	5597 Feb 19 03:49	8°≈29'31 28°≈24'39	1.44667 AU
max. Datui UISt.	5570 IVIAI UO 14.40	1 4 八33 24	1.43340 AU	max. Darui Uist.	5597 Feb 20 03:54	28°≈24°39 0° ∺	1. 11 00/ AU
					337/100 20 03.34	υ Λ	

superior conj	5597 Feb 23 01:47	4° ∺ 38'11		superior conj	5598 Feb 02 07:26	13°≈20'35	
minimum elong	5597 Feb 22 19:28	4° ★ 12'58	1°59'57	minimum elong	5598 Feb 01 21:58	12°≈43'27	1°30'21
evening rise	5597 Mar 09 03:06	27° ∺ 39'09		max. Earth dist.	5598 Feb 01 21:58	12° ≈ 43′28	1.45314 AU
	5597 Mar 10 12:46	0° Υ			5598 Feb 12 21:09	0° ∀	
asc. node	5597 Mar 24 14:16	22° Y 20′18		evening rise	5598 Feb 17 22:08	8° ∺ 01'30	
evening max el	5597 Mar 28 01:50	26° Y 27′02	18°19'34	greatest brilliancy	5598 Feb 26 00:34	20° 升 57′28	-0.8m
retrograde	5597 Apr 03 12:01	29° Ƴ 54'05			5598 Mar 03 20:56	0 ° Υ	
evening set	5597 Apr 06 12:16	29° Ƴ 05′01		asc. node	5598 Mar 11 11:19	9° Ƴ 53'10	
inferior conj	5597 Apr 12 10:25	23° Y 40'37	3°29'13	evening max el	5598 Mar 11 12:41	9° Ƴ 56'40	18°50'23
minimum elong	5597 Apr 12 11:10	23° Y 38'27	3°29'10	retrograde	5598 Mar 18 05:57	13° Ƴ 41'35	
min. Earth dist.	5597 Apr 14 20:13	20° Ƴ 56'37	0.63924 AU	evening set	5598 Mar 21 12:56	12° Ƴ 39'16	
morning rise	5597 Apr 18 09:09	17° Y 30'12		inferior conj	5598 Mar 27 03:44	6° Ƴ 57'38	3°29'54
direct	5597 Apr 25 04:44	14° Y 46'03		minimum elong	5598 Mar 27 03:03	6° Ƴ 59'45	3°29'52
desc. node	5597 Apr 29 16:39	15° Ƴ 47'26		min. Earth dist.	5598 Mar 28 21:51	4° Ƴ 46'56	0.65599 AU
morning max el	5597 May 08 22:56	22° Ƴ 44'39	27°36'38	morning rise	5598 Apr 01 16:44	0° Υ 43'20	
	5597 May 15 08:43	0°8			5598 Apr 02 13:59	30°R) €	
	5597 Jun 04 04:51	0°II		direct	5598 Apr 08 05:48	27°) 53'57	
morning set	5597 Jun 12 21:08	16° Ⅱ 13'50			5598 Apr 14 13:36	0° Υ	
max. Earth dist.	5597 Jun 17 20:23	26° I I22'01	1.33027 AU	desc. node	5598 Apr 16 13:41	1°Υ22'35	
max. Earth dist.	5597 Jun 19 13:42	0°95	1.33027 AU	morning max el	5598 Apr 21 09:02	5° Υ 39'24	26°47'59
	3397 Juli 19 13.42	0 29		morning max er		0° 8	20 4/39
	5507 I 20 10 24	20520116	0000127	. ,	5598 May 10 00:32		
superior conj	5597 Jun 20 19:34	2°939'16		morning set	5598 May 27 05:32	29° 8 32'05	
minimum elong	5597 Jun 20 19:26	2°538'35	0°02'34		5598 May 27 11:23	0°II	
behind sun begin	5597 Jun 20 14:07	2° © 10'07		max. Earth dist.	5598 May 31 12:19	7° Ⅱ 54'20	1.34283 AU
behind sun end	5597 Jun 21 00:46	3° © 07'05					
asc. node	5597 Jun 20 13:32	2° © 06'59		superior conj	5598 Jun 04 20:05	16° Ⅱ 44′22	
evening rise	5597 Jun 27 21:26	17° © 51'56		minimum elong	5598 Jun 04 21:31	16° Ⅱ 51'50	0°26'17
	5597 Jul 03 20:55	$0 {\circ} \Omega$		asc. node	5598 Jun 07 10:34	22° Ⅱ 11'37	
evening max el	5597 Jul 20 03:12	23° Ω 54'03	22°49'25		5598 Jun 11 03:25	0	
desc. node	5597 Jul 26 15:54	28° Ω 46′51		evening rise	5598 Jun 12 07:20	2° 5 26'12	
	5597 Jul 29 17:31	0° mp			5598 Jun 28 00:17	$0^{\circ}\Omega$	
retrograde	5597 Aug 02 09:31	0° Mp 30′45		evening max el	5598 Jul 01 22:27	4° Ω 26′02	21°16'38
evening set	5597 Aug 05 21:24	0° m/04'03		retrograde	5598 Jul 13 23:04	10° Ω 22'16	
	5597 Aug 06 03:40	30° ₹ €		desc. node	5598 Jul 13 12:53	10° Ω 21'51	
min. Earth dist.	5597 Aug 13 11:27	26° Ω 41'52	0.55314 AU	evening set	5598 Jul 16 07:08	10° Ω 09'38	
inferior conj	5597 Aug 14 21:41	25° Ω 52'48	-4°49'18	inferior conj	5598 Jul 25 15:18	6° Ω 11'02	-3°26'44
minimum elong	5597 Aug 14 14:33	26° Ω 03'03	4°48'04	minimum elong	5598 Jul 25 06:38	6° Ω 23'11	3°24'06
morning rise	5597 Aug 23 09:47	22° £ 02'34		min. Earth dist.	5598 Jul 25 21:25	6° Ω 02'27	0.54776 AU
direct	5597 Aug 26 10:48	21° Ω 41'01		morning rise	5598 Aug 03 06:50	2°Ω16'15	0.5 1,70110
morning max el	5597 Sep 06 13:57	26° Ω 52'11	20°50'30	direct	5598 Aug 06 19:53	1° Ω 49'11	
morning max or	5597 Sep 09 13:35	0° m)	20 30 30	morning max el	5598 Aug 19 11:22	7° Ω 48'36	22°26'07
asc. node	5597 Sep 16 12:49	9° m 55'25		asc. node	5598 Sep 03 09:51	28° Ω 48'16	22 2007
morning set	5597 Sep 25 22:30	27° Mp 48'19		asc. node	5598 Sep 04 01:18	0° Mp	
morning set	5597 Sep 26 23:57	0° ⊽		morning set	5598 Sep 10 08:56	12° Mp 38'34	
	3397 Sep 20 23.37	0 ==		morning set	3398 Sep 10 08.30	12 11/3834	
	5507.0 4.02.00.55	120 0 1 4/2 (10.40140		5500 C 17 11 22	270 m. 47100	1041147
superior conj	5597 Oct 03 08:55	13° £ 14'26		superior conj	5598 Sep 17 11:33	27° mp 47'00	1°41'47
minimum elong	5597 Oct 03 09:25	13° ⊆ 17'01	1°42'47	minimum elong	5598 Sep 17 10:45	27° m/42'43	1°41'45
max. Earth dist.	5597 Oct 08 03:25	22° £ 49'13	1.35801 AU	F 4 F	5598 Sep 18 12:44	0∘ ʊ	1 2 41 21 4 7 7
	5597 Oct 11 21:21	0° M ₊		max. Earth dist.	5598 Sep 20 19:43		1.34191 AU
evening rise	5597 Oct 12 04:12	0°M32′00		evening rise	5598 Sep 25 10:43	14° ≙ 04'08	
desc. node	5597 Oct 22 15:12	18°M45'38			5598 Oct 04 02:59	0°M	
	5597 Oct 29 21:30	0° ∡ ¹		desc. node	5598 Oct 09 12:11	8°M53'26	
evening max el	5597 Nov 16 17:31	22° ҂ 17'57	26°19'15		5598 Oct 24 18:00	0°⊀	
retrograde	5597 Nov 29 11:51	29° ∡ ¹29'24		evening max el	5598 Oct 30 06:17	5° ₹ 52'54	27°05'46
evening set	5597 Dec 05 19:49	26° ₹ 54'48		retrograde	5598 Nov 12 13:33	13° ∡ 10′52	
min. Earth dist.	5597 Dec 10 00:03	22° ∡ ³32′50	0.66519 AU	evening set	5598 Nov 19 08:54	10° ∡ ³31'17	
inferior conj	5597 Dec 11 14:34	20° ∡ ³35′15	-0°38'44	min. Earth dist.	5598 Nov 23 06:50	6° ≯ ¹44'34	0.65263 AU
minimum elong	5597 Dec 11 15:37	20° ∡ ³32′02	0°38'16	inferior conj	5598 Nov 25 09:13	4° ₹ 22'56	-1°40'51
asc. node	5597 Dec 13 12:04	18° ∡ ¹20'14		minimum elong	5598 Nov 25 12:08	4° ≯ 14'43	1°39'37
morning rise	5597 Dec 17 12:03	14° ∡ ¹48'21			5598 Nov 29 19:04	30°RM	
direct	5597 Dec 20 13:07	13° х 55'49		asc. node	5598 Nov 30 09:05	29°M34'29	
morning max el	5597 Dec 27 05:17	17° ∡ ³34'29	18°38'32	morning rise	5598 Dec 01 16:27	28° M 48'47	
	5598 Jan 05 15:58	0°ರ		direct	5598 Dec 04 09:07	28°M09'50	
morning set	5598 Jan 17 02:46	17° ප 53'01			5598 Dec 09 00:21	0° ∡ 7	
desc. node	5598 Jan 18 14:27	20° ප 13'55		morning max el	5598 Dec 10 20:22	1° ∡ ³36'57	18°05'54
	5598 Jan 24 19:18	0°≈		morning set	5598 Dec 29 01:22	28° × ⁷ 45'22	
	2, 17.10				5598 Dec 29 19:32	0°る	
					22,2200 2, 17.02		

desc. node	5599 Jan 05 11:29	10°る52'07		superior conj minimum elong	5599 Dec 23 14:21 5599 Dec 23 14:09	2°පි00'14 1°පි59'25	-0°01'44 0°01'42
superior conj	5599 Jan 12 13:31	22° る 11'39		behind sun begin	5599 Dec 23 04:29	1° る 19'44	
minimum elong	5599 Jan 12 07:37	21° る 48'19	0°47'18	behind sun end	5599 Dec 23 23:50	2° る 39'02	
max. Earth dist.	5599 Jan 15 17:45		1.45213 AU	max. Earth dist.	5599 Dec 29 11:44	11° る 31'18	1.44387 AU
	5599 Jan 17 12:30	0° ≈		evening rise	5600 Jan 08 06:43	26° る 50'00	
evening rise	5599 Jan 28 20:07	17°≈36'37			5600 Jan 10 08:18	0° ≈	
	5599 Feb 05 20:54	0°) (5600 Jan 30 22:06	0°)	
greatest brilliancy	5599 Feb 10 21:49	7°) €38'27	-0.7m	evening max el	5600 Feb 05 20:55	7°) (04'09	20°39'54
evening max el	5599 Feb 22 19:27	23°) (29'44	19°37'51	asc. node	5600 Feb 13 05:21	11°) 50'03	
asc. node	5599 Feb 26 08:19	26°) €28'00		retrograde	5600 Feb 14 01:44	11°) 53'54	
retrograde	5599 Mar 02 03:22	27°\dagger43'09 26°\dagger26'58		evening set	5600 Feb 18 01:12	10°) 23′08 4°) 13′47	2052142
evening set	5599 Mar 05 17:56	20° ★ 20′38 20° ★ 30′09	2017/40	inferior conj	5600 Feb 23 09:29	4° X 13'47 4° X 21'36	
inferior conj minimum elong	5599 Mar 11 04:18 5599 Mar 11 02:35	20° ★ 30′09 20° ★ 35′49	3°16'48 3°16'34	minimum elong min. Earth dist.	5600 Feb 23 07:12 5600 Feb 23 23:12	3° \ 26'43	0.67681 AU
min. Earth dist.	5599 Mar 12 07:31	19° H 00'10	0.66856 AU	min. Earth dist.	5600 Feb 26 15:00	30°R≈	0.07081 AU
morning rise	5599 Mar 16 10:59	14° H 14'54	0.00830 AU	morning rise	5600 Feb 28 13:00	27°≈59'38	
direct	5599 Mar 22 12:59	11°) (32'13		direct	5600 Mar 05 01:27	25°≈32'25	
desc. node	5599 Apr 03 10:43	18°) (32'13		direct	5600 Mar 13 20:46	0° ∀	
morning max el	5599 Apr 03 18:40	18°) 50'45	25°35'40	morning max el	5600 Mar 16 03:24		24°09'48
morning max or	5599 Apr 13 05:19	0°Υ	23 33 10	desc. node	5600 Mar 20 07:46	6° ¥ 45'52	21 07 10
	5599 May 03 02:01	0°8			5600 Apr 06 06:56	0°Υ	
morning set	5599 May 09 23:10	12° 8 04'22		morning set	5600 Apr 20 20:39	23° Y 36'14	
max. Earth dist.	5599 May 13 17:03	19° 8 02'02	1.35988 AU	. 8	5600 Apr 24 11:49	0°8	
	5599 May 19 08:04	0° I I		max. Earth dist.	5600 Apr 24 13:34	0° 8 07'48	1.38047 AU
	•				•		
superior conj	5599 May 19 12:07	0° Ⅱ 20'19	-0°56'42	superior conj	5600 May 01 16:21	13° 8 18'57	-1°25'44
minimum elong	5599 May 19 15:19	0° Ⅲ 36′18	0°56'09	minimum elong	5600 May 01 21:02	13° 8 41'22	1°25'05
asc. node	5599 May 25 07:35	12° Ⅱ 09′27			5600 May 10 04:58	Π $^{\circ}0$	
evening rise	5599 May 27 13:21	16° Ⅱ 44′20		evening rise	5600 May 10 12:58	0°Ⅱ39′27	
	5599 Jun 03 08:41	0 \circ \odot		asc. node	5600 May 11 04:36	1° Ⅱ 56′25	
evening max el	5599 Jun 14 05:43	15° © 34'34	19°59'26	evening max el	5600 May 27 01:18	27° Ⅱ 26'40	19°02'01
retrograde	5599 Jun 24 14:04	20°538'45			5600 May 30 05:41	0 \circ \odot	
evening set	5599 Jun 26 11:51	20°529'10		retrograde	5600 Jun 04 18:10	1° © 42'31	
desc. node	5599 Jun 30 09:55	19° © 15'38		evening set	5600 Jun 06 18:29	1° 5 29'46	
inferior conj	5599 Jul 05 11:58	16°529'04			5600 Jun 10 16:47	30°Ŗ Ⅱ	
minimum elong	5599 Jul 05 07:43	16°535'30		inferior conj	5600 Jun 15 00:34	27° Ⅱ 15'56	
min. Earth dist.	5599 Jul 07 09:33	15°520'20	0.55197 AU	minimum elong	5600 Jun 15 01:28	27° Ⅱ 14'21	0°22'03
morning rise	5599 Jul 14 01:50	12°508'59		desc. node	5600 Jun 16 06:57	26° Ⅱ 22'59	0.56510 AU
direct morning max el	5599 Jul 18 08:09 5599 Aug 01 01:59	11°©29'16 18°©15'10	24910/10	min. Earth dist. morning rise	5600 Jun 18 00:57 5600 Jun 23 05:10	23° П 11'08 22° П 19'57	0.56510 AU
morning max er	5599 Aug 10 18:41	0°Ω	24 10 19	direct	5600 Jun 28 09:41	21° I I16'26	
asc. node	5599 Aug 10 18:41 5599 Aug 21 06:52	18° Ω 08'49		morning max el	5600 Jul 12 16:05	28° I I37'40	25°48'10
morning set	5599 Aug 21 00:32 5599 Aug 25 20:36	27°Ω31'10		morning max ci	5600 Jul 14 01:07	0°95	23 48 10
morning set	5599 Aug 27 00:31	0° m			5600 Aug 03 05:20	$0 {\circ} \Omega$	
	2000 11 48 27 00.51	∵. γ		asc. node	5600 Aug 07 03:54	7° Ω 49'39	
superior conj	5599 Sep 01 19:21	12° m 33'31	1°34'37	morning set	5600 Aug 09 07:55	12° Ω 21′23	
minimum elong	5599 Sep 01 17:37	12° m) 24'04	1°34'28	C	C		
max. Earth dist.	5599 Sep 03 20:28	16° m 58'39	1.32996 AU	superior conj	5600 Aug 16 06:09	27° Ω 27'03	1°22'05
evening rise	5599 Sep 09 04:30	28° Mp 07'36		minimum elong	5600 Aug 16 03:55	27° Ω 14'47	1°21'48
	5599 Sep 10 02:52	0∘ ⊽		max. Earth dist.	5600 Aug 17 03:53	29° Ω 26′33	1.32238 AU
desc. node	5599 Sep 26 09:11	28° ≏ 35'21			5600 Aug 17 09:58	0° ™	
	5599 Sep 27 07:42	0° M.		evening rise	5600 Aug 23 06:25	12° m 33'34	
evening max el	5599 Oct 12 17:39	19° M 06'47	27°26'52		5600 Sep 01 06:08	0∘ ⊽	
retrograde	5599 Oct 26 09:06	26°M24'30		desc. node	5600 Sep 12 06:11	17° ≏ 40'49	
evening set	5599 Nov 02 11:47	23°M48'36			5600 Sep 22 05:58	0°M₊	
min. Earth dist.	5599 Nov 06 04:38	20°M34'36		evening max el	5600 Sep 24 01:34	1°M47'39	27°16'56
inferior conj	5599 Nov 08 18:53	17°M56'24		retrograde	5600 Oct 07 21:44	9°M01'05	
minimum elong	5599 Nov 08 23:44	17°M44'02	2°43'23	evening set	5600 Oct 15 00:55	6°M40'21	0.61500 : **
morning rise	5599 Nov 15 13:16	12°M38'02		min. Earth dist.	5600 Oct 18 16:11		0.61788 AU
asc. node	5599 Nov 17 06:07	12°M11'38		inferior conj	5600 Oct 21 16:35	1°M08'37	
direct	5599 Nov 17 23:51	12°M08'56	17050127	minimum elong	5600 Oct 21 22:51	0°M54'26	<i>5</i> ~45′59
morning max el	5599 Nov 24 13:19	15°M33'44	17°50'26	morning rig-	5600 Oct 22 23:20	30° ₹ Ω	
morning sat	5599 Dec 04 17:37	0° ₰ 10° ₰ 54'47		morning rise direct	5600 Oct 28 22:43	26° Ω 09'10	
morning set	5599 Dec 11 02:39 5599 Dec 22 09:06	10°×'54'4/ 0°る		asc. node	5600 Oct 31 06:09 5600 Nov 03 03:10	25° £ 46'20 26° £ 23'01	
desc. node	5599 Dec 22 09:06 5599 Dec 23 08:29	0°る		morning max el	5600 Nov 03 03:10 5600 Nov 07 05:00		17°53'02
desc. Hode	5577 DCC 25 00.29	. 5000		morning max ci	2000 1101 07 02.00	2, -1/09	1, 33 02

-	_		•				_
	5600 Nov 07 21:44	0°M		superior conj	5601 Nov 15 20:49	25° M 20'27	1°09'05
morning set	5600 Nov 23 00:14	24°M02'07		minimum elong	5601 Nov 16 00:39	25° M 37'51	1°08'39
Č	5600 Nov 26 07:25	0° ∡ ¹		8	5601 Nov 18 11:00	0° ∡ ¹	
				max. Earth dist.	5601 Nov 23 11:22	8° ∡ ¹43'29	1.41057 AU
superior conj	5600 Dec 03 17:23	13° ∡ 04'55	0°38'39	desc. node	5601 Nov 26 02:30	13° ∡ ¹08'57	
minimum elong	5600 Dec 03 20:34	13° ∡ 18'41	0°38'13	evening rise	5601 Nov 28 06:14	16° ∡ ¹42'01	
desc. node	5600 Dec 09 05:29	22° ₹ 22'51			5601 Dec 06 16:29	0°ಕ	
max. Earth dist.	5600 Dec 11 01:48	25° ₹ 25'15	1.42946 AU		5601 Dec 28 09:55	0° ≈	
	5600 Dec 13 21:36	8°0		evening max el	5602 Jan 01 08:58	4° ≈ 19'15	23°12'01
evening rise	5600 Dec 17 21:40	6° පි 21'08		retrograde	5602 Jan 11 17:43	10° ≈ 27'25	
	5601 Jan 02 15:29	0° ≈					
evening max el	5601 Jan 18 17:04	20° ≈ 40′07	21°52'55				
retrograde	5601 Jan 27 23:01	26° ≈ 09'44					
asc. node	5601 Jan 30 02:24	25° ≈ 45'27					
evening set	5601 Feb 01 08:59	24° ≈ 23'41					
inferior conj	5601 Feb 06 17:05	18° ≈ 04'51	2°19'24				
minimum elong	5601 Feb 06 14:43	18° ≈ 13'05					
min. Earth dist.	5601 Feb 06 18:35	17° ≈ 59'41	0.68097 AU				
morning rise	5601 Feb 11 20:16	11° ≈ 53′28					
direct	5601 Feb 16 18:17	9° ≈ 47'06					
morning max el	5601 Feb 26 13:21	15°≈34'26	22°40'26				
desc. node	5601 Mar 07 04:47	25°≈48'27					
	5601 Mar 10 07:36	0°) €					
	5601 Mar 30 07:13	0° γ					
morning set	5601 Apr 01 15:58	3°Υ51'21	1 40050 411				
max. Earth dist.	5601 Apr 06 09:20	11° Y 46'01	1.40258 AU				
	5601 Amm 14 04:25	25° Y 28'59	1950120				
superior conj	5601 Apr 14 04:25	25° Υ 51'55					
minimum elong	5601 Apr 14 09:29 5601 Apr 16 15:40	0° 8	1 30 02				
evening rise	5601 Apr 24 02:58	14° 8 02'32					
asc. node	5601 Apr 28 01:39	21° 8 27'00					
use. Houe	5601 May 02 21:56	0° I I					
evening max el	5601 May 10 06:11	9° П 55'17	18°24'56				
retrograde	5601 May 17 17:04	13° I 33'17	10 24 30				
evening set	5601 May 20 00:16	13° I 17'07					
inferior conj	5601 May 27 10:27		1°51'23				
minimum elong	5601 May 27 13:44	8° Ⅱ 36'40					
min. Earth dist.	5601 May 30 20:41	5° Ⅱ 57'42	0.58445 AU				
desc. node	5601 Jun 03 04:00	3° Ⅱ 42′00					
morning rise	5601 Jun 04 00:02	3° Ⅱ 14′26					
direct	5601 Jun 10 01:19	1° Ⅱ 38′33					
morning max el	5601 Jun 24 10:35	9° Ⅱ 21'45	27°04'00				
	5601 Jul 10 04:42	0 \circ \odot					
morning set	5601 Jul 24 17:14	27° 5 03'19					
asc. node	5601 Jul 25 00:56	27° 5 43'51					
	5601 Jul 26 02:33	$0^{\circ}\Omega$					
superior conj	5601 Jul 31 17:59	12° Ω 20′28					
minimum elong	5601 Jul 31 15:45	12° Ω 08'02					
max. Earth dist.	5601 Jul 31 14:45		1.31905 AU				
evening rise	5601 Aug 07 13:45	27° Ω 13'13					
	5601 Aug 08 21:33	0° m					
	5601 Aug 25 19:07	0∘ 亚					
desc. node	5601 Aug 30 03:14	5° £ 54'49					
evening max el	5601 Sep 06 03:30	13° £ 44'01	26°33'26				
retrograde	5601 Sep 20 01:56	20° £ 52'13					
evening set	5601 Sep 26 19:42	18° £ 58'41	0.50724 411				
min. Earth dist.	5601 Sep 30 17:12		0.59734 AU				
inferior conj	5601 Oct 03 22:50	13° £ 50′26					
minimum elong	5601 Oct 11 16:08	13° £ 38'30	+ 4040				
morning rise direct	5601 Oct 11 16:08 5601 Oct 13 23:57	9° £ 12'47 8° £ 53'11					
asc. node	5601 Oct 13 23:37 5601 Oct 21 00:13	12° £ 01'37					
morning max el	5601 Oct 21 16:06	12 ⊆ 01 37 12° ⊆ 38'29	18°15'10				
morning max ci	5601 Nov 02 07:44	0° M	10 13 10				
morning set	5601 Nov 06 12:18	7°111.50'35					

morning set

5601 Nov 06 12:18

7°M50'35