·	•		•				
superior conj	10100 Jan 03 05:06	18° ට 31'41	1°06'51		10100 Dec 16 13:36	ರ°0	
minimum elong	10100 Jan 03 08:14	18° ප 46'43	1°06'53				
	10100 Jan 09 08:49	0° ≈		superior conj	10100 Dec 17 18:11	2° る 24'22	1°25'22
max. Earth dist.	10100 Jan 10 02:02	1° ≈ 17'24	1.38860 AU	minimum elong	10100 Dec 17 20:40	2° る 36'49	1°25'34
desc. node	10100 Jan 12 10:30	5° ≈ 27'17		max. Earth dist.	10100 Dec 23 09:03	13° る 24'38	1.36713 AU
evening rise	10100 Jan 13 21:49	8° ≈ 00′20		evening rise	10100 Dec 27 04:08	20° පි 27'36	
	10100 Jan 27 14:55	0° ∀		desc. node	10100 Dec 30 07:28	26° පි 02'50	
evening max el	10100 Feb 18 04:35	27° ¥ 50′39	24°35'40		10101 Jan 01 14:34	0° ≈	
	10100 Feb 20 12:10	0° Υ			10101 Jan 21 14:57	0° ∀	
retrograde	10100 Mar 01 18:08	4° Ƴ 35'59		evening max el	10101 Jan 31 18:00	11°) 40′24	25°47'52
evening set	10100 Mar 07 06:34	2° Ƴ 17'52		retrograde	10101 Feb 13 05:02	18°) 48′21	
asc. node	10100 Mar 07 11:42	2° Y 06'46		evening set	10101 Feb 19 05:43	16°) €20′13	
	10100 Mar 09 13:04	30° ₹ ₩		asc. node	10101 Feb 22 08:52	13° ∺ 08'05	
min. Earth dist.	10100 Mar 11 20:24	27°) €06'03	0.68108 AU	min. Earth dist.	10101 Feb 23 12:43	11°) 43′19	0.67276 AU
inferior conj	10100 Mar 12 19:41	25°) 48′23	1°38'49	inferior conj	10101 Feb 24 23:46	9° ∺ 52'39	0°50'39
minimum elong	10100 Mar 12 17:42	25° ¥ 55′01	1°38'12	minimum elong	10101 Feb 24 22:33	9° ∺ 56'31	0°50'21
morning rise	10100 Mar 18 04:58	19° ∺ 49'14		morning rise	10101 Mar 02 15:54	4°) €02'32	
direct	10100 Mar 21 23:55	18° ∺ 26'55		direct	10101 Mar 05 23:16	2° ∺ 59'58	
morning max el	10100 Mar 29 11:03	22° ∺ 37′20	19°52'07	morning max el	10101 Mar 12 18:17	6°) 41′44	18°55'47
	10100 Apr 04 16:55	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	10101 Mar 26 18:56	25°) 41′36	-0.8m
desc. node	10100 Apr 10 11:02	8° Ƴ 01'32		desc. node	10101 Mar 28 07:50	28°) €02'54	
morning set	10100 Apr 25 01:32	29° Y 59′12			10101 Mar 29 14:15	0° Υ	
	10100 Apr 25 01:45	0° 8		morning set	10101 Apr 04 07:47	8° Y 52'56	
max. Earth dist.	10100 May 06 01:39	17° 8 11'14	1.44401 AU		10101 Apr 17 20:52	0°8	
		4.		max. Earth dist.	10101 Apr 18 18:28	1° 8 24'41	1.45382 AU
superior conj	10100 May 11 05:15	25° 8 27'15					
minimum elong	10100 May 11 06:43	25° 8 33'14	2°12'47	superior conj	10101 Apr 20 19:16	4° 8 36'18	
	10100 May 14 00:08	0°II		minimum elong	10101 Apr 20 13:24	4° 8 13'16	2°06'30
evening rise	10100 May 24 14:17	17° Ⅱ 44'38		evening rise	10101 May 05 19:42	28° 8 36'14	
	10100 May 31 19:55	0°99			10101 May 06 16:21	0°II	
asc. node	10100 Jun 03 10:02	4°9512'57	10000102	asc. node	10101 May 21 07:06	22° I I54'54	10020150
evening max el	10100 Jun 11 12:28	15°909'18	18°09'03	evening max el	10101 May 26 01:09	28° Ⅱ 40'54	18°30'50
retrograde	10100 Jun 17 21:24	18°9529'53		. 1	10101 May 27 11:48	0°©	
evening set	10100 Jun 20 17:23	17°548'14	2040152	retrograde	10101 Jun 01 12:34	2°911'26	
inferior conj	10100 Jun 26 20:47	12°932'21	2°40'52	evening set	10101 Jun 04 16:19 10101 Jun 06 09:46	1°©15′26	
minimum elong	10100 Jun 26 23:19 10100 Jun 29 14:24	12° © 25'28 9° © 35'28	2°39'54 0.62989 AU	inforior coni		30°RⅡ 25°Ⅱ42'30	3°08'09
min. Earth dist.	10100 Jul 29 14.24 10100 Jul 03 03:33	6°921'18	0.02989 AU	inferior conj	10101 Jun 10 09:48	25° I 37'59	
morning rise desc. node	10100 Jul 03 03:33	0 عور 118 4°908'41		minimum elong min. Earth dist.	10101 Jun 10 11:18 10101 Jun 12 12:49		0.64955 AU
direct	10100 Jul 07 10:48	3°949'28		morning rise	10101 Jun 16 05:22	19° II 23'58	0.04933 AO
morning max el	10100 Jul 09 21:02 10100 Jul 23 21:04	11°952'08	27°50'57	direct	10101 Jun 22 19:19	19 Ⅱ 23 38 16° Ⅱ 40'54	
morning max ci	10100 Jul 23 21:04 10100 Aug 07 05:48	0°Ω	27 30 37	desc. node	10101 Jun 24 07:53	16° Ⅱ 48'44	
	10100 Aug 07 03:40 10100 Aug 24 18:41	0° m)		morning max el	10101 Jul 06 07:20	24° I I37'05	27°13'50
morning set	10100 Aug 27 16:41 10100 Aug 27 06:51	4° m) 58'11		morning max er	10101 Jul 11 04:01	0°9	27 13 30
asc. node	10100 Aug 30 09:50	11° mp 23'33			10101 Jul 31 16:24	$0^{\circ}\Omega$	
max. Earth dist.	10100 Sep 01 11:35	15° Mp 46'44	1.32305 AU	morning set	10101 Aug 10 19:10	18° Ω 24'17	
				max. Earth dist.	10101 Aug 15 07:04	27° Ω 22'40	1.33460 AU
superior conj	10100 Sep 03 23:56	21° mp 12'18	0°44'26		10101 Aug 16 13:37	0°m	
minimum elong	10100 Sep 03 22:04	21° mp 02'07	0°43'59	asc. node	10101 Aug 17 06:40	1° m) 28'42	
C	10100 Sep 08 00:32	0∘ ⊽			C	•	
evening rise	10100 Sep 10 20:50	6° ≙ 09'48		superior conj	10101 Aug 19 03:12	5° m 22'45	0°18'20
Č	10100 Sep 23 07:53	0° M .		minimum elong	10101 Aug 19 02:17	5° m 17'55	0°17'56
desc. node	10100 Oct 03 08:51	13°ML26'49		evening rise	10101 Aug 26 07:43	20° m 43'37	
evening max el	10100 Oct 04 16:28	14°ML46'21	23°41'58		10101 Aug 30 19:54	0∘ ⊽	
retrograde	10100 Oct 18 05:36	21°MJ32'14		evening max el	10101 Sep 16 05:13	24° £ 55'36	22°02'25
evening set	10100 Oct 22 18:42	20°M47'13		desc. node	10101 Sep 20 06:06	28° ≙ 17'20	
min. Earth dist.	10100 Oct 29 02:43	17°ML45'03	0.55693 AU		10101 Sep 23 06:59	0° M	
inferior conj	10100 Oct 31 02:26	16°MJ33'56	-5°43'44	retrograde	10101 Sep 28 21:36	1°M14'26	
minimum elong	10100 Oct 31 02:47	16°M33'25	5°43'25	evening set	10101 Oct 01 23:33	0°M53'15	
morning rise	10100 Nov 08 12:46	12°M39'26			10101 Oct 04 19:32	30° ₹ Ω	
direct	10100 Nov 11 08:05	12°M19'50		inferior conj	10101 Oct 10 22:50	26° £ 53'56	-5°17'51
morning max el	10100 Nov 21 19:37	17° M L17'07	20°11'28	minimum elong	10101 Oct 10 15:22	27° ≏ 04'23	5°16'29
asc. node	10100 Nov 26 10:03	22°M33'10		min. Earth dist.	10101 Oct 10 09:56	27° ≙ 12'00	0.54757 AU
	10100 Dec 01 07:32	0° ∡ 7		morning rise	10101 Oct 19 08:41	23° ≏ 06'44	
morning set	10100 Dec 10 02:55	16° ∡ ¹47'07		direct	10101 Oct 22 19:41	22° ≙ 40'21	

morning max el	10101 Nov 03 20:12	28° ჲ 20'59	21°41'32	evening set	10102 Sep 11 11:55	10° ≙ 54'45	
	10101 Nov 05 11:54	0° M		inferior conj	10102 Sep 20 15:18	6° ≏ 58'09	-3°57'04
asc. node	10101 Nov 13 06:59	10°M22'20		minimum elong	10102 Sep 20 05:39	7° ≏ 12'06	3°54'06
	10101 Nov 23 18:42	0° ∡ ¹		min. Earth dist.	10102 Sep 21 18:29	6° ≏ 18'53	0.54728 AU
morning set	10101 Nov 24 12:34	1° ∡ °33′06		morning rise	10102 Sep 28 23:03	2° ≏ 57'22	
				direct	10102 Oct 03 03:53	2° ≏ 19'28	
superior conj	10101 Dec 01 16:56	16° ∡ ⁴43'16	1°36'13	morning max el	10102 Oct 16 10:43	8° ≏ 44'42	23°26'16
minimum elong	10101 Dec 01 18:17	16° ∡ ′50′17	1°36'33	asc. node	10102 Oct 31 03:54	28° ≏ 54'55	
max. Earth dist.	10101 Dec 05 21:10	25° х 18′09	1.34805 AU		10102 Oct 31 18:25	0° M	
	10101 Dec 08 05:59	8°0		morning set	10102 Nov 09 00:05	16°M21'39	
evening rise	10101 Dec 10 02:56	3° る 37'04			10102 Nov 15 07:36	0° ∡	
desc. node	10101 Dec 17 04:27	16° る 27'43					
	10101 Dec 25 11:40	0° ≈		superior conj	10102 Nov 15 22:17	1° ∡ 19'20	1°40'08
evening max el	10102 Jan 14 07:26	25° ≈ 23'41	26°45'38	minimum elong	10102 Nov 15 22:24	1° ∡ 19'58	1°40'30
	10102 Jan 19 21:29	0° ∀		max. Earth dist.	10102 Nov 18 16:59	7° ∡ 15'35	1.33280 AU
retrograde	10102 Jan 27 10:28	2°) 43′39		evening rise	10102 Nov 23 14:36	17° ∡ 19'55	
evening set	10102 Feb 02 22:24	0° ∺ 09'43			10102 Nov 30 06:47	0° る	
	10102 Feb 03 03:12	30° R ≈		desc. node	10102 Dec 04 01:28	6° ප 36'36	
min. Earth dist.	10102 Feb 06 23:26	26° ≈ 07'15	0.66053 AU		10102 Dec 19 21:11	0° ≈	
inferior conj	10102 Feb 08 22:20	23° ≈ 49'44		evening max el	10102 Dec 27 20:11	8° ≈ 50'50	27°21'46
minimum elong	10102 Feb 08 22:30	23° ≈ 49′15	0°06'00	retrograde	10103 Jan 10 09:51	16° ≈ 13'32	
transit middle	10102 Feb 08 22:30	23° ≈ 49′15	0°06'00	evening set	10103 Jan 17 06:25	13° ≈ 40′17	
transit begin	10102 Feb 08 19:47	23° ≈ 57'16		min. Earth dist.	10103 Jan 21 02:31	10° ≈ 10′19	0.64477 AU
transit end	10102 Feb 09 01:14	23° ≈ 41'14		inferior conj	10103 Jan 23 12:59	7° ≈ 34'06	-1°11'39
asc. node	10102 Feb 09 06:03	23° ≈ 27'07		minimum elong	10103 Jan 23 15:11	7° ≈ 28'11	1°10'21
morning rise	10102 Feb 14 23:42	18° ≈ 10′50		asc. node	10103 Jan 27 03:13	4° ≈ 02'18	
direct	10102 Feb 17 20:52	17° ≈ 24'58		morning rise	10103 Jan 30 01:43	2° ≈ 08'54	
morning max el	10102 Feb 24 07:42	20°≈50'50	18°15'54	direct	10103 Feb 01 14:27	1° ≈ 36′02	
	10102 Mar 03 12:21	0° ∀		morning max el	10103 Feb 08 00:39	4°≈57'01	17°52'54
desc. node	10102 Mar 15 04:37	18° ¥ 21′29			10103 Feb 24 18:07	0° ∀	
morning set	10102 Mar 15 15:37	19°) €05'38		morning set	10103 Feb 25 04:25	0°) 43′15	
	10102 Mar 22 11:24	0° Y		desc. node	10103 Mar 02 01:24	8° ¥ 51'49	
superior conj	10102 Mar 31 01:12	13° ℃ 31′10		superior conj	10103 Mar 10 17:36	23°) €01'00	
minimum elong	10102 Mar 30 15:39	12° Υ ′53'44		minimum elong	10103 Mar 10 10:50	22°) (33'52	1°00'18
max. Earth dist.	10102 Apr 01 14:11		1.45624 AU		10103 Mar 15 02:58	0°Υ ••••••••	
	10102 Apr 10 14:27	0°8		max. Earth dist.	10103 Mar 15 09:27	0° Υ 25'36	1.45125 AU
evening rise	10102 Apr 16 01:58	8° 8 33'27	0.0	evening rise	10103 Mar 26 16:09	17° Y 57'09	
greatest brilliancy	10102 Apr 27 05:14	25° 8 50'49	-0.8m		10103 Apr 03 14:04	0° 8	0.6
	10102 Apr 29 23:29	0°Ⅱ 100Ⅲ50122		greatest brilliancy	10103 Apr 10 15:42	10° 8 30'10	
asc. node	10102 May 08 04:13	10° Ⅱ 59'23	10000157	evening max el	10103 Apr 22 14:36	26° 8 01'07	20°04'57
evening max el	10102 May 09 10:25	12° Ⅱ 19'44	19°09'57	asc. node	10103 Apr 25 01:24	28° 8 13'53	
retrograde	10102 May 16 08:50	16° Ⅱ 12'54		. 1	10103 Apr 28 00:37	0°Ⅱ 0°Ⅲ27/22	
evening set	10102 May 19 20:41	15° Ⅱ 01'47	2010125	retrograde	10103 Apr 30 07:19	0° I I27'23 30°Ŗ ႘	
inferior conj	10102 May 25 07:48	9° Ⅱ 13'28	3°18'35 3°18'11		10103 May 02 11:44		
minimum elong	10102 May 25 08:05	9° Ⅱ 12'32 7° Ⅱ 17'44	0.66538 AU	evening set	10103 May 04 04:03 10103 May 09 11:47	29° 8 00'47 22° 8 58'54	3°15'28
min. Earth dist. morning rise	10102 May 26 19:42 10102 May 30 19:00	7 П 1744 2° П 53'01	0.00338 AU	inferior conj minimum elong	10103 May 09 11:47 10103 May 09 10:59	22 8 38 34 23° 8 01'37	
direct	10102 May 30 19:00 10102 Jun 06 00:37	2 П 3301 0° П 09'44		min. Earth dist.	10103 May 10 09:16	21° 8 46'04	0.67683 AU
desc. node	10102 Jun 10 00:57	1° Ⅱ 40'38		morning rise	10103 May 10 03:10 10103 May 14 17:36	16° 8 40'04	0.07083 AU
morning max el	10102 Jun 18 18:04	7° П 45'45	26°00'20	direct	10103 May 14 17.30 10103 May 20 11:49	14° 8 06'10	
morning max ci	10102 Jul 16 18:04 10102 Jul 06 01:37	0°9	20 09 29	desc. node	10103 May 20 11:49 10103 May 29 01:52	18° 8 13'30	
	10102 Jul 00 01:37	0°€0		morning max el	10103 Jun 01 03:46	21° 8 06'11	24°47'27
morning set	10102 Jul 24 18:49	1° Ω 12'50		morning max cr	10103 Jun 08 20:09	0° П	24 4/2/
max. Earth dist.	10102 Jul 28 16:02		1.35103 AU		10103 Jun 08 20:09 10103 Jun 29 06:52	0°©	
max. Darui Uist.	10102 Jul 20 10.02	0 0633 18	1.55105 AU	morning set	10103 Jul 29 06.32 10103 Jul 07 01:18	13° © 11'39	
superior conj	10102 Aug 02 23:08	19° Ω 08'35	-0°11'38	max. Earth dist.	10103 Jul	19° © 39'46	1.37152 AU
minimum elong	10102 Aug 02 23:50	19° Ω 12'07		max. Lartii dist.	10103 Jul 16 03:27	0°Ω	1.57152 AO
behind sun begin	10102 Aug 02 23:30 10102 Aug 02 19:43	$18^{\circ} \Omega 51'07$	V 117/		10105 Jul 10 05.27	v 0t	
behind sun end	10102 Aug 02 19:43 10102 Aug 03 03:57	19° Ω 33'08		superior conj	10103 Jul 17 08:40	2° Ω 21'46	-0°44'09
asc. node	10102 Aug 03 03:37 10102 Aug 04 03:32	21° Ω 34'07		minimum elong	10103 Jul 17 08:40	2°Ω35'36	
abc. 110de	10102 Aug 04 05:32 10102 Aug 08 05:00	0° mp		asc. node	10103 Jul 22 00:27	11° Ω 35'37	5 1701
evening rise	10102 Aug 08 05:00 10102 Aug 10 16:04	5° Mg 07'01		evening rise	10103 Jul 25 19:29	11° Ω 13'11	
Svening 1150	10102 Aug 10 10:04 10102 Aug 24 12:23	0∘ ⊽		evening rise	10103 Jul 23 19.29 10103 Jul 31 08:06	0° m)	
evening max el	10102 Aug 24 12.23 10102 Aug 29 04:14	0 <u>≈</u> 5° Ω 31'23	20°34'31	evening max el	10103 Jul 31 08:06 10103 Aug 11 17:03	0 my 16° my 52'21	19°25'59
desc. node	10102 Aug 29 04.14 10102 Sep 07 03:19	10° £ 52'19	40 J+J1	retrograde	10103 Aug 11 17.03 10103 Aug 21 05:34	21° Mp 35'41	11 43 37
retrograde	10102 Sep 07 03.19 10102 Sep 09 09:41	10 <u>≈</u> 32 19 11° <u>°</u> 05'33		evening set	10103 Aug 21 03.34 10103 Aug 23 01:40	21° m) 25'53	
renograue	10102 Sep 03 03.41	11 ==03.33		evening set	10103 Aug 23 01.40	21 Hy 23 33	

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	10105 Jun 29 17:42	$0^{\circ}\Omega$		evening max el	10106 Jun 21 15:26	24°9548'36	18°04'36
evening max el	10105 Jul 08 02:36	11° Ω 40'48	18°11'52	retrograde	10106 Jun 28 03:20	28°9510'05	10 0.50
retrograde	10105 Jul 15 03:25	15° Ω 14'22		evening set	10106 Jun 30 18:45	27°936'06	
evening set	10105 Jul 17 11:05	14°Ω51'45		inferior conj	10106 Jul 07 05:36	22°930'31	2°15'55
inferior conj	10105 Jul 24 14:01	10° Ω 05'37	1°13'33	minimum elong	10106 Jul 07 08:25	22°523'21	2°14'44
minimum elong	10105 Jul 24 16:14	10° Ω 00'43	1°12'26	min. Earth dist.	10106 Jul 10 06:17	19° © 27'37	0.61732 AU
min. Earth dist.	10105 Jul 27 22:16	7° Ω 10′08	0.59467 AU	morning rise	10106 Jul 13 19:50	16° © 26'56	
desc. node	10105 Jul 28 18:59	6° Ω 27'57		desc. node	10106 Jul 15 16:08	15° © 19'58	
morning rise	10105 Jul 31 18:15	4° Ω 24'00		direct	10106 Jul 20 12:09	14° © 06'49	
direct	10105 Aug 07 03:28	2° Ω 30'39		morning max el	10106 Aug 03 17:03	22° © 08'16	27°56'57
morning max el	10105 Aug 21 12:02	10° Ω 20'46	27°37'29	•	10106 Aug 10 14:46	$0^{\circ}\Omega$	
	10105 Sep 05 17:22	0° m)			10106 Aug 29 21:05	0° m)	
asc. node	10105 Sep 20 18:29	27° m 15'09		morning set	10106 Sep 06 06:18	14° m) 21'30	
morning set	10105 Sep 22 04:42	0° £ 12'56		asc. node	10106 Sep 07 15:19	17° m 12'18	
	10105 Sep 22 02:14	0∘ 亚		max. Earth dist.	10106 Sep 11 21:19	26° Mp 16'52	1.31872 AU
max. Earth dist.	10105 Sep 28 14:14	14° ≙ 06′10	1.31505 AU				
				superior conj	10106 Sep 13 16:49	0° ≙ 14'53	0°57'25
superior conj	10105 Sep 29 06:52	15° ≏ 38'33	1°16'06	minimum elong	10106 Sep 13 14:39	0° ჲ 03'04	0°56'59
minimum elong	10105 Sep 29 04:40	15° ≙ 26'18	1°15'53		10106 Sep 13 14:06	0∘ ⊽	
	10105 Oct 05 19:24	0°M₊		evening rise	10106 Sep 20 11:19	15° ≙ 05'27	
evening rise	10105 Oct 06 00:24	0°M26'50			10106 Sep 27 19:31	0° M.	
	10105 Oct 21 22:58	0° ∡ ¹		desc. node	10106 Oct 11 14:07	21° M 25'17	
desc. node	10105 Oct 24 16:55	4° ∡ °02′25		evening max el	10106 Oct 16 00:41	26°M13'53	24°38'38
evening max el	10105 Nov 03 10:41	15° ∡ ³36′17	26°05'13		10106 Oct 20 15:28	0° ∡ ¹	
retrograde	10105 Nov 17 08:30	22° ∡ ³39'34		retrograde	10106 Oct 29 19:32	3° ₹ 09'10	
evening set	10105 Nov 23 18:12	21° ₹ '01'56		evening set	10106 Nov 04 04:03	2° ∡ ¹05'14	
min. Earth dist.	10105 Nov 27 23:32	18° ∡ ¹27′02	0.58445 AU		10106 Nov 08 08:25	30°RM₊	
inferior conj	10105 Dec 01 02:23	16° ∡ 10'40	-4°46'22	min. Earth dist.	10106 Nov 09 11:54	29° ™ 18'17	0.56556 AU
minimum elong	10105 Dec 01 10:09	15° ∡ 56′29	4°44'07	inferior conj	10106 Nov 12 01:59	27° M 39'31	-5°33'56
morning rise	10105 Dec 09 04:33	11° ∡ ¹44'23		minimum elong	10106 Nov 12 06:26	27° MJ $32'25$	5°33'08
direct	10105 Dec 11 09:36	11° ≯ ¹28'16		morning rise	10106 Nov 20 11:01	23°M35'22	
asc. node	10105 Dec 17 18:29	13° ∡ ′51′29		direct	10106 Nov 22 23:09	23°M18'12	
morning max el	10105 Dec 19 16:22	15° ∡ ³30′21	18°34'04	morning max el	10106 Dec 02 13:52	27°M52'49	19°29'31
	10105 Dec 29 18:29	5°0		asc. node	10106 Dec 04 15:28	0° ∡ °03′28	
morning set	10106 Jan 04 17:41	11° る 13'12			10106 Dec 04 14:16	0° ∡ ¹	
				morning set	10106 Dec 19 20:07	25° ∡ ¹42'03	
				morning sec	10100 DCC 19 20.07		
superior conj	10106 Jan 13 14:28	28° る 10'40	0°52'27	morning sec	10106 Dec 19 20:07	0°중	
superior conj minimum elong	10106 Jan 13 14:28 10106 Jan 13 17:32	28° ට 10'40 28° ට 24'57	0°52'27 0°52'25	morning sec			
				superior conj		0°ප 11°පි42'50	
	10106 Jan 13 17:32	28° る 24'57		-	10106 Dec 21 23:21	0°පි 11°පි42'50 11°පි57'15	
minimum elong	10106 Jan 13 17:32 10106 Jan 14 14:03	28° පි 24'57 0°≈		superior conj	10106 Dec 21 23:21 10106 Dec 27 20:12	0°ප 11°පි42'50	
minimum elong desc. node	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53	28° ♂ 24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13	0°52'25	superior conj minimum elong	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09	0°පි 11°පි42'50 11°පි57'15	1°15'47
minimum elong desc. node max. Earth dist.	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47	28° ♂ 24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0° 兴	0°52'25	superior conj minimum elong max. Earth dist. evening rise	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34	0°පි 11°පි42'50 11°පි57'15 23°පි51'08 0°≈32'48 0°≈	1°15'47
minimum elong desc. node max. Earth dist. evening rise	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34	28°₹24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0°₩ 0°Υ	0°52'25 1.40127 AU	superior conj minimum elong max. Earth dist.	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50	1°15'47
minimum elong desc. node max. Earth dist. evening rise	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41	28°♂24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0°升 0°Υ 7°Υ15'28	0°52'25	superior conj minimum elong max. Earth dist. evening rise desc. node	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0°¥	1°15'47 1.37920 AU
minimum elong desc. node max. Earth dist. evening rise	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30	28°♂24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0°升 0°Υ 7°Υ15'28 13°Υ42'29	0°52'25 1.40127 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0°升 21°升04'33	1°15'47
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02	28°♂24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0° ¥ 0° Y 7° Y 15'28 13° Y 42'29 12° Y 32'11	0°52'25 1.40127 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Feb 23 10:24	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0°¥ 21°¥04'33 28°¥01'38	1°15'47 1.37920 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03	28°♂24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0° ¥ 0°Y 7°Y15'28 13°Y42'29 12°Y32'11 11°Y31'08	0°52'25 1.40127 AU 23°50'20	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Feb 23 10:24 10107 Mar 01 04:05	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0°米 21°¥04'33 28°¥01'38 25°¥38'35	1°15'47 1.37920 AU
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 12:52	28°♂24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0° ¥ 0° Y 7° Y 15'28 13° Y 42'29 12° Y 32'11 11° Y 31'08 5° Y 59'32 5° Y 02'54	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Feb 23 10:24 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0° ¥ 21° ¥04'33 28° ¥01'38 25° ¥38'35 24° ¥17'52 20° ¥41'46	1°15'47 1.37920 AU 25°07'41 0.67795 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 12:52 10106 Mar 22 10:42	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0° 光 21° 光04'33 28° 光01'38 25° 光38'35 24° 光17'52 20° 光41'46 19° 光09'02	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 27 19:22 10106 Mar 31 21:32	28°€24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0°¥ 0°Y 7°Y15'28 13°Y42'29 12°Y32'11 11°Y31'08 5°Y59'32 5°Y02'54 5°Y10'18 30°R¥ 28°¥59'41 27°¥25'14	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 15 20:49	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0°米 21°∀04'33 28°∀01'38 25°∀38'35 24°¥17'52 20°¥41'46 19°∀09'02 19°¥14'43 13°¥13'39 12°¥00'15	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 27 19:22 10106 Mar 31 21:32 10106 Apr 06 17:18	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° ₹ ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 15 20:49 10107 Mar 23 00:18	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0° ¥ 21° ₩04'33 28° ₩01'38 25° ₩38'35 24° ₩17'52 20° ₩41'46 19° ₩09'02 19° ₩14'43 13° ₩13'39 12° ₩00'15 15° ₩57'13	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 12:52 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° ₹ ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ 1° Ŷ57'29	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 01 04:05 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 19:08 10107 Mar 12 07:02 10107 Mar 15 20:49 10107 Mar 23 00:18 10107 Apr 02 22:42	0°る 11°る42'50 11°る57'15 23°る51'08 0°≈32'48 0°≈ 1°≈33'50 0°米 21°米04'33 28°米01'38 25°米38'35 24°米17'52 20°米41'46 19°米09'02 19°米14'43 13°米13'39 12°米00'15 15°米57'13 0°℃	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 21 20:15 10106 Mar 22 12:52 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19 10106 Apr 18 16:30	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° ₹ ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ 1° Ŷ57'29 14° Ŷ01'44	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 01 04:05 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 15 20:49 10107 Mar 23 00:18 10107 Apr 02 22:42 10107 Apr 04 17:48	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0° ₭ 21° ₭04'33 28° ₭01'38 25° ₭38'35 24° ₭17'52 20° ₭41'46 19° ₭09'02 19° ₭14'43 13° ₭13'39 12° ₭00'15 15° ₭57'13 0° ❤ 2° ❤38'09	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 21 20:15 10106 Mar 22 12:52 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 27 19:22 10106 Apr 08 21:19 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05	28°€24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0°¥ 0°Y 7°Y15'28 13°Y42'29 12°Y32'11 11°Y31'08 5°Y59'32 5°Y02'54 5°Y10'18 30°₹¥ 28°¥59'41 27°¥25'14 0°Y 1°Y57'29 14°Y01'44 0°8	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Feb 23 10:24 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 02 22:42 10107 Apr 04 17:48 10107 Apr 05 13:18	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0° ₭ 21° ₭04'33 28° ₭01'38 25° ₭38'35 24° ₭17'52 20° ₭41'46 19° ₭09'02 19° ₭14'43 13° ₭13'39 12° ₭00'15 15° ₭57'13 0° \(\text{0°}\) 2°\(\text{738'09}\) 3°\(\text{750'31}	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 21 20:15 10106 Mar 22 12:52 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 27 19:22 10106 Apr 08 21:19 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 07 20:58	28° ₹24'57 0° ≈ 10° ≈ 54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° R ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ 1° Ŷ57'29 14° Ŷ01'44 0° ႘ 12° ႘31'07	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48 20°31'29	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Feb 23 10:24 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 02 22:42 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 16 20:09	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0° ₭ 21° ₭04'33 28° ₭01'38 25° ₭38'35 24° ₭17'52 20° ₭41'46 19° ₭09'02 19° ₭14'43 13° ₭13'39 12° ₭00'15 15° ₭57'13 0° ♥ 2° ♥738'09 3° ♥50'31 21° ♥00'33	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 22 10:42 10106 Mar 27 19:22 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 07 20:58 10106 May 16 19:45	28° ₹24'57 0° ≈ 10° ≈ 54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ10'18 30° R ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ 1° Ŷ57'29 14° Ŷ01'44 0° ℧ 12° ℧ 31'07 26° ℧ 38'49	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 02 22:42 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 16 20:09 10107 Apr 16 20:09 10107 Apr 22 15:33	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0°ℋ 21°ℋ04'33 28°ℋ01'38 25°ℋ38'35 24°ℋ17'52 20°ℋ41'46 19°ℋ09'02 19°ℋ14'43 13°ℋ13'39 12°ℋ00'15 15°ℋ57'13 0°♈ 2°℉38'09 3°℉50'31 21°℉00'33 0°♂	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59 19°26'17 -0.7m
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 21 20:15 10106 Mar 22 12:52 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 27 19:22 10106 Apr 08 21:19 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 07 20:58	28° ₹24'57 0° ≈ 10° ≈ 54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° R ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ 1° Ŷ57'29 14° Ŷ01'44 0° ႘ 12° ႘31'07	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48 20°31'29	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Feb 23 10:24 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 02 22:42 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 16 20:09	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0° ₭ 21° ₭04'33 28° ₭01'38 25° ₭38'35 24° ₭17'52 20° ₭41'46 19° ₭09'02 19° ₭14'43 13° ₭13'39 12° ₭00'15 15° ₭57'13 0° ♥ 2° ♥738'09 3° ♥50'31 21° ♥00'33	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 22 10:42 10106 Mar 27 19:22 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 16 19:45 10106 May 18 21:28	28°€24'57 0°≈ 10°≈54'42 11°≈28'52 18°≈35'13 0°¥ 0°Y 7°Y15'28 13°Y42'29 12°Y32'11 11°Y31'08 5°Y59'32 5°Y02'54 5°Y10'18 30°R¥ 28°¥59'41 27°¥25'14 0°Y 1°Y57'29 14°Y01'44 0°∀ 12°♥31'07 26°♥38'49 0°II	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48 20°31'29 1.43543 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 05 14:46 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 05 13:18 10107 Apr 16 20:09 10107 Apr 22 15:33 10107 Apr 29 09:15	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0°ℋ 21°₩04'33 28°₩01'38 25°₩38'35 24°₩17'52 20°₩41'46 19°₩09'02 19°₩14'43 13°₩13'39 12°₩00'15 15°₩57'13 0°Ψ 2°¶38'09 3°¶50'31 21°¶00'33 0°ੴ 10°ੴ33'04	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59 19°26'17 -0.7m
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 22 10:42 10106 Mar 27 19:22 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 07 20:58 10106 May 16 19:45 10106 May 18 21:28	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ' 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° R ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ' 1° Ŷ57'29 14° Ŷ01'44 0° & 12° ♂31'07 26° ♂38'49 0° ∏	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48 20°31'29 1.43543 AU -2°07'05	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 01 04:05 10107 Mar 06 19:08 10107 Mar 06 19:08 10107 Mar 12 07:02 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 05 13:18 10107 Apr 16 20:09 10107 Apr 22 15:33 10107 Apr 29 09:15	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0°ℋ 21°₩04'33 28°₩01'38 25°₩38'35 24°₩17'52 20°₩41'46 19°₩09'02 19°₩14'43 13°₩13'39 12°₩00'15 15°₩57'13 0°₩ 2°₩38'09 3°❤50'31 21°❤00'33 0°♂ 10°♥33'04	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59 19°26'17 -0.7m 1.44898 AU -2°12'28
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 22 10:42 10106 Mar 26 15:52 10106 Mar 27 19:22 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 07 20:58 10106 May 16 19:45 10106 May 18 21:28	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° R ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ 1° Ŷ57'29 14° Ŷ01'44 0° ¥ 12° ¥31'07 26° ¥38'49 0° Ⅱ 7° Ⅲ10'05 7° Ⅲ29'00 28° Ⅲ24'14	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48 20°31'29 1.43543 AU -2°07'05	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 07 12:51 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 02 14:12 10107 Mar 06 19:08 10107 Mar 06 17:24 10107 Mar 12 07:02 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 02 22:42 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 05 13:18 10107 Apr 22 15:33 10107 Apr 29 09:15 10107 May 03 07:28 10107 May 03 07:28 10107 May 03 07:28 10107 May 03 05:54 10107 May 11 11:29	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0°ℋ 21°₩04'33 28°₩01'38 25°₩38'35 24°₩17'52 20°₩41'46 19°₩09'02 19°₩14'43 13°₩13'39 12°₩00'15 15°₩57'13 0°Ψ 2°Ψ38'09 3°Ψ50'31 21°Ψ00'33 0°₩ 10°₩33'04	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59 19°26'17 -0.7m 1.44898 AU -2°12'28
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10106 Jan 13 17:32 10106 Jan 14 14:03 10106 Jan 20 15:56 10106 Jan 20 23:47 10106 Jan 25 03:53 10106 Feb 01 05:19 10106 Feb 22 10:34 10106 Feb 28 21:41 10106 Mar 11 20:30 10106 Mar 15 17:02 10106 Mar 17 02:03 10106 Mar 21 20:15 10106 Mar 22 10:42 10106 Mar 22 10:42 10106 Mar 27 19:22 10106 Mar 31 21:32 10106 Apr 06 17:18 10106 Apr 08 21:19 10106 Apr 18 16:30 10106 Apr 29 16:05 10106 May 07 20:58 10106 May 16 19:45 10106 May 18 21:28	28° ₹24'57 0° ≈ 10° ≈54'42 11° ≈28'52 18° ≈35'13 0° ¥ 0° Ŷ' 7° Ŷ15'28 13° Ŷ42'29 12° Ŷ32'11 11° Ŷ31'08 5° Ŷ59'32 5° Ŷ02'54 5° Ŷ10'18 30° R ¥ 28° ¥59'41 27° ¥25'14 0° Ŷ' 1° Ŷ57'29 14° Ŷ01'44 0° & 12° ♂31'07 26° ♂38'49 0° ∏	0°52'25 1.40127 AU 23°50'20 0.68412 AU 2°02'28 2°01'48 20°31'29 1.43543 AU -2°07'05	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	10106 Dec 21 23:21 10106 Dec 27 20:12 10106 Dec 27 23:09 10107 Jan 03 05:34 10107 Jan 06 22:56 10107 Jan 06 15:29 10107 Jan 07 12:51 10107 Jan 25 11:37 10107 Feb 11 10:56 10107 Mar 01 04:05 10107 Mar 01 04:05 10107 Mar 06 19:08 10107 Mar 06 19:08 10107 Mar 12 07:02 10107 Mar 12 07:02 10107 Mar 23 00:18 10107 Apr 04 17:48 10107 Apr 05 13:18 10107 Apr 05 13:18 10107 Apr 16 20:09 10107 Apr 22 15:33 10107 Apr 29 09:15	0°♂ 11°♂42'50 11°♂57'15 23°♂51'08 0°≈32'48 0°≈ 1°≈33'50 0°ℋ 21°₩04'33 28°₩01'38 25°₩38'35 24°₩17'52 20°₩41'46 19°₩09'02 19°₩14'43 13°₩13'39 12°₩00'15 15°₩57'13 0°₩ 2°₩38'09 3°❤50'31 21°❤00'33 0°♂ 10°♥33'04	1°15'47 1.37920 AU 25°07'41 0.67795 AU 1°19'29 1°18'59 19°26'17 -0.7m 1.44898 AU -2°12'28

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	10107 May 29 19:09	0°€			10108 May 03 07:32	0°II	
evening max el	10107 Jun 05 05:03	8°514'11	18°16'03	greatest brilliancy	10108 May 05 07:57	3° Ⅱ 11'44	-0.8m
retrograde	10107 Jun 11 14:06	11°937'35		asc. node	10108 May 15 09:36	18° Ⅱ 02'33	10045105
evening set	10107 Jun 14 13:15	10°950'10	205442	evening max el	10108 May 18 16:36	21° II 49'53	18°45'27
inferior conj	10107 Jun 20 12:00	5°526'58	2°54'42	retrograde	10108 May 25 07:44	25° Ⅱ 28'25	
minimum elong	10107 Jun 20 14:09	5°920'50	2°53'53	evening set	10108 May 28 14:51 10108 Jun 03 05:16	24° Ⅱ 26'08 18° Ⅱ 46'46	201.4122
min. Earth dist.	10107 Jun 22 23:41	2°538'16	0.63867 AU	inferior conj			3°14'22 3°13'52
marning rise	10107 Jun 25 14:41 10107 Jun 26 13:40	30°RⅡ 29°Ⅱ11'34		minimum elong min. Earth dist.	10108 Jun 03 06:15 10108 Jun 05 01:56	18° Ⅱ 43'41 16° Ⅱ 28'37	0.65685 AU
morning rise desc. node	10107 Jul 20 13:40 10107 Jul 02 13:13	26° I I35'02		morning rise	10108 Jun 08 20:56	10 П 26'57	0.03063 AU
direct	10107 Jul 02 13:13	26° I I33'20		direct	10108 Jun 15 07:58	9° Ⅱ 42'08	
direct	10107 Jul 11 20:35	0°95		desc. node	10108 Jun 18 10:15	10° Ⅱ 14'40	
morning max el	10107 Jul 17 02:13	4° © 35'40	27°38'53	morning max el	10108 Jun 28 12:45	17° I I31'40	26°49'06
morning max cr	10107 Aug 05 06:07	0°Ω	27 30 33	morning max cr	10108 Jul 08 22:46	0°95	20 47 00
morning set	10107 Aug 21 00:20	28° Ω 05'42			10108 Jul 28 04:11	$0 {\circ} \Omega$	
morning sec	10107 Aug 21 23:13	0° m)		morning set	10108 Aug 03 07:47	11° Ω 17'31	
asc. node	10107 Aug 25 12:10	7° m) 15'59		max. Earth dist.	10108 Aug 07 12:41	19° Ω 30'45	1.34103 AU
max. Earth dist.	10107 Aug 25 21:49	8° m) 06'32	1.32736 AU	asc. node	10108 Aug 11 09:03	27° Ω 22'09	
superior conj	10107 Aug 28 23:10	14° Mp 36'52	0°33'53	superior conj	10108 Aug 11 23:42	28° Ω 38'25	0°06'03
minimum elong	10107 Aug 28 21:37	14° m 28'34	0°33'25	minimum elong	10108 Aug 11 23:24	28° Ω 36'48	0°05'44
evening rise	10107 Sep 04 22:46	29° m/42'38		behind sun begin	10108 Aug 11 18:00	28° Ω 08'42	
	10107 Sep 05 02:01	0∘ ⊽		behind sun end	10108 Aug 12 04:47	29° Ω 04'57	
	10107 Sep 21 22:04	0° M			10108 Aug 12 15:19	0° ™	
evening max el	10107 Sep 27 11:26	6°M23'53	22°58'55	evening rise	10108 Aug 19 08:52	14° m 13'07	
desc. node	10107 Sep 28 11:21	7°M20'00			10108 Aug 27 08:32	0∘ ⊽	
retrograde	10107 Oct 10 18:07	13°ML00'57		evening max el	10108 Sep 08 03:59	16° ≏ 42'13	21°22'59
evening set	10107 Oct 14 15:28	12°M27'56		desc. node	10108 Sep 14 08:35	21° ≏ 17'01	
min. Earth dist.	10107 Oct 21 20:20	9° ™ 10'39	0.55189 AU	retrograde	10108 Sep 20 06:50	22° ≏ 43'04	
inferior conj	10107 Oct 23 06:27	8°M21'30	-5°39'54	evening set	10108 Sep 22 20:31	22° ≏ 27'53	
minimum elong	10107 Oct 23 03:15	8°M26'07	5°39'27	inferior conj	10108 Oct 01 23:33	18° ≏ 31'48	-4°49'27
morning rise	10107 Oct 31 16:52	4° ™ 31'59		minimum elong	10108 Oct 01 14:11	18° ≏ 44'55	
direct	10107 Nov 03 18:12	4° ™ 10'05		min. Earth dist.	10108 Oct 02 04:05	18° ≏ 25'27	0.54628 AU
morning max el	10107 Nov 14 22:11	9°M25'55	20°47'29	morning rise	10108 Oct 10 08:37	14° ≏ 41'14	
asc. node	10107 Nov 21 12:25	17° M 21'40		direct	10108 Oct 14 03:11	14° £ 10'27	
	10107 Nov 28 23:06	0° ∡ ¹		morning max el	10108 Oct 26 17:45	20° ≏ 10'46	22°24'55
morning set	10107 Dec 04 03:46	10° ∡ ′23′30		,	10108 Nov 03 21:09	0°M 5°M 21117	
	10107 D 11 12 47	25° ∡ ¹47'35	1020152	asc. node	10108 Nov 07 09:21	5°M31'17	
superior conj	10107 Dec 11 13:47	25° x' 47'35 25° x' 57'58		morning set	10108 Nov 17 14:29 10108 Nov 19 20:44	25°M₁1'35 0°⊀	
minimum elong	10107 Dec 11 15:49 10107 Dec 13 15:31	23 x・3/38 0°る	1 31 08		10108 NOV 19 20.44	0 x .	
max. Earth dist.	10107 Dec 13 13:31 10107 Dec 16 13:46	5° る 47'42	1.35852 AU	superior conj	10108 Nov 24 15:43	10° ∡ 15'04	1°38'40
evening rise	10107 Dec 10 13:40 10107 Dec 20 12:41	13°る19'00	1.55652 AU	minimum elong	10108 Nov 24 15:43 10108 Nov 24 16:32	10 × 13 04 10°× 19'24	1°39'03
desc. node	10107 Dec 25 09:48	22°る05'16		max. Earth dist.	10108 Nov 28 05:09	17°×7'41'58	1.34105 AU
dese. node	10107 Dec 30 02:15	0° ≈		evening rise	10108 Dec 02 17:29	26° х 44'32	1.5 1105 110
	10108 Jan 20 10:08	0° ∀		evening rise	10108 Dec 04 10:09	0°る	
evening max el	10108 Jan 25 00:16	4°) 52′07	26°14'48	desc. node	10108 Dec 11 06:50	12° る 24'30	
retrograde	10108 Feb 06 19:12	12° ¥ 07'16			10108 Dec 22 10:25	0° ≈	
evening set	10108 Feb 13 00:43	9°) 36′08		evening max el	10109 Jan 06 13:49	18° ≈ 30'49	27°04'11
min. Earth dist.	10108 Feb 17 05:04	5°) 13'47	0.66789 AU	retrograde	10109 Jan 19 22:06	25° ≈ 52'29	
asc. node	10108 Feb 17 11:23	4°) 54'38		evening set	10109 Jan 26 13:59	23° ≈ 18′19	
inferior conj	10108 Feb 18 21:08	3° ¥ 10'47	0°27'31	min. Earth dist.	10109 Jan 30 12:54	19° ≈ 29'43	0.65421 AU
minimum elong	10108 Feb 18 20:25	3°) 12′59	0°27'29	inferior conj	10109 Feb 01 16:40	17° ≈ 03'25	-0°33'05
	10108 Feb 21 14:43	30° R ≈		minimum elong	10109 Feb 01 17:37	17° ≈ 00'42	0°32'21
morning rise	10108 Feb 24 16:54	27° ≈ 24'59		asc. node	10109 Feb 03 08:33	15° ≈ 13′13	
direct	10108 Feb 27 19:38	26° ≈ 30'02		morning rise	10109 Feb 07 22:36	11° ≈ 29'41	
	10108 Mar 05 08:44	0° ∀		direct	10109 Feb 10 16:00	10° ≈ 49'43	
morning max el	10108 Mar 05 10:23	0°) €04'02	18°36'47	morning max el	10109 Feb 17 01:34	14°≈12'17	18°03'59
desc. node	10108 Mar 22 10:04	23°) € 59'40			10109 Feb 28 10:39	0°) {	
morning set	10108 Mar 26 11:51	0° Υ 23'46		morning set	10109 Mar 07 08:17	11°) 13'38	
	10108 Mar 26 05:48	0°Υ 24° 20 5 40 6		desc. node	10109 Mar 09 06:52	14°) €23'41	
max. Earth dist.	10108 Apr 11 03:05	24° Y 54'06	1.45573 AU		10109 Mar 18 23:24	0° Ƴ	
superior conj	10108 Apr 11 15:55	25° Ƴ 44'19	-1°57'50	superior conj	10109 Mar 22 00:03	4° Y '47'37	-1°25'03
minimum elong	10108 Apr 11 07:40	25° Y 12'01	1°57'26	minimum elong	10109 Mar 21 15:03	4° Υ 12'07	1°24'02
	10108 Apr 14 09:13	0°8		max. Earth dist.	10109 Mar 24 23:04	9° Y 26'52	1.45505 AU
evening rise	10108 Apr 27 05:22	20° 8 17'26		evening rise	10109 Apr 07 03:19	29° Y 55'59	

greatest brilliancy	10109 Apr 07 04:22 10109 Apr 20 05:35 10109 Apr 27 07:45	0° 8 19° 8 56'54 0° I I	-0.7m	superior conj minimum elong max. Earth dist.	10110 Mar 02 01:16 10110 Mar 01 20:38 10110 Mar 07 18:10	14°) 43′06 14°) 24′13 23°) 53′43	-0°42'55 0°42'06 1.44703 AU
evening max el asc. node	10109 May 01 23:57 10109 May 02 06:45	5° Ⅱ 30'18 5° Ⅱ 47'16	19°31'36	evening rise	10110 Mar 11 15:06 10110 Mar 17 14:55	0° Υ 9° Υ 17'04	
retrograde evening set	10109 May 09 05:09 10109 May 12 20:47	9° Ⅱ 35'56 8° Ⅱ 18'07		evening max el	10110 Mar 31 10:03 10110 Apr 15 01:47	0° と 19° と 12'11	20°32'32
inferior conj	10109 May 18 06:07	2° Ⅱ 23'56	3°18'45	asc. node	10110 Apr 19 03:56	22° 8 36'20	
minimum elong	10109 May 18 05:55	2° Ⅱ 24'36	3°18'22	retrograde	10110 Apr 23 03:54	23° 8 54'45	
min. Earth dist.	10109 May 19 11:46 10109 May 20 02:00	0°Ⅱ46'05 30°R ႘	0.67085 AU	evening set inferior conj	10110 Apr 27 04:50 10110 May 02 11:52	22° 8 21'16 16° 8 14'02	3°10'37
morning rise	10109 May 23 14:42	26° 8 04'07		minimum elong	10110 May 02 11:32	16° 8 18'07	
direct	10109 May 29 15:51	23° 8 23'48		min. Earth dist.	10110 May 03 03:26	15° 8 20'36	0.68028 AU
desc. node	10109 Jun 05 07:15	25° 8 52'49		morning rise	10110 May 07 16:19	9° 8 56'48	
mamina may al	10109 Jun 10 04:39	0° Ц 0° Ц 45'31	25926100	direct	10110 May 13 05:02	7° 8 29'31	
morning max el	10109 Jun 10 22:55 10109 Jul 02 22:05	0°Щ45′31 0° ©	25°36'09	desc. node morning max el	10110 May 23 04:12 10110 May 24 08:29	13° 8 00'10	24°09'52
morning set	10109 Jul 17 00:44	23°5946'18		morning max ci	10110 Jun 06 05:33	0° П	24 07 32
C	10109 Jul 20 09:24	$0^{\circ}\Omega$			10110 Jun 25 19:08	0°©	
max. Earth dist.	10109 Jul 20 17:21	0° Ω 37'34	1.35938 AU	morning set	10110 Jun 28 22:24	5° © 20'09	
	10100 1 1 26 15 42	120 0 1 1145	0025112	max. Earth dist.	10110 Jul 02 15:17	11° © 50'47	1.38105 AU
superior conj minimum elong	10109 Jul 26 15:42 10109 Jul 26 17:15	12° Ω 11'45 12° Ω 19'30	-0°25'12 0°25'15	superior conj	10110 Jul 09 19:45	25° © 08'41	-0°58'11
asc. node	10109 Jul 29 05:57	17° Ω 26'31	0 23 13	minimum elong	10110 Jul 09 23:34	25°526'56	
evening rise	10109 Aug 03 15:29	28° Ω 30′23		Č	10110 Jul 12 08:10	$0^{\circ}\Omega$	
	10109 Aug 04 09:04	0° m		asc. node	10110 Jul 16 02:55	7° Ω 25'33	
evening max el	10109 Aug 21 08:54	27° m/36'31	20°02'45	evening rise	10110 Jul 18 16:02	12° Ω 27'43	
retrograde	10109 Aug 24 03:16 10109 Aug 31 20:31	0° ჲ 2° ჲ 48'35		evening max el	10110 Jul 28 03:31 10110 Aug 04 03:09	0°Mp 9°Mp17'17	19°03'12
desc. node	10109 Rug 91 20:51 10109 Sep 01 05:50	2° <u>~</u> 48'11		retrograde	10110 Aug 12 23:35	13° m) 41'29	17 03 12
evening set	10109 Sep 02 18:35	2° ₽ 38'54		evening set	10110 Aug 14 20:40	13° m/30'23	
	10109 Sep 09 11:56	30°R, Mp		desc. node	10110 Aug 19 03:03	11° m 52'44	
inferior conj	10109 Sep 11 18:55	28° m 39'24		inferior conj	10110 Aug 23 05:51	9° Mp 16'06	
minimum elong min. Earth dist.	10109 Sep 11 10:30 10109 Sep 13 13:30	28° m 52'01 27° m 35'33	3°08'26 0.55014 AU	minimum elong min. Earth dist.	10110 Aug 23 02:32 10110 Aug 26 03:06	9° Mp 21'50 7° Mp 17'20	1°15'34 0.56285 AU
morning rise	10109 Sep 19 13:30 10109 Sep 20 01:11	24° m) 27'17	0.55014 AO	morning rise	10110 Aug 20 05:00	4° m) 27'54	0.30203 AO
direct	10109 Sep 24 14:29	23° m 42'17		direct	10110 Sep 05 13:54	3° m 20'40	
	10109 Oct 07 19:38	0∘ ⊽		morning max el	10110 Sep 19 18:42	10° m 36'44	25°52'15
morning max el	10109 Oct 08 05:57	0° <u>₽</u> 23'58	24°12'00	1	10110 Oct 04 13:48	0° ⊽	
asc. node	10109 Oct 25 06:16 10109 Oct 28 05:48	24° £ 19'00 0° ™		asc. node morning set	10110 Oct 12 03:10 10110 Oct 17 13:32	13° £ 35'16 24° £ 43'26	
morning set	10109 Nov 02 02:18	9° ™ 59'49		morning sec	10110 Oct 20 00:03	0°M	
superior conj	10109 Nov 08 23:07	24°M55'52	1°39'51	superior conj	10110 Oct 24 09:41	9° ™ 43'14	1°35'00
minimum elong	10109 Nov 08 22:44	24°M53'51	1°40'12	minimum elong	10110 Oct 24 08:20	9° ™ 35'45	1°35'11
max. Earth dist.	10109 Nov 11 04:41	29°M45'47	1.32773 AU	max. Earth dist.	10110 Oct 25 10:32	12°M00'35	1.31902 AU
evening rise	10109 Nov 11 07:20 10109 Nov 16 09:38	0° ⊀ ⁷ 10° ≮ ⁷ 38'52		evening rise	10110 Oct 31 10:05 10110 Nov 02 21:46	24°M.54'09 0°⊀	
evening rise	10109 Nov 16 09:38 10109 Nov 26 17:48	10 x 38 32 0°る		desc. node	10110 Nov 02 21:40 10110 Nov 15 01:02	21° х 57'37	
desc. node	10109 Nov 28 03:55	2° る 24'35			10110 Nov 20 08:21	0°ප	
	10109 Dec 18 06:31	0° ≈ ≈		evening max el	10110 Dec 02 10:42	14° る 30'24	27°22'59
evening max el	10109 Dec 20 02:03	1° ≈ 47'55	27°28'53	retrograde	10110 Dec 16 07:15	21° る 45'45	
retrograde	10110 Jan 02 18:18 10110 Jan 09 17:28	9°≈08'26 6°≈38'02		evening set min. Earth dist.	10110 Dec 23 08:05 10110 Dec 27 01:01	19°る28'04 16°る36'36	0.61746 AU
evening set min. Earth dist.	10110 Jan 09 17.28 10110 Jan 13 12:04	0 ≈38 02 3°≈20'55	0.63718 AU	inferior conj	10110 Dec 27 01:01 10110 Dec 30 01:18	18 3 53636	
inferior conj	10110 Jan 16 03:06	0°≈40'07		minimum elong	10110 Dec 30 07:07	13° る 39'47	
minimum elong	10110 Jan 16 06:20	0° ≈ 31'49	1°39'44	morning rise	10111 Jan 06 08:38	8° る 52'44	
_	10110 Jan 16 18:52	30°₹ ⋜		asc. node	10111 Jan 08 02:49	8° ප 32'37	
asc. node	10110 Jan 21 05:42	26°る11'57		direct	10111 Jan 08 13:35	8°る31'44	17050147
morning rise direct	10110 Jan 22 21:10 10110 Jan 25 07:07	25°る21'30 24°る52'51		morning max el	10111 Jan 15 11:44 10111 Jan 27 13:24	12°る01'53 0°≈	17°50'46
morning max el	10110 Jan 31 19:05	28°පි14'23	17°48'25	morning set	10111 Jan 31 04:58	6° ≈ 32'00	
Č	10110 Feb 02 10:17	0° ≈		Ç			
morning set	10110 Feb 17 08:05	23°≈23'00		superior conj	10111 Feb 11 03:20	25°≈50'04	
	10110 Feb 21 05:06	0°) €		minimum elong	10111 Feb 11 03:16	25°≈49'48	0°00'36
desc. node	10110 Feb 24 03:41	4°) 57'49		behind sun begin behind sun end	10111 Feb 10 18:44 10111 Feb 11 11:49	25°≈13'13 26°≈26'17	

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desc. node	10111 Feb 11 00:31	25° ≈ 37'58		superior conj	10112 Jan 24 05:12	8° ≈ 04'20	0°35'15
	10111 Feb 13 14:17	0°) €		minimum elong	10112 Jan 24 07:42	8° ≈ 15'39	0°35'14
max. Earth dist.	10111 Feb 18 09:27	7° ¥ 56′29	1.43265 AU	desc. node	10112 Jan 28 21:22	16° ≈ 20'53	
evening rise	10111 Feb 25 07:26	18°) 58'08		max. Earth dist.	10112 Jan 31 19:58	21° ≈ 23'13	1.41356 AU
	10111 Mar 04 12:07	0°Υ		evening rise	10112 Feb 05 17:02	29° ≈ 28'08	
	10111 Mar 26 05:35	0°8		evening rise	10112 Feb 06 00:54	0° ∀	
evening max el	10111 Mar 28 22:03	2° 8 54'35	21°44'59		10112 Feb 26 00:54	0° Υ	
asc. node	10111 Mar 28 22:03	8° 8 14'04	21 44 39	evening max el	10112 Pco 20 00:34 10112 Mar 10 14:13	16° Υ 39'52	23°04'08
retrograde	10111 Apr 00 01:07	8° 8 19'22		retrograde	10112 Mar 10 14:13	22° Υ 45'51	23 04 08
evening set	10111 Apr 07 01:39	6° 8 30'36		asc. node	10112 Mar 20 21:40 10112 Mar 22 22:18	22° Y 26'00	
Č	•	0° 8 12'37	2051144		10112 Mar 25 20:18	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	
inferior conj	10111 Apr 16 20:15			evening set	10112 Mar 23 20:18 10112 Mar 31 05:17	20° γ 42′33 14° Υ 17'00	2022100
minimum elong	10111 Apr 16 18:22	0° 8 19'11	2-31-10	inferior conj		14° Υ 17'00 14° Υ 24'36	
	10111 Apr 16 23:52	30°₹ Υ	0.60510.477	minimum elong	10112 Mar 31 03:06		2°22'28
min. Earth dist.	10111 Apr 16 22:47	_	0.68519 AU	min. Earth dist.	10112 Mar 30 19:35	14°Υ′50'34	0.68575 AU
morning rise	10111 Apr 21 23:22	23°Y59'38		morning rise	10112 Apr 05 09:47	8° Y ′09'39	
direct	10111 Apr 26 22:36	21°Υ50'59		direct	10112 Apr 09 19:31	6° Y ′22'24	
morning max el	10111 May 06 19:08	27° Y 40′25	22°39'59	morning max el	10112 Apr 18 10:12	11° Y ′20'44	21°15'12
	10111 May 08 23:44	0°8		desc. node	10112 Apr 25 21:57	20° Y 10′55	
desc. node	10111 May 10 01:05	1° 8 11'57			10112 May 03 00:39	$0^{\circ}S$	
	10111 May 30 20:45	Π °0		morning set	10112 May 19 13:50	24° 8 57'24	
morning set	10111 Jun 09 19:28	15° Ⅱ 45′04			10112 May 22 18:04	Π °0	
max. Earth dist.	10111 Jun 14 12:32	23° Ⅲ 37′25	1.40384 AU	max. Earth dist.	10112 May 26 15:01	6° Ⅱ 16′15	1.42505 AU
	10111 Jun 18 05:08	0 \circ \odot					
				superior conj	10112 Jun 02 22:40	18° Ⅱ 31'38	-1°56'38
superior conj	10111 Jun 22 07:34	7° ॐ 18′28	-1°30'08	minimum elong	10112 Jun 03 04:44	18° Ⅱ 57'38	1°56'35
minimum elong	10111 Jun 22 13:24	7° © 44'54	1°29'49		10112 Jun 09 12:11	0 \circ \odot	
evening rise	10111 Jul 02 07:11	25° © 55'33		evening rise	10112 Jun 14 08:54	8° 5 44'06	
asc. node	10111 Jul 02 23:52	27° 5 014'26		asc. node	10112 Jun 18 20:51	16° 5 348'40	
	10111 Jul 04 11:01	$0^{\circ}\Omega$			10112 Jun 26 23:28	$0^{\circ}\Omega$	
evening max el	10111 Jul 18 07:45	21° Ω 39′26	18°24'49	evening max el	10112 Jun 30 18:43	4° Ω 33'29	18°06'32
retrograde	10111 Jul 25 21:19	25° Ω 27'05		retrograde	10112 Jul 07 12:39	7° Ω 59'46	
evening set	10111 Jul 28 00:27	25° Ω 09'51		evening set	10112 Jul 09 23:40	7° Ω 32'38	
inferior conj	10111 Aug 04 14:12	20° Ω 35'53	0°25'40	inferior conj	10112 Jul 16 19:19	2° Ω 38′20	1°43'06
minimum elong	10111 Aug 04 15:06	20° Ω 34'04	0°25'01	minimum elong	10112 Jul 16 22:01	2° Ω 32'01	1°41'53
desc. node	10111 Aug 06 00:14	19° Ω 26'48		8	10112 Jul 19 15:04	30°Rூ	
min. Earth dist.	10111 Aug 07 22:36	17° Ω 54'51	0.58199 AU	min. Earth dist.	10112 Jul 20 01:28	29° © 36'39	0.60433 AU
morning rise	10111 Aug 12 02:14	15° Ω 11'19		desc. node	10112 Jul 22 21:24	27° © 19'56	
direct	10111 Aug 18 04:05	13° Ω 34'57		morning rise	10112 Jul 23 17:33	26°9346'11	
morning max el	10111 Sep 01 13:03		27°08'48	direct	10112 Jul 30 06:54		
morning max or	10111 Sep 09 03:46	0° m)	27 00 10	ancer	10112 Aug 10 18:12	0°Ω	
	10111 Sep 07 09:40	0° ت		morning max el	10112 Aug 10 10:12	2° Ω 36'35	27°50'28
asc. node	10111 Sep 27 09:36	ა _ 3° ჲ 12'11		morning max cr	10112 Nag 13 14:13	0° my	27 30 20
morning set	10111 Sep 29 00:02 10111 Oct 01 22:29	9° £ 17'38		asc. node	10112 Sep 02 13:24 10112 Sep 14 20:52	23° m/03'20	
morning set	10111 OCt 01 22.29	9 == 1738		morning set	10112 Sep 14 20:32 10112 Sep 15 03:20	23° m/ 36'55	
superior conj	10111 Oct 08 21:28	24° ≏ 31'06	1024122	morning set	=	0° ⊽	
				Fauth diet	10112 Sep 18 03:36		1.31597 AU
minimum elong max. Earth dist.	10111 Oct 08 19:28 10111 Oct 08 19:43	24° £ 19'56		max. Earth dist.	10112 Sep 21 04:35	0-2238/20	1.31397 AU
max. Earth dist.		24° Ω 21'22	1.31507 AU		10112 0 22 00 26	00.0.12110	1000140
	10111 Oct 11 08:41	0°M 23130		superior conj	10112 Sep 22 08:36	9° ₽ 13'19	1°08'48
evening rise	10111 Oct 15 16:17	9°M23'38		minimum elong	10112 Sep 22 06:22	9° 2 00'54	1°08'29
	10111 Oct 26 05:41	0° ⊼ ¹		evening rise	10112 Sep 29 02:02	24° ♀ 00'41	
desc. node	10111 Nov 01 22:11	10° ₹ 52'58	26042110		10112 Oct 01 22:14	0°M,	
evening max el	10111 Nov 14 13:21	26° ₹ 27'39	26°43'10	desc. node	10112 Oct 18 19:23	28°M55'15	
_	10111 Nov 18 19:56	0° る			10112 Oct 19 15:05	0° ⋌ ¹	
retrograde	10111 Nov 28 11:45	3° る 35'53		evening max el	10112 Oct 26 08:04	7° ⋌ ¹33'26	25°31'12
evening set	10111 Dec 05 05:51	1° る 41'08		retrograde	10112 Nov 09 05:31	14° ∡ ³33'31	
	10111 Dec 07 21:21	30°₽,∡7		evening set	10112 Nov 15 05:51	13° ⋌ 10'14 –	
min. Earth dist.	10111 Dec 09 03:28		0.59635 AU	min. Earth dist.	10112 Nov 19 20:23		0.57596 AU
inferior conj	10111 Dec 12 07:51	26° ₹ 33'12		inferior conj	10112 Nov 22 19:21	8° ∡ ′30′22	
minimum elong	10111 Dec 12 15:33	26° ∡ 17'54	4°05'40	minimum elong	10112 Nov 23 02:18	8° ∡ 18′22	5°08'36
morning rise	10111 Dec 20 03:54	21° ≯ 53'56		morning rise	10112 Dec 01 01:04	4° ∡ °13′28	
direct	10111 Dec 22 07:19	21° х ³37′07		direct	10112 Dec 03 08:16	3° ∡ ′57′20	
asc. node	10111 Dec 25 23:53	22° ∡ *29′39		asc. node	10112 Dec 11 20:55	7° ∡ ¹56'11	
morning max el	10111 Dec 29 23:56	25° ₹ 25'15	18°12'17	morning max el	10112 Dec 12 03:48	8° ∡ 12'33	18°54'47
	10112 Jan 02 20:36	5°0			10112 Dec 26 05:26	5°0	
morning set	10112 Jan 14 16:54	20° る 22'58		morning set	10112 Dec 28 15:05	4° る 40'59	
	10112 Jan 19 19:40	0° ≈					
				superior conj	10113 Jan 06 02:09	21° る 11'37	1°03'20

minimum elong	10113 Jan 06 05:18	21° る 26'38	1°03'19	minimum elong	10113 Dec 20 16:03	5° る 11'57	1°23'14
minimum ciong	10113 Jan 10 19:35	0°≈	1 03 17	max. Earth dist.	10113 Dec 26 09:23	16° ප 18'39	1.37022 AU
max. Earth dist.	10113 Jan 13 02:45	4° ≈ 08'10	1.39193 AU	evening rise	10113 Dec 30 03:31	23° ට 13'42	
desc. node	10113 Jan 14 18:16	7° ≈ 02'15		desc. node	10114 Jan 01 15:12	27° ප 38'24	
evening rise	10113 Jan 17 00:04	10° ≈ 54'32			10114 Jan 02 23:53	0° ≈	
	10113 Jan 28 20:51	0° ∀			10114 Jan 22 15:00	0° ∀	
	10113 Feb 20 16:52	0° Υ		evening max el	10114 Feb 03 17:29	14° 升 17′28	25°37'51
evening max el	10113 Feb 21 04:10		24°24'03	retrograde	10114 Feb 16 01:35	21°) 22′49	
retrograde	10113 Mar 04 13:57	7° Y ′08'53		evening set	10114 Feb 22 00:32	18° ¥ 55'47	
asc. node	10113 Mar 09 19:30	5° Y ′03′10		asc. node	10114 Feb 24 16:41	16° ∺ 14'28	
evening set	10113 Mar 10 00:36	4° Υ 52'30		min. Earth dist.	10114 Feb 26 08:26	14°) 13′52	
	10113 Mar 14 08:12	30°₽)		inferior conj	10114 Feb 27 17:47	12° ∺ 27'35	0°58'32
min. Earth dist.	10113 Mar 14 15:33	29°) (35'33	0.68204 AU	minimum elong	10114 Feb 27 16:24	12°) € 32'00	0°58'10
inferior conj	10113 Mar 15 13:05	28°) €23'17	1°45'21	morning rise	10114 Mar 05 08:45	6° ¥ 36′10	
minimum elong	10113 Mar 15 11:02	28°\(\frac{1}{30}\)'10 22°\(\frac{1}{23}\)'02	1°44'43	direct	10114 Mar 08 17:44	5° ∺ 30'52 9° ∺ 16'04	19°03'12
morning rise direct	10113 Mar 20 21:34 10113 Mar 24 18:24	20° H 57'32		morning max el greatest brilliancy	10114 Mar 15 14:41 10114 Mar 29 00:43	27° H 14'24	-0.7m
morning max el	10113 Mai 24 18.24 10113 Apr 01 08:29	25° H 13'01	20°01'49	desc. node	10114 Mar 30 15:34	27 X 14 24 29° X 41'58	-0.7111
morning max cr	10113 Apr 05 14:13	25 χ 1501	20 01 49	desc. Hode	10114 Mar 30 19:34 10114 Mar 30 20:18	29 γ (41 36	
desc. node	10113 Apr 03 14:13	9° Υ '44'02		morning set	10114 Mar 30 20:18	12° Υ 09'56	
dese. Hode	10113 Apr 26 08:45	0°8		morning sec	10114 Apr 19 04:50	0°8	
morning set	10113 Apr 28 14:02	3° 8 24'35		max. Earth dist.	10114 Apr 21 17:27		1.45277 AU
max. Earth dist.	10113 May 09 01:11	19° 8 47'54	1.44201 AU		r		
	Ž			superior conj	10114 Apr 24 06:20	7° 8 57'11	-2°08'46
superior conj	10113 May 14 13:42	28° 8 42'12	-2°11'37	minimum elong	10114 Apr 24 01:32	7° 8 38'17	2°08'50
minimum elong	10113 May 14 16:07	28° 8 52'05	2°11'55		10114 May 08 00:06	$\Pi^{\circ}0$	
	10113 May 15 08:44	Π °0		evening rise	10114 May 09 01:32	1° Ⅱ 43'49	
evening rise	10113 May 27 16:28	20° Ⅱ 43′03		asc. node	10114 May 23 14:57	24° Ⅱ 49'45	
	10113 Jun 02 02:35	0			10114 May 27 15:16	0_{\circ} වෙ	
asc. node	10113 Jun 05 17:52	6°502'53		evening max el	10114 May 28 21:19	1° © 19'58	18°26'24
evening max el	10113 Jun 14 08:18	17°549'51	18°07'18	retrograde	10114 Jun 04 07:52	4°5548'20	
retrograde	10113 Jun 20 17:39	21°5510'09		evening set	10114 Jun 07 10:24	3°954'35	
evening set	10113 Jun 23 12:28	20°530'30	2°35'00	::	10114 Jun 11 20:02 10114 Jun 13 05:07	30°RⅡ 28°Ⅱ24'01	3°05'11
inferior conj minimum elong	10113 Jun 29 17:40 10113 Jun 29 20:18	15° © 17'08 15° © 10'05	2°33'57	inferior conj minimum elong	10114 Jun 13 05:07 10114 Jun 13 06:48	28° I I 19'02	3°04'30
min. Earth dist.	10113 Jul 02 13:13	12° © 18'09	0.62671 AU	min. Earth dist.	10114 Jun 15 10:23	25° I 47'01	0.64683 AU
morning rise	10113 Jul 06 02:19	9° © 07'47	0.02071110	morning rise	10114 Jun 19 02:11	22° I 106'00	0.01005110
desc. node	10113 Jul 09 18:31	7° © 08'52		direct	10114 Jun 25 16:55	19° Ⅱ 23'57	
direct	10113 Jul 12 19:43	6° ॐ 38'47		desc. node	10114 Jun 26 15:36	19° Ⅱ 26'57	
morning max el	10113 Jul 26 21:07	14° 5 341'08	27°53'42	morning max el	10114 Jul 09 07:18	27° II 22'13	27°21'17
	10113 Aug 08 07:09	$0^{\circ}\Omega$			10114 Jul 11 18:46	0ංම	
	10113 Aug 26 05:36	0° ™			10114 Aug 02 00:01	$0^{\circ}\Omega$	
morning set	10113 Aug 30 02:02	7° m 35'47		morning set	10114 Aug 13 15:56	21° Ω 06′39	
asc. node	10113 Sep 01 17:42	13° m 03'42			10114 Aug 18 02:13	0° m)	
max. Earth dist.	10113 Sep 04 09:25	18° m 41'43	1.32178 AU	max. Earth dist.	10114 Aug 18 06:22	-•	1.33258 AU
				asc. node	10114 Aug 19 14:33	3° Mp 08'23	
superior conj	10113 Sep 06 17:17	23° Mp 44'20	0°48'01	·	10114 4 21 21 27	70 m. 57120	000012.4
minimum elong	10113 Sep 06 15:19	23°₱33'36 0° <u>₽</u>	0°47'33	superior conj minimum elong	10114 Aug 21 21:25	7° Mp 57'39 7° Mp 51'48	0°22'34 0°22'08
avanina riaa	10113 Sep 09 13:53	8° £ 39'40		-	10114 Aug 21 20:19	-•	0-22-08
evening rise	10113 Sep 13 13:25 10113 Sep 24 11:56	8° 32 39′40 0° M		evening rise	10114 Aug 29 00:32 10114 Sep 01 06:30	23° ™ 14'14 0° ≏	
desc. node	10113 Sep 24 11:30 10113 Oct 05 16:35	15°M44'06		evening max el	10114 Sep 01 00:30	0 == 28° ⊆ 03'42	22°16'//3
evening max el	10113 Oct 03 10:53		23°56'54	evening max er	10114 Sep 17 07:47	0° M	22 10 43
retrograde	10113 Oct 21 10:47	24°M44'45	25 505.	desc. node	10114 Sep 22 13:49	0°ML52'01	
evening set	10113 Oct 26 05:17	23°M54'59		retrograde	10114 Oct 02 04:26	4°ML28'04	
min. Earth dist.	10113 Nov 01 06:26	20°M57'23	0.55900 AU	evening set	10114 Oct 05 11:07	4°ML04'16	
inferior conj	10113 Nov 03 10:24	19° ™ 38'47	-5°42'44	min. Earth dist.	10114 Oct 13 13:48	0°M29'37	0.54840 AU
minimum elong	10113 Nov 03 11:56	19° M 36'27	5°42'22	inferior conj	10114 Oct 14 08:30	0°ML03'18	-5°25'34
morning rise	10113 Nov 11 20:35	15°M42'09		minimum elong	10114 Oct 14 02:01	0°M12'26	5°24'29
direct	10113 Nov 14 13:56	15°M23'15			10114 Oct 14 10:51	30° ₹ Ω	
morning max el	10113 Nov 24 19:50	20°M14'14	19°59'52	morning rise	10114 Oct 22 18:34	26° ≙ 16'11	
asc. node	10113 Nov 28 17:54	24°M38'08		direct	10114 Oct 26 02:54	25° £ 51'09	
	10113 Dec 02 11:21	0° √			10114 Nov 05 07:25	0°M	0.1.00=:0.5
morning set	10113 Dec 12 20:05	19° ∡ 16'17		morning max el	10114 Nov 06 22:22	1°M25'15	21°27'03
	10113 Dec 18 02:08	0°₹		asc. node	10114 Nov 15 14:51	12°M19'20	
superior coni	10113 Dec 20 12:24	4° る 58'52	1°23'03	morning set	10114 Nov 25 06:37	0° ᡘ 4° ᡘ 01'13	
superior conj	10113 Dec 20 13:26	4 03832	1 23 03	morning set	10114 Nov 27 05:19	4 X 01 13	

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morning max el	10116 Sep 30 01:29	22° Mp 02'45	24°56'33	direct	10117 Aug 28 08:57	24° Ω 55'59	
	10116 Oct 07 01:35	0∘ ⊽			10117 Sep 08 23:54	0° m)	
asc. node	10116 Oct 19 08:41	19° ≏ 47'07		morning max el	10117 Sep 11 15:58	2° Mg 23'06	26°28'37
	10116 Oct 24 11:30	0°M₊			10117 Oct 01 08:57	0∘ ಹ	
morning set	10116 Oct 26 04:26	3° ™ 36′24		asc. node	10117 Oct 06 05:33	9° ₾ 13'02	
				morning set	10117 Oct 10 14:52	18° ≏ 16'24	
superior conj	10116 Nov 02 00:33	18° ™ 33'07	1°38'31		10117 Oct 15 23:37	0° M	
minimum elong	10116 Nov 01 23:44	18°M28'36	1°38'48				
max. Earth dist.	10116 Nov 03 17:20	22°M16'14	1.32340 AU	superior conj	10117 Oct 17 11:50	3° M 21′08	1°31'15
	10116 Nov 07 07:52	0° ∡ 7		minimum elong	10117 Oct 17 10:09	3° M ₊11'49	1°31'18
evening rise	10116 Nov 09 06:09	4° ∡ ¹00'37		max. Earth dist.	10117 Oct 18 01:10	4°M35'12	1.31678 AU
desc. node	10116 Nov 22 06:21	28° ∡ ¹06'45		evening rise	10117 Oct 24 09:19	18° M 22'49	
	10116 Nov 23 10:07	0°₹			10117 Oct 30 03:35	0° ∡ ¹	
evening max el	10116 Dec 12 07:03	24° る 37'24	27°30'33	desc. node	10117 Nov 09 03:28	17° ∡ ¹25'10	
_	10116 Dec 19 08:51	0° ≈			10117 Nov 18 03:00	0° ට	
retrograde	10116 Dec 26 01:51	1° ≈ 56'10		evening max el	10117 Nov 24 13:39	7° る 02'18	27°10'18
C	10117 Jan 01 08:08	30°R₹		retrograde	10117 Dec 08 10:59	14° る 13'46	
evening set	10117 Jan 02 02:19	29° පි 30'18		evening set	10117 Dec 15 10:12	12° る 04'55	
min. Earth dist.	10117 Jan 05 19:49		0.62902 AU	min. Earth dist.	10117 Dec 19 04:15		0.60858 AU
inferior conj	10117 Jan 08 15:03	23° ප් 41'11		inferior conj	10117 Dec 22 07:00	6° ප 41'15	
minimum elong	10117 Jan 08 19:23	23° る 30'37		minimum elong	10117 Dec 22 07:00	6° る 26'41	
asc. node	10117 Jan 15 08:11	18°る35'48	2 10 00	morning rise	10117 Dec 22 19:47 10117 Dec 29 19:53	1° る 49'19	3 23 31
morning rise	10117 Jan 15 08:11	18°る29'43		direct	10117 Dec 29 19:33 10117 Dec 31 23:48	1°る30'24	
direct	10117 Jan 17 14:40	18° る 04'47		asc. node	10117 Dec 31 23:48 10118 Jan 02 05:15	1°る36'42	
		18 30447 21° る 29'13	17°47'06		10118 Jan 08 04:35		17°57'28
morning max el	10117 Jan 24 13:30		1/4/00	morning max el			1/3/28
. ,	10117 Jan 31 01:49	0° ≈		morning set	10118 Jan 23 19:31	29° る 41'38	
morning set	10117 Feb 09 15:35	16°≈12'43			10118 Jan 23 23:31	0° ≈	
1 1	10117 Feb 17 14:52	0°) {			10110 F 1 02 02 12	1001440	001 5100
desc. node	10117 Feb 18 06:01	1°){ 04'14		superior conj	10118 Feb 03 02:13	18° ≈ 14'48	0°15'22
				minimum elong	10118 Feb 03 03:31	18° ≈ 20'29	0°15'28
superior conj	10117 Feb 21 13:38	6°) 38′12		behind sun begin	10118 Feb 03 01:28	18° ≈ 11'34	
minimum elong	10117 Feb 21 11:07	6°) 27'46		behind sun end	10118 Feb 03 05:33	18° ≈ 29'24	
max. Earth dist.	10117 Feb 28 01:39	17°) 14'44	1.44169 AU	desc. node	10118 Feb 05 02:52	21° ≈ 46′00	
	10117 Mar 08 04:19	0° Υ			10118 Feb 09 23:40	0° ∀	
evening rise	10117 Mar 08 14:39	0° Ƴ 39'52		max. Earth dist.	10118 Feb 10 15:25	1° ∺ 05'16	1.42504 AU
	10117 Mar 28 11:52	9° 8		evening rise	10118 Feb 16 13:25	10°) 39′45	
evening max el	10117 Apr 07 11:50	12° 8 21'46	21°02'12		10118 Mar 01 06:10	0° Y	
asc. node	10117 Apr 13 06:26	16° 8 44'13		evening max el	10118 Mar 21 06:14	26° Ƴ 05'54	22°18'07
retrograde	10117 Apr 16 00:25	17° 8 21'28			10118 Mar 25 20:29	9° 8	
evening set	10117 Apr 20 05:36	15° 8 41'32		retrograde	10118 Mar 30 21:35	1° 8 48'04	
inferior conj	10117 Apr 25 12:26	9° 8 29'39	3°03'48	asc. node	10118 Mar 31 03:36	1° 8 47'46	
minimum elong	10117 Apr 25 10:54	9° 8 34'56	3°03'19		10118 Apr 04 10:09	30° ŖƳ	
min. Earth dist.	10117 Apr 25 22:23	8° 8 55'08	0.68303 AU	evening set	10118 Apr 04 13:38	29° Y 52'50	
morning rise	10117 Apr 30 15:59	3° 8 14'08		inferior conj	10118 Apr 09 21:19	23° Y 31'21	2°40'44
direct	10117 May 05 23:10	0° 8 54'01		minimum elong	10118 Apr 09 19:15	23° Y 38'33	2°40'08
morning max el	10117 May 16 13:19	7° 8 12'42	23°31'21	min. Earth dist.	10118 Apr 09 18:31	23° Y '41'04	0.68603 AU
desc. node	10117 May 17 06:31	7° 8 56'54		morning rise	10118 Apr 15 00:43	17° Ƴ 20'52	
	10117 Jun 03 07:01	$\Pi^{\circ}0$		direct	10118 Apr 19 18:13	15° Ƴ 21'11	
morning set	10117 Jun 20 14:51	27° Ⅱ 14′04		morning max el	10118 Apr 29 01:28	20° Ƴ 47'42	22°02'54
Ü	10117 Jun 22 05:51	0ಂತಾ		desc. node	10118 May 04 03:25	26° Ƴ 30'59	
max. Earth dist.	10117 Jun 24 14:03	4° © 03'17	1.39081 AU		10118 May 06 21:24	0°8	
max. Darm dist.	1011/ 3411 21 11.03	. 30317	1.57001 110		10118 May 27 12:34	0°II	
superior conj	10117 Jul 02 03:44	17° © 44'51	-1°12'05	morning set	10118 Jun 01 00:30	7° Ⅱ 08'01	
minimum elong	10117 Jul 02 08:30	18° © 07'09		max. Earth dist.	10118 Jun 06 13:44	16° Ⅱ 14'23	1.41329 AU
minimum clong	10117 Jul 02 08:30	0°Ω	1 114/	max. Latin dist.	10116 Juli 00 13.44	10 11423	1.41329 AU
asc. node	10117 Jul 10 05:20	3° Ω 11'42		superior conj	10118 Jun 14 07:22	29° Ⅲ 32'27	104221
		5° Ω 34'32				0°900'13	
evening rise	10117 Jul 11 10:45			minimum elong	10118 Jun 14 13:38		1 42 07
avanie 1	10117 Jul 25 23:04	0°M)	10044122	arramin = -i	10118 Jun 14 13:35	0°95	
evening max el	10117 Jul 27 15:05	1° Mp 48'14	18°44'22	evening rise	10118 Jun 24 20:47	18°547'49	
retrograde	10117 Aug 04 20:46	5° Mp 54'46		asc. node	10118 Jun 27 02:17	22°955'27	
evening set	10117 Aug 06 20:11	5° Mp 41'27			10118 Jul 01 00:06	0°N	1001 422
desc. node	10117 Aug 13 05:28	2° Tp 30'33	0020125	evening max el	10118 Jul 10 22:50		18°14'33
inferior conj	10117 Aug 14 21:11	1° Mp 19'00		retrograde	10118 Jul 18 02:39	18° Ω 02'10	
minimum elong	10117 Aug 14 19:55	1° m/21'18	0°30'21	evening set	10118 Jul 20 09:04	17° Ω 41'04	100
	10117 Aug 16 15:55	30°R€		inferior conj	10118 Jul 27 14:44	12° Ω 57'58	1°01'46
min. Earth dist.	10117 Aug 18 01:04		0.57041 AU	minimum elong	10118 Jul 27 16:41	12° Q 53'45	1°00'45
morning rise	10117 Aug 22 16:17	26° Ω 15'07		min. Earth dist.	10118 Jul 30 23:20	10° Ω 05'31	0.59131 AU

desc. node	10118 Jul 31 02:39	9° Ω 58'47		min. Earth dist.	10119 Jul 13 06:04	22°514'00	0.61399 AU
morning rise	10118 Aug 03 21:01	7° Ω 20′21		morning rise	10119 Jul 16 20:00	19° © 16'22	
direct	10118 Aug 10 04:26	5° Ω 31'28		desc. node	10119 Jul 17 23:48	18° © 32'54	
morning max el	10118 Aug 24 13:23	13° Ω 19'31	27°31'16	direct	10119 Jul 23 11:46	16° © 59'37	
	10118 Sep 06 19:44	0° m		morning max el	10119 Aug 06 17:32	25° © 00'21	27°56'28
asc. node	10118 Sep 23 02:25	28° m 56'51			10119 Aug 11 07:12	0 $^{\circ}$ Ω	
	10118 Sep 23 14:41	0∘ ⊽			10119 Aug 31 06:15	0° m)	
morning set	10118 Sep 24 22:18	2° ≏ 44'54		morning set	10119 Sep 09 00:50	16° Mp 56'35	
				asc. node	10119 Sep 09 23:15	18° m 52'41	
superior conj	10118 Oct 01 23:31	18° ≏ 06'57	1°18'30	max. Earth dist.	10119 Sep 14 18:26	29° m 08'51	1.31780 AU
minimum elong	10118 Oct 01 21:21	17° £ 54'55	1°18'18		10119 Sep 15 03:48	0∘ ⊽	
max. Earth dist.	10118 Oct 01 10:50	16° £ 56′26	1.31490 AU				
	10118 Oct 07 08:37	0°M₊		superior conj	10119 Sep 16 09:51	2° ≏ 45'09	1°00'34
evening rise	10118 Oct 08 17:16	2°M56'01		minimum elong	10119 Sep 16 07:39	2° ≏ 33'04	1°00'11
	10118 Oct 23 01:48	0° ⊼		evening rise	10119 Sep 23 03:56	17° ≏ 34'26	
desc. node	10118 Oct 27 00:37	5° ₹ 59'52			10119 Sep 29 05:00	0° M	
evening max el	10118 Nov 06 12:55	18° ₹ 36'51	26°15'59	desc. node	10119 Oct 13 21:48	23°M34'05	
retrograde	10118 Nov 20 10:54	25° ≮ 41'32		evening max el	10119 Oct 19 04:03	29°M21'39	24°52'54
evening set	10118 Nov 26 23:13	23° ₹ ¹59'06			10119 Oct 19 20:27	0° ∡ ¹	
min. Earth dist.	10118 Dec 01 02:01	21° 尽 24′23	0.58748 AU	retrograde	10119 Nov 01 23:58	6° ≯ 18'40	
inferior conj	10118 Dec 04 05:42	19° 渘 03'34	-4°36'57	evening set	10119 Nov 07 12:54	5° ₮ 09'42	
minimum elong	10118 Dec 04 13:33	18° ≯ 48'54	4°34'32	min. Earth dist.	10119 Nov 12 15:36	2° ₹ 25'40	0.56807 AU
morning rise	10118 Dec 12 06:26	14° ∡ ³34′02		inferior conj	10119 Nov 15 08:28	0° ∡ ¹40′25	-5°28'57
direct	10118 Dec 14 10:53	14° ∡ 17'50		minimum elong	10119 Nov 15 13:44	0° ∡ 31'49	5°27'56
asc. node	10118 Dec 20 02:19	16° ₹ 12'54			10119 Nov 16 09:29	30°RM₊	
morning max el	10118 Dec 22 13:41	18° ∡ 15'54	18°27'46	morning rise	10119 Nov 23 16:50	26°ML33'07	
	10118 Dec 31 01:32	ರ∘ರ		direct	10119 Nov 26 03:22	26°M16'24	
morning set	10119 Jan 07 12:14	13° る 45'08			10119 Dec 04 17:01	0° ∡ ¹	
-	10119 Jan 16 01:16	0° ≈		morning max el	10119 Dec 05 13:01	0° ∡ ¹45'49	19°19'46
				asc. node	10119 Dec 06 23:21	2° ҂ 13′59	
superior conj	10119 Jan 16 12:46	0°≈53'14	0°48'12	morning set	10119 Dec 22 13:41	28° ∡ 11'50	
minimum elong	10119 Jan 16 15:45	1°≈06'58	0°48'09	C	10119 Dec 23 11:20	0°ె	
desc. node	10119 Jan 22 23:43	12° ≈ 28'32					
max. Earth dist.	10119 Jan 24 00:14	14° ≈ 14'49	1.40447 AU	superior conj	10119 Dec 30 16:26	14° る 19'51	1°12'40
evening rise	10119 Jan 28 07:50	21° ≈ 32'43		minimum elong	10119 Dec 30 19:28	14° る 34'35	1°12'45
C	10119 Feb 02 13:08	0° ∀		max. Earth dist.	10120 Jan 06 06:02	26° る 42'26	1.38247 AU
	10119 Feb 23 08:24	0 ° $\mathbf{\Upsilon}$			10120 Jan 08 01:54	0° ≈	
evening max el	10119 Mar 03 21:03	9° Ƴ 51'57	23°38'25	evening rise	10120 Jan 09 23:55	3° ≈ 23'01	
retrograde	10119 Mar 14 16:03	16° Ƴ 14'02		desc. node	10120 Jan 09 20:37	3° ≈ 08'36	
asc. node	10119 Mar 18 00:47	15° Ƴ 20′03			10120 Jan 26 15:57	0° ∀	
evening set	10119 Mar 19 19:44	14° Ƴ 04'40		evening max el	10120 Feb 14 10:26	23°) 41′04	24°56'38
min. Earth dist.	10119 Mar 24 15:09	8° Ƴ 27'47	0.68465 AU	•	10120 Feb 23 05:38	0 ° Υ	
inferior conj	10119 Mar 25 06:01	7° Ƴ 36'52	2°08'14	retrograde	10120 Feb 26 06:36	0° Ƴ 34'28	
minimum elong	10119 Mar 25 03:50	7° Ƴ 44'23	2°07'33	Č	10120 Feb 29 02:51	30° ₹ ₩	
morning rise	10119 Mar 30 11:55	1° Y 32'34		evening set	10120 Mar 02 22:26	28° ₩ 13'06	
	10119 Apr 02 16:39	30° ₹ ₩		asc. node	10120 Mar 03 21:59	27° ₩ 18'57	
direct	10119 Apr 03 15:59	29°) 54'53		min. Earth dist.	10120 Mar 07 10:11	23° ₩ 10'57	0.67914 AU
	10119 Apr 04 15:49	0° Υ		inferior conj	10120 Mar 08 12:46	21°) 43′24	1°26'38
morning max el	10119 Apr 11 19:32	4° Ƴ 33'45	20°42'27	minimum elong	10120 Mar 08 10:56	21°) 49'27	1°26'04
desc. node	10119 Apr 21 00:16	15° Ƴ 45'55		morning rise	10120 Mar 13 23:42	15°) 46′34	
	10119 Apr 30 21:58	0°8		direct	10120 Mar 17 15:14	14° ₩ 30'07	
morning set	10119 May 11 09:19	15° 8 56'14		morning max el	10120 Mar 24 21:17	18° ¥ 31'37	19°34'58
max. Earth dist.	10119 May 19 19:43	29° 8 17'58	1.43290 AU	C	10120 Apr 03 01:38	0 ° Υ	
	10119 May 20 06:06	0° I I		greatest brilliancy	10120 Apr 06 13:50	5° Ƴ 04'17	-0.7m
	,			desc. node	10120 Apr 06 21:05	5° Ƴ 30'57	
superior conj	10119 May 26 12:26	10° Ⅱ 19'14	-2°04'48	morning set	10120 Apr 19 07:55	24° Ƴ 22'31	
minimum elong	10119 May 26 17:31	10° Ⅱ 40'35	2°04'55	C	10120 Apr 22 23:17	0°B	
· ·	10119 Jun 06 21:57	0°€		max. Earth dist.	10120 May 01 08:08	13° 8 05'48	1.44740 AU
evening rise	10119 Jun 07 15:26	1° © 17'13			,		
asc. node	10119 Jun 13 23:16	12° © 22'14		superior conj	10120 May 05 17:15	20° 8 04'22	-2°12'52
evening max el	10119 Jun 24 11:17	27°\$29'50	18°04'29	minimum elong	10120 May 05 16:49	20° 8 02'37	
Ç	10119 Jun 27 17:53	$0^{\circ}\Omega$		٥	10120 May 11 20:06	0°II	
retrograde	10119 Jul 01 00:29	0° Ω 52'09		evening rise	10120 May 19 13:54	12° Ⅱ 52'18	
evening set	10119 Jul 03 14:42	0° Ω 20'05		5	10120 May 29 22:10	0°ಅ	
C	10119 Jul 04 08:15	30°Rூ		asc. node	10120 May 30 20:19	1°526'09	
inferior conj	10119 Jul 10 03:44	25°517'26	2°08'02	evening max el	10120 Jun 07 01:01	10°953'23	18°13'13
minimum elong	10119 Jul 10 06:34	25°5010'22		retrograde	10120 Jun 13 09:50	14°9515'28	
				J			

page 12

10122 Apr 28 06:42

 $0^{\circ}\Pi$

10121 May 17 17:25

asc. node

19°**Ⅲ**59'22

1-	10122 M 04 14-24	7° Ⅱ 51'24			10122 M 12 22-14	0° Ƴ	
asc. node	10122 May 04 14:34	7°Щ31°24 8°Щ08'09	10022145		10123 Mar 12 23:14	0° γ 12° Υ 33'26	
evening max el	10122 May 04 21:08		19°23'45	evening rise	10123 Mar 21 01:29		
retrograde	10122 May 11 23:47	12° Ⅱ 09'11			10123 Apr 01 14:47	0°8	20022126
evening set	10122 May 15 14:06	10° Ⅱ 53'40		evening max el	10123 Apr 17 23:46	21° 8 49'50	20°22'36
inferior conj	10122 May 20 23:59	5° Ⅱ 01'29	3°18'56	asc. node	10123 Apr 21 11:45	24° 8 49'59	
minimum elong	10122 May 20 23:58	5° Ⅱ 01'33	3°18'32	retrograde	10123 Apr 25 22:30	26° 8 26'39	
min. Earth dist.	10122 May 22 07:47	3° Ⅱ 17'21	0.66901 AU	evening set	10123 Apr 29 21:57	24° 8 55'33	
	10122 May 25 01:29	30° ₹ 8		inferior conj	10123 May 05 05:10	18° 8 50'04	3°12'32
morning rise	10122 May 26 09:26	28° 8 41'24		minimum elong	10123 May 05 04:07	18° 8 53'41	3°12'08
direct	10122 Jun 01 12:11	25° 8 59'58		min. Earth dist.	10123 May 05 22:46	17° 8 49'50	0.67917 AU
desc. node	10122 Jun 07 15:01	28° 8 06'36		morning rise	10123 May 10 10:02	12° 8 32'11	
	10122 Jun 10 05:10	$\Pi^{\circ}0$		direct	10123 May 16 00:39	10° 8 02'31	
morning max el	10122 Jun 13 23:01	3° Ⅱ 26'54	25°48'11	desc. node	10123 May 25 11:57	15° 8 02'06	
	10122 Jul 04 03:51	0°99		morning max el	10123 May 27 08:38	16° 8 49'55	24°23'06
morning set	10122 Jul 20 00:50	26°538'16		-	10123 Jun 07 06:56	$\Pi^{\circ}0$	
	10122 Jul 21 20:25	$0^{\circ}\Omega$			10123 Jun 27 03:45	0ංම	
max. Earth dist.	10122 Jul 23 18:56	3° Ω 39'45	1.35640 AU	morning set	10123 Jul 02 01:38	8°520'59	
				max. Earth dist.	10123 Jul 05 17:15	14°5649'02	1.37767 AU
superior conj	10122 Jul 29 11:57	14° Ω 53'04	-0°20'17				
minimum elong	10122 Jul 29 13:10	14° Ω 59'17		superior conj	10123 Jul 12 17:56	27°955'36	-0°53'10
asc. node	10122 Jul 31 13:50	19° Ω 06'34	0 20 23	minimum elong	10123 Jul 12 21:24	28°S12'19	
asc. node	10122 Jul 31 13:30	0° m)		minimum ciong	10123 Jul 12 21:24 10123 Jul 13 19:41	0°Ω	0 32 37
ovanina rigo	•	1° m y04'19		asc. node	10123 Jul 13 19:41 10123 Jul 18 10:45	9° Ω 06'29	
evening rise	10122 Aug 06 09:13	0° ⊽					
	10122 Aug 23 18:32		20012122	evening rise	10123 Jul 21 10:47	15° Ω 04'44	
evening max el	10122 Aug 24 08:46	0° 2 36'16	20°13'22		10123 Jul 29 07:55	0° m)	10010145
desc. node	10122 Sep 03 13:31	5° ≏ 55'22		evening max el	10123 Aug 07 01:08	12° m 10'06	19°10'45
retrograde	10122 Sep 04 02:40	5° ≏ 56'10		retrograde	10123 Aug 16 03:06	16° m 40'55	
evening set	10122 Sep 06 01:52	5° ≏ 46'13		evening set	10123 Aug 17 23:38	16° m 30'23	
inferior conj	10122 Sep 15 03:32	1° ≏ 47'53		desc. node	10123 Aug 21 10:43	15° m 20'06	
minimum elong	10122 Sep 14 18:34	2° ഫ 01'08	3°25'04	inferior conj	10123 Aug 26 11:34	12° m) 18'58	
min. Earth dist.	10122 Sep 16 16:54	0° ჲ 52'39	0.54899 AU	minimum elong	10123 Aug 26 07:26	12° Mp 25'54	1°32'19
	10122 Sep 18 05:41	30°R, Mp		min. Earth dist.	10123 Aug 29 05:54	10° Mp 27'40	0.56046 AU
morning rise	10122 Sep 23 10:23	27° Mp 40'06		morning rise	10123 Sep 03 12:17	7° m ,36′18	
direct	10122 Sep 27 20:40	26° M 57'46		direct	10123 Sep 08 18:03	6° Mg 32′48	
	10122 Oct 06 22:37	0∘ ⊽		morning max el	10123 Sep 22 21:38	13° m 44'46	25°38'28
morning max el	10122 Oct 11 09:24	3° ≏ 33'42	23°56'06		10123 Oct 05 17:01	0∘ ত	
asc. node	10122 Oct 27 14:13	26° ≙ 08′25		asc. node	10123 Oct 14 11:04	15° ≙ 20'54	
	10122 Oct 29 15:49	0° M .		morning set	10123 Oct 20 06:19	27° ≏ 12'43	
morning set	10122 Nov 04 18:57	12°M28'05		C	10123 Oct 21 13:24	0° M	
C							
superior conj	10122 Nov 11 16:09	27° M 24'22	1°40'05	superior conj	10123 Oct 27 02:21	12° M -11'21	1°36'08
minimum elong	10122 Nov 11 15:57	27°M23'17	1°40'25	minimum elong	10123 Oct 27 01:08	12°ML04'36	1°36'19
8	10122 Nov 12 20:55	0° ∡ 7		max. Earth dist.	10123 Oct 28 07:14	14°ML50'38	1.31998 AU
max. Earth dist.	10122 Nov 14 02:16	2° × 737'32	1.32939 AU	evening rise	10123 Nov 03 03:56	27°M26'02	1.51770110
evening rise	10122 Nov 19 04:35	13°×7'13'14	1.52/5/110	evening rise	10123 Nov 04 09:50	0°×7	
evening rise	10122 Nov 19 04:33	0° 궁		desc. node	10123 Nov 17 08:45	23° х 44'04	
desc. node	10122 Nov 28 02:20 10122 Nov 30 11:39	0 0 4° る 06'12		desc. Hode	10123 Nov 21 09:38	23 × 44 04	
desc. node		4 000 12 0°≈		avanina may al	10123 Nov 21 09:38 10123 Dec 05 11:11	0 る 17° る 19'54	27926102
	10122 Dec 18 17:57	0 🗢		evening max el			
evening max el	10122 D 22 01-52	4021116	27927102	•			27 20 03
retrograde	10122 Dec 23 01:52	4° ≈ 31'16	27°27'02	retrograde	10123 Dec 19 07:30	24° る 36'33	27 20 03
•	10123 Jan 05 17:16	11° ≈ 52'45	27°27'02	retrograde evening set	10123 Dec 19 07:30 10123 Dec 26 08:25	24°පි36'33 22°පි16'23	
evening set	10123 Jan 05 17:16 10123 Jan 12 15:40	11°≈52'45 9°≈21'07		retrograde evening set min. Earth dist.	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17	24° ට 36'33 22° ට 16'23 19° ට 21'35	0.62048 AU
evening set min. Earth dist.	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42	11°≈52'45 9°≈21'07 5°≈59'44	0.63988 AU	retrograde evening set min. Earth dist. inferior conj	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26	24° ට 36'33 22° ට 16'23 19° ට 21'35 16° ට 37'24	0.62048 AU -2°43'49
evening set min. Earth dist. inferior conj	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52	24° ට 36'33 22° ට 16'23 19° ට 21'35 16° ට 37'24 16° ට 24'50	0.62048 AU -2°43'49
evening set min. Earth dist.	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47	24° ට 36'33 22° ට 16'23 19° ට 21'35 16° ට 37'24 16° ට 24'50 11° ට 34'14	0.62048 AU -2°43'49
evening set min. Earth dist. inferior conj minimum elong	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹♂	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41	24° ට 36'33 22° ට 16'23 19° ට 21'35 16° ට 37'24 16° ට 24'50 11° ට 34'14 11° ට 17'03	0.62048 AU -2°43'49
evening set min. Earth dist. inferior conj minimum elong asc. node	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹♂ 29°♂10'20	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11	24° \(\frac{3}{3}6'33\) 22° \(\frac{1}{6}'23\) 19° \(\frac{2}{2}1'35\) 16° \(\frac{2}{3}3'24\) 16° \(\frac{2}{3}2'50\) 11° \(\frac{3}{3}4'14\) 11° \(\frac{1}{1}7'03\) 11° \(\frac{1}{2}12'23\)	0.62048 AU -2°43'49 2°41'19
evening set min. Earth dist. inferior conj minimum elong	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹₹ 29°₹10'20 27°₹59'20	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41	24° 336'33 22° 316'23 19° 321'35 16° 337'24 16° 324'50 11° 334'14 11° 317'03 11° 312'23 14° 340'53	0.62048 AU -2°43'49
evening set min. Earth dist. inferior conj minimum elong asc. node	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹♂ 29°♂10'20	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11	24° \(\frac{3}{3}6'33\) 22° \(\frac{1}{6}'23\) 19° \(\frac{2}{2}1'35\) 16° \(\frac{2}{3}3'24\) 16° \(\frac{2}{3}2'50\) 11° \(\frac{3}{3}4'14\) 11° \(\frac{1}{1}7'03\) 11° \(\frac{1}{2}12'23\)	0.62048 AU -2°43'49 2°41'19
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹₹ 29°₹10'20 27°₹59'20	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25	24° 336'33 22° 316'23 19° 321'35 16° 337'24 16° 324'50 11° 334'14 11° 317'03 11° 312'23 14° 340'53	0.62048 AU -2°43'49 2°41'19
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹♂ 29°♂10'20 27°♂59'20 27°♂59'217	0.63988 AU -1°30'41	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28	24°♂36'33 22°♂16'23 19°♂21'35 16°♂37'24 16°♂24'50 11°♂34'14 11°♂17'03 11°♂12'23 14°♂40'53 0°≈	0.62048 AU -2°43'49 2°41'19
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°R♂ 29°♂10'20 27°♂59'20 27°♂529'17 0°≈	0.63988 AU -1°30'41 1°29'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18	24°る36'33 22°る16'23 19°る21'35 16°る37'24 16°る24'50 11°る34'14 11°る17'03 11°る12'23 14°る40'53 0°≈ 9°≈12'10	0.62048 AU -2°43'49 2°41'19
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43 10123 Feb 03 14:27	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°₹ठ 29°ठ10'20 27°ठ59'20 27°ठ59'21 0°≈ 0°≈50'21	0.63988 AU -1°30'41 1°29'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18	24°る36'33 22°る16'23 19°る21'35 16°る37'24 16°る24'50 11°る34'14 11°る17'03 11°る12'23 14°る40'53 0°≈ 9°≈12'10	0.62048 AU -2°43'49 2°41'19 17°49'14
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43 10123 Feb 03 14:27 10123 Feb 20 08:09	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°R♂ 29°♂10'20 27°♂59'20 27°♂59'21 0°≈ 0°≈50'21 26°≈10'32	0.63988 AU -1°30'41 1°29'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 02 05:52 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18 10124 Feb 13 08:18	24° る36'33 22° る16'23 19° る21'35 16° る37'24 16° る24'50 11° る34'14 11° る17'03 11° る12'23 14° る40'53 0° ≈ 9° ≈12'10 27° ≈12'22	0.62048 AU -2°43'49 2°41'19 17°49'14
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43 10123 Feb 03 14:27 10123 Feb 20 08:09 10123 Feb 22 14:11	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°R♂ 29°♂10'20 27°♂59'20 27°♂59'20 27°♂59'21 0°≈ 0°≈50'21 26°≈10'32 0°升	0.63988 AU -1°30'41 1°29'05	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18 10124 Feb 13 08:18	24° る36'33 22° る16'23 19° る21'35 16° る37'24 16° る24'50 11° る34'14 11° る17'03 11° る12'23 14° る40'53 0° ≈ 9° ≈12'10 27° ≈12'22	0.62048 AU -2°43'49 2°41'19 17°49'14
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43 10123 Feb 03 14:27 10123 Feb 20 08:09 10123 Feb 22 14:11	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°R♂ 29°♂10'20 27°♂59'20 27°♂59'20 27°♂59'21 0°≈ 0°≈50'21 26°≈10'32 0°升	0.63988 AU -1°30'41 1°29'05	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	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18 10124 Feb 13 08:18 10124 Feb 14 06:34 10124 Feb 14 05:55	24° る36'33 22° る16'23 19° る21'35 16° る37'24 16° る24'50 11° る34'14 11° る17'03 11° る12'23 14° る40'53 0° ≈ 9° ≈12'10 27° ≈12'22 28° ≈47'07 28° ≈44'24	0.62048 AU -2°43'49 2°41'19 17°49'14
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43 10123 Feb 03 14:27 10123 Feb 20 08:09 10123 Feb 22 14:11 10123 Feb 26 11:29	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°R♂ 29°♂10'20 27°♂59'20 27°♂59'20 27°♂59'21 0°≈ 0°≈50'21 26°≈10'32 0°升 6°升32'42	0.63988 AU -1°30'41 1°29'05 17°49'38	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	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18 10124 Feb 13 08:18 10124 Feb 14 06:34 10124 Feb 14 05:55 10124 Feb 13 21:55	24° る36'33 22° る16'23 19° る21'35 16° る37'24 16° る24'50 11° る34'14 11° る17'03 11° る12'23 14° る40'53 0° ≈ 9° ≈12'10 27° ≈12'22 28° ≈47'07 28° ≈44'24 28° ≈10'21	0.62048 AU -2°43'49 2°41'19 17°49'14
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	10123 Jan 05 17:16 10123 Jan 12 15:40 10123 Jan 16 10:42 10123 Jan 19 00:13 10123 Jan 19 03:05 10123 Jan 22 11:41 10123 Jan 23 13:34 10123 Jan 25 16:24 10123 Jan 28 03:17 10123 Feb 02 16:43 10123 Feb 03 14:27 10123 Feb 20 08:09 10123 Feb 22 14:11 10123 Feb 26 11:29	11°≈52'45 9°≈21'07 5°≈59'44 3°≈20'13 3°≈12'46 30°R♂ 29°♂10'20 27°♂59'20 27°♂59'20 27°♂59'21 0°≈ 0°≈50'21 26°≈10'32 0°升 6°升32'42	0.63988 AU -1°30'41 1°29'05 17°49'38	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	10123 Dec 19 07:30 10123 Dec 26 08:25 10123 Dec 30 01:17 10124 Jan 02 00:26 10124 Jan 09 05:47 10124 Jan 10 10:41 10124 Jan 11 11:11 10124 Jan 18 07:25 10124 Jan 28 21:28 10124 Feb 03 02:18 10124 Feb 13 08:18 10124 Feb 14 06:34 10124 Feb 14 05:55 10124 Feb 13 21:55 10124 Feb 14 13:56	24° る36'33 22° る16'23 19° る21'35 16° る37'24 16° る24'50 11° る17'03 11° る12'23 14° る40'53 0° ≈ 9° ≈12'10 27° ≈12'22 28° ≈47'07 28° ≈44'24 28° ≈10'21 29° ≈18'22 0° 米	0.62048 AU -2°43'49 2°41'19 17°49'14

evening rise	10124 Feb 28 16:22	22° ₩ 09'45		superior conj	10125 Jan 26 05:05	10°≈51'51	0°30'16
evening rise	10124 Mar 04 18:48	0°Υ		minimum elong	10125 Jan 26 07:20	11° ≈ 01'56	0°30'16
	10124 Mar 25 23:41	0°8		desc. node	10125 Jan 30 05:10	17° ≈ 55'05	
evening max el	10124 Mar 30 20:49	5° 8 32'23	21°33'35	max. Earth dist.	10125 Feb 02 20:05	24°≈05'55	1.41667 AU
asc. node	10124 Apr 07 08:55	10° 8 39'41			10125 Feb 06 09:36	0°) €	
retrograde	10124 Apr 08 20:45	10° 8 50'42		evening rise	10125 Feb 07 22:57	2° ∺ 31'34	
evening set	10124 Apr 13 06:20	9° 8 04'18			10125 Feb 26 03:54	$0^{\circ}\mathbf{\Upsilon}$	
inferior conj	10124 Apr 18 13:16	2° 8 47'48	2°55'13	evening max el	10125 Mar 13 13:32	19° Ƴ 17'29	22°52'07
minimum elong	10124 Apr 18 11:28	2° 8 54'04	2°54'41	retrograde	10125 Mar 23 16:53	25° Ƴ 17'17	
min. Earth dist.	10124 Apr 18 17:43	2° 8 32'16	0.68480 AU	asc. node	10125 Mar 25 06:06	25° Y 05'34	
	10124 Apr 20 14:27	30° ₹Ƴ		evening set	10125 Mar 28 13:42	23° Y 16'07	
morning rise	10124 Apr 23 16:24	26° Ƴ 34'01		inferior conj	10125 Apr 02 22:19	16° Ƴ 51'36	2°28'05
direct	10124 Apr 28 17:43	24° Y 22'13		minimum elong	10125 Apr 02 20:08	16° Ƴ 59'08	2°27'25
	10124 May 08 11:02	$0^{\circ}S$		min. Earth dist.	10125 Apr 02 14:25	17° Ƴ 18'58	0.68600 AU
morning max el	10124 May 08 18:50	0° 8 19'28	22°53'07	morning rise	10125 Apr 08 02:27	10° Ƴ 43'22	
desc. node	10124 May 11 08:52	3° 8 05'30		direct	10125 Apr 12 14:13	8° Y 52'46	
	10124 May 31 02:59	Π °0		morning max el	10125 Apr 21 08:58	13° Y 58′04	21°27'12
morning set	10124 Jun 12 02:37	18° Ⅱ 56'44		desc. node	10125 Apr 28 05:45	21° Y 58'25	
max. Earth dist.	10124 Jun 16 13:53	26° Ⅲ 28′01	1.40048 AU		10125 May 04 03:56	0° 8	
	10124 Jun 18 14:57	0ంత		morning set	10125 May 23 00:47	28° 8 19'19	
					10125 May 24 02:09	0°II	
superior conj	10124 Jun 24 08:27	10°5613'11		max. Earth dist.	10125 May 29 15:35	8° Ⅱ 59'49	1.42214 AU
minimum elong	10124 Jun 24 14:03	10°538'44	1°25'12		10105 1 06 00 55	010H25144	1050110
evening rise	10124 Jul 04 03:32	28°537'28		superior conj	10125 Jun 06 02:57	21° I 35'44	
asc. node	10124 Jul 04 07:42	28°957'15		minimum elong	10125 Jun 06 09:11	22° I 102'40	1°53'06
	10124 Jul 04 20:53	0°Ω	10020110		10125 Jun 10 21:57	0°95	
evening max el	10124 Jul 20 04:29	24° Ω 27'03	18°29'18	evening rise	10125 Jun 17 07:33	11°932'47 18°934'10	
retrograde	10124 Jul 27 21:51 10124 Jul 29 23:57	28° Ω 19'01 28° Ω 02'55		asc. node	10125 Jun 21 04:40 10125 Jun 27 22:49	18°≌34°10 0° Ω	
evening set inferior conj	10124 Jul 29 25.37 10124 Aug 06 16:36	28° Ω 32'08	0°11'37	evening max el	10125 Jul 03 14:45	0 δί 7° Ω 17'01	18°08'01
minimum elong	10124 Aug 06 16:36 10124 Aug 06 17:02	23° Ω 31'19	0°11'10	retrograde	10125 Jul 10 10:48	10°Ω45'30	18 08 01
transit middle	10124 Aug 06 17:02 10124 Aug 06 17:02	$23^{\circ}\Omega31'19$	0°11'10	evening set	10125 Jul 10 10:48 10125 Jul 12 20:40	10° Ω 19'58	
transit begin	10124 Aug 06 14:27	23°Ω36'24	0 11 10	inferior conj	10125 Jul 19 18:48	5° Ω 28'28	1°33'06
transit end	10124 Aug 06 19:36	23° Ω 26'14		minimum elong	10125 Jul 19 21:22	5°Ω22'35	1°31'53
desc. node	10124 Aug 07 07:54	23° Ω 01'53		min. Earth dist.	10125 Jul 23 01:53	2° Ω 28'31	0.60092 AU
min. Earth dist.	10124 Aug 10 00:21	20° Ω 56'12	0.57882 AU	desc. node	10125 Jul 25 05:05	0° Ω 44'43	0.000)2710
morning rise	10124 Aug 14 06:33	18° Ω 12'45		***************************************	10125 Jul 26 06:33	30°Rூ	
direct	10124 Aug 20 06:17	16° Ω 40'49		morning rise	10125 Jul 26 19:08	29° © 39'54	
morning max el	10124 Sep 03 14:51	24° Ω 18'44	26°59'29	direct	10125 Aug 02 07:13	27°538'19	
Č	10124 Sep 08 19:35	0° m)			10125 Aug 09 17:58	$0^{\circ}\Omega$	
	10124 Sep 27 20:06	0∘ ⊽		morning max el	10125 Aug 16 14:59	5° Ω 32'26	27°46'48
asc. node	10124 Sep 30 07:55	4° £ 55'28			10125 Sep 03 21:15	0° m)	
morning set	10124 Oct 03 15:42	11° ≏ 48'59		asc. node	10125 Sep 17 04:44	24° Mp 44'47	
				morning set	10125 Sep 17 21:17	26° Mp 10° 43	
superior conj	10124 Oct 10 14:03	26° £ 59'59	1°26'30		10125 Sep 19 16:42	0∘ ⊽	
minimum elong	10124 Oct 10 12:07	26° ≏ 49'14	1°26'28	max. Earth dist.	10125 Sep 24 01:22	9° ₽ 30′10	1.31552 AU
max. Earth dist.	10124 Oct 10 16:09	27° ≙ 11'38	1.31535 AU				
	10124 Oct 11 22:26	0°M₊		superior conj	10125 Sep 25 01:23	11° ≏ 43'14	1°11'31
evening rise	10124 Oct 17 09:25	11°M54'23		minimum elong	10125 Sep 24 23:09	11° ≏ 30'50	1°11'14
	10124 Oct 26 13:33	0° ∡ ¹		evening rise	10125 Oct 01 18:46	26° ≙ 30'40	
desc. node	10124 Nov 03 05:52	12° ∡ ¹46'13			10125 Oct 03 10:11	0° M ₊	
evening max el	10124 Nov 16 14:59	29° ∡ ¹25'03	26°51'18		10125 Oct 20 10:19	0° ⊼ ¹	
	10124 Nov 17 06:03	0°る		desc. node	10125 Oct 21 03:03	0° ₹ 57'40	25042141
retrograde	10124 Nov 30 13:16	6°る34'05		evening max el	10125 Oct 29 10:56	10° 🗷 38'33	25°43'41
evening set min. Earth dist.	10124 Dec 07 08:56 10124 Dec 11 05:22	4°る35'30 1°る57'17	0.59954 AU	retrograde evening set	10125 Nov 12 08:32 10125 Nov 18 12:27	17° х 39'34 16° х 11'13	
min. Earm dist.	10124 Dec 11 03.22 10124 Dec 13 15:35	1 3 3/1/	0.39934 AU	min. Earth dist.	10125 Nov 18 12.27 10125 Nov 22 23:26	13° х 11113	0.57890 AU
inferior conj	10124 Dec 13 13.33 10124 Dec 14 09:31	30 KX. 29° ∡ 723′21	-3°57'41	inferior conj	10125 Nov 26 00:01	13 x · 34 43	
minimum elong	10124 Dec 14 09:31 10124 Dec 14 17:03	29° x *23'21 29° x *08'05	3°54'55	minimum elong	10125 Nov 26 00:01 10125 Nov 26 07:21		5°00'25
morning rise	10124 Dec 14 17:03 10124 Dec 22 03:47	24° x 40'36	5 5 . 55	morning rise	10125 Nov 20 07:21 10125 Dec 04 04:36	7° × 707'14	5 00 25
direct	10124 Dec 22 03:47 10124 Dec 24 07:09	24° 🖈 40'30' 24° 🖈 23'21		direct	10125 Dec 04 04:50	6° × 751'10	
asc. node	10124 Dec 27 07:44	24° 🖈 59'27		asc. node	10125 Dec 14 04:47	10° х 31 10	
morning max el	10124 Dec 31 20:28	28° × ⁷ 08'20	18°07'45	morning max el	10125 Dec 15 01:47	11° х 13 17	18°47'02
	10125 Jan 02 13:57	0°중	/ - -		10125 Dec 27 15:22	0°ਰ	=
morning set	10125 Jan 16 12:18	22° る 57'53		morning set	10125 Dec 31 09:12	7° る 12'42	
Č	10125 Jan 20 06:34	0° ≈		Č			
						_	
				superior conj	10126 Jan 08 23:30	23°る52'09	0°59'36

		_				_	
minimum elong	10126 Jan 09 02:39	24° る 07'01	0°59'35	minimum elong	10126 Dec 23 11:42		1°20'43
	10126 Jan 12 06:31	0° ≈		max. Earth dist.	10126 Dec 29 09:51	19° る 12'51	1.37332 AU
max. Earth dist.	10126 Jan 16 03:29	6° ≈ 57'56	1.39524 AU	evening rise	10127 Jan 02 03:19	26° る 01'20	
desc. node	10126 Jan 17 02:03	8° ≈ 36'54		desc. node	10127 Jan 03 22:57	29° る 14'10	
evening rise	10126 Jan 20 02:44	13° ≈ 49′27			10127 Jan 04 09:28	0° ≈	
	10126 Jan 30 03:21	0°) €			10127 Jan 23 16:21	0°) €	
	10126 Feb 21 05:19	0 ° Υ		evening max el	10127 Feb 06 16:58	16° ∺ 54'58	25°27'32
evening max el	10126 Feb 24 03:43	3° ℃ 05'44	24°12'22	retrograde	10127 Feb 18 22:07	23°) € 57'43	
retrograde	10126 Mar 07 09:41	9° Ƴ 41'37		evening set	10127 Feb 24 19:18	21° ∺ 31'54	
asc. node	10126 Mar 12 03:19	7° Y 57'31		asc. node	10127 Feb 27 00:33	19° ∺ 20'33	
evening set	10126 Mar 12 18:34	7° Y 26′57		min. Earth dist.	10127 Mar 01 04:07	16°) 44′52	0.67563 AU
min. Earth dist.	10126 Mar 17 10:37	2° Y ′04'57	0.68286 AU	inferior conj	10127 Mar 02 11:45	15° ∺ 03'08	1°06'15
inferior conj	10126 Mar 18 06:26	0° Y 58′02	1°51'43	minimum elong	10127 Mar 02 10:14	15° ₩ 08'02	1°05'49
minimum elong	10126 Mar 18 04:20	1° Y 05'09	1°51'02	morning rise	10127 Mar 08 01:36	9° ₩ 10'21	
	10126 Mar 18 23:43	30° Ŗ ₩		direct	10127 Mar 11 12:13	8° ₩ 02'18	
morning rise	10126 Mar 23 14:10	24°) (56′48		morning max el	10127 Mar 18 11:18	11° ¥ 51'19	19°10'55
direct	10126 Mar 27 12:53	23°) €28'10		greatest brilliancy	10127 Mar 31 13:04	29° ∺ 12'49	-0.7m
morning max el	10126 Apr 04 06:10	27° ¥ 49'09	20°11'56		10127 Apr 01 01:38	0° Y	
C	10126 Apr 06 07:27	$0^{\circ}\mathbf{Y}$		desc. node	10127 Apr 01 23:24	1° Y ′22'07	
desc. node	10126 Apr 15 02:36	11° Y 27'22		morning set	10127 Apr 11 04:19	15° Y ′29′08	
	10126 Apr 27 15:25	0° ႘		C	10127 Apr 20 12:37	0°8	
morning set	10126 May 02 02:41	6° 8 50'47		max. Earth dist.	10127 Apr 24 16:24	6° 8 30'56	1.45160 AU
max. Earth dist.	10126 May 12 01:02	22° 8 26'17	1.43985 AU			. 0	
	10126 May 16 17:19	0°II		superior conj	10127 Apr 27 17:11	11° 8 18'05	-2°10'31
	10120 11111 10 17:17	~ ~		minimum elong	10127 Apr 27 13:31	11° 8 03'33	
superior conj	10126 May 17 21:41	1° ∏ 56'11	-2°10'21	mmmum vieng	10127 May 09 08:02	0°II	2 10 11
minimum elong	10126 May 18 00:58	2°П09'39	2°10'38	evening rise	10127 May 12 06:53	4° ∏ 50'35	
evening rise	10126 May 30 18:14	23° I I40'36	2 10 30	asc. node	10127 May 12 00:33	26° I I44'10	
evening rise	10126 Jun 03 10:03	0° ©		use. Houe	10127 May 28 07:17	0°95	
asc. node	10126 Jun 08 01:42	7° 9 52'17		evening max el	10127 May 28 07:17 10127 May 31 17:28	3° © 59'38	18°22'23
evening max el	10126 Jun 17 04:11	20°930'57	18°05'56	retrograde	10127 Jun 07 03:21	7° © 26'06	18 22 23
retrograde	10126 Jun 23 14:11	20 \$3037 23°\$51'20	18 03 30	evening set	10127 Jun 10 04:40	6°934'37	
evening set	10126 Jun 26 07:50	23° © 13'42		inferior conj	10127 Jun 16 00:43	1°506'33	3°01'44
•	10126 Jul 02 14:55	18°902'56	2°28'37		10127 Jun 16 00:45	1°500'33	3°01'01
inferior conj	10126 Jul 02 17:39	18 902 36 17°955'46	2°27'30	minimum elong		1 €30107 30°R I I	3 01 01
minimum elong min. Earth dist.	10126 Jul 02 17:39 10126 Jul 05 12:19	1/°933'46 15°902'13	0.62349 AU	min. Earth dist.	10127 Jun 16 23:25 10127 Jun 18 08:14	30°KⅡ 28°Ⅱ25'11	0.64406 AU
			0.02349 AU			28 Ⅲ 23 11 24° Ⅲ 49'14	0.04400 AU
morning rise	10126 Jul 09 01:30	11°555'22		morning rise	10127 Jun 21 23:20		
desc. node	10126 Jul 12 02:15	10°512'47		direct	10127 Jun 28 14:48	22° I 108'18	
direct	10126 Jul 15 18:38	9°529'23	27055125	desc. node	10127 Jun 28 23:21	22° Ⅱ 08'44	
morning max el	10126 Jul 29 21:21	17° © 31'28	2/°55'35		10127 Jul 12 03:59	0°©	27020101
	10126 Aug 09 06:45	0° Ω		morning max el	10127 Jul 12 07:20	0°9508'24	2/°28'01
	10126 Aug 27 16:05	0° my			10127 Aug 03 06:55	0°N	
morning set	10126 Sep 01 21:03	10° m 12'53		morning set	10127 Aug 16 12:29	23° Ω 48'46	
asc. node	10126 Sep 04 01:36	14° Tp 43'58	1.00000 177	75 d. 15 d.	10127 Aug 19 14:37	0° m)	1 220 6 7 1 7 7
max. Earth dist.	10126 Sep 07 07:06	21°Mp36'09	1.32060 AU	max. Earth dist.	10127 Aug 21 05:23	3° m 19'25	1.33065 AU
				asc. node	10127 Aug 21 22:28	4° Mp 48'26	
superior conj	10126 Sep 09 10:33	26° To 15'59	0°51'28				
minimum elong	10126 Sep 09 08:31	26° Mp 04'47	0°51'02	superior conj	10127 Aug 24 15:33	10° m 32'33	0°26'42
	10126 Sep 11 03:24	0∘ ত		minimum elong	10127 Aug 24 14:17	10° m 25'45	0°26'16
evening rise	10126 Sep 16 06:02	11° ≏ 09'26		evening rise	10127 Aug 31 17:21	25° m 45'09	
	10126 Sep 25 17:54	0° ™			10127 Sep 02 17:49	0∘ ত	
desc. node	10126 Oct 08 00:15	17° M 58'55			10127 Sep 21 05:56	0° M ₊	
evening max el	10126 Oct 10 23:26	21°M05'39	24°11'43	evening max el	10127 Sep 22 10:40	1° M ₊13′08	22°31'19
retrograde	10126 Oct 24 15:49	27°M56'47		desc. node	10127 Sep 24 21:29	3° M 24'14	
evening set	10126 Oct 29 15:29	27°M02'06		retrograde	10127 Oct 05 11:13	7° M 42'34	
min. Earth dist.	10126 Nov 04 10:08	24°M08'40	0.56115 AU	evening set	10127 Oct 08 22:52	7° M 15'49	
inferior conj	10126 Nov 06 18:00	22°M42'47		min. Earth dist.	10127 Oct 16 17:51		0.54939 AU
minimum elong	10126 Nov 06 20:40	22°M38'41	5°40'11	inferior conj	10127 Oct 17 18:08	3°M13′07	
morning rise	10126 Nov 15 03:54	18°M43'47		minimum elong	10127 Oct 17 12:45	3°M20'46	5°31'10
direct	10126 Nov 17 19:20	18°M25'34			10127 Oct 24 06:37	30°Ŗ 죠	
morning max el	10126 Nov 27 19:47	23°M10'34	19°48'49	morning rise	10127 Oct 26 04:21	29° ≏ 25'36	
asc. node	10126 Dec 01 01:48	26°M44'52		direct	10127 Oct 29 10:06	29° ≏ 01'47	
	10126 Dec 03 11:51	0° ∡ ¹			10127 Nov 03 07:46	0° M ₊	
morning set	10126 Dec 15 13:22	21° х 46′04		morning max el	10127 Nov 10 00:23	4° M 29′33	21°12'55
	10126 Dec 19 14:31	0°ප		asc. node	10127 Nov 17 22:47	14°M18'22	
					10127 Nov 26 17:47	0° ∡ ¹	
superior conj	10126 Dec 23 08:57	7° る 34'34	1°20'34	morning set	10127 Nov 29 22:09	6° ∡ ³30′17	

gunariar agni	10127 Dec 07 05:14	21° х 47'02	1°33'39	morning may al	10129 Oat 21 17:14	15° ≙ 02'59	22054221
superior conj minimum elong	10127 Dec 07 05:14 10127 Dec 07 06:57	21° x '47'02 21° x '55'52	1°33'58	morning max el	10128 Oct 21 17:14 10128 Nov 02 05:56	0°M	22 34 21
minimum clong	10127 Dec 07 06:37 10127 Dec 11 06:13	21 メ ・33 32	1 33 36	asc. node	10128 Nov 02 03.30 10128 Nov 03 19:42	2°M39'01	
max. Earth dist.	10127 Dec 11 00.13	0 3 1° る 07'04	1.35327 AU	morning set	10128 Nov 03 19:42 10128 Nov 13 09:18	21°M18'15	
evening rise	10127 Dec 11 19:44 10127 Dec 15 21:39	8°る59'33	1.55527 AU	morning set	10128 Nov 17 10:33	0° x ⁷	
desc. node	10127 Dec 13 21:39 10127 Dec 21 19:55	8 03933 19° る 42'48			10128 NOV 17 10.55	0 X	
desc. Hode	10127 Dec 21 19:33 10127 Dec 28 00:06	0°≈		superior conj	10128 Nov 20 08:54	6° ∡ 18'35	1°39'37
	10127 Dec 28 00:00 10128 Jan 19 13:38	0 ∞ 0° ∺		minimum elong	10128 Nov 20 08:34 10128 Nov 20 09:23		1°39'59
arranina marral	10128 Jan 20 06:18	0° X 40′59	26°30'26	max. Earth dist.	10128 Nov 20 09.23 10128 Nov 23 13:04	13° x '21'10	1.33683 AU
evening max el		0 X 4039 7° ¥ 59'18	20 30 20				1.33063 AU
retrograde	10128 Feb 02 05:29	5°¥26'28		evening rise	10128 Nov 28 05:52	22°♂33'26 0°舌	
evening set	10128 Feb 08 14:10	1° X 13'47	0.66451.411	1 1	10128 Dec 02 03:08		
min. Earth dist.	10128 Feb 12 16:49		0.66451 AU	desc. node	10128 Dec 07 16:56	9° る 57'01	
asc. node	10128 Feb 13 21:45	29° ≈ 47'03			10128 Dec 20 17:36	0°≈	25012150
	10128 Feb 13 17:28	30°R≈	0011154	evening max el	10129 Jan 01 19:33	14°≈14'30	2/°13′50
inferior conj	10128 Feb 14 12:14	29°≈03'17	0°11'54	retrograde	10129 Jan 15 06:49	21° ≈ 37'15	
minimum elong	10128 Feb 14 11:55	29°≈04'15	0°12'02	evening set	10129 Jan 22 01:00	19°≈03'17	0.64076.477
transit middle	10128 Feb 14 11:55	29° ≈ 04'15	0°12'02	min. Earth dist.	10129 Jan 25 22:30	15° ≈ 23'43	0.64976 AU
transit begin	10128 Feb 14 09:59	29° ≈ 10′03		inferior conj	10129 Jan 28 05:32	12°≈52'10	
transit end	10128 Feb 14 13:50	28° ≈ 58′28		minimum elong	10129 Jan 28 07:03	12° ≈ 47'57	0°50'01
morning rise	10128 Feb 20 10:37	23° ≈ 20'47		asc. node	10129 Jan 30 18:55	10° ≈ 10'49	
direct	10128 Feb 23 10:34	22° ≈ 30′26		morning rise	10129 Feb 03 14:39	7° ≈ 22'20	
morning max el	10128 Feb 29 23:10	26° ≈ 00'05	18°26'00	direct	10129 Feb 06 05:40	6° ≈ 45'58	
	10128 Mar 04 11:14	0° ∀		morning max el	10129 Feb 12 15:19	10° ≈ 07'32	17°57'54
desc. node	10128 Mar 18 20:12	21°) 36′01			10129 Feb 26 09:55	0° ℋ	
morning set	10128 Mar 21 03:30	25°) 15′29		morning set	10129 Mar 02 08:01	6° ∺ 28'59	
	10128 Mar 24 03:15	0° Υ		desc. node	10129 Mar 05 16:59	12° ∺ 03′03	
:	10120 4 05 22:40	20° Ƴ 12'14	1950122		10120 Mar. 16, 11,10	2001/20150	1014102
superior conj	10128 Apr 05 23:40	19° Y $36'20$		superior conj	10129 Mar 16 11:10	29°\(\frac{1}{2}6'50\) 28°\(\frac{1}{2}54'42\)	
minimum elong	10128 Apr 05 14:29		1°49'45	minimum elong	10129 Mar 16 03:05	28°π34'42 0° Υ	1-13:00
max. Earth dist.	10128 Apr 06 11:00	20° Y 56'33	1.45630 AU	n d ti	10129 Mar 16 19:32		1 45254 411
	10128 Apr 12 06:00	0°8		max. Earth dist.	10129 Mar 20 06:36	5°Υ27'56	1.45354 AU
evening rise	10128 Apr 21 19:38	15° 8 02'02		evening rise	10129 Apr 01 13:15	24° Y 31'49	
	10128 May 01 08:04	0°II	0.0		10129 Apr 05 02:46	0°8	0.6
greatest brilliancy	10128 May 01 11:20	0° Ⅱ 12'42	-0.8m	greatest brilliancy	10129 Apr 15 17:58	16° 8 02'55	-0.6m
asc. node	10128 May 11 19:56	15° Ⅱ 01'09			10129 Apr 26 04:29	0°П	
evening max el	10128 May 14 04:00	17° Ⅲ 36'47	18°56'34	evening max el	10129 Apr 27 09:53	1° Ⅱ 17'55	19°47'07
retrograde	10128 May 20 22:24	21° Ⅲ 22'00		asc. node	10129 Apr 28 17:04	2° ∏ 32'12	
evening set	10128 May 24 07:44	20° Ⅱ 15'35		retrograde	10129 May 04 20:21	5° Ⅲ 33′00	
inferior conj	10128 May 29 20:25	14° Ⅲ 31'54		evening set	10129 May 08 14:25	4° Ⅱ 11'00	
minimum elong	10128 May 29 21:05	14° Ⅱ 29'49	3°16'26		10129 May 12 14:27	30° ₹ 8	
min. Earth dist.	10128 May 31 12:54	12° ∏ 24′02	0.66115 AU	inferior conj	10129 May 13 22:53	28° 8 13'11	3°17'38
morning rise	10128 Jun 04 09:49	8° Ⅱ 11'27		minimum elong	10129 May 13 22:23	28° 8 14'50	3°17'15
direct	10128 Jun 10 18:22	5° Ⅱ 26'52		min. Earth dist.	10129 May 15 00:36	26° 8 47'07	0.67394 AU
desc. node	10128 Jun 14 20:25	6° Ⅱ 23'36		morning rise	10129 May 19 06:01	21° 8 53'46	
morning max el	10128 Jun 23 18:03	13° Ⅱ 10′55	26°30'46	direct	10129 May 25 03:58	19° 8 16'04	
	10128 Jul 07 07:40	0		desc. node	10129 Jun 01 17:24	22° 8 28'50	
	10128 Jul 25 23:21	$0^{\circ}\Omega$		morning max el	10129 Jun 06 03:54	26° 8 27'54	25°13'04
morning set	10128 Jul 29 16:22	6° Ω 49'48			10129 Jun 09 10:15	Π $\circ 0$	
max. Earth dist.	10128 Aug 02 17:18	14° Ω 37'02	1.34566 AU		10129 Jun 30 21:40	0 \circ	
				morning set	10129 Jul 12 04:29	19° © 04'58	
superior conj	10128 Aug 07 14:01	24° Ω 26'43	-0°02'12	max. Earth dist.	10129 Jul 15 19:13	25° 5 641'20	1.36509 AU
minimum elong	10128 Aug 07 14:09	24° Ω 27′25	0°02'28		10129 Jul 18 02:06	$0^{\circ}\Omega$	
behind sun begin	10128 Aug 07 08:21	23° Ω 57′28					
behind sun end	10128 Aug 07 19:57	24° Ω 57'25		superior conj	10129 Jul 22 03:04	7° Ω 51'10	-0°34'07
asc. node	10128 Aug 07 19:21	24° Ω 54'17		minimum elong	10129 Jul 22 05:12	8° Ω 01'46	0°34'05
	10128 Aug 10 06:02	0° m y		asc. node	10129 Jul 25 16:13	14° Ω 57'36	
evening rise	10128 Aug 15 02:42	10° m 12'14		evening rise	10129 Jul 30 07:53	24° Ω 24'44	
-	10128 Aug 25 11:35	0∘ ⊽		-	10129 Aug 02 02:50	0° m	
evening max el	10128 Sep 03 06:06	11° ≏ 38'39	20°58'50	evening max el	10129 Aug 16 14:58	22° m/46'29	19°44'11
desc. node	10128 Sep 10 18:44	16° ≙ 43'09		retrograde	10129 Aug 26 15:12	27° m/44'12	
retrograde	10128 Sep 14 23:07	17° ≏ 27'02		evening set	10129 Aug 28 11:52	27° m 34'41	
evening set	10128 Sep 17 06:25	17° ≏ 14'28		desc. node	10129 Aug 28 15:58	27° m/32'53	
inferior conj	10128 Sep 26 10:17	13° ≏ 18'50	-4°26'16	inferior conj	10129 Sep 06 08:58	23° m/32'20	-2°40'10
minimum elong	10128 Sep 26 00:28	13° ≏ 32'45		minimum elong	10129 Sep 06 01:47	23° m 43'27	
min. Earth dist.	10128 Sep 27 02:02	12° ≏ 56'30	0.54633 AU	min. Earth dist.	10129 Sep 08 12:35	22° m) 12'28	0.55287 AU
morning rise	10128 Oct 04 18:43	9° Ω 24'01	-	morning rise	10129 Sep 14 13:47	19° m 11'03	
direct	10128 Oct 08 18:11	8° £ 50'01		direct	10129 Sep 19 08:41	18° Mp 20'28	
						4 · · · = 0	

marring may al	10129 Oct 03 04:44	250 m 12147	24941100	direct	10120 Aug 21 12:06	200 006120	
morning max el		25° Mp 12'47 0° <u>₽</u>	24-41-09	direct	10130 Aug 31 12:06	28° Ω 06'30	
1-	10129 Oct 07 16:06	0° ± 21° £ 35'27			10130 Sep 07 11:30	0°M) 5°M>20142	26916127
asc. node	10129 Oct 21 16:35			morning max el	10130 Sep 14 18:29	5° ™ 29'42 0° ₽	20-10-27
	10129 Oct 25 23:17	0°M		1-	10130 Oct 02 16:05		
morning set	10129 Oct 28 21:04	6°M05′26		asc. node	10130 Oct 08 13:25	10° ⊆ 57'52	
	1012031 04 17 21	210 m 01142	1020107	morning set	10130 Oct 13 07:48	20° ₽ 46'39	
superior conj	10129 Nov 04 17:21	21°M01'42	1°39'06		10130 Oct 17 13:23	0°M	
minimum elong	10129 Nov 04 16:41	20°M58'04	1°39'25		10120 0 . 20 04 22	50 M 401 0 5	1022142
max. Earth dist.	10129 Nov 06 14:30	25°M07'54	1.32484 AU	superior conj	10130 Oct 20 04:23		1°32'42
	10129 Nov 08 20:55	0° ∡ 7		minimum elong	10130 Oct 20 02:49		1°32'48
evening rise	10129 Nov 12 00:34	6° ∡ ³34'24		max. Earth dist.	10130 Oct 20 21:45		1.31748 AU
desc. node	10129 Nov 24 14:00	29° ₹ 50′25		evening rise	10130 Oct 27 02:49	20°M54'09	
	10129 Nov 24 16:19	0° る			10130 Oct 31 14:17	0° ∡ ¹	
evening max el	10129 Dec 15 07:09	27° る 23'39	27°30'39	desc. node	10130 Nov 11 11:08	19° ∡ 14'18	
_	10129 Dec 18 06:34	0° ≈			10130 Nov 18 21:25	0° ろ	
retrograde	10129 Dec 29 01:06	4° ≈ 42'56		evening max el	10130 Nov 27 14:33	9° ප 54'54	27°15'28
evening set	10130 Jan 05 01:14	2°≈15'25		retrograde	10130 Dec 11 11:34	17° る 07'38	
	10130 Jan 07 19:57	30°₹⋜		evening set	10130 Dec 18 11:34	14° ろ 55'28	
min. Earth dist.	10130 Jan 08 19:06		0.63191 AU	min. Earth dist.	10130 Dec 22 05:03	12° ろ 09'23	0.61169 AU
inferior conj	10130 Jan 11 12:53	26° る 23'07		inferior conj	10130 Dec 25 07:05	9° る 27'49	
minimum elong	10130 Jan 11 16:49	26° ප 13'20	1°59'12	minimum elong	10130 Dec 25 13:33	9° ට 13'41	3°12'47
asc. node	10130 Jan 17 16:03	21° る 28'34		morning rise	10131 Jan 01 18:03	4° る 32'57	
morning rise	10130 Jan 18 10:32	21° ろ 09'01		direct	10131 Jan 03 22:16	4° る 13′21	
direct	10130 Jan 20 18:47	20° る 42'50		asc. node	10131 Jan 04 13:08	4° る 14'59	
morning max el	10130 Jan 27 08:49	24° පි 06'01	17°47'12	morning max el	10131 Jan 11 00:32	7° る 47'25	17°54'45
	10130 Feb 01 03:30	0° ≈			10131 Jan 25 09:18	0° ≈	
morning set	10130 Feb 12 14:18	18° ≈ 56'59		morning set	10131 Jan 26 15:54	2° ≈ 19'22	
	10130 Feb 19 00:14	0° ∀					
desc. node	10130 Feb 20 13:45	2°) 38′59		superior conj	10131 Feb 06 03:53	21° ≈ 07'42	0°09'42
				minimum elong	10131 Feb 06 04:45	21° ≈ 11′26	0°09'53
superior conj	10130 Feb 24 18:54	9°) 41′06	-0°31'07	behind sun begin	10131 Feb 05 22:12	20° ≈ 42'58	
minimum elong	10130 Feb 24 15:39	9°) 27'42	0°30'26	behind sun end	10131 Feb 06 11:18	21° ≈ 39'50	
max. Earth dist.	10130 Mar 03 00:50	19°) (49′40	1.44368 AU	desc. node	10131 Feb 07 10:34	23° ≈ 20'14	
	10130 Mar 09 11:52	0 ° Υ			10131 Feb 11 08:55	0°)	
evening rise	10130 Mar 12 00:41	3° Y 55'01		max. Earth dist.	10131 Feb 13 15:20	3° ∺ 45′25	1.42777 AU
	10130 Mar 29 13:56	0°B		evening rise	10131 Feb 19 21:05	13° ¥ 48′01	
evening max el	10130 Apr 10 10:11	15° 8 00'17	20°51'36		10131 Mar 02 11:35	0° Y	
asc. node	10130 Apr 15 14:14	19° 8 03'29		evening max el	10131 Mar 24 05:13	28° Ƴ 43'52	22°06'21
retrograde	10130 Apr 18 18:57	19° 8 53'46			10131 Mar 25 12:39	0° 8	
evening set	10130 Apr 22 22:40	18° 8 16'01		asc. node	10131 Apr 02 11:26	4° 8 19'46	
inferior conj	10130 Apr 28 05:32	12° 8 05'44	3°06'27	retrograde	10131 Apr 02 16:30	4° 8 19'59	
minimum elong	10130 Apr 28 04:07	12° 8 10'37	3°05'59	evening set	10131 Apr 07 06:52	2° 8 26'55	
min. Earth dist.	10130 Apr 28 17:25	11° 8 24'39	0.68218 AU		10131 Apr 09 16:02	30° ₹Ƴ	
morning rise	10130 May 03 09:21	5° 8 49'39		inferior conj	10131 Apr 12 14:16	26° Ƴ 06'32	2°44'53
direct	10130 May 08 18:30	3° 8 26'58		minimum elong	10131 Apr 12 12:16	26° Ƴ 13'32	2°44'17
morning max el	10130 May 19 13:17	9° 8 53'04	23°44'50	min. Earth dist.	10131 Apr 12 13:18	26° Ƴ 09'54	0.68584 AU
desc. node	10130 May 19 14:20	9° 8 55'42		morning rise	10131 Apr 17 17:32	19° Ƴ 55'11	
	10130 Jun 04 10:49	Π $^{\circ}0$		direct	10131 Apr 22 13:01	17° Ƴ 52'23	
morning set	10130 Jun 23 19:43	0° ട് 20'12		morning max el	10131 May 02 00:54	23° Y 26'50	22°15'45
	10130 Jun 23 14:58	0 \circ \mathfrak{s}		desc. node	10131 May 06 11:12	28° Ƴ 22'13	
max. Earth dist.	10130 Jun 27 16:11	7° © 00'44	1.38741 AU		10131 May 07 19:09	$_{0\circ}$ 8	
					10131 May 28 19:37	Π°	
superior conj	10130 Jul 05 03:01	20° © 35'53	-1°07'10	morning set	10131 Jun 04 09:24	10° Ⅲ 25′05	
minimum elong	10130 Jul 05 07:28	20°\$56'49	1°06'53	max. Earth dist.	10131 Jun 09 15:02	19° Ⅱ 03'27	1.41006 AU
	10130 Jul 10 00:49	$0^{\circ}\Omega$			10131 Jun 15 23:28	0°99	
asc. node	10130 Jul 12 13:07	4° Ω 54'01					
evening rise	10130 Jul 14 06:08	8° Ω 14'25		superior conj	10131 Jun 17 09:36	2° 5 31'20	-1°38'09
	10130 Jul 26 14:57	0° m/y		minimum elong	10131 Jun 17 15:46	2°958'51	1°37'52
evening max el	10130 Jul 30 12:27	4° m/39'15	18°50'31	evening rise	10131 Jun 27 18:04	21°533'00	
retrograde	10130 Aug 07 23:05	8° m 51'46		asc. node	10131 Jun 29 10:05	24°539'40	
evening set	10130 Aug 09 21:36	8°m/39'18			10131 Jul 02 07:40	$0^{\circ}\Omega$	
desc. node	10130 Aug 15 13:12	6° Mp 03′58		evening max el	10131 Jul 13 19:10	17° Ω 11'01	18°17'43
inferior conj	10130 Aug 18 01:29	4° m/19'40	-0°46'39	retrograde	10131 Jul 21 02:11	20° Ω 51'27	
minimum elong	-		0046106	-		20° Ω 31'48	
_	10130 Aug 17 23:32	4° m 23'10	0°46'06	evening set	10131 Jul 23 07:24	20 6631 40	
min. Earth dist.	10130 Aug 17 23:32 10130 Aug 21 03:20	4° m 23'10 2° m 07'42		inferior conj	10131 Jul 30 15:51	15° Ω 51'51	0°49'28
min. Earth dist.	-	-		-			0°49'28 0°48'32
min. Earth dist.	10130 Aug 21 03:20	2° m 07'42		inferior conj	10131 Jul 30 15:51	15° Ω 51'51	

min. Earth dist.	10131 Aug 03 00:36	13° Ω 02'54	0.58800 AU	desc. node	10132 Jul 19 07:34	21° 5 49'55	
morning rise	10131 Aug 07 00:10	10° Ω 18'30		direct	10132 Jul 25 11:39	19° 9 54'28	
direct	10131 Aug 13 05:43	8° Ω 34'00		morning max el	10132 Aug 08 18:05	27° 9 54'03	27°55'13
morning max el	10131 Aug 27 14:53	16° Ω 19'56	27°24'13		10132 Aug 10 18:34	$0^{\circ}\Omega$	
	10131 Sep 07 19:57	0° m			10132 Aug 31 14:31	0° ™	
asc. node	10131 Sep 25 10:15	11'29 ≏ 39		morning set	10132 Sep 10 19:16	19° m 32'12	
	10131 Sep 25 02:34	0∘ ত		asc. node	10132 Sep 11 07:07	20° m 33'38	
morning set	10131 Sep 27 15:49	5° ≏ 17'19			10132 Sep 15 17:16	0∘ ত	
				max. Earth dist.	10132 Sep 16 15:29	2° ≏ 01'27	1.31702 AU
superior conj	10131 Oct 04 16:10	20° ≏ 36′05	1°20'46				
minimum elong	10131 Oct 04 14:03	20° ≏ 24'18	1°20'38	superior conj	10132 Sep 18 02:53	5° ≏ 16'15	1°03'38
max. Earth dist.	10131 Oct 04 07:21	19° ≙ 47'03	1.31484 AU	minimum elong	10132 Sep 18 00:40	5° ഫ 03'59	1°03'16
	10131 Oct 08 21:58	0° M .		evening rise	10132 Sep 24 20:39	20° ₽ 04'31	
evening rise	10131 Oct 11 10:12	5° ™ 26′07			10132 Sep 29 15:16	0° M	
	10131 Oct 24 06:15	0° ∡ ¹		desc. node	10132 Oct 15 05:31	25° M ₊41'48	
desc. node	10131 Oct 29 08:18	7° ∡ ¹56'48			10132 Oct 18 20:47	0° ∡ ¹	
evening max el	10131 Nov 09 14:58	21° ₮ 37'16	26°26'08	evening max el	10132 Oct 21 07:21	2° ₹ 29'32	25°06'45
retrograde	10131 Nov 23 13:09	28° ∡ ¹43'22		retrograde	10132 Nov 04 04:04	9° ∡ ¹27'50	
evening set	10131 Nov 30 03:46	26° ∡ 56′23		evening set	10132 Nov 09 21:12	8° ∡ 13'53	
min. Earth dist.	10131 Dec 04 04:26	24° ∡ ¹21'21	0.59055 AU	min. Earth dist.	10132 Nov 14 19:14	5° ∡ ³32'19	0.57075 AU
inferior conj	10131 Dec 07 08:37	21° ∡ 56′30	-4°27'08	inferior conj	10132 Nov 17 14:31	3° ∡ ¹40'55	-5°23'05
minimum elong	10131 Dec 07 16:29	21° х 41'29	4°24'35	minimum elong	10132 Nov 17 20:30	3° ∡ ³30′59	5°21'50
morning rise	10131 Dec 15 07:48	17° ∡ ²23'38			10132 Nov 24 06:02	30° ŖM ₊	
direct	10131 Dec 17 11:45	17° ∡ 07'19		morning rise	10132 Nov 25 22:07	29°M30'18	
asc. node	10131 Dec 22 10:13	18° ∡ ³37'24		direct	10132 Nov 28 07:17	29°M13'54	
morning max el	10131 Dec 25 10:50	21° × ⁷ 01'41	18°21'56		10132 Dec 02 04:06	0° ∡ ¹	
C	10132 Jan 01 06:21	0°₹		morning max el	10132 Dec 07 11:54	3° ∡ ³38'17	19°10'29
morning set	10132 Jan 10 07:02	16° る 18'34		asc. node	10132 Dec 08 07:15	4° ∡ ¹26'39	
S	10132 Jan 17 12:21	0° ≈			10132 Dec 23 22:52	0°₹	
				morning set	10132 Dec 24 07:27	0° る 42'29	
superior conj	10132 Jan 19 11:31	3° ≈ 37'53	0°43'43				
minimum elong	10132 Jan 19 14:22	3° ≈ 50'54	0°43'42	superior conj	10133 Jan 01 12:58	16° る 58'02	1°09'29
desc. node	10132 Jan 25 07:26	14° ≈ 02'47		minimum elong	10133 Jan 01 16:03	17° る 12'58	1°09'31
max. Earth dist.	10132 Jan 27 00:36	17° ≈ 00'29	1.40767 AU	max. Earth dist.	10133 Jan 08 06:33	29° ට 33'21	1.38580 AU
evening rise	10132 Jan 31 12:22	24° ≈ 32'37			10133 Jan 08 12:28	0° ≈	
<i>8</i> 21	10132 Feb 03 21:08	0° ∀		desc. node	10133 Jan 11 04:20	4° ≈ 43'19	
	10132 Feb 24 07:56	0° Υ		evening rise	10133 Jan 12 01:21	6° ≈ 14'44	
evening max el	10132 Mar 05 20:25	12° Y ′29'20	23°26'25		10133 Jan 26 21:01	0° ∀	
retrograde	10132 Mar 16 11:31	18° Y 46'10		evening max el	10133 Feb 16 10:00	26°) 18′04	24°45'25
asc. node	10132 Mar 19 08:40	18° Υ 06'18		evening man er	10133 Feb 20 15:17	0°Υ	2 20
evening set	10132 Mar 21 13:23	16° Ƴ 38'52		retrograde	10133 Feb 28 02:42	3° Y ′07'15	
inferior conj	10132 Mar 26 23:10		2°13'47	evening set	10133 Mar 05 16:41	0° Υ 47'39	
minimum elong	10132 Mar 26 20:58	10° Y 19'17	2°13'06	asc. node	10133 Mar 06 05:53	0° Υ 18'14	
min. Earth dist.	10132 Mar 26 10:06	10° Y ′56'39	0.68511 AU		10133 Mar 06 13:32	30°R) €	
morning rise	10132 Apr 01 04:31	4° Υ ′06'16		min. Earth dist.	10133 Mar 10 05:33	25°) 40'16	0.68024 AU
direct	10132 Apr 05 10:31	2° Y 25'15		inferior conj	10133 Mar 11 06:21	24°) €17'58	
morning max el	10132 Apr 13 17:54	7° Υ 10'53	20°53'40	minimum elong	10133 Mar 11 04:26	24°) (24'23	1°32'56
desc. node	10132 Apr 22 08:03	17° Ƴ 31'35		morning rise	10133 Mar 16 16:22	18° ¥ 19'51	
	10132 May 01 03:11	0°8		direct	10133 Mar 20 09:44	17°) €00'15	
morning set	10132 May 13 21:25	19° 8 21'19		morning max el	10133 Mar 27 18:25		19°44'00
8	10132 May 20 14:29	0°II			10133 Apr 04 02:55	0° Υ	
max. Earth dist.	10132 May 21 19:40		1.43024 AU	desc. node	10133 Apr 09 04:52	7° Υ 12'11	
				greatest brilliancy	10133 Apr 09 13:25	7° Υ '43'27	-0.6m
superior conj	10132 May 28 18:18	13° Ⅱ 27'39	-2°02'09	morning set	10133 Apr 22 20:00	27° Y ′45'56	******
minimum elong	10132 May 28 23:50	13° I I51'03		morning sec	10133 Apr 24 06:47	0°8	
minimum ciong	10132 Jun 07 07:11	0°95	2 02 1 1	max. Earth dist.	10133 May 04 07:15		1.44563 AU
evening rise	10132 Jun 09 15:20	4° © 09'35		max. Earth dist.	10133 Way 01 07.13	15 05757	1.11303710
asc. node	10132 Jun 15 07:07	14° © 09'31		superior conj	10133 May 09 02:37	23° 8 21'13	-2°12'50
250. Houe	10132 Jun 26 02:15	0°Ω		minimum elong	10133 May 09 02:37 10133 May 09 03:16	23° 8 23'49	
evening max el	10132 Jun 26 07:13	0° Ω 12'22	18°04'49	minimum clong	10133 May 13 04:42	23 O 23 49 0° Ⅱ	2 13 10
retrograde	10132 Jul 20 07:13	3° Ω 35'47	10 0777	evening rise	10133 May 13 04.42 10133 May 22 17:04	15° Ⅱ 52'52	
evening set	10132 Jul 02 21.33 10132 Jul 05 10:56	3° Ω 05'33		evening 1150	10133 May 22 17.04 10133 May 31 02:55	0° ©	
evening set	10132 Jul	30°R©		asc. node	10133 May 31 02.33	0 છ 3°©17'16	
inferior conj	10132 Jul 10 01:39 10132 Jul 12 02:14	30 ଝୁଞ 28° ୭ 05'51	1°50'27	evening max el	10133 Jun 02 04.11 10133 Jun 09 21:00	13°533'36	18°10'48
minimum elong	10132 Jul 12 02:14 10132 Jul 12 05:03	28°905'51 27°958'59		retrograde	10133 Jun 16 05:46	16°954'42	10 1040
min. Earth dist.	10132 Jul 12 05:05	27 938 39 25°902'28	0.61060 AU	evening set	10133 Jun 19 02:42	16°9511'21	
min. Earth dist.	10132 Jul 15 06:05 10132 Jul 18 20:33	25°902'28 22°907'39	0.01000 AU	inferior conj	10133 Jun 19 02:42 10133 Jun 25 04:38	10°953'19	2045105
morning rise	10132 Jul 18 20.33	22 کان کا		inicitor conj	10133 Juli 23 04.38	10 2003 19	4303

minimum elong	10133 Jun 25 07:04	10° 5 946'36	2°44'08	min. Earth dist.	10134 Jun 10 20:10	21° Ⅲ 38'38	0.65182 AU
min. Earth dist.	10133 Jun 27 20:34	7° © 58'29	0.63259 AU	morning rise	10134 Jun 14 13:26	17° ∏ 47'54	
morning rise	10133 Jul 01 09:51	4°5540'48		direct	10134 Jun 21 02:37	15° Ⅱ 04'10	
desc. node	10133 Jul 06 04:42	2°519'09		desc. node	10134 Jun 23 01:45	15° Ⅱ 17'14	
direct	10133 Jul 08 03:13	2°506'47	27047157	morning max el	10134 Jul 04 12:30	22° Ⅱ 58'26	27°06'53
morning max el	10133 Jul 22 02:04	10°909'32	27°47'57		10134 Jul 10 17:36	0° ©	
	10133 Aug 06 14:36	0° Ω 0° n			10134 Jul 30 21:50	0° Ω 16° Ω 46'12	
morning set	10133 Aug 23 22:41 10133 Aug 25 15:50	3° Mp 24'04		morning set max. Earth dist.	10134 Aug 09 02:46 10134 Aug 13 12:29	25°Ω30'33	1.33649 AU
asc. node	10133 Aug 29 03:57	10° m) 35'33		max. Earth dist.	10134 Aug 15 12:29	0° m	1.33049 AU
max. Earth dist.	10133 Aug 29 03:37 10133 Aug 30 18:18	13° m) 57'52	1.32423 AU	asc. node	10134 Aug 16 00:49	0° Mp 41'13	
max. Earth dist.	10133 Aug 30 10.10	15 110 57 52	1.52425710	ase. node	10154 Mug 10 00.47	0 lig+115	
superior conj	10133 Sep 02 10:33	19° m 43'08	0°41'33	superior conj	10134 Aug 17 13:05	3° m)51'16	0°14'57
minimum elong	10133 Sep 02 08:45	19° mp 33'25	0°41'04	minimum elong	10134 Aug 17 12:20	3° m)47'17	
C	10133 Sep 07 03:46	0∘ <u>⊽</u>		behind sun begin	10134 Aug 17 09:56	3° m/34'42	
evening rise	10133 Sep 09 08:09	4° ≙ 42'44		behind sun end	10134 Aug 17 14:43	3° m 59'52	
	10133 Sep 22 17:42	0°M₊		evening rise	10134 Aug 24 18:54	19° m 15'52	
desc. node	10133 Oct 02 02:46	12°ML06'07			10134 Aug 30 01:12	0∘ 亚	
evening max el	10133 Oct 02 18:27	12°M44'53	23°29'06	evening max el	10134 Sep 14 08:11	22° ≙ 55'57	21°50'13
retrograde	10133 Oct 16 05:58	19°M28'20		desc. node	10134 Sep 18 23:59	26° ≏ 41'37	
evening set	10133 Oct 20 14:22	18° M 47'10		retrograde	10134 Sep 26 20:39	29° ₽ 09'28	
min. Earth dist.	10133 Oct 27 04:26	15°ML40'47	0.55525 AU	evening set	10134 Sep 29 18:42	28° ♀ 50'19	
inferior conj	10133 Oct 29 00:16	14°MJ36'12	-5°43'48	inferior conj	10134 Oct 08 19:21	24° ≏ 52'13	-5°10'42
minimum elong	10133 Oct 28 23:36	14°MJ37'12	5°43'30	minimum elong	10134 Oct 08 11:12	25° ഫ 03'37	5°09'04
morning rise	10133 Nov 06 10:42	10°M43'24		min. Earth dist.	10134 Oct 08 11:40	25° ≏ 02'58	0.54703 AU
direct	10133 Nov 09 07:44	10°M23'11		morning rise	10134 Oct 17 04:58	21° ≏ 04'28	
morning max el	10133 Nov 20 00:14	15°M26'06	20°21'52	direct	10134 Oct 20 18:18	20° ≏ 36'48	
asc. node	10133 Nov 25 04:14	21°M26'18		morning max el	10134 Nov 01 23:08	26° ≏ 23'17	21°54'23
	10133 Nov 30 15:07	0° ⊼ ¹			10134 Nov 05 09:04	0°M,	
morning set	10133 Dec 08 13:53	15° ₹ '21'10		asc. node	10134 Nov 12 01:09	9°M21'09	
	10133 Dec 15 16:47	0°₹		morning set	10134 Nov 22 23:54	0° ∡ 107'40	
superior conj	10133 Dec 16 03:28	0°る54'08	102702		10134 Nov 22 22:26	0° ⊼ ¹	
minimum elong	10133 Dec 16 05:49	1°る06'02		superior conj	10134 Nov 30 03:13	15° ∡ 15'29	1°37'00
max. Earth dist.	10133 Dec 10 03:49 10133 Dec 21 13:53	1 300 02	1.36451 AU	minimum elong	10134 Nov 30 03:13	15° x 1329	1°37'00 1°37'22
evening rise	10133 Dec 21 13:53 10133 Dec 25 09:59	18° る 47'34	1.30431 AC	max. Earth dist.	10134 Nov 30 04:23	23°×30'20	1.34585 AU
desc. node	10133 Dec 29 01:18	25° る 17'27		max. Earth dist.	10134 Dec 07 09:26	0°중	1.5 15 05 110
	10133 Dec 31 19:11	0° ≈		evening rise	10134 Dec 08 10:39	2°る01'49	
	10134 Jan 21 01:16	0°) €		desc. node	10134 Dec 15 22:18	15° ප් 40'37	
evening max el	10134 Jan 29 23:28	10° 米 07'22	25°56'18		10134 Dec 24 18:26	0° ≈	
retrograde	10134 Feb 11 13:00	17°) 17′34		evening max el	10135 Jan 12 12:57	23° ≈ 49′24	26°51'41
evening set	10134 Feb 17 15:08	14°) 48'31			10135 Jan 20 22:05	0°)	
asc. node	10134 Feb 21 03:06	11° 米 11'32		retrograde	10135 Jan 25 17:36	1° 米 09′57	
min. Earth dist.	10134 Feb 21 21:21	10° ¥ 15'57	0.67137 AU		10135 Jan 30 04:17	30° R ≈	
inferior conj	10134 Feb 23 09:53	8° ∺ 21'30	0°44'17	evening set	10135 Feb 01 06:49	28° ≈ 35'51	
minimum elong	10134 Feb 23 08:47	8°) 24′56	0°44'03	min. Earth dist.	10135 Feb 05 07:12	24° ≈ 37'38	0.65871 AU
morning rise	10134 Mar 01 03:03	2°) 32'36		inferior conj	10135 Feb 07 07:36	22° ≈ 17'18	
direct	10134 Mar 04 09:01	1°) € 32'19		minimum elong	10135 Feb 07 07:58	22°≈16′12	
morning max el	10134 Mar 11 02:34	5° ₩ 11'31	18°49'44	transit middle	10135 Feb 07 07:58	22°≈16'12	0°13'19
desc. node	10134 Mar 27 01:39	27°) 15'45		transit begin	10135 Feb 07 06:19	22°≈20'59	
. ,	10134 Mar 28 20:03	0°Υ 6° Ω 47!47		transit end	10135 Feb 07 09:37	22°≈11'25	
morning set	10134 Apr 02 04:50	6° Y 47'47	1.45451 AU	asc. node	10135 Feb 08 00:16	21°≈29'09	
max. Earth dist.	10134 Apr 17 00:34	0° 8	1.43431 AU	morning rise direct	10135 Feb 13 10:17	16°≈39'55 15°≈55'52	
	10134 Apr 17 01:27	0.0		morning max el	10135 Feb 16 06:19 10135 Feb 22 16:34	13 ≈33 32 19°≈20'23	18°11'58
superior conj	10134 Apr 18 14:43	2° 8 26'08	-2°04'25	morning max ci	10135 Feb 22 10.34 10135 Mar 02 20:48	19 ≈ 20 23	10 11 30
minimum elong	10134 Apr 18 08:04	2° 8 00'01		morning set	10135 Mar 13 16:25	17° ∺ 11'24	
evening rise	10134 May 03 19:26	26° 8 37'03		desc. node	10135 Mar 13 22:26	17°) 35'40	
	10134 May 05 21:42	0°Ⅱ		2000. 11040	10135 Mar 21 16:08	0° Υ	
asc. node	10134 May 20 01:18	21° I 55'38					
evening max el	10134 May 24 09:28	27° I 107'06	18°34'53	superior conj	10135 Mar 28 20:53	11° Y ′22'01	-1°36'25
<u> </u>	10134 May 28 04:58	0ංඔ		minimum elong	10135 Mar 28 11:22	10° Ƴ 44'41	1°35'31
retrograde	10134 May 30 21:48	0°939'41		max. Earth dist.	10135 Mar 30 20:28	14° Ƴ 28'27	1.45604 AU
	10134 Jun 02 13:16	30°RⅡ			10135 Apr 09 19:23	9° 8	
evening set	10134 Jun 03 02:35	29° Ⅱ 41'47		evening rise	10135 Apr 13 22:58	6° 8 27'35	
inferior conj	10134 Jun 08 19:04	24° Ⅱ 06′53	3°10'06	greatest brilliancy	10135 Apr 25 16:56	24° 8 36'35	-0.7m
minimum elong	10134 Jun 08 20:25	24° Ⅱ 02'45	3°09'31		10135 Apr 29 08:03	$\Pi^{\circ}0$	

asc. node	10135 May 06 22:26	9° ∏ 54'21			10136 Apr 01 20:13	0° ႘	
	•	9 П 3421 10° П 45'52	10017100		•	8° と 00'25	0.6
evening max el	10135 May 07 18:09		19°16'09	greatest brilliancy	10136 Apr 07 06:10	_	-0.6m 20°12'56
retrograde	10135 May 14 18:27	14° ∏ 42'35		evening max el	10136 Apr 19 21:35	24° 8 27'06	20°12′56
evening set	10135 May 18 07:27	13° Ⅱ 29'24		asc. node	10136 Apr 22 19:35	27° 8 01'39	
inferior conj	10135 May 23 17:57	7° Ⅱ 39'16	3°18'48	retrograde	10136 Apr 27 17:02	28° 8 58'09	
minimum elong	10135 May 23 18:06	7° Ⅱ 38'46	3°18'24	evening set	10136 May 01 15:01	27° 8 29'30	
min. Earth dist.	10135 May 25 03:57	5° Ⅱ 48'50	0.66711 AU	inferior conj	10136 May 06 22:29	21° 8 25'53	3°14'15
morning rise	10135 May 29 04:20	1° Ⅱ 18'56		minimum elong	10136 May 06 21:34	21° 8 29'00	3°13'50
	10135 May 30 21:30	30° Ŗ ႘		min. Earth dist.	10136 May 07 18:11	20° 8 18'49	0.67799 AU
direct	10135 Jun 04 08:36	28° 8 36'28		morning rise	10136 May 12 03:51	15° 8 07'25	
	10135 Jun 09 06:45	$\Pi^{\circ}0$		direct	10136 May 17 20:24	12° 8 35'26	
desc. node	10135 Jun 09 22:46	0° Ⅲ 22'22		desc. node	10136 May 26 19:44	17° 8 05'11	
morning max el	10135 Jun 16 23:04	6° Ⅱ 08'25	25°59'47	morning max el	10136 May 29 08:44	19° 8 29'48	24°36'12
C	10135 Jul 05 08:56	0° ©		Č	10136 Jun 07 06:57	0° Ⅱ	
morning set	10135 Jul 23 00:28	29° © 28'42			10136 Jun 27 12:09	0°55	
3	10135 Jul 23 07:14	$0^{\circ}\Omega$		morning set	10136 Jul 04 04:20	11° © 19'51	
max. Earth dist.	10135 Jul 26 20:11	6° Ω 41'06	1.35348 AU	max. Earth dist.	10136 Jul 07 19:03	17°5947'02	1.37432 AU
max. Lattii dist.	10133 Jul 20 20.11	0 8241 00	1.55546 AC	max. Larm dist.	10136 Jul 14 07:16	0°Ω	1.57432 AO
aumorior aomi	10125 Aug 01 07:52	17° Ω 33'11	0015127		10130 Jul 14 07.10	0 86	
superior conj	10135 Aug 01 07:52				10126 1 1 14 15 47	00 0 41100	0040110
minimum elong	10135 Aug 01 08:48	17° Ω 37'52	0°15'35	superior conj	10136 Jul 14 15:47	0° Ω 41'09	
behind sun begin	10135 Aug 01 07:16	17° Ω 30′04		minimum elong	10136 Jul 14 18:54	0° Ω 56'17	0°48'00
behind sun end	10135 Aug 01 10:20	17° Ω 45'40		asc. node	10136 Jul 19 18:36	10° Ω 46′52	
asc. node	10135 Aug 02 21:42	20° Ω 46′15		evening rise	10136 Jul 23 05:19	17° Ω 40'40	
	10135 Aug 07 08:44	0° m y			10136 Jul 29 14:34	0° m y	
evening rise	10135 Aug 09 02:45	3° Mp 37′23		evening max el	10136 Aug 08 23:22	15° m 03'44	19°18'48
	10135 Aug 24 04:04	0∘ ⊽		retrograde	10136 Aug 18 06:59	19° m 41'15	
evening max el	10135 Aug 27 08:53	3° ₽ 36'50	20°24'32	evening set	10136 Aug 20 03:11	19° m y31'11	
desc. node	10135 Sep 05 21:12	8° ≏ 58'43		desc. node	10136 Aug 22 18:27	18° Mp 44'32	
retrograde	10135 Sep 07 09:02	9° ഫ 04'33		inferior conj	10136 Aug 28 17:44	15° m) 22'31	-1°51'06
evening set	10135 Sep 09 09:44	8° ჲ 54'13		minimum elong	10136 Aug 28 12:48	15° m) 30'39	1°49'19
inferior conj	10135 Sep 18 12:26	4° Ω 56'54	-3°44'22	min. Earth dist.	10136 Aug 31 08:49	13° m 39'01	0.55818 AU
minimum elong	10135 Sep 18 12:20 10135 Sep 18 03:02	5° ₽ 10'37		morning rise	10136 Sep 05 19:38	10° m) 45'31	0.55010710
min. Earth dist.	10135 Sep 18 03:02 10135 Sep 19 20:25	3 — 1037 4° — 10'15	0.54796 AU	direct	10136 Sep 10 22:37	9° Mp 45'32	
			0.54790 AU		=		25924114
morning rise	10135 Sep 26 19:45	0° £ 53'04		morning max el	10136 Sep 25 00:40	16° m 53'05	25 24 14
direct	10135 Oct 01 03:06	0° Ω 13'12	22040400		10136 Oct 05 17:57	0∘ ʊ	
morning max el	10135 Oct 14 12:50	6° Ω 43'27	23°40'08	asc. node	10136 Oct 15 18:55	17° Ω 06'43	
asc. node	10135 Oct 29 22:03	27° ≏ 58'17		morning set	10136 Oct 21 23:03	29° ≏ 41'44	
	10135 Oct 31 00:44	0° M			10136 Oct 22 02:28	0° M	
morning set	10135 Nov 07 11:32	14°M56'24					
				superior conj	10136 Oct 28 19:02	14° ™ 39'29	1°37'05
superior conj	10135 Nov 14 09:14	29°M53'17	1°40'09	minimum elong	10136 Oct 28 17:57	14° ™ 33'30	1°37'20
minimum elong	10135 Nov 14 09:12	29°M53'10	1°40'31	max. Earth dist.	10136 Oct 30 04:02	17° M 40'56	1.32105 AU
	10135 Nov 14 10:28	0° ∡ ¹		evening rise	10136 Nov 04 21:55	29° ™ 58'18	
max. Earth dist.	10135 Nov 16 23:57	5° ∡ ¹29'45	1.33114 AU		10136 Nov 04 22:15	0° ∡ ¹	
evening rise	10135 Nov 21 23:42	15° ∡ ¹48'22		desc. node	10136 Nov 18 16:26	25° ∡ ¹29'29	
•	10135 Nov 29 11:27	0°₴			10136 Nov 21 12:42	აი	
desc. node	10135 Dec 02 19:20	5° ਰ 47'16		evening max el	10136 Dec 07 11:33	20° පි 08'19	27°28'20
	10135 Dec 19 10:05	0° ≈		retrograde	10136 Dec 21 07:30	27° る 25'57	
evening max el	10135 Dec 26 01:35	7° ≈ 14'00	27°24'29	evening set	10136 Dec 28 08:21	25° る 03'36	
retrograde	10136 Jan 08 16:06	14° ≈ 36'17	27 2129	min. Earth dist.	10137 Jan 01 01:22	22°る05'09	0.62350 AU
evening set	10136 Jan 15 13:32	14 ≈3017 12°≈03'41		inferior conj	10137 Jan 01 01:22 10137 Jan 03 23:13	22 ප 0309	
Č			0.64254.411	3			
min. Earth dist.	10136 Jan 19 09:06	8° ≈ 37'47	0.64254 AU	minimum elong	10137 Jan 04 04:15	19° る 08'57	2-3007
inferior conj	10136 Jan 21 21:02	5° ≈ 59'50		morning rise	10137 Jan 11 02:33	14° る 14'42	
minimum elong	10136 Jan 21 23:31	5° ≈ 53'15	1°18'34	asc. node	10137 Jan 11 18:30	14° る 03'18	
asc. node	10136 Jan 25 21:23	2° ≈ 10′29		direct	10137 Jan 13 08:33	13° る 51'53	
morning rise	10136 Jan 28 11:20	0° ≈ 36'40		morning max el	10137 Jan 20 03:00	17° る 18'51	17°48'05
direct	10136 Jan 30 23:12	0° ≈ 05'07			10137 Jan 29 04:30	0° ≈	
morning max el	10136 Feb 06 09:47	3° ≈ 26′02	17°51'14	morning set	10137 Feb 04 23:58	11° ≈ 52'49	
morning set	10136 Feb 23 08:41	28° ≈ 59′23		desc. node	10137 Feb 14 16:02	28° ≈ 46′06	
	10136 Feb 23 23:03	0°) €			10137 Feb 15 09:26	0°) €	
desc. node	10136 Feb 28 19:14	8° ∺ 07'24					
				superior conj	10137 Feb 16 10:19	1°) 45′06	-0°13'13
superior conj	10136 Mar 07 15:50	20° ¥ 59'40	-0°56'03	minimum elong	10137 Feb 16 09:02	1°) 39'46	
minimum elong	10136 Mar 07 09:40	20°\(\frac{7}{3}\) 34'50	0°55'06	behind sun begin	10137 Feb 16 03:36	1° X 16'51	
max. Earth dist.	10136 Mar 12 15:48	28°) 58'03	1.45016 AU	behind sun end	10137 Feb 16 14:28	2°) €02'38	
Zurur uist.	10136 Mar 13 07:30	20 γ (30 03	1	max. Earth dist.	10137 Feb 23 08:05	13° ¥ 08′29	1.43757 AU
	10130 Iviai 13 07.30						1.73/3/ AU
evening rise	10136 Mar 23 12:07	15° Y 50′01		evening rise	10137 Mar 03 01:38	25° ∺ 21'50	

evening max el	10137 Mar 06 01:56 10137 Mar 26 21:09 10137 Apr 02 19:31	0°Υ 0°႘ 8°႘09'56	21°22'25	superior conj minimum elong desc. node	10138 Jan 29 05:23 10138 Jan 29 07:21 10138 Feb 01 12:52	13°≈39'48 13°≈48'30 19°≈28'14	0°25'05 0°25'08
asc. node retrograde	10137 Apr 09 16:45 10137 Apr 11 15:26	13° 8 03'02 13° 8 21'42		max. Earth dist.	10138 Feb 05 20:13 10138 Feb 07 18:41	26°≈47'25 0° 米	1.41968 AU
evening set	10137 Apr 15 23:27	11° 8 37'36	2050121	evening rise	10138 Feb 11 05:20	5°) €35'27 0° °	
inferior conj minimum elong	10137 Apr 21 06:19 10137 Apr 21 04:36	5° 8 22'43 5° 8 28'40	2°58'31 2°57'59	evening max el	10138 Feb 27 07:56 10138 Mar 16 12:50	*	22°40'12
min. Earth dist.	10137 Apr 21 12:42	5° 8 00'29	0.68429 AU	retrograde	10138 Mar 26 11:58	27° Y ′48'22	
morning rise	10137 Apr 25 12:01 10137 Apr 26 09:32	30°₹ Υ 29° Υ 08'15		asc. node evening set	10138 Mar 27 13:59 10138 Mar 31 07:06	27° Y 42'37 25° Y 49'15	
direct	10137 Apr 20 09:32 10137 May 01 12:55	26° Υ '53'23		inferior conj	10138 Mai 31 07:00 10138 Apr 05 15:22		2°32'49
	10137 May 08 12:15	0°8		minimum elong	10138 Apr 05 13:13	19° Ƴ 33'14	
morning max el desc. node	10137 May 11 18:36 10137 May 13 16:39	2° 8 58'15 4° 8 59'47	23°06'24	min. Earth dist. morning rise	10138 Apr 05 09:15 10138 Apr 10 19:11	19° Ƴ 47'01 13° Ƴ 16'47	0.68611 AU
dese. Hode	10137 Jun 01 08:48	0°П		direct	10138 Apr 10 19:11 10138 Apr 15 08:59	11° Y 22'56	
morning set	10137 Jun 15 09:11	22° I I06'32		morning max el	10138 Apr 24 07:57	16° Ƴ 35′24	21°39'29
max. Earth dist.	10137 Jun 19 15:29 10137 Jun 20 00:44	29° Ⅱ 20'00 0° ©	1.39713 AU	desc. node	10138 Apr 30 13:31 10138 May 05 06:19	23° Y 46'07 0° と	
	1013/Juli 20 00.44	0 3			10138 May 05 00:19 10138 May 25 10:09	0°II	
superior conj	10137 Jun 27 08:57	13° © 06'32	-1°20'49	morning set	10138 May 26 11:19	1° Ⅱ 39'51	
minimum elong	10137 Jun 27 14:16	13°531'03	1°20'29	max. Earth dist.	10138 Jun 01 16:35	11° Ⅱ 45'10	1.41915 AU
evening rise	10137 Jul 06 07:20 10137 Jul 06 23:39	0° Ω 1° Ω 18'18		superior conj	10138 Jun 09 06:45	24° ∏ 38'12	-1°49'32
asc. node	10137 Jul 06 15:33	0° Ω 39'25		minimum elong	10138 Jun 09 13:04	25° Ⅱ 05'44	
evening max el	10137 Jul 23 01:23	27° Ω 14'58	18°34'10		10138 Jun 12 07:56	0°©	
retrograde	10137 Jul 26 14:37 10137 Jul 30 22:48	0°Mp 1°Mp11'38		evening rise asc. node	10138 Jun 20 05:55 10138 Jun 23 12:33	14°520'14 20°518'59	
evening set	10137 Jul 30 22:48 10137 Aug 01 23:56	0° Mp 56'34		asc. node	10138 Jun 29 01:52	20 3 16 39	
C	10137 Aug 04 12:35	30°R Ω		evening max el	10138 Jul 06 10:53	10° Ω 00'36	18°09'51
inferior conj	10137 Aug 09 19:31	26° Ω 28'48		retrograde	10138 Jul 13 09:22	13° Ω 31'39	
minimum elong transit middle	10137 Aug 09 19:23 10137 Aug 09 19:23	26° Ω 29'02 26° Ω 29'02	0°03'10 0°03'10	evening set inferior conj	10138 Jul 15 18:03 10138 Jul 22 18:45	13°Ω07'42 8°Ω19'02	1°22'27
transit begin	10137 Aug 09 15:51	26° Ω 35'50	0 05 10	minimum elong	10138 Jul 22 21:08		1°21'16
transit end	10137 Aug 09 22:56	26° Ω 22'13		min. Earth dist.	10138 Jul 26 02:32	5° Ω 21'17	0.59758 AU
desc. node min. Earth dist.	10137 Aug 09 15:41	26° Ω 36'10 23° Ω 58'28	0.57580 AU	desc. node	10138 Jul 27 12:53 10138 Jul 29 21:11	4°Ω11'22 2°Ω34'08	
morning rise	10137 Aug 13 02:15 10137 Aug 17 11:20	23	0.57580 AU	morning rise direct	10138 Jul 29 21.11 10138 Aug 05 07:48	2 δ (34 08 0° Ω 36'57	
direct	10137 Aug 23 08:47	19° Ω 47'19		morning max el	10138 Aug 19 16:01	8° Ω 28'52	27°42'11
morning max el	10137 Sep 06 16:49	27° Ω 21'35	26°49'22		10138 Sep 05 02:07	0° m)	
	10137 Sep 09 06:12 10137 Sep 29 06:01	0ം ⊽ 0ംൂൂ		asc. node morning set	10138 Sep 19 12:38 10138 Sep 20 15:08	26° m/25'25 28° m/43'07	
asc. node	10137 Oct 02 15:47	6° ≏ 38'10		morning sec	10138 Sep 21 05:45	0° ⊽	
morning set	10137 Oct 06 08:51	14° £ 19′08		max. Earth dist.	10138 Sep 26 22:07	12° £ 20′37	1.31520 AU
superior conj	10137 Oct 13 06:38	29° Ω 27'50	1°28'18	superior conj	10138 Sep 27 18:10	14° £ 11'51	1°14'08
minimum elong max. Earth dist.	10137 Oct 13 04:47 10137 Oct 13 12:36	29° £ 17'33 0° ጤ 01'01	1°28'19 1.31574 AU	minimum elong evening rise	10138 Sep 27 15:56 10138 Oct 04 11:34	13° £ 59'31 28° £ 59'39	1°13'53
	10137 Oct 13 12:25	0° M			10138 Oct 04 22:52	0°M	
evening rise	10137 Oct 20 02:39	14° M 24'28			10138 Oct 21 09:20	0° ∡ ¹	
desc. node	10137 Oct 27 22:32 10137 Nov 05 13:35	0° द्र ⁷ 14° द्र ⁷ 37'33		desc. node evening max el	10138 Oct 23 10:48 10138 Nov 01 13:39	2° х 57'36 13° х 41'26	25055125
desc. node	10137 Nov 03 13:33 10137 Nov 17 08:17	0°る		retrograde	10138 Nov 15 11:22	20° × 41'20	25 55 55
evening max el	10137 Nov 19 16:27	2° る 20'35	26°58'42	evening set	10138 Nov 21 18:31	19° ∡ 10′12	
retrograde	10137 Dec 03 14:30	9° る 30'19		min. Earth dist.	10138 Nov 26 02:18	16° х 34'49	0.58182 AU
evening set min. Earth dist.	10137 Dec 10 11:34 10137 Dec 14 07:00	7°る28'04 4°る48'09	0.60271 AU	inferior conj minimum elong	10138 Nov 29 04:13 10138 Nov 29 11:51	14° х 22'34 14° х 08'53	4°51'43
inferior conj	10137 Dec 17 10:47	2° ප 11'48		morning rise	10138 Dec 07 07:34	9° ∡ ′59′03	
minimum elong	10137 Dec 17 18:05		3°44'01	direct	10138 Dec 09 13:08	9° ∡ ′43′00	
morning rise	10137 Dec 20 05:32 10137 Dec 25 03:13	30°₹ ৴ 27° ৴ 25'41		asc. node morning max el	10138 Dec 16 12:39 10138 Dec 17 23:33	12° х ⁷ 31'21 13° х ⁷ 48'51	18°39'52
direct	10137 Dec 23 03:13 10137 Dec 27 06:41	27 x 23 41 27° x 07'55		morning max ci	10138 Dec 17 23.33 10138 Dec 29 00:32	0°る	10 3734
asc. node	10137 Dec 29 15:36	27° ∡ ³30'36		morning set	10139 Jan 03 03:30	9° ප් 44'16	
	10138 Jan 02 19:16	0°る	10002141	aa.i	10120 1 11 21 12	260=22111	0055141
morning max el morning set	10138 Jan 03 16:49 10138 Jan 19 07:56	0°る49'49 25°る32'45	18°03'41	superior conj minimum elong	10139 Jan 11 21:13 10139 Jan 12 00:20	26° පි33'11 26° පි47'47	0°55'41 0°55'38
	10138 Jan 21 17:25	0°≈			10139 Jan 13 17:42	0°≈	

max. Earth dist.	10139 Jan 19 04:20	9° ≈ 46'49	1.39849 AU	minimum elong	10139 Dec 26 07:36	10° る 24'25	1°18'00
desc. node	10139 Jan 19 09:46	10° ≈ 10'35		max. Earth dist.	10140 Jan 01 10:19	22° る 05'32	1.37645 AU
evening rise	10139 Jan 23 05:53	16° ≈ 45′05		evening rise	10140 Jan 05 03:32	28° る 49'25	
C	10139 Jan 31 10:30	0° ∀		C	10140 Jan 05 19:31	0° ≈	
	10139 Feb 21 22:36	0° Y		desc. node	10140 Jan 06 06:41	0° ≈ 48'56	
evening max el	10139 Feb 27 03:14	5° Y 42'34	24°00'32		10140 Jan 24 19:05	0°)	
retrograde	10139 Mar 10 05:21	12° Y 13'42		evening max el	10140 Feb 09 16:26	19°) 31'38	25°16'56
asc. node	10139 Mar 14 11:12	10° Ƴ 49'14		retrograde	10140 Feb 21 18:35	26°) €31'32	
evening set	10139 Mar 15 12:28	10° Y ′00'46		evening set	10140 Feb 27 13:54	24° ∺ 07'08	
min. Earth dist.	10139 Mar 20 05:38	4° Y 33'39	0.68360 AU	asc. node	10140 Feb 29 08:24	22° ∺ 24'36	
inferior conj	10139 Mar 20 23:45	3° Y ′32'11	1°57'48	min. Earth dist.	10140 Mar 02 23:42	19°) 1 4′51	0.67695 AU
minimum elong	10139 Mar 20 21:36	3° Ƴ 39'28	1°57'09	inferior conj	10140 Mar 04 05:36	17° ¥ 37'50	1°13'44
	10139 Mar 23 17:32	30° ₹		minimum elong	10140 Mar 04 03:57	17° ¥ 43'11	1°13'16
morning rise	10139 Mar 26 06:48	27° ∺ 29'54		morning rise	10140 Mar 09 18:22	11°) 43′40	
direct	10139 Mar 30 07:22	25° ¥ 58′08		direct	10140 Mar 13 06:40	10°) 32'47	
	10139 Apr 06 17:48	0° Υ		morning max el	10140 Mar 20 08:03	14° ¥ 25'54	19°18'59
morning max el	10139 Apr 07 04:04	0° Y 25′01	20°22'19		10140 Apr 01 06:21	0° Υ	
desc. node	10139 Apr 17 10:20	13° Y 10′14		greatest brilliancy	10140 Apr 02 04:26	1° Υ 21'51	-0.7m
	10139 Apr 28 21:59	0°8		desc. node	10140 Apr 03 07:07	3° Y ′01'32	
morning set	10139 May 05 15:19	10° 8 16'19		morning set	10140 Apr 13 15:20	18° Y ′48'57	
max. Earth dist.	10139 May 15 00:59	25° 8 04'29	1.43756 AU		10140 Apr 20 20:31	0°8	
	10139 May 18 02:06	П°0		max. Earth dist.	10140 Apr 26 15:12	9° 8 03'01	1.45028 AU
superior conj	10139 May 21 05:09	5° Ⅱ 07'56	-2°08'42	superior conj	10140 Apr 30 03:41	14° 8 37'17	-2°11'48
minimum elong	10139 May 21 09:10	5° Ⅱ 24'35	2°08'57	minimum elong	10140 Apr 30 01:10	14° 8 27'17	2°12'02
evening rise	10139 Jun 02 19:31	26° Ⅲ 36′04			10140 May 09 16:25	Π $\circ 0$	
	10139 Jun 04 18:20	0ಂತಾ		evening rise	10140 May 14 11:36	7° Ⅱ 54'47	
asc. node	10139 Jun 10 09:37	9° 5 40'35		asc. node	10140 May 27 06:41	28° Ⅲ 37′02	
evening max el	10139 Jun 20 00:03	23° © 11'28	18°04'58		10140 May 28 05:24	0 \circ \mathfrak{s}	
retrograde	10139 Jun 26 10:58	26°532'17		evening max el	10140 Jun 02 13:31	6° 5 38'28	18°18'49
evening set	10139 Jun 29 03:24	25° © 56'39		retrograde	10140 Jun 08 22:54	10° © 03'15	
inferior conj	10139 Jul 05 12:29	20°5548'36	2°21'40	evening set	10140 Jun 11 23:02	9° © 13'59	
minimum elong	10139 Jul 05 15:16	20°5641'24	2°20'31	inferior conj	10140 Jun 17 20:30	3° 5 48'30	2°57'55
min. Earth dist.	10139 Jul 08 11:40	17° 5 46'33	0.62023 AU	minimum elong	10140 Jun 17 22:31	3°5642'40	2°57'08
morning rise	10139 Jul 12 01:01	14° 5 43'01		min. Earth dist.	10140 Jun 20 06:17	1° 5 03'00	0.64118 AU
desc. node	10139 Jul 14 10:01	13° © 19'17			10140 Jun 21 05:32	30° Ŗ Ⅱ	
direct	10139 Jul 18 17:46	12° 5 20'09		morning rise	10140 Jun 23 20:44	27° Ⅲ 32′07	
morning max el	10139 Aug 01 21:43	20° © 21'56	27°56'40	desc. node	10140 Jun 30 07:05	24° Ⅱ 52'44	
	10139 Aug 10 04:23	$0^{\circ}\Omega$		direct	10140 Jun 30 12:51	24° ∏ 52'32	
	10139 Aug 29 02:14	0° ™			10140 Jul 11 04:49	0 \circ \mathfrak{s}	
morning set	10139 Sep 04 15:55	12°M)48'44		morning max el	10140 Jul 14 07:18	2° 9 54'05	27°34'11
asc. node	10139 Sep 06 09:30	16° m 23'30			10140 Aug 03 13:13	0 $^{\circ}$ Ω	
max. Earth dist.	10139 Sep 10 04:36	24° m 29'05	1.31953 AU	morning set	10140 Aug 18 08:48	26° Ω 29'39	
					10140 Aug 20 02:54	0° ™	
superior conj	10139 Sep 12 03:47	28° Mp 46'33	0°54'51	max. Earth dist.	10140 Aug 23 04:10	6° Mp 16′30	1.32880 AU
minimum elong	10139 Sep 12 01:40	28° m 34'59	0°54'24	asc. node	10140 Aug 23 06:22	6° Mp 28′00	
	10139 Sep 12 17:09	0∘ ⊽					
evening rise	10139 Sep 18 22:41	13° ≏ 38′20		superior conj	10140 Aug 26 09:33	13°M)06'32	0°30'46
	10139 Sep 27 01:35	0° M		minimum elong	10140 Aug 26 08:07	12° m 58'52	0°30'18
desc. node	10139 Oct 10 08:01	20°M11'02		evening rise	10140 Sep 02 10:07	28° m 15'20	
evening max el	10139 Oct 14 02:52	24°M13'46	24°26'19		10140 Sep 03 05:50	0∘ ⊽	
	10139 Oct 22 10:25	0° ⊼			10140 Sep 20 14:43	0°M,	
retrograde	10139 Oct 27 20:38	1° × 707'19		evening max el	10140 Sep 24 13:45	4°M22'40	22°46'09
evening set	10139 Nov 02 01:12	0° ∡ 107'40		desc. node	10140 Sep 26 05:14	5°M53'19	
t material	10139 Nov 02 09:14	30°RM	0.56241.433	retrograde	10140 Oct 07 17:49	10°M56'28	
min. Earth dist.	10139 Nov 07 13:51		0.56341 AU	evening set	10140 Oct 11 10:38	10°M26'28	0.55062.411
inferior conj	10139 Nov 10 01:12	25°M45'03		min. Earth dist.	10140 Oct 18 21:57	7°M04'15	0.55063 AU
minimum elong	10139 Nov 10 04:53	25°M39'15	3 3031	inferior conj	10140 Oct 20 03:37	6°M21'51	
morning rise	10139 Nov 18 10:43	21°M43'26		minimum elong	10140 Oct 19 23:25	6°M27'53	3 30 24
direct	10139 Nov 21 00:16	21°M25'50 26°M05'12	19°38'16	morning rise direct	10140 Oct 28 13:58	2°M33'27 2°M10'43	
morning max el	10139 Nov 30 19:28	28°M52'11	19 30 10		10140 Oct 31 17:17	7°M32'09	20°59'03
asc. node	10139 Dec 03 09:39 10139 Dec 04 07:39	28°1163211 0° √ 1		morning max el asc. node	10140 Nov 12 02:07 10140 Nov 19 06:36	16°M17'28	20 37 03
morning set	10139 Dec 04 07.39 10139 Dec 18 06:48	0 x · 24° ₹ 15'25		ase. Houc	10140 Nov 19 06.36 10140 Nov 27 04:19	10 IIL1 / 28 0° ₹ ¹	
morning set	10139 Dec 18 00:48	0°る		morning set	10140 Nov 27 04:19 10140 Dec 01 15:00	8° ∡ 758′21	
	200 21 02.00						
superior conj	10139 Dec 26 04:44	10° ප 10'19	1°17'53	superior conj	10140 Dec 08 23:37	24° ⊀ 18'55	1°32'07

minimum along	10140 Dag 00 01:20	24° ∡ ¹28'38	1°32'25		10141 Nov 18 23:55	0° ∡ 7	
minimum elong	10140 Dec 09 01:30 10140 Dec 11 18:42	24 x ·2838	1 32 23		10141 NOV 18 23.33	0 x .	
max. Earth dist.	10140 Dec 13 19:12	4° ට 00'41	1.35606 AU	superior conj	10141 Nov 23 02:20	8° ∡ ¹48'01	1°39'07
evening rise	10140 Dec 17 19:27	11° පි 41'27		minimum elong	10141 Nov 23 03:00	8° ≯ 51'36	1°39'31
desc. node	10140 Dec 23 03:40	21° る 19'22		max. Earth dist.	10141 Nov 26 11:25	15° ₹ 54'25	1.33907 AU
	10140 Dec 28 07:31	0° ≈		evening rise	10141 Dec 01 01:50	25° х 10′39	
	10141 Jan 19 00:58	0° ∀			10141 Dec 03 14:02	0°ප	
evening max el	10141 Jan 22 05:46	3° ¥ 18'36	26°22'10	desc. node	10141 Dec 10 00:42	11° る 36'17	
retrograde	10141 Feb 04 02:46	10°) 35′22			10141 Dec 21 18:55	0° ≈	
evening set	10141 Feb 10 09:44	8°) €03'25	0.66620.444	evening max el	10142 Jan 04 19:11	16°≈54'59	27°08'55
min. Earth dist.	10141 Feb 14 13:17	3° ¥ 45'32 2° ¥ 56'21	0.66639 AU	retrograde	10142 Jan 18 04:56	24°≈17'16	
inferior conj	10141 Feb 15 05:34 10141 Feb 16 06:55	2 X 36 21 1° X 38'55	0°20'44	evening set min. Earth dist.	10142 Jan 24 21:53 10142 Jan 28 20:09	21°≈43'12 17°≈58'46	0.65217 AU
minimum elong	10141 Feb 16 06:33	1° ∺ 40′36	0°20'45	inferior conj	10142 Jan 31 01:25	17 ≈38 40 15°≈29'58	
minimum crong	10141 Feb 17 15:59	30°R≈	0 20 13	minimum elong	10142 Jan 31 02:37	15°≈26'36	0°40'05
morning rise	10141 Feb 22 03:51	25° ≈ 54'38		asc. node	10142 Feb 02 02:42	13° ≈ 16'39	
direct	10141 Feb 25 05:17	25° ≈ 01'50		morning rise	10142 Feb 06 08:48	9° ≈ 57'59	
morning max el	10141 Mar 03 18:58	28° ≈ 33'43	18°31'34	direct	10142 Feb 09 01:05	9° ≈ 19'43	
	10141 Mar 05 03:52	0° ∀		morning max el	10142 Feb 15 10:37	12° ≈ 41'44	18°01'01
desc. node	10141 Mar 21 03:54	23° ¥ 12'52			10142 Feb 27 17:00	0° ∀	
morning set	10141 Mar 24 10:22	28° ∺ 22'32		morning set	10142 Mar 05 10:38	9° ∺ 23'55	
	10141 Mar 25 11:03	0° Y		desc. node	10142 Mar 08 00:43	13°) 38′34	
					10142 Mar 18 03:56	0 ° Υ	
superior conj	10141 Apr 09 11:02	23° Y 32'43			1014034 10 20 20	200041126	1020112
minimum elong	10141 Apr 09 02:18	22° Y 58'32		superior conj	10142 Mar 19 20:39	2°Υ41'26	
max. Earth dist.	10141 Apr 09 09:22 10141 Apr 13 14:01	23° Y 26'12 0° ႘	1.45608 AU	minimum elong max. Earth dist.	10142 Mar 19 12:01 10142 Mar 23 05:15	2° Y ′07'16 7° Y ′59'01	1.45442 AU
evening rise	10141 Apr 13 14.01 10141 Apr 25 03:43	18° 8 14'04		evening rise	10142 Mai 23 03.13 10142 Apr 04 23:37	7 γ 3901 27° γ 48'53	1.43442 AU
evening rise	10141 May 02 13:53	0°П		evening rise	10142 Apr 06 09:39	0° 8	
greatest brilliancy	10141 May 04 00:14	2° Ⅱ 14'52	-0.8m	greatest brilliancy	10142 Apr 18 14:41	18° 8 33'40	-0.7m
asc. node	10141 May 14 03:46	17° I 100'00		8	10142 Apr 26 20:19	0°П	******
evening max el	10141 May 17 00:36	20° Ⅱ 14'55	18°50'27	evening max el	10142 Apr 30 07:18	3° Ⅱ 56'11	19°38'36
retrograde	10141 May 23 17:10	23° Ⅲ 56′24		asc. node	10142 May 01 00:54	4° Ⅱ 39'11	
evening set	10141 May 27 01:19	22° II 52'14		retrograde	10142 May 07 14:50	8° Ⅱ 06′00	
inferior conj	10141 Jun 01 14:53	17° Ⅱ 10'55	3°15'34	evening set	10142 May 11 07:36	6° Ⅱ 46'15	
minimum elong	10141 Jun 01 15:44	17° Ⅱ 08'16	3°15'05	inferior conj	10142 May 16 16:30	0° ∏ 50′24	
min. Earth dist.	10141 Jun 03 09:38	14° Ⅱ 57'22	0.65886 AU	minimum elong	10142 May 16 16:11	0° ∏ 51′29	3°17'56
morning rise	10141 Jun 07 05:29	10° Ⅱ 50'43			10142 May 17 07:39	30°R₩	0.65005.444
direct	10141 Jun 13 15:24	8°Ⅱ05'55		min. Earth dist.	10142 May 17 20:21		0.67235 AU
desc. node morning max el	10141 Jun 17 04:07 10141 Jun 26 17:54	8° Ⅱ 48'16 15° Ⅱ 53'11	26940!51	morning rise direct	10142 May 22 00:25 10142 May 28 00:07	24° 8 30'46 21° 8 51'34	
morning max er	10141 Jul 08 08:54	0°9	20 40 31	desc. node	10142 Jun 04 01:06	24° 8 39'04	
	10141 Jul 27 09:02	0° U		morning max el	10142 Jun 09 03:53	29° 8 08'45	25°25'35
morning set	10141 Aug 01 14:35	9° Ω 36'28		morning max or	10142 Jun 09 23:44	0°П	20 20 30
max. Earth dist.	10141 Aug 05 17:36		1.34312 AU		10142 Jul 02 04:20	0°ತಾ	
	Č			morning set	10142 Jul 15 05:19	21° © 59'05	
superior conj	10141 Aug 10 09:06	27° Ω 04'40	0°02'27	max. Earth dist.	10142 Jul 18 20:54	28°5542'40	1.36201 AU
minimum elong	10141 Aug 10 08:59	27° Ω 04'03	0°02'09		10142 Jul 19 13:18	0 ° Ω	
behind sun begin	10141 Aug 10 03:14	26° Ω 34'14					
behind sun end	10141 Aug 10 14:45	27° Ω 33'56		superior conj	10142 Jul 24 23:45	10° Ω 34'01	
asc. node	10141 Aug 10 03:12	26° Ω 34'03		minimum elong	10142 Jul 25 01:33	10° Ω 43'02	0°29'09
	10141 Aug 11 18:44	0°M)		asc. node	10142 Jul 28 00:06	16° Ω 38'12	
evening rise	10141 Aug 17 19:51	12° m 44'12		evening rise	10142 Aug 02 01:48	26° Ω 59'20	
evening max el	10141 Aug 26 16:05 10141 Sep 06 07:33	0° ჲ 14° ჲ 43'58	21011140	evening max el	10142 Aug 03 13:30 10142 Aug 19 14:16	0° Т р 25° Т р 44'23	10°53'57
desc. node	10141 Sep 13 02:28	19° £ 33'33	21 11 40	evening max er	10142 Aug 15 14:10 10142 Aug 25 16:18	0° ⊽	19 33 37
retrograde	10141 Sep 18 05:58	20° ♀ 39'05		retrograde	10142 Aug 29 20:33	∘ _ 0° _ 49'45	
evening set	10141 Sep 20 16:32	20° ≏ 25'13		desc. node	10142 Aug 30 23:41	0° Ω 46'17	
inferior conj	10141 Sep 29 20:05	16° ≏ 29'30	-4°39'32	evening set	10142 Aug 31 17:54	0° ≙ 40'10	
minimum elong	10141 Sep 29 10:26	16° ≏ 43'05		-	10142 Sep 03 06:14	30°R, Mp	
min. Earth dist.	10141 Sep 30 05:50	16° ≙ 15'46	0.54623 AU	inferior conj	10142 Sep 09 16:50	26° m 39'26	-2°57'28
morning rise	10141 Oct 08 04:51	12° ₽ 37'09		minimum elong	10142 Sep 09 08:56	26° Mp 51'26	2°54'42
direct	10141 Oct 12 01:42	12° ♀ 04'54		min. Earth dist.	10142 Sep 11 15:43	-•	0.55135 AU
morning max el	10141 Oct 24 20:17	18° 亞 11'09	22°38'26	morning rise	10142 Sep 17 22:26	22° m 23'14	
_	10141 Nov 03 08:23	0°M,		direct	10142 Sep 22 14:23	21° m 35'41	
asc. node	10141 Nov 06 03:31	4°M31'53		morning max el	10142 Oct 06 08:01	28° m/22'14	24°25'35
morning set	10141 Nov 16 01:53	23°M46'06			10142 Oct 07 23:28	0∘ ⊽	

asc. node	10142 Oct 24 00:26	23° ₽ 23'39		asc. node	10143 Oct 10 21:19	12° ≏ 43'06	
	10142 Oct 27 10:33	0° M .		morning set	10143 Oct 16 00:43	23° ♀ 16'52	
morning set	10142 Oct 31 13:41	8°M33'50		_	10143 Oct 19 03:02	0° M .	
Ü							
superior conj	10142 Nov 07 10:12	23°M29'52	1°39'34	superior conj	10143 Oct 22 21:02	8°M17'55	1°34'02
minimum elong	10142 Nov 07 10:12	23°M27'08	1°39'54		10143 Oct 22 21:02 10143 Oct 22 19:35		1°34'11
•				minimum elong			
max. Earth dist.	10142 Nov 09 11:50	27°M59'28	1.32635 AU	max. Earth dist.	10143 Oct 23 18:27	10°M16'31	1.31822 AU
	10142 Nov 10 10:16	0° ∡ 7		evening rise	10143 Oct 29 20:29	23°M25'55	
evening rise	10142 Nov 14 19:10	9° ₰ 08'04			10143 Nov 02 01:33	0° ∡	
	10142 Nov 25 23:33	0° る		desc. node	10143 Nov 13 18:54	21° ∡ 02′58	
desc. node	10142 Nov 26 21:47	1° そ 33'31			10143 Nov 19 18:55	0°ರ	
	10142 Dec 18 03:32	0° ≈		evening max el	10143 Nov 30 15:19	12° る 46'40	27°19'54
evening max el	10142 Dec 18 07:11	0° ≈ 08'41	27°30'03	retrograde	10143 Dec 14 12:05	20° ට 00'51	
retrograde	10143 Jan 01 00:14	7° ≈ 28'38		evening set	10143 Dec 21 12:37	17° る 45'35	
evening set	10143 Jan 07 23:53	4°≈59'33		min. Earth dist.	10143 Dec 25 05:44	14° る 56'46	0.61480 AU
•			0.62474.411			14 03040 12° る 13'55	
min. Earth dist.	10143 Jan 11 18:07	1°≈46'01	0.63474 AU	inferior conj	10143 Dec 28 06:54		
	10143 Jan 13 12:28	30°Ŗਰ		minimum elong	10143 Dec 28 13:01	12° る 00'17	3°01'34
inferior conj	10143 Jan 14 10:27	29° る 04'11		morning rise	10144 Jan 04 15:55	7° る 16'09	
minimum elong	10143 Jan 14 14:00	28° る 55'14	1°48'20	direct	10144 Jan 06 20:29	6° る 55'50	
asc. node	10143 Jan 19 23:51	24° る 23'25		asc. node	10144 Jan 06 20:59	6° る 55'50	
morning rise	10143 Jan 21 06:10	23° る 47'39		morning max el	10144 Jan 13 20:26	10° る 27'41	17°52'26
direct	10143 Jan 23 15:19	23° る 20'09			10144 Jan 26 18:35	0° ≈ ≈	
morning max el	10143 Jan 30 04:09	26° る 42'20	17°47'43	morning set	10144 Jan 29 12:38	4°≈58'02	
morning man er	10143 Feb 02 01:15	0°≈	17 17 15	morning sec	1011110411 25 12.50		
morning set	10143 Feb 15 13:30	21°≈42'18		superior conj	10144 Feb 09 06:09	24° ≈ 02'12	0°03'52
morning set							
	10143 Feb 20 09:34	0°) {		minimum elong	10144 Feb 09 06:31	24°≈03'47	0°04'06
desc. node	10143 Feb 22 21:32	4°) (13′41		behind sun begin	10144 Feb 08 22:20	23° ≈ 28'31	
				behind sun end	10144 Feb 09 14:42	24° ≈ 38'58	
superior conj	10143 Feb 28 00:50	12°) 45′39	-0°37'39	desc. node	10144 Feb 09 18:22	24° ≈ 54'43	
minimum elong	10143 Feb 27 20:49	12° ∺ 29'14	0°36'53		10144 Feb 12 18:19	0° ∀	
max. Earth dist.	10143 Mar 06 00:04	22°) € 24'07	1.44555 AU	max. Earth dist.	10144 Feb 16 15:04	6°) 24′19	1.43046 AU
	10143 Mar 10 19:43	$0^{\circ}\mathbf{\Upsilon}$		evening rise	10144 Feb 23 05:16	16° ¥ 57'32	
evening rise	10143 Mar 15 11:01	7° Υ 10'48		Č	10144 Mar 02 17:35	0° Υ	
	10143 Mar 30 17:14	0°8			10144 Mar 24 20:55	0°8	
evening max el	10143 Apr 13 08:26	17° 8 38'29	20°41'10	evening max el	10144 Mar 26 04:09	1° 8 21'40	2105442
Č		21° 8 20'44	20 41 10	asc. node		6° 8 49'29	21 3443
asc. node	10143 Apr 17 22:04				10144 Apr 03 19:16	_	
retrograde	10143 Apr 21 13:33	22° 8 25'57		retrograde	10144 Apr 04 11:27	6° 8 51'43	
evening set	10143 Apr 25 15:47	20° 8 50'28		evening set	10144 Apr 09 00:07	5° 8 00'55	
inferior conj	10143 Apr 30 22:43	14° 8 41'48	3°08'50		10144 Apr 13 08:46	30° ₹Ƴ	
minimum elong	10143 Apr 30 21:25	14° 8 46'15	3°08'23	inferior conj	10144 Apr 14 07:19	28° Y 41'46	2°48'47
min. Earth dist.	10143 May 01 12:34	13° 8 54'05	0.68124 AU	minimum elong	10144 Apr 14 05:22	28° Ƴ 48'32	2°48'12
morning rise	10143 May 06 02:51	8° 8 25'05		min. Earth dist.	10144 Apr 14 08:12	28° Y 38'38	0.68558 AU
direct	10143 May 11 13:55	5° 8 59'56		morning rise	10144 Apr 19 10:28	22° Y 29'31	
desc. node	10143 May 21 22:03	11° 8 55'23		direct	10144 Apr 24 07:58	20° Y ′23'34	
morning max el	10143 May 22 13:23	12° 8 33'31	23°58'17	morning max el	10144 May 04 00:31	26° Y ′06′06	22°28'41
morning max or	10143 Jun 05 13:53	0°Ⅱ	25 50 17	desc. node	10144 May 07 18:58	0° 8 14'08	22 20 11
	10143 Jun 24 23:57	0°©		desc. node	•	_	
					10144 May 07 14:09	0° ∀	
morning set	10143 Jun 27 00:02	3°524'22	1 20402 177	•	10144 May 29 02:25	0°II	
max. Earth dist.	10143 Jun 30 18:23	9° © 58'42	1.38402 AU	morning set	10144 Jun 06 17:46	13° Ⅱ 40′28	
				max. Earth dist.	10144 Jun 11 16:21	21° Ⅱ 52'56	1.40677 AU
superior conj	10143 Jul 08 01:56	23° © 25'19	-1°02'12		10144 Jun 16 09:22	0 \circ	
minimum elong	10143 Jul 08 06:02	23° 5 44'48	1°01'56				
	10143 Jul 11 12:06	$0^{\circ}\Omega$		superior conj	10144 Jun 19 11:25	5° © 28'52	-1°33'45
asc. node	10143 Jul 14 21:02	6° Ω 36′05		minimum elong	10144 Jun 19 17:25	5°955'53	1°33'28
evening rise	10143 Jul 17 01:18	10° Ω 53'09		evening rise	10144 Jun 29 15:03	24° © 17'12	
	10143 Jul 27 13:35	0° m)		asc. node	10144 Jun 30 18:00	26°\$23'47	
evening max el	10143 Aug 02 10:00	-	18°57'07	200. 110de	10144 Jul 02 16:19	0°Ω	
•	•		10 5/0/	ovenina ma1			10021110
retrograde	10143 Aug 11 01:50	11° Mp 49'21		evening max el	10144 Jul 15 15:39		18°21'19
evening set	10143 Aug 12 23:31	11° Tp 37'39		retrograde	10144 Jul 23 02:06	23° Ω 41'43	
desc. node	10143 Aug 17 20:54	9° m/35'26		evening set	10144 Jul 25 06:09	23° Ω 23'26	
inferior conj	10143 Aug 21 06:17	7° m 20'55		inferior conj	10144 Aug 01 17:27	18° Ω 46'43	0°36'28
minimum elong	10143 Aug 21 03:36	7° m 25'39	1°02'14	minimum elong	10144 Aug 01 18:42	18° Ω 44'08	0°35'42
min. Earth dist.	10143 Aug 24 05:48	5° m 15'55	0.56499 AU	desc. node	10144 Aug 03 18:07	17° Ω 06′01	
morning rise	10143 Aug 29 04:29	2°m/28'02		min. Earth dist.	10144 Aug 05 02:08	16° Ω 01'48	0.58472 AU
direct	10143 Sep 03 15:33	1° m/ 17'23		morning rise	10144 Aug 09 03:45	13° Ω 17'59	
morning max el	10143 Sep 17 21:12	8° m) 36'51	26°03'48	direct	10144 Aug 15 07:23	11° Ω 37'49	
	10143 Oct 03 21:59	0∘ ⊽		morning max el	10144 Aug 29 16:32	19° Ω 21'21	27°16'22

	10144 Sep 07 17:38	0° m/y			10145 Aug 10 22:39	0°Ω	
	10144 Sep 25 13:58	0∘ ⊽		morning max el	10145 Aug 11 18:41	0° Ω 48'42	27°53'00
asc. node	10144 Sep 26 18:11	2° £ 22'12			10145 Sep 01 21:57	0° m)	_, _,
morning set	10144 Sep 29 09:16	7° - 49'36		morning set	10145 Sep 13 13:29	22° m/07'03	
S	ī			asc. node	10145 Sep 13 15:02	22° m) 15'03	
superior conj	10144 Oct 06 08:50	23° ჲ 05'22	1°22'57		10145 Sep 17 06:37	0∘ <u>⊽</u>	
minimum elong	10144 Oct 06 06:46	22° ჲ 53'54	1°22'50	max. Earth dist.	10145 Sep 19 12:22	4° ჲ 53'28	1.31641 AU
max. Earth dist.	10144 Oct 06 03:50	22° ॒ 37'32	1.31487 AU		-		
	10144 Oct 09 11:32	0° M		superior conj	10145 Sep 20 19:48	7° ≏ 46'52	1°06'35
evening rise	10144 Oct 13 03:14	7°M56'37		minimum elong	10145 Sep 20 17:34	7° ≏ 34'30	1°06'14
	10144 Oct 24 12:11	0° ∡ ¹		evening rise	10145 Sep 27 13:20	22° ₽ 34'27	
desc. node	10144 Oct 30 16:04	9° ∡ ¹52'48			10145 Oct 01 02:18	0° M	
evening max el	10144 Nov 11 16:54	24° ∡ ³36'56	26°35'40	desc. node	10145 Oct 17 13:15	27° M 47'29	
	10144 Nov 19 00:18	0°ප			10145 Oct 19 07:06	0° ∡ ¹	
retrograde	10144 Nov 25 15:15	1° る 44'20		evening max el	10145 Oct 24 10:31	5° ∡ ³36′17	25°20'06
evening set	10144 Dec 02 07:51	29° ₹ 53'05		retrograde	10145 Nov 07 07:44	12° ∡ ³35'32	
	10144 Dec 02 02:39	30°Ŗ ⋌ ¹		evening set	10145 Nov 13 04:48	11° ∡ 16'36	
min. Earth dist.	10144 Dec 06 06:45	27° ∡ 17'18	0.59365 AU	min. Earth dist.	10145 Nov 17 22:39	8° ∡ ³37′08	0.57352 AU
inferior conj	10144 Dec 09 11:09	24° ∡ ⁴48'49		inferior conj	10145 Nov 20 20:01	6° ₹ ¹39'58	
minimum elong	10144 Dec 09 18:57	24° ⋌ ³33'35	4°14'17	minimum elong	10145 Nov 21 02:35	6° ∡ ¹28'49 −	5°14'55
morning rise	10144 Dec 17 08:42	20° ∡ 12'32		morning rise	10145 Nov 29 02:41	2° ∡ ¹25'57	
direct	10144 Dec 19 12:17	19° ∡ 56′00		direct	10145 Dec 01 10:42	2° ⋌ ¹09'44	
asc. node	10144 Dec 23 18:05	21° × 04'03		morning max el	10145 Dec 10 10:24	6° ₹ ′29′13	19°01'48
morning max el	10144 Dec 27 07:49	23° ∡ ¹46'55	18°16'30	asc. node	10145 Dec 10 15:06	6° ⋌ ¹40'40	
	10145 Jan 01 08:12	0°る			10145 Dec 25 09:55	0°る	
morning set	10145 Jan 12 02:04	18°る52'41		morning set	10145 Dec 27 01:17	3° る 13'25	
	10145 Jan 17 23:24	0° ≈			10146 I 04 00:42	100=22(152	1007107
	10145 I 21 10:41	(00.002141	0920104	superior conj	10146 Jan 04 09:43	19°る36'53 19°る51'54	1°06'06 1°06'07
superior conj	10145 Jan 21 10:41	6°≈23'41	0°39'04	minimum elong	10146 Jan 04 12:52	19° ⊘ 51′54 0° ≈	1-060/
minimum elong desc. node	10145 Jan 21 13:21 10145 Jan 26 15:13	6°≈35'49 15°≈37'21	0°39'02	max. Earth dist.	10146 Jan 09 23:12 10146 Jan 11 07:10	0°≈ 2°≈24'04	1.38910 AU
max. Earth dist.	10145 Jan 29 00:50	13 ≈3721 19°≈44'56	1.41087 AU	desc. node	10146 Jan 13 12:07	2 ≈24 04 6°≈18'18	1.38910 AU
evening rise	10145 Feb 02 17:24	27°≈33'54	1.41087 AU	evening rise	10146 Jan 15 03:10	9°≈07'31	
evening rise	10145 Feb 04 05:24	0° ∺		evening rise	10146 Jan 28 02:39	0° ¥	
	10145 Feb 24 08:59	0° Υ		evening max el	10146 Feb 19 09:35	28° ¥ 55'31	24°34'03
evening max el	10145 Mar 08 19:49	15°Υ06'56	23°14'26	evening max er	10146 Feb 20 12:24	0°Υ	24 34 03
retrograde	10145 Mar 19 06:55	21° Y ′18'06	25 1120	retrograde	10146 Mar 02 22:38	5° Υ 40'10	
asc. node	10145 Mar 21 16:30	20° Υ ′50'18		evening set	10146 Mar 08 10:49	3° Y '22'17	
evening set	10145 Mar 24 06:59	19° Y °12'58		asc. node	10146 Mar 08 13:42	3° Y 16'04	
min. Earth dist.	10145 Mar 29 05:03	13° Y °25'26	0.68549 AU		10146 Mar 11 14:41	30° ₽ ₩	
inferior conj	10145 Mar 29 16:19	12° Ƴ 46'36	2°19'06	min. Earth dist.	10146 Mar 13 00:47	28°) €09'46	0.68124 AU
minimum elong	10145 Mar 29 14:07	12° Y ′54'12	2°18'26	inferior conj	10146 Mar 13 23:50	26° ¥ 52'49	1°40'13
morning rise	10145 Apr 03 21:10	6° Y 40′05		minimum elong	10146 Mar 13 21:50	26° ¥ 59'30	1°39'36
direct	10145 Apr 08 05:10	4° Y 55'44		morning rise	10146 Mar 19 08:59	20°) 53′32	
morning max el	10145 Apr 16 16:26	9° Ƴ 48'11	21°05'08	direct	10146 Mar 23 04:13	19°) (30′44	
desc. node	10145 Apr 24 15:49	19° Ƴ 17'54		morning max el	10146 Mar 30 15:43	23°) 41′49	19°53'25
	10145 May 02 07:44	0° 8			10146 Apr 05 01:57	0° Y	
morning set	10145 May 17 09:11	22° 8 45'41		desc. node	10146 Apr 11 12:37	8° Y 54'19	
	10145 May 21 22:43	Π °0			10146 Apr 25 13:57	0° 8	
max. Earth dist.	10145 May 24 19:49	4° Ⅱ 39'24	1.42748 AU	morning set	10146 Apr 26 08:21	1° 8 10'48	
		_		max. Earth dist.	10146 May 07 06:40	18° 8 16'04	1.44373 AU
superior conj	10145 May 31 23:39	16° ∐ 34'57					
minimum elong	10145 Jun 01 05:32	16° Ⅱ 59'58	1°59'14	superior conj	10146 May 12 11:31	26° 8 37'26	
	10145 Jun 08 16:37	0°€		minimum elong	10146 May 12 13:11	26° 8 44'11	2°12'40
evening rise	10145 Jun 12 14:50	7°501'00			10146 May 14 13:13	0°П	
asc. node	10145 Jun 17 15:01	15°\$56'36		evening rise	10146 May 25 19:43	18° Ⅱ 52'40	
	10145 Jun 26 13:18	0°N	10005121	,	10146 Jun 01 08:53	0°©	
evening max el	10145 Jun 29 03:12	2° Ω 55'42	18°05'31	asc. node	10146 Jun 04 12:03	5° © 08'04 16° © 14'29	10000142
retrograde	10145 Jul 05 19:32 10145 Jul 08 07:28	6° Ω 20'31 5° Ω 52'00		evening max el	10146 Jun 12 16:56	16°9014'29 19°9034'58	18°08'43
evening set inferior conj	10145 Jul 08 07:28 10145 Jul 15 01:05	0° Ω 55'13	1°50'35	retrograde evening set	10146 Jun 19 01:53 10146 Jun 21 21:41	19°934'38 18°953'37	
minimum elong	10145 Jul 15 01:05	$0^{\circ} 0.373$	1°30'33 1°49'21	inferior conj	10146 Jun 21 21:41 10146 Jun 28 01:21	13°938'06	2°39'35
minimum ciong	10145 Jul 16 00:06	0 8€ 46 37	1 7/41	minimum elong	10146 Jun 28 01:21 10146 Jun 28 03:54	13°931'10	2°38'34
min. Earth dist.	10145 Jul 18 06:16	27°952'30	0.60724 AU	min. Earth dist.	10146 Jun 30 19:15	10°9540'54	0.62947 AU
morning rise	10145 Jul 21 21:31	27 \$3230 25°\$00'11	0.00/27 AU	morning rise	10146 Jul 04 08:24	7°927'13	0.02771 AU
desc. node	10145 Jul 21 15:17	25°50011		desc. node	10146 Jul 08 12:23	5°9517'13	
direct	10145 Jul 28 11:45	22°950'51		direct	10146 Jul 11 01:51	4°955'50	
		1				. 20000	

morning max el	10146 Jul 25 02:05 10146 Aug 07 16:46 10146 Aug 25 09:47	12°€58'23 0°Ω 0°™	27°51'20	morning max el	10147 Jul 07 12:24 10147 Jul 11 10:41 10147 Aug 01 05:43	25°∏43'08 0°© 0°Ω	27°14'52
morning set	10146 Aug 28 11:12	6° m) 02'40		morning set	10147 Aug 11 23:46	19° Ω 29'38	
asc. node	10146 Aug 31 11:52	12°M) 16'08		max. Earth dist.	10147 Aug 16 12:00	28° Ω 30′11	1.33435 AU
max. Earth dist.	10146 Sep 02 16:17	16° m 53'31	1.32290 AU		10147 Aug 17 05:28	0° m	
	10146 0 05 04 02	220m.1701	0045112	asc. node	10147 Aug 18 08:43	2° Mp 21'22	
superior conj minimum elong	10146 Sep 05 04:02 10146 Sep 05 02:08	22° Mp 16'01 22° Mp 05'42	0°45'12 0°44'44	superior conj	10147 Aug 20 07:27	6° m) 27'05	0°19'14
minimum ciong	10146 Sep 08 16:56	0° ⊽	0 44 44	minimum elong	10147 Aug 20 07:27 10147 Aug 20 06:29	6° m) 22'02	0°18'50
evening rise	10146 Sep 12 00:48	ი_ 7° ჲ 13'07		evening rise	10147 Aug 27 11:45	21° Mp 47'14	0 1000
Č	10146 Sep 23 20:18	0° M		C	10147 Aug 31 11:08	0∘ ⊽	
desc. node	10146 Oct 04 10:27	14°M25'28		evening max el	10147 Sep 17 10:35	26° ≏ 04'13	22°04'19
evening max el	10146 Oct 05 21:57	15°M55'13	23°44'01	desc. node	10147 Sep 21 07:41	29° ≏ 19'28	
retrograde	10146 Oct 19 11:19	22°M41'23			10147 Sep 22 08:27	0° M ₊	
evening set	10146 Oct 24 01:13	21°M.55'41	0.55710.433	retrograde	10147 Sep 30 03:31	2°M23'45	
min. Earth dist.	10146 Oct 30 08:15	18°M54'10	0.55719 AU	evening set	10147 Oct 03 06:11	2°M02'11	
inferior conj	10146 Nov 01 08:32	17°M42'06 17°M41'14		min. Earth dist.	10147 Oct 08 14:37 10147 Oct 11 15:30	30° ₹ Ω 28° Ω 21'48	0.54768 AU
minimum elong morning rise	10146 Nov 01 09:06 10146 Nov 09 18:53	17 IIL41 14 13°ML47'19	3 43 30	inferior conj	10147 Oct 11 15.30 10147 Oct 12 05:09	28° 2 02'40	
direct	10146 Nov 12 13:53	13°M27'50		minimum elong	10147 Oct 12 03:03	28° ⊆ 12'54	
morning max el	10146 Nov 23 00:41	18°M24'20	20°09'53	morning rise	10147 Oct 20 15:01	24° £ 15'30	
asc. node	10146 Nov 27 12:04	23°M30'33		direct	10147 Oct 24 01:39	23° ≏ 49'18	
	10146 Dec 01 20:19	0° ∡ ¹		morning max el	10147 Nov 05 01:31	29° ≏ 29'04	21°39'34
morning set	10146 Dec 11 06:59	17° ∡ °50'36			10147 Nov 05 14:27	0° M	
	10146 Dec 17 05:17	5°0		asc. node	10147 Nov 14 09:01	11°ML18'06	
		_			10147 Nov 24 10:30	0° ∡ ¹	
superior conj	10146 Dec 18 22:32		1°24'51	morning set	10147 Nov 25 16:35	2° ∡ ¹36′24	
minimum elong	10146 Dec 19 01:02	3°る41'09	1°25'03		101477 02 21 07	170 74656	1025155
max. Earth dist.	10146 Dec 24 14:09 10146 Dec 28 09:04	14°る31'49 21°る33'29	1.36753 AU	superior conj minimum elong	10147 Dec 02 21:07 10147 Dec 02 22:30	17° ∡ ¹46'56 17° ∡ ¹54'09	1°35'55 1°36'17
evening rise desc. node	10146 Dec 28 09:04 10146 Dec 31 09:04	26° る 53'51		max. Earth dist.	10147 Dec 02 22:30 10147 Dec 07 02:04	26° ₹ 25'06	1.34836 AU
desc. node	10140 Dec 31 09:04 10147 Jan 02 04:09	20 ⊙ 33 31		max. Lattii dist.	10147 Dec 07 02:04 10147 Dec 08 21:18	20×2500	1.54650 AU
	10147 Jan 22 00:06	0° ∀		evening rise	10147 Dec 11 07:33	4° ろ 42'06	
evening max el	10147 Feb 01 22:59	12°) 45′17	25°46'32	desc. node	10147 Dec 18 06:03	17° ට 19'01	
retrograde	10147 Feb 14 09:37	19° ¥ 52'57			10147 Dec 25 23:41	0° ≈	
evening set	10147 Feb 20 10:04	17° ¥ 24'57		evening max el	10148 Jan 15 12:22	26° ≈ 28'40	26°44'40
asc. node	10147 Feb 23 10:53	14° ¥ 19'32			10148 Jan 19 13:52	0° ∀	
min. Earth dist.	10147 Feb 24 17:12		0.67295 AU	retrograde	10148 Jan 28 15:12	3° ¥ 48'41	
inferior conj	10147 Feb 26 04:01	10°) 57'16		evening set	10148 Feb 04 02:54	1°) 14'49	
minimum elong	10147 Feb 26 02:45	11° 米 01'15 5° 米 06'59	0°52'03	i. Dauda diad	10148 Feb 05 12:54	30°R≈ 27°≈11'41	0.0001 ATT
morning rise direct	10147 Mar 03 19:58 10147 Mar 07 03:34	4° ∺ 04'00		min. Earth dist. inferior conj	10148 Feb 08 04:01 10148 Feb 10 02:43	2/°≈11'41' 24°≈54'32	0.66081 AU
morning max el	10147 Mar 13 22:50	7°) (46'14	18°56'49	minimum elong	10148 Feb 10 02:43	24°≈54'12	0°04'04
greatest brilliancy	10147 Mar 27 20:08	26° ¥ 32'29	-0.8m	transit middle	10148 Feb 10 02:50	24°≈54'12	0°04'04
desc. node	10147 Mar 29 09:25	28° ¥ 55′02		transit begin	10148 Feb 09 23:59	25° ≈ 02'35	
	10147 Mar 30 02:20	0° Y		transit end	10148 Feb 10 05:40	24° ≈ 45'51	
morning set	10147 Apr 05 14:16	10° Y ′03'34		asc. node	10148 Feb 10 08:03	24° ≈ 38'51	
	10147 Apr 18 09:22	0° 8		morning rise	10148 Feb 16 03:52	19° ≈ 15′25	
max. Earth dist.	10147 Apr 19 23:28	2° 8 29'19	1.45367 AU	direct	10148 Feb 19 01:14	18° ≈ 29'14	
	10147 4 22 01 55	50 47120	2007101	morning max el	10148 Feb 25 12:09	21°≈55'16	18°16'33
superior conj minimum elong	10147 Apr 22 01:55 10147 Apr 21 20:15	5° 8 47'30 5° 8 25'13		desc. node	10148 Mar 02 23:14 10148 Mar 15 06:13	0° ∺ 19° ∺ 12'54	
evening rise	10147 Apr 21 20:13	29° 8 45'46	2 07 00	morning set	10148 Mar 15 21:26	20°\(\)12'58	
evening rise	10147 May 07 05:11	0°II		morning set	10148 Mar 22 00:08	0°Υ	
asc. node	10147 May 22 09:08	23° I [51'17				•	
evening max el	10147 May 27 05:42	29° Ⅱ 46'10	18°30'09	superior conj	10148 Mar 31 07:47	14° Y 41'40	-1°41'41
	10147 May 27 11:19	0ං ම		minimum elong	10148 Mar 30 22:14		1°40'52
retrograde	10147 Jun 02 16:58	3°5516'21		max. Earth dist.	10148 Apr 01 19:00	16° Ƴ 59'30	1.45630 AU
evening set	10147 Jun 05 20:33	2°520'41			10148 Apr 10 02:57	0° 8	
	10147 Jun 08 17:58	30°RⅡ	200515	evening rise	10148 Apr 16 08:17	9° 8 43'08	0.0
inferior conj	10147 Jun 11 14:12	26°∏48'04	3°07'27	greatest brilliancy	10148 Apr 27 09:10	26° 8 52'04	-0.8m
minimum elong min. Earth dist.	10147 Jun 11 15:45 10147 Jun 13 17:32	26° Ⅱ 43'26 24° Ⅱ 15'02	3°06'48 0.64918 AU	asc. node	10148 Apr 29 10:53 10148 May 08 06:14	0° Ⅱ 11° Ⅱ 56'36	
min. Earth dist.	10147 Jun 13 17:32 10147 Jun 17 10:00	24° Ⅲ 13′02 20° Ⅲ 29'33	0.04710 AU	evening max el	10148 May 09 15:01	11°Щ36'36 13°Щ24'12	19°08'58
direct	10147 Jun 24 00:03	20 H 2933		retrograde	10148 May 16 13:08	13 II 24 12 17° II 16'46	1, 00.50
desc. node	10147 Jun 25 09:27	17° Ⅲ 53'13		evening set	10148 May 20 00:49	16° Ⅱ 05'58	
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	1014034 25 12 02	1001110100	2010/22		1011031 01 00 00	00 T 0.401	
inferior conj	10148 May 25 12:02	10° Ⅱ 18′00		evening set	10149 May 04 08:08	0° Ⅱ 04'31	
minimum elong	10148 May 25 12:22	10° Ⅱ 16'55	3°17'58		10149 May 04 10:32	30° ₹ 8	
min. Earth dist.	10148 May 27 00:17	8° Ⅱ 21'18	0.66510 AU	inferior conj	10149 May 09 15:55	24° 8 02'54	3°15'40
morning rise	10148 May 30 23:24	3° Ⅱ 57'28		minimum elong	10149 May 09 15:08	24° 8 05'31	3°15'16
direct	10148 Jun 06 05:11	1° Ⅱ 14′05		min. Earth dist.	10149 May 10 13:43	22° 8 49'04	0.67667 AU
desc. node	10148 Jun 11 06:29	2° Ⅱ 40'48		morning rise	10149 May 14 21:50	17° 8 43'59	
morning max el	10148 Jun 18 23:07	8° Ⅱ 50'48	26°11'01	direct	10149 May 20 16:19	15° 8 09'48	
	10148 Jul 05 13:02	0°ಅ		desc. node	10149 May 29 03:28	19° 8 10'42	
	10148 Jul 23 17:36	$0^{\circ}\Omega$		morning max el	10149 Jun 01 08:50	22° 8 10'44	24°49'14
morning set	10148 Jul 24 23:44	2° Ω 18'56		Ü	10149 Jun 08 04:47	0° I I	
max. Earth dist.	10148 Jul 28 21:11	9° Ω 43'00	1.35060 AU		10149 Jun 28 19:57	0°ಅ	
max. Earth dist.	10110341 20 21.11	y 00 13 00	1.55000110	morning set	10149 Jul 07 06:36	14°9518'34	
superior conj	10148 Aug 03 03:35	20° Ω 13'26	0°10'40	max. Earth dist.	10149 Jul 10 20:51	20°546'48	1.37102 AU
minimum elong	•	20°Ω16'39		max. Lartii dist.	10149 Jul 15 18:38	20 3 40 40	1.57102 AC
Č	10148 Aug 03 04:13	$19^{\circ}\Omega 53'49$	0 10 30		10149 Jul 13 16.36	0 86	
behind sun begin	10148 Aug 02 23:44				10140 1 1 17 12 22	20 02707	00.42100
behind sun end	10148 Aug 03 08:41	20° Ω 39'32		superior conj	10149 Jul 17 13:22	3° Ω 27'07	
asc. node	10148 Aug 04 05:36	22° Ω 26'48		minimum elong	10149 Jul 17 16:09	3° Ω 40'38	0°43'01
	10148 Aug 07 20:55	0° m)		asc. node	10149 Jul 22 02:30	12° Ω 28'15	
evening rise	10148 Aug 10 20:11	6° Mp 10'53		evening rise	10149 Jul 25 23:44	20° Ω 17'14	
	10148 Aug 23 22:00	0∘ ⊽			10149 Jul 30 22:37	0° m	
evening max el	10148 Aug 29 09:24	6° ≙ 39'43	20°36'14	evening max el	10149 Aug 11 21:57	17° m 59'37	19°27'18
desc. node	10148 Sep 07 04:54	11° ≏ 59'32		retrograde	10149 Aug 21 11:19	22° m 44'01	
retrograde	10148 Sep 09 15:42	12° ≙ 15′00		evening set	10149 Aug 23 07:26	22° m 34'15	
evening set	10148 Sep 11 18:17	12° ♀ 04'05		desc. node	10149 Aug 25 02:09	22° m 07'21	
inferior conj	10148 Sep 20 21:43	8° ഫ 07'37	-4°00'02	inferior conj	10149 Sep 01 00:27	18° m 28′05	-2°08'33
minimum elong	10148 Sep 20 12:00	8° £ 21'36	3°57'05	minimum elong	10149 Aug 31 18:41	18° m) 37'21	2°06'29
min. Earth dist.	10148 Sep 22 00:05	7° £ 29'34	0.54716 AU	min. Earth dist.	10149 Sep 03 11:53	16° m 52'39	0.55613 AU
morning rise	10148 Sep 29 05:27	4° £ 07'20	0.5 17 10 110	morning rise	10149 Sep 09 03:26	13° m 56'45	0.55015710
direct	10148 Oct 03 09:57	3° <u>₽</u> 29'42		direct	10149 Sep 14 03:38	13° M) 00'07	
		9° £ 54'08	22224101		-		25900120
morning max el	10148 Oct 16 16:17		23°24'01	morning max el	10149 Sep 28 03:48	20°1100242 0° ₽	25°09'30
asc. node	10148 Oct 31 05:56	29° Ω 49'54		,	10149 Oct 06 15:42	-	
	10148 Oct 31 08:12	0°M		asc. node	10149 Oct 18 02:50	18° ≙ 54'06	
morning set	10148 Nov 09 04:07	17°M25'20			10149 Oct 23 15:04	0° M	
=		_					
-	10148 Nov 14 23:54	0° ∡ ¹		morning set	10149 Oct 24 15:48	2°M11'18	
-		0° ∡ ¹		C			
superior conj	10148 Nov 14 23:54 10148 Nov 16 02:24	0°⊀ 2°⊀23'08	1°40'04	morning set superior conj	10149 Oct 24 15:48 10149 Oct 31 11:48	2°M11'18 17°M08'23	1°37'56
superior conj minimum elong			1°40'04 1°40'27	C			1°37'56 1°38'12
	10148 Nov 16 02:24	2° ⊀ ²23'08		superior conj	10149 Oct 31 11:48	17° M 08'23	
minimum elong	10148 Nov 16 02:24 10148 Nov 16 02:33	2° ⊀ 23'08 2° ≮ 23'59	1°40'27	superior conj minimum elong	10149 Oct 31 11:48 10149 Oct 31 10:52	17°M08'23 17°M03'14	1°38'12
minimum elong max. Earth dist.	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47	2° ₹23'08 2° ₹23'59 8° ₹22'50	1°40'27	superior conj minimum elong	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58	17°M08'23 17°M03'14 20°M32'11	1°38'12
minimum elong max. Earth dist.	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02	2° \$\times 23'08 2° \$\times 23'59 8° \$\times 22'50 18° \$\times 24'46	1°40'27	superior conj minimum elong max. Earth dist.	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54	17°M08'23 17°M03'14 20°M32'11 0°×	1°38'12
minimum elong max. Earth dist. evening rise	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06	2°♂23'08 2°♂23'59 8°♂22'50 18°♂24'46 0°♂	1°40'27	superior conj minimum elong max. Earth dist.	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12	17° M.08'23 17° M.03'14 20° M.32'11 0° \$\stacksquare{A}\$ 2° \$\stacksquare{A}\$31'44 27° \$\stacksquare{A}\$14'54	1°38'12
minimum elong max. Earth dist. evening rise desc. node	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28	2° ₹23'08 2° ₹23'59 8° ₹22'50 18° ₹24'46 0° ₹ 7° ₹28'36 0° ≈	1°40'27 1.33306 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05	17°M08'23 17°M03'14 20°M32'11 0° ₹ 2° ₹31'44 27° ₹14'54 0° ₹	1°38'12 1.32228 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10148 Dec 28 01:13	2° \$\mathbb{Z}23'08 2° \$\mathbb{Z}23'59 8° \$\mathbb{Z}22'50 18° \$\mathbb{Z}24'46 0° \$\mathbb{Z} 7° \$\mathbb{Z}28'36 0° \$\approx 9° \$\approx 56'25	1°40'27 1.33306 AU	superior conj minimum elong max. Earth dist.	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53	17° M.08'23 17° M.03'14 20° M.32'11 0° ⊀ 2° ₹31'44 27° ₹14'54 0° ₹ 22° ₹56'25	1°38'12 1.32228 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10148 Dec 28 01:13 10149 Jan 10 14:45	2° \$\frac{7}{23'08} 2° \$\frac{7}{23'59} 8° \$\frac{7}{22'50} 18° \$\frac{7}{24'46} 0° \$\frac{7}{0} \$\frac{7}{28'36} 0° \$\infty\$ 9° \$\infty\$56'25 17° \$\infty\$19'12	1°40'27 1.33306 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53 10149 Dec 21 23:33	17° M.08'23 17° M.03'14 20° M.32'11 0° ⊀ 2° ₹ 31'44 27° ₹ 14'54 0° ₹ 22° ₹ 56'25 0° ≈	1°38'12 1.32228 AU
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10149 Jan 10 14:45 10149 Jan 17 11:07 10149 Jan 21 07:19	2° ₹23'08 2° ₹23'59 8° ₹22'50 18° ₹24'46 0° ₹ 7° ₹28'36 0° ≈ 9° ≈56'25 17° ≈19'12 14° ≈45'55 11° ≈15'17	1°40'27 1.33306 AU 27°21'16 0.64515 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53 10149 Dec 21 23:33 10149 Dec 24 07:17 10149 Dec 26 13:38	17° M.08'23 17° M.03'14 20° M.32'11 0° ౘ 2° ౘ31'44 27° ౘ14'54 0° ౘ 22° ౘ56'25 0° ඎ 0° ඎ14'44	1°38'12 1.32228 AU
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10148 Dec 28 01:13 10149 Jan 10 14:45 10149 Jan 17 11:07 10149 Jan 21 07:19 10149 Jan 23 17:34 10149 Jan 23 19:42	2° ₹23'08 2° ₹23'59 8° ₹22'50 18° ₹24'46 0° ₹ 7° ₹28'36 0° ≈ 9° ≈56'25 17° ≈19'12 14° ≈45'55 11° ≈15'17 8° ≈39'17 8° ≈33'33	1°40'27 1.33306 AU 27°21'16 0.64515 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53 10149 Dec 21 23:33 10149 Dec 24 07:17 10149 Dec 26 13:38 10149 Dec 31 07:57 10150 Jan 04 01:13	17°M08'23 17°M03'14 20°M32'11 0°ダ 2°ダ31'44 27°ダ14'54 0°♂ 22°♂56'25 0°≈ 0°≈14'44 30°R♂ 27°♂50'28 24°♂48'11	1°38'12 1.32228 AU 27°29'48 0.62650 AU
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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	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10148 Dec 28 01:13 10149 Jan 10 14:45 10149 Jan 21 07:19 10149 Jan 23 17:34 10149 Jan 23 19:42 10149 Jan 23 19:42 10149 Jan 30 06:02 10149 Feb 01 18:56 10149 Feb 08 05:04 10149 Feb 24 07:27 10149 Feb 25 09:40 10149 Mar 10 23:52 10149 Mar 10 23:52 10149 Mar 10 16:58 10149 Mar 11 15:42 10149 Mar 12 22:41 10149 Apr 03 02:02 10149 Apr 03 02:02	2° \$\times 23'08 2° \$\times 23'59 8° \$\times 22'50 18° \$\times 22'4'46 0° \$\times 7° \$\times 28'36 0° \$\infty 9° \$\infty 56'25 17° \$\infty 19'12 14° \$\infty 45'55 11° \$\infty 13'17 8° \$\infty 39'17 8° \$\infty 40'40 6° \$\infty 10'30 23° \$\times 42'52 0° \$\times 10' \$\ti	1°40'27 1.33306 AU 27°21'16 0.64515 AU -1°09'29 1°08'13 17°53'11 -1°02'33 1°01'32 1.45149 AU -0.6m	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 asc. node direct morning max el morning set desc. node superior conj minimum elong	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53 10149 Dec 21 23:33 10149 Dec 24 07:17 10149 Dec 26 13:38 10149 Dec 31 07:57 10150 Jan 04 01:13 10150 Jan 06 21:41 10150 Jan 07 02:20 10150 Jan 13 23:01 10150 Jan 14 02:21 10150 Jan 16 05:44 10150 Jan 22 22:29 10150 Jan 30 09:57 10150 Feb 16 23:52 10150 Feb 16 18:58 10150 Feb 19 14:34 10150 Feb 19 12:38 10150 Feb 26 07:17 10150 Mar 06 11:13	17°M08'23 17°M03'14 20°M32'11 0°ズ 2°ズ31'44 27°ズ14'54 0°云 22°云56'25 0°※ 0°※14'44 30°R云 27°云50'28 24°云48'11 22°云04'09 21°云52'59 16°云55'05 16°云55'05 16°云52'18 16°云31'11 19°云56'43 0°※ 14°※35'00 0°光20'49 0°光 4°光45'02 4°光45'02 4°光45'02 4°光45'02 4°光45'54 15°光43'48 28°光35'26	1°38'12 1.32228 AU 27°29'48 0.62650 AU -2°21'16 2°19'00 17°47'21
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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	10148 Nov 16 02:24 10148 Nov 18 21:47 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10148 Dec 28 01:13 10149 Jan 10 14:45 10149 Jan 21 07:19 10149 Jan 23 17:34 10149 Jan 23 17:34 10149 Jan 23 19:42 10149 Jan 23 06:02 10149 Feb 01 18:56 10149 Feb 01 18:56 10149 Feb 24 07:27 10149 Feb 25 09:40 10149 Mar 10 23:52 10149 Mar 10 16:58 10149 Mar 10 16:58 10149 Mar 10 16:58 10149 Mar 10 16:58 10149 Mar 10 23:52 10149 Mar 10 16:58 10149 Mar 10 23:52 10149 Mar 10 23:52 10149 Mar 10 23:52 10149 Mar 10 16:58 10149 Mar 10 23:52 10149 Mar 10 23:52 10149 Mar 10 23:52 10149 Mar 10 16:58 10149 Mar 10 23:52	2° \$\times 23'08 2° \$\times 23'59 8° \$\times 22'50 18° \$\times 22'50 18° \$\times 22'4'46 0° \$\times 9° \times 56'25 17° \times 19'12 14° \times 45'55 11° \times 15'17 8° \times 39'17 8° \times 33'33 5° \times 12'32 3° \times 13'46 2° \times 40'40 6° \times 01'38 0° \$\times 10' \$\times 49'54 9° \$\times 42'58 24° \$\times 10'30 23° \$\times 42'52 0° \$\times 10' \$\times 70'709 0° \$\times 11° \$\times 37'27 27° \$\times 05'26 29° \$\times 12'42	1°40'27 1.33306 AU 27°21'16 0.64515 AU -1°09'29 1°08'13 17°53'11 -1°02'33 1°01'32 1.45149 AU -0.6m	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 asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53 10149 Dec 21 23:33 10149 Dec 24 07:17 10149 Dec 26 13:38 10149 Dec 31 07:57 10150 Jan 04 01:13 10150 Jan 04 01:13 10150 Jan 07 02:20 10150 Jan 13 23:01 10150 Jan 14 02:21 10150 Jan 16 05:44 10150 Jan 22 22:29 10150 Jan 30 09:57 10150 Feb 16 23:52 10150 Feb 16 18:58 10150 Feb 19 12:38 10150 Feb 19 12:38 10150 Feb 26 07:17 10150 Mar 06 11:13 10150 Mar 07 09:09 10150 Mar 07 09:09 10150 Mar 07 09:09	17°M08'23 17°M03'14 20°M32'11 0°ズ 2°ズ31'44 27°ズ14'54 0°云 22°♂56'25 0°≈ 0°≈14'44 30°R♂ 27°♂50'28 24°♂48'11 22°♂04'09 21°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'05 16°♂55'11 19°♂56'43 0°≈ 14°≈35'00 0°升20'49 0°升 4°升45'02 4°升36'54 15°升43'48 28°升35'26 0°℃ 0°엉	1°38'12 1.32228 AU 27°29'48 0.62650 AU -2°21'16 2°19'00 17°47'21 -0°19'31 0°19'00 1.43983 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 evening max el	10148 Nov 16 02:24 10148 Nov 16 02:33 10148 Nov 18 21:47 10148 Nov 23 19:02 10148 Nov 29 21:02 10148 Dec 04 03:06 10148 Dec 19 05:28 10148 Dec 28 01:13 10149 Jan 10 14:45 10149 Jan 21 07:19 10149 Jan 23 17:34 10149 Jan 23 17:34 10149 Jan 23 19:42 10149 Jan 23 19:42 10149 Jan 30 06:02 10149 Feb 01 18:56 10149 Feb 02 07:27 10149 Feb 24 07:27 10149 Feb 25 09:40 10149 Mar 10 23:52 10149 Mar 10 16:58 10149 Mar 10 16:58 10149 Mar 15 14:19 10149 Mar 26 22:41 10149 Apr 03 02:02 10149 Apr 10 21:24 10149 Apr 10 21:24	2° \$\times 23'08 2° \$\times 23'59 8° \$\times 22'50 18° \$\times 22'4'46 0° \$\times 7° \$\times 28'36 0° \$\infty 9° \$\infty 56'25 17° \$\infty 19'12 14° \$\infty 45'55 11° \$\infty 13'12 3° \$\infty 31'32 3° \$\infty 13'46 2° \$\infty 40'40 6° \$\infty 01'38 0° \$\times 1' \$\times 49'54 9° \$\times 42'58 24° \$\times 10'30 23° \$\times 42'52 0° \$\times 1'' \$\times 1''07'09 0° \$\times 11° \$\times 37'27 27° \$\times 05'26	1°40'27 1.33306 AU 27°21'16 0.64515 AU -1°09'29 1°08'13 17°53'11 -1°02'33 1°01'32 1.45149 AU -0.6m	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 asc. node direct morning max el morning set desc. node superior conj minimum elong morning set desc. node	10149 Oct 31 11:48 10149 Oct 31 10:52 10149 Nov 02 00:58 10149 Nov 06 10:54 10149 Nov 07 16:07 10149 Nov 21 00:12 10149 Nov 22 17:05 10149 Dec 10 11:53 10149 Dec 21 23:33 10149 Dec 24 07:17 10149 Dec 26 13:38 10149 Dec 31 07:57 10150 Jan 04 01:13 10150 Jan 06 21:41 10150 Jan 07 02:20 10150 Jan 13 23:01 10150 Jan 14 02:21 10150 Jan 16 05:44 10150 Jan 22 22:29 10150 Jan 30 09:57 10150 Feb 10 21:59 10150 Feb 16 23:52 10150 Feb 19 12:38 10150 Feb 19 12:38 10150 Feb 26 07:17 10150 Mar 06 11:13 10150 Mar 07 09:09	17° MO8'23 17° MO3'14 20° M32'11 0° ズ 2° ズ31'44 27° ズ14'54 0° 云 22° 云56'25 0° ※ 0° ※14'44 30° R云 27° 云50'28 24° 云48'11 22° 云04'09 21° 云52'59 16° 云55'05 16° 云52'18 16° 云31'11 19° 云56'43 0° ※ 14° ※35'00 0° 光20'49 0° 光 4° 光45'02 4° 光36'54 15° 光43'48 28° 光35'26 0° Υ	1°38'12 1.32228 AU 27°29'48 0.62650 AU -2°21'16 2°19'00 17°47'21

. 1	10150 4 14 10 05	150052142			10151 F 1 20 12 20	0° Ƴ	
retrograde	10150 Apr 14 10:05	15° 8 53'42			10151 Feb 28 12:28		22020116
evening set	10150 Apr 18 16:35	14° 8 11'50	2001122	evening max el	10151 Mar 19 12:03	24° Υ 32'45	22°28'16
inferior conj	10150 Apr 23 23:24	7° 8 58'36	3°01'32		10151 Mar 27 04:39	0°8	
minimum elong	10150 Apr 23 21:48	8° 8 04'11	3°01'03	retrograde	10151 Mar 29 06:58	0° 8 20'07	
min. Earth dist.	10150 Apr 24 07:43	7° 8 29'41	0.68365 AU	asc. node	10151 Mar 29 21:47	0° 8 18'15	
morning rise	10150 Apr 29 02:47	1° 8 43'32			10151 Mar 31 06:52	30° Ŗ ♈	
	10150 May 01 16:42	30° Ŗ ♈		evening set	10151 Apr 03 00:27	28° Y 23′03	
direct	10150 May 04 08:13	29° Y 25'46		inferior conj	10151 Apr 08 08:22	22° Y ′00′38	2°37'19
	10150 May 07 04:04	0° 8		minimum elong	10151 Apr 08 06:16	22° Y 07'57	2°36'41
morning max el	10150 May 14 18:27	5° 8 38'04	23°19'49	min. Earth dist.	10151 Apr 08 04:03	22° Y 15'43	0.68614 AU
desc. node	10150 May 16 00:25	6° 8 56'00		morning rise	10151 Apr 13 11:57	15° Y 50′52	
	10150 Jun 02 13:48	Π °0		direct	10151 Apr 18 03:45	13° Y 53'51	
morning set	10150 Jun 18 15:13	25° Ⅱ 15'37		morning max el	10151 Apr 27 07:07	19° Ƴ 13'45	21°51'58
	10150 Jun 21 10:11	0 \circ \odot		desc. node	10151 May 02 21:17	25° Ƴ 35′19	
max. Earth dist.	10150 Jun 22 17:23	2° © 14'45	1.39377 AU		10151 May 06 07:12	9° 8	
					10151 May 26 17:44	Π $^{\circ}0$	
superior conj	10150 Jun 30 09:04	15° © 59'42	-1°16'00	morning set	10151 May 29 21:20	4° Ⅱ 59'36	
minimum elong	10150 Jun 30 14:05	16° © 23'03	1°15'41	max. Earth dist.	10151 Jun 04 17:45	14° Ⅲ 32'23	1.41606 AU
	10150 Jul 07 18:00	$0^{\circ}\Omega$					
asc. node	10150 Jul 08 23:28	2° Ω 22'17		superior conj	10151 Jun 12 10:00	27° Ⅲ 39'43	-1°45'39
evening rise	10150 Jul 09 19:34	3° £ 59′20		minimum elong	10151 Jun 12 16:20	28° Ⅲ 07'31	1°45'26
	10150 Jul 25 20:43	0° m)			10151 Jun 13 17:49	0 ° \mathfrak{S}	
evening max el	10150 Jul 25 22:29	0° Mp 04′22	18°39'24	evening rise	10151 Jun 23 03:53	17° 5 07'15	
retrograde	10150 Aug 03 00:12	4° ™ 06'09		asc. node	10151 Jun 25 20:25	22° 5 04'01	
evening set	10150 Aug 05 00:23	3° m 52'03			10151 Jun 30 07:05	$0^{\circ}\Omega$	
desc. node	10150 Aug 11 23:21	0° mp 10′53		evening max el	10151 Jul 09 07:05	12° Ω 45'15	18°12'10
	10150 Aug 12 05:17	30°R€		retrograde	10151 Jul 16 08:17	16° Ω 19'16	
inferior conj	10150 Aug 12 22:54	29° Ω 27'09	-0°18'05	evening set	10151 Jul 18 15:45	15° Ω 56'54	
minimum elong	10150 Aug 12 22:10	29° Ω 28'31	0°18'03	inferior conj	10151 Jul 25 19:06	11° Ω 11'08	1°11'11
min. Earth dist.	10150 Aug 16 04:16	27° Ω 02'52		minimum elong	10151 Jul 25 21:15	11° Ω 06'22	1°10'05
morning rise	10150 Aug 20 16:30	24° Ω 18'34		min. Earth dist.	10151 Jul 29 03:24	8° Ω 16′02	0.59421 AU
direct	10150 Aug 26 11:28	22° Ω 55'34		desc. node	10151 Jul 29 20:33	7° Ω 41'03	
	10150 Sep 09 08:06	0° m)		morning rise	10151 Aug 01 23:36	5° Ω 30'03	
morning max el	10150 Sep 09 18:58	0° m) 25'58	26°38'33	direct	10151 Aug 08 08:35	3° Ω 37'18	
morning man or	10150 Sep 30 14:58	0∘ ⊽	20 0000	morning max el	10151 Aug 22 17:14	11° Ω 27'09	27°36'46
asc. node	10150 Oct 04 23:44	ა — 8° ჲ 22'12		morning max cr	10151 Sep 06 05:23	0° mb	27 30 10
morning set	10150 Oct 09 01:57	16° ≏ 49'42		asc. node	10151 Sep 30 03:25 10151 Sep 21 20:35	28° m) 07'29	
morning sec	10150 Oct 15 02:22	0°M		use. noue	10151 Sep 22 18:20	0° 0	
	10130 000 13 02.22	0 110		morning set	10151 Sep 22 18:28 10151 Sep 23 08:53	ა <u> </u>	
superior conj	10150 Oct 15 23:15	1°ML56'11	1°30'00	morning sec	10131 Бер 23 00.33	1 =1000	
minimum elong	10150 Oct 15 21:30	1°M46'25	1°30'02	superior conj	10151 Sep 30 10:53	16° ≏ 41'10	1°16'37
max. Earth dist.	10150 Oct 16 09:09	2°M51'13	1.31623 AU	minimum elong	10151 Sep 30 10:35	16° ≏ 28'58	1°16'25
evening rise	10150 Oct 10 05:05 10150 Oct 22 20:01	16°M55'26	1.51025710	max. Earth dist.	10151 Sep 30 00:42 10151 Sep 29 18:49	15° ⊆ 11'49	1.31493 AU
evening rise	10150 Oct 22 20:01 10150 Oct 29 08:12	0° ∡ 7		max. Larm dist.	10151 Oct 06 11:47	0°M	1.51475 AO
desc. node	10150 Nov 07 21:19	16° ∡ 28'30		evening rise	10151 Oct 07 04:26	1°M29'34	
dese. Hode	10150 Nov 17 18:46	0°る		evening rise	10151 Oct 22 10:41	0° ⊼ ¹	
evening max el	10150 Nov 22 17:48	5° る 15'40	27°05'20	desc. node	10151 Oct 25 18:28	4° ∡ 756'51	
retrograde	10150 Dec 06 15:28	12° る 26'15	27 03 20	evening max el	10151 Nov 04 16:08	16° ∡ 744'07	26°06'57
evening set	10150 Dec 13 13:45	12 3 2013		retrograde	10151 Nov 18 13:59	23° х 47'40	20 0037
min. Earth dist.	10150 Dec 17 08:23		0.60585 AU	evening set	10151 Nov 25 00:05	22°×109'20	
inferior conj	10150 Dec 20 11:40	5° る 00'10		min. Earth dist.	10151 Nov 29 05:00	19° х 34'32	0.58481 AU
minimum elong	10150 Dec 20 18:43	4° る 45'19		inferior conj	10151 Nov 25 05:00 10151 Dec 02 08:01	17° х 3 7 32	
morning rise	10150 Dec 28 02:13	4 043 19 0°る10'52	3 32 39	minimum elong	10151 Dec 02 08:01 10151 Dec 02 15:49	17° × 17'31	4°42'27
morning risc	10150 Dec 28 02:13	0 010 32 30°R.∡7		morning rise	10151 Dec 02 13:49	17 × 03 13 12° × 50'48	4 42 27
direct	10150 Dec 28 21:05 10150 Dec 30 05:52	29° ₹ 52'30		direct	10151 Dec 10 10:01 10151 Dec 12 14:55	12 × 30 48 12° × 34'43	
asc. node	10150 Dec 30 03:32 10150 Dec 31 23:28	0°る04'53		asc. node	10151 Dec 12 14:35 10151 Dec 18 20:32	14° × 52'20	
asc. node	10150 Dec 31 23:28	0°る		morning max el	10151 Dec 18 20:32 10151 Dec 20 21:07	16° × 36'15	18°33'08
morning max el	10150 Dec 31 14.17 10151 Jan 06 13:03	0 る 3° る 31'28	18°00'07	morning max ci	10151 Dec 20 21.07 10151 Dec 30 08:19	0°중	10 33 00
•	10151 Jan 22 03:52	28° る 09'16	18 00 07	morning sot		12°る16'59	
morning set	10151 Jan 22 03:52 10151 Jan 23 03:50	28° € 09′16		morning set	10152 Jan 05 21:59	12 01039	
	10151 Jan 25 05:50	U ××		superior con:	10152 Jan 14 19:18	29° る 16'00	0°51'33
suporior cor:	10151 Feb 01 06:12	16° ≈ 30'04	0°19'45	superior conj minimum elong	10152 Jan 14 19:18 10152 Jan 14 22:21	29° ろ 30'09	0°51'33
superior conj	10151 Feb 01 06:12 10151 Feb 01 07:49	16°≈30'04 16°≈37'10	0°19'49	minimum clong	10152 Jan 14 22:21 10152 Jan 15 04:47	29° ⊘ 30'09	0 3131
minimum elong desc. node			U 1747	desc. node		0°≈ 11°≈45'10	
max. Earth dist.	10151 Feb 03 20:41 10151 Feb 08 20:26	21°≈02'36 29°≈29'34	1.42262 AU	max. Earth dist.	10152 Jan 21 17:33 10152 Jan 22 05:01	11°≈45°10 12°≈35'02	1.40175 AU
max. Earth UISt.		∠ı ~	1.72202 AU	man. Bartii üist.	10132 Jan 22 US.UI	14 ~>>> 02	1.401/3 AU
				avaning rice	10152 Jan 26 00:22	1000012127	
evening rise	10151 Feb 09 03:47 10151 Feb 14 12:12	0° ∺ 8° ∺ 41'29		evening rise	10152 Jan 26 09:32 10152 Feb 01 17:57	19° ≈ 42'37 0°) €	

	10150 F. L. 22, 10 50	0000			10152 1 07 14 27	20 - 2400	
	10152 Feb 22 18:50	0° Υ	220 4012 4	desc. node	10153 Jan 07 14:27	2°≈24'08	
evening max el	10152 Mar 01 02:39	8° Y 19'37	23°48'34		10153 Jan 24 22:48	0° ∀	250000
retrograde	10152 Mar 12 00:56	14° Y 45'55		evening max el	10153 Feb 11 15:55	22°₩08'25	25°06'03
asc. node	10152 Mar 15 18:59	13° Y 39'16		retrograde	10153 Feb 23 14:55	29°) €04'58	
evening set	10152 Mar 17 06:14	12° Y 34'49		evening set	10153 Mar 01 08:21	26°) 42′09	
min. Earth dist.	10152 Mar 22 00:35	7° Y 02'28	0.68428 AU	asc. node	10153 Mar 02 16:11	25° ∺ 27'18	
inferior conj	10152 Mar 22 16:58	6° Y 06'36	2°03'44	min. Earth dist.	10153 Mar 05 19:10	21°) 44′35	0.67820 AU
minimum elong	10152 Mar 22 14:48	6° Y 14'02	2°03'03	inferior conj	10153 Mar 06 23:18	20°) 12'31	1°21'04
morning rise	10152 Mar 27 23:23	0° Υ 03'13		minimum elong	10153 Mar 06 21:33	20° ¥ 18'17	1°20'31
	10152 Mar 28 01:03	30° ₹ ₩		morning rise	10153 Mar 12 11:04	14° ∺ 16'55	
direct	10152 Apr 01 01:49	28° ∺ 28'18		direct	10153 Mar 16 01:06	13°) €03'04	
	10152 Apr 05 11:08	$0^{\circ}\mathbf{\Upsilon}$		morning max el	10153 Mar 23 04:55	17° ∺ 00'34	19°27'22
morning max el	10152 Apr 09 02:07	3° Y 01′26	20°32'55		10153 Apr 02 09:59	0 ° $\mathbf{\gamma}$	
desc. node	10152 Apr 18 18:07	14° Ƴ 54'17		greatest brilliancy	10153 Apr 04 22:09	3° Ƴ 39'50	-0.7m
	10152 Apr 29 04:04	$_{0\circ}$ 8		desc. node	10153 Apr 05 14:56	4° Ƴ 41'59	
morning set	10152 May 08 03:43	13° 8 41'35		morning set	10153 Apr 17 02:46	22° Ƴ 10′09	
max. Earth dist.	10152 May 17 00:45	27° 8 42'45	1.43514 AU		10153 Apr 22 04:15	8° 0	
	10152 May 18 10:43	$\Pi^{\circ}0$		max. Earth dist.	10153 Apr 29 14:01	11° 8 35'36	1.44880 AU
superior conj	10152 May 23 11:56	8° Ⅱ 18'10	-2°06'42	superior conj	10153 May 03 13:49	17° 8 55'50	-2°12'35
minimum elong	10152 May 23 16:36	8° Ⅱ 37'36	2°06'52	minimum elong	10153 May 03 12:27	17° 8 50'24	2°12'53
evening rise	10152 Jun 04 20:12	29° Ⅱ 30′09			10153 May 11 00:52	Π $^{\circ}0$	
	10152 Jun 05 03:00	0 \circ \odot		evening rise	10153 May 17 15:45	10° Ⅱ 57'44	
asc. node	10152 Jun 11 17:25	11° © 28'19			10153 May 29 06:50	0 \circ \odot	
evening max el	10152 Jun 21 19:52	25° © 52'31	18°04'32	asc. node	10153 May 29 14:28	0° ട് 29'01	
retrograde	10152 Jun 28 07:56	29° © 14'05		evening max el	10153 Jun 05 09:30	9° 5 17'48	18°15'38
evening set	10152 Jun 30 23:09	28°540'25		retrograde	10153 Jun 11 18:30	12°5641'00	
inferior conj	10152 Jul 07 10:19	23°935'12	2°14'16	evening set	10153 Jun 14 17:30	11°953'53	
minimum elong	10152 Jul 07 13:09	23°528'04	2°13'04	inferior conj	10153 Jun 20 16:27	6° © 31'04	2°53'42
min. Earth dist.	10152 Jul 10 11:14	20°532'12	0.61687 AU	minimum elong	10153 Jun 20 18:38	6° © 24'53	2°52'51
morning rise	10152 Jul 14 00:50	17°931'56		min. Earth dist.	10153 Jun 23 04:28	3°541'52	
desc. node	10152 Jul 15 17:41	16°529'37		morning rise	10153 Jun 26 18:23	0°ഇ15'50	
direct	10152 Jul 20 17:06	15°912'15			10153 Jun 27 02:35	30°R Ⅱ	
morning max el	10152 Aug 03 22:06		27°56'59	desc. node	10153 Jul 02 14:47	27° I I40'17	
morning max or	10152 Aug 09 22:57	0°Ω	27 3037	direct	10153 Jul 03 11:04	27° I 37'54	
	10152 Aug 09 22:37	0° m)		uncet	10153 Jul 10 11:32	0°95	
morning set	10152 Nug 25 11:36 10152 Sep 06 10:36	15° m) 24'49		morning max el	10153 Jul 17 07:12	5°940'21	27°39'39
asc. node	10152 Sep 00 10:30 10152 Sep 07 17:24	18° M) 04'08		morning max cr	10153 Jul 17 07:12 10153 Aug 04 18:36	0°Ω	21 37 37
max. Earth dist.	10152 Sep 07 17.24 10152 Sep 12 01:55	27° m) 22'18	1.31852 AU	morning set	10153 Aug 04 18:30 10153 Aug 21 04:48	29° Ω 09'44	
max. Lattii dist.	10152 Sep 12 01:35 10152 Sep 13 06:46	0° ⊽	1.51652 AU	morning set	10153 Aug 21 04:48 10153 Aug 21 14:54	0° m)	
	10132 Sep 13 00.40	0 ==		asc. node	10153 Aug 21 14:34 10153 Aug 25 14:13	8° Mp 07'44	
aumorior coni	10152 Cap. 12 20:52	10 0 17122	0050105	max. Earth dist.	_	-•	1 22700 AII
superior conj	10152 Sep 13 20:53	1° Ω 17'33	0°58'05	max. Earth dist.	10153 Aug 26 02:37	9° m 12'47	1.32709 AU
minimum elong	10152 Sep 13 18:43	1° £ 05'39	0°57'41		10152 A 20 02-21	1.50 m. 4010.6	0024142
evening rise	10152 Sep 20 15:19	16° Ω 07'53		superior conj	10153 Aug 29 03:21	15° Mp 40'06	0°34'43
	10152 Sep 27 10:19	0°M		minimum elong	10153 Aug 29 01:46	15° M 31'37	0°34'16
desc. node	10152 Oct 11 15:40	22°M21'44	24040440		10153 Sep 04 18:18	0° ™	
evening max el	10152 Oct 16 06:16	27°M22'21	24°40'48	evening rise	10153 Sep 05 02:47	0° ≏ 45'20	
	10152 Oct 19 07:06	0° ⊼ ¹			10153 Sep 21 07:12	0°M	22001106
retrograde	10152 Oct 30 01:17	4° ∡ 17'57		evening max el	10153 Sep 27 17:01	7°M32'35	23°01'06
evening set	10152 Nov 04 10:30	3° ∡ 13'17		desc. node	10153 Sep 28 12:53	8°M19'28	
min. Earth dist.	10152 Nov 09 17:33	0° ∡ ¹26'48	0.56584 AU	retrograde	10153 Oct 11 00:04	14°M10'04	
	10152 Nov 10 10:35	30°RM.		evening set	10153 Oct 14 22:15	13°M36'29	
inferior conj	10152 Nov 12 08:01	28°M47'08		min. Earth dist.	10153 Oct 22 02:01	10°ML20'01	0.55209 AU
minimum elong	10152 Nov 12 12:38	28°M39'45	5°32'26	inferior conj	10153 Oct 23 12:49	9°M29'48	
morning rise	10152 Nov 20 17:00	24°M42'35		minimum elong	10153 Oct 23 09:51	9°M34'06	5°40'15
direct	10152 Nov 23 04:51	24°M25'31		morning rise	10153 Oct 31 23:14	5°M40'04	
morning max el	10152 Dec 02 18:53	28°M59'29	19°28'06	direct	10153 Nov 04 00:16	5°M18'17	
	10152 Dec 03 19:00	0° ∡ ¹		morning max el	10153 Nov 15 03:29	10°M33'19	20°45'39
asc. node	10152 Dec 04 17:33	1° ₹ ′01′48		asc. node	10153 Nov 21 14:30	18°ML17'58	
morning set	10152 Dec 20 00:17	26° ∡ ¹45'21			10153 Nov 28 13:52	0° ∡ ¹	
	10152 Dec 21 15:00	0°ಕ		morning set	10153 Dec 04 07:53	11° ∡ 726′24	
		_					
superior conj	10152 Dec 28 00:45	12° る 47'09		superior conj	10153 Dec 11 18:08	26° ₹ 151'06	1°30'26
minimum elong	10152 Dec 28 03:43	13° පි 01'37		minimum elong	10153 Dec 11 20:12	27° ∡ ¹01'38	1°30'43
max. Earth dist.	10153 Jan 03 10:46	24° පි 57'41	1.37968 AU		10153 Dec 13 07:18	0°₹	
	10153 Jan 06 05:45	0° ≈		max. Earth dist.	10153 Dec 16 18:53	6° ප 54'23	1.35894 AU
evening rise	10153 Jan 07 04:10	1° ≈ 39′00		evening rise	10153 Dec 20 17:35	14° る 24'07	

4 4-	10152 D 25 11-24	220755122		E	10154 N 20, 10.02	100.7/47/51	1 24124 ATT
desc. node	10153 Dec 25 11:24 10153 Dec 29 15:32	22°る55'33 0°≈		max. Earth dist. evening rise	10154 Nov 29 10:02 10154 Dec 03 22:03	18° ҂ ⁴47'51 27° ҂ ⁴48'17	1.34134 AU
	10154 Jan 19 17:02	0° ∺		evening rise	10154 Dec 05 22:05	2/メー401/ 0°る	
evening max el	10154 Jan 25 05:17	5° ¥ 56'08	26°13'30	desc. node	10154 Dec 12 08:25	13°る14'47	
retrograde	10154 Feb 06 23:51	13° ¥ 10′56	20 13 30	dese. Hode	10154 Dec 22 21:41	0°≈	
evening set	10154 Feb 13 05:07	10° ¥ 39'57		evening max el	10154 Dec 22 21:41 10155 Jan 07 18:51	0 ~ 19° ≈ 35'06	27°03'27
min. Earth dist.	10154 Feb 17 09:36	6° ¥ 16'53	0.66819 AU	retrograde	10155 Jan 21 02:55	26°≈56'48	27 03 27
asc. node	10154 Feb 17 13:23	6° ₩ 05'25	0.00017110	evening set	10155 Jan 27 18:36	24°≈22'42	
inferior conj	10154 Feb 19 01:26	4°) 14′25	0°29'22	min. Earth dist.	10155 Jan 31 17:37	20° ≈ 33'27	0.65450 AU
minimum elong	10154 Feb 19 00:41	4°) €16'45	0°29'17	inferior conj	10155 Feb 02 21:10	18° ≈ 07'29	
Z .	10154 Feb 22 20:40	30°R≈		minimum elong	10155 Feb 02 22:03	18° ≈ 04'57	0°30'20
morning rise	10154 Feb 24 21:00	28° ≈ 28'23		asc. node	10155 Feb 04 10:35	16° ≈ 23'38	
direct	10154 Feb 27 23:58	27° ≈ 33'02		morning rise	10155 Feb 09 02:51	12° ≈ 33'32	
	10154 Mar 05 09:29	0° ∀		direct	10155 Feb 11 20:26	11° ≈ 53'15	
morning max el	10154 Mar 06 14:53	1°) €07'18	18°37'35	morning max el	10155 Feb 18 06:01	15° ≈ 15'53	18°04'32
desc. node	10154 Mar 23 11:44	24°) € 50'36			10155 Feb 28 23:20	0°) €	
	10154 Mar 26 18:35	0° Y		morning set	10155 Mar 08 13:55	12°) €20'41	
morning set	10154 Mar 27 17:59	1° Y 31'57		desc. node	10155 Mar 10 08:32	15°) 14′26	
					10155 Mar 19 12:23	0° Y	
superior conj	10154 Apr 12 22:31	26° Ƴ 53'48	-1°58'31				
minimum elong	10154 Apr 12 14:23	26° Y 21'58	1°58'10	superior conj	10155 Mar 23 06:37	5° Y 57'20	-1°26'12
max. Earth dist.	10154 Apr 12 07:55	25° Y 56'39	1.45570 AU	minimum elong	10155 Mar 22 21:33	5° Y 21'35	1°25'12
	10154 Apr 14 22:05	0° 8		max. Earth dist.	10155 Mar 26 04:03	10° Ƴ 30'16	1.45516 AU
evening rise	10154 Apr 28 11:26	21° 8 25'30			10155 Apr 07 16:53	0° 8	
	10154 May 03 20:23	Π °0		evening rise	10155 Apr 08 09:51	1° 8 05'36	
greatest brilliancy	10154 May 06 10:59	4° Ⅱ 08'28	-0.9m	greatest brilliancy	10155 Apr 21 09:48	20° 8 58'27	-0.7m
asc. node	10154 May 16 11:33	18° Ⅱ 57'41			10155 Apr 27 17:14	Π °0	
evening max el	10154 May 19 21:08	22° Ⅱ 53'21	18°44'39	evening max el	10155 May 03 04:38	6° Ⅲ 34'11	19°30'24
retrograde	10154 May 26 12:02	26° Ⅱ 31'22		asc. node	10155 May 03 08:43	6° Ⅱ 44'25	
evening set	10154 May 29 19:00	25° Ⅱ 29'24		retrograde	10155 May 10 09:26	10° Ⅲ 39'04	
inferior conj	10154 Jun 04 09:32	19° Ⅱ 50'21	3°13'54	evening set	10155 May 14 00:53	9° Ⅱ 21'33	
minimum elong	10154 Jun 04 10:34	19° Ⅱ 47'10	3°13'22	inferior conj	10155 May 19 10:18	3° Ⅱ 27'40	3°18'42
min. Earth dist.	10154 Jun 06 06:31	17° Ⅱ 31'27	0.65652 AU	minimum elong	10155 May 19 10:08	3° Ⅲ 28'11	3°18'19
morning rise	10154 Jun 10 01:24	13° Ⅱ 30'33		min. Earth dist.	10155 May 20 16:16	1° Ⅱ 48'52	0.67066 AU
direct	10154 Jun 16 12:35	10° Ⅱ 45'51			10155 May 22 02:37	30°₹ 8	
desc. node	10154 Jun 19 11:52	11° I I15'50	0 < 0.5 010 4	morning rise	10155 May 24 19:02	27° 8 07'45	
morning max el	10154 Jun 29 17:44	18° Ⅱ 35'46	26°50'24	direct	10155 May 30 20:23	24° 8 27'19	
	10154 Jul 09 08:36	0° ⊙		desc. node	10155 Jun 06 08:54	26° 8 51'10	
	10154 Jul 28 18:23	0° Ω 12° Ω 21'50			10155 Jun 10 06:43	0°П 1°П 40/41	25927146
morning set max. Earth dist.	10154 Aug 04 12:27 10154 Aug 08 17:40	$20^{\circ} \Omega 37'06$	1.34071 AU	morning max el	10155 Jun 12 03:58 10155 Jul 03 10:33	1° ∏ 49'41 0° ©	25-37-46
asc. node	10154 Aug 08 17.40 10154 Aug 12 11:04	20° Ω 13'29	1.540/1 AU	marning sat	10155 Jul 18 05:44	0 95 24°951'32	
asc. node	10134 Aug 12 11.04	28 8613 29		morning set	10155 Jul 21 00:29	24 3 31 32 0° Ω	
superior conj	10154 Aug 13 04:01	29° Ω 41'43	0°07'00	max. Earth dist.	10155 Jul 21 00:29	1° Ω 44'06	1.35899 AU
minimum elong	10154 Aug 13 03:39	29° Ω 39'50	0°06'40	max. Lartii dist.	10155 Jul 21 22.55	1 00 ++ 00	1.55677 AC
behind sun begin	10154 Aug 12 22:24	29° Ω 12'28	0 00 40	superior conj	10155 Jul 27 20:12	13° Ω 15'34	-0°24'12
behind sun end	10154 Aug 13 08:54	0° Mp 07'15		minimum elong	10155 Jul 27 21:41	13°Ω23'01	
oeimia san ena	10154 Aug 13 07:31	0°m)		asc. node	10155 Jul 30 07:57	18° Ω 17'51	0 2110
evening rise	10154 Aug 20 12:55	15° m) 15'35		evening rise	10155 Aug 04 19:37	29° Ω 33'06	
<i>y</i> 21	10154 Aug 27 22:45	0∘ ⊽		<i>5</i>	10155 Aug 05 00:53	0° m)	
evening max el	10154 Sep 09 09:16	17° £ 49'35	21°24'50	evening max el	10155 Aug 22 13:51	28° m) 42'45	20°04'11
desc. node	10154 Sep 15 10:08	22° ≙ 19'58		S	10155 Aug 23 23:05	0∘ <u>⊽</u>	
retrograde	10154 Sep 21 12:47	23° £ 51'16		retrograde	10155 Sep 02 02:21	3° ჲ 55'58	
evening set	10154 Sep 24 03:04	23° ≏ 35'48		desc. node	10155 Sep 02 07:23	3° ჲ 55'51	
inferior conj	10154 Oct 03 05:55	19° ≙ 39'37	-4°51'41	evening set	10155 Sep 04 00:35	3° ≏ 46'14	
minimum elong	10154 Oct 02 20:37	19° ≙ 52'38	4°49'28		10155 Sep 12 16:21	30°₽, TD)	
min. Earth dist.	10154 Oct 03 09:37	19° ≙ 34'25	0.54633 AU	inferior conj	10155 Sep 13 01:06	29° m 46'54	-3°14'29
morning rise	10154 Oct 11 14:58	15° ≙ 49'19		minimum elong	10155 Sep 12 16:35	29° m 59'39	3°11'35
direct	10154 Oct 15 09:16	15° ≙ 18'42		min. Earth dist.	10155 Sep 14 18:59	28° m 44'14	0.54997 AU
morning max el	10154 Oct 27 23:10	21° ≏ 18′04	22°22'50	morning rise	10155 Sep 21 07:23	25° m 35'25	
	10154 Nov 04 07:47	0° M		direct	10155 Sep 25 20:18	24° m 50'46	
asc. node	10154 Nov 08 11:27	6°M25'39			10155 Oct 07 18:13	0∘ 亚	
morning set	10154 Nov 18 18:32	26°M13'50		morning max el	10155 Oct 09 11:25	1° ≏ 31'38	24°09'52
	10154 Nov 20 13:09	0° ∡ ¹		asc. node	10155 Oct 26 08:21	25° ≙ 12'24	
					10155 Oct 28 21:07	0° M	
superior conj	10154 Nov 25 19:53		1°38'29	morning set	10155 Nov 03 06:19	11°ML02'03	
minimum elong	10154 Nov 25 20:45	11° ∡ ¹22'06	1°38'52				

superior conj	10155 Nov 10 03:09	25° ™ 58′05	1°39'54	superior conj	10156 Oct 24 13:42	10° M 45′56	1°35'15
minimum elong	10155 Nov 10 02:49	25°M56'16	1°40'15	minimum elong	10156 Oct 24 12:23	10°M38'37	1°35'26
	10155 Nov 11 23:49	0° ∡ ¹		max. Earth dist.	10156 Oct 25 15:10	13° M 06'40	1.31910 AU
max. Earth dist.	10155 Nov 12 09:22	0° ∡ 751'19	1.32791 AU	evening rise	10156 Oct 31 14:15	25°M57'26	
evening rise	10155 Nov 17 13:57	11° ∡ ¹41'58			10156 Nov 02 13:26	0° ∡ ¹	
C	10155 Nov 27 07:39	ರ°0		desc. node	10156 Nov 15 02:35	22° ∡ ¹49'48	
desc. node	10155 Nov 29 05:29	3° ට 15'28			10156 Nov 19 19:04	0°ಕ	
	10155 Dec 18 10:56	0° ≈		evening max el	10156 Dec 02 15:52	15° る 36'28	27°23'31
evening max el	10155 Dec 21 07:08		27°28'46	retrograde	10156 Dec 16 12:25	22° る 52'04	2, 2331
retrograde	10156 Jan 03 23:17	10°≈13'33	27 20 10	evening set	10156 Dec 23 13:14	20°る34'03	
evening set	10156 Jan 10 22:19	7°≈43'00		min. Earth dist.	10156 Dec 27 06:10	17°る42'06	0.61789 AU
min. Earth dist.	10156 Jan 14 16:58	4°≈25'20	0.63752 AU	inferior conj	10156 Dec 30 06:19	17 34200 14°る58'20	
		4 ≈23 20 1°≈44'38		,		14 3 38 20	
inferior conj	10156 Jan 17 07:49			minimum elong	10156 Dec 30 12:03	9° る 57'41	2 30 20
minimum elong	10156 Jan 17 10:59	1°≈36'30	1°3/'35	morning rise	10157 Jan 06 13:22		
	10156 Jan 19 01:41	30°Rる		asc. node	10157 Jan 08 04:52	9° る 37'58	
asc. node	10156 Jan 22 07:46	27° る 20'08		direct	10157 Jan 08 18:22	9° る 36'35	
morning rise	10156 Jan 24 01:36	26° る 25'44		morning max el	10157 Jan 15 16:13	13° る 06'28	17°50'30
direct	10156 Jan 26 11:41	25° る 56'52			10157 Jan 27 03:22	0° ≈	
morning max el	10156 Feb 01 23:32	29° る 18'20	17°48'36	morning set	10157 Jan 31 09:38	7° ≈ 36'29	
	10156 Feb 02 15:49	0° ≈					
morning set	10156 Feb 18 13:11	24° ≈ 28'32		superior conj	10157 Feb 11 08:52	26° ≈ 57'00	-0°02'08
	10156 Feb 21 18:51	0° ∀		minimum elong	10157 Feb 11 08:42	26° ≈ 56'17	0°01'50
desc. node	10156 Feb 25 05:20	5°) (48′13		behind sun begin	10157 Feb 11 00:10	26° ≈ 19'45	
				behind sun end	10157 Feb 11 17:14	27° ≈ 32'44	
superior conj	10156 Mar 02 07:21	15° ¥ 51'33	-0°44'13	desc. node	10157 Feb 11 02:09	26° ≈ 28'16	
minimum elong	10156 Mar 02 02:35	15°) 32′05	0°43'23		10157 Feb 13 03:58	0° ∀	
max. Earth dist.	10156 Mar 07 23:12	24°) 57'31	1.44729 AU	max. Earth dist.	10157 Feb 18 14:28	9° ₩ 00'36	1.43304 AU
	10156 Mar 11 03:52	0°Υ		evening rise	10157 Feb 25 13:46	20° ¥ 07'03	
evening rise	10156 Mar 17 21:31	10° Y 26'41		evening rise	10157 Mar 04 00:15	0°Υ	
e vennig rise	10156 Mar 30 21:34	0°8			10157 Mar 25 12:34	0°B	
evening max el	10156 Apr 15 06:35	20° 8 16'04	20°31'01	evening max el	10157 Mar 29 02:58	3° B 58'38	21°43'18
asc. node	*	23° 8 35'38	20 3101	asc. node		9° 8 16'08	21 43 16
	10156 Apr 19 05:55				10157 Apr 06 03:08	9° 8 22'29	
retrograde	10156 Apr 23 08:11	24° 8 57'42		retrograde	10157 Apr 07 06:19		
evening set	10156 Apr 27 08:56	23° 8 24'33	2010150	evening set	10157 Apr 11 17:18	7° 8 34'01	20.5212.0
inferior conj	10156 May 02 15:59	17° 8 17'32	3°10'58	inferior conj	10157 Apr 17 00:20	1° 8 16'15	
minimum elong	10156 May 02 14:49	17° 8 21'31	3°10'32	minimum elong	10157 Apr 16 22:28	1° 8 22'44	
min. Earth dist.	10156 May 03 07:50	16° 8 23'07	0.68021 AU	min. Earth dist.	10157 Apr 17 03:09	1° 8 06'26	0.68519 AU
morning rise	10156 May 07 20:30	11° 8 00'09			10157 Apr 17 22:17	30° ŖƳ	
direct	10156 May 13 09:28	8° 8 32'34		morning rise	10157 Apr 22 03:27	25° Y ′03'07	
desc. node	10156 May 23 05:51	13° 8 56'06		direct	10157 Apr 27 02:59	22° Y ′54'00	
morning max el	10156 May 24 13:34	15° 8 13'40	24°11'38	morning max el	10157 May 07 00:10	28° Y 44'34	22°41'47
	10156 Jun 05 16:05	$\Pi^{\circ}0$			10157 May 08 05:14	0° 8	
	10156 Jun 25 08:47	0 \circ \odot		desc. node	10157 May 10 02:45	2° 8 06'23	
morning set	10156 Jun 29 03:51	6° 5 26'38			10157 May 30 09:01	$\Pi^{\circ}0$	
max. Earth dist.	10156 Jul 02 20:30	12°956'40	1.38060 AU	morning set	10157 Jun 10 01:32	16° Ⅱ 53'37	
				max. Earth dist.	10157 Jun 14 17:42	24° ∏ 42'40	1.40340 AU
superior conj	10156 Jul 10 00:31	26°5513'18	-0°57'11		10157 Jun 17 19:19	0°ಅ	
minimum elong	10156 Jul 10 04:17	26°531'16					
	10156 Jul 11 23:35	$0^{\circ}\Omega$		superior conj	10157 Jun 22 12:46	8° 5 24'38	-1°29'15
asc. node	10156 Jul 16 04:54	8° Ω 17'07		minimum elong	10157 Jun 22 18:34	8°950'56	
evening rise	10156 Jul 18 20:19	13° Ω 30'55		evening rise	10157 Jul 02 11:45	26°959'56	1 20 30
evening rise	10156 Jul 27 16:18	0° my		asc. node	10157 Jul 03 01:51	28°506'40	
avanina may al			10904!14	asc. Houe			
evening max el	10156 Aug 04 07:51	10° mp 22'41	19°04'14		10157 Jul 04 01:51	0°N	10025122
retrograde	10156 Aug 13 05:05	14° m 47'53		evening max el	10157 Jul 18 12:17	22°Ω44'20	18°25'23
evening set	10156 Aug 15 02:03	14° Tp 36'53		retrograde	10157 Jul 26 02:23	26° Ω 32'36	
desc. node	10156 Aug 19 04:37	13° Mp 04'51		evening set	10157 Jul 28 05:20	26° Ω 15'33	
inferior conj	10156 Aug 23 11:38	10° To 23'03		inferior conj	10157 Aug 04 19:31	21°Ω42'02	
minimum elong	10156 Aug 23 08:10	10°Mp29'01	1°18'48	minimum elong	10157 Aug 04 20:19	21° Ω 40'24	0°22'17
min. Earth dist.	10156 Aug 26 08:29	8° Mp 25′20	0.56246 AU	desc. node	10157 Aug 06 01:49	20° Ω 40'43	
morning rise	10156 Aug 31 11:12	5° Mp 35'43		min. Earth dist.	10157 Aug 08 03:50	19° Ω 01'43	0.58153 AU
direct	10156 Sep 05 19:27	4°₩28'58		morning rise	10157 Aug 12 07:47	16° Ω 18′15	
morning max el	10156 Sep 20 00:07	11°Mp44'33	25°50'28	direct	10157 Aug 18 09:22	14° Ω 42'27	
	10156 Oct 04 02:23	0∘ ⊽		morning max el	10157 Sep 01 18:17	22° Q 23'05	27°07'38
asc. node	10156 Oct 12 05:13	14° ≏ 28'15			10157 Sep 08 12:13	0° m)	
morning set	10156 Oct 17 17:36	25° ≏ 46'23			10157 Sep 27 00:56	0∘ ⊽	
-	10156 Oct 19 16:34	0° M		asc. node	10157 Sep 29 02:04	4° ჲ 04'36	
				morning set	10157 Oct 02 02:35	10° ≏ 20'44	
				5			

superior conj	10157 Oct 09 01:27	25° ≏ 33'48	1°24'58		10158 Sep 18 19:58	0∘ ত	
minimum elong	10157 Oct 08 23:28	25° ≏ 22'43	1°24'54	max. Earth dist.	10158 Sep 22 09:10	7° ≏ 44'22	1.31591 AU
max. Earth dist.	10157 Oct 09 00:15	25° ≏ 27'05	1.31507 AU				
	10157 Oct 11 01:21	0° M		superior conj	10158 Sep 23 12:38	10° ≏ 16′16	1°09'23
evening rise	10157 Oct 15 20:20	10°M26'34		minimum elong	10158 Sep 23 10:24	10° ≏ 03'50	1°09'05
	10157 Oct 25 19:34	0° 🗖		evening rise	10158 Sep 30 06:02	25° £ 03'34	
desc. node	10157 Nov 01 23:44	11° x ⁷ 46'17	26944122	J J.	10158 Oct 02 14:06	0°ጤ 29°ጤ50'18	
evening max el	10157 Nov 14 18:38 10157 Nov 17 13:33	27° メ 34'28 0°る	26°44'23	desc. node	10158 Oct 19 20:54 10158 Oct 19 23:48	29°11630°18 0° √ 1	
retrograde	10157 Nov 17 13:33 10157 Nov 28 17:02	4°る42'47		evening max el	10158 Oct 19 23:48 10158 Oct 27 13:32	8° × ⁷ 41'21	25°33'00
evening set	10157 Dec 05 11:20	2°る47'34		retrograde	10158 Nov 10 10:59	15° × ⁷ 41'28	23 33 00
min. Earth dist.	10157 Dec 09 08:48	0° る 10'36	0.59681 AU	evening set	10158 Nov 16 11:50	14° ∡ 17'29	
	10157 Dec 09 14:19	30°R. ✓		min. Earth dist.	10158 Nov 21 01:52	11° ∡ ³39'47	0.57635 AU
inferior conj	10157 Dec 12 13:09	27° ∡ ³39′00	-4°06'27	inferior conj	10158 Nov 24 01:03	9° ∡ ³37′09	-5°09'00
minimum elong	10157 Dec 12 20:50	27° ∡ ²23'42	4°03'43	minimum elong	10158 Nov 24 08:06	9° ∡ ¹24'58	5°07'17
morning rise	10157 Dec 20 09:00	22° ₹ 59'13		morning rise	10158 Dec 02 06:40	5° ∡ 19'46	
direct	10157 Dec 22 12:22	22° ∡ ⁴42'22		direct	10158 Dec 04 13:41	5° ∡ 03'41	
asc. node	10157 Dec 26 01:56	23° ₹ 31'34		asc. node	10158 Dec 12 22:57	8° ⋌ ¹55'36	
morning max el	10157 Dec 30 04:31	26° ₹ 30'04	18°11'35	morning max el	10158 Dec 13 08:34	9° ∡ 18'17	18°53'39
morning set	10158 Jan 02 05:49	0°궁 21°궁26'21		morning act	10158 Dec 26 20:26	0°궁 5° 궁 44'09	
morning set	10158 Jan 14 21:15 10158 Jan 19 10:32	21 6 2621		morning set	10158 Dec 29 19:16	3 044 09	
	10136 Jan 19 10.32	0 ~		superior conj	10159 Jan 07 06:47	22° る 16'01	1°02'31
superior conj	10158 Jan 24 10:11	9° ≈ 09'31	0°34'14	minimum elong	10159 Jan 07 09:56	22° ろ 31'00	1°02'32
minimum elong	10158 Jan 24 12:38	9° ≈ 20'34	0°34'13		10159 Jan 11 10:12	0° ≈	
desc. node	10158 Jan 28 22:59	17° ≈ 10′53		max. Earth dist.	10159 Jan 14 07:54	5° ≈ 14'03	1.39239 AU
max. Earth dist.	10158 Feb 01 00:57	22° ≈ 27'32	1.41400 AU	desc. node	10159 Jan 15 19:50	7° ≈ 52'21	
evening rise	10158 Feb 05 22:51	0°) 35′28		evening rise	10159 Jan 18 05:26	12° ≈ 00'56	
	10158 Feb 05 14:07	0°) €			10159 Jan 29 09:00	0°)	
	10158 Feb 25 11:30	0° Υ			10159 Feb 20 21:02	0° Υ	
evening max el	10158 Mar 11 19:10	17° Y 43'54	23°02'29	evening max el	10159 Feb 22 09:08	1° Υ 32'24	24°22'28
retrograde	10158 Mar 22 02:09	23° Y 49'04		retrograde	10159 Mar 05 18:24	8°Υ12'22	
asc. node	10158 Mar 24 00:19	23° Υ 31'06 21° Υ 46'04		asc. node	10159 Mar 10 21:31	6° Y 11'19 5° Y 56'12	
evening set inferior conj	10158 Mar 27 00:27 10158 Apr 01 09:22	15° Y 20'40	2°24'14	evening set min. Earth dist.	10159 Mar 11 04:49 10159 Mar 15 19:54	0° Υ 38'35	0.68217 AU
minimum elong	10158 Apr 01 07:11	15° Υ 28'14	2°23'33	iiiii. Latui dist.	10159 Mar 16 07:24	30°R ∺	0.06217 AU
min. Earth dist.	10158 Mar 31 23:55	15° Υ 53'21	0.68578 AU	inferior conj	10159 Mar 16 17:13	29°) 27'01	1°46'45
morning rise	10158 Apr 06 13:48	9° Ƴ 13'11		minimum elong	10159 Mar 16 15:09	29°) 33′57	1°46'06
direct	10158 Apr 10 23:50	7° Y 25'26		morning rise	10159 Mar 22 01:34	23°) €26'40	
morning max el	10158 Apr 19 15:05	12° Y ′24'47	21°16'55	direct	10159 Mar 25 22:41	22°) € 00'42	
desc. node	10158 Apr 26 23:36	21° Y ′04'18		morning max el	10159 Apr 02 13:12	26° 米 16′56	20°03'13
	10158 May 03 11:42	0°8			10159 Apr 05 22:03	0° Υ	
morning set	10158 May 20 20:31	26° 8 08'10		desc. node	10159 Apr 13 20:25	10° Y 36′29	
To all the	10158 May 23 07:00	0°П 70П 21122	1 42464 411	. ,	10159 Apr 26 21:00	0°8	
max. Earth dist.	10158 May 27 20:13	/°Щ21′32	1.42464 AU	morning set	10159 Apr 29 20:51	4° 8 35'38	1.44172 AU
superior conj	10158 Jun 04 04:25	19° ∏ 39'53	-1°56'01	max. Earth dist.	10159 May 10 06:15	20 032 24	1.441/2 AU
minimum elong	10158 Jun 04 10:32	19 П 3933 20° П 06'08		superior conj	10159 May 15 19:52	29° 8 51'30	-2°11'25
8	10158 Jun 10 02:24	0.ಪ		minimum elong	10159 May 15 22:28	0°Щ02'06	
evening rise	10158 Jun 15 13:51	9° © 50'13			10159 May 15 21:57	$\Pi^{\circ}0$	
asc. node	10158 Jun 19 22:50	17° 5 642'04		evening rise	10159 May 28 21:49	21° Ⅲ 50′13	
	10158 Jun 27 09:38	0 ° Ω			10159 Jun 02 16:01	0 \circ 50	
evening max el	10158 Jul 01 23:13	5° Ω 38'32	18°06'40	asc. node	10159 Jun 06 19:52	6° 9 57'07	
retrograde	10158 Jul 08 17:25	9° Ω 05'07		evening max el	10159 Jun 15 12:47	18° © 54'32	18°07'04
evening set	10158 Jul 11 04:15	8° Ω 38'14	1041101	retrograde	10159 Jun 21 22:13	22°5514'49	
inferior conj	10158 Jul 18 00:17	3° Ω 44'19	1°41'01	evening set	10159 Jun 24 16:51	21°535'28	2022125
minimum elong min. Earth dist.	10158 Jul 18 02:57 10158 Jul 21 06:34	3° \O 38'04 0° \O 42'52	1°39'47 0.60387 AU	inferior conj minimum elong	10159 Jun 30 22:19 10159 Jul 01 00:59	16°522'26 16°515'21	2°33'35 2°32'32
mm. Earm tist.	10158 Jul 21 06.34 10158 Jul 22 02:23	30°RS	0.0030 / AU	min. Earth dist.	10159 Jul 01 00.39 10159 Jul 03 18:07	13°9523'14	2 32 32 0.62627 AU
desc. node	10158 Jul 23 22:59	28°932'47		morning rise	10159 Jul 07 07:16	10°9513'18	0.02027710
morning rise	10158 Jul 24 22:49	27° © 52'40		desc. node	10159 Jul 10 20:08	8° © 17'34	
direct	10158 Jul 31 11:59	25° © 47'25		direct	10159 Jul 14 00:37	7° 5 44'46	
	10158 Aug 10 14:21	$0^{\circ}\Omega$		morning max el	10159 Jul 28 02:11	15° © 47'03	27°53'59
morning max el	10158 Aug 14 19:22	3° Ω 43'15	27°49'59		10159 Aug 08 17:39	0 $^{\circ}\Omega$	
	10158 Sep 03 04:37	0° m)			10159 Aug 26 20:38	0° m	
asc. node	10158 Sep 15 22:54	23° m 55'33		morning set	10159 Aug 31 06:23	8° mp 39'50	
morning set	10158 Sep 16 07:33	24° Mp 40'27		asc. node	10159 Sep 02 19:44	13° m 55'46	

max. Earth dist.	10159 Sep 05 14:07	19° m 48'00	1.32160 AU	max. Earth dist.	10160 Aug 18 11:17	1° m 28'31	1.33226 AU
				asc. node	10160 Aug 19 16:35	4° Mp 00′36	
superior conj	10159 Sep 07 21:24	24° m 47'39	0°48'45		10160 4 22 01 40	00.00.01144	0000107
minimum elong	10159 Sep 07 19:25	24°₱36'49 0°₽	0°48'19	superior conj	10160 Aug 22 01:40	9° Mp 01'44	
evening rise	10159 Sep 10 06:25 10159 Sep 14 17:25	0° 22 9° 2 42'40		minimum elong evening rise	10160 Aug 22 00:32 10160 Aug 29 04:35	8° Mp 55'41 24° Mp 17'44	0°23'01
evening rise	10159 Sep 14 17.25 10159 Sep 25 01:14	9 = 42 40 0°M		evening rise	10160 Aug 29 04.33	24 IV1744 0°Ω	
desc. node	10159 Oct 06 18:07	16°M41'55		evening max el	10160 Aug 31 22:03 10160 Sep 19 13:17	0 — 29° Ω 12'55	22°18'50
evening max el	10159 Oct 09 01:31	19°ML05'00	23°59'02	evening max er	10160 Sep 20 09:06	0°M	22 1030
retrograde	10159 Oct 22 16:34	25°M53'55		desc. node	10160 Sep 22 15:22	1°ML53'51	
evening set	10159 Oct 27 11:51	25°M03'25		retrograde	10160 Oct 02 10:29	5°M38'03	
min. Earth dist.	10159 Nov 02 12:03	22°M06'27	0.55925 AU	evening set	10160 Oct 05 17:57	5° ™ 13'48	
inferior conj	10159 Nov 04 16:32	20°M46'54	-5°42'40	min. Earth dist.	10160 Oct 13 19:28	1°M40'06	0.54850 AU
minimum elong	10159 Nov 04 18:17	20°M44'14	5°42'16	inferior conj	10160 Oct 14 14:58	1°M12'38	-5°27'01
morning rise	10159 Nov 13 02:42	16°M49'58		minimum elong	10160 Oct 14 08:40	1°M21'31	5°25'59
direct	10159 Nov 15 19:45	16°M31'12			10160 Oct 16 19:23	30° ₽ Ω	
morning max el	10159 Nov 26 00:55	21°M21'27	19°58'20	morning rise	10160 Oct 23 01:02	27° ≏ 25'31	
asc. node	10159 Nov 29 19:57	25°M35'52		direct	10160 Oct 26 09:01	27° ჲ 00'39	
	10159 Dec 02 22:59	0° ∡ ¹			10160 Nov 04 00:20	0° M	
morning set	10159 Dec 14 00:12	20° ∡ 19'55		morning max el	10160 Nov 07 03:47	2°M33'56	21°25'02
	10159 Dec 18 17:50	0° ろ		asc. node	10160 Nov 15 16:55	13°M15'46	
					10160 Nov 24 22:08	0° ∡	
superior conj	10159 Dec 21 17:52	6° る 03'22	1°22'30	morning set	10160 Nov 27 09:23	5° ∡ ¹04'55	
minimum elong	10159 Dec 21 20:31	6° ප 16'33	1°22'40			.	
max. Earth dist.	10159 Dec 27 14:35	17° る 26'05	1.37063 AU	superior conj	10160 Dec 04 15:15	20° ∡ 18'38 −	1°34'42
evening rise	10159 Dec 31 08:34	24°る19'59		minimum elong	10160 Dec 04 16:49	20° ₹ 26'46	1°35'02
desc. node	10160 Jan 02 16:46	28° る 29'11		max. Earth dist.	10160 Dec 09 01:23	29° ₹ 19'41	1.35099 AU
	10160 Jan 03 13:39	0° ₩			10160 Dec 09 09:29	0°궁 7°궁23'00	
	10160 Jan 23 00:47	15° ¥ 22′20	25926121	evening rise desc. node	10160 Dec 13 04:51	18° る 56'14	
evening max el retrograde	10160 Feb 04 22:29 10160 Feb 17 06:10	22° € 27'23	25°36'21	desc. node	10160 Dec 19 13:45 10160 Dec 26 05:57	0°≈	
evening set	10160 Feb 23 04:53	22 \(\frac{7}{27}\)23 20°\(\frac{1}{27}\)23		evening max el	10160 Dec 20 03:57	0 ∞ 29°≈07'00	26°37'09
asc. node	10160 Feb 25 18:42	17°) 25'44		evening max er	10161 Jan 18 10:15	0° ∀	20 37 07
min. Earth dist.	10160 Feb 27 12:54	15°) 17'54	0.67449 AU	retrograde	10161 Jan 30 12:45	6° ¥ 26'14	
inferior conj	10160 Feb 28 22:01	13°) 32'12	1°00'14	evening set	10161 Feb 05 22:50	3° ¥ 52'51	
minimum elong	10160 Feb 28 20:37	13°) 36'42	0°59'51	evening sec	10161 Feb 09 19:28	30°R≈	
morning rise	10160 Mar 05 12:49	7°) € 40'35		min. Earth dist.	10161 Feb 10 00:46	29° ≈ 44'37	0.66286 AU
direct	10160 Mar 08 22:03	6°) €34'54		inferior conj	10161 Feb 11 21:43	27° ≈ 30'55	0°04'46
morning max el	10160 Mar 15 19:16	10°) €20'32	19°04'13	minimum elong	10161 Feb 11 21:34	27° ≈ 31'20	0°05'00
greatest brilliancy	10160 Mar 29 04:03	28°) 13′11	-0.7m	transit middle	10161 Feb 11 21:34	27° ≈ 31'20	0°05'00
	10160 Mar 30 08:15	0° Υ		transit begin	10161 Feb 11 18:48	27° ≈ 39'37	
desc. node	10160 Mar 30 17:14	0° Y 34'09		transit end	10161 Feb 12 00:21	27° ≈ 23'04	
morning set	10160 Apr 08 00:17	13° Y 20'18		asc. node	10161 Feb 11 15:55	27° ≈ 48'14	
	10160 Apr 18 17:24	0° 8		morning rise	10161 Feb 17 21:21	21° ≈ 50′00	
max. Earth dist.	10160 Apr 21 22:20	5° 8 01'21	1.45268 AU	direct	10161 Feb 20 20:05	21° ≈ 01'37	
				morning max el	10161 Feb 27 07:51	24° ≈ 29'30	18°21'27
superior conj	10160 Apr 24 12:53	9° 8 07'36			10161 Mar 03 23:16	0° ∀	
minimum elong	10160 Apr 24 08:18	8° 8 49'28	2°09'14	desc. node	10161 Mar 17 14:02	20°) (49′50	
	10160 May 07 13:09	0°II		morning set	10161 Mar 19 03:07	23°) €17'46	
evening rise	10160 May 09 07:22	2° I I52'20			10161 Mar 23 08:12	0 ° Υ	
asc. node	10160 May 23 16:56	25° Ⅱ 45'07 0° ©		gunariar agni	10161 Apr 02 10:50	18° Ƴ 01'39	1946120
avanina may al	10160 May 26 21:45 10160 May 29 01:50	0 95 2°9524'24	18°25'49	superior conj minimum elong	10161 Apr 03 18:58 10161 Apr 03 09:33	18 1 01 39 17° Y 24'49	
evening max el retrograde	10160 Jun 04 12:16	5°\$52'30	10 23 49	max. Earth dist.	10161 Apr 03 09:33	17 γ 24 49 19° γ 29'35	1.45637 AU
evening set	10160 Jun 07 14:38	4° © 59'04		max. Earth dist.	10161 Apr 04 17:27 10161 Apr 11 10:48	0° 8	1.43037 AU
evening set	10160 Jun 12 22:57	30°R∏		evening rise	10161 Apr 19 17:16	12° 8 57'30	
inferior conj	10160 Jun 13 09:32	29° ∏ 28'51	3°04'21	greatest brilliancy	10161 Apr 30 00:36	29° 8 04'13	-0.8m
minimum elong	10160 Jun 13 11:16	29° I I23'46	3°03'40	greatest officially	10161 Apr 30 15:08	0°II	0.0111
min. Earth dist.	10160 Jun 15 15:08	26° ∏ 51'11	0.64645 AU	asc. node	10161 May 10 14:04	13° ∏ 57'28	
morning rise	10160 Jun 19 06:50	23° I I10'52		evening max el	10161 May 12 11:50	16° Ⅱ 02'24	19°02'08
direct	10160 Jun 25 21:38	20° Ⅲ 29′01		retrograde	10161 May 19 07:54	19° Ⅱ 50′56	
desc. node	10160 Jun 26 17:15	20° Ⅲ 31′16		evening set	10161 May 22 18:18	18° Ⅱ 42'31	
morning max el	10160 Jul 09 12:21	28° Ⅱ 27'36	27°22'16	inferior conj	10161 May 28 06:16	12° Ⅱ 56′50	3°17'38
	10160 Jul 10 23:51	0 \circ \odot		minimum elong	10161 May 28 06:47	12° Ⅱ 55'12	3°17'11
	10160 Aug 01 13:11	$0^{\circ}\Omega$		min. Earth dist.	10161 May 29 20:48	10° Ⅱ 54'01	0.66300 AU
morning set	10160 Aug 13 20:31	22° Ω 11'40		morning rise	10161 Jun 02 18:42	6° Ⅱ 36′16	
	10160 Aug 17 18:04	0° m		direct	10161 Jun 09 02:00	3° Ⅱ 52′09	

	10161 7 10 1110	50 W 0 110 5			101/03/	2001 120110	
desc. node	10161 Jun 13 14:18	5° Ⅱ 01'25	2.021152	morning rise	10162 May 17 15:59	20° 8 20'49	
morning max el	10161 Jun 21 23:09	11° Ⅲ 33'08	26°21'52	direct	10162 May 23 12:20	17° 8 44'39	
	10161 Jul 06 16:16	0° ©		desc. node	10162 May 31 11:17	21° 8 18'01	
	10161 Jul 25 03:49	$0^{\circ}\Omega$		morning max el	10162 Jun 04 08:53	24° 8 51'35	25°02'06
morning set	10161 Jul 27 22:39	5° Ω 07'39			10162 Jun 09 00:13	Π °0	
max. Earth dist.	10161 Jul 31 21:54	12° Ω 43'48	1.34788 AU		10162 Jun 30 03:23	0 \circ	
				morning set	10162 Jul 10 08:21	17° © 15'36	
superior conj	10161 Aug 05 23:06	22° Q 52'33	-0°05'54	max. Earth dist.	10162 Jul 13 22:39	23° © 47'12	1.36783 AU
minimum elong	10161 Aug 05 23:28	22° Ω 54'21	0°06'09		10162 Jul 17 05:57	$0 {\circ} \Omega$	
behind sun begin	10161 Aug 05 17:57	22° Ω 26′04					
behind sun end	10161 Aug 06 04:58	23° Ω 22'42		superior conj	10162 Jul 20 10:40	6° Ω 11'57	-0°38'07
asc. node	10161 Aug 06 13:27	24° Ω 06′25		minimum elong	10162 Jul 20 13:05	6° Ω 23'51	0°38'03
	10161 Aug 09 09:27	0° m y		asc. node	10162 Jul 24 10:21	14° Ω 08'56	
evening rise	10161 Aug 13 13:33	8° m 43'28		evening rise	10162 Jul 28 17:59	22° Ω 52'58	
	10161 Aug 24 21:23	0∘ ত			10162 Aug 01 07:57	0° m y	
evening max el	10161 Sep 01 10:14	9° ≙ 42'52	20°48'15	evening max el	10162 Aug 14 20:46	20° m 55'49	19°36'09
desc. node	10161 Sep 09 12:38	14° £ 55'50		retrograde	10162 Aug 24 15:54	25° mp 47'16	
retrograde	10161 Sep 12 22:26	15° ≏ 25'20		evening set	10162 Aug 26 12:13	25° m 37'41	
evening set	10161 Sep 15 03:22	15° ≙ 13'37		desc. node	10162 Aug 27 09:54	25° m 26'19	
inferior conj	10161 Sep 24 07:10	11° ≏ 17'44	-4°14'56	inferior conj	10162 Sep 04 07:31	21° mp 33'42	-2°26'02
minimum elong	10161 Sep 23 21:19	11° ≏ 31'47		minimum elong	10162 Sep 04 00:57	21° mp 44'02	
min. Earth dist.	10161 Sep 25 03:52	10° Ω 48'10	0.54661 AU	min. Earth dist.	10162 Sep 06 14:56	20° m) 06'30	0.55430 AU
morning rise	10161 Oct 02 15:15	7° ≏ 20'34	0.5 1001 110	morning rise	10162 Sep 12 11:29	17° m 07'52	0.55 150 710
direct	10161 Oct 02 13:13	6° ₽ 44'56		direct	10162 Sep 12 11:25	16° m) 14'29	
morning max el	10161 Oct 10 17:01	13° 2 03'19	23°08'00	morning max el	10162 Sep 17 08:55 10162 Oct 01 06:57	~	24°54'28
morning max cr	10161 Nov 01 14:16	0°M	23 00 00	morning max cr	10162 Oct 07 00:37	0° ⊽	24 34 20
asc. node		1°M41'32		asc. node		0 == 20° £ 41'16	
	10161 Nov 02 13:51	19°M53'27		asc. node	10162 Oct 20 10:44 10162 Oct 25 03:19	20 = 41 10 0° M	
morning set	10161 Nov 11 20:44	19 IIL33 27 0° √			10162 Oct 23 03:19 10162 Oct 27 08:29	4°M39'58	
	10161 Nov 16 13:28	0 x		morning set	10162 Oct 27 08.29	4 1163938	
superior conj	10161 Nov 18 19:41	4° ∡ ¹52'28	1°39'51	superior conj	10162 Nov 03 04:35	19°M36'33	1°38'38
minimum elong	10161 Nov 18 20:01	4° × 754'17	1°40'14	minimum elong	10162 Nov 03 04:33	19°M32'14	1°38'55
max. Earth dist.	10161 Nov 21 19:46	11° x ⁷ 15'14		max. Earth dist.	10162 Nov 04 21:59	23°M22'57	1.32356 AU
evening rise	10161 Nov 26 14:36	21° × ⁷ 01'03	1.55500 AC	max. Earm dist.	10162 Nov 07 23:55	23 11 6 22 37 0° √ 1	1.32330 AU
evening rise	10161 Nov 26 14.36 10161 Dec 01 07:16	21 x・01 03 0°る		avanina rica	10162 Nov 07 23:33 10162 Nov 10 10:24	0 x. 5° ₹ 104'48	
desc. node	10161 Dec 06 10:47	9° る 08'24		evening rise desc. node	10162 Nov 10 10:24 10162 Nov 23 07:53	28° 🖈 58'57	
desc. node		9 008 24 0°≈		desc. node	10162 Nov 23 07:35 10162 Nov 23 22:45	28 x・3837	
	10161 Dec 20 03:37		27017120				27020140
evening max el	10161 Dec 31 00:53	12° ≈ 37'57	2/1/30	evening max el	10162 Dec 13 12:09	25°₹43'37	2/3040
retrograde	10162 Jan 13 13:17	20°≈00'53		. 1	10162 Dec 18 18:16	0°≈ 2002/20	
evening set	10162 Jan 20 08:30	17°≈27'12	0.64766.411	retrograde	10162 Dec 27 06:52	3°≈02'30	
min. Earth dist.	10162 Jan 24 05:23	13°≈51'46		evening set	10163 Jan 03 07:15	0°≈36'28	
inferior conj	10162 Jan 26 13:55	11°≈18'01			10163 Jan 04 03:21	30°Rる	0.60040.477
minimum elong	10162 Jan 26 15:43	11°≈13'08	0°58'01	min. Earth dist.	10163 Jan 07 00:48	27° る 30'21	0.62940 AU
asc. node	10162 Jan 29 13:07	8°≈15'47		inferior conj	10163 Jan 09 19:51	24° පි 46'51	
morning rise	10162 Feb 02 00:34	5°≈50'10		minimum elong	10163 Jan 10 00:07	24° ⋜ 36'26	2°07'57
direct	10162 Feb 04 14:35	5°≈15′22		asc. node	10163 Jan 16 10:16	19° る 43'35	
morning max el	10162 Feb 11 00:23	8° ≈ 36'34	17°55'31	morning rise	10163 Jan 16 19:12	19° පි 35'01	
	10162 Feb 25 15:32	0° ∀		direct	10163 Jan 19 02:42	19° る 09'55	
morning set	10162 Feb 28 11:14	4°) 41'46		morning max el	10163 Jan 25 17:55	22° る 34'08	17°47'04
desc. node	10162 Mar 04 10:48	11° ∺ 18′10			10163 Jan 31 13:19	0° ≈	
				morning set	10163 Feb 10 20:25	17°≈18'28	
superior conj	10162 Mar 14 08:26	27° ¥ 22'32			10163 Feb 18 04:26	0° ∀	
minimum elong	10162 Mar 14 00:51	26° ¥ 52'18	1°07'55	desc. node	10163 Feb 19 07:34	1° ¥ 55'14	
	10162 Mar 16 00:02	0° Y					
max. Earth dist.	10162 Mar 18 12:49	4° Υ ′00'05	1.45265 AU	superior conj	10163 Feb 22 19:24	7°) (46′39	-0°25'56
evening rise	10162 Mar 30 09:15	22° Y 24'18		minimum elong	10163 Feb 22 16:45	7°) €35'38	0°25'19
	10162 Apr 04 08:21	0° 8		max. Earth dist.	10163 Mar 01 06:36		1.44198 AU
greatest brilliancy	10162 Apr 14 00:06	14° 8 29'21	-0.6m		10163 Mar 08 16:36	0 ° Υ	
evening max el	10162 Apr 25 17:01	29° 8 43'48	19°54'36	evening rise	10163 Mar 09 21:05	1° Y 50'00	
	10162 Apr 25 23:29	$\Pi^{\circ}0$			10163 Mar 28 22:03	0°8	
asc. node	10162 Apr 27 11:15	1° Ⅲ 22′19		evening max el	10163 Apr 08 16:40	13° 8 26'51	21°00'38
retrograde	10162 May 03 06:06	4° Ⅱ 03'33		asc. node	10163 Apr 14 08:27	17° 8 45'50	
evening set	10162 May 07 01:18	2° Ⅱ 39'35		retrograde	10163 Apr 17 04:41	18° 8 25'37	
	10162 May 09 19:05	30°₽ ႘		evening set	10163 Apr 21 09:41	16° 8 45'58	
inferior conj	10162 May 12 09:25	26° 8 40'03	3°16'50	inferior conj	10163 Apr 26 16:30	10° 8 34'19	3°04'21
minimum elong	10162 May 12 08:48	26° 8 42'08	3°16'26	minimum elong	10163 Apr 26 15:00	10° 8 39'31	3°03'52
min. Earth dist.	10162 May 13 09:21	25° 8 19'33		min. Earth dist.	10163 Apr 27 02:44	9° 8 58'51	0.68295 AU
	J				1		

morning rise	10163 May 01 20:05	4° 8 18'42		inferior conj	10164 Apr 10 01:21	24° Ƴ 35'44	
direct	10163 May 07 03:33	1° 8 58'14		minimum elong	10164 Apr 09 23:18	24° Ƴ 42'52	2°41'00
morning max el	10163 May 17 18:21	8° 8 17'57	23°33'12	min. Earth dist.	10164 Apr 09 22:50	24° Y '44'33	0.68608 AU
desc. node	10163 May 18 08:11	8° 8 53'22		morning rise	10164 Apr 15 04:45	18° Ƴ 25′06	
	10163 Jun 03 18:08	Π $^{\circ}0$		direct	10164 Apr 19 22:31	16° Ƴ 24'59	
morning set	10163 Jun 21 20:32	28° Ⅱ 22'37		morning max el	10164 Apr 29 06:25	21° Y ′52'35	22°04'36
Ü	10163 Jun 22 19:29	0°€		desc. node	10164 May 04 05:02	27° Y °25'36	
max. Earth dist.	10163 Jun 25 19:23	5°©10'40	1.39040 AU		10164 May 06 06:19	0°8	
max. Earth dist.	10105 Juli 25 17.25	3 - 10 10	1.570 10 110		10164 May 27 00:58	0°II	
avnorior comi	10162 Iul 02 09:40	18° © 51'19	1011100	marning got	10164 Jun 01 06:43	8° Ⅱ 17'55	
superior conj	10163 Jul 03 08:40			morning set	10164 Jun 06 18:53	7° Д 20'16	1 41207 ATT
minimum elong	10163 Jul 03 13:23	19° © 13'22	1-1030	max. Earth dist.			1.41287 AU
	10163 Jul 09 04:55	0° Ω			10164 Jun 14 03:40	0 \circ	
asc. node	10163 Jul 11 07:17	4° Ω 04'34					
evening rise	10163 Jul 12 15:08	6° Ω 39'22		superior conj	10164 Jun 14 12:41	0° © 39'51	-1°41'35
	10163 Jul 26 05:57	0° Mp		minimum elong	10164 Jun 14 18:57	1° © 07'38	1°41'19
evening max el	10163 Jul 28 19:41	2° ™ 54'17	18°45'08	evening rise	10164 Jun 25 01:26	19° © 53'23	
retrograde	10163 Aug 06 02:02	7° ™ 01'40		asc. node	10164 Jun 27 04:16	23° © 48'53	
evening set	10163 Aug 08 01:18	6° Mp 48′28			10164 Jun 30 13:50	$0^{\circ}\Omega$	
desc. node	10163 Aug 14 07:07	3° Mp 44'30		evening max el	10164 Jul 11 03:18	15° Ω 30'44	18°14'57
inferior conj	10163 Aug 16 02:44	2° m) 26'23	-0°33'40	retrograde	10164 Jul 18 07:34	19° Ω 08'08	
minimum elong	10163 Aug 16 01:21	2° m) 28'55		evening set	10164 Jul 20 13:47	18° Ω 47'17	
minimum clong	_	2 11/2833 30°RΩ	0 33 22	inferior conj	10164 Jul 27 19:51	14°Ω04'36	0°59'20
: E 4 E 4	10163 Aug 19 11:15		0.57004.411	,			
min. Earth dist.	10163 Aug 19 06:21	0° m 08'34	0.57004 AU	minimum elong	10164 Jul 27 21:44	14°Ω00'33	0°58'18
morning rise	10163 Aug 23 22:01	27° Ω 23'17		min. Earth dist.	10164 Jul 31 04:28	11° Ω 12'39	0.59082 AU
direct	10163 Aug 29 14:21	26° Ω 04'43		desc. node	10164 Jul 31 04:16	11° Ω 13′02	
	10163 Sep 08 18:05	0° m)		morning rise	10164 Aug 04 02:23	8° Ω 27'36	
morning max el	10163 Sep 12 21:17	3°Mp31'16	26°27'04	direct	10164 Aug 10 09:35	6° Ω 39'18	
	10163 Oct 01 22:51	0∘ ত		morning max el	10164 Aug 24 18:34	14° Ω 27'06	27°30'28
asc. node	10163 Oct 07 07:34	10° ≏ 06'19			10164 Sep 06 06:44	0° m y	
morning set	10163 Oct 11 18:56	19° ഫ 20′01		asc. node	10164 Sep 23 04:24	29° m 49'50	
Ü	10163 Oct 16 16:13	0° M .			10164 Sep 23 06:23	0∘ <u>v</u>	
	10103 000 10 10.13	0 110		morning set	10164 Sep 25 02:28	ა — 3° ჲ 49'12	
superior conj	10163 Oct 18 15:49	4°M24'24	1°31'33	max. Earth dist.	10164 Oct 01 15:24	18° ≏ 03'14	1.31481 AU
	10163 Oct 18 14:10	4°M15'14	1°31'38	max. Larm dist.	10104 Oct 01 13.24	10 =03 14	1.51461 AC
minimum elong					10164 0 4 02 02 22	100 0 10146	1010100
max. Earth dist.	10163 Oct 19 05:43	5°M41'38	1.31681 AU	superior conj	10164 Oct 02 03:33	19° ≙ 10'46	1°19'00
evening rise	10163 Oct 25 13:26	19°M26'34		minimum elong	10164 Oct 02 01:24	18° ≏ 58'47	1°18'50
	10163 Oct 30 18:32	0° ∡ ¹			10164 Oct 07 00:55	0° M	
desc. node	10163 Nov 10 05:01	18° ∡ 18'33		evening rise	10164 Oct 08 21:19	3° ™ 59'58	
	10163 Nov 18 10:39	0°₹			10164 Oct 22 14:00	0° ∡ ¹	
evening max el	10163 Nov 25 18:53	8° ろ 09'36	27°11'13	desc. node	10164 Oct 27 02:11	6° ∡ 755'11	
retrograde	10163 Dec 09 16:12	15° る 21'18		evening max el	10164 Nov 06 18:20	19° ∡ ¹45'36	26°17'34
evening set	10163 Dec 16 15:30	13° る 12'00		retrograde	10164 Nov 20 16:21	26° ₹ ′50'34	
min. Earth dist.	10163 Dec 20 09:28	10° පි 28'03	0.60897 AU	evening set	10164 Nov 27 05:01	25° ₹ '07'29	
inferior conj	10163 Dec 23 12:08	7° る 47'47		min. Earth dist.	10164 Dec 01 07:29	22° ∡ ³32'45	0.58788 AU
minimum elong	10163 Dec 23 18:52	7° る 33'17		inferior conj	10164 Dec 04 11:15	20° ∡ 11′20	
morning rise	10163 Dec 31 00:46	2° る 55'27	2 21 00	minimum elong	10164 Dec 04 19:08	19° х 56'34	4°32'47
direct	10164 Jan 02 04:41	2° る 36'27		morning rise	10164 Dec 12 11:49	15° × ⁷ 41'21	7 32 77
	10164 Jan 03 07:21	2°る41'38		direct	10164 Dec 14 16:09	15° x 41 21	
asc. node			17057102				
morning max el	10164 Jan 09 09:07	6° る 12'39	1/-5/03	asc. node	10164 Dec 20 04:22	17° 🗷 15'12	10026176
	10164 Jan 24 13:52	0° ≈		morning max el	10164 Dec 22 18:25	19° ∡ ¹22'44	18°26'54
morning set	10164 Jan 25 00:03	0° ≈ 46'43			10164 Dec 30 14:24	0°ಕ	
				morning set	10165 Jan 07 16:36	14° る 50'01	
superior conj	10164 Feb 04 07:30	19° ≈ 22'04	0°14'11		10165 Jan 15 15:52	0°≈	
minimum elong	10164 Feb 04 08:43	19° ≈ 27'22	0°14'20				
behind sun begin	10164 Feb 04 05:06	19° ≈ 11'33		superior conj	10165 Jan 16 17:42	1° ≈ 59'45	0°47'14
behind sun end	10164 Feb 04 12:20	19° ≈ 43'10		minimum elong	10165 Jan 16 20:39	2° ≈ 13'19	0°47'12
desc. node	10164 Feb 06 04:23	22° ≈ 36'49		desc. node	10165 Jan 23 01:16	13° ≈ 19'32	
	10164 Feb 10 12:58	0°) €		max. Earth dist.	10165 Jan 24 05:26	15° ≈ 21'31	1.40497 AU
max. Earth dist.	10164 Feb 11 20:33	2° ∺ 11'05	1.42546 AU	evening rise	10165 Jan 28 13:36	22° ≈ 41'18	1.404277110
		11° \(\frac{1}{49}\)	1.725TU AU	5 v 6 mm g 1150	10165 Feb 02 01:44	0° \	
evening rise	10164 Feb 17 19:32	11°π49'03 0°Υ				0° Υ 0°Υ	
	10164 Feb 29 17:32		0001		10165 Feb 22 17:15		22025
evening max el	10164 Mar 21 11:08	27° Y 10'47	22°16'23	evening max el	10165 Mar 04 02:01	10° ℃ 56'53	23°36'38
	10164 Mar 24 13:46	0°8		retrograde	10165 Mar 14 20:27	17° Y 18'11	
retrograde	10164 Mar 31 01:54	2° 8 52'03		asc. node	10165 Mar 18 02:50	16° Y 27'17	
asc. node	10164 Mar 31 05:39	2° 8 51'56		evening set	10165 Mar 19 23:55	15° Y 09'05	
evening set	10164 Apr 04 17:44	0° 8 57'04		inferior conj	10165 Mar 25 10:07	8° Y 41'20	2°09'26
	10164 Apr 05 18:26	30° ₹Ƴ		minimum elong	10165 Mar 25 07:56	8° Y 48'52	2°08'45

min. Earth dist.	10165 Mar 24 19:30	9° Y 31'25	0.68480 AU	asc. node	10166 Mar 05 00:02	28° ¥ 28'53	
morning rise	10165 Mar 30 15:56	2° Υ 36'51	0.06460 AU	min. Earth dist.	10166 Mar 08 14:36	26 K 26 33	0.67931 AU
direct	10165 Apr 03 20:17	2 1 30 31 0° Υ 58'41		inferior conj	10166 Mar 09 16:57	24 K 14 44 22° K 47'51	1°28'08
		5° Υ 38'25	20°43'54			22°\(\frac{4}{54}\)'00	1°27'34
morning max el	10165 Apr 12 00:20		20 43 34	minimum elong	10166 Mar 09 15:06		1 2/34
desc. node	10165 Apr 21 01:52	16° Ƴ 39'20		morning rise	10166 Mar 15 03:44	16° ¥ 50'52	
	10165 Apr 30 09:34	0°8		direct	10166 Mar 18 19:33	15°) ₹33'56	10027111
morning set	10165 May 11 16:00	17° 8 07'15		morning max el	10166 Mar 26 01:57	19°) ₹36′04	19°36'11
The state of	10165 May 19 19:06	0°II	1 10056 177		10166 Apr 03 12:05	0° Υ	
max. Earth dist.	10165 May 20 00:38	0° Ⅱ 22'25	1.43256 AU	desc. node	10166 Apr 07 22:42	6° Y ′23′29	
		_		greatest brilliancy	10166 Apr 07 18:39	6° Y 08'36	-0.7m
superior conj	10165 May 26 18:15	11° Ⅲ 27'52		morning set	10166 Apr 20 14:40	25° Y 33'42	
minimum elong	10165 May 26 23:27	11° ∏ 49'40	2°04'28		10166 Apr 23 11:40	0°8	
	10165 Jun 06 11:56	0 \circ		max. Earth dist.	10166 May 02 13:04	14° 8 10'04	1.44717 AU
evening rise	10165 Jun 07 20:28	2° 5 23'45					
asc. node	10165 Jun 14 01:17	13° © 16'23		superior conj	10166 May 06 23:37	21° 8 14'33	
evening max el	10165 Jun 24 15:43	28° © 34'50	18°04'31	minimum elong	10166 May 06 23:23	21° 8 13'36	2°13'15
	10165 Jun 26 06:22	0 $^{\circ}$ Ω			10166 May 12 09:14	Π °0	
retrograde	10165 Jul 01 05:07	1° Ω 57'19		evening rise	10166 May 20 19:26	14° Ⅱ 00′19	
evening set	10165 Jul 03 19:09	1° Ω 25'33			10166 May 30 10:21	0 \circ \odot	
	10165 Jul 06 07:01	30° Ŗ ∽		asc. node	10166 May 31 22:21	2° 5 21'23	
inferior conj	10165 Jul 10 08:30	26°523'18	2°06'15	evening max el	10166 Jun 08 05:31	11° © 58'22	18°12'51
minimum elong	10165 Jul 10 11:20	26°916'17	2°05'03	retrograde	10166 Jun 14 14:18	15° © 20'15	
min. Earth dist.	10165 Jul 13 11:04	23° © 19'52	0.61349 AU	evening set	10166 Jun 17 12:10	14° © 35'12	
morning rise	10165 Jul 17 01:03	20° © 22'38		inferior conj	10166 Jun 23 12:43	9° © 14'59	2°48'59
desc. node	10165 Jul 18 01:27	19° 5 544'12		minimum elong	10166 Jun 23 15:02	9° 5 08'29	2°48'05
direct	10165 Jul 23 16:43	18° 5 06'23		min. Earth dist.	10166 Jun 26 02:52	6°\$22'34	0.63525 AU
morning max el	10165 Aug 06 22:35	26°507'00	27°56'24	morning rise	10166 Jun 29 16:24	3°901'07	
C	10165 Aug 10 13:24	$0^{\circ}\Omega$		desc. node	10166 Jul 04 22:34	0°ഇ32'12	
	10165 Aug 30 20:14	O° Mp		direct	10166 Jul 06 09:31	0°ഇ25'11	
morning set	10165 Sep 09 05:07	18° Mp 01'04		morning max el	10166 Jul 20 07:09	8° © 27'56	27°44'23
asc. node	10165 Sep 10 01:13	19° m)45'14		C	10166 Aug 05 22:49	$0^{\circ}\Omega$	
	10165 Sep 14 20:12	$0 \circ \overline{\mathbf{v}}$			10166 Aug 23 02:31	0° m/	
max. Earth dist.	10165 Sep 14 23:04	0° ჲ 15'41	1.31766 AU	morning set	10166 Aug 24 00:37	1° mp 49'42	
				asc. node	10166 Aug 27 22:06	9° m) 48'04	
superior conj	10165 Sep 16 13:55	3° ≏ 48'58	1°01'14	max. Earth dist.	10166 Aug 29 00:53	12° m 09'01	1.32551 AU
minimum elong	10165 Sep 16 11:43	3° ₽ 36'50	1°00'51	man. Darun dige.	101001148 27 00.03	12	1.02001110
evening rise	10165 Sep 23 07:56	18° ≏ 38'04	1 0001	superior conj	10166 Aug 31 21:04	18° m) 13'54	0°38'35
	10165 Sep 28 19:59	0°M		minimum elong	10166 Aug 31 19:21	18° Mp 04'42	0°38'06
desc. node	10165 Oct 13 23:24	24°MJ31'12		minimum ciong	10166 Sep 06 07:02	0∘ ರ	0 30 00
dese. Hode	10165 Oct 18 20:53	0° ⊼		evening rise	10166 Sep 07 19:28	ა — 3° ჲ 15'54	
evening max el	10165 Oct 19 09:35	0° ∡ ⁷ 30'47	24°54'54	evening rise	10166 Sep 22 04:33	0°ML	
retrograde	10165 Nov 02 05:37	7° ∡ 127'55	213131	desc. node	10166 Sep 30 20:38	10°M43'52	
evening set	10165 Nov 07 19:10	6° x ⁷ 18'15		evening max el	10166 Sep 30 20:27	10°M43'25	23°16'09
min. Earth dist.	10165 Nov 12 21:11	3° × ⁷ 34'34	0.56843 AU	retrograde	10166 Oct 14 06:01	17°M24'11	23 100)
inferior conj	10165 Nov 15 14:22	1°×7'48'29		evening set	10166 Oct 18 09:44	16°M46'38	
minimum elong	10165 Nov 15 19:48	1°×739'38		min. Earth dist.	10166 Oct 25 06:04	13°M35'42	0.55372 AU
minimum ciong	10165 Nov 18 11:35	30°RM	3 27 03	inferior conj	10166 Oct 26 21:47	12°M37'48	
morning rise	10165 Nov 23 22:41	27°M40'42		minimum elong	10166 Oct 26 20:05	12°M40'18	
direct	10165 Nov 26 08:58	27°M24'03		morning rise	10166 Nov 04 08:15	8°M46'29	3 72 71
direct	10165 Dec 03 12:36	0° x ¹		direct	10166 Nov 07 07:04	8°M25'35	
marning may al		1° ∡ 52′52	10010127	morning max el		13°M34'08	20°32'40
morning max el	10165 Dec 05 17:58	3° ₹ 13'08	19 1827	C	10166 Nov 18 04:33	20°M20'13	20 32 40
asc. node	10165 Dec 07 01:22			asc. node	10166 Nov 23 22:21	20°11620°13 0° √	
morning set	10165 Dec 22 17:53	29° ∡ 15'46			10166 Nov 29 21:57		
	10165 Dec 23 02:45	0°ප		morning set	10166 Dec 07 00:52	13° ∡ ′55'33	
annari '	10165 D 20 21 01	150=20451	1011150	avmani· '	10166 D 14 12 52	200.72.42.6	1020125
superior conj	10165 Dec 30 21:01	15°る24'51 15°る39'37		superior conj	10166 Dec 14 12:52		1°28'35
minimum elong	10165 Dec 31 00:03			minimum elong	10166 Dec 14 15:05	29° х ³35'54	1 26 30
max. Earth dist.	10166 Jan 06 11:10	27° る 49'11	1.38294 AU	may Ed P	10166 Dec 14 19:50	0°る	1 2/100 411
J 1	10166 Jan 07 16:09	0°≈ 3°••50!33		max. Earth dist.	10166 Dec 19 18:48	9° る 49'14	1.36189 AU
desc. node	10166 Jan 09 22:11	3°≈59'22		evening rise	10166 Dec 23 16:03	17°る08'31	
evening rise	10166 Jan 10 05:11	4°≈29'55		desc. node	10166 Dec 27 19:09	24° る 32'21	
	10166 Jan 26 03:16	0°) {	0.40.5		10166 Dec 30 23:49	0° ≈	
evening max el	10166 Feb 14 15:26	24°) (45'53	24°55'04		10167 Jan 20 12:10	0° \	2 < 0.0 =
_	10166 Feb 21 03:59	0°Υ		evening max el	10167 Jan 28 04:53	8° ₩ 34'37	26°04'27
retrograde	10166 Feb 26 11:09	1° Y 38'43		retrograde	10167 Feb 09 20:50	15°) 47'05	
				•			
	10166 Mar 03 04:59	30° ₹ ₩		evening set	10167 Feb 16 00:24	13° ¥ 17′09	
evening set				•			

min. Earth dist.	10167 Feb 20 05:49	8°) 48′59	0.66992 AU	inferior conj	10168 Feb 05 16:42	20° ≈ 45′28	-0°21'18
inferior conj	10167 Feb 21 19:52	6° ¥ 50'45	0°37'48	minimum elong	10168 Feb 05 17:18	20° ≈ 43'45	0°20'44
minimum elong	10167 Feb 21 18:55	6° ¥ 53'43	0°37'39	asc. node	10168 Feb 06 18:26	19° ≈ 32'24	
morning rise	10167 Feb 27 14:06	1° ∺ 03'08		morning rise	10168 Feb 11 20:45	15° ≈ 09'39	
direct	10167 Mar 02 18:42	0° ∺ 05'08		direct	10168 Feb 14 15:39	14° ≈ 27'20	
morning max el	10167 Mar 09 10:56	3° ¥ 41'55	18°43'59	morning max el	10168 Feb 21 01:30	17° ≈ 50'48	18°08'22
desc. node	10167 Mar 25 19:30	26° ∺ 29'18			10168 Mar 01 04:24	0° ℋ	
	10167 Mar 28 01:33	0° Υ		morning set	10168 Mar 10 17:46	15° ¥ 19'42	
morning set	10167 Mar 31 02:20	4° Ƴ 44'27		desc. node	10168 Mar 11 16:18	16° 米 51′01	
max. Earth dist.	10167 Apr 15 06:40	28° Y 28'46	1.45516 AU		10168 Mar 19 20:37	0 ° Υ	
superior conj	10167 Apr 16 10:02	0° と 15'57	2°01'58	superior conj	10168 Mar 25 16:55	9° Ƴ 14'52	1031157
minimum elong	10167 Apr 16 10:02 10167 Apr 16 02:40	29° Y 47'04		minimum elong	10168 Mar 25 07:33	8° Υ 38'02	
minimum ciong	10167 Apr 16 05:58	0°8	2 01 44	max. Earth dist.	10168 Mar 28 02:48		1.45574 AU
evening rise	10167 Apr 10 03:38 10167 May 01 18:43	24° 8 36'52		max. Earth dist.	10168 Apr 08 00:12	0° 8	1.43374 AU
evening rise	10167 May 01 18.43	0°Ⅱ		evening rise	10168 Apr 10 19:48	4° 8 22'21	
greatest brilliancy	10167 May 08 17:56	5° Ц 47'33	-0.9m	•	-	23° 8 20'16	0.7m
	•	3 П 4/33 20° П 55'34	-0.9111	greatest brilliancy	10168 Apr 23 03:52	23 3 20 16 0° Ⅱ	-U. /III
asc. node	10167 May 18 19:28	20°Щ35°34 25°Щ32'51	10020111	1	10168 Apr 27 17:03	0°Щ 8°Щ49'03	
evening max el	10167 May 22 17:38		18°39'11	asc. node	10168 May 04 16:36		10022122
retrograde	10167 May 29 07:02	29° Ⅱ 07'45		evening max el	10168 May 05 01:48	9° Ⅱ 12'38	19°22'32
evening set	10167 Jun 01 12:50	28° Ⅱ 07'57		retrograde	10168 May 12 04:04	13° Ⅱ 12'55	
inferior conj	10167 Jun 07 04:23	22° Ⅱ 31'08	3°11'51	evening set	10168 May 15 18:12	11° Ⅲ 57'43	
minimum elong	10167 Jun 07 05:37	22° I I27'24	3°11'17	inferior conj	10168 May 21 04:10	6° Ⅱ 05'48	3°18'50
min. Earth dist.	10167 Jun 09 03:36	20° Ⅱ 07'05	0.65408 AU	minimum elong	10168 May 21 04:11	6° Ⅱ 05'45	3°18'25
morning rise	10167 Jun 12 21:36	16° Ⅱ 11'44		min. Earth dist.	10168 May 22 12:18	4° Ⅱ 20'43	0.66882 AU
direct	10167 Jun 19 09:54	13° Ⅱ 27'27			10168 May 26 07:28	30° ₹ 8	
desc. node	10167 Jun 21 19:38	13° Ⅱ 47'05		morning rise	10168 May 26 13:47	29° 8 45'36	
morning max el	10167 Jul 02 17:37	21° Ⅱ 19'41	26°59'26	direct	10168 Jun 01 16:43	27° 8 04'04	
	10167 Jul 10 06:08	0 \circ		desc. node	10168 Jun 07 16:39	29° 8 05'54	
	10167 Jul 30 03:08	0 \circ Ω			10168 Jun 09 00:40	Π $^{\circ}0$	
morning set	10167 Aug 07 10:04	15° Ω 07'08		morning max el	10168 Jun 14 04:04	4° Ⅱ 31'39	25°49'43
max. Earth dist.	10167 Aug 11 17:38	23° Ω 37'34	1.33839 AU		10168 Jul 03 15:54	0 \circ \odot	
asc. node	10167 Aug 14 18:59	29° Ω 53'47		morning set	10168 Jul 20 05:47	27° © 43'51	
	10167 Aug 14 20:10	0° m y			10168 Jul 21 11:17	$0 {\circ} \Omega$	
	10167 Aug 14 20:10	0° m)		max. Earth dist.	10168 Jul 21 11:17 10168 Jul 24 00:04		1.35599 AU
superior conj	10167 Aug 14 20:10 10167 Aug 15 22:46	0° m, 2° m, 19'00	0°11'28	max. Earth dist.			1.35599 AU
superior conj minimum elong	-	•	0°11'28 0°11'06	max. Earth dist.			
	10167 Aug 15 22:46	2° m/19'00			10168 Jul 24 00:04	4°Ω46'35 15°Ω57'19 16°Ω03'13	-0°19'18
minimum elong	10167 Aug 15 22:46 10167 Aug 15 22:11	2° m/19'00 2° m/15'55		superior conj	10168 Jul 24 00:04 10168 Jul 29 16:25	4°Ω46'35 15°Ω57'19	-0°19'18
minimum elong behind sun begin	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03	2° m/19'00 2° m/15'55 1° m/54'16		superior conj minimum elong	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35	4°Ω46'35 15°Ω57'19 16°Ω03'13	-0°19'18
minimum elong behind sun begin behind sun end	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19	2° m/19'00 2° m/15'55 1° m/54'16 2° m/37'36		superior conj minimum elong	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52	4°Ω46'35 15°Ω57'19 16°Ω03'13 19°Ω58'33	-0°19'18
minimum elong behind sun begin behind sun end	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42	0°11'06	superior conj minimum elong asc. node	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33	4°\$\Omega46'35\$ 15°\$\Omega57'19\$ 16°\$\Omega03'13\$ 19°\$\Omega58'33\$ 0°\$\mathbf{m}\$	-0°19'18
minimum elong behind sun begin behind sun end evening rise	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω	0°11'06	superior conj minimum elong asc. node	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19	4°\$\Omega 46'35\$ 15°\$\Omega 57'19\$ 16°\$\Omega 03'13\$ 19°\$\Omega 58'33\$ 0°\$\Omega 2°\$\Omega 07'29\$	-0°19'18
minimum elong behind sun begin behind sun end evening rise evening max el	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω 20° Ω 57'04	0°11'06	superior conj minimum elong asc. node evening rise	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56	4° N 46'35 15° N 57'19 16° N 03'13 19° N 58'33 0° M 2° M 07'29 0° Ω	-0°19'18 0°19'25
minimum elong behind sun begin behind sun end evening rise evening max el desc. node	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13	0°11'06	superior conj minimum elong asc. node evening rise evening max el	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° ነው 2° ነው 07'29 0° Ω 1° Ω43'20	-0°19'18 0°19'25
minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16	0°11'06 21°38'23	superior conj minimum elong asc. node evening rise evening max el desc. node	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° m 2° m07'29 0° <u>Ω</u> 1° <u>Ω</u> 43'20 7° <u>Ω</u> 03'01	-0°19'18 0°19'25
minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44 10167 Sep 27 14:06	2° № 19'00 2° № 15'55 1° № 54'16 2° № 37'36 17° № 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16 26° Ω 47'56 22° Ω 50'56	0°11'06 21°38'23 -5°02'47	superior conj minimum elong asc. node evening rise evening max el desc. node retrograde	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07 10168 Sep 04 08:33	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° m 2° m 07'29 0° Ω 1° Ω43'20 7° Ω03'01 7° Ω04'25	-0°19'18 0°19'25 20°14'55
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minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44 10167 Sep 27 14:06 10167 Oct 06 15:52 10167 Oct 06 07:08	2° M 19'00 2° M 15'55 1° M 54'16 2° M 37'36 17° M 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16 26° Ω 47'56 22° Ω 50'56 23° Ω 03'09	0°11'06 21°38'23 -5°02'47 5°00'52	superior conj minimum elong asc. node evening rise evening max el desc. node retrograde evening set inferior conj	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 29 17:35 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07 10168 Sep 04 08:33 10168 Sep 06 07:57 10168 Sep 15 09:46	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° የ	-0°19'18 0°19'25 20°14'55 -3°31'14
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minimum elong behind sun begin behind sun end 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 desc. node	10167 Aug 15 22:46 10167 Aug 15 22:11 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44 10167 Sep 27 14:06 10167 Oct 06 15:52 10167 Oct 06 07:08 10167 Oct 15 01:13 10167 Oct 18 16:53 10167 Oct 31 01:58 10167 Nov 10 19:18 10167 Nov 10 19:18 10167 Nov 22 01:51 10167 Nov 28 13:36 10167 Dec 06 18:33 10167 Dec 06 18:33 10167 Dec 06 12:48 10167 Dec 06 12:48 10167 Dec 14 16:09 10167 Dec 24 01:21	2° M 19'00 2° M 15'55 1° M 54'16 2° M 37'36 17° M 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16 26° Ω 47'56 22° Ω 50'56 23° Ω 03'09 22° Ω 54'19 19° Ω 02'17 18° Ω 33'17 24° Ω 25'46 0° M 8° M 21'14 28° M 42'57 0° 🕏 7 13° 🕏 48'43 13° ¬○ 52'49 0° ¬○ 52'49 0° ¬○ 54'100 0° ≈	0°11'06 21°38'23 -5°02'47 5°00'52 0.54658 AU 22°07'26 1°37'41 1°38'05 1.34372 AU	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	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 31 15:52 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07 10168 Sep 04 08:33 10168 Sep 06 07:57 10168 Sep 15 09:46 10168 Sep 15 09:42 10168 Sep 16 22:23 10168 Sep 20 16:58 10168 Sep 20 16:58 10168 Sep 23 16:36 10168 Sep 28 02:33 10168 Oct 05 05:27 10168 Oct 11 14:54 10168 Oct 27 16:13 10168 Oct 29 06:31 10168 Nov 14 20:02 10168 Nov 11 20:02 10168 Nov 12 13:15 10168 Nov 14 07:02 10168 Nov 19 08:56	4° \$\alpha 46'35\$ 15° \$\alpha 557'19\$ 16° \$\alpha 03'13\$ 19° \$\alpha 58'33\$ 0° \$\mathred{m}\$ 2° \$\mathred{m} 07'29\$ 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega} 43'20\$ 7° \$\oldsymbol{\Omega} 03'01\$ 7° \$\oldsymbol{\Omega} 04'25\$ 6° \$\oldsymbol{\Omega} 56'16\$ 3° \$\oldsymbol{\Omega} 09'38\$ 2° \$\oldsymbol{\Omega} 02'15\$ 30° \$\mathred{m}\$ \$\mathred{m} 07'08\$ 0° \$\oldsymbol{\Omega}\$ 4° \$\oldsymbol{\Omega} 42'21\$ 27° \$\oldsymbol{\Omega} 02'36\$ 0° \$\mathred{m}\$ 13° \$\mathred{m} 31'22\$ 28° \$\mathred{m} 26'47\$ 0° \$\star\$ 3° \$\textit{\Omega} 44'28\$ 14° \$\star 17'28\$	-0°19'18 0°19'25 20°14'55 -3°31'14 3°28'14 0.54877 AU 23°53'58
minimum elong behind sun begin behind sun end 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 desc. node	10167 Aug 15 22:46 10167 Aug 15 18:03 10167 Aug 15 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44 10167 Sep 27 14:06 10167 Oct 06 15:52 10167 Oct 06 07:08 10167 Oct 15 01:13 10167 Oct 18 16:53 10167 Oct 31 01:58 10167 Nov 10 19:18 10167 Nov 10 19:18 10167 Nov 22 01:51 10167 Nov 28 13:36 10167 Nov 28 13:36 10167 Dec 06 18:33 10167 Dec 06 18:33 10167 Dec 06 12:48 10167 Dec 14 16:09 10167 Dec 24 01:21 10168 Jan 10 18:28	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16 26° Ω 47'56 22° Ω 50'56 23° Ω 03'09 22° Ω 54'19 19° Ω 02'17 18° Ω 33'17 24° Ω 25'46 0° m 8° m 21'14 28° m 42'57 0° ズ 13° ズ 48'43 13° ズ 54'14 21° ズ 43'19 0° ♂ 27'49 0° ♂ 14° ♂ 554'00 0° ≈ 22° ≈ 15'36	0°11'06 21°38'23 -5°02'47 5°00'52 0.54658 AU 22°07'26 1°37'41 1°38'05	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	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 31 15:52 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07 10168 Sep 04 08:33 10168 Sep 06 07:57 10168 Sep 15 09:46 10168 Sep 15 00:42 10168 Sep 16 22:23 10168 Sep 20 16:58 10168 Sep 20 16:58 10168 Sep 23 16:36 10168 Sep 28 02:33 10168 Oct 05 05:27 10168 Oct 11 14:54 10168 Oct 27 16:13 10168 Nov 14 120:02 10168 Nov 11 20:02 10168 Nov 11 20:02 10168 Nov 14 07:02 10168 Nov 19 08:56 10168 Nov 19 08:56 10168 Nov 19 08:56	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° m 2° m07'29 0° Ω 1° Ω43'20 7° Ω03'01 7° Ω04'25 6° Ω54'25 2° Ω56'16 3° Ω09'38 2° Ω02'15 30° R m 28° m07'08 0° Ω 4° Ω42'21 27° Ω02'36 0° m 13° m31'22 28° m26'47 0° ズ 3° ズ44'28 14° ズ17'28 0° ጜ	-0°19'18 0°19'25 20°14'55 -3°31'14 3°28'14 0.54877 AU 23°53'58
minimum elong behind sun begin behind sun end 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 desc. node	10167 Aug 15 22:46 10167 Aug 15 18:03 10167 Aug 16 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44 10167 Sep 27 14:06 10167 Oct 06 15:52 10167 Oct 06 07:08 10167 Oct 15 01:13 10167 Oct 18 16:53 10167 Oct 31 01:58 10167 Nov 10 19:18 10167 Nov 10 19:18 10167 Nov 22 01:51 10167 Nov 28 13:36 10167 Nov 28 13:36 10167 Dec 06 18:33 10167 Dec 06 18:33 10167 Dec 06 12:48 10167 Dec 14 16:09 10167 Dec 24 01:21 10168 Jan 10 18:28 10168 Jan 24 00:43	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16 26° Ω 47'56 22° Ω 50'56 23° Ω 03'09 22° Ω 54'19 19° Ω 02'17 18° Ω 33'17 24° Ω 25'46 0° m 8° m 21'14 28° m 42'57 0° ズ 13° ズ 48'43 13° ズ 54'14 21° ズ 43'19 0° ♂ 27'49 0° ♂ 14° ♂ 554'00 0° ≈ 22° ≈ 15'36 29° ≈ 36'41	0°11'06 21°38'23 -5°02'47 5°00'52 0.54658 AU 22°07'26 1°37'41 1°38'05 1.34372 AU	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.	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 31 15:52 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07 10168 Sep 04 08:33 10168 Sep 06 07:57 10168 Sep 15 09:46 10168 Sep 15 00:42 10168 Sep 15 00:42 10168 Sep 20 16:58 10168 Sep 20 16:58 10168 Sep 23 16:36 10168 Sep 28 02:33 10168 Oct 05 05:27 10168 Oct 11 14:54 10168 Oct 27 16:13 10168 Nov 14 120:02 10168 Nov 11 20:02 10168 Nov 11 20:02 10168 Nov 14 07:02 10168 Nov 19 08:56 10168 Nov 27 16:15 10168 Nov 27 16:15 10168 Nov 30 13:12	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° m 2° m07'29 0° Ω 1° Ω43'20 7° Ω03'01 7° Ω04'25 6° Ω54'25 2° Ω56'16 3° Ω09'38 2° Ω02'15 30° R m 28° m 49'09 28° m 49'09 28° m 20'36 0° Ω 13° M 31'22 28° M 27'39 28° M 26'47 0° ズ 3° ズ 44'28 14° ズ 17'28 0° ℧ 4° ℧ 557'50	-0°19'18 0°19'25 20°14'55 -3°31'14 3°28'14 0.54877 AU 23°53'58
minimum elong behind sun begin behind sun end 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 desc. node	10167 Aug 15 22:46 10167 Aug 15 18:03 10167 Aug 15 02:19 10167 Aug 23 05:57 10167 Aug 29 06:50 10167 Sep 12 11:18 10167 Sep 17 17:52 10167 Sep 24 19:44 10167 Sep 27 14:06 10167 Oct 06 15:52 10167 Oct 06 07:08 10167 Oct 15 01:13 10167 Oct 18 16:53 10167 Oct 31 01:58 10167 Nov 10 19:18 10167 Nov 10 19:18 10167 Nov 22 01:51 10167 Nov 28 13:36 10167 Nov 28 13:36 10167 Dec 06 18:33 10167 Dec 06 18:33 10167 Dec 06 12:48 10167 Dec 14 16:09 10167 Dec 24 01:21 10168 Jan 10 18:28	2° m 19'00 2° m 15'55 1° m 54'16 2° m 37'36 17° m 47'42 0° Ω 20° Ω 57'04 25° Ω 04'13 27° Ω 05'16 26° Ω 47'56 22° Ω 50'56 23° Ω 03'09 22° Ω 54'19 19° Ω 02'17 18° Ω 33'17 24° Ω 25'46 0° m 8° m 21'14 28° m 42'57 0° ズ 13° ズ 48'43 13° ズ 54'14 21° ズ 43'19 0° ♂ 27'49 0° ♂ 14° ♂ 554'00 0° ≈ 22° ≈ 15'36	0°11'06 21°38'23 -5°02'47 5°00'52 0.54658 AU 22°07'26 1°37'41 1°38'05 1.34372 AU	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	10168 Jul 24 00:04 10168 Jul 29 16:25 10168 Jul 31 15:52 10168 Jul 31 15:52 10168 Aug 05 12:33 10168 Aug 06 13:19 10168 Aug 22 22:56 10168 Aug 24 13:45 10168 Sep 03 15:07 10168 Sep 04 08:33 10168 Sep 06 07:57 10168 Sep 15 09:46 10168 Sep 15 00:42 10168 Sep 16 22:23 10168 Sep 20 16:58 10168 Sep 20 16:58 10168 Sep 23 16:36 10168 Sep 28 02:33 10168 Oct 05 05:27 10168 Oct 11 14:54 10168 Oct 27 16:13 10168 Nov 14 120:02 10168 Nov 11 20:02 10168 Nov 11 20:02 10168 Nov 14 07:02 10168 Nov 19 08:56 10168 Nov 19 08:56 10168 Nov 19 08:56	4° Ω46'35 15° Ω57'19 16° Ω03'13 19° Ω58'33 0° m 2° m07'29 0° Ω 1° Ω43'20 7° Ω03'01 7° Ω04'25 6° Ω54'25 2° Ω56'16 3° Ω09'38 2° Ω02'15 30° R m 28° m07'08 0° Ω 4° Ω42'21 27° Ω02'36 0° m 13° m31'22 28° m26'47 0° ズ 3° ズ44'28 14° ズ17'28 0° ጜ	-0°19'18 0°19'25 20°14'55 -3°31'14 3°28'14 0.54877 AU 23°53'58 1°40'04 1°40'27 1.32959 AU

ratra ara da	10160 Ion 05 22:10	1200050110		ovening set	10160 Dec 26 12:29	220至22110	
retrograde evening set	10169 Jan 05 22:10 10169 Jan 12 20:25	12°≈58'18 10°≈26'33		evening set min. Earth dist.	10169 Dec 26 13:28 10169 Dec 30 06:22	23°る22'10 20°る26'49	0.62092 AU
min. Earth dist.	10169 Jan 16 15:32	7°≈04'31	0.64028 AU	inferior conj	10109 Dec 30 00:22 10170 Jan 02 05:21	17°る42'33	
inferior conj	10169 Jan 19 04:51	4°≈25'09		minimum elong	10170 Jan 02 03:21 10170 Jan 02 10:42	17 84233	
minimum elong	10169 Jan 19 07:38	4°≈17'53	1°26'56	morning rise	10170 Jan 02 10:42	17 さ 30 00	2 37 00
asc. node	10169 Jan 23 15:35	0°≈19'24	1 2030	asc. node	10170 Jan 10 12:41	12° る 22'45	
use. Houe	10169 Jan 24 02:51	30°Rる		direct	10170 Jan 11 15:54	12° る 16'59	
morning rise	10169 Jan 25 20:46	29° පි 03'57		morning max el	10170 Jan 18 11:51	15° පි 45'13	17°48'59
direct	10169 Jan 28 07:47	28° ට 33'41			10170 Jan 28 11:02	0° ≈	
	10169 Feb 01 11:49	0° ≈		morning set	10170 Feb 03 06:57	10° ≈ 16′28	
morning max el	10169 Feb 03 18:51	1° ≈ 54'41	17°49'49	desc. node	10170 Feb 13 09:51	28° ≈ 02'19	
morning set	10169 Feb 20 13:14	27° ≈ 16′26					
	10169 Feb 22 03:46	0°) €		superior conj	10170 Feb 14 12:04	29° ≈ 53'53	-0°08'15
desc. node	10169 Feb 26 13:04	7°) 23′17		minimum elong	10170 Feb 14 11:19	29° ≈ 50'39	0°07'51
				behind sun begin	10170 Feb 14 03:37	29° ≈ 17'58	
superior conj	10169 Mar 05 14:22	18° ¥ 59′26	-0°50'47	behind sun end	10170 Feb 14 19:01	0° ¥ 23'16	
minimum elong	10169 Mar 05 08:49	18°) 36′59	0°49'52		10170 Feb 14 13:31	0° ∀	
max. Earth dist.	10169 Mar 10 21:57	27° ¥ 29'57	1.44890 AU	max. Earth dist.	10170 Feb 21 13:42	11° ¥ 36′39	1.43551 AU
	10169 Mar 12 11:58	0° Y		evening rise	10170 Feb 28 22:37	23° ¥ 18′20	
evening rise	10169 Mar 21 08:01	13° Ƴ 43'14			10170 Mar 05 07:03	0° Y	
	10169 Apr 01 02:26	0 \circ 8			10170 Mar 26 08:05	$0^{\circ}S$	
evening max el	10169 Apr 18 04:31	22° 8 54'04	20°21'11	evening max el	10170 Apr 01 01:41	6° 8 36'24	21°32'01
asc. node	10169 Apr 21 13:46	25° 8 49'23		asc. node	10170 Apr 08 10:56	11° 8 41'21	
retrograde	10169 Apr 26 02:47	27° 8 30'02		retrograde	10170 Apr 10 01:02	11° 8 53'48	
evening set	10169 Apr 30 02:01	25° 8 59'16		evening set	10170 Apr 14 10:25	10° 8 07'41	
inferior conj	10169 May 05 09:16	19° 8 54'03	3°12'53	inferior conj	10170 Apr 19 17:20	3° 8 51'27	
minimum elong	10169 May 05 08:14	19° 8 57'33	3°12'27	minimum elong	10170 Apr 19 15:33	3° 8 57'39	
min. Earth dist.	10169 May 06 03:11	18° 8 52'49	0.67903 AU	min. Earth dist.	10170 Apr 19 22:04	3° 8 34'55	0.68473 AU
morning rise	10169 May 10 14:13	13° 8 36'03			10170 Apr 22 14:41	30° ₹ Υ	
direct	10169 May 16 05:06	11° 8 06'03		morning rise	10170 Apr 24 20:29	27° Y 37'32	
desc. node	10169 May 25 13:36	15° 8 58'51	24024157	direct	10170 Apr 29 22:04	25° Y 25'18	
morning max el	10169 May 27 13:43	17° 8 54'31 0° Ⅱ	24°24'57		10170 May 08 13:13	0° と 1° と 23'40	22954150
	10169 Jun 06 16:45	0.2 0.П		morning max el	10170 May 09 23:51	4° 8 00'10	22°54'59
marning gat	10169 Jun 26 17:06 10169 Jul 02 07:06	0°9528'11		desc. node	10170 May 12 10:29 10170 May 31 14:59	4° 3 00°10	
morning set max. Earth dist.	10169 Jul 02 07:06 10169 Jul 05 22:32	9 9 2 8 1 1 15° 9 5 5 ' 5 2	1.37720 AU	morning set	10170 May 31 14.39 10170 Jun 13 08:36	0 H 20°H05'24	
max. Earth dist.	10109 Jul 03 22.32	15 95552	1.37720 AU	max. Earth dist.	10170 Jun 13 08:30	20 H 03 24 27° H 34'10	1.40003 AU
superior conj	10169 Jul 12 22:44	29° © 00'59	-0°52'10	max. Larm dist.	10170 Jun 19 04:59	0°95	1.40003 AC
minimum elong	10169 Jul 12 22:44 10169 Jul 13 02:08	29° © 17'24			101/0 Juli 17 04.37	0 3	
minimum ciong	10169 Jul 13 10:57	0°Ω	0 313)	superior conj	10170 Jun 25 13:36	11° © 19'33	-1°24'37
asc. node	10169 Jul 18 12:46	9° Ω 58'48		minimum elong	10170 Jun 25 19:10	11°9544'57	1°24'18
evening rise	10169 Jul 21 15:06	16° Ω 08'43		evening rise	10170 Jul 05 08:05	29°\$42'04	
<i>y</i> 21	10169 Jul 28 21:29	0° m)		asc. node	10170 Jul 05 09:43	29°5549'48	
evening max el	10169 Aug 07 05:54	13° m) 16'26	19°11'50		10170 Jul 05 11:51	$0^{\circ}\Omega$	
retrograde	10169 Aug 16 08:41	17° m) 48'12		evening max el	10170 Jul 21 09:04	25° Ω 32'20	18°29'54
evening set	10169 Aug 18 05:07	17° m 37'46		retrograde	10170 Jul 29 02:59	29° Ω 24'56	
desc. node	10169 Aug 21 12:21	16° Mp 32'20		evening set	10170 Jul 31 04:55	29° Ω 09'00	
inferior conj	10169 Aug 26 17:26	13° m 26'44	-1°37'06	inferior conj	10170 Aug 07 22:01	24° Ω 38'36	0°08'46
minimum elong	10169 Aug 26 13:10	13° m 33'55	1°35'36	minimum elong	10170 Aug 07 22:20	24° Ω 37'59	0°08'21
min. Earth dist.	10169 Aug 29 11:20	11°M)36'33	0.56011 AU	transit middle	10170 Aug 07 22:20	24° Ω 37'59	0°08'21
morning rise	10169 Sep 03 18:17	8° m 44'57		transit begin	10170 Aug 07 19:16	24° Ω 43'59	
direct	10169 Sep 08 23:43	7° m 41'52		transit end	10170 Aug 08 01:24	24° Ω 31'57	
morning max el	10169 Sep 23 03:05	14° m 53'13	25°36'33	desc. node	10170 Aug 08 09:34	24° Ω 15′52	
	10169 Oct 05 04:41	0∘ ⊽		min. Earth dist.	10170 Aug 11 05:38	22° Ω 03'27	0.57844 AU
asc. node	10169 Oct 14 13:05	16° △ 14'13		morning rise	10170 Aug 15 12:12	19° Ω 19'59	
morning set	10169 Oct 20 10:22	28° ≙ 15'59		direct	10170 Aug 21 11:41	17° Ω 48'37	
	10169 Oct 21 05:45	0° M		morning max el	10170 Sep 04 20:08	25° Ω 25'53	26°58'06
	10160 0 + 27 06 22	120M 1422	1027110		10170 Sep 09 02:19	0° m)	
superior conj	10169 Oct 27 06:22	13°M 14'23	1°36'19	000 mc J-	10170 Sep 28 11:11	0° Ω 5° Ω 47!24	
minimum elong max. Earth dist.	10169 Oct 27 05:10 10169 Oct 28 11:51	13°M07'49	1°36'32 1.32009 AU	asc. node	10170 Oct 01 09:56	5° Ω 47'34 12° Ω 51'38	
		15°M56'55 28°M29'39	1.34009 AU	morning set	10170 Oct 04 19:48	12 == 31 38	
evening rise	10169 Nov 03 08:07 10169 Nov 04 01:37	28°11⊾29'39 0° √ 1		superior conj	10170 Oct 11 18:03	28° ≏ 02'15	1°26'53
desc. node	10169 Nov 04 01:37 10169 Nov 17 10:18	0° x ° 24° ∡ 736′18		minimum elong	10170 Oct 11 18:03 10170 Oct 11 16:08	28° 2 602′13 27° 2 51'36	1°26'52
acse. Houc	10169 Nov 20 21:01	24 メ ・30 18		max. Earth dist.	10170 Oct 11 10:08 10170 Oct 11 20:39	27 ⊆ 31 30 28° ⊆ 16'46	1.31537 AU
evening max el	10169 Nov 20 21:01 10169 Dec 05 16:17	18° る 25'46	27°26'25	max. Darm dist.	10170 Oct 11 20:39 10170 Oct 12 15:13	0°M	1.5155 AU
retrograde	10169 Dec 19 12:34	18 3 23 40 25° 3 42'35	2, 2020	evening rise	10170 Oct 12 13:13 10170 Oct 18 13:29	12°M56'56	
	110, 200 1, 12.54	2 .5			11.1.500 10 15.27	1100000	

	10170 0 + 27 02 55	00.7			10171 0 + 02 22 40	270 0 2210 (
	10170 Oct 27 03:55	0° ⊼		evening rise	10171 Oct 02 22:48	27° ≏ 33'06	
desc. node	10170 Nov 04 07:28	13° ∡ ³39′09			10171 Oct 04 02:23	0°M₊	
	10170 Nov 17 07:06	0°ප			10171 Oct 20 20:37	0° ∡ ¹	
evening max el	10170 Nov 17 20:15	0° る 31'31	26°52'28	desc. node	10171 Oct 22 04:40	1° ∡ 52′12	
retrograde	10170 Dec 01 18:33	7° る 40'39		evening max el	10171 Oct 30 16:25	11° ∡ ¹45'54	25°45'25
evening set	10170 Dec 08 14:22	5° ರ 41'37		retrograde	10171 Nov 13 14:00	18° ∡ ′47′03	
min. Earth dist.	10170 Dec 12 10:40	3° ප 03'10	0.59992 AU	evening set	10171 Nov 19 18:23	17° ∡ 17'58	
inferior conj	10170 Dec 15 14:46	0° る 28'53	-3°55'46	min. Earth dist.	10171 Nov 24 04:56	14° ∡ °41'40	0.57925 AU
minimum elong	10170 Dec 15 22:16	0° る 13'38	3°52'57	inferior conj	10171 Nov 27 05:40	12° ∡ ³33'47	-5°00'58
	10170 Dec 16 05:01	30°R .✓ ¹		minimum elong	10171 Nov 27 13:05	12° ∡ ′20'42	4°59'00
morning rise	10170 Dec 23 08:48	25° × ⁷ 45'40		morning rise	10171 Dec 05 10:08	8°×7'13'05	1 37 00
direct	10170 Dec 25 00:40	25°×728'23		direct	10171 Dec 03 16:19	7° × 7' 57'03	
asc. node		26° × 01'42		asc. node			
	10170 Dec 28 09:45		10007110		10171 Dec 15 06:48	11° 🖈 12'39	10046102
morning max el	10171 Jan 02 01:01	29° ∡ 12'59	18°07'10	morning max el	10171 Dec 16 06:33	12° ∡ ¹06'53	18°46'03
	10171 Jan 02 19:24	0° ප			10171 Dec 28 06:06	0°₹	
morning set	10171 Jan 17 16:43	24° පි 01'31		morning set	10172 Jan 01 13:28	8° る 15'54	
	10171 Jan 20 21:24	0° ≈					
				superior conj	10172 Jan 10 04:15	24° る 56'44	0°58'46
superior conj	10171 Jan 27 10:09	11° ≈ 57'22	0°29'12	minimum elong	10172 Jan 10 07:23	25° る 11'32	0°58'44
minimum elong	10171 Jan 27 12:21	12° ≈ 07'11	0°29'13		10172 Jan 12 21:17	0° ≈	
desc. node	10171 Jan 31 06:42	18° ≈ 44'52		max. Earth dist.	10172 Jan 17 08:45	8° ≈ 03'59	1.39568 AU
max. Earth dist.	10171 Feb 04 01:11	25°≈10'46	1.41709 AU	desc. node	10172 Jan 18 03:36	9° ≈ 26'42	
max. Latin dist.	10171 Feb 06 22:55	0° \	1.11707110	evening rise	10172 Jan 21 08:15	14°≈56'08	
avanina rica	10171 Feb 00 22:55 10171 Feb 09 04:52	3° ¥ 39'17		evening rise	10172 Jan 30 15:47	0° \	
evening rise		3 γ (3917				0°Υ	
	10171 Feb 26 14:49	• •	220.5012.6		10172 Feb 21 11:40		2 404 012 0
evening max el	10171 Mar 14 18:30	20° Y 21'38	22°50'26	evening max el	10172 Feb 25 08:42	4° Υ 09'41	24°10'39
retrograde	10171 Mar 24 21:15	26° Y 20′33		retrograde	10172 Mar 07 14:07	10° Y 44'53	
asc. node	10171 Mar 26 08:08	26° Y 10′15		asc. node	10172 Mar 12 05:20	9° Y 05'02	
evening set	10171 Mar 29 17:51	24° Ƴ 19'38		evening set	10172 Mar 12 22:46	8° Ƴ 30'25	
inferior conj	10171 Apr 04 02:23	17° Ƴ 55'16	2°29'06	min. Earth dist.	10172 Mar 17 14:58	3° Ƴ 07'42	0.68303 AU
minimum elong	10171 Apr 04 00:14	18° Ƴ 02'46	2°28'27	inferior conj	10172 Mar 18 10:34	2° Y 01'32	1°53'01
min. Earth dist.	10171 Apr 03 18:45	18° Ƴ 21'46	0.68604 AU	minimum elong	10172 Mar 18 08:27	2° Y 08'41	1°52'22
morning rise	10171 Apr 09 06:29	11° Y 46'56		_	10172 Mar 19 23:11	30° ₹	
direct	10171 Apr 13 18:33	9° Y 55'50		morning rise	10172 Mar 23 18:11	26° ₩ 00'08	
morning max el	10171 Apr 22 13:53	15° Y '02'09	21°28'54	direct	10172 Mar 27 17:11	24°) 31'03	
desc. node	10171 Apr 29 07:20	22°Υ51'36	21 203 .	morning max el	10172 Apr 04 10:55	28°\ 52'46	20°13'18
desc. Hode	10171 May 04 14:39	0°8		morning max cr	10172 Apr 04 10:33 10172 Apr 05 13:03	0°Υ	20 13 10
	•			J J.	•	12° Υ 19'12	
morning set	10171 May 24 07:21	29° 8 29'31		desc. node	10172 Apr 15 04:10		
	10171 May 24 15:02	0°II			10172 Apr 27 03:43	0° 8	
max. Earth dist.	10171 May 30 20:50	10°Щ05'11	1.42175 AU	morning set	10172 May 02 09:28	8° 8 01'03	
				max. Earth dist.	10172 May 12 06:00	23° 8 29'42	1.43958 AU
superior conj	10171 Jun 07 08:34	22° Ⅱ 43'21			10172 May 16 06:41	Π °0	
minimum elong	10171 Jun 07 14:50	23° Ⅱ 10′28	1°52'25				
	10171 Jun 11 12:14	0 \circ \odot		superior conj	10172 May 18 03:45	3° Ⅱ 04'22	-2°10'06
evening rise	10171 Jun 18 12:26	12° © 38'20		minimum elong	10172 May 18 07:10	3° Ⅱ 18′27	2°10'22
asc. node	10171 Jun 22 06:42	19° 5 27'19		evening rise	10172 May 30 23:27	24° Ⅱ 46′38	
	10171 Jun 28 10:41	$0^{\circ}\Omega$		-	10172 Jun 02 23:53	0ංම	
evening max el	10171 Jul 04 19:16	8° Ω 21'47	18°08'13	asc. node	10172 Jun 08 03:45	8°945'50	
retrograde	10171 Jul 11 15:39	11° Ω 50'35		evening max el	10172 Jun 17 08:38	21° © 34'46	18°05'48
evening set	10171 Jul 14 01:20	11° Ω 25'18		retrograde	10172 Jun 23 18:46	24°955'15	
inferior conj	10171 Jul 20 23:50	6°Ω34'10	1°30'52	evening set	10172 Jun 26 12:13	24°917'55	
-		6° Ω 28'23	1°29'40	-			2°27'06
minimum elong	10171 Jul 21 02:22			inferior conj	10172 Jul 02 19:36	19°507'31	
min. Earth dist.	10171 Jul 24 07:00	3° Ω 34'33	0.60048 AU	minimum elong	10172 Jul 02 22:20	19°900'21	2°26'00
desc. node	10171 Jul 26 06:44	1° £ 57'32		min. Earth dist.	10172 Jul 05 17:15	16°906'36	0.62299 AU
morning rise	10171 Jul 28 00:28	0° Ω 46′06		morning rise	10172 Jul 09 06:27	13° © 00'14	
	10171 Jul 29 09:50	30° ₹ 5		desc. node	10172 Jul 12 03:52	11° 5 21'19	
direct	10171 Aug 03 12:22	28°545'08		direct	10172 Jul 15 23:31	10°934'43	
	10171 Aug 08 20:32	$0^{\circ}\Omega$		morning max el	10172 Jul 30 02:26	18° 5 36'49	27°55'52
morning max el	10171 Aug 17 20:10	6° Ω 38'49	27°46'10		10172 Aug 08 16:38	$0^{\circ}\Omega$	
	10171 Sep 04 10:08	0° m)			10172 Aug 27 06:59	0° m	
asc. node	10171 Sep 18 06:47	25° m/36'30		morning set	10172 Sep 02 01:26	11° Mp 16'42	
morning set	10171 Sep 19 01:29	27° m 13'41		asc. node	10172 Sep 04 03:39	15° m) 35'44	
Č	10171 Sep 20 09:04	0∘ <u>⊽</u>		max. Earth dist.	10172 Sep 07 11:51	22° m/42'22	1.32039 AU
max. Earth dist.	10171 Sep 25 05:56	0 — 10° Ω 35'28	1.31547 AU				
	22.1.2 0 p 2 0 00.00			superior conj	10172 Sep 09 14:42	27° m 19'05	0°52'13
superior conj	10171 Sep 26 05:26	12° ≏ 45'39	1°12'06	minimum elong	10172 Sep 09 12:38	27° m) 07'48	0°51'47
minimum elong	10171 Sep 26 03:20 10171 Sep 26 03:12	12 = 43 39 12° £ 33'15		minimum clong	10172 Sep 09 12:38 10172 Sep 10 20:02	2/ 110/0/48 0° ჲ	J J17/
mmmum ciong	101/1 Sep 20 03.12	12 -33 13	1 11 7/		10172 Sep 10 20.02	· —	

10173 Aug 24 18:28

11°Mp28'50

0°27'08

minimum elong

superior conj	10174 Aug 08 18:22	25° Ω 30'27	-0°01'15	max. Earth dist.	10175 Jul 17 00:24	26° © 47'37	1.36470 AU
minimum elong	10174 Aug 08 18:27	25° Ω 30′52	0°01'30		10175 Jul 18 17:17	$0^{\circ}\Omega$	
behind sun begin	10174 Aug 08 12:37	25° Ω 00'47					
behind sun end	10174 Aug 09 00:17	26° Ω 01'01		superior conj	10175 Jul 23 07:37	8° Ω 55'12	-0°33'07
asc. node	10174 Aug 08 21:22	25° Ω 45'57		minimum elong	10175 Jul 23 09:42	9°Ω05'30	
asc. node	•			Č		15°Ω49'19	0 33 03
	10174 Aug 10 22:11	0° my		asc. node	10175 Jul 26 18:16		
evening rise	10174 Aug 16 06:46	11° m 15'03		evening rise	10175 Jul 31 12:02	25° Ω 27'31	
	10174 Aug 26 00:25	0∘ ⊽			10175 Aug 02 18:16	0° m ⁄	
evening max el	10174 Sep 04 11:19	12° ≏ 46'15	21°00'38	evening max el	10175 Aug 17 19:49	23° m 52'24	19°45'29
desc. node	10174 Sep 11 20:21	17° ≏ 47'52		retrograde	10175 Aug 27 20:52	28° m 51'14	
retrograde	10174 Sep 16 05:07	18° ≏ 35'36		evening set	10175 Aug 29 17:38	28° Mp 41'42	
evening set	10174 Sep 18 12:55	18° ≏ 22'49		desc. node	10175 Aug 29 17:33	28° Mp 41'44	
inferior conj	10174 Sep 27 16:43	14° Ω 27'13	-4°28'56	inferior conj	10175 Sep 07 14:59	24° m) 39'37	-2°43'26
•	•	14° ⊆ 2713	4°26'15	,		24° my 50'55	
minimum elong	10174 Sep 27 06:53			minimum elong	10175 Sep 07 07:40	-•	
min. Earth dist.	10174 Sep 28 07:38	14° Ω 06'06	0.54631 AU	min. Earth dist.	10175 Sep 09 17:59	23° m 20'54	0.55261 AU
morning rise	10174 Oct 06 01:08	10° ≏ 32'49		morning rise	10175 Sep 15 19:51	20° m 19'08	
direct	10174 Oct 10 00:16	9° ≏ 59'02		direct	10175 Sep 20 14:25	19° ™ 28'55	
morning max el	10174 Oct 22 22:43	16° ≏ 11'03	22°52'06	morning max el	10175 Oct 04 10:09	26° Mp 20'31	24°39'09
	10174 Nov 02 18:26	0°M₊			10175 Oct 07 22:15	0∘ ত	
asc. node	10174 Nov 04 21:43	3°MJ33'11		asc. node	10175 Oct 22 18:36	22° ≏ 28'43	
morning set	10174 Nov 14 13:19	22°M20'44			10175 Oct 26 15:02	0°M₊	
morning sec	10174 Nov 18 03:01	0° √		morning set	10175 Oct 30 01:06	7°M08'10	
	101/4 NOV 16 03.01	0 🗴		morning set	10173 Oct 30 01.00	/ 11600 10	
:	10174 N 21 12-01	79.701114	1920/29		10175 N 05 21-22	220 m 04122	1920112
superior conj	10174 Nov 21 13:01	7°×721'14		superior conj	10175 Nov 05 21:23	22°M04'22	1°39'12
minimum elong	10174 Nov 21 13:32	7° ∡ ¹24'02 −	1°39'53	minimum elong	10175 Nov 05 20:46	22°M00'56	1°39'31
max. Earth dist.	10174 Nov 24 17:53	14° ∡ 07'19	1.33714 AU	max. Earth dist.	10175 Nov 07 19:13	26° ™ 14'05	1.32498 AU
evening rise	10174 Nov 29 10:21	23° ∡ ³37'14			10175 Nov 09 13:13	0° ∡ 7	
	10174 Dec 02 18:02	8°0		evening rise	10175 Nov 13 04:51	7° ∡ ³37'57	
desc. node	10174 Dec 08 18:34	10° る 47'47			10175 Nov 25 05:30	0°る	
	10174 Dec 21 03:56	0° ≈		desc. node	10175 Nov 25 15:38	0° る 42'14	
evening max el	10175 Jan 03 00:34	15° ≈ 18'46	27°13'12	evening max el	10175 Dec 16 12:17	28° る 29'17	27°30'41
retrograde	10175 Jan 16 11:39	22°≈41'30	27 13 12	evening max er	10175 Dec 18 04:12	0°≈	27 30 41
•				. 1			
evening set	10175 Jan 23 05:38	20°≈07'34		retrograde	10175 Dec 30 06:08	5°≈48'44	
min. Earth dist.	10175 Jan 27 03:15	16° ≈ 27'19	0.65011 AU	evening set	10176 Jan 06 06:09	3° ≈ 21′01	
inferior conj	10175 Jan 29 10:03	13° ≈ 56′05	-0°48'54	min. Earth dist.	10176 Jan 10 00:04	0° ≈ 10'58	0.63230 AU
minimum elong	10175 Jan 29 11:30	13° ≈ 52′03	0°47'57		10176 Jan 10 04:37	30°Ŗる	
asc. node	10175 Jan 31 20:55	11° ≈ 20'31		inferior conj	10176 Jan 12 17:41	27° る 28'14	-1°58'58
morning rise	10175 Feb 04 18:54	8° ≈ 25'57		minimum elong	10176 Jan 12 21:33	27° る 18'38	1°56'59
direct	10175 Feb 07 10:07	7° ≈ 49'19		asc. node	10176 Jan 18 18:03	22° る 36'32	
morning max el	10175 Feb 13 19:42	11°≈10'53	17°58'16	morning rise	10176 Jan 19 15:03	22° る 13'48	
morning max er	10175 Feb 26 23:07	0° ∀	17 30 10	direct	10176 Jan 21 23:26	21° る 47'26	
							15045112
morning set	10175 Mar 03 13:23	7°) ₹35'02		morning max el	10176 Jan 28 13:16	25° る 10'26	17°47'13
desc. node	10175 Mar 06 18:34	12° ¥ 53′16			10176 Feb 01 13:46	0° ≈	
	10175 Mar 17 08:32	0° Y		morning set	10176 Feb 13 19:16	20° ≈ 02'25	
					10176 Feb 19 13:59	0°) €	
superior conj	10175 Mar 17 17:31	0° Ƴ 35'42	-1°15'14	desc. node	10176 Feb 21 15:22	3° ¥ 29′29	
minimum elong	10175 Mar 17 09:19	0° Y 03'10	1°14'12				
max. Earth dist.	10175 Mar 21 11:27	6° Ƴ 30'48	1.45368 AU	superior conj	10176 Feb 26 00:50	10°) 49'16	-0°32'25
evening rise	10175 Apr 02 19:45	25° Y 41′06	-	minimum elong	10176 Feb 25 21:26	10°) (35'17	
e vennig 115e	10175 Apr 05 15:09	0°8		max. Earth dist.	10176 Mar 03 05:53	20°) 53'46	1.44401 AU
grantast builli	-		0.6m	max. Darui Uist.		20 χ33 40 0° Υ	1.77401 AU
greatest brilliancy	10175 Apr 16 22:51	17° 8 06'48	-0.6m		10176 Mar 09 00:28		
	10175 Apr 26 10:45	$\Pi^{\circ}0$		evening rise	10176 Mar 12 07:13	5° Y ′04'37	
evening max el	10175 Apr 28 14:34	2° ∏ 21'42	19°45'51		10176 Mar 29 00:52	9° 8	
asc. node	10175 Apr 29 19:05	3° Ⅱ 29'59		evening max el	10176 Apr 10 15:01	16° 8 04'19	20°50'02
retrograde	10175 May 06 00:35	6° Ⅱ 35'58		asc. node	10176 Apr 15 16:14	20° 8 03'36	
evening set	10175 May 09 18:29	5° Ⅱ 14'15		retrograde	10176 Apr 18 23:14	20° 8 56'51	
-	10175 May 14 14:01	30°R ∀		evening set	10176 Apr 23 02:46	19° 8 19'23	
inferior conj	10175 May 15 03:00	29° 8 16'44	3°17'43	inferior conj	10176 Apr 28 09:37	13° 8 09'19	3°06'54
minimum elong	10175 May 15 03:00 10175 May 15 02:32	29° 8 18'16	3°17'19	minimum elong	10176 Apr 28 09:37	13° 8 14'06	3°06'26
•	-				-		
min. Earth dist.	10175 May 16 05:02	27° 8 49'43	0.67377 AU	min. Earth dist.	10176 Apr 28 21:47	12° 8 27'17	0.68212 AU
morning rise	10175 May 20 10:16	22° 8 57'14		morning rise	10176 May 03 13:29	6° 8 53'08	
direct	10175 May 26 08:26	20° 8 19'22		direct	10176 May 08 22:54	4° 8 30'06	
desc. node	10175 Jun 02 18:57	23° 8 26'16		desc. node	10176 May 19 15:54	10° 8 51'06	
morning max el		270 421152	25014146	morning max el	10176 May 19 18:21	10° 8 57'15	23046138
morning max cr	10175 Jun 07 08:53	27° 8 31'53	23 14 40	morning max ci	101/0 May 19 16.21	10 03/13	23 40 30
morning max er	10175 Jun 07 08:53 10175 Jun 09 16:34	2/° O 31′53	23 14 40	morning max cr	10176 Jun 03 21:55	0°Ⅱ	23 40 38
morning max er	10175 Jun 09 16:34	$\Pi^{\circ}0$	23 1440	morning max ci	10176 Jun 03 21:55	$\Pi^{\circ}0$	23 40 36
morning set			23 14 40	morning set			23 40 38

max. Earth dist.	10176 Jun 27 21:28	8° © 06'54	1.38697 AU		10177 May 07 03:20 10177 May 28 08:06	0°B	
superior conj	10176 Jul 05 07:54	21° © 41'05	-1°06'12	morning set	10177 Jun 04 15:37	11° Ⅱ 34'13	
minimum elong	10176 Jul 05 12:17		1°05'55	max. Earth dist.	10177 Jun 09 20:12	20° Ⅱ 08'44	1.40960 AU
	10176 Jul 09 16:10	$0^{\circ}\Omega$			10177 Jun 15 13:41	0°©	
asc. node	10176 Jul 12 15:10	5° Ω 46'15					
evening rise	10176 Jul 14 10:29	9° Ω 18'06		superior conj	10177 Jun 17 14:55	3° 5 38'02	-1°37'19
C	10176 Jul 26 01:10	0° m)		minimum elong	10177 Jun 17 21:04	4° © 05'30	1°37'03
evening max el	10176 Jul 30 17:05	5° m) 44'31	18°51'22	evening rise	10177 Jun 27 22:42	22° © 37'55	
retrograde	10176 Aug 08 04:26	9° m 57'55		asc. node	10177 Jun 29 12:08	25° © 32'40	
evening set	10176 Aug 10 02:47	9° m 45'35			10177 Jul 01 21:58	$0^{\circ}\Omega$	
desc. node	10176 Aug 15 14:46	7° m 16'52		evening max el	10177 Jul 13 23:42	18° Ω 16′11	18°18'13
inferior conj	10176 Aug 18 07:06	5° m 26'20	-0°49'48	retrograde	10177 Jul 21 07:13	21° Ω 57'14	
minimum elong	10176 Aug 18 05:01	5° mg 30'05	0°49'12	evening set	10177 Jul 23 12:14	21° Ω 37'48	
min. Earth dist.	10176 Aug 21 08:38	3° Mp 15'20	0.56726 AU	inferior conj	10177 Jul 30 21:06	16° Ω 58'18	0°46'49
morning rise	10176 Aug 26 03:58	0° Mp 28′47		minimum elong	10177 Jul 30 22:39	16° Ω 55′02	0°45'55
	10176 Aug 27 09:24	30° Ŗ Ω		desc. node	10177 Aug 02 11:59	14° Ω 46′07	
direct	10176 Aug 31 17:32	29° Ω 14'30		min. Earth dist.	10177 Aug 03 05:50	14° Ω 09'57	0.58751 AU
	10176 Sep 05 02:32	O° m y		morning rise	10177 Aug 07 05:40	11° Ω 25'38	
morning max el	10176 Sep 14 23:49	6° Mp 37′13	26°14'53	direct	10177 Aug 13 10:57	9° Ω 41'43	
	10176 Oct 02 05:39	0∘ ⊽		morning max el	10177 Aug 27 20:08	17° Ω 27'18	27°23'13
asc. node	10176 Oct 08 15:28	11° ≏ 50'45			10177 Sep 07 06:14	0° ™	
morning set	10176 Oct 13 11:52	21° ≏ 49'43			10177 Sep 24 18:11	0∘ ত	
	10176 Oct 17 06:02	0° M		asc. node	10177 Sep 25 12:19	1° ≏ 32'00	
				morning set	10177 Sep 27 19:58	6° ഫ 20'55	
superior conj	10176 Oct 20 08:24	6°M52'11	1°33'00				
minimum elong	10176 Oct 20 06:51	6° ™ 43'38	1°33'06	superior conj	10177 Oct 04 20:12	21° ≏ 39'12	1°21'15
max. Earth dist.	10176 Oct 21 02:21	8°M31'45	1.31750 AU	minimum elong	10177 Oct 04 18:05	21° ≏ 27'29	1°21'07
evening rise	10176 Oct 27 06:58	21°M57'25		max. Earth dist.	10177 Oct 04 11:56		1.31481 AU
	10176 Oct 31 05:36	0° ⊼			10177 Oct 08 14:30	0° M	
desc. node	10176 Nov 11 12:44	20° ∡ °07′10		evening rise	10177 Oct 11 14:16	6° ™ 29'24	
	10176 Nov 18 06:33	0° ろ			10177 Oct 23 19:17	0° ∡	
evening max el	10176 Nov 27 19:44	11°る01'24	27°16'13	desc. node	10177 Oct 29 09:54	8° ∡ 751′04	
retrograde	10176 Dec 11 16:45	18°る14'27		evening max el	10177 Nov 09 20:20	22° х 44'49	26°27'33
evening set	10176 Dec 18 16:48	16°る01'52		retrograde	10177 Nov 23 18:33	29° ₹ 51'06	
min. Earth dist.	10176 Dec 22 10:15	13° 3 15'25	0.61212 AU	evening set	10177 Nov 30 09:25	28°×703'32	0.50007.441
inferior conj	10176 Dec 25 12:11	10° ろ 33'38		min. Earth dist.	10177 Dec 04 09:50	25° ∡ 28′24	0.59097 AU
minimum elong	10176 Dec 25 18:35	10°る19'34 5°る38'22	3°10'38	inferior conj	10177 Dec 07 14:03	23°×703'01	
morning rise	10177 Jan 01 22:54			minimum elong	10177 Dec 07 21:56	22° x ⁷ 47'57	4°22'45
direct asc. node	10177 Jan 04 03:08 10177 Jan 04 15:09	5°る18'41 5°る19'45		morning rise direct	10177 Dec 15 13:03 10177 Dec 17 16:54	18° ₹ 29'40 18° ₹ 13'22	
morning max el	10177 Jan 04 15:09 10177 Jan 11 05:03		17°54'23	asc. node	10177 Dec 17 10.34 10177 Dec 22 12:14	19° х 13 22	
morning max er	10177 Jan 24 23:39	0°≈	1/ 3423	morning max el	10177 Dec 22 12:14 10177 Dec 25 15:30	22° × ⁷ 07'17	18021108
morning set	10177 Jan 24 23:39 10177 Jan 26 20:30	0 ∞ 3°≈23'52		morning max ci	10177 Dec 23 13:30 10177 Dec 31 18:24	0°る	18 21 08
morning set	10177 Jun 20 20.30	3 70.23 32		morning set	10177 Dec 31 10:24 10178 Jan 10 11:23	0 3 17° る 22'24	
superior conj	10177 Feb 06 09:17	22° ≈ 14'26	0°08'31	morning sec	10178 Jan 17 03:10	0° ≈	
minimum elong	10177 Feb 06 10:03	22°≈17'45	0°08'42		10170 0411 17 05:10		
behind sun begin	10177 Feb 06 03:02	21° ≈ 47'21		superior conj	10178 Jan 19 16:28	4° ≈ 43'25	0°42'45
behind sun end	10177 Feb 06 17:03	22°≈48'06		minimum elong	10178 Jan 19 19:16	4°≈56'14	0°42'43
desc. node	10177 Feb 07 12:12	24° ≈ 10'38		desc. node	10178 Jan 25 09:04	14° ≈ 53'17	
	10177 Feb 10 22:30	0° ∀		max. Earth dist.	10178 Jan 27 05:42	18° ≈ 05'48	1.40815 AU
max. Earth dist.	10177 Feb 13 20:22	4° ¥ 49'55	1.42821 AU	evening rise	10178 Jan 31 18:07	25° ≈ 40'14	
evening rise	10177 Feb 20 03:17	14° ¥ 56'40		•	10178 Feb 03 10:04	0° ∀	
	10177 Mar 01 23:24	$0^{\circ}\Upsilon$			10178 Feb 23 17:39	0° Y	
evening max el	10177 Mar 24 10:07	29° Y 47'52	22°04'40	evening max el	10178 Mar 07 01:24	13° Y 33'33	23°24'43
	10177 Mar 24 14:57	0° 8		retrograde	10178 Mar 17 15:57	19° Y '49'34	
retrograde	10177 Apr 02 20:51	5° 8 23'07		asc. node	10178 Mar 20 10:39	19° Y 12'28	
asc. node	10177 Apr 02 13:25	5° 8 22'39		evening set	10178 Mar 22 17:34	17° Y '42'34	
evening set	10177 Apr 07 10:59	3° 8 30'20		min. Earth dist.	10178 Mar 27 14:27	11° Y ′59'36	0.68521 AU
	10177 Apr 10 16:27	30° Ŗ ♈		inferior conj	10178 Mar 28 03:17	11° Υ 15'29	2°14'56
inferior conj	10177 Apr 12 18:22		2°45'42	minimum elong	10178 Mar 28 01:04	11° Y ′23'04	2°14'15
minimum elong	10177 Apr 12 16:22	27° Y °17′04	2°45'06	morning rise	10178 Apr 02 08:33	5° Y ′09'54	
min. Earth dist.	10177 Apr 12 17:40	27° Y 12'33	0.68586 AU	direct	10178 Apr 06 14:51	3° Y 28′25	
morning rise	10177 Apr 17 21:36	20° Υ 58'37		morning max el	10178 Apr 14 22:45	8° Υ 14'57	20°55'11
direct	10177 Apr 22 17:22	18° Y 55′23		desc. node	10178 Apr 23 09:41	18° Y ′24'35	
morning max el	10177 May 02 05:54	24° Y 30'59	22°17'29	• ,	10178 May 01 14:43	0°8	
desc. node	10177 May 06 12:49	29° Y 16′09		morning set	10178 May 15 04:05	20° 8 31'48	

avanina aat	10102 Ion 15 10:14	1290000111		ovening set	10192 Dag 20 12:21	26° る 09'52	
evening set min. Earth dist.	10182 Jan 15 18:14 10182 Jan 19 13:54	13°≈09'11 9°≈42'36	0.64291 AU	evening set min. Earth dist.	10182 Dec 29 13:21 10183 Jan 02 06:24	20° ろ 10'52	0.62389 AU
inferior conj	10182 Jan 19 13.34 10182 Jan 22 01:37	9 ≈42 30 7°≈04'52		inferior conj	10183 Jan 02 06:24 10183 Jan 05 04:05	23 01032 20°る26'34	
minimum elong	10182 Jan 22 04:02	6°≈58'27		minimum elong	10183 Jan 05 09:03	20 3 20 34 20° る 14'48	
asc. node	10182 Jan 25 23:24	3°≈20'05	1 10 20	morning rise	10183 Jan 12 07:08	20 31448 15° る 20'00	2 27 36
morning rise	10182 Jan 28 15:39	1°≈41'23		asc. node	10183 Jan 12 07:08	15° る 10'07	
direct	10182 Jan 31 03:40	1°≈09'38		direct	10183 Jan 14 13:13	13 3 1007	
morning max el	10182 Feb 06 14:08	4°≈30'30	17°51'27	morning max el	10183 Jan 21 07:25	18°る23'48	17°47'57
morning set	10182 Feb 23 13:47	0°) €05'41	17 3127	morning max er	10183 Jan 29 17:23	0°≈	17 47 37
morning sec	10182 Feb 23 12:26	0° ∺		morning set	10183 Feb 06 04:42	12° ≈ 58'11	
desc. node	10182 Feb 28 20:52	8°) 58'43		desc. node	10183 Feb 15 17:41	29°≈37'15	
acce. noue	10102100 20 20.02	0 7(00 .5		desc. node	10183 Feb 15 23:02	0° ∀	
superior conj	10182 Mar 08 21:56	22°) €08'55	-0°57'19			* /\	
minimum elong	10182 Mar 08 15:38	21°) 43'33		superior conj	10183 Feb 17 15:55	2° ¥ 52'59	-0°14'28
	10182 Mar 13 20:08	0°Υ		minimum elong	10183 Feb 17 14:31	2°) (47'06	
max. Earth dist.	10182 Mar 13 20:34	0° Y ′01'42	1.45033 AU	behind sun begin	10183 Feb 17 10:09	2° ¥ 28'39	
evening rise	10182 Mar 24 18:35	17° Ƴ 00′10		behind sun end	10183 Feb 17 18:54	3° ¥ 05'31	
Č	10182 Apr 02 07:55	9° 8		max. Earth dist.	10183 Feb 24 13:01	14°) (13′01	1.43788 AU
greatest brilliancy	10182 Apr 08 17:01	9° 8 26'58	-0.6m	evening rise	10183 Mar 04 07:58	26° ¥ 31'30	
evening max el	10182 Apr 21 02:20	25° 8 32'11	20°11'37	Č	10183 Mar 06 14:05	0° Y	
asc. node	10182 Apr 23 21:33	28° 8 01'30			10183 Mar 27 06:17	0°8	
	10182 Apr 28 05:13	$\Pi^{\circ}0$		evening max el	10183 Apr 04 00:23	9° 8 14'52	21°20'52
retrograde	10182 Apr 28 21:19	0° Ⅱ 02'27		asc. node	10183 Apr 10 18:44	14° 8 05'08	
-	10182 Apr 29 13:13	30° ₹ 8		retrograde	10183 Apr 12 19:43	14° 8 25'40	
evening set	10182 May 02 19:07	28° 8 34'06		evening set	10183 Apr 17 03:32	12° 8 41'51	
inferior conj	10182 May 08 02:36	22° 8 30'49	3°14'29	inferior conj	10183 Apr 22 10:23	6° 8 27'14	2°59'07
minimum elong	10182 May 08 01:43	22° 8 33'49	3°14'05	minimum elong	10183 Apr 22 08:42	6° 8 33'05	2°58'36
min. Earth dist.	10182 May 08 22:37	21° 8 22'43	0.67779 AU	min. Earth dist.	10183 Apr 22 17:03	6° 8 04'00	0.68422 AU
morning rise	10182 May 13 08:03	16° 8 12'15		morning rise	10183 Apr 27 13:38	0° 8 12'38	
direct	10182 May 19 00:51	13° 8 39'57			10183 Apr 27 19:27	30° ŖƳ	
desc. node	10182 May 27 21:19	18° 8 03'04		direct	10183 May 02 17:18	27° Y ′57'22	
morning max el	10182 May 30 13:48	20° 8 35'21	24°38'05		10183 May 08 06:10	0° 8	
	10182 Jun 07 15:46	Π °0		morning max el	10183 May 12 23:37	4° 8 03'18	23°08'16
	10182 Jun 28 01:05	0 \circ \odot		desc. node	10183 May 14 18:15	5° 8 55'30	
morning set	10182 Jul 05 09:45	12°528'00			10183 Jun 01 20:22	Π °0	
max. Earth dist.	10182 Jul 09 00:24	18° © 55'22	1.37387 AU	morning set	10183 Jun 16 15:04	23° Ⅱ 15'39	
	10182 Jul 14 22:17	$0^{\circ}\Omega$			10183 Jun 20 14:30	0 \circ	
				max. Earth dist.	10183 Jun 20 20:47	0° © 27'08	1.39667 AU
superior conj	10182 Jul 15 20:33	1° Ω 47'34	-0°47'08				
minimum elong	10182 Jul 15 23:36	2° Ω 02′23	0°46'59	superior conj	10183 Jun 28 14:01	14° © 13'29	-1°19'53
asc. node	10182 Jul 20 20:38	11° Ω 40'09		minimum elong	10183 Jun 28 19:18	14° © 37'49	1°19'34
evening rise	10182 Jul 24 09:38	18° Ω 45'40			10183 Jul 06 22:15	0 \circ Ω	
	10182 Jul 30 04:37	0° m)		asc. node	10183 Jul 07 17:34	1° Ω 32'46	
evening max el	10182 Aug 10 04:13	16° Mp 11'12	19°19'54	evening rise	10183 Jul 08 04:08	2° Ω 23'32	
retrograde	10182 Aug 19 12:36	20° Mp 49'40		evening max el	10183 Jul 24 06:00	28° Ω 21'17	18°34'52
evening set	10182 Aug 21 08:47	20° m 39'39			10183 Jul 26 02:58	0° m	
desc. node	10182 Aug 23 20:00	19° m 57'10		retrograde	10183 Aug 01 04:01	2° m 18'40	
inferior conj	10182 Aug 29 23:42	16° m 31'19		evening set	10183 Aug 03 04:59	2° m 03'45	
minimum elong	10182 Aug 29 18:37	16° Mp 39'40	1°52'38		10183 Aug 07 16:58	30°RΩ	
min. Earth dist.	10182 Sep 01 14:18	14° Mp 48'56	0.55794 AU	desc. node	10183 Aug 10 17:13	27° Ω 51'14	0005157
morning rise	10182 Sep 07 01:43	11° m 55'08		inferior conj	10183 Aug 11 01:00	27° Ω 36'22	
direct	10182 Sep 12 04:23	10° M 55'33	25922111	minimum elong	10183 Aug 11 00:46	27° Ω 36'50	
morning max el	10182 Sep 26 06:08	18° Mp 02'18	25-22-11	transit middle	10183 Aug 11 00:46	27°Ω36'50	0.0007
asc. node	10182 Oct 06 04:26 10182 Oct 16 20:59	0° ೭ 18° ೭ 00'53		transit begin transit end	10183 Aug 10 21:25 10183 Aug 11 04:06	27° Ω 43'14 27° Ω 30'25	
asc. node	10182 Oct 16 20:39 10182 Oct 22 18:36	0°M		min. Earth dist.	10183 Aug 11 04.06 10183 Aug 14 07:32	27 δι 30 23 25° Ω 06'55	0.57539 AU
morning set	10182 Oct 22 18:30 10182 Oct 23 03:07	0°M45'26		morning rise	10183 Aug 14 07.32 10183 Aug 18 17:02	23° Ω 23'10	0.37339 AU
morning set	10102 001 23 03.07	0 IIUTJ 20		direct	10183 Aug 18 17.02 10183 Aug 24 14:12	$20^{\circ} \Omega 56'17$	
superior conj	10182 Oct 29 23:05	15° M .43'01	1°37'16	morning max el	10183 Aug 24 14.12 10183 Sep 07 22:08	$20^{\circ} \Omega 29'57$	26°47'57
minimum elong	10182 Oct 29 23:03 10182 Oct 29 22:02	15°MJ37'14	1°37'10 1°37'30	morning max ci	10183 Sep 07 22:08 10183 Sep 09 09:56	0°m)	20 4/3/
max. Earth dist.	10182 Oct 29 22.02 10182 Oct 31 08:38	18°ML47'29	1.32121 AU		10183 Sep 09 09:30 10183 Sep 29 20:32	0∘ ت رابا	
max. Darui dist.	10182 Oct 31 08:38 10182 Nov 05 14:07	10 IIC4/29 0° √	1.52121 AU	asc. node	10183 Sep 29 20:32 10183 Oct 03 17:52	0 == 7° £ 31'48	
evening rise	10182 Nov 06 02:10	1° ∡ ¹02′29		morning set	10183 Oct 03 17:32 10183 Oct 07 12:59	15° £ 23'08	
desc. node	10182 Nov 19 18:02	26° x 22'10		morning set	10105 000 07 12.39	15 -25 00	
Less. Hour	10182 Nov 22 00:34	0° ろ		superior conj	10183 Oct 14 10:41	0° ™ 31'29	1°28'41
evening max el	10182 Dec 08 16:40	21° る 14'39	27°28'37	minimum elong	10183 Oct 14 08:51	0°M21'19	1°28'42
retrograde	10182 Dec 22 12:34	28° る 32'25			10183 Oct 14 05:01	0°M	

T 4 1	10102.0 . 14 15 10	1070 05144	1 21555 177		101040 . 04 15 20	0000000000	
max. Earth dist.	10183 Oct 14 17:12		1.31577 AU	evening rise	10184 Oct 04 15:38	0° M ₊03'37	
evening rise	10183 Oct 21 06:48	15°M28'32			10184 Oct 04 14:57	0°M₊	
	10183 Oct 28 13:00	0° ∡ ¹			10184 Oct 20 20:16	0° ∡ ¹	
desc. node	10183 Nov 06 15:10	15° ∡ ³31′27		desc. node	10184 Oct 23 12:21	3° ≯ 53′13	
	10183 Nov 17 12:31	0°ಕ		evening max el	10184 Nov 01 19:08	14° ∡ 50′22	25°57'18
evening max el	10183 Nov 20 21:47		26°59'45	retrograde	10184 Nov 15 16:51	21° ∡ 52'42	
retrograde	10183 Dec 04 19:46	10° る 38'17		evening set	10184 Nov 22 00:27	20° ∡ 18'35	
evening set	10183 Dec 11 17:00	8° そ 35'35		min. Earth dist.	10184 Nov 26 07:49	17° ∡ ¹43'17	0.58224 AU
min. Earth dist.	10183 Dec 15 12:21	5° る 55'24	0.60310 AU	inferior conj	10184 Nov 29 09:54	15° ∡ ³30′21	-4°52'15
inferior conj	10183 Dec 18 16:03	3° ⋜ 18'46	-3°44'46	minimum elong	10184 Nov 29 17:35	15° ∡ 16'32	4°50'06
minimum elong	10183 Dec 18 23:19	3° ⋜ 03'41	3°41'58	morning rise	10184 Dec 07 13:07	11° ∡ ¹06′23	
	10183 Dec 23 02:22	30°₽ ⋌ ¹		direct	10184 Dec 09 18:32	10° ∡ 50′21	
morning rise	10183 Dec 26 08:14	28° ∡ ³32'12		asc. node	10184 Dec 16 14:43	13° ∡ ³32'40	
direct	10183 Dec 28 11:41	28° ҂ 14′23		morning max el	10184 Dec 18 04:21	14° ∡ 55'36	18°38'50
asc. node	10183 Dec 30 17:39	28° ҂ ³34'50		C	10184 Dec 28 14:34	0°ರ	
	10184 Jan 02 14:00	0°₹		morning set	10185 Jan 03 07:48	10° る 48'39	
morning max el	10184 Jan 04 21:25	1° ට 555'53	18°03'11	3			
morning set	10184 Jan 20 12:28	26° ට 38'02		superior conj	10185 Jan 12 02:02	27° る 39'00	0°54'47
morning sec	10184 Jan 22 07:56	0°≈		minimum elong	10185 Jan 12 05:08	27° ろ 53'30	0°54'46
	10104 Juli 22 07.50	0 /0.		minimum ciong	10185 Jan 13 08:19	0°≈	0 34 40
superior conj	10184 Jan 30 10:38	14° ≈ 47'07	0°23'59	desc. node	10185 Jan 19 11:24	0 ~ 11° ≈ 01'37	
	10184 Jan 30 12:31	14°≈55'28	0°24'01	max. Earth dist.	10185 Jan 19 09:31	11 ≈ 01 37 10° ≈ 53′24	1.39899 AU
minimum elong		14 ≈33 28 20°≈19'39	0 24 01			10 ≈53 24 17°≈52'55	1.39899 AU
desc. node	10184 Feb 02 14:32		1 42012 411	evening rise	10185 Jan 23 11:29		
max. Earth dist.	10184 Feb 07 01:26	27°≈53'48	1.42013 AU		10185 Jan 30 22:54	0°) €	
	10184 Feb 08 07:50	0° ∀			10185 Feb 21 06:04	0°Υ ••••••	22050145
evening rise	10184 Feb 12 11:25	6°) 44′54		evening max el	10185 Feb 27 08:13	6° ℃ 47'17	23°58'47
	10184 Feb 27 18:52	0° Υ		retrograde	10185 Mar 10 09:47	13° Y 17'43	
evening max el	10184 Mar 16 17:48	22° Y 59'56	22°38'24	asc. node	10185 Mar 14 13:10	11° Y ′57'12	
retrograde	10184 Mar 26 16:18	28° Y 52'32		evening set	10185 Mar 15 16:39	11° Y '05'01	
asc. node	10184 Mar 27 15:57	28° Ƴ 47'47		min. Earth dist.	10185 Mar 20 09:59	5° Ƴ 37'10	0.68376 AU
evening set	10184 Mar 31 11:14	26° Y 53'40		inferior conj	10185 Mar 21 03:51	4° Ƴ 36'27	1°59'08
inferior conj	10184 Apr 05 19:26	20° Ƴ 30′21	2°33'48	minimum elong	10185 Mar 21 01:42	4° Υ 43'46	1°58'26
minimum elong	10184 Apr 05 17:18	20° Ƴ 37'46	2°33'08		10185 Mar 24 20:50	30° ₹ ₩	
min. Earth dist.	10184 Apr 05 13:35	20° Ƴ 50'41	0.68620 AU	morning rise	10185 Mar 26 10:48	28° ∺ 34′02	
morning rise	10184 Apr 10 23:14	14° Ƴ 21'13		direct	10185 Mar 30 11:39	27° ₩ 01'48	
direct	10184 Apr 15 13:19	12° Y 26′54			10185 Apr 05 18:08	0 ° Υ	
morning max el	10184 Apr 24 12:53	17° Ƴ 40'19	21°41'09	morning max el	10185 Apr 07 08:50	1° Y 29'30	20°23'43
desc. node	10184 Apr 30 15:10	24° Y 40'29		desc. node	10185 Apr 17 12:01	14° Ƴ 03'27	
	10184 May 04 16:20	9° 8			10185 Apr 28 09:54	9° 8	
	10184 May 24 22:45	$\Pi^{\circ}0$		morning set	10185 May 05 22:04	11° 8 27'27	
morning set	10184 May 26 17:44	2° Ⅱ 50′12		max. Earth dist.	10185 May 15 05:56	26° 8 08'50	1.43725 AU
max. Earth dist.	10184 Jun 01 21:42	12° Ⅱ 50'43	1.41875 AU		10185 May 17 15:11	$\Pi^{\circ}0$	
superior conj	10184 Jun 09 12:14	25° Ⅱ 45'58	-1°48'50	superior conj	10185 May 21 11:07	6° Ⅱ 16'50	-2°08'22
minimum elong	10184 Jun 09 18:34	26° Ⅱ 13'36		minimum elong	10185 May 21 15:17	6° Ⅱ 34'04	
8	10184 Jun 11 22:03	0ంత	- 1007	evening rise	10185 Jun 03 00:39	27° I I42'50	
evening rise	10184 Jun 20 10:40	15° © 26'02		evening rise	10185 Jun 04 08:07	0°99	
asc. node	10184 Jun 23 14:32	21°S12'33		asc. node	10185 Jun 10 11:34	10°934'37	
ase. Houe	10184 Jun 28 14:35	0°Ω		evening max el	10185 Jun 20 04:28	24°9516'15	18°04'54
evening max el	10184 Jul 06 15:22	11° Ω 06'02	18010111	retrograde	10185 Jun 26 15:33	27° © 37'12	10 0434
retrograde	10184 Jul 13 14:15	$14^{\circ} \Omega 37'33$	10 10 11	evening set	10185 Jun 29 07:47	27°901'53	
•		$14^{\circ}\Omega 13'51$		-			2°20'07
evening set	10184 Jul 15 22:44	9° Ω 25'33	1°20'09	inferior conj	10185 Jul 05 17:10	21°554'13 21°547'02	
inferior conj	10184 Jul 22 23:48			minimum elong	10185 Jul 05 19:58		
minimum elong	10184 Jul 23 02:09	9° Ω 20'18	1°18'59	min. Earth dist.	10185 Jul 08 16:37	18°951'59	0.61970 AU
min. Earth dist.	10184 Jul 26 07:40	6° Ω 28'12	0.59706 AU	morning rise	10185 Jul 12 05:59	15°5548'57	
desc. node	10184 Jul 27 14:26	5° Ω 25'25		desc. node	10185 Jul 14 11:36	14°529'25	
morning rise	10184 Jul 30 02:31	3° Ω 41'13		direct	10185 Jul 18 22:39	13°926'34	
direct	10184 Aug 05 12:55	1° Ω 44'40	0.000.45.55	morning max el	10185 Aug 02 02:47	21° © 28'23	27°56'52
morning max el	10184 Aug 19 21:11	9° Ω 36'17	27°41'34		10185 Aug 09 12:58	0° Q	
	10184 Sep 04 14:11	0° m)			10185 Aug 28 16:38	0° m	
asc. node	10184 Sep 19 14:42	27° m) 18'44		morning set	10185 Sep 04 20:15	13° m 53'31	
morning set	10184 Sep 20 19:20	29° m 47'32		asc. node	10185 Sep 06 11:32	17° m) 16'26	
	10184 Sep 20 21:43	0∘ ⊽		max. Earth dist.	10185 Sep 10 09:19	25° Mp 36'26	1.31932 AU
max. Earth dist.	10184 Sep 27 02:44	13° ≙ 27'41	1.31511 AU				
				superior conj	10185 Sep 12 07:52	29° m 50'36	0°55'32
superior conj	10184 Sep 27 22:12	15° ≙ 15'44	1°14'40	minimum elong	10185 Sep 12 05:45	29° m 38'57	0°55'08
minimum elong	10184 Sep 27 19:59	15° ♀ 03'25	1°14'27		10185 Sep 12 09:35	0∘ 亚	

evening rise	10185 Sep 19 02:41	14° ≙ 42'09		superior conj	10186 Aug 27 13:41	14° m 10'05	0°31'36
	10185 Sep 26 15:51	0° M		minimum elong	10186 Aug 27 12:13	14° m 02'14	0°31'09
desc. node	10185 Oct 10 09:32	21°ML08'54		evening rise	10186 Sep 03 14:04	29° m 18'17	
evening max el	10185 Oct 14 08:29	25°M23'32	24°28'30	_	10186 Sep 03 21:55	0∘ ⊽	
Ç	10185 Oct 20 07:34	0° ∡ ¹			10186 Sep 20 22:19	0°M₊	
retrograde	10185 Oct 28 02:26	2° x ⁷ 17'19		evening max el	10186 Sep 25 19:14	5°M31'26	22°48'17
evening set	10185 Nov 02 07:44	1°×716'53		desc. node	10186 Sep 27 06:46	6°M53'29	22 4017
evening set					=		
	10185 Nov 05 03:21	30°RM		retrograde	10186 Oct 08 23:43	12°M05'44	
min. Earth dist.	10185 Nov 07 19:29	28° ™ 27'40	0.56377 AU	evening set	10186 Oct 12 17:21	11°M35'13	
inferior conj	10185 Nov 10 07:18	26°M53'47	-5°36'58	min. Earth dist.	10186 Oct 20 03:34	8° ™ 13'50	0.55079 AU
minimum elong	10185 Nov 10 11:11	26° M 47'41	5°36'16	inferior conj	10186 Oct 21 09:55	7° ™ 30'24	-5°37'59
morning rise	10185 Nov 18 16:48	22°M51'43		minimum elong	10186 Oct 21 05:55	7°M36'08	5°37'24
direct	10185 Nov 21 06:03	22°M34'14		morning rise	10186 Oct 29 20:17	3° ™ 41'49	
morning max el	10185 Dec 01 00:31	27° M 12'49	19°36'43	direct	10186 Nov 01 23:15	3° M ₁9'14	
asc. node	10185 Dec 03 11:44	29°M51'05		morning max el	10186 Nov 13 07:21	8°M39'53	20°57'11
uov. nouv	10185 Dec 03 14:44	0° ₹		asc. node	10186 Nov 20 08:41	17°M14'00	20 07 11
morning got		25° х 19'12		asc. node	10186 Nov 27 19:14	0° √	
morning set	10185 Dec 18 10:55						
	10185 Dec 20 18:30	0°₹		morning set	10186 Dec 02 19:02	10° ∡ *01'34	
		_				_	
superior conj	10185 Dec 26 09:14	11° る 15'04		superior conj	10186 Dec 10 03:52	25° ∡ 22'41	1°31'44
minimum elong	10185 Dec 26 12:07	11° る 29'14	1°17'23	minimum elong	10186 Dec 10 05:48	25° ∡ ³32'34	1°32'03
max. Earth dist.	10186 Jan 01 15:28	23° る 12'29	1.37696 AU		10186 Dec 12 10:20	0°る	
evening rise	10186 Jan 05 08:42	29° る 55'57		max. Earth dist.	10186 Dec 15 00:13	5° る 07'38	1.35645 AU
	10186 Jan 05 09:37	0° ≈		evening rise	10186 Dec 19 00:14	12° る 46'46	
desc. node	10186 Jan 06 08:17	1° ≈ 39'46		desc. node	10186 Dec 24 05:14	22° る 10'06	
	10186 Jan 24 05:53	0° ∀			10186 Dec 28 20:31	0° ≈	
evening max el	10186 Feb 09 21:25	20° ¥ 36′04	25015122		10187 Jan 19 06:42	0° ₩	
•		20 X 30 04 27° ¥ 35'31	23 13 22	avanina may al		4°) 23′18	26920150
retrograde	10186 Feb 21 23:08			evening max el	10187 Jan 23 10:46		20 20 39
evening set	10186 Feb 27 18:11	25°) 11'19		retrograde	10187 Feb 05 07:27	11°) (39'53	
asc. node	10186 Mar 01 10:24	23°) (34'49		evening set	10187 Feb 11 14:10	9° ₩ 08'05	
min. Earth dist.	10186 Mar 04 04:07	20° ∺ 18'18	0.67717 AU	min. Earth dist.	10187 Feb 15 17:50	4°) 49′29	0.66666 AU
inferior conj	10186 Mar 05 09:46	18°) 41′57	1°15'20	asc. node	10187 Feb 16 07:36	4°) €07'54	
minimum elong	10186 Mar 05 08:06	18°) √ 47′23	1°14'50	inferior conj	10187 Feb 17 11:14	2°) 43′23	0°22'35
morning rise	10186 Mar 10 22:23	12°) (47′34		minimum elong	10187 Feb 17 10:38	2°) 45′12	0°22'35
direct	10186 Mar 14 10:57	11°) 36′15			10187 Feb 19 19:07	30°R ≈	
morning max el	10186 Mar 21 12:39	15° ¥ 29'58	19°20'05	morning rise	10187 Feb 23 07:58	26°≈58'51	
. 8	10186 Apr 01 17:43	0° Υ		direct	10187 Feb 26 09:38	26°≈05'41	
greatest brilliancy	10186 Apr 03 08:17	2° Υ '22'24	-0.7m	morning max el	10187 Mar 04 23:27	29°≈37'50	18°32'23
	10186 Apr 04 08:48	3° Υ 53'51	-0.7111	morning max ci	10187 Mar 05 08:19	0° ∺	10 32 23
desc. node	•			JJ.		24°) 04'36	
morning set	10186 Apr 14 21:57	19° Y 59'25		desc. node	10187 Mar 22 05:34		
	10186 Apr 21 09:02	0° 8		morning set	10187 Mar 25 16:30	29°) (31′39	
max. Earth dist.	10186 Apr 27 20:05	10° 8 06'46	1.45010 AU		10187 Mar 25 23:41	0° Υ	
superior conj	10186 May 01 10:09	15° 8 47'23		superior conj	10187 Apr 10 17:44	24° Y '43'30	
minimum elong	10186 May 01 07:51	15° 8 38'14	2°12'16	minimum elong	10187 Apr 10 09:06	24° Ƴ 09'42	1°54'58
	10186 May 10 05:34	$\Pi^{\circ}0$		max. Earth dist.	10187 Apr 10 14:14	24° Y 29'47	1.45606 AU
evening rise	10186 May 15 17:17	9° Ⅲ 02'52			10187 Apr 14 02:38	0° ႘	
asc. node	10186 May 28 08:38	29° Ⅲ 31'54		evening rise	10187 Apr 26 09:56	19° 8 23'34	
	10186 May 28 16:13	0°ഇ			10187 May 03 02:22	$\Pi^{\circ}0$	
evening max el	10186 Jun 03 17:58	7° 5 42'50	18°18'18	greatest brilliancy	10187 May 05 03:38	3° Ⅱ 13'54	-0.8m
retrograde	10186 Jun 10 03:17	11° 5 07'19	10 10 10	asc. node	10187 May 15 05:44	17° I I56'16	0.0111
evening set	10186 Jun 13 03:14	10°50713		evening max el	10187 May 18 05:10	21° Ⅱ 19'22	180/0132
-			2956150	-	-	25° I I00'16	10 49 32
inferior conj	10186 Jun 19 00:54		2°56'59	retrograde	10187 May 24 21:28		
minimum elong	10186 Jun 19 02:57	4° © 47'22	2°56'10	evening set	10187 May 28 05:27	23° ∏ 56′24	
min. Earth dist.	10186 Jun 21 11:00	2° © 07'13	0.64079 AU	inferior conj	10187 Jun 02 19:09	18° ∏ 15'25	
	10186 Jun 23 11:49	30°Ŗ Ⅱ		minimum elong	10187 Jun 02 20:03	18° Ⅱ 12'38	3°14'37
morning rise	10186 Jun 25 01:23	28° Ⅱ 36'59		min. Earth dist.	10187 Jun 04 14:14	16° Ⅱ 01'04	0.65859 AU
desc. node	10186 Jul 01 08:43	25° Ⅱ 58'07		morning rise	10187 Jun 08 09:57	11° Ⅱ 55'13	
direct	10186 Jul 01 17:36	25° Ⅱ 57'39		direct	10187 Jun 14 20:02	9° Ⅱ 10′27	
	10186 Jul 11 01:55	0ಂತಾ		desc. node	10187 Jun 18 05:46	9° ∏ 49'54	
morning max el	10186 Jul 15 12:16	3° 9 59'22	27°34'59	morning max el	10187 Jun 27 22:54	16° Ⅱ 58'00	26°42'08
5	10186 Aug 04 01:47	0°N		3	10187 Jul 08 18:56	0.ಪ	-
morning set	10186 Aug 19 13:15	27° Ω 34'05			10187 Jul 27 23:13	0°N	
morning set	10186 Aug 20 18:32	0° m)		morning set	10187 Jul 27 23:13 10187 Aug 02 19:18	10° Ω 41'21	
000 mc J-	-			•			1 24270 ***
asc. node	10186 Aug 24 08:21	7° Mp 20'02	1 22052 433	max. Earth dist.	10187 Aug 06 22:33		1.34279 AU
max. Earth dist.	10186 Aug 24 08:54	/~III) 22'55	1.32853 AU	asc. node	10187 Aug 11 05:12	27° Ω 25'44	

superior conj	10187 Aug 11 13:26	28° Ω 08'28			10188 Jul 19 04:21	$0^{\circ}\Omega$	
minimum elong	10187 Aug 11 13:15	28° Ω 07'34	0°03'05				
behind sun begin	10187 Aug 11 07:34	27° Ω 38′00		superior conj	10188 Jul 25 04:18	11° Ω 38'25	-0°28'08
behind sun end	10187 Aug 11 18:57	28° Ω 37'11		minimum elong	10188 Jul 25 06:03	11° Ω 47'07	0°28'10
	10187 Aug 12 10:50	0° m ⁄		asc. node	10188 Jul 28 02:06	17° Ω 29'54	
evening rise	10187 Aug 18 23:53	13° Mp 47'03		evening rise	10188 Aug 02 05:58	28° Ω 02'35	
•	10187 Aug 27 05:46	0∘ ⊽		•	10188 Aug 03 05:07	0° m	
evening max el	10187 Sep 07 12:45	15° ≏ 51'34	21°13'28	evening max el	10188 Aug 19 19:13	26° m 51'09	19°55'22
desc. node	10187 Sep 14 04:01	20° £ 37'27		• · • · · · · · · · · · · · · · · · · ·	10188 Aug 23 16:43	0∘ ⊽	
retrograde	10187 Sep 19 11:52	21° Ω 47'36		retrograde	10188 Aug 30 02:23	° – 1° ⊆ 57'40	
evening set	•	21° ⊆ 4730 21° ⊆ 33'30		desc. node	10188 Aug 31 01:16	1° ⊆ 55'12	
Č	10187 Sep 21 23:00		40.4115.6				
inferior conj	10187 Oct 01 02:25	17° Ω 37'48		evening set	10188 Aug 31 23:51	1° £ 48'04	
minimum elong	10187 Sep 30 16:48	17° ≏ 51'18			10188 Sep 06 02:15	30°R, Mp	
min. Earth dist.	10187 Oct 01 11:22	17° ≏ 25'12	0.54619 AU	inferior conj	10188 Sep 09 23:00	27° m 47'33	
morning rise	10187 Oct 09 11:09	13° ≏ 45'49		minimum elong	10188 Sep 09 14:59	27° m 59'43	2°57'58
direct	10187 Oct 13 07:44	13° ≏ 13'44		min. Earth dist.	10188 Sep 11 21:11	26° M 37′29	0.55110 AU
morning max el	10187 Oct 26 01:42	19° ₽ 19'09	22°36'21	morning rise	10188 Sep 18 04:37	23° m 32'07	
	10187 Nov 03 19:41	0° M		direct	10188 Sep 22 20:13	22° Mp 44'55	
asc. node	10187 Nov 07 05:35	5°M26'48		morning max el	10188 Oct 06 13:31	29° m 30'42	24°23'31
morning set	10187 Nov 17 05:54	24° ™ 49'05		C	10188 Oct 07 01:44	0∘ ⊽	
3	10187 Nov 19 16:14	0° ∡ 7		asc. node	10188 Oct 24 02:29	24° £ 17'33	
	1010/110/15 10:11	•		uov. nouv	10188 Oct 27 01:55	0°M	
superior conj	10187 Nov 24 06:27	9° ∡ '51'13	1°38'58	morning set	10188 Oct 31 17:45	9°M37'04	
	10187 Nov 24 00.27 10187 Nov 24 07:09	9° x 55'00	1°39'22	morning set	10100 Oct 31 17.43	9 1163 / 04	
minimum elong					10100 N 07 14 17	2.40 m 2.2101	1020120
max. Earth dist.	10187 Nov 27 16:17	17° ∡ *01'13	1.33932 AU	superior conj	10188 Nov 07 14:17	24°M33'01	1°39'38
evening rise	10187 Dec 02 06:19	26° ∡ 15′04		minimum elong	10188 Nov 07 13:49	24°M30'30	1°39'58
	10187 Dec 04 04:59	0°る		max. Earth dist.	10188 Nov 09 16:37	29°M06'17	1.32651 AU
desc. node	10187 Dec 11 02:14	12° る 27'14			10188 Nov 10 02:36	0°⊀	
	10187 Dec 22 05:38	0° ≈		evening rise	10188 Nov 14 23:30	10° √ 12'07	
evening max el	10188 Jan 06 00:13	18° ≈ 00'04	27°08'13		10188 Nov 25 13:02	0°る	
retrograde	10188 Jan 19 09:45	25° ≈ 22'19		desc. node	10188 Nov 26 23:19	2° る 25'08	
evening set	10188 Jan 26 02:30	22° ≈ 48'16			10188 Dec 17 05:53	0° ≈	
min. Earth dist.	10188 Jan 30 00:53	19° ≈ 03'11	0.65251 AU	evening max el	10188 Dec 18 12:16	1° ≈ 14'21	27°29'56
inferior conj	10188 Feb 01 05:56	16° ≈ 34'41	-0°38'52	retrograde	10189 Jan 01 05:12	8° ≈ 34'28	
minimum elong	10188 Feb 01 07:04	16° ≈ 31'30	0°38'02	evening set	10189 Jan 08 04:46	6°≈05'12	
asc. node	10188 Feb 03 04:46	14° ≈ 27'23		min. Earth dist.	10189 Jan 11 23:04	2°≈51'05	0.63515 AU
morning rise	10188 Feb 07 13:04	11° ≈ 02'26		inferior conj	10189 Jan 14 15:13	0°≈09'20	-1°47'59
direct	10188 Feb 10 05:32	10° ≈ 23'52		minimum elong	10189 Jan 14 18:41	0° ≈ 00'33	1°46'08
morning max el	10188 Feb 16 15:02	13° ≈ 45'54	18°01'27	8	10189 Jan 14 18:54	30°R₹	
8	10188 Feb 28 05:47	0°) €		asc. node	10189 Jan 20 01:55	25° る 31'50	
morning set	10188 Mar 05 16:08	10°) 30′57		morning rise	10189 Jan 21 10:39	24° る 52'28	
desc. node	10188 Mar 08 02:20	14° ¥ 29'30		direct	10189 Jan 23 19:56	24° る 24'46	
dese. Hode	10188 Mar 17 16:50	0°Υ		morning max el	10189 Jan 30 08:35	27° る 46'46	17°47'46
	10100 Wai 17 10.50	0 1		morning max ci	10189 Feb 01 09:04	27 ⊙ 40 40	17 47 40
gumariar agni	10100 Mar 20 02:05	3° Y 51'03	1921/22	morning set	10189 Feb 01 09:04 10189 Feb 15 18:30	0 ∞ 22°≈47'49	
superior conj	10188 Mar 20 03:05			morning set			
minimum elong	10188 Mar 19 18:22	3°Υ16'35			10189 Feb 19 23:18	0°) (
max. Earth dist.	10188 Mar 23 10:10	9° Υ 02'33	1.45460 AU	desc. node	10189 Feb 22 23:09	5°) (04′11	
evening rise	10188 Apr 05 06:06	28° Y 58'30					
	10188 Apr 05 22:03	0°8		superior conj	10189 Feb 28 06:49	13° ¥ 53'55	
greatest brilliancy	10188 Apr 18 19:04	19° 8 35'57	-0.7m	minimum elong	10189 Feb 28 02:39	13°) 36′54	
	10188 Apr 26 04:50	Π $\circ 0$		max. Earth dist.	10189 Mar 06 05:01	23°) €27'48	1.44587 AU
evening max el	10188 Apr 30 11:59	5° Ⅱ 00′10	19°37'24		10189 Mar 10 08:26	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	10188 May 01 02:54	5° Ⅱ 36'46		evening rise	10189 Mar 15 17:32	8° Ƴ 20'14	
retrograde	10188 May 07 19:07	9° Ⅱ 09'11			10189 Mar 30 04:33	$8^{\circ 0}$	
evening set	10188 May 11 11:42	7° ∏ 49'43		evening max el	10189 Apr 13 13:14	18° 8 42'18	20°39'42
inferior conj	10188 May 16 20:40	1° Ⅱ 54'09	3°18'19	asc. node	10189 Apr 18 00:05	22° 8 20'19	
minimum elong	10188 May 16 20:23	1° Ⅱ 55'07		retrograde	10189 Apr 21 17:50	23° 8 28'53	
min. Earth dist.	10188 May 18 00:49		0.67216 AU	evening set	10189 Apr 25 19:53	21° 8 53'41	
Darui dist.	10188 May 18 07:09	30°R ႘	5.57210 AU	inferior conj	10189 May 01 02:49	15° 8 45'15	3°09'14
morning rise	10188 May 22 04:43	25° 8 34'25		minimum elong	10189 May 01 02:49	15° 8 49'35	3°08'48
-	•			•	•		
direct	10188 May 28 04:38	22° 8 55'07		min. Earth dist.	10189 May 01 16:57	14° 8 56'33	0.68116 AU
desc. node	10188 Jun 04 02:45	25° 8 37'13		morning rise	10189 May 06 07:01	9° 8 28'24	
	10188 Jun 09 03:46	0°II	0.500=::::	direct	10189 May 11 18:20	7° 8 02'55	
morning max el	10188 Jun 09 08:56		25°27'14	desc. node	10189 May 21 23:43	12° 8 51'07	
	10188 Jul 01 16:52	0		morning max el	10189 May 22 18:27	13° 8 37'34	24°00'04
morning set	10188 Jul 15 10:24	23° © 04'50			10189 Jun 05 00:39	Π °0	
max. Earth dist.	10188 Jul 19 02:07	29° 5 49'29	1.36158 AU		10189 Jun 24 13:36	0 \circ	

desc. node

10190 May 08 20:38

1°808'18

10191 May 02 19:06

0°8

marning sat	10101 May 19 15:49	23° 8 55'36		desc. node	10102 Apr. 11 14:16	9° Ƴ 46'28	
morning set	10191 May 18 15:48 10191 May 22 11:49	0°II		desc. node	10192 Apr 11 14:16 10192 Apr 25 02:22	9°14628	
max. Earth dist.	10191 May 26 00:54		1.42715 AU	morning set	10192 Apr 26 15:11	2° 8 21'26	
max. Darm dist.	10191 May 20 00.51	3 11 13 30	1.12/15/16	max. Earth dist.	10192 May 07 11:39	19° 8 19'40	1.44353 AU
superior conj	10191 Jun 02 05:21	17° Ⅱ 42'15	-1°58'39				
minimum elong	10191 Jun 02 11:17	18° Ⅱ 07'34	1°58'39	superior conj	10192 May 12 17:45	27° 8 46'21	-2°12'12
	10191 Jun 09 06:58	0ංම		minimum elong	10192 May 12 19:36	27° 8 53'51	2°12'34
evening rise	10191 Jun 13 19:45	8°906'06			10192 May 14 02:34	Π °0	
asc. node	10191 Jun 18 16:59	16° 5 49'13		evening rise	10192 May 26 01:06	19° Ⅱ 59'15	
	10191 Jun 26 22:17	0° Ω		_	10192 May 31 22:16	0°€	
evening max el	10191 Jun 30 07:39	3° Ω 59'33	18°05'37	asc. node	10192 Jun 04 14:01	6°501'34	10000104
retrograde	10191 Jul 07 00:13	7° Ω 24'34		evening max el	10192 Jun 12 21:21	17°518'06	18°08'24
evening set	10191 Jul 09 11:58 10191 Jul 16 05:57	6° Ω 56'18 1° Ω 59'54	1°48'38	retrograde evening set	10192 Jun 19 06:21 10192 Jun 22 01:59	20° © 38'29 19° © 57'26	
inferior conj minimum elong	10191 Jul 16 03.37	1° € 53'23	1°47'23	inferior conj	10192 Jun 28 05:54	19 937 20 14°9542'13	2°38'16
minimum ciong	10191 Jul 18 08:11	1 8€ 33 23	1 4/23	minimum elong	10192 Jun 28 08:28	14°935'16	2°37'15
min. Earth dist.	10191 Jul 19 11:17	28° © 57'22	0.60679 AU	min. Earth dist.	10192 Jul 01 00:04	11°5644'43	0.62905 AU
desc. node	10191 Jul 22 16:55	26°521'32		morning rise	10192 Jul 04 13:14	8°531'33	
morning rise	10191 Jul 23 02:40	26°505'20		desc. node	10192 Jul 08 14:02	6°524'13	
direct	10191 Jul 29 16:47	23° © 56'33		direct	10192 Jul 11 06:40	6°900'35	
	10191 Aug 10 23:22	0 $^{\circ}\Omega$		morning max el	10192 Jul 25 07:05	14° © 03'03	27°51'45
morning max el	10191 Aug 12 23:46	1° Ω 54'07	27°52'41		10192 Aug 07 03:54	$0^{\circ}\Omega$	
	10191 Sep 02 11:36	0° m			10192 Aug 25 01:04	0° m)	
morning set	10191 Sep 14 17:42	23° m 09'53		morning set	10192 Aug 28 15:34	7° m/05'56	
asc. node	10191 Sep 14 17:03	23° Mp 06'30		asc. node	10192 Aug 31 13:52	13° Mp 07'20	1 22266 ATT
max. Earth dist.	10191 Sep 17 23:10	0° 亞 58'33	1.31627 AU	max. Earth dist.	10192 Sep 02 20:58	17° m 59'03	1.32266 AU
max. Earm dist.	10191 Sep 20 16:55	3 == 38 33	1.31027 AU	superior conj	10192 Sep 05 08:08	23° m) 18'34	0°45'58
superior conj	10191 Sep 21 23:50	8° ≙ 49'10	1°07'10	minimum elong	10192 Sep 05 06:08	23° M) 08'08	0°45'30
minimum elong	10191 Sep 21 21:36	8° £ 36'46	1°06'51	g	10192 Sep 08 09:34	0° 0	0 .550
evening rise	10191 Sep 28 17:19	23° £ 36'40		evening rise	10192 Sep 12 04:46	8° £ 15'21	
S	10191 Oct 01 18:08	0° M ₊		C	10192 Sep 23 09:16	0° M .	
desc. node	10191 Oct 18 14:47	28°M42'28		desc. node	10192 Oct 04 12:01	15°M23'15	
	10191 Oct 19 14:47	0°⊀		evening max el	10192 Oct 06 03:33	17°ML03'38	23°46'15
evening max el	10191 Oct 25 16:02	6° ∡ ¹44'06	25°22'05	retrograde	10192 Oct 19 17:10	23°M50'14	
retrograde	10191 Nov 08 13:17	13° х ⁴43'30		evening set	10192 Oct 24 07:54	23°M03'49	
evening set	10191 Nov 14 10:57	12° ₹ 23'50		min. Earth dist.	10192 Oct 30 13:51	20°ML03'03	0.55743 AU
min. Earth dist.	10191 Nov 19 04:13	9° х 44'40	0.57385 AU	inferior conj	10192 Nov 01 14:45	18°M49'54	
inferior conj minimum elong	10191 Nov 22 01:50 10191 Nov 22 08:31	7° ₹ 146'46 7° ₹ 135'24		minimum elong	10192 Nov 01 15:33 10192 Nov 10 01:07	18°M48'43 14°M54'53	5°43'34
morning rise	10191 Nov 22 08.31 10191 Nov 30 08:24	7 x · 33 24 3° x 32'17	3 13 43	morning rise direct	10192 Nov 10 01.07 10192 Nov 12 19:48	14 1163433 14°M35'31	
direct	10191 Nov 30 08:24 10191 Dec 02 16:12	3° × 16'07		morning max el	10192 Nov 12 19:48 10192 Nov 23 05:49	19°MJ31'13	20°08'12
morning max el	10191 Dec 11 15:14	7° × ⁷ 34'59	19°00'38	asc. node	10192 Nov 27 14:08	24°M27'29	20 00 12
asc. node	10191 Dec 11 17:09	7° ∡ ³39'37	1, 0020	use. Houe	10192 Dec 01 08:51	0° ∡ ¹	
	10191 Dec 26 01:06	0°ರ		morning set	10192 Dec 11 11:05	18° ∡ 53'25	
morning set	10191 Dec 28 05:29	4° る 16'34			10192 Dec 16 21:09	ರ∘ರ	
superior conj	10192 Jan 05 14:22	20° ප් 41'15		superior conj	10192 Dec 19 02:55	4° ප 32'07	
minimum elong	10192 Jan 05 17:30		1°05'21	minimum elong	10192 Dec 19 05:27	4° る 44'49	1°24'32
P 4 P	10192 Jan 10 13:49	0° ≈	1 200 5 5 1 1 1	max. Earth dist.	10192 Dec 24 19:19	15°る38'22	1.36798 AU
max. Earth dist.	10192 Jan 12 12:22	3°≈30'14	1.38955 AU	evening rise	10192 Dec 28 14:03	22°る38'42	
desc. node evening rise	10192 Jan 14 13:40 10192 Jan 16 08:33	7°≈08'12 10°≈13'59		desc. node	10192 Dec 31 10:36 10193 Jan 01 18:02	27° る 43'40 0°≈	
evening rise	10192 Jan 28 14:43	10 ≈ 13 39			10193 Jan 21 09:50	0° ∺	
evening max el	10192 Feb 20 14:36	29° ¥ 59'41	24°32'22	evening max el	10193 Feb 02 03:58		25°45'05
evening max er	10192 Feb 20 14:43	0°Υ	21 32 22	retrograde	10193 Feb 14 14:11	20° H 56'21	23 13 03
retrograde	10192 Mar 03 03:06	6° Ƴ 43'42		evening set	10193 Feb 20 14:24	18° ¥ 28'30	
evening set	10192 Mar 08 15:03	4° Υ 26'02		asc. node	10193 Feb 23 12:55	15° ¥ 29'36	
asc. node	10192 Mar 08 15:42	4° Υ 24'38		min. Earth dist.	10193 Feb 24 21:38	13° ¥ 50′15	0.67321 AU
	10192 Mar 12 14:50	30° ₹ ₩		inferior conj	10193 Feb 26 08:14	12° ₩ 00'41	0°54'03
min. Earth dist.	10192 Mar 13 05:10	29°) 12′48	0.68142 AU	minimum elong	10193 Feb 26 06:56	12°) €04'48	0°53'44
inferior conj	10192 Mar 14 03:58	27° ¥ 56'35	1°41'41	morning rise	10193 Mar 03 24:00	6° ₩ 10'15	
minimum elong	10192 Mar 14 01:57	28° ₩ 03'20	1°41'02	direct	10193 Mar 07 07:51	5°) €06'52	
morning rise	10192 Mar 19 12:59	21°) 57'09		morning max el	10193 Mar 14 03:21	8° ¥ 49'30	18°57'47
direct	10192 Mar 23 08:31	20° ₩ 33'52	10054145	greatest brilliancy	10193 Mar 27 21:53	27° \ 24'17	-0.8m
morning max el	10192 Mar 30 20:25	24° ¥ 45'35 0° Ƴ	19-34-43	desc. node	10193 Mar 29 11:02	29°) 46'11 0° °	
	10192 Apr 04 10:45	UI			10193 Mar 29 14:39	U I	

morning set	10193 Apr 05 20:41	11° Y 12'44		asc. node	10194 Feb 10 10:07	25° ≈ 49'15	
	10193 Apr 17 22:10	$0^{\circ}S$		morning rise	10194 Feb 16 08:01	20°≈18'48	
max. Earth dist.	10193 Apr 20 04:22	3° 8 32'21	1.45354 AU	direct	10194 Feb 19 05:35	19° ≈ 32'18	
				morning max el	10194 Feb 25 16:35	22° ≈ 58'32	18°17'10
superior conj	10193 Apr 22 08:29	6° 8 57'10			10194 Mar 03 10:01	0° ∀	
minimum elong	10193 Apr 22 03:01	6° 8 35'36	2°07'29	desc. node	10194 Mar 16 07:49	20°) €03'24	
	10193 May 06 18:20	$0^{\circ}\Pi$		morning set	10194 Mar 17 03:13	21° H 21'08	
evening rise	10193 May 07 07:34	0° Ⅱ 53'43			10194 Mar 22 13:07	0° Y	
asc. node	10193 May 22 11:06	24° Ⅱ 46′07				••	
	10193 May 26 15:01	0°€		superior conj	10194 Apr 01 14:21	15° ℃ 51'11	
evening max el	10193 May 27 10:12	0°9549'56	18°29'29	minimum elong	10194 Apr 01 04:49	15° Y 13'51	1°41'51
retrograde	10193 Jun 02 21:20	4°9519'46		max. Earth dist.	10194 Apr 02 23:47	18° Y 02'03	1.45630 AU
evening set	10193 Jun 06 00:43	3°524'25			10194 Apr 10 15:41	0° 8	
	10193 Jun 09 22:25	30°RⅡ	200 (142	evening rise	10194 Apr 17 14:35	10° 8 52'03	0.0
inferior conj	10193 Jun 11 18:33	27° II 52'09	3°06'42	greatest brilliancy	10194 Apr 28 13:14	27° 8 53'12	-0.8m
minimum elong	10193 Jun 11 20:08	27° Ⅱ 47'26 25° Ⅱ 18'25	3°06'02	1	10194 Apr 29 22:39	0°П	
min. Earth dist.	10193 Jun 13 22:12		0.64879 AU	asc. node	10194 May 09 08:15	12° ∏ 53'10	10007150
morning rise	10193 Jun 17 14:35	21° Ⅱ 33'39 18° Ⅱ 50'59		evening max el	10194 May 10 19:38	14° Ⅲ 28'07 18° Ⅲ 20'07	19°07'59
direct	10193 Jun 24 04:42 10193 Jun 25 11:07	18° Ц 50′39		retrograde	10194 May 17 17:27	18° П 20'07 17° П 09'39	
desc. node			27015150	evening set	10194 May 21 04:57	1/°Щ09'39 11°Щ22'01	3°18'09
morning max el	10193 Jul 07 17:25	26°∏47'48 0° ©	2/-1558	inferior conj	10194 May 26 16:15 10194 May 26 16:37	11° П 22'01 11° П 20'49	
	10193 Jul 10 17:09 10193 Jul 31 19:11	0°€		minimum elong	,	9° П 24'25	
				min. Earth dist.	10194 May 28 04:50	9° П 24 25 5° П 01'26	0.66480 AU
morning set max. Earth dist.	10193 Aug 12 04:22	20° Ω 34'02 29° Ω 36'47	1.33404 AU	morning rise direct	10194 Jun 01 03:47 10194 Jun 07 09:45	2° П 17'59	
max. Earm dist.	10193 Aug 16 16:57		1.33404 AU	desc. node		2 П 1739 3° П 40'44	
aga mada	10193 Aug 16 21:28	0° Ту 3° Ту 12'48			10194 Jun 12 08:09 10194 Jun 20 04:10	9° П 55'22	26°12'35
asc. node	10193 Aug 18 10:42	3 110 1248		morning max el		9° Щ 33°22	20-12-33
superior aoni	10193 Aug 20 11:42	7° mp 30'31	0°20'09		10194 Jul 06 00:27 10194 Jul 24 08:13	0°Ω	
superior conj	10193 Aug 20 11:42 10193 Aug 20 10:42	7° Mg 25'14	0°20'09 0°19'43	morning set	10194 Jul 24 08:13	3° Ω 24'18	
minimum elong		22° m 50'00	0-1943	morning set max. Earth dist.	10194 Jul 20 04:37 10194 Jul 30 02:20	3° 6 €24 18 10° Ω 50'01	1.35025 AU
evening rise	10193 Aug 27 15:47 10193 Aug 31 02:40	0° ⊽		max. Earm dist.	10194 Jul 30 02.20	10 863001	1.33023 AU
evening max el	•	0 = 27° ₽ 12'30	22°06'22	superior conj	10194 Aug 04 08:01	21° Ω 17'29	0000120
evening max er	10193 Sep 17 16:01	27 = 1230 0° M	22 00 22		10194 Aug 04 08:36	21°Ω20'25	
desc. node	10193 Sep 20 21:39 10193 Sep 21 09:15	0°M21'02		minimum elong behind sun begin	10194 Aug 04 08:36 10194 Aug 04 03:49	21 δ (20 23 20° Ω 56'02	0 09 32
retrograde	10193 Sep 21 09:13 10193 Sep 30 09:35	3°M32'50		behind sun end	10194 Aug 04 03.49 10194 Aug 04 13:22	20 δι 36 02 21° Ω 44'50	
evening set	10193 Sep 30 09:33 10193 Oct 03 12:58	3°M10'52		asc. node	10194 Aug 04 13:22 10194 Aug 05 07:34	23°Ω18'18	
evening set	10193 Oct 03 12:38 10193 Oct 11 00:38	30°R <u>Ω</u>		asc. node	10194 Aug 08 13:00	0° m)	
inferior conj	10193 Oct 11 00:38 10193 Oct 12 11:35	29° ₽ 11'10	-5°21'08	evening rise	10194 Aug 12 00:18	7° Mp 13'56	
minimum elong	10193 Oct 12 11:33 10193 Oct 12 04:27	29° ₽ 21'11		evening rise	10194 Aug 24 08:39	0° ⊽	
min. Earth dist.	10193 Oct 12 04:27 10193 Oct 11 21:07	29° £ 31'28	0.54778 AU	evening max el	10194 Aug 30 14:30	0 – 7° Ω 46'46	20°37'49
morning rise	10193 Oct 20 21:28	25° £ 24'03	0.54770710	desc. node	10194 Sep 08 06:31	13° ⊆ 05'13	20 37 47
direct	10193 Oct 20 21:28 10193 Oct 24 07:44	24° £ 58'02		retrograde	10194 Sep 10 21:36	13° ⊆ 03'13	
direct	10193 Nov 04 14:43	0°M		evening set	10194 Sep 10 21:30 10194 Sep 13 00:32	13° ⊆ 25'00	
morning max el	10193 Nov 05 06:56	0°MJ36'57	21°37'30	inferior conj	10194 Sep 13 00:32 10194 Sep 22 04:00	9° £ 15'35	-4°02'55
asc. node	10193 Nov 14 11:04	12°ML13'27	21 37 30	minimum elong	10194 Sep 22 04:00 10194 Sep 21 18:15	9° £ 29'37	
ase. Houe	10193 Nov 24 02:21	0° ₹		min. Earth dist.	10194 Sep 21 10:13 10194 Sep 23 05:38	8° £ 38'38	0.54711 AU
morning set	10193 Nov 25 20:39	3° ∡ ³39'12		morning rise	10194 Sep 30 11:43	5° ≏ 15'44	0.5 1711 110
morning sec	101901101 20 20.09	5 7. 57.12		direct	10194 Oct 04 15:55	4° £ 38'20	
superior conj	10193 Dec 03 01:21	18° ∡ 750′06	1°35'38	morning max el	10194 Oct 17 21:46	11° ⊆ 01'58	23°21'51
minimum elong	10193 Dec 03 02:46	18° ₹ 57'31		morning must vi	10194 Oct 31 22:02	0°M	25 21 51
max. Earth dist.	10193 Dec 03 02:10	27° × ⁷ 31'41	1.34874 AU	asc. node	10194 Nov 01 07:58	0°M43'39	
	10193 Dec 08 12:51	0°ප		morning set	10194 Nov 10 08:09	18° M 27'47	
evening rise	10193 Dec 11 12:15	5°₹46'36		. 8	10194 Nov 15 16:27	0° ⊼	
desc. node	10193 Dec 11 12:13	18° ろ 09'08			5.5.1.0. 10 10.2/	- ··	
	10193 Dec 25 12:08	0° ≈		superior conj	10194 Nov 17 06:31	3° ∡ ¹25'43	1°40'00
evening max el	10194 Jan 15 17:20	27° ≈ 32'33	26°43'37	minimum elong	10194 Nov 17 06:42	3° ∡ ¹26'46	1°40'24
	10194 Jan 18 10:45	0° \	- 2 -	max. Earth dist.	10194 Nov 20 02:32	9°×28'32	1.33329 AU
retrograde	10194 Jan 28 19:55	4°) 52'32		evening rise	10194 Nov 24 23:28	19° х 28′22	
evening set	10194 Feb 04 07:23	2°) 18'45		3	10194 Nov 30 11:38	0°る	
<i>5</i>	10194 Feb 06 18:44	30°R≈		desc. node	10194 Dec 05 04:39	。3 8° る 19'13	
min. Earth dist.	10194 Feb 08 08:37	28° ≈ 14'53	0.66113 AU		10194 Dec 19 14:27	0°≈	
inferior conj	10194 Feb 10 07:06	25°≈58'09		evening max el	10194 Dec 29 06:15	11° ≈ 01'07	27°20'51
minimum elong	10194 Feb 10 07:09	25°≈57'59		retrograde	10195 Jan 11 19:41	18° ≈ 24'03	
transit middle	10194 Feb 10 07:09	25°≈57'59	0°02'10	evening set	10195 Jan 18 15:51	15°≈50'47	
transit begin	10194 Feb 10 04:15	26°≈06'34		min. Earth dist.	10195 Jan 22 12:08	12°≈19'31	0.64547 AU
transit end	10194 Feb 10 10:03	25°≈49'25		inferior conj	10195 Jan 24 22:10	9° ≈ 43'44	
				J		•	

10196 Dec 13 19:06

evening set

11°る27'21

28°**る**56'10

10196 Jan 01 12:57

evening set

. ,	10100 N 05 16 40	40 701145			10100 G 21 16 40	000	
evening set	10198 Nov 05 16:49	4° ×721'45	0.56615.444	. 1	10199 Sep 21 16:49	0°M	22002110
min. Earth dist.	10198 Nov 10 23:08	1° ∡ 735'42	0.56617 AU	evening max el	10199 Sep 28 22:33	8°M41'54	23°03'18
	10198 Nov 13 10:58	30°₹M.	5022125	desc. node	10199 Sep 29 14:30	9°M19'45	
inferior conj	10198 Nov 13 13:58	29°M.55'10		retrograde	10199 Oct 12 05:59	15°M19'54	
minimum elong	10198 Nov 13 18:45	29° ™ 47'30	5°31'41	evening set	10199 Oct 16 05:01	14°M45'45	
morning rise	10198 Nov 21 22:55	25°M50'08		min. Earth dist.	10199 Oct 23 07:40	11°M30'09	0.55223 AU
direct	10198 Nov 24 10:28	25°M33'11		inferior conj	10199 Oct 24 19:08	10°M38'55	
	10198 Dec 03 21:06	0° ∡ ¹		minimum elong	10199 Oct 24 16:24	10°M42'54	5°41'00
morning max el	10198 Dec 03 23:50	0° ∡ ¹06′29	19°26'42	morning rise	10199 Nov 02 05:34	6° ™ 49'02	
asc. node	10198 Dec 05 19:32	2° ∡ ′00′31		direct	10199 Nov 05 06:16	6°M27′23	
morning set	10198 Dec 21 04:24	27° ∡ ¹48'58		morning max el	10199 Nov 16 08:44	11° M 41'41	20°43'51
	10198 Dec 22 06:30	0°ಕ		asc. node	10199 Nov 22 16:30	19°M15'08	
					10199 Nov 29 04:10	0° ∡	
superior conj	10198 Dec 29 05:14	13° る 51'47	1°14'22	morning set	10199 Dec 05 11:59	12° ∡ 30′30	
minimum elong	10198 Dec 29 08:13	14° る 06'18	1°14'27				
max. Earth dist.	10199 Jan 04 15:51	26° る 04'19	1.38014 AU	superior conj	10199 Dec 12 22:28	27° ∡ ¹55'48	1°30'01
	10199 Jan 06 19:57	0°≈		minimum elong	10199 Dec 13 00:33	28° ₰ ¹06'30	1°30'17
evening rise	10199 Jan 08 09:19	2° ≈ 45'30			10199 Dec 13 22:52	0°ರ	
desc. node	10199 Jan 08 16:01	3° ≈ 14'50		max. Earth dist.	10199 Dec 17 24:00	8° ろ 02'28	1.35933 AU
	10199 Jan 25 09:55	0° ∀		evening rise	10199 Dec 21 22:27	15° る 30'28	
evening max el	10199 Feb 12 20:52	23° ¥ 13′04	25°04'32	desc. node	10199 Dec 26 12:59	23° る 47'05	
	10199 Feb 23 06:16	0° Υ			10199 Dec 30 04:35	0° ≈	
retrograde	10199 Feb 24 19:27	0° Y 09′12			10200 Jan 19 23:59	0°) €	
	10199 Feb 26 07:21	30° Ŗ ₩		evening max el	10200 Jan 26 10:20	7°) €01'41	26°12'12
evening set	10199 Mar 02 12:37	27°) 46′37		retrograde	10200 Feb 08 04:32	14° ℋ 16'10	
asc. node	10199 Mar 03 18:13	26° ¥ 37'27		evening set	10200 Feb 14 09:33	11° ¥ 45′21	
min. Earth dist.	10199 Mar 06 23:35	22° ¥ 48'18	0.67838 AU	min. Earth dist.	10200 Feb 18 14:09	7° ∺ 21'35	0.66849 AU
inferior conj	10199 Mar 08 03:29	21° ¥ 16′56	1°22'34	asc. node	10200 Feb 18 15:24	7° ₩ 17'49	
minimum elong	10199 Mar 08 01:42	21° ¥ 22'46	1°22'03	inferior conj	10200 Feb 20 05:46	5° ₩ 19'37	0°31'12
morning rise	10199 Mar 13 15:05	15° ¥ 21′08		minimum elong	10200 Feb 20 04:57	5° ¥ 22'06	0°31'06
direct	10199 Mar 17 05:22	14° ¥ 06'50			10200 Feb 25 08:44	30°R ≈	
morning max el	10199 Mar 24 09:32	18°) €04'57	19°28'34	morning rise	10200 Feb 26 01:07	29° ≈ 33'21	
. 8	10199 Apr 02 20:47	0° Ƴ		direct	10200 Mar 01 04:21	28° ≈ 37'36	
greatest brilliancy	10199 Apr 06 02:31	4° Υ '42'34	-0.7m		10200 Mar 05 03:40	0°) €	
desc. node	10199 Apr 06 16:31	5° Υ 34'19	0.7111	morning max el	10200 Mar 07 19:23	2° ¥ 12'08	18°38'24
morning set	10199 Apr 18 09:28	23° Y 21'14		desc. node	10200 Mar 24 13:19	25°\ 42'39	10 202.
morning sec	10199 Apr 22 16:39	0°8		desc. node	10200 Mar 27 06:59	0°Υ	
max. Earth dist.	10199 Apr 30 18:56	12° 8 39'49	1.44861 AU	morning set	10200 Mar 29 00:12	2° Υ 41'46	
man. Darm dist.	10155 11p1 50 10.00	12 037 17	1	max. Earth dist.	10200 Apr 13 12:48	27° Υ ′00'45	1.45570 AU
superior conj	10199 May 04 20:14	19° 8 06'11	-2°12'43	man. Darum diot.	1020011p1 13 12.10	27 1 00 15	1.10070110
minimum elong	10199 May 04 19:05	19° 8 01'35		superior conj	10200 Apr 14 05:11	28° Y ′04'51	-1°59'12
8	10199 May 11 13:58	0°II		minimum elong	10200 Apr 13 21:10	27° Y '33'31	
evening rise	10199 May 18 21:22	12° I 105'58		g	10200 Apr 15 10:35	0°8	1 0000
o ronning rise	10199 May 29 18:34	0°9		evening rise	10200 Apr 29 17:32	22° 8 35'02	
asc. node	10199 May 30 16:31	1° 5 24'24		evening rise	10200 May 04 08:57	0°II	
evening max el	10199 Jun 06 13:59	10°522'34	18°15'11	greatest brilliancy	10200 May 07 13:58	5° Ⅱ 06'13	-0.9m
retrograde	10199 Jun 12 22:56	13°5945'32	10 13 11	asc. node	10200 May 17 13:37	19° ∏ 54'20	0.5111
evening set	10199 Jun 15 21:45	12°958'44		evening max el	10200 May 21 01:43	23° I I58'08	18°43'50
inferior conj	10199 Jun 21 20:56	7°936'15	2°52'36	retrograde	10200 May 27 16:21	27° II 35'38	10 13 30
minimum elong	10199 Jun 21 23:09	7°930'00	2°51'45	evening set	10200 May 27 10:21 10200 May 30 23:10	26° I I33'58	
min. Earth dist.	10199 Jun 24 09:15	4°9346'35	0.63786 AU	inferior conj	10200 Jun 05 13:50	20° Ⅱ 55'14	3°13'22
morning rise	10199 Jun 27 23:08	1°921'10	0.03700710	minimum elong	10200 Jun 05 14:55		3°12'50
morning rise	10199 Jun 29 23:24	30°RⅡ		min. Earth dist.	10200 Jun 07 11:09	18° I I35'33	0.65622 AU
desc. node	10199 Jul 03 16:25	28° Ⅱ 46'43		morning rise	10200 Jun 11 05:55	14° Ⅱ 35'25	0.03022710
direct	10199 Jul 04 15:52	28° I I43'32		direct	10200 Jun 17 17:14	11° II 50'50	
411000	10199 Jul 09 17:09	0°95		desc. node	10200 Jun 20 13:29	12° Ⅱ 18'20	
morning max el	10199 Jul 18 12:12	6°9345'59	27°40'18	morning max el	10200 Jun 30 22:44	19° Ⅱ 41'03	26°51'38
morning max or	10199 Jul 18 12:12 10199 Aug 05 06:45	0°Ω	2, 1010	morning max or	10200 Jul 09 17:48	0°9	20 31 30
morning set	10199 Aug 03 00:43	0° m 14'19			10200 Jul 29 08:15	0° U	
morning set	10199 Aug 22 09:13	0°M)		morning set	10200 Jul 29 08:13	13° Ω 27'17	
asc. node	10199 Aug 22 00:22 10199 Aug 26 16:15	9° Mg 00'06		max. Earth dist.	10200 Aug 03 17.10 10200 Aug 09 22:40	$21^{\circ} \Omega 44'25$	1.34037 AU
max. Earth dist.	10199 Aug 20 10:13	10° m) 19'16	1.32683 AU	asc. node	10200 Aug 03 22:40 10200 Aug 13 13:07	29°Ω06'05	1.5 105 / AU
max. Darui uist.	10177 Aug 21 01.20	10 III 1710	1.52005 AU	asc. Houc	10200 Aug 13 13.07 10200 Aug 13 23:29	0° m)	
superior conj	10199 Aug 30 07:30	16° m 43'53	0°35'32		10200 Aug 13 23.29	עווי ∨	
minimum elong	10199 Aug 30 07:50 10199 Aug 30 05:54	16° Mp 35'14	0°35'04	superior conj	10200 Aug 14 08:20	0° Mp 46'11	0°07'56
mmmum ciong	10199 Aug 30 03:34 10199 Sep 05 10:30	0∘ ⊽	J JJ UT	minimum elong	10200 Aug 14 08:20 10200 Aug 14 07:56	0° m/44'03	0°07'35
		V ===		mmmun ciong	10200 Aug 14 U/.JO	∪ III) 11 U.3	0 0/33
evening rise	10199 Sep 06 06:46	1° ≏ 48'36		behind sun begin	10200 Aug 14 02:51	0° m 17'33	

1.11.1	10200 4 14 12 01	10 m. 1012 (1	10201 1 1 21 10 01	100 0 1015 4	
behind sun end	10200 Aug 14 13:01	1° Mp 10'36		asc. node	10201 Jul 31 10:01	19° Ω 10'54	
evening rise	10200 Aug 21 16:59	16° Mp 19'16		evening rise	10201 Aug 05 23:48	0° m/37'31	
	10200 Aug 28 12:58	0° ⊽	2102414		10201 Aug 05 16:28	0° m)	
evening max el	10200 Sep 10 14:36		21°26'44		10201 Aug 23 22:35	0∘ ⊽	
desc. node	10200 Sep 16 11:45	23° £ 24'20		evening max el	10201 Aug 23 18:53	29° m 50'54	20°05'41
retrograde	10200 Sep 22 18:49	25° £ 01'03		retrograde	10201 Sep 03 08:17	5° Ω 05'16	
evening set	10200 Sep 25 09:42	24° £ 45'19		desc. node	10201 Sep 03 09:00	5° 2 05'16	
inferior conj	10200 Oct 04 12:20	20° ≙ 49'05		evening set	10201 Sep 05 06:41	4° ≙ 55'30	
minimum elong	10200 Oct 04 03:08		4°51'48	inferior conj	10201 Sep 14 07:22	0° ≏ 56'19	
min. Earth dist.	10200 Oct 04 15:12	20° ≏ 45'05	0.54630 AU	minimum elong	10201 Sep 13 22:44	1° ≏ 09'13	3°14'49
morning rise	10200 Oct 12 21:24	16° ≏ 59'08			10201 Sep 15 21:03	30° ₹ M	
direct	10200 Oct 16 15:21	16° ≏ 28'42		min. Earth dist.	10201 Sep 16 00:31	29° m 54'53	0.54979 AU
morning max el	10200 Oct 29 04:37	22° ≏ 27'13	22°20'44	morning rise	10201 Sep 22 13:39	26° Mp 45'31	
	10200 Nov 04 17:18	0° M		direct	10201 Sep 27 02:13	26°Mp01'11	
asc. node	10200 Nov 09 13:27	7° M 21′28			10201 Oct 07 12:31	0∘ ত	
morning set	10200 Nov 19 22:36	27° M .17'55		morning max el	10201 Oct 10 16:58	2° ≏ 41'13	24°07'40
	10200 Nov 21 05:12	0° ∡ ¹		asc. node	10201 Oct 27 10:23	26° ≏ 07'12	
					10201 Oct 29 11:57	0° M .	
superior conj	10200 Nov 27 00:04	12° ∡ 21'51	1°38'17	morning set	10201 Nov 04 10:23	12°ML06'03	
minimum elong	10200 Nov 27 00:58	12° ∡ ¹26'37	1°38'41	-			
max. Earth dist.	10200 Nov 30 15:01	19° ∡ ¹55'59	1.34164 AU	superior conj	10201 Nov 11 07:15	27°ML02'01	1°39'54
evening rise	10200 Dec 05 02:38	28° ₹ 53'53		minimum elong	10201 Nov 11 06:57	27°ML00'25	1°40'17
Ü	10200 Dec 05 16:18	ರ°0		Č	10201 Nov 12 16:04	0° ∡ ¹	
desc. node	10200 Dec 13 10:01	14° ට 06'42		max. Earth dist.	10201 Nov 13 14:08	1° × 758'41	1.32813 AU
	10200 Dec 23 08:43	0°≈		evening rise	10201 Nov 18 18:19	12° ∡ ¹46'47	
evening max el	10201 Jan 08 23:53	20° ≈ 40'47	27°02'35	evening rise	10201 Nov 27 21:18	0°ਰ	
retrograde	10201 Jan 22 07:41	28°≈02'24	27 0233	desc. node	10201 Nov 27 21:16	4° ろ 07'49	
evening set	10201 Jan 28 23:10	25°≈28'19		desc. node	10201 Nov 30 07:03 10201 Dec 18 15:50	4°⊗0749	
min. Earth dist.	10201 Jan 28 23:10 10201 Feb 01 22:18	23 ≈28 19 21°≈38'24	0.65488 AU	evening max el	10201 Dec 18 13:30 10201 Dec 22 12:09	0 ∞ 3°≈58'42	27°28'31
				•			27 20 31
inferior conj	10201 Feb 04 01:38	19°≈12'47		retrograde	10202 Jan 05 04:12	11°≈19'40	
minimum elong	10201 Feb 04 02:28	19°≈10'25	0°28'18	evening set	10202 Jan 12 03:06	8°≈49'00	0.62701 444
asc. node	10201 Feb 05 12:35	17°≈35'23		min. Earth dist.	10202 Jan 15 21:49	5°≈30'43	0.63791 AU
morning rise	10201 Feb 10 07:04	13° ≈ 38'33		inferior conj	10202 Jan 18 12:29	2°≈50'07	
direct	10201 Feb 13 00:52	12° ≈ 57'59		minimum elong	10202 Jan 18 15:34		1°35'25
morning max el	10201 Feb 19 10:27	16° ≈ 20'38	18°04'59		10202 Jan 21 10:45	30°Rる	
	10201 Mar 01 11:35	0° ∀		asc. node	10202 Jan 23 09:45	28° る 29'27	
morning set	10201 Mar 09 19:28	13° ∺ 28′28		morning rise	10202 Jan 25 06:00	27° る 30'55	
desc. node	10201 Mar 11 10:08	16° ∺ 05'56		direct	10202 Jan 27 16:13	27° පි 01'52	
	10201 Mar 20 01:08	0 ° $\mathbf{\gamma}$			10202 Feb 02 18:14	0° ≈	
				morning max el	10202 Feb 03 03:55	0° ≈ 23'12	17°48'43
superior conj	10201 Mar 24 13:04	7° Ƴ 07'37	-1°27'18	morning set	10202 Feb 19 18:12	25° ≈ 34'48	
minimum elong	10201 Mar 24 03:57	6° Ƴ 31'39	1°26'19		10202 Feb 22 08:22	0° ∀	
max. Earth dist.	10201 Mar 27 08:54	11° Y 34'10	1.45530 AU	desc. node	10202 Feb 26 06:55	6°) 39′23	
	10201 Apr 08 05:12	0° 8					
evening rise	10201 Apr 09 16:17	2° 8 15'44		superior conj	10202 Mar 04 13:22	17° ₩ 00'38	-0°45'30
greatest brilliancy	10201 Apr 22 14:01	22° 8 00'54	-0.7m	minimum elong	10202 Mar 04 08:27	16°) 40′36	0°44'39
	10201 Apr 28 02:53	Π $^{\circ}0$		max. Earth dist.	10202 Mar 10 04:03	26° ∺ 01'37	1.44754 AU
asc. node	10201 May 04 10:45	7° Ⅱ 42'33			10202 Mar 12 16:25	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	10201 May 04 09:16	7° Ⅱ 38'51	19°29'16	evening rise	10202 Mar 20 04:00	11° Y 36'51	
retrograde	10201 May 11 13:42	11° Ⅱ 43'03		C	10202 Apr 01 08:55	0°B	
evening set	10201 May 15 04:59	10° Ⅲ 25'51		evening max el	10202 Apr 17 11:19	21° 8 20'46	20°29'35
inferior conj	10201 May 20 14:28	4° Ⅱ 32'14	3°18'42	asc. node	10202 Apr 21 07:55	24° 8 35'47	
minimum elong	10201 May 20 14:20	4° Ⅱ 32'37		retrograde	10202 Apr 25 12:26	26° 8 01'33	
min. Earth dist.	10201 May 21 20:44		0.67041 AU	evening set	10202 Apr 29 12:59	24° 8 28'42	
iiiii. Lartii dist.	10201 May 21 20:44 10201 May 24 04:53	30°R 8	0.07041710	inferior conj	10202 May 04 20:03	18° 8 21'57	3°11'21
morning rise	10201 May 25 23:20	28° 8 12'15		minimum elong	10202 May 04 20:05 10202 May 04 18:56	18° 8 25'50	3°10'54
direct	10201 May 23 23:20 10201 Jun 01 00:54	25° 8 31'42		min. Earth dist.	•	17° 8 26'31	0.68007 AU
desc. node	10201 Jun 07 10:31	23 8 31 42 27° 8 50'30			10202 May 05 12:13	17 8 2631	0.0000/ AU
uesc. Houe		0° I		morning rise	10202 May 10 00:38	9° 8 36'32	
	10201 Jun 10 06:26		25020120	direct	10202 May 15 13:52		
morning max el	10201 Jun 13 09:01	2° Ⅱ 54'53	25°39'28	desc. node	10202 May 25 07:28	14° 8 53'02	24012120
	10201 Jul 03 22:34	0.ee		morning max el	10202 May 26 18:36	16° 8 18'41	24°13'28
morning set	10201 Jul 19 10:49	25°\$58'21			10202 Jun 07 02:04	0°Ⅱ	
	10201 Jul 21 15:13	0° Ω			10202 Jun 26 22:03	0°€	
max. Earth dist.	10201 Jul 23 03:49	2° Ω 52'13	1.35855 AU	morning set	10202 Jul 01 09:18	7°534'19	
		_		max. Earth dist.	10202 Jul 05 01:48	14° 5 04'03	1.38015 AU
superior conj	10201 Jul 29 00:45	14° Ω 21′03					
minimum elong	10201 Jul 29 02:11	14° Ω 28'11	0°23'16	superior conj	10202 Jul 12 05:17	27° © 19'08	-0°56'12

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minimum elong	10202 Jul 12 08:59	27° © 36'49	0°55'59	superior conj	10203 Jun 24 17:54	9° © 31'29	-1°28'21
g	10202 Jul 13 14:43	0°Ω	0 22 27	minimum elong	10203 Jun 24 23:40	9°957'40	
asc. node	10202 Jul 18 06:55	9° Ω 10'03		evening rise	10203 Jul 04 16:16	28°904'58	1 20 03
evening rise	10202 Jul 21 00:36	14° Ω 35'21		asc. node	10203 Jul 05 03:51	28°\$59'52	
evening rise	10202 Jul 29 05:12	0° m)		asc. node	10203 Jul 05 16:33	0°Ω	
evening max el	10202 Jul 29 03:12 10202 Aug 06 12:33	11° m)29'13	19°05'15	evening max el	10203 Jul 03 16:33 10203 Jul 20 16:49	23°Ω49'54	10025157
•	-	15° My 55'23	19 03 13	•	10203 Jul 20 10.49 10203 Jul 28 07:25	$27^{\circ}\Omega 38'43$	16 23 37
retrograde	10202 Aug 15 10:34	-		retrograde	10203 Jul 28 07.23 10203 Jul 30 10:12	$27^{\circ}\Omega_{21'52}$	
evening set	10202 Aug 17 07:26	15° Mp 44'28		evening set		$27 \Omega 21 32$ $22^{\circ} \Omega 48' 46$	0°20'08
desc. node	10202 Aug 21 06:15	14° Mp 17'47	1022114	inferior conj	10203 Aug 07 00:49		
inferior conj	10202 Aug 25 17:26	11° Mp 31'01		minimum elong	10203 Aug 07 01:32	22° Ω 47'20	0°19'33
minimum elong	10202 Aug 25 13:49	11° Mp 37'13		desc. node	10203 Aug 08 03:26	21° Ω 55'06	0.50111.177
min. Earth dist.	10202 Aug 28 13:53	9° m/34'21	0.56214 AU	min. Earth dist.	10203 Aug 10 09:03		0.58111 AU
morning rise	10202 Sep 02 17:07	6° Mp 44'28		morning rise	10203 Aug 14 13:20	17° Ω 25'43	
direct	10202 Sep 08 01:02	5° m 38'11		direct	10203 Aug 20 14:42	15° Ω 50′28	
morning max el	10202 Sep 22 05:31	12° m 53'09	25°48'36	morning max el	10203 Sep 03 23:30	23° Ω 30'37	27°06'24
_	10202 Oct 05 14:31	0∘ ⊽			10203 Sep 09 19:55	0° m)	
asc. node	10202 Oct 14 07:16	15° ≏ 21'50			10203 Sep 28 16:02	0∘ ⊽	
morning set	10202 Oct 19 21:38	26° ≏ 49'47		asc. node	10203 Oct 01 04:06	4° ≏ 57'31	
	10202 Oct 21 08:57	0° M .		morning set	10203 Oct 04 06:40	11° ≏ 24'10	
superior conj	10202 Oct 26 17:42	11°M49'06	1°35'28	superior conj	10203 Oct 11 05:26	26° £ 36'52	1°25'24
minimum elong	10202 Oct 26 16:24	11° M 41'57	1°35'40	minimum elong	10203 Oct 11 03:28	26° £ 25'52	1°25'20
max. Earth dist.	10202 Oct 27 19:43	14°Ml2'53	1.31919 AU	max. Earth dist.	10203 Oct 11 04:45	26° ₽ 33'03	1.31505 AU
evening rise	10202 Nov 02 18:25	27°Mo1'09			10203 Oct 12 17:58	0° M .	
	10202 Nov 04 05:05	0° ∡		evening rise	10203 Oct 18 00:22	11°M29'53	
desc. node	10202 Nov 17 04:12	23° ∡ ′42'41		•	10203 Oct 27 09:31	0° ∡ ¹	
	10202 Nov 21 05:56	ರ°0		desc. node	10203 Nov 04 01:20	12° ∡ 40′22	
evening max el	10202 Dec 04 21:00	16° る 42'59	27°24'04	evening max el	10203 Nov 16 23:56	28° ∡ ¹42'00	26°45'41
retrograde	10202 Dec 18 17:33	23° る 58'52		<i>8</i>	10203 Nov 18 10:21	0°ප	
evening set	10202 Dec 25 18:21	21° る 40'33		retrograde	10203 Nov 30 22:21	5° る 50'30	
min. Earth dist.	10202 Dec 29 11:16	18°る48'08	0.61825 AU	evening set	10203 Dec 07 16:51	3° る 54'46	
inferior conj	10203 Jan 01 11:16	16° る 04'16		min. Earth dist.	10203 Dec 11 14:10		0.59718 AU
minimum elong	10203 Jan 01 16:57	15° る 51'19		min. Burur dist.	10203 Dec 13 05:32	30°R. ₹	0.03710110
morning rise	10203 Jan 08 18:03	11° る 03'13	2 .011	inferior conj	10203 Dec 14 18:29	28° × 745'36	-4°04'35
asc. node	10203 Jan 10 06:52	11°る313		minimum elong	10203 Dec 14 10:29 10203 Dec 15 02:09	28°× 30'18	
direct	10203 Jan 10 00:32	10°る47'02		morning rise	10203 Dec 13 02:05 10203 Dec 22 14:05	24°×705'21	4 01 40
morning max el	10203 Jan 17 20:40	10 34201 14°る11'43	17°50'18	direct	10203 Dec 24 17:25	23°×7'48'28	
morning max cr	10203 Jan 28 17:00	0°≈	17 30 10	asc. node	10203 Dec 24 17:23 10203 Dec 28 03:57	24° × ⁷ 34'24	
morning set	10203 Jan 28 17:00 10203 Feb 02 14:18	0 ∞ 8°≈41'53		morning max el	10203 Dec 28 03.37 10204 Jan 01 09:06		10010157
morning set		0 ≈41 33 27°≈19'19		morning max er		27 メ ・33 40	16 10 37
desc. node	10203 Feb 13 03:43	27 ≈1919		marning sat	10204 Jan 03 13:32	0 3 22° る 30'53	
	10202 F 1 12 14 24	20005100	0002122	morning set	10204 Jan 17 01:39		
superior conj	10203 Feb 13 14:24	28°≈05'00			10204 Jan 21 01:13	0° ≈	
minimum elong	10203 Feb 13 14:06	28°≈03'44	0°03'03		100041 06 15 14	10015155	0022111
behind sun begin	10203 Feb 13 05:37	27°≈27'29		superior conj	10204 Jan 26 15:14	10°≈15'55	
behind sun end	10203 Feb 13 22:35	28° ≈ 39'54		minimum elong	10204 Jan 26 17:38	10°≈26'43	0°33'11
E 4 F 4	10203 Feb 14 17:27	0°) {	1 42227 411	desc. node	10204 Jan 31 00:33	18°≈01'41	1 41 444 4 77
max. Earth dist.	10203 Feb 20 19:30	10°) €05'52	1.43337 AU	max. Earth dist.	10204 Feb 03 06:04	23°≈33'28	1.41444 AU
evening rise	10203 Feb 27 20:05	21°) € 17'00			10204 Feb 07 03:09	0°) {	
	10203 Mar 05 12:08	0° Υ		evening rise	10204 Feb 08 04:45	1°) €44'08	
	10203 Mar 26 19:47	0°8			10204 Feb 26 21:58	0°Υ	
evening max el	10203 Mar 31 07:51	5° 8 03'49	21°41'37	evening max el	10204 Mar 13 00:08	18° Ƴ 48'51	23°00'42
asc. node	10203 Apr 08 05:06	10° 8 19'13		retrograde	10204 Mar 23 06:30	24° Y ′53′06	
retrograde	10203 Apr 09 10:37	10° 8 26'41		asc. node	10204 Mar 25 02:19	24° Y 36'56	
evening set	10203 Apr 13 21:23	8° 8 38'32		evening set	10204 Mar 28 04:34	22° Y ′50'22	
inferior conj	10203 Apr 19 04:23	2° 8 20'58	2°53'11	min. Earth dist.	10204 Apr 02 04:15	16° Y 56'55	0.68589 AU
minimum elong	10203 Apr 19 02:33	2° 8 27'24		inferior conj	10204 Apr 02 13:26	16° Y 25′07	2°25'16
min. Earth dist.	10203 Apr 19 07:29		0.68519 AU	minimum elong	10204 Apr 02 11:15	16° Ƴ 32'41	2°24'36
	10203 Apr 20 21:25	30° ŖƳ		morning rise	10204 Apr 07 17:49	10° Y 17'30	
morning rise	10203 Apr 24 07:31	26° Y °07'42		direct	10204 Apr 12 04:08	8° Y 29'15	
direct	10203 Apr 29 07:21	23° Y ′58′08		morning max el	10204 Apr 20 19:57	13° Y ′29'31	21°18'32
morning max el	10203 May 09 05:10	29° Y 49'47	22°43'35	desc. node	10204 Apr 28 01:10	21° Y ′58′03	
	10203 May 09 09:13	0° 8			10204 May 03 22:28	0° 8	
desc. node	10203 May 12 04:20	3° 8 01'46		morning set	10204 May 22 03:04	27° 8 18'47	
	10203 May 31 20:55	$\Pi^{\circ}0$			10204 May 23 19:47	$\Pi^{\circ}0$	
morning set	10203 Jun 12 07:32	18° Ⅲ 02'54		max. Earth dist.	10204 May 29 01:16	8° Ⅲ 26'34	1.42430 AU
max. Earth dist.	10203 Jun 16 22:54	25° Ⅱ 49'02	1.40300 AU				
	10203 Jun 19 09:13	0 \circ \odot		superior conj	10204 Jun 05 10:01	20° Ⅱ 47'54	-1°55'22
				-			

minimum elong	10204 Jun 05 16:11	21° Ⅲ 14′23	1°55'19	superior conj	10205 May 17 02:03	1° Ⅱ 00'58	-2°11'14
	10204 Jun 10 16:32	0 \circ		minimum elong	10205 May 17 04:49	1° Ⅱ 12'16	2°11'32
evening rise	10204 Jun 16 18:43	10°956'05		evening rise	10205 May 30 03:09	22° II 57'29	
asc. node	10204 Jun 21 00:51	18° 5 35'41			10205 Jun 03 05:30	0 \circ	
	10204 Jun 27 20:30	$0^{\circ}\Omega$		asc. node	10205 Jun 07 21:53	7° 9 51'32	
evening max el	10204 Jul 03 03:39	6° Ω 43′23	18°06'49	evening max el	10205 Jun 16 17:14	19° 5 59'09	18°06'49
retrograde	10204 Jul 09 22:08	10° Ω 10′16		retrograde	10205 Jun 23 02:44	23° © 19'25	
evening set	10204 Jul 12 08:46	9° Ω 43'38		evening set	10205 Jun 25 21:11	22° 5 40'23	
inferior conj	10204 Jul 19 05:10	4° Ω 50′04	1°38'56	inferior conj	10205 Jul 02 02:56	17° 5 27'42	2°32'11
minimum elong	10204 Jul 19 07:48	4° Ω 43'55	1°37'42	minimum elong	10205 Jul 02 05:36	17° © 20'36	2°31'06
min. Earth dist.	10204 Jul 22 11:35	1° Ω 48'52	0.60339 AU	min. Earth dist.	10205 Jul 04 22:59	14° © 28'14	0.62581 AU
	10204 Jul 24 16:37	30° Ŗ ∽		morning rise	10205 Jul 08 12:09	11° © 18'47	
desc. node	10204 Jul 25 00:35	29° 5 45'20		desc. node	10205 Jul 11 21:44	9° 5 26'18	
morning rise	10204 Jul 26 03:59	28° © 58'57		direct	10205 Jul 15 05:27	8° 9 50'43	
direct	10204 Aug 01 17:00	26° © 54'17		morning max el	10205 Jul 29 07:14	16°952'58	27°54'19
	10204 Aug 10 06:36	$0^{\circ}\Omega$			10205 Aug 09 03:50	$0^{\circ}\Omega$	
morning max el	10204 Aug 16 00:26	4° Ω 49'47	27°49'36		10205 Aug 27 11:31	0° m y	
	10204 Sep 03 17:35	0° m y		morning set	10205 Sep 01 10:45	9° m 44'01	
morning set	10204 Sep 17 11:45	25° m 44'27		asc. node	10205 Sep 03 21:46	14° m 47'59	
asc. node	10204 Sep 17 00:55	24° m 48'11		max. Earth dist.	10205 Sep 06 18:50	20° m 54'35	1.32141 AU
	10204 Sep 19 12:12	0∘ ⊽			•		
max. Earth dist.	10204 Sep 23 13:45	8° ≏ 50'50	1.31577 AU	superior conj	10205 Sep 09 01:30	25° m 51'05	0°49'31
	•			minimum elong	10205 Sep 08 23:30	25° m/40'08	0°49'03
superior conj	10204 Sep 24 16:40	11° ≏ 19'43	1°09'59	· ·	10205 Sep 10 22:57	0∘ <u>v</u>	
minimum elong	10204 Sep 24 14:26	11° ≏ 07'17	1°09'41	evening rise	10205 Sep 15 21:25	10° ≏ 45'46	
evening rise	10204 Oct 01 10:03	26° ♀ 07'02		Č	10205 Sep 25 14:46	0°M₊	
	10204 Oct 03 05:57	0°M		desc. node	10205 Oct 07 19:45	17°M39'59	
	10204 Oct 20 08:53	0° ⊼ 7		evening max el	10205 Oct 10 07:05	20°M13'50	24°01'09
desc. node	10204 Oct 20 22:32	0° х 46′25		retrograde	10205 Oct 23 22:19	27°ML03'02	2.010
evening max el	10204 Oct 28 19:03	9° × 7'50'17	25°34'54	evening set	10205 Oct 28 18:24	26°M11'48	
retrograde	10204 Nov 11 16:32	16° ₹ 50'32	20 3 1 3 1	min. Earth dist.	10205 Nov 03 17:38	23°M15'26	0.55954 AU
evening set	10204 Nov 17 17:56	15° × 25'48		inferior conj	10205 Nov 05 22:39	21°M54'55	
min. Earth dist.	10204 Nov 22 07:25	12°×7'48'21	0.57673 AU	minimum elong	10205 Nov 06 00:37	21°M51'55	
inferior conj	10204 Nov 25 06:50	10° × 44'58		morning rise	10205 Nov 14 08:50	17°M57'39	3 12 0 1
minimum elong	10204 Nov 25 13:58		5°05'55	direct	10205 Nov 17 01:33	17°M39'00	
morning rise	10204 Nov 23 13:30 10204 Dec 03 12:20	6° ₹ 27'05	3 03 33	morning max el	10205 Nov 27 06:00	22°M28'27	19°56'45
direct	10204 Dec 05 19:11	6° × 27 03		asc. node	10205 Nov 30 21:59	26°M33'18	17 30 43
asc. node	10204 Dec 14 00:59	9° x ⁷ 55'50		ase. Hode	10205 Nov 30 21:39 10205 Dec 03 10:06	20 110 33 10	
morning max el	10204 Dec 14 10:39	10° ₹ 25'00	18°52'31	morning set	10205 Dec 15 04:19	21° × ⁷ 23'06	
morning max ci	10204 Dec 14 13:23 10204 Dec 27 11:10	0°る	16 32 31	morning set	10205 Dec 19 09:37	21×2500	
morning set	10204 Dec 27 11:10 10204 Dec 30 23:30	6° る 48'14			10203 Dec 19 09.57	0.0	
morning set	10204 Dec 30 23.30	0 04014		superior conj	10205 Dec 22 22:17	7° る 07'19	1°21'56
superior conj	10205 Jan 08 11:30	23° る 21'22	1°01'43	minimum elong	10205 Dec 22 22:17 10205 Dec 23 00:57	7°る20'36	1°22'07
minimum elong	10205 Jan 08 14:38	23° ට 36'18	1°01'43	max. Earth dist.	10205 Dec 28 19:42	7 3 2030	1.37107 AU
minimum ciong	10205 Jan 12 00:46	0° ≈	1 01 43	evening rise	10206 Jan 01 13:36	25° る 25'36	1.5/10/710
max. Earth dist.	10205 Jan 15 13:07	6°≈20'49	1.39289 AU	desc. node	10206 Jan 03 18:24	29° る 19'43	
desc. node	10205 Jan 16 21:27	8°≈43'09	1.39269 AU	desc. Hode	10206 Jan 04 03:38	0° ≈	
evening rise	10205 Jan 19 10:54	13° ≈ 08'18			10206 Jan 23 10:58	0° ∺	
evening rise	10205 Jan 29 21:07	0° ∀		evening max el	10206 Feb 06 03:27	16° ∺ 26'30	25°34'58
	10205 Feb 21 02:00	0°Υ		retrograde	10206 Feb 18 10:45	23°\(\frac{1}{3}\)1'16	23 34 36
evening max el	10205 Feb 23 14:09	2° Υ '37'07	24°20'45	evening set	10206 Feb 24 09:14	21° X 04'34	
retrograde	10205 Mar 06 22:52	9° Υ 16'22	24 20 43	asc. node	10206 Feb 26 20:43	18° X 36'16	
asc. node	10205 Mar 11 23:31	7° Υ 19'57		min. Earth dist.	10206 Feb 28 17:22	16° ∺ 21'15	0.67468 AU
evening set	10205 Mar 12 09:02	7° Υ '00'24		inferior conj	10206 Mar 02 02:16	14° X 36'07	1°01'53
min. Earth dist.	10205 Mar 17 00:16	1° Υ 42'05	0.68234 AU	minimum elong	10206 Mar 02 00:49		1°01'30
inferior conj	10205 Mar 17 00:10	0° Υ 31'14	1°48'06	morning rise	10206 Mar 07 16:53	8°) 44'20	1 01 30
minimum elong	10205 Mar 17 19:16	0° Υ 38'14	1°47'27	direct	10206 Mar 11 02:21	7° ¥ 38'15	
minimum ciong	10205 Mar 18 06:39	30° ₹	1 4/2/	morning max el	10206 Mar 17 02:21	11°\(\frac{1}{24}\)'23	19°05'17
morning rise	10205 Mar 18 06.39 10205 Mar 23 05:35	30 KA 24° ¥ 30'45		greatest brilliancy	10206 Mar 31 07:02	29° H 10'14	-0.7m
direct	10205 Mar 27 02:59	24 \(\)3043 23°\(\)\(\)04'19		grounds orimancy	10206 Mar 31 07:02 10206 Mar 31 20:13	29 γ (1014	0.7111
morning max el	10205 Mai 27 02.39 10205 Apr 03 17:55	23 X 04 19 27° X 21'16	20004134	desc. node	10206 Mai 31 20:13 10206 Apr 01 18:49	1° Υ 25'44	
morning max ci	10205 Apr 06 04:57	27 π 2110	20 UT JT	morning set	10206 Apr 01 18.49 10206 Apr 10 06:50	1 γ 23 44 14° Υ 30'29	
desc. node	10205 Apr 06 04:57 10205 Apr 14 22:00	11° Υ 29'04		morning set	10206 Apr 10 06:50 10206 Apr 20 06:01	14° ド 30°29	
uese. Hout	-	0° 8		max. Earth dist.	-		1.45248 AU
morning set	10205 Apr 27 09:09 10205 May 01 03:42	5° 8 46'56		max. Earm UISt.	10206 Apr 24 03:17	0 003 12	1.43240 AU
morning set max. Earth dist.	-	21° 8 56'55	1.44145 AU	cuparior comi	10206 Apr 26 10:20	10° 8 18'03	2000121
max. Datui Uist.	10205 May 11 11:17 10205 May 16 11:07	0°Ⅱ	1.77143 AU	superior conj minimum elong	10206 Apr 26 19:29 10206 Apr 26 15:06	10° 8 00'44	

	10206 May 09 02:13	0°Щ		morning set	10207 Mar 21 09:02	24°) 25'46	
evening rise	10206 May 11 13:15	4° Ⅱ 01'01			10207 Mar 24 21:03	0° Υ	
asc. node	10206 May 25 18:58	26° Ⅱ 40'46					
	10206 May 28 05:32	0°©		superior conj	10207 Apr 06 01:35	19° Y 11'42	
evening max el	10206 May 31 06:22	3°529'09	18°25'13	minimum elong	10207 Apr 05 16:12	18° Ƴ 35'02	
retrograde	10206 Jun 06 16:43	6°\$56'57		max. Earth dist.	10207 Apr 06 22:17	20° Y 32'38	1.45638 AU
evening set	10206 Jun 09 18:53	6°503'52	2002122		10207 Apr 12 23:29	0°8	
inferior conj	10206 Jun 15 13:59	0°534'00	3°03'33 3°02'50	evening rise	10207 Apr 21 23:32	14° 8 06'37 0° П 04'51	0.0
minimum elong	10206 Jun 15 15:44 10206 Jun 16 01:28	0°©28'49 30°RⅡ	3-02-50	greatest brilliancy	10207 May 02 04:30	0°Щ0431 0°Щ	-0.8m
min. Earth dist.	10206 Jun 16 01:28 10206 Jun 17 19:53	30°KII 27°II55'43	0.64605 AU	asc. node	10207 May 02 03:14 10207 May 12 16:06	0°Щ 14°Щ54'00	
morning rise	10206 Jun 21 11:31	24° I 16'05	0.04003 AU	evening max el	10207 May 12 16:06 10207 May 14 16:27	14 П 3400 17° П 06'30	19°01'11
direct	10206 Jun 28 02:24	24 H 1003		retrograde	10207 May 14 10.27 10207 May 21 12:13	17 П 00 30 20° П 54'26	19 01 11
desc. node	10206 Jun 28 18:49	21° II 34'23		evening set	10207 May 21 12:13 10207 May 24 22:27	20 H 34 20 19° H 46′20	
morning max el	10206 Jul 11 17:25	21° Ⅱ 30'00 29° Ⅱ 33'17	27°23'14	inferior conj	10207 May 24 22:27 10207 May 30 10:31		3°17'19
morning max ci	10206 Jul 12 03:54	0°95	27 23 14	minimum elong	10207 May 30 10:31 10207 May 30 11:05	13° I I59'15	3°16'51
	10206 Aug 03 02:13	0° U		min. Earth dist.	10207 Jun 01 01:23	11° I I57'18	0.66272 AU
morning set	10206 Aug 16 01:06	23° Ω 16'33		morning rise	10207 Jun 04 23:08	7° I I40'23	0.00272710
morning set	10206 Aug 19 09:52	0° m)		direct	10207 Jun 11 06:36	4° I I56'15	
max. Earth dist.	10206 Aug 20 16:12	2° m/35'35	1.33202 AU	desc. node	10207 Jun 15 15:51	6° ∏ 01'44	
asc. node	10206 Aug 21 18:38	4° m 52'51	1.55202110	morning max el	10207 Jun 24 04:11	12° Ⅲ 37'45	26°23'17
					10207 Jul 08 03:14	0ಂಣ	
superior conj	10206 Aug 24 05:55	10° mg 05'37	0°24'20		10207 Jul 26 18:16	$0^{\circ}\Omega$	
minimum elong	10206 Aug 24 04:44	9° m 59'20	0°23'54	morning set	10207 Jul 30 03:28	6°Ω12'50	
evening rise	10206 Aug 31 08:37	25° m) 20'56		max. Earth dist.	10207 Aug 03 02:59	13° Ω 50'40	1.34751 AU
C	10206 Sep 02 13:50	0∘ <u>⊽</u>			Č		
	10206 Sep 21 10:07	0° M		superior conj	10207 Aug 08 03:30	23° Ω 56'33	-0°04'57
evening max el	10206 Sep 21 18:43	0°M21'19	22°20'49	minimum elong	10207 Aug 08 03:47	23° Ω 58′03	0°05'11
desc. node	10206 Sep 24 16:59	2°M54'56		behind sun begin	10207 Aug 07 22:09	23° Ω 29′07	
retrograde	10206 Oct 04 16:26	6° M 47′04		behind sun end	10207 Aug 08 09:25	24° Ω 27′03	
evening set	10206 Oct 08 00:39	6°M22'22		asc. node	10207 Aug 08 15:31	24° Ω 58′28	
min. Earth dist.	10206 Oct 16 01:06	2°M49'30	0.54866 AU		10207 Aug 11 01:33	0° ™	
inferior conj	10206 Oct 16 21:19	2°M20'59	-5°28'24	evening rise	10207 Aug 15 17:38	9° Mp 46'29	
minimum elong	10206 Oct 16 15:12	2°M29'37	5°27'24		10207 Aug 26 09:30	0∘ ⊽	
	10206 Oct 21 07:54	30°Ŗ 죠		evening max el	10207 Sep 03 15:24	10° ≏ 50′23	20°49'58
morning rise	10206 Oct 25 07:24	28° ≏ 33'47		desc. node	10207 Sep 11 14:12	16° ≏ 01'07	
direct	10206 Oct 28 15:02	28° ഫ 09'05		retrograde	10207 Sep 15 04:23	16° ≏ 33'49	
	10206 Nov 04 10:03	0° M		evening set	10207 Sep 17 09:45	16° ≙ 21'57	
morning max el	10206 Nov 09 09:06	3° M 41'32	21°23'04	inferior conj	10207 Sep 26 13:31	12° ≏ 26′10	
asc. node	10206 Nov 17 18:57	14° Մ L11'14 –		minimum elong	10207 Sep 26 03:39	12° ≏ 40'13	4°14'52
	10206 Nov 26 13:43	0° ∡ ¹		min. Earth dist.	10207 Sep 27 09:26	11° ≏ 57'45	0.54655 AU
morning set	10206 Nov 29 13:25	6° ∡ 07'39		morning rise	10207 Oct 04 21:35	8° Ω 29'26	
				direct	10207 Oct 08 23:04	7° ≙ 54'00	
superior conj	10206 Dec 06 19:28	21°×721'48	1°34'22	morning max el	10207 Oct 22 01:05	14° £ 11'34	23°05'49
minimum elong	10206 Dec 06 21:05	21° х 30'08	1°34'43	,	10207 Nov 03 03:15	0°M	
To all the	10206 Dec 11 01:06	0°궁 0°궁25'54	1 25124 ATT	asc. node	10207 Nov 04 15:53	2°M35'50	
max. Earth dist.	10206 Dec 11 06:18	0°625'54 8° 6 27'34	1.35134 AU	morning set	10207 Nov 14 00:45 10207 Nov 18 05:54	20°M56'15 0°⊀	
evening rise desc. node	10206 Dec 15 09:33 10206 Dec 21 15:24	8 02/34 19° 3 46'54			10207 NOV 18 03.34	0 x .	
desc. Hode	10206 Dec 27 18:39	0°≈		superior conj	10207 Nov 20 23:48	5° ∡ ¹55'27	1°39'45
evening max el	10200 Dec 27 18.39 10207 Jan 19 16:48	0 ≈ 0° 米 11'16	26°36'08	minimum elong	10207 Nov 20 23.48 10207 Nov 21 00:11	5° x ' 57'29	1°40'09
evening max ci	10207 Jan 19 10:48	0° X 1110	20 30 08	max. Earth dist.	10207 Nov 21 00:11 10207 Nov 24 00:34		1.33531 AU
retrograde	10207 Feb 01 17:29	7° ∺ 30′29		evening rise	10207 Nov 28 19:04	22° × ⁷ 05'10	1.55551 710
evening set	10207 Feb 08 03:19	4°) €57'13		evening rise	10207 Dec 02 21:59	0°る	
min. Earth dist.	10207 Feb 12 05:21	0° ¥ 48'17	0.66312 AU	desc. node	10207 Dec 08 12:25	9° る 59'40	
	10207 Feb 12 21:42	30°R≈			10207 Dec 21 13:22	0° ≈	
asc. node	10207 Feb 13 17:56	28° ≈ 59'26		evening max el	10208 Jan 02 05:56	13° ≈ 42'58	27°16'58
inferior conj	10207 Feb 14 02:06	28° ≈ 34'59	0°06'43	retrograde	10208 Jan 15 18:11	21° ≈ 05'58	
minimum elong	10207 Feb 14 01:54	28° ≈ 35'33	0°06'54	evening set	10208 Jan 22 13:11	18° ≈ 32'17	
transit middle	10207 Feb 14 01:54	28° ≈ 35'33	0°06'54	min. Earth dist.	10208 Jan 26 10:11	14° ≈ 56′10	0.64801 AU
transit begin	10207 Feb 13 23:16	28° ≈ 43'26		inferior conj	10208 Jan 28 18:29	12° ≈ 22'42	-0°56'59
transit end	10207 Feb 14 04:32	28° ≈ 27'42		minimum elong	10208 Jan 28 20:13	12° ≈ 18′00	0°55'54
morning rise	10207 Feb 20 01:30	22° ≈ 53'51		asc. node	10208 Jan 31 15:05	9° ≈ 26'05	
direct	10207 Feb 23 00:27	22° ≈ 05'07		morning rise	10208 Feb 04 04:52	6° ≈ 54'31	
morning max el	10207 Mar 01 12:19	25° ≈ 33'14	18°22'09	direct	10208 Feb 06 19:03	6° ≈ 19′28	
	10207 Mar 05 08:34	0° ∀		morning max el	10208 Feb 13 04:48	9° ≈ 40'40	17°55'53
desc. node	10207 Mar 19 15:38	21°) 40′44			10208 Feb 27 04:47	0° ∀	

	10200 M 01 16-27	50W 40122			10200 I 26 22.10	220=227150	17947102
morning set	10208 Mar 01 16:37	5°) 48′22		morning max el	10209 Jan 26 22:18	23° る 37'59	17°47'02
desc. node	10208 Mar 05 12:27	12°) €08'58			10209 Feb 01 00:36	0° ≈	
	10200 16 15 14 40	2001/21156	1010111	morning set	10209 Feb 12 01:16	18° ≈ 23'10	
superior conj	10208 Mar 15 14:49	28° ₩ 31'56			10209 Feb 18 18:18	0°) {	
minimum elong	10208 Mar 15 07:07	28° ₭ 01'16	1°09'09	desc. node	10209 Feb 20 09:14	2°) 45′28	
	10208 Mar 16 12:57	0° Υ				001/2404	
max. Earth dist.	10208 Mar 19 17:45	5°Υ03'34	1.45286 AU	superior conj	10209 Feb 24 01:12	8° ¥ 54'01	
evening rise	10208 Mar 31 15:49	23° Y 34′02		minimum elong	10209 Feb 23 22:25	8°) 42′26	0°26'35
	10208 Apr 04 20:37	0°8		max. Earth dist.	10209 Mar 02 11:30	19° ¥ 22'38	1.44230 AU
greatest brilliancy	10208 Apr 15 05:01	15° 8 33'24	-0.6m		10209 Mar 09 05:15	0° Υ	
	10208 Apr 26 03:26	$\Pi^{\circ}0$		evening rise	10209 Mar 11 03:31	2° Y 58'55	
evening max el	10208 Apr 26 21:44	0° Ⅱ 47'40	19°53'17		10209 Mar 29 08:47	0 \circ 8	
asc. node	10208 Apr 28 13:14	2° Ⅱ 20'17		evening max el	10209 Apr 09 21:28	14° 8 30'33	20°59'06
retrograde	10208 May 04 10:21	5° Ⅱ 06'31		asc. node	10209 Apr 15 10:23	18° 8 45'54	
evening set	10208 May 08 05:23	3° Ⅱ 42'51		retrograde	10209 Apr 18 08:56	19° 8 28'22	
	10208 May 11 20:01	30°₽ ႘		evening set	10209 Apr 22 13:45	17° 8 48'59	
inferior conj	10208 May 13 13:33	27° 8 43'36	3°16'57	inferior conj	10209 Apr 27 20:33	11° 8 37'35	3°04'51
minimum elong	10208 May 13 12:58	27° 8 45'33	3°16'33	minimum elong	10209 Apr 27 19:05	11° 8 42'41	3°04'22
min. Earth dist.	10208 May 14 13:47	26° 8 22'07	0.67511 AU	min. Earth dist.	10209 Apr 28 07:05	11° 8 01'08	0.68287 AU
morning rise	10208 May 18 20:14	21° 8 24'16		morning rise	10209 May 03 00:12	5° 8 21'52	
direct	10208 May 24 16:50	18° 8 47'52		direct	10209 May 08 07:55	3° 8 01'03	
desc. node	10208 Jun 01 12:52	22° 8 15'07		morning max el	10209 May 18 23:23	9° 8 21'47	23°35'05
morning max el	10208 Jun 05 13:55	25° 8 55'36	25°03'50	desc. node	10209 May 19 09:48	9° 8 48'23	
Ü	10208 Jun 09 07:29	0° I I			10209 Jun 04 05:29	0°II	
	10208 Jun 30 16:19	0°ಅ		morning set	10209 Jun 23 02:16	29° Ⅱ 30'04	
morning set	10208 Jul 11 13:33	18°521'32		3	10209 Jun 23 09:20	0°©	
max. Earth dist.	10208 Jul 15 03:50	24°953'32	1.36737 AU	max. Earth dist.	10209 Jun 27 00:40	6°9516'39	1.38990 AU
max. Lartii dist.	10208 Jul 17 21:08	0°Ω	1.50757 110	max. Lartii dist.	1020) Juli 27 00.40	0 31037	1.50770 110
	10200 341 17 21.00	0 00		superior conj	10209 Jul 04 13:38	19° 9 56'45	-1°10'09
superior conj	10208 Jul 21 15:17	7° Ω 16′24	0°37'06	minimum elong	10209 Jul 04 18:18	20°©18'35	
minimum elong	10208 Jul 21 17:38	7° Ω 28'00		minimum clong	10209 Jul 04 18:18 10209 Jul 09 20:12	20 3 18 33	1 09 32
	10208 Jul 25 12:24	15° Ω 00'56	0 37 03	aga mada		4°Ω56'45	
asc. node				asc. node	10209 Jul 12 09:19		
evening rise	10208 Jul 29 22:11	23° Ω 56′09		evening rise	10209 Jul 13 19:32	7° Ω 43'14	
	10208 Aug 01 23:09	0° Mp	10027120		10209 Jul 26 14:30	0° m)	10046100
evening max el	10208 Aug 16 01:39	22° m 02'17	19°3/'28	evening max el	10209 Jul 30 00:20	3° m 59'48	18°46'00
retrograde	10208 Aug 25 21:38	26° m 54'50		retrograde	10209 Aug 07 07:26	8° Mp 08'07	
evening set	10208 Aug 27 18:00	26° m/45'16		evening set	10209 Aug 09 06:32	7° m 55'04	
desc. node	10208 Aug 28 11:26	26° m/36'28		desc. node	10209 Aug 15 08:39	4° m 58'16	
inferior conj	10208 Sep 05 13:35	22° Mp 41'34		inferior conj	10209 Aug 17 08:23	3° Mp 33'23	
minimum elong	10208 Sep 05 06:53	22° m 52'06		minimum elong	10209 Aug 17 06:51	3°M)36'10	
min. Earth dist.	10208 Sep 07 20:23	21° Mp 15'37	0.55401 AU	min. Earth dist.	10209 Aug 20 11:42	1° Mp 16'35	0.56960 AU
morning rise	10208 Sep 13 17:37	18° m) 16'37			10209 Aug 22 09:55	30° ŖΩ	
direct	10208 Sep 18 14:43	17° m 23'38		morning rise	10209 Aug 25 03:50	28° Ω 31′10	
morning max el	10208 Oct 02 12:25	24° m 20'01	24°52'23	direct	10209 Aug 30 19:49	27° Ω 13'11	
	10208 Oct 07 17:16	0∘ ⊽			10209 Sep 08 07:32	0° m)	
asc. node	10208 Oct 21 12:46	21° ≏ 34'51		morning max el	10209 Sep 14 02:40	4° ™ 39'09	26°25'27
	10208 Oct 25 19:09	0° M .			10209 Oct 02 12:41	0∘ 亚	
morning set	10208 Oct 28 12:30	5° M 42'54		asc. node	10209 Oct 08 09:38	10° ≙ 59'19	
				morning set	10209 Oct 12 23:01	20° ≏ 23'07	
superior conj	10208 Nov 04 08:37	20°M39'21	1°38'45		10209 Oct 17 08:53	0° M	
minimum elong	10208 Nov 04 07:52	20° MJ $35'14$	1°39'03				
max. Earth dist.	10208 Nov 06 02:41	24°M29'19	1.32375 AU	superior conj	10209 Oct 19 19:49	5° M 27′08	1°31'52
	10208 Nov 08 16:09	0° ∡ ¹		minimum elong	10209 Oct 19 18:11	5° M 18′06	1°31'57
evening rise	10208 Nov 11 14:41	6° ₰ 08'27		max. Earth dist.	10209 Oct 20 10:21	6° M 47'47	1.31689 AU
desc. node	10208 Nov 24 09:28	29° ₹ 50'41		evening rise	10209 Oct 26 17:34	20° M 29'44	
	10208 Nov 24 11:44	0°る			10209 Oct 31 09:44	0° ∡ ¹	
evening max el	10208 Dec 14 17:14	26° පි 48'54	27°30'41	desc. node	10209 Nov 11 06:35	19° ∡ 11'05	
	10208 Dec 18 10:37	0° ≈			10209 Nov 18 19:11	ರ°0	
retrograde	10208 Dec 28 11:49	4°≈07'51		evening max el	10209 Nov 27 00:05	9° ප 15'40	27°11'56
evening set	10209 Jan 04 12:07	1° ≈ 41'38		retrograde	10209 Dec 10 21:20	16° පි 27'29	
S	10209 Jan 06 16:14	30°Ŗ ට		evening set	10209 Dec 17 20:44	14° る 17'44	
min. Earth dist.	10209 Jan 08 05:46		0.62984 AU	min. Earth dist.	10209 Dec 21 14:38	11° る 33'25	0.60945 AU
inferior conj	10209 Jan 11 00:37	25° ප් 51'30		inferior conj	10209 Dec 24 17:13	8° る 52'54	
minimum elong	10209 Jan 11 04:48	25° ප් 41'14		minimum elong	10209 Dec 24 17:15 10209 Dec 24 23:54	8° ろ 38'29	3°19'43
morning rise	10209 Jan 17 04:40	20°පි39'17	2 00 10	morning rise	10210 Jan 01 05:37	4°る00'08	5 17 15
asc. node	10209 Jan 17 12:14	20°る50'32		direct	10210 Jan 03 09:33	3°る41'04	
direct	10209 Jan 20 07:19	20°る14'00		asc. node	10210 Jan 04 09:21	3°る45'12	
	10207 Jan 20 07.19	20 01400		asc. nouc	10210 Jan 04 07.21	J U+J 12	

		_				_	
morning max el	10210 Jan 10 13:35	7° る 16'51	17°56'35	asc. node	10210 Dec 22 06:25	18° ∡ 15'49 −	
	10210 Jan 25 04:28	0° ≈		morning max el	10210 Dec 24 23:05	20° ∡ ¹27'41	18°26'04
morning set	10210 Jan 26 04:31	1° ≈ 50′08			10211 Jan 01 03:16	0°る	
	10010 F 1 05 10 44	200 - 27120	0012104	morning set	10211 Jan 09 20:53	15° る 53'06	
superior conj	10210 Feb 05 12:44	20°≈27'38	0°13'04		10211 Jan 17 06:48	0° ≈	
minimum elong	10210 Feb 05 13:51	20°≈32'32	0°13'12		10211 I 10 22.24	200 00 4120	0946117
behind sun begin	10210 Feb 05 09:14	20°≈12'19		superior conj	10211 Jan 18 22:34	3°≈04'29	0°46'17
behind sun end desc. node	10210 Feb 05 18:29	20°≈52'44 23°≈26'41		minimum elong desc. node	10211 Jan 19 01:28 10211 Jan 25 02:53	3°≈17'53 14°≈09'27	0°46'16
desc. node	10210 Feb 07 06:01 10210 Feb 11 02:39	23 ≈2041 0° \		max. Earth dist.	10211 Jan 25 02.33	14 ≈0927 16°≈26'33	1.40542 AU
max. Earth dist.	10210 Feb 11 02:39	3°) 14'43	1.42588 AU	evening rise	10211 Jan 30 19:15	10 ≈20 33 23°≈48'09	1.40342 AU
evening rise	10210 Feb 19 01:35	12°) 56'36	1.42388 AU	evening rise	10211 Feb 03 14:43	0°)	
evening rise	10210 Mar 02 05:22	0° Υ			10211 Feb 24 02:44	0° Υ	
evening max el	10210 Mar 23 16:01	28° Υ 14'13	22°14'45	evening max el	10211 Mar 06 06:58	12° Υ '00'39	23°34'56
evening max er	10210 Mar 25 12:31	0°8	22 1443	retrograde	10211 Mar 17 00:53	18° Υ 21'16	23 3430
retrograde	10210 Apr 02 06:13	3° 8 54'39		asc. node	10211 Mar 20 04:49	17° Υ 33'28	
asc. node	10210 Apr 02 07:35	3° 8 54'38		evening set	10211 Mar 22 04:05	16°Υ'12'25	
evening set	10210 Apr 06 21:49	1° 8 59'56		min. Earth dist.	10211 Mar 26 23:51	10° Υ 34'00	0.68489 AU
evening sec	10210 Apr 08 21:45	30°RY		inferior conj	10211 Mar 27 14:13	9° Υ 44'46	2°10'38
inferior conj	10210 Apr 12 05:24	25° Y 38'45	2°42'29	minimum elong	10211 Mar 27 12:01	9° Υ ′52'18	2°09'57
minimum elong	10210 Apr 12 03:22	25° Y 45'51	2°41'52	morning rise	10211 Apr 01 19:57	3° Y 40'06	
min. Earth dist.	10210 Apr 12 03:07	25° Ƴ 46'41	0.68606 AU	direct	10211 Apr 06 00:34	2° Y 01'27	
morning rise	10210 Apr 17 08:46	19° Y ′28′00		morning max el	10211 Apr 14 05:10	6° Y 42'09	20°45'27
direct	10210 Apr 22 02:49	17° Y ′27′27		desc. node	10211 Apr 23 03:31	17° Ƴ 31'55	
morning max el	10210 May 01 11:22	22° Y 56'11	22°06'24		10211 May 01 21:21	0°B	
desc. node	10210 May 06 06:41	28° Y 19'04		morning set	10211 May 13 22:46	18° 8 17'42	
	10210 May 07 15:16	0°8		•	10211 May 21 08:16	$\Pi^{\circ}0$	
	10210 May 28 13:37	Π $^{\circ}0$		max. Earth dist.	10211 May 22 05:43	1° Ⅱ 26'34	1.43223 AU
morning set	10210 Jun 03 13:00	9° Ⅱ 26'50					
max. Earth dist.	10210 Jun 09 00:09	18° Ⅱ 25′26	1.41244 AU	superior conj	10211 May 29 00:08	12° Ⅲ 35'51	-2°03'52
	10210 Jun 15 17:59	0 \circ \odot		minimum elong	10211 May 29 05:26	12° Ⅲ 58′05	2°03'59
					10211 Jun 08 02:09	0 \circ \odot	
superior conj	10210 Jun 16 18:02	1° 5 346'13	-1°40'46	evening rise	10211 Jun 10 01:33	3° 5 29'35	
minimum elong	10210 Jun 17 00:18	2° © 13'59	1°40'32	asc. node	10211 Jun 16 03:16	14° © 09'27	
evening rise	10210 Jun 27 06:07	20° © 57'52		evening max el	10211 Jun 26 20:11	29° © 38'55	18°04'29
asc. node	10210 Jun 29 06:15	24°5541'10			10211 Jun 27 04:57	$0^{\circ}\Omega$	
	10210 Jul 02 04:01	0 $^{\circ}$ Ω		retrograde	10211 Jul 03 09:47	3° Ω 01'31	
evening max el	10210 Jul 13 07:48	16° Ω 35′04	18°15'21	evening set	10211 Jul 05 23:38	2° Ω 30′02	
retrograde	10210 Jul 20 12:30	20° Ω 12'58			10211 Jul 09 20:20	30°ષ્દ્	
evening set	10210 Jul 22 18:32	19° Ω 52′21		inferior conj	10211 Jul 12 13:19	27° © 28'10	2°04'29
inferior conj	10210 Jul 30 01:00	15° Ω 10′05	0°56'50	minimum elong	10211 Jul 12 16:08	27° © 21'11	2°03'14
minimum elong	10210 Jul 30 02:49	15° Ω 06'11	0°55'50	min. Earth dist.	10211 Jul 15 16:05	24°5524'44	0.61306 AU
desc. node	10210 Aug 02 05:52	12° Ω 26'19	0.50005.444	morning rise	10211 Jul 19 06:09	21°527'52	
min. Earth dist.	10210 Aug 02 09:38	12° Ω 18'38	0.59037 AU	desc. node	10211 Jul 20 03:02	20°554'43	
morning rise	10210 Aug 06 07:49	9° Ω 33'40		direct	10211 Jul 25 21:45	19°5512'05	27056115
direct	10210 Aug 12 14:46	7° Ω 45'57	27920122	morning max el	10211 Aug 09 03:41	27°©12'28	27°56'15
morning max el	10210 Aug 26 23:48	15° Ω 33'27	21-29.33		10211 Aug 11 19:18	0° Ω	
	10210 Sep 07 17:49 10210 Sep 24 22:17	0 ்⊽ 0° ™		morning set	10211 Sep 01 10:26 10211 Sep 11 09:23	0° т) 19° т)04'05	
asc. node	10210 Sep 24 22:17 10210 Sep 25 06:28	0° 0° 41'49		asc. node	10211 Sep 11 03:23	20° m) 36'54	
morning set	10210 Sep 27 06:37	0 = 41 49 4° £ 51'51		asc. node	10211 Sep 12 03:18	ე∘ ত	
morning set	10210 Sep 27 00.37	4 — 3131		max. Earth dist.	10211 Sep 10 12:31 10211 Sep 17 03:39	1° ≏ 20'45	1.31751 AU
superior conj	10210 Oct 04 07:33	20° £ 12'54	1°19'29	max. Earth dist.	10211 Sep 17 03.37	1 -2043	1.51751710
minimum elong	10210 Oct 04 07:33	20° ⊆ 00'58	1°19'19	superior conj	10211 Sep 18 18:00	4° £ 51'23	1°01'53
max. Earth dist.	10210 Oct 04 03:24 10210 Oct 03 19:56	19° ⊆ 08'20	1.31476 AU	minimum elong	10211 Sep 18 15:47	4° ⊆ 39'12	1°01'31
max. Dartii dist.	10210 Oct 08 17:33	0°M	1.51170110	evening rise	10211 Sep 25 11:57	19° Ω 40'17	1 0131
evening rise	10210 Oct 11 01:20	5° ™ 02'12		evening rise	10211 Sep 30 11:24	0°M	
	10210 Oct 24 02:52	0° √		desc. node	10211 Oct 16 00:58	25°M26'49	
desc. node	10210 Oct 29 03:45	7° ∡ 748'46			10211 Oct 19 23:42	0° ⊼	
evening max el	10210 Nov 08 23:41	20° ₹ 52'26	26°19'07	evening max el	10211 Oct 21 15:07	1° ∡ ³38'40	24°56'57
retrograde	10210 Nov 22 21:45	27° ₹ '57'38		retrograde	10211 Nov 04 11:18	8° ∡ ³36′02	
evening set	10210 Nov 29 10:44	26° ₹ 13'56		evening set	10211 Nov 10 01:27	7° ∡ ¹25'39	
min. Earth dist.	10210 Dec 03 12:54	23° ∡ ³39′10	0.58826 AU	min. Earth dist.	10211 Nov 15 02:47	4° ∡ ′42'21	0.56872 AU
inferior conj	10210 Dec 06 16:44	21° ₹ 17'12	-4°33'31	inferior conj	10211 Nov 17 20:18	2° х 55′29	-5°27'15
minimum elong	10210 Dec 07 00:38	21° ₹ 02'21	4°31'02	minimum elong	10211 Nov 18 01:52	2° ∡ ¹46′21	5°26'08
morning rise	10210 Dec 14 17:07	16° ∡ ¹46'45			10211 Nov 22 19:21	30°RM	
direct	10210 Dec 16 21:19	16° х ³30′36		morning rise	10211 Nov 26 04:32	28°M47'15	

direct	10211 Nov 28 14:34	28°M30'41		morning rise	10212 Nov 05 14:35	9° ጤ 54'36	
	10211 Dec 04 00:33	0° ∡ 7		direct	10212 Nov 08 13:05	9° ™ 33'50	
morning max el	10211 Dec 07 22:54	2° ∡ ¹58'56	19°17'10	morning max el	10212 Nov 19 09:48	14° M 41'36	20°30'55
asc. node	10211 Dec 09 03:27	4° ∡ 11'33		asc. node	10212 Nov 25 00:26	21°ML17'02	
morning set	10211 Dec 24 22:04	0°る18'50			10212 Nov 30 11:51	0° ∡ ¹	
Z .	10211 Dec 24 18:17	0°ප		morning set	10212 Dec 08 05:00	14° ∡ ¹58'48	
					10212 Dec 15 11:39	0°ප	
superior conj	10212 Jan 02 01:35	16° පි 29'01	1°11'15		10212 Dec 13 11.57	° O	
minimum elong	10212 Jan 02 04:38	16° ろ 43'48	1°11'20	superior conj	10212 Dec 15 17:15	0°る28'27	1°28'06
_							1°28'22
max. Earth dist.	10212 Jan 08 16:22	28° る 55'23	1.38340 AU	minimum elong	10212 Dec 15 19:30	0° る 39'55	
	10212 Jan 09 06:39	0° ≈		max. Earth dist.	10212 Dec 20 23:59	10° ろ 56'26	1.36232 AU
desc. node	10212 Jan 11 23:47	4° ≈ 49'27		evening rise	10212 Dec 24 21:00	18° る 14'03	
evening rise	10212 Jan 12 10:28	5° ≈ 36'03		desc. node	10212 Dec 28 20:45	25° る 22'50	
	10212 Jan 27 14:57	0° ∀			10212 Dec 31 13:21	0° ≈	
evening max el	10212 Feb 16 20:26	25°) 49′48	24°53'26		10213 Jan 20 20:35	0° ∀	
	10212 Feb 21 17:15	$0^{\circ}\mathbf{\Upsilon}$		evening max el	10213 Jan 29 09:54	9° ∺ 38'53	26°03'03
retrograde	10212 Feb 28 15:39	2° Y '42'02		retrograde	10213 Feb 11 01:27	16° ¥ 50′58	
evening set	10212 Mar 05 06:58	0° Υ 21'10		evening set	10213 Feb 17 04:47	14° ¥ 21'11	
3	10212 Mar 05 16:36	30° R ₩		asc. node	10213 Feb 20 23:15	10° ¥ 25'58	
asc. node	10212 Mar 06 02:02	29° ¥ 37'54		min. Earth dist.	10213 Feb 20 23:13	9° \ 52'18	0.67023 AU
min. Earth dist.	10212 Mar 09 19:01	25°) 17'34	0.67955 AU	inferior conj	10213 Feb 23 00:09	7° ¥ 54'38	0°39'36
				•		7°) 57'43	
inferior conj	10212 Mar 10 21:07	23°) ₹51′23	1°29'39	minimum elong	10213 Feb 22 23:09		0°39'25
minimum elong	10212 Mar 10 19:15	23° ¥ 57'36	1°29'04	morning rise	10213 Feb 28 18:11	2° ∺ 06'48	
morning rise	10212 Mar 16 07:46	17° ¥ 54'12		direct	10213 Mar 03 23:02	1° ∺ 08'23	
direct	10212 Mar 19 23:51	16°) 36′48		morning max el	10213 Mar 10 15:26	4°) 45′28	18°44'49
morning max el	10212 Mar 27 06:36	20°) 39′30	19°37'21	desc. node	10213 Mar 26 21:08	27° ∺ 20′30	
	10212 Apr 03 22:33	$0^{\circ}\mathbf{\Upsilon}$			10213 Mar 28 14:08	0° Y	
greatest brilliancy	10212 Apr 08 23:37	7° Ƴ 12'29	-0.7m	morning set	10213 Apr 01 08:33	5° Ƴ 53′06	
desc. node	10212 Apr 09 00:20	7° Ƴ 15'06		max. Earth dist.	10213 Apr 16 11:31	29° Y 31'33	1.45512 AU
morning set	10212 Apr 21 21:22	26° Ƴ 43'35			10213 Apr 16 18:46	0°B	
. 8	10212 Apr 24 00:18	0°8			r		
max. Earth dist.	10212 May 03 17:56		1.44698 AU	superior conj	10213 Apr 17 16:36	1° 8 25'30	-2°02'33
man. Bartin and.	10212 1114, 05 17.00	10 01200	1.1.050110	minimum elong	10213 Apr 17 09:22	0° 8 57'12	
aumorior aoni	10212 May 09 05:55	22° 8 23'21	2012/57	_	10213 May 03 00:41	25° 8 44'50	2 02 22
superior conj	10212 May 08 05:55			evening rise	•		
minimum elong	10212 May 08 05:54	22° 8 23'15	2-13-17	1 . 111	10213 May 05 16:10	0°II	0.0
	10212 May 12 22:38	0°П		greatest brilliancy	10213 May 09 19:58	6° Ⅱ 40'23	-0.9m
evening rise	10212 May 22 00:55	15° Ⅱ 06'57		asc. node	10213 May 19 21:25	21° Ⅱ 50'35	
	10212 May 30 23:03	0 \circ \odot		evening max el	10213 May 23 22:09		18°38'28
asc. node	10212 Jun 02 00:20	3° © 15'11			10213 May 29 01:47	0 \circ	
evening max el	10212 Jun 09 09:58	13° © 01'59	18°12'29	retrograde	10213 May 30 11:21	0° © 10'52	
retrograde	10212 Jun 15 18:44	16° © 23'43			10213 May 31 20:30	30°RⅡ	
evening set	10212 Jun 18 16:27	15° © 38'57		evening set	10213 Jun 02 16:59	29° Ⅱ 11′23	
inferior conj	10212 Jun 24 17:13	10° 5 19'06	2°47'52	inferior conj	10213 Jun 08 08:41	23° Ⅲ 34'53	3°11'16
minimum elong	10212 Jun 24 19:34	10°9512'32	2°46'56	minimum elong	10213 Jun 08 09:56	23° Ⅲ 31′02	3°10'42
min. Earth dist.	10212 Jun 27 07:40	7° © 26'15	0.63481 AU	min. Earth dist.	10213 Jun 10 08:13	21° Ⅱ 10′06	0.65371 AU
morning rise	10212 Jun 30 21:10	4°905'25		morning rise	10213 Jun 14 02:06	17° Ⅱ 15'30	
desc. node	10212 Jul 06 00:09	1° © 38'12		direct	10213 Jun 20 14:31	14° Ⅲ 31'23	
direct	10212 Jul 07 14:18	1°929'50		desc. node	10213 Jun 22 21:14	14° Ⅱ 49'02	
morning max el	10212 Jul 07 14:18	9° © 32'38	27°45'02	morning max el	10213 Jul 03 22:36	22° Ⅲ 24'01	27000142
morning max er			27 43 02	morning max ei			27 00 42
	10212 Aug 06 10:45	0° Q			10213 Jul 10 14:43	0° ©	
_	10212 Aug 23 18:01	0° m			10213 Jul 30 16:57	0°Ω	
morning set	10212 Aug 25 05:05	2°m 53'36		morning set	10213 Aug 08 14:44	16° Ω 11'45	
asc. node	10212 Aug 29 00:10	10° Mp 39′45		max. Earth dist.	10213 Aug 12 22:37	24° Ω 44'21	1.33804 AU
max. Earth dist.	10212 Aug 30 05:40	13° m 15'04	1.32524 AU	asc. node	10213 Aug 15 21:00	0° m ,45′29	
					10213 Aug 15 12:14	0° m)	
superior conj	10212 Sep 02 01:15	19° m 17'02	0°39'23				
minimum elong	10212 Sep 01 23:31	19° m 07'41	0°38'55	superior conj	10213 Aug 17 03:04	3° m 22'39	0°12'23
Č	10212 Sep 06 23:30	0∘ <u>⊽</u>		minimum elong	10213 Aug 17 02:26	3° m)19'19	
evening rise	10212 Sep 08 23:30	4° ≏ 18'34		behind sun begin	10213 Aug 16 22:39	2° m/59'28	
	10212 Sep	0° ™		behind sun end	10213 Aug 17 06:13	3° m ₂ 39'12	
desc. node	10212 Sep 22 13.31 10212 Oct 01 22:12	11°M42'47		evening rise	10213 Aug 17 00:13	18° Mp 50'37	
			22010121	evening 1150	-	0∘ ʊ	
evening max el	10212 Oct 02 02:04	11°M52'12	23 10 21	avaris 1	10213 Aug 29 21:43		21040/20
retrograde	10212 Oct 15 11:57	18°M33'23		evening max el	10213 Sep 13 16:40	22° £ 05'15	21-40-20
evening set	10212 Oct 19 16:31	17°M55'11		desc. node	10213 Sep 18 19:27	26° ♀ 07'02	
min. Earth dist.	10212 Oct 26 11:44	14° M 45′05	0.55391 AU	retrograde	10213 Sep 26 01:45	28° ≏ 14'19	
inferior conj	10212 Oct 28 04:07	13°M46'08		evening set	10213 Sep 28 20:48	27° ≏ 56'39	
minimum elong	10212 Oct 28 02:38	13°M48'18	5°43'12	inferior conj	10213 Oct 07 22:18	23° ჲ 59'30	-5°04'48

	10010 0 + 07 10 40	240 2 11124	5000156		100146 06 1407	00.0.10145	
minimum elong	10213 Oct 07 13:40	24° £ 11'34		retrograde	10214 Sep 06 14:27	8° ≏ 12'45	
min. Earth dist.	10213 Oct 07 19:02	24° ♀ 04'05	0.54664 AU	evening set	10214 Sep 08 14:06	8° ≏ 02'42	
morning rise	10213 Oct 16 07:40	20° ≏ 11'03		inferior conj	10214 Sep 17 16:02	4° ჲ 04'41	
direct	10213 Oct 19 22:59	19° ≏ 42'15		minimum elong	10214 Sep 17 06:53	4° ≏ 18'09	3°31'19
morning max el	10213 Nov 01 07:23	25° ≏ 33'46	22°05'18	min. Earth dist.	10214 Sep 19 03:54	3° ≏ 11'51	0.54865 AU
	10213 Nov 05 10:01	0° M		morning rise	10214 Sep 25 22:52	29° m 58'07	
asc. node	10213 Nov 11 21:23	9° M ₊16'21			10214 Sep 25 20:27	30°₽, m)	
morning set	10213 Nov 22 15:16	29°M45'43		direct	10214 Sep 30 08:28	29° m 16'25	
3	10213 Nov 22 17:59	0° ∡ ¹			10214 Oct 04 18:23	0∘ <u>⊽</u>	
	10215 1101 22 17.57	٠,		morning max el	10214 Oct 13 20:24	ა — 5° ჲ 50'48	23°51'45
	1001231 20 17 46	140 7 51144	102720	•			23 31 43
superior conj	10213 Nov 29 17:46	14° ⋌ ¹51'44	1°37'28	asc. node	10214 Oct 29 18:16	27° ≏ 56'38	
minimum elong	10213 Nov 29 18:51	14° ₹ ′57′28	1°37'51		10214 Oct 30 21:08	0°M₊	
max. Earth dist.	10213 Dec 03 13:52	22° ∡ ′49'46	1.34406 AU	morning set	10214 Nov 07 02:58	14°M34'06	
	10213 Dec 07 04:09	0°る					
evening rise	10213 Dec 07 23:08	1° る 32'06		superior conj	10214 Nov 14 00:15	29°M30'24	1°40'05
desc. node	10213 Dec 15 17:45	15° る 44'38		minimum elong	10214 Nov 14 00:08	29°M29'45	1°40'27
	10213 Dec 24 13:10	0° ≈		Č	10214 Nov 14 05:43	0° ∡ ¹	
evening max el	10214 Jan 11 23:27	23° ≈ 19'55	26°56'27	max. Earth dist.	10214 Nov 16 11:44	4° ∡ 750'28	1.32982 AU
evening max er		0° ∺	20 3027			15° × 21'08	1.32982 AU
	10214 Jan 21 13:39			evening rise	10214 Nov 21 13:17		
retrograde	10214 Jan 25 05:28	0°) 41′00			10214 Nov 29 06:24	0°ಕ	
	10214 Jan 28 16:04	30° R ≈		desc. node	10214 Dec 02 14:47	5° ⋜ 49'03	
evening set	10214 Jan 31 19:38	28° ≈ 06'55			10214 Dec 19 07:12	0° ≈	
min. Earth dist.	10214 Feb 04 19:28	24° ≈ 12'14	0.65713 AU	evening max el	10214 Dec 25 11:54	6° ≈ 41'35	27°26'27
inferior conj	10214 Feb 06 21:07	21° ≈ 49'32	-0°19'18	retrograde	10215 Jan 08 03:07	14° ≈ 03'27	
minimum elong	10214 Feb 06 21:40	21° ≈ 47'59	0°18'45	evening set	10215 Jan 15 01:10	11° ≈ 31'36	
asc. node	10214 Feb 07 20:26	20° ≈ 43'06		min. Earth dist.	10215 Jan 18 20:21	8° ≈ 08'58	0.64061 AU
	10214 Feb 13 00:55	16°≈13'30		inferior conj	10215 Jan 21 09:29	5°≈29'45	
morning rise				,			
direct	10214 Feb 15 20:02	15° ≈ 30'54		minimum elong	10215 Jan 21 12:12		1°24'49
morning max el	10214 Feb 22 05:54	18° ≈ 54'28	18°08'55	asc. node	10215 Jan 25 17:36	1° ≈ 28′14	
	10214 Mar 02 16:23	0° ∀		morning rise	10215 Jan 28 01:07	0° ≈ 08'16	
morning set	10214 Mar 12 23:24	16° ∺ 26'54			10215 Jan 28 09:51	30°Ŗる	
desc. node	10214 Mar 13 17:56	17° ¥ 41′58		direct	10215 Jan 30 12:15	29° る 37'48	
	10214 Mar 21 09:32	$0^{\circ}\Upsilon$			10215 Feb 01 14:31	0° ≈	
				morning max el	10215 Feb 05 23:14	2°≈58'46	17°50'02
superior conj	10214 Mar 27 23:26	10° Y ′24'37	-1°33'02	morning set	10215 Feb 22 18:21	28°≈22'24	1, 5002
minimum elong	10214 Mar 27 14:01	9° Υ 47'38	1°32'05	morning set	10215 Feb 23 17:22	0° ∺	
_							
max. Earth dist.	10214 Mar 30 07:38	14° Y °05′06	1.45581 AU	desc. node	10215 Feb 28 14:42	8°) 14'10	
	10214 Apr 09 12:45	0°B					
evening rise	10214 Apr 13 02:12	5° 8 31'47		superior conj	10215 Mar 07 20:30	20° ₭ 08'22	-0°52'04
greatest brilliancy	10214 Apr 25 07:58	24° 8 21'44	-0.7m	minimum elong	10215 Mar 07 14:49	19°) 45′21	0°51'09
	10214 Apr 29 03:47	$\Pi^{\circ}0$		max. Earth dist.	10215 Mar 13 02:54	28° ¥ 33'51	1.44911 AU
asc. node	10214 May 06 18:33	9° Ⅱ 46′06			10215 Mar 14 00:42	$0^{\circ}\mathbf{Y}$	
evening max el	10214 May 07 06:24	10° Ⅱ 16'39	19°21'26	evening rise	10215 Mar 23 14:34	14° Ƴ 53'11	
retrograde	10214 May 14 08:19	14° Ⅱ 16'19	-,		10215 Apr 02 14:09	0°8	
evening set	10214 May 17 22:17	13° Д 01'26		evening max el	10215 Apr 20 09:15	23° 8 58'21	20°19'44
_			2010142	=	=		20 1944
inferior conj	10214 May 23 08:20	7° Ⅱ 09'49	3°18'42	asc. node	10215 Apr 23 15:43	26° 8 48'40	
minimum elong	10214 May 23 08:23	7° Ⅱ 09'38	3°18'18	retrograde	10215 Apr 28 07:02	28° 8 33'25	
min. Earth dist.	10214 May 24 16:47	5° Ⅱ 23'47	0.66857 AU	evening set	10215 May 02 06:04	27° 8 02'59	
morning rise	10214 May 28 18:05	0° Ⅱ 49'32		inferior conj	10215 May 07 13:20	20° 8 58'03	3°13'09
	10214 May 29 18:14	30° ₹ 8		minimum elong	10215 May 07 12:21	21° 8 01'26	3°12'44
direct	10214 Jun 03 21:13	28° 8 07'53		min. Earth dist.	10215 May 08 07:33	19° 8 55'48	0.67893 AU
desc. node	10214 Jun 09 18:15	0° Ⅱ 05'02		morning rise	10215 May 12 18:22	14° 8 39'54	
***************************************	10214 Jun 09 14:56	0°II		direct	10215 May 18 09:31	12° 8 09'36	
mamina may al	10214 Jun 16 09:06	5° Ⅱ 36'14	25951121	desc. node	•	16° 8 55'38	
morning max el			23 31 21		10215 May 27 15:13		24026142
_	10214 Jul 05 03:48	0°9		morning max el	10215 May 29 18:45	18° 8 59'03	24°26'42
morning set	10214 Jul 22 10:44	28°949'34			10215 Jun 08 02:18	Π °0	
	10214 Jul 23 02:02	0 \circ Ω			10215 Jun 28 06:22	0 \circ	
max. Earth dist.	10214 Jul 26 05:16	5° Ω 53'53	1.35559 AU	morning set	10215 Jul 04 12:25	10°534'50	
				max. Earth dist.	10215 Jul 08 03:42	17° © 02'15	1.37678 AU
superior conj	10214 Jul 31 20:52	17° Ω 01'41	-0°18'18				
minimum elong	10214 Jul 31 21:58	17° Ω 07'17		superior conj	10215 Jul 15 03:24	0° Ω 05'52	-0°51'10
asc. node	10214 Aug 02 17:51	20°Ω50'32	3 10 20	minimum elong	10215 Jul 15 06:45	0° Ω 21'59	
asc. mouc	-			minimum ciong			0 5100
	10214 Aug 07 04:24	0° m/y		,	10215 Jul 15 02:11	0° Ω	
evening rise		3° Mp 10'50		asc. node	10215 Jul 20 14:45	10° Ω 50'51	
	10214 Aug 08 17:26						
	10214 Aug 24 05:04	0∘ ⊽		evening rise	10215 Jul 23 19:19	17° Ω 12'12	
evening max el	-		20°16'29			17° Ω 12'12 0° m	
evening max el desc. node	10214 Aug 24 05:04	0∘ ⊽	20°16'29		10215 Jul 23 19:19	0° m	19°12'55

minimum elong	10217 Jun 08 20:29	24° Ⅱ 19'00	1°51'44	superior conj	10218 May 20 09:51	4° Ⅱ 14'04	-2°09'49
g	10217 Jun 12 02:19	0.ತಿ		minimum elong	10218 May 20 13:26	4° Ⅱ 28'49	2°10'06
evening rise	10217 Jun 19 17:18	13° © 44'39		evening rise	10218 Jun 02 04:45	25° ∏ 54'16	
asc. node	10217 Jun 23 08:41	20°521'01		<i>8</i>	10218 Jun 04 13:28	0ಂತಾ	
	10217 Jun 28 22:48	$0^{\circ}\Omega$		asc. node	10218 Jun 10 05:43	9°540'25	
evening max el	10217 Jul 05 23:46	9° Ω 27'20	18°08'26	evening max el	10218 Jun 19 13:07	22°540'05	18°05'37
retrograde	10217 Jul 12 20:29	12° Ω 56'32		retrograde	10218 Jun 25 23:23	26°900'37	
evening set	10217 Jul 15 05:58	12° Ω 31'30		evening set	10218 Jun 28 16:38	25° © 23'36	
inferior conj	10217 Jul 22 04:52	7° Ω 40'45	1°28'41	inferior conj	10218 Jul 05 00:17	20°513'34	2°25'36
minimum elong	10217 Jul 22 07:21	7° Ω 35′04	1°27'28	minimum elong	10218 Jul 05 03:02	20°506'23	2°24'27
min. Earth dist.	10217 Jul 25 12:07	4° Ω 41′28	0.60000 AU	min. Earth dist.	10218 Jul 07 22:10	17° © 12'29	0.62255 AU
desc. node	10217 Jul 27 08:20	3° Ω 11′22		morning rise	10218 Jul 11 11:26	14° 5 06'31	
morning rise	10217 Jul 29 05:46	1° Ω 53'13		desc. node	10218 Jul 14 05:30	12° © 31'25	
	10217 Aug 03 03:23	30° ₹		direct	10218 Jul 18 04:26	11° © 41'28	
direct	10217 Aug 04 17:28	29° © 52'53		morning max el	10218 Aug 01 07:31	19° 5 43'30	27°56'01
	10217 Aug 06 08:07	$0^{\circ}\Omega$			10218 Aug 10 01:49	$0^{\circ}\Omega$	
morning max el	10217 Aug 19 01:21	7° Ω 46'15	27°45'36		10218 Aug 28 21:33	0°Щ	
	10217 Sep 04 22:31	0° m		morning set	10218 Sep 04 05:45	12° m 21'08	
asc. node	10217 Sep 19 08:49	26°₩29'32		asc. node	10218 Sep 06 05:39	16°Mp28'16	
morning set	10217 Sep 20 05:42	28° Mp 18'00		max. Earth dist.	10218 Sep 09 16:30	23°M/49'02	1.32026 AU
	10217 Sep 21 01:07	0∘ ⊽					
max. Earth dist.	10217 Sep 26 10:34	11° ≏ 42'22	1.31539 AU	superior conj	10218 Sep 11 18:47	28° Mp 22'46	0°52'56
				minimum elong	10218 Sep 11 16:43	28°M/11'24	0°52'30
superior conj	10217 Sep 27 09:29	13° ≏ 49'23	1°12'39		10218 Sep 12 12:31	0∘ ⊽	
minimum elong	10217 Sep 27 07:15	13° ≙ 37'00	1°12'24	evening rise	10218 Sep 18 14:04	13° ≙ 15'39	
evening rise	10217 Oct 04 02:50	28° ≏ 36'52			10218 Sep 26 21:58	0° M	
	10217 Oct 04 18:24	0°M₊		desc. node	10218 Oct 10 03:25	19°M53'58	
	10217 Oct 21 06:57	0° ⊼		evening max el	10218 Oct 13 10:34	23°M23'14	24°15'54
desc. node	10217 Oct 23 06:12	2° ∡ ¹47'45			10218 Oct 24 13:54	0° ∡ ¹	
evening max el	10217 Oct 31 21:54	12° ₹ 54'43	25°47'11	retrograde	10218 Oct 27 03:19	0° ∡ 15′00	
retrograde	10217 Nov 14 19:29	19° ∡ 55'57			10218 Oct 29 17:14	30°RML	
evening set	10217 Nov 21 00:22	18° ≯ 26'09		evening set	10218 Nov 01 04:29	29°M18'51	
min. Earth dist.	10217 Nov 25 10:26	15° ≯ 50′01	0.57966 AU	min. Earth dist.	10218 Nov 06 21:22	26°M26'30	0.56173 AU
inferior conj	10217 Nov 28 11:22	13° ∡ ′41′27		inferior conj	10218 Nov 09 06:10	24°M58'45	
minimum elong	10217 Nov 28 18:51	13° ∡ 28′12	4°57'30	minimum elong	10218 Nov 09 09:14	24°M54'00	5°39'26
morning rise	10217 Dec 06 15:42	9°×20'16		morning rise	10218 Nov 17 16:03	20°M59'03	
direct	10217 Dec 08 21:43	9° ∡ *04'16		direct	10218 Nov 20 06:52	20°M41′04	
asc. node	10217 Dec 16 08:53	12° ₹ 13'27		morning max el	10218 Nov 30 05:54	25°M24'38	19°45'49
morning max el	10217 Dec 17 11:20	13° ∡ 13'27	18°44'58	asc. node	10218 Dec 03 05:53	28°M40'39	
. ,	10217 Dec 28 20:27	0°る		. ,	10218 Dec 04 06:54	0° √ 7	
morning set	10218 Jan 02 17:42	9° る 19'58		morning set	10218 Dec 17 21:40	23° х 53'01	
	10210 1 11 00 50	26070207	0057154		10218 Dec 20 21:57	0°ප	
superior conj	10218 Jan 11 08:58	26°る02'07	0°57'54		10210 D 25 17.54	00=42120	1010122
minimum elong	10218 Jan 11 12:06	26°₹16'51	0°57'54	superior conj	10218 Dec 25 17:54	9°る43'20 9°る57'08	1°19'22
Fauth diet	10218 Jan 13 11:55	0°≈ 0°≈ •10!29	1 20/10 ATT	minimum elong	10218 Dec 25 20:42	9°63708 21° 6 26'38	1°19'31
max. Earth dist. desc. node	10218 Jan 18 13:55 10218 Jan 19 05:12	9°≈10'28 10°≈17'28	1.39618 AU	max. Earth dist.	10218 Dec 31 20:10 10219 Jan 04 13:32	21° ろ 26'38 28° ろ 13'41	1.37418 AU
evening rise	10218 Jan 22 13:43	10 ≈1728 16°≈03'29		evening rise	10219 Jan 05 13:32	28 O1341 0°≈	
evening rise	10218 Jan 31 04:06	0° \		desc. node	10219 Jan 06 02:07	0°≈55'13	
	10218 Feb 21 18:23	0° Υ		desc. node	10219 Jan 24 13:18	0° ∺	
evening max el	10218 Feb 26 13:41	5° Υ 14'20	24°09'01	evening max el	10219 Feb 09 02:57	19°) 04'00	25°24'30
retrograde	10218 Mar 09 18:34	11° Υ 48'54	24 0701	retrograde	10219 Feb 21 07:17	26°\(\frac{1}{2}\)06'03	23 24 30
asc. node	10218 Mar 14 07:23	10° Υ 13'15		evening set	10219 Feb 27 03:56	23°) (40'37	
evening set	10218 Mar 15 03:00	9° Υ 34'38		asc. node	10219 Mar 01 04:35	21°) (40'37	
min. Earth dist.	10218 Mar 19 19:20	4° Υ 11'14	0.68315 AU	min. Earth dist.	10219 Mar 03 13:00	18°) 52'08	0.67607 AU
inferior conj	10218 Mar 20 14:42	3° Υ 05'48	1°54'22	inferior conj	10219 Mar 04 20:11	17° X 11'35	1°09'31
minimum elong	10218 Mar 20 12:34	3° Υ 12'59	1°53'41	minimum elong	10219 Mar 04 18:36	17° X 11'33	1°09'04
mmmum clong	10218 Mar 20 12:54 10218 Mar 22 23:53	30°R) €	. 55 11	morning rise	10219 Mar 10 09:42	11° X 18'27	1 0/07
morning rise	10218 Mar 25 22:13	27° ₩ 04'16		direct	10219 Mar 10 09:42 10219 Mar 13 20:50	10° H 09'34	
direct	10218 Mar 29 21:28	25°) (34'43		morning max el	10219 Mar 20 20:31	13° X 59'36	19°13'06
morning max el	10218 Apr 06 15:41		20°14'43	orining mux or	10219 Mar 20 20:31 10219 Apr 02 01:00	13 γ (3930	17 13 00
	10218 Apr 06 16:47	0° Υ		greatest brilliancy	10219 Apr 02 20:29	1° Υ 12'40	-0.7m
desc. node	10218 Apr 00 10.47	13° Υ 12'24		desc. node	10219 Apr 04 02:39	3°Υ05'56	V.,.111
	10218 Apr 28 15:41	0°8		morning set	10219 Apr 04 02:39	17° Y 49'52	
morning set	10218 May 04 16:18	9° 8 12'41			10219 Apr 21 13:48	0°8	
max. Earth dist.	10218 May 14 11:06		1.43925 AU	max. Earth dist.	10219 Apr 27 02:10	8° 8 38'01	1.45131 AU
	10218 May 17 19:43	0°II			r ,	-	

superior conj	10219 Apr 30 06:13	13° 8 38'20		morning set	10220 Mar 23 15:29	27°) € 32'30	
minimum elong	10219 Apr 30 02:59 10219 May 10 10:21	13° 8 25'28 0° П	2°11'18		10220 Mar 25 04:44	0 ° Υ	
evening rise	10219 May 10 10:21 10219 May 14 18:23	7° П 06'49		superior conj	10220 Apr 08 12:56	22° Y '32'57	-1°52'04
asc. node	10219 May 28 02:48	28° ∏ 34'17		minimum elong	10220 Apr 08 03:54	21° Y ′57'37	
	10219 May 29 02:38	0° ©		max. Earth dist.	10220 Apr 08 20:39		1.45631 AU
evening max el	10219 Jun 03 02:27	6°508'09	18°21'18		10220 Apr 13 07:17	0° 8	
retrograde	10219 Jun 09 12:09	9° © 34'05		evening rise	10220 Apr 24 08:02	17° 8 20'23	
evening set	10219 Jun 12 13:07	8° 5 43'15			10220 May 02 08:39	Π °0	
inferior conj	10219 Jun 18 09:34	3° © 15'55	2°59'58	greatest brilliancy	10220 May 03 18:26	2° Ⅱ 11'46	-0.8m
minimum elong	10219 Jun 18 11:30	3° © 10'19	2°59'12	asc. node	10220 May 13 23:54	16° Ⅲ 53'57	
min. Earth dist.	10219 Jun 20 17:45	0°533'16	0.64325 AU	evening max el	10220 May 16 13:07	19° Ⅱ 45'10	18°54'45
	10219 Jun 21 05:43	30°RⅡ 260Ⅲ50145		retrograde	10220 May 23 06:58	23° Ⅱ 29'11	
morning rise direct	10219 Jun 24 08:41 10219 Jul 01 00:16	26° Ⅲ 58'45 24° Ⅲ 18'16		evening set inferior conj	10220 May 26 15:57 10220 Jun 01 04:53	22° Ⅲ 23'25 16° Ⅲ 40'25	3°16'09
desc. node	10219 Jul 01 00:10	24° I 18'18		minimum elong	10220 Jun 01 04:33	16° Ⅱ 38'05	3°15'40
dese. Hode	10219 Jul 12 07:02	0°95		min. Earth dist.	10220 Jun 01 03:38 10220 Jun 02 22:02	14° Ⅱ 30′50	0.66054 AU
morning max el	10219 Jul 14 17:23	2° © 18'54	27°29'50	morning rise	10220 Jun 06 18:39	10° Ⅱ 19'56	0.0000 1110
	10219 Aug 04 08:36	$0^{\circ}\Omega$		direct	10220 Jun 13 03:34	7° Ⅱ 35'21	
morning set	10219 Aug 18 21:34	25° Ω 58'11		desc. node	10220 Jun 16 23:39	8° Ⅲ 25'31	
_	10219 Aug 20 22:05	0° m)		morning max el	10220 Jun 26 04:04	15° Ⅲ 20′26	26°33'39
max. Earth dist.	10219 Aug 23 15:07	5° m 33'15	1.33007 AU		10220 Jul 08 04:39	0 \circ \mathfrak{s}	
asc. node	10219 Aug 24 02:30	6° Mg 32′33			10220 Jul 27 03:53	0 $^{\circ}\Omega$	
				morning set	10220 Aug 01 01:57	9° Ω 00'42	
superior conj	10219 Aug 26 23:58	12° Mp 40'07		max. Earth dist.	10220 Aug 05 03:22	16° Ω 51'18	1.34488 AU
minimum elong	10219 Aug 26 22:38	12° Tp 32'56	0°27'59				
evening rise	10219 Sep 03 01:23	27° m 51'30		superior conj	10220 Aug 09 22:44	26° Ω 35'20	
	10219 Sep 04 01:40	0° Ր		minimum elong behind sun begin	10220 Aug 09 22:46	26° Ω 35'31 26° Ω 05'24	0°00'33
evening max el	10219 Sep 21 15:55 10219 Sep 24 21:39	3°M30'57	22°35'33	behind sun begin	10220 Aug 09 16:56 10220 Aug 10 04:36	20 δ l 03 24 27° Ω 05'42	
desc. node	10219 Sep 27 00:40	5°M26'04	22 33 33	asc. node	10220 Aug 10 04:30	26° Ω 38'31	
retrograde	10219 Oct 07 23:13	10°ML01'34		asc. node	10220 Aug 07 23:21 10220 Aug 11 14:06	0°m)	
evening set	10219 Oct 11 12:26	9°M33'51		evening rise	10220 Aug 17 10:50	12° m) 19'03	
min. Earth dist.	10219 Oct 19 05:08	6° ™ 07'19	0.54971 AU	Č	10220 Aug 26 13:20	0∘ <u>v</u>	
inferior conj	10219 Oct 20 06:55	5°M30'42	-5°34'19	evening max el	10220 Sep 05 16:36	13° ≏ 55'26	21°02'33
minimum elong	10219 Oct 20 01:56	5° ™ 37'48	5°33'34	desc. node	10220 Sep 12 21:55	18° ≏ 53'57	
morning rise	10219 Oct 28 17:10	1°M42'57		retrograde	10220 Sep 17 11:11	19° ≏ 45'47	
direct	10219 Oct 31 22:14	1° ™ 19′27		evening set	10220 Sep 19 19:29	19° ≏ 32'49	
morning max el	10219 Nov 12 11:02		21°08'58	inferior conj	10220 Sep 28 23:11	15° ≏ 37'16	
asc. node	10219 Nov 20 02:50	16° ™ 10'39		minimum elong	10220 Sep 28 13:23	15° Ω 51'07	4°28'55
	10219 Nov 28 00:16	0° ⊼ ¹		min. Earth dist.	10220 Sep 29 13:14	15° £ 17'23	0.54625 AU
morning set	10219 Dec 02 06:14	8° ∡ ³36'33		morning rise	10220 Oct 07 07:36	11° Ω 43'17 11° Ω 09'43	
superior conj	10219 Dec 09 13:44	23° х 54'19	1°32'57	direct morning max el	10220 Oct 11 06:25 10220 Oct 24 04:14	11° 22 09′43 17° 2 20′49	22°49'50
minimum elong	10219 Dec 09 15:31	24° × 03'32	1°33'16	morning max ci	10220 Oct 24 04:14 10220 Nov 03 06:07	0°M	22 49 30
minimum crong	10219 Dec 12 13:26	0°る	1 33 10	asc. node	10220 Nov 05 23:45	4°M29'04	
max. Earth dist.	10219 Dec 14 05:42	3° る 20'40	1.35404 AU	morning set	10220 Nov 15 17:20	23°M24'53	
evening rise	10219 Dec 18 07:08	11° る 09'47		S	10220 Nov 18 19:11	0° ∡ ¹	
desc. node	10219 Dec 23 23:04	21° る 24'11					
	10219 Dec 29 01:46	0° ≈		superior conj	10220 Nov 22 17:09	8° ≯ 25'31	1°39'21
	10220 Jan 19 21:55	0°) €		minimum elong	10220 Nov 22 17:42	8° ∡ °28'33	1°39'45
evening max el	10220 Jan 22 16:15	2° ¥ 49′59	26°28'09	max. Earth dist.	10220 Nov 25 22:46	15° ∡ 15'18	1.33746 AU
retrograde	10220 Feb 04 14:53	10°) €08'01		evening rise	10220 Nov 30 14:51	24° ∡ ¹42'44 —	
evening set	10220 Feb 10 23:02	7°) ₹35'29			10220 Dec 03 08:42	0°る	
min. Earth dist.	10220 Feb 15 01:56	3°) €21'22	0.66507 AU	desc. node	10220 Dec 09 20:05	11° る 39'34	
asc. node	10220 Feb 16 01:47	2°) (09'44 1°) (11'49	0°15'39	ovanina may al	10220 Dec 21 14:07	0°≈ 16°224'20	27012120
inferior conj minimum elong	10220 Feb 16 20:53 10220 Feb 16 20:28	1° ★ 11′49	0°15'39 0°15'45	evening max el retrograde	10221 Jan 04 05:34 10221 Jan 17 16:26	16°≈24'29 23°≈47'09	27°12'28
transit middle	10220 Feb 16 20:28	1° ∺ 13'06	0°15'45	evening set	10221 Jan 17 10.26 10221 Jan 24 10:14	23 ≈4709 21°≈13'16	
transit begin	10220 Feb 16 19:54	1° ∺ 14'49	3 13 73	min. Earth dist.	10221 Jan 28 07:59	17°≈32'17	0.65049 AU
transit end	10220 Feb 16 21:02	1°) (11'23		inferior conj	10221 Jan 30 14:32	15°≈01'24	
	10220 Feb 17 20:55	30°R≈		minimum elong	10221 Jan 30 15:56	14° ≈ 57'32	
morning rise	10220 Feb 22 18:49	25° ≈ 28'50		asc. node	10221 Feb 01 22:57	12° ≈ 31'34	
direct	10220 Feb 25 19:13	24° ≈ 37'46		morning rise	10221 Feb 05 23:09	9° ≈ 30'58	
morning max el	10220 Mar 03 08:05	28° ≈ 07'58	18°27'29	direct	10221 Feb 08 14:32	8° ≈ 54'03	
	10220 Mar 05 02:04	0°) €		morning max el	10221 Feb 15 00:04		17°58'39
desc. node	10220 Mar 20 23:24	23°) 18′33			10221 Feb 27 11:55	0° ℋ	

	10221 Mar. 04, 19,45	00 W 4212 4			10222 I 20 10:20	220-210140	
morning set desc. node	10221 Mar 04 18:45 10221 Mar 07 20:09	8°) 42'24 13°) 44'47		morning rise direct	10222 Jan 20 19:30 10222 Jan 23 04:01	23°る18'48 22°る52'15	
desc. node	10221 Mar 07 20:09 10221 Mar 17 21:15	13 χ 4447 0° Υ		morning max el	10222 Jan 29 17:38	22 3 32 13 26° る 15'03	17°47'14
	10221 Mai 1/ 21.13	0 1		morning max er	10222 Jan 29 17.38 10222 Feb 01 23:04	20 ⊘ 13 03 0°≈	1 / 4 / 14
superior conj	10221 Mar 18 23:53	1° Y 45'48	1016/25	morning set	10222 Feb 01 23:04 10222 Feb 15 00:08	0 ≈ 21°≈08'02	
minimum elong	10221 Mar 18 25:35 10221 Mar 18 15:35	1°Υ12'54	1°15'24	morning set	10222 Feb 13 00:08 10222 Feb 20 03:37	0° ₩	
max. Earth dist.	10221 Mar 18 15:35 10221 Mar 22 16:16	7° Υ 34'42	1.45387 AU	desc. node	10222 Feb 20 03:37 10222 Feb 22 16:57	4° ¥ 20′23	
evening rise	10221 Mai 22 10.10 10221 Apr 04 02:13	26° Υ 51'25	1.43367 AU	desc. node	10222 FC0 22 10.57	4 /(2023	
evening rise	10221 Apr 04 02:13 10221 Apr 06 03:17	0°8		superior conj	10222 Feb 27 06:40	11°) 57'41	-0°33'//1
greatest brilliancy	10221 Apr 00 03:17 10221 Apr 18 03:22	18° 8 10'22	-0.6m	minimum elong	10222 Feb 27 03:08	11° X 3741	
greatest offinancy	10221 Apr 18 03.22 10221 Apr 26 17:46	0°Ⅱ	-0.0111	max. Earth dist.	10222 Pc0 27 03:08 10222 Mar 05 10:47	21° H 57'57	1.44428 AU
avanina may al	-	3° ∏ 26′22	19°44'36	max. Earth dist.	10222 Mar 10 12:57	21 γ (3/3/	1.44426 AU
evening max el	10221 Apr 29 19:14	3 H 2622 4° H 28'30	19 44 30	avanina rias	10222 Mar 10 12.37 10222 Mar 14 13:40	6° Υ 14'32	
asc. node	10221 Apr 30 21:03			evening rise			
retrograde	10221 May 07 04:49	7° Ⅱ 39'48			10222 Mar 30 11:43	0°8	20040122
evening set	10221 May 10 22:32	6° Ⅱ 18'22	2017147	evening max el	10222 Apr 12 19:49	17° 8 09'10	20°48'33
inferior conj	10221 May 16 07:06	0° Ⅱ 21'08		asc. node	10222 Apr 17 18:15	21° 8 04'33	
minimum elong	10221 May 16 06:41	0° Ⅱ 22'32	3°1/23	retrograde	10222 Apr 21 03:30	22° 8 00'49	
	10221 May 16 13:26	30° ₹ 8	0.65050.433	evening set	10222 Apr 25 06:50	20° 8 23'39	2005122
min. Earth dist.	10221 May 17 09:28	28° 8 53'10	0.67358 AU	inferior conj	10222 Apr 30 13:41	14° 8 13'50	3°07'23
morning rise	10221 May 21 14:30	24° 8 01'34		minimum elong	10222 Apr 30 12:20	14° 8 18'31	3°06'54
direct	10221 May 27 12:55	21° 8 23'30		min. Earth dist.	10222 May 01 02:08	13° 8 30'48	0.68200 AU
desc. node	10221 Jun 03 20:38	24° 8 24'51		morning rise	10222 May 05 17:36	7° 8 57'30	
morning max el	10221 Jun 08 13:54	28° 8 36'47	25°16'30	direct	10222 May 11 03:17	5° 8 34'10	
	10221 Jun 09 21:47	Π $^{\circ}$ 0		desc. node	10222 May 21 17:33	11° 8 47'44	
	10221 Jul 01 22:57	0ංම		morning max el	10222 May 21 23:24	12° 8 02'24	23°48'32
morning set	10221 Jul 14 14:43	21°©17'16			10222 Jun 05 08:36	Π °0	
max. Earth dist.	10221 Jul 18 05:36	27° © 55'09	1.36424 AU		10222 Jun 24 18:12	0 \circ	
	10221 Jul 19 08:11	$0 {\circ} \Omega$		morning set	10222 Jun 26 06:58	2° 5 35'42	
				max. Earth dist.	10222 Jun 30 02:51	9° 5 14'30	1.38652 AU
superior conj	10221 Jul 24 12:12	10° Ω 00'33	-0°32'06				
minimum elong	10221 Jul 24 14:12	10° Ω 10'32	0°32'06	superior conj	10222 Jul 07 12:49	22°547'26	-1°05'13
asc. node	10221 Jul 27 20:13	16° Ω 41'49		minimum elong	10222 Jul 07 17:08	23° © 07'51	1°04'56
evening rise	10221 Aug 01 16:13	26° Ω 31'42			10222 Jul 11 07:17	$0^{\circ}\Omega$	
	10221 Aug 03 09:32	0° m)		asc. node	10222 Jul 14 17:09	6° Ω 39'06	
evening max el	10221 Aug 19 00:45	25° Mp 00'06	19°46'54	evening rise	10222 Jul 16 14:53	10° £ 22'55	
	10221 Aug 28 22:23	0∘ 亚			10222 Jul 27 11:55	0° m)	
retrograde	10221 Aug 29 02:41	0° £ 00'05		evening max el	10222 Aug 01 21:45	6° m 50'55	18°52'14
	10221 Aug 29 07:00	30°R, Mp		retrograde	10222 Aug 10 09:50	11° m 05'13	
evening set	10221 Aug 30 23:33	29° m 50'33		evening set	10222 Aug 12 08:03	10° m 53'00	
desc. node	10221 Aug 30 19:11	29° m 52'18		desc. node	10222 Aug 17 16:24	8° m 30'45	
inferior conj	10221 Sep 08 21:09	25° Mp 48'42	-2°46'48	inferior conj	10222 Aug 20 12:48	6° Mp 34′08	-0°53'00
minimum elong	10221 Sep 08 13:42	26° Mp 00'11	2°44'09	minimum elong	10222 Aug 20 10:34	6° Mp38′07	0°52'21
min. Earth dist.	10221 Sep 10 23:29	24° Mp 31'14	0.55236 AU	min. Earth dist.	10222 Aug 23 13:59	4° Mp 24'06	0.56690 AU
morning rise	10221 Sep 17 02:03	21° m 29'02		morning rise	10222 Aug 28 09:48	1° m 37'22	
direct	10221 Sep 21 20:15	20° m 39'12		direct	10222 Sep 02 23:03	0° m 23'37	
morning max el	10221 Oct 05 15:39	27° m 29'56	24°37'00	morning max el	10222 Sep 17 05:14	7° m 45'45	26°13'12
	10221 Oct 08 02:47	0∘ ত			10222 Oct 03 18:51	0∘ ত	
asc. node	10221 Oct 23 20:37	23° ≏ 23'12		asc. node	10222 Oct 10 17:29	12° £ 44'05	
	10221 Oct 27 06:25	0° M .		morning set	10222 Oct 15 15:58	22° ≙ 53'21	
morning set	10221 Oct 31 05:08	8° ጤ 11'59			10222 Oct 18 22:34	0° M .	
superior conj	10221 Nov 07 01:26	23°ML08'02	1°39'17	superior conj	10222 Oct 22 12:25	7°M55'29	1°33'16
minimum elong	10221 Nov 07 00:50	23°MJ04'48	1°39'36	minimum elong	10222 Oct 22 10:54	7° M 47'05	1°33'24
max. Earth dist.	10221 Nov 08 23:55	27° M 21'17	1.32519 AU	max. Earth dist.	10222 Oct 23 06:58	9° M ₊38'16	1.31758 AU
	10221 Nov 10 05:23	0°⊀		evening rise	10222 Oct 29 11:07	23°ML01'12	
evening rise	10221 Nov 14 09:09	8° ∡ ¹42'26			10222 Nov 01 20:57	0° ∡ ¹	
	10221 Nov 25 18:41	8°0		desc. node	10222 Nov 13 14:18	21° ₹ ¹00'09	
desc. node	10221 Nov 26 17:10	1°る34'25			10222 Nov 19 16:03	0°ಕ	
evening max el	10221 Dec 17 17:21	29° ප 35'13	27°30'36	evening max el	10222 Nov 30 00:55	12° පි 08'07	27°16'55
-	10221 Dec 18 03:54	0° ≈		retrograde	10222 Dec 13 21:54	19° ට 21'22	
retrograde	10221 Dec 31 11:04	6° ≈ 54'44		evening set	10222 Dec 20 22:01	17° ට 08'23	
evening set	10222 Jan 07 11:00	4°≈26'51		min. Earth dist.	10222 Dec 24 15:25	14° ට 21'33	0.61252 AU
min. Earth dist.	10222 Jan 11 04:59	1°≈16'13	0.63272 AU	inferior conj	10222 Dec 27 17:15	11° る 39'33	
	10222 Jan 12 11:58	30°Ŗる		minimum elong	10222 Dec 27 23:35	11° ට 25'35	
inferior conj	10222 Jan 13 22:25	28° ට 33'35	-1°56'46	morning rise	10223 Jan 04 03:42	6° ප 43'53	
minimum elong	10222 Jan 14 02:12	28° ට 24'08		direct	10223 Jan 06 07:57	6° ට 24'08	
asc. node	10222 Jan 19 20:06	23° ට 44'39		asc. node	10223 Jan 06 17:13	6° පි 24'46	
						- *	

morning max el	10223 Jan 13 09:33	9° ට 57'31	17°54'01	morning rise	10223 Dec 17 18:22	19° ∡ ³36′21	
	10223 Jan 26 13:51	0° ≈		direct	10223 Dec 19 22:06	19° ∡ ¹20′03	
morning set	10223 Jan 29 01:03	4° ≈ 28'32		asc. node	10223 Dec 24 14:17	20° ∡ ¹41'21 −	
				morning max el	10223 Dec 27 20:13	23° ∡ 13'32	18°20'22
superior conj	10223 Feb 08 14:38	23°≈21'26	0°07'19		10224 Jan 02 05:45	0°る	
minimum elong	10223 Feb 08 15:18	23°≈24'18	0°07'32	morning set	10224 Jan 12 15:47	18° る 26'59	
behind sun begin	10223 Feb 08 07:55	22°≈52'19			10224 Jan 18 17:54	0° ≈	
behind sun end	10223 Feb 08 22:41	23°≈56'14			100011 010100	50 40142	0044445
desc. node	10223 Feb 09 13:46	25°≈01'13		superior conj	10224 Jan 21 21:28	5°≈49'43	0°41'45
E 41 E 4	10223 Feb 12 12:01	0° \	1 42050 ATT	minimum elong	10224 Jan 22 00:13	6°≈02'20	0°41'44
max. Earth dist.	10223 Feb 16 01:25	5° ¥ 54'51 16° ¥ 05'38	1.42859 AU	desc. node	10224 Jan 27 10:38	15°≈43'59	1 400/2 ATT
evening rise	10223 Feb 22 09:26	0°Υ		max. Earth dist.	10224 Jan 29 10:53	19°≈12'02 26°≈48'40	1.40862 AU
	10223 Mar 03 11:09 10223 Mar 25 18:42	0°8		evening rise	10224 Feb 02 23:57 10224 Feb 04 22:58	20 ≈ 48 40	
evening max el	10223 Mar 26 15:00	0° 8 52'25	22°03'00		10224 Feb 04 22:38 10224 Feb 25 03:27	0° Υ	
asc. node	10223 Mai 20 15:00 10223 Apr 04 15:28	6° 8 26'02	22 03 00	evening max el	10224 Pc0 23 03:27 10224 Mar 08 06:22	14° Υ 38'16	23°22'55
retrograde	10223 Apr 04 13.28 10223 Apr 05 01:10	6° 8 26'50		retrograde	10224 Mar 18 20:21	20°Υ53'26	23 22 33
evening set	10223 Apr 09 15:05	4° 8 34'19		asc. node	10224 Mar 21 12:41	20°Υ18'54	
evening set	10223 Apr 13 15:50	30°RΥ		evening set	10224 Mar 23 21:44	18° Y 46'42	
inferior conj	10223 Apr 14 22:25	28° Y 14'17	2°46'31	inferior conj	10224 Mar 29 07:23	12° Υ 19'43	2°16'06
minimum elong	10223 Apr 14 20:27	28° Υ 21'10	2°45'55	minimum elong	10224 Mar 29 05:11	12° Υ 27'18	2°15'24
min. Earth dist.	10223 Apr 14 21:59	28° Y 15'47	0.68587 AU	min. Earth dist.	10224 Mar 28 18:49	13° Y 02'58	0.68535 AU
morning rise	10223 Apr 20 01:39	22°Υ02'38	0.00007110	morning rise	10224 Apr 03 12:35	6°Υ13'57	0.00000 110
direct	10223 Apr 24 21:41	19° Υ 58'57		direct	10224 Apr 07 19:10	4° Υ 31'58	
morning max el	10223 May 04 10:53	25° Ƴ 35'42	22°19'14	morning max el	10224 Apr 16 03:36	9° Υ 19'23	20°56'41
5 5	10223 May 08 10:49	0°8		desc. node	10224 Apr 24 11:18	19° Ƴ 17'54	
desc. node	10223 May 08 14:27	0° 8 10'49			10224 May 02 02:05	0°8	
	10223 May 29 20:22	0°II		morning set	10224 May 16 10:43	21° 8 42'19	
morning set	10223 Jun 06 21:47	12° Ⅱ 43'41		C	10224 May 21 16:31	$\Pi^{\circ}0$	
max. Earth dist.	10223 Jun 12 01:25	21° Ⅱ 14'38	1.40920 AU	max. Earth dist.	10224 May 24 05:41	4° Ⅱ 06'50	1.42957 AU
	10223 Jun 17 03:45	0°ಅ			•		
				superior conj	10224 May 31 05:49	15° ∏ 43'45	-2°01'07
superior conj	10223 Jun 19 20:11	4°9544'58	-1°36'29	minimum elong	10224 May 31 11:31	16° Ⅱ 07'52	2°01'11
minimum elong	10223 Jun 20 02:19	5°512'24	1°36'12		10224 Jun 08 11:30	0ං ම	
evening rise	10223 Jun 30 03:20	23°543'02		evening rise	10224 Jun 12 01:18	6°521'26	
asc. node	10223 Jul 01 14:08	26°ණ25'40		asc. node	10224 Jun 17 11:08	15° © 56'35	
	10223 Jul 03 12:21	$0^{\circ}\Omega$			10224 Jun 26 13:09	0 $^{\circ}\Omega$	
evening max el	10223 Jul 16 04:12	19° Ω 21'18	18°18'39	evening max el	10224 Jun 28 16:07	2° Ω 21'32	18°04'57
retrograde	10223 Jul 23 12:11	23° Ω 02'50		retrograde	10224 Jul 05 07:13	5° Ω 45'19	
evening set	10223 Jul 25 17:00	22° Ω 43'38		evening set	10224 Jul 07 19:56	5° Ω 15'36	
inferior conj	10223 Aug 02 02:18	18° Ω 04'34		inferior conj	10224 Jul 14 11:54	0° Ω 16'43	
minimum elong	10223 Aug 02 03:46	18° Ω 01′28	0°43'22	minimum elong	10224 Jul 14 14:41	0° Ω 09'57	1°54'35
desc. node	10223 Aug 04 13:37	16° Ω 00'06			10224 Jul 14 18:47	30° ₹ 5	
min. Earth dist.	10223 Aug 05 11:02	15° Ω 16'44	0.58706 AU	min. Earth dist.	10224 Jul 17 16:07	27°513'30	0.60967 AU
morning rise	10223 Aug 09 11:06	12° Ω 32'32		morning rise	10224 Jul 21 06:48	24°519'23	
direct	10223 Aug 15 16:11	10° Ω 49'09	27022116	desc. node	10224 Jul 21 10:48	24°9512'52	
morning max el	10223 Aug 30 01:21	18° Ω 34'25	27-22-10	direct	10224 Jul 27 21:41	22°S07'15 0°Ω06'20	27054144
	10223 Sep 08 16:11 10223 Sep 26 09:44	0ം ⊽ 0ം⊯		morning max el	10224 Aug 11 04:13 10224 Aug 11 01:40	0°Ω	27 34 44
asc. node	10223 Sep 20 09.44 10223 Sep 27 14:21	0 == 2° ჲ 24'33			10224 Aug 11 01.40 10224 Sep 01 18:02	0° m)	
morning set	10223 Sep 27 14.21 10223 Sep 30 00:09	2 = 24 33 7° £ 24'33		morning set	10224 Sep 01 18:02 10224 Sep 13 03:44	21° m 39'27	
max. Earth dist.	10223 Sep 30 00:09 10223 Oct 06 16:28		1.31472 AU	asc. node	10224 Sep 13 03.44 10224 Sep 13 11:10	21 m/3927 22° m/18'00	
max. Lattii dist.	10223 Oct 00 10.20	21 -3711	1.314/2 AO	asc. node	10224 Sep 17 02:12	0° <u>Ω</u>	
superior conj	10223 Oct 07 00:14	22° ≏ 42'23	1°21'42	max. Earth dist.	10224 Sep 17 02:12 10224 Sep 19 00:39		1.31677 AU
minimum elong	10223 Oct 06 22:09		1°21'36	max. Lartii dist.	10224 Sep 17 00.57	T = 13 13	1.51077 110
minimum crong	10223 Oct 10 07:04	0°ML	1 2130	superior conj	10224 Sep 20 10:58	7° ჲ 22'19	1°04'54
evening rise	10223 Oct 13 18:20	7°M32'44		minimum elong	10224 Sep 20 08:44	7° Ω 09'59	1°04'33
<i>3</i>	10223 Oct 25 08:29	0° ∡ ¹		evening rise	10224 Sep 27 04:38	22° ⊆ 10'19	
desc. node	10223 Oct 31 11:29	9° ∡ 145'28			10224 Sep 30 22:17	0°M	
evening max el	10223 Nov 12 01:43	23° ₹ 52'51	26°29'05	desc. node	10224 Oct 17 08:42	27°M33'50	
5	10223 Nov 21 00:39	0°ಕ			10224 Oct 19 07:46	0° ∡ 7	
retrograde	10223 Nov 26 00:00	0° る 59'26		evening max el	10224 Oct 23 18:24		25°10'41
-	10223 Nov 30 21:22	30°R ✓		retrograde	10224 Nov 06 15:17	11° ∡ ⁴44'53	
evening set	10223 Dec 02 15:09	29° ⋌ 11'17		evening set	10224 Nov 12 09:33	10° ∡ ¹29'30	
min. Earth dist.	10223 Dec 06 15:18	26° ₰ 36′04	0.59133 AU	min. Earth dist.	10224 Nov 17 06:22	7° ∡ ¹48'34	0.57143 AU
inferior conj	10223 Dec 09 19:33	24° ∡ 10′10	-4°23'32	inferior conj	10224 Nov 20 02:12	5° ₹ 55'40	
minimum elong	10223 Dec 10 03:26	23° ₹ ′55′01	4°20'54	minimum elong	10224 Nov 20 08:26	5° ∡ ¹45'15	5°19'43

morning rise direct morning max el asc. node morning set	10224 Nov 28 09:37 10224 Nov 30 18:20 10224 Dec 09 21:39 10224 Dec 10 11:19 10224 Dec 25 05:28 10224 Dec 26 15:50	1° 🖈 44'04 1° 🖈 27'47 5° 🖈 51'00 6° 🖈 24'48 0° る 2° る49'36	19°08'04	morning rise direct morning max el asc. node morning set	10225 Nov 08 23:07 10225 Nov 11 19:33 10225 Nov 22 10:29 10225 Nov 27 08:17 10225 Dec 01 17:34 10225 Dec 10 22:02	12°M.59'12 12°M.39'12 17°M.40'26 23°M.20'15 0° 🗷 17° 🗷 27'33	20°18'30
superior conj	10225 Jan 03 22:11	19° る 07'27	1°08'00		10225 Dec 17 00:19	0°ਰ	
minimum elong	10225 Jan 04 01:17 10225 Jan 09 17:24	19° ට 22'24 0°≈	1°08'03	superior conj minimum elong	10225 Dec 18 12:09 10225 Dec 18 14:34	3°ප01'53 3°ප14'03	1°26'03 1°26'17
max. Earth dist.	10225 Jan 10 16:56	1°≈46'31	1.38671 AU	max. Earth dist.	10225 Dec 24 00:05	13°る50'38	1.36533 AU
desc. node evening rise	10225 Jan 13 07:32 10225 Jan 14 12:00	6°≈24'21 8°≈28'09		evening rise desc. node	10225 Dec 27 19:49 10225 Dec 31 04:28	20°る58'43 26°る58'37	
evening rise	10225 Jan 27 20:31	0°)		desc. flode	10226 Jan 01 22:25	20 3 3837	
evening max el	10225 Feb 18 20:01	28°) €27'09	24°42'11		10226 Jan 21 19:14	0°) €	
	10225 Feb 20 11:11	0 ° Υ		evening max el	10226 Feb 01 09:26	12° 升 16′21	25°53'35
retrograde	10225 Mar 02 11:41	5° Υ 15'05		retrograde	10226 Feb 13 22:10	19° ∺ 25'56	
evening set	10225 Mar 08 01:11	2°Υ55'55		evening set	10226 Feb 19 23:50	16° ¥ 57'11	
asc. node	10225 Mar 08 09:54 10225 Mar 10 20:38	2° Y 36'49 30° R} €		asc. node min. Earth dist.	10226 Feb 23 07:06 10226 Feb 24 06:17	13° ¥ 33'45 12° ¥ 23'17	0.67186 AU
min. Earth dist.	10225 Mar 10 20.38 10225 Mar 12 14:21	30 KM 27°) (47′08	0.68061 AU	inferior conj	10226 Feb 24 06.17 10226 Feb 25 18:22	12 K 23 17 10° H 29'55	0.67186 AU 0°47'46
inferior conj	10225 Mar 13 14:40	26° ¥ 26'17	1°36'28	minimum elong	10226 Feb 25 17:12	10°) €33'35	0°47'30
minimum elong	10225 Mar 13 12:43	26°) 32′48	1°35'51	morning rise	10226 Mar 03 11:09	4°) 40'40	
morning rise	10225 Mar 19 00:24	20° ∺ 27'49		direct	10226 Mar 06 17:37	3°) 39′34	
direct	10225 Mar 22 18:20	19° ∺ 07'15		morning max el	10226 Mar 13 11:35	7° ℋ 19'28	18°51'39
morning max el	10225 Mar 30 03:47	23° ¥ 14'43 0° Y	19°46'32	desc. node	10226 Mar 29 04:53	28° ¥ 59'07 0° Ƴ	
desc. node	10225 Apr 04 22:05 10225 Apr 11 08:07	0°γ 8° Υ 56'57		morning set	10226 Mar 29 20:40 10226 Apr 04 17:34	0° γ 9° Υ 07'10	
greatest brilliancy	10225 Apr 11 00:07	9° Υ 57'57	-0.6m	morning set	10226 Apr 18 02:46	0°8	
morning set	10225 Apr 25 09:34	0° 8 07'49		max. Earth dist.	10226 Apr 19 10:23	2° 8 03'49	1.45436 AU
-	10225 Apr 25 07:32	0°8			-		
max. Earth dist.	10225 May 06 17:11	17° 8 48'04	1.44520 AU	superior conj minimum elong	10226 Apr 21 03:56 10226 Apr 20 21:38	4° 8 46'50 4° 8 22'05	
superior conj	10225 May 11 15:11	25° 8 40'24		evening rise	10226 May 06 07:21	28° 8 54'20	
minimum elong	10225 May 11 16:14	25° 8 44'35	2°13'05		10226 May 06 23:35	$\Pi^{\circ}0$	
	10225 May 14 07:07	0°II		asc. node	10226 May 22 05:16	23° II 46'38	10022125
evening rise	10225 May 25 03:58 10225 Jun 01 04:45	18° Ⅱ 07'37 0° ©		evening max el	10226 May 26 18:28 10226 May 27 13:11	29° Ⅱ 15'21 0° ©	18°33'25
asc. node	10225 Jun 04 08:11	5°906'12		retrograde	10226 Jun 02 06:26	0 9 2° 9 47'09	
evening max el	10225 Jun 12 05:55	15° © 42'28	18°10'07	evening set	10226 Jun 05 10:52	1°549'53	
retrograde	10225 Jun 18 14:42	19° © 03'17			10226 Jun 07 19:00	30°RⅡ	
evening set	10225 Jun 21 11:17	18° © 20'33		inferior conj	10226 Jun 11 03:41	26° Ⅱ 15'37	
inferior conj	10225 Jun 27 13:43	13°503'11	2°42'37	minimum elong	10226 Jun 11 05:07	26° I 11'15	3°08'10
minimum elong min. Earth dist.	10225 Jun 27 16:12 10225 Jun 30 06:12	12°\$56'23 10°\$07'41	2°41'39 0.63174 AU	min. Earth dist. morning rise	10226 Jun 13 05:26 10226 Jun 16 22:30	23° Ⅱ 45'55 19° Ⅱ 56'38	0.65114 AU
morning rise	10225 Jul 03 19:29	6°951'04	0.03174 AU	direct	10226 Jun 23 11:52	17° I I3'15	
desc. node	10225 Jul 08 07:55	4°533'52		desc. node	10226 Jun 25 05:00	17° Ⅲ 23'12	
direct	10225 Jul 10 12:51	4°9517'53		morning max el	10226 Jul 06 22:28	25° Ⅱ 08'07	27°09'07
morning max el	10225 Jul 24 12:05	12° © 20'33	27°48'58		10226 Jul 11 08:40	0°€	
	10225 Aug 07 13:18	0°N			10226 Aug 01 00:59	0°N	
marning sat	10225 Aug 25 05:11	0°Mp 5°m>22!24		morning set	10226 Aug 11 11:57	18° Ω 55'28 27° Ω 44'06	1 22506 ATT
morning set asc. node	10225 Aug 28 00:36 10225 Aug 31 08:00	5° Mp 32'24 12° Mp 19'48		max. Earth dist.	10226 Aug 15 22:20 10226 Aug 17 00:51	2/ 3244 00 0° Mp	1.33586 AU
max. Earth dist.	10225 Sep 02 03:44	16° m/10'42	1.32381 AU	asc. node	10226 Aug 18 04:51	2° m/25'05	
superior conj	10225 Sep 04 18:48	21° m 49'58	0°43'07	superior conj	10226 Aug 19 21:33	5° m 58'33	0°16'45
minimum elong	10225 Sep 04 16:57	21°m/39'59	0°42'39	minimum elong	10226 Aug 19 20:42	5° Mp 54'07	0°16'21
C	10225 Sep 08 12:38	0∘ ⊽		evening rise	10226 Aug 27 02:54	21° m 21'48	
evening rise	10225 Sep 11 16:07	6° ≏ 48'44			10226 Aug 31 07:32	0° ⊽	
	10225 Sep 23 17:54	0°M		evening max el	10226 Sep 16 18:52	25° £ 12'31	21°54'12
desc. node	10225 Oct 04 05:54	14°M03'34	22022122	desc. node	10226 Sep 21 03:09	28° Ω 46'19	
evening max el retrograde	10225 Oct 05 05:33 10225 Oct 18 17:31	15°M02'33 21°M46'37	23°33'22	retrograde	10226 Sep 23 06:53 10226 Sep 29 08:36	0° ጤ 1° ጤ 27'48	
evening set	10225 Oct 18 17.31 10225 Oct 23 03:38	21°M04'05		evening set	10226 Sep 29 08:36 10226 Oct 02 08:04	1°M07'56	
min. Earth dist.	10225 Oct 29 15:39	17° M 59'07	0.55575 AU	<i>5</i>	10226 Oct 05 19:25	30°R <u>₽</u>	
inferior conj	10225 Oct 31 12:40	16°M52'34	-5°44'20	inferior conj	10226 Oct 11 08:07	27° ჲ 09'33	
minimum elong	10225 Oct 31 12:27	16°M52'53	5°44'01	minimum elong	10226 Oct 11 00:14	27° ≙ 20'34	5°12'51

10228 Jul 30 19:12

0° M

10227 Aug 24 21:36

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evening max el	10228 Aug 11 09:01	17° m 17'04	19°21'05	evening rise	10229 Jul 09 08:39	3° Ω 27'41	
retrograde	10228 Aug 20 18:14	21° m 56'33		evening max el	10229 Jul 25 10:38	29° Ω 26′25	18°35'33
evening set	10228 Aug 22 14:23	21°M)46'35			10229 Jul 26 00:41	0° m	
desc. node	10228 Aug 24 21:39	21°Mp08'02		retrograde	10229 Aug 02 09:13	3° m 24'34	
inferior conj	10228 Aug 31 05:39	17° m)38'38	-1°57'48	evening set	10229 Aug 04 10:03	3° m 09'48	
minimum elong	10228 Aug 31 00:24	17° m)47'13	1°55'55		10229 Aug 10 13:06	30° R Ω	
min. Earth dist.	10228 Sep 02 19:45	15° m 57'23	0.55760 AU	desc. node	10229 Aug 11 18:53	29° Ω 04'53	
morning rise	10228 Sep 08 07:44	13°Mp03'21		inferior conj	10229 Aug 12 06:30	28° Ω 42'47	-0°08'54
direct	10228 Sep 13 10:05	12°Mp04'10		minimum elong	10229 Aug 12 06:08	28° Ω 43'28	0°09'03
morning max el	10228 Sep 27 11:35	19° m 10'16	25°20'14	transit middle	10229 Aug 12 06:08	28° Ω 43'28	0°09'03
	10228 Oct 06 14:45	0∘ ಹ		transit begin	10229 Aug 12 03:08	28° Ω 49'12	
asc. node	10228 Oct 17 23:00	18° ≏ 53'50		transit end	10229 Aug 12 09:08	28° Ω 37'45	
	10228 Oct 23 10:48	0°M₊		min. Earth dist.	10229 Aug 15 12:50	26° Ω 14'13	0.57498 AU
morning set	10228 Oct 24 07:10	1° M 48'17		morning rise	10229 Aug 19 22:44	23° Ω 30′24	
	10000 0 . 01 00 06	1.6000 4.5140	100506	direct	10229 Aug 25 19:36	22° Ω 04'06	26046120
superior conj	10228 Oct 31 03:06	16°M45'43	1°37'26	morning max el	10229 Sep 09 03:27	29° Ω 37'08	26°46'30
minimum elong	10228 Oct 31 02:05	16°M40'07	1°37'42		10229 Sep 09 12:47	0° m)	
max. Earth dist.	10228 Nov 01 13:17	19°M53'34	1.32133 AU	1	10229 Sep 30 11:08	0∘ ⊽	
	10228 Nov 06 06:12	0° द्र ¹ 2° द्र ¹ 05'53		asc. node	10229 Oct 04 19:51 10229 Oct 08 17:04	8° £ 23'50 16° £ 25'48	
evening rise desc. node	10228 Nov 07 06:24 10228 Nov 20 19:37	2° x '03'33 27° x '14'00		morning set	10229 Oct 08 17:04 10229 Oct 14 21:49	0°M	
desc. node	10228 Nov 20 19.57 10228 Nov 22 12:52	27 x ·1400			10229 Oct 14 21.49	U IIG	
evening max el	10228 Nov 22 12.32 10228 Dec 09 21:48	0 8 22° る 20'16	27028153	superior conj	10229 Oct 15 14:41	1°M33'45	1°29'02
retrograde	10228 Dec 09 21:48 10228 Dec 23 17:39	22 3 2010 29° る 38'10	21 28 33	minimum elong	10229 Oct 15 14:41 10229 Oct 15 12:52	1°M23'42	1°29'04
evening set	10228 Dec 23 17:39 10228 Dec 30 18:23	29 3 38 10 27° る 15'24		max. Earth dist.	10229 Oct 15 12:32 10229 Oct 15 21:46	2°ML13'10	1.31582 AU
min. Earth dist.	10229 Jan 03 11:29	24°る15'51	0.62433 AU	evening rise	10229 Oct 22 10:54	16°M31'11	1.51562 AC
inferior conj	10229 Jan 06 08:59	21° る 31'31		evening rise	10229 Oct 22 10:54 10229 Oct 29 03:51	0° ∡ 7	
minimum elong	10229 Jan 06 13:53	21° る 19'54		desc. node	10229 Nov 07 16:47	16° ∡ 24'08	
morning rise	10229 Jan 13 11:46	16° る 24'32	2 20 .0	dese. node	10229 Nov 17 18:16	0°ਰ	
asc. node	10229 Jan 13 22:34	16° ප 16'19		evening max el	10229 Nov 22 03:01	4° る 34'29	27°00'44
direct	10229 Jan 15 17:56	16° පි 01'26		retrograde	10229 Dec 06 00:57	11° る 44'27	
morning max el	10229 Jan 22 11:52	19° る 27'56	17°47'47	evening set	10229 Dec 12 22:20	9° ට 41'17	
C	10229 Jan 30 06:15	0° ≈		min. Earth dist.	10229 Dec 16 17:35	7° る 00'49	0.60354 AU
morning set	10229 Feb 07 09:27	14° ≈ 02'36		inferior conj	10229 Dec 19 21:14	4° る 23'54	-3°42'45
desc. node	10229 Feb 16 19:14	0° ∺ 27'00		minimum elong	10229 Dec 20 04:27	4° る 08'52	3°39'55
	10229 Feb 16 12:54	0°)			10229 Dec 26 09:59	30°Ŗ ⋌ ¹	
				morning rise	10229 Dec 27 13:10	29° ∡ ¹36'53	
superior conj	10229 Feb 18 21:35	3° ¥ 59'57	-0°15'44	direct	10229 Dec 29 16:37	29° ₹ 19'00	
minimum elong	10229 Feb 18 20:03	3° ¥ 53'31	0°15'15	asc. node	10229 Dec 31 19:39	29° х ³37′21	
behind sun begin	10229 Feb 18 17:16	3°) 41′48			10230 Jan 01 20:46	ರ∘ರ	
behind sun end	10229 Feb 18 22:50	4° ∺ 05'14		morning max el	10230 Jan 06 01:55	3° ට 00'06	18°02'39
max. Earth dist.	10229 Feb 25 17:56	15° 米 16′21	1.43825 AU	morning set	10230 Jan 21 16:53	27° る 41'19	
evening rise	10229 Mar 05 14:21	27° ¥ 40′14			10230 Jan 22 22:46	0° ≈	
	10229 Mar 07 02:35	0° Υ					
	10229 Mar 27 16:05	0°8		superior conj	10230 Jan 31 15:45	15° ≈ 52'21	0°22'53
evening max el	10229 Apr 05 05:16	_	21°19'17	minimum elong	10230 Jan 31 17:34	16° ≈ 00′23	0°22'57
asc. node	10229 Apr 11 20:48	15° 8 06'05		desc. node	10230 Feb 03 16:06	21° ≈ 09'09	
retrograde	10229 Apr 14 00:02	15° 8 28'32		max. Earth dist.	10230 Feb 08 06:29	28° ≈ 57'56	1.42054 AU
evening set						001/	
	10229 Apr 18 07:39	13° 8 44'59	2050145		10230 Feb 08 21:24	0°) {	
inferior conj	10229 Apr 23 14:28	7° 8 30'38		evening rise	10230 Feb 08 21:24 10230 Feb 13 17:21	7°) 52'15	
minimum elong	10229 Apr 23 14:28 10229 Apr 23 12:49	7° 엉 30'38 7° 엉 36'24	2°59'13	-	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19	7° ¥ 52'15 0° Υ	22027/147
minimum elong min. Earth dist.	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26	7° 엉 30'38 7° 엉 36'24 7° 엉 06'25		evening max el	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45	7°) 52'15 0° Υ 24° Υ 03'40	22°36'46
minimum elong	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45	7° 엉 30'38 7° 엉 36'24 7° 엉 06'25 1° 엉 15'55	2°59'13	evening max el retrograde	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40	7°) 52'15 0° Υ 24° Υ 03'40 29° Υ 55'25	22°36'46
minimum elong min. Earth dist. morning rise	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42	7° 엉 30'38 7° 엉 36'24 7° 엉 06'25 1° 엉 15'55 30° _R Y	2°59'13	evening max el retrograde asc. node	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59	7° X 52'15 0° Υ 24° Υ 03'40 29° Υ 55'25 29° Υ 51'34	22°36'46
minimum elong min. Earth dist.	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42	7°\dagger30'38 7°\dagger36'24 7°\dogger306'25 1°\dagger315'55 30°\daggerY00'15	2°59'13	evening max el retrograde asc. node evening set	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23	7°¥52'15 0°Υ° 24°Υ03'40 29°Υ55'25 29°Υ51'34 27°Υ56'48	
minimum elong min. Earth dist. morning rise direct	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08	7°\daysig 30'38 7°\daysig 36'24 7°\do'6'25 1°\do'15'55 30°\racket 29°\racket 00'15 0°\do'8	2°59'13 0.68417 AU	evening max el retrograde asc. node evening set inferior conj	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 23:30	7° ¥52'15 0° Υ' 24° Υ'03'40 29° Υ'55'25 29° Υ'51'34 27° Υ'56'48 21° Υ'33'40	2°34'45
minimum elong min. Earth dist. morning rise direct morning max el	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39	7°\d30'38 7°\d36'24 7°\d06'25 1°\d15'55 30°\RY 29°\Y00'15 0°\d5 5°\d07'13	2°59'13	evening max el retrograde asc. node evening set inferior conj minimum elong	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 23:30 10230 Apr 07 21:23	7° \ 52'15 0° Υ' 24° Υ'03'40 29° Υ'55'25 29° Υ'51'34 27° Υ'56'48 21° Υ'33'40 21° Υ'41'02	2°34'45 2°34'06
minimum elong min. Earth dist. morning rise direct	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52	7°\dash30'38 7°\dash36'24 7°\dosh36'25 1°\dosh35'55 30°\R\Y 29°\Y00'15 0°\dosh50'06	2°59'13 0.68417 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 23:30 10230 Apr 07 21:23 10230 Apr 07 17:54	7° ¥52'15 0° Ψ 24° Ψ03'40 29° Ψ55'25 29° Ψ51'34 27° Ψ56'48 21° Ψ33'40 21° Ψ41'02 21° Ψ53'08	2°34'45
minimum elong min. Earth dist. morning rise direct morning max el desc. node	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09	7°830'38 7°836'24 7°806'25 1°815'55 30°RY 29°Y'00'15 0°8 5°807'13 6°850'06 0°用	2°59'13 0.68417 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 23:30 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16	7° ¥ 52'15 0° Υ 24° Υ 03'40 29° Υ 55'25 29° Υ 51'34 27° Υ 56'48 21° Υ 33'40 21° Υ 41'02 21° Υ 53'08 15° Υ 24'26	2°34'45 2°34'06
minimum elong min. Earth dist. morning rise direct morning max el	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59	7°\dash30'38 7°\dash36'24 7°\dosh36'25 1°\dosh35'55 30°\R\Y 29°\Y00'15 0°\dosh50'06	2°59'13 0.68417 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16 10230 Apr 17 17:39	7° X 52'15 0° Y 24° Y 03'40 29° Y 55'25 29° Y 51'34 27° Y 56'48 21° Y 41'02 21° Y 53'08 15° Y 24'26 13° Y 29'39	2°34'45 2°34'06
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59 10229 Jun 21 04:29	7°\d30'38 7°\d36'24 7°\d6'25 1°\d15'55 30°\kgY 29°\Y00'15 0°\d5'\d0'13 6°\d5'0'06 0°\II 24°\I23'39	2°59'13 0.68417 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16 10230 Apr 17 17:39 10230 Apr 26 17:50	7°\cdot\52'15 0°\cdot\703'40 29°\cdot\55'25 29°\cdot\51'34 27°\cdot\56'48 21°\cdot\33'40 21°\cdot\53'08 15°\cdot\22'26 13°\cdot\22'39 18°\cdot\44'11	2°34'45 2°34'06 0.68619 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59	7°\d30'38 7°\d36'24 7°\d6'25 1°\d15'55 30°\R\T\ 29°\T00'15 0°\d5'\d5'06 0°\II 24°\II23'39 0°\square	2°59'13 0.68417 AU 23°10'06	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16 10230 Apr 17 17:39 10230 Apr 26 17:50 10230 May 02 16:45	7°\cdot\52'15 0°\cdot\703'40 29°\cdot\55'25 29°\cdot\51'34 27°\cdot\56'48 21°\cdot\33'40 21°\cdot\53'08 15°\cdot\22'26 13°\cdot\29'39 18°\cdot\44'11 25°\cdot\33'38	2°34'45 2°34'06 0.68619 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59 10229 Jun 21 04:29	7°\d30'38 7°\d36'24 7°\d6'25 1°\d15'55 30°\R\T\ 29°\T00'15 0°\d5'\d5'06 0°\II 24°\II23'39 0°\square	2°59'13 0.68417 AU 23°10'06 1.39621 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 17 17:39 10230 Apr 17 17:39 10230 Apr 26 17:50 10230 May 02 16:45 10230 May 06 02:26	7°\cdot\52'15 0°\cdot\703'40 29°\cdot\55'25 29°\cdot\51'34 27°\cdot\56'48 21°\cdot\33'40 21°\cdot\53'08 15°\cdot\22'26 13°\cdot\22'39 18°\cdot\44'11	2°34'45 2°34'06 0.68619 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59 10229 Jun 21 04:29 10229 Jun 22 02:05	7°830'38 7°836'24 7°806'25 1°815'55 30°8° 29°900'15 0°8 5°807'13 6°850'06 0°11 24°1123'39 0°9 1°933'00	2°59'13 0.68417 AU 23°10'06 1.39621 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16 10230 Apr 17 17:39 10230 Apr 26 17:50 10230 May 02 16:45	7°\cdot\52'15 0°\cdot\703'40 29°\cdot\755'25 29°\cdot\751'34 27°\cdot\756'48 21°\cdot\733'40 21°\cdot\741'02 21°\cdot\753'08 15°\cdot\724'26 13°\cdot\729'39 18°\cdot\74'11 25°\cdot\733'38 0°\cdot\8	2°34'45 2°34'06 0.68619 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59 10229 Jun 21 04:29 10229 Jun 22 02:05 10229 Jun 29 19:07	7°830'38 7°836'24 7°806'25 1°815'55 30°8° 29°9'00'15 0°8 5°807'13 6°850'06 0°11 24°1123'39 0°9 1°933'00	2°59'13 0.68417 AU 23°10'06 1.39621 AU -1°18'56	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16 10230 Apr 17 17:39 10230 Apr 26 17:50 10230 May 02 16:45 10230 May 06 02:26 10230 May 26 11:31	7°\cdot\52'15 0°\cdot\724'\703'40 29°\cdot\755'25 29°\cdot\751'34 27°\cdot\756'48 21°\cdot\733'40 21°\cdot\741'02 21°\cdot\753'08 15°\cdot\729'39 18°\cdot\74'11 25°\cdot\733'38 0°\cdot\8 0°\II 4°\IO0'14	2°34'45 2°34'06 0.68619 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	10229 Apr 23 14:28 10229 Apr 23 12:49 10229 Apr 23 21:26 10229 Apr 28 17:45 10229 Apr 30 10:42 10229 May 03 21:42 10229 May 07 16:08 10229 May 14 04:39 10229 May 15 19:52 10229 Jun 02 08:09 10229 Jun 17 20:59 10229 Jun 21 04:29 10229 Jun 22 02:05 10229 Jun 29 19:07 10229 Jun 30 00:21	7°830'38 7°836'24 7°806'25 1°815'55 30°8° 29°9'00'15 0°8 5°807'13 6°850'06 0°11 24°1123'39 0°9 1°933'00 15°933'00	2°59'13 0.68417 AU 23°10'06 1.39621 AU -1°18'56	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	10230 Feb 08 21:24 10230 Feb 13 17:21 10230 Feb 28 06:19 10230 Mar 18 22:45 10230 Mar 28 20:40 10230 Mar 29 17:59 10230 Apr 02 15:23 10230 Apr 07 21:23 10230 Apr 07 17:54 10230 Apr 13 03:16 10230 Apr 17 17:39 10230 Apr 26 17:50 10230 May 02 16:45 10230 May 06 02:26 10230 May 26 11:31 10230 May 29 00:16	7°\cdot\52'15 0°\cdot\724'\703'40 29°\cdot\755'25 29°\cdot\751'34 27°\cdot\756'48 21°\cdot\733'40 21°\cdot\741'02 21°\cdot\753'08 15°\cdot\729'39 18°\cdot\74'11 25°\cdot\733'38 0°\cdot\8 0°\II 4°\IO0'14	2°34'45 2°34'06 0.68619 AU 21°42'56

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superior conj	10230 Jun 11 17:48	26° Ⅱ 53'27		superior conj	10231 May 23 17:05	7° Ⅱ 25'00	
minimum elong	10230 Jun 12 00:10	27° Ⅲ 21'12	1°47'55	minimum elong	10231 May 23 21:22	7° ∏ 42'47	2°08'16
	10230 Jun 13 12:18	0		evening rise	10231 Jun 05 05:49	28° Ⅱ 48'53	
evening rise	10230 Jun 22 15:31	16° © 31'33			10231 Jun 05 22:06	0 \circ \odot	
asc. node	10230 Jun 25 16:36	22° © 05'44		asc. node	10231 Jun 12 13:36	11° © 28'15	
	10230 Jun 30 03:46	$0^{\circ}\Omega$		evening max el	10231 Jun 22 08:55	25° © 20'18	18°04'50
evening max el	10230 Jul 08 19:54	12° Ω 10′57	18°10'27	retrograde	10231 Jun 28 20:10	28° © 41'23	
retrograde	10230 Jul 15 19:10	15° Ω 42'53		evening set	10231 Jul 01 12:12	28° 5 06'21	
evening set	10230 Jul 18 03:26	15° Ω 19′27		inferior conj	10231 Jul 07 21:54	22° © 59'05	2°18'28
inferior conj	10230 Jul 25 04:55	10° £ 31′32	1°17'47	minimum elong	10231 Jul 08 00:42	22° © 51'55	2°17'18
minimum elong	10230 Jul 25 07:12	10° Ω 26′24	1°16'38	min. Earth dist.	10231 Jul 10 21:35	19° © 56'43	0.61923 AU
min. Earth dist.	10230 Jul 28 12:48	7° Ω 34'36	0.59660 AU	morning rise	10231 Jul 14 10:59	16°954'07	
desc. node	10230 Jul 29 16:03	6° Ω 38'54		desc. node	10231 Jul 16 13:12	15°538'56	
morning rise	10230 Aug 01 07:54	4° Ω 47'44		direct	10231 Jul 21 03:33	14° © 32'11	
direct	10230 Aug 07 18:06	2° Ω 51'48		morning max el	10231 Aug 04 07:52	22°533'59	27°56'58
morning max el	10230 Aug 22 02:24	10° Ω 43'02	27°40'49		10231 Aug 10 21:23	0° Ω	
	10230 Sep 06 02:16	0° m)	_, ., .,		10231 Aug 30 07:10	0°m)	
asc. node	10230 Sep 21 16:43	28° m 10'32		morning set	10231 Sep 07 00:34	14° m) 57'09	
morning set	10230 Sep 22 23:31	0° <u>೧</u> 50'34		asc. node	10231 Sep 07 00:34 10231 Sep 08 13:34	18° Mp 08'17	
morning set	10230 Sep 22 23:51 10230 Sep 22 13:51	0∘ ⊽		max. Earth dist.	10231 Sep 08 13:59 10231 Sep 12 13:59	26° Mp 42'21	1.31913 AU
max. Earth dist.	10230 Sep 22 13:31 10230 Sep 29 07:18	0 = 14° £ 33'08	1.31508 AU	max. Earth dist.	10231 Sep 12 13.39	20 11/4221	1.51913 AU
max. Earm dist.	10230 Sep 29 07.16	14 = 33 08	1.51506 AU	aumorior aoni	10231 Sep 14 11:57	0° £ 53'31	0°56'15
	10220 8 20 02-14	16° ≏ 18'11	1015112	superior conj	•	0 ≗ 33 31 0° Ω 41'47	
superior conj	10230 Sep 30 02:14		1°15'13	minimum elong	10231 Sep 14 09:49		0°55'50
minimum elong	10230 Sep 30 00:01	16° Ω 05'55	1-14-39		10231 Sep 14 02:12	0° ™	
	10230 Oct 06 07:22	0°M		evening rise	10231 Sep 21 06:41	15° £ 44'49	
evening rise	10230 Oct 06 19:40	1°M06'07			10231 Sep 28 06:33	0°M	
	10230 Oct 22 07:57	0° ∡ ¹		desc. node	10231 Oct 12 11:09	22°M05'48	
desc. node	10230 Oct 25 13:57	4° ⋌ ¹47'24		evening max el	10231 Oct 16 14:02	26°M32'00	24°30'37
evening max el	10230 Nov 04 00:31	15° ⋌ '57'21 –	25°58'54		10231 Oct 20 18:13	0° ∡ ¹	
retrograde	10230 Nov 17 22:14	22° ₹ 59'50		retrograde	10231 Oct 30 08:11	3° ≯ 26′06	
evening set	10230 Nov 24 06:15	21° ₹ ¹25′02		evening set	10231 Nov 04 14:11	2° ≯ 24'56	
min. Earth dist.	10230 Nov 28 13:14	18° ∡ ¹49'49	0.58263 AU		10231 Nov 09 09:27	30°RM₊	
inferior conj	10230 Dec 01 15:26	16° ∡ ³36′17	-4°50'45	min. Earth dist.	10231 Nov 10 01:06	29°M36'12	0.56406 AU
minimum elong	10230 Dec 01 23:10	16° ∡ ′22'20	4°48'32	inferior conj	10231 Nov 12 13:20	28°M01'24	
morning rise	10230 Dec 09 18:30	12° ∡ 11'53		minimum elong	10231 Nov 12 17:24	27°M54'59	5°35'40
direct	10230 Dec 11 23:48	11° ∡ 55′52		morning rise	10231 Nov 20 22:48	23°M58'56	
asc. node	10230 Dec 18 16:42	14° ∡ °32′17		direct	10231 Nov 23 11:46	23°M41'33	
morning max el	10230 Dec 20 09:02	16° ₰ 00'34	18°37'55	morning max el	10231 Dec 03 05:32	28°M19'30	19°35'16
	10230 Dec 30 04:39	0°ಕ			10231 Dec 04 20:32	0° ∡ ¹	
morning set	10231 Jan 05 12:02	11° る 51'35		asc. node	10231 Dec 05 13:42	0° ∡ ¹48'56	
				morning set	10231 Dec 20 15:04	26° ≯ 22'26	
superior conj	10231 Jan 14 06:47	28° る 43'25	0°53'55		10231 Dec 22 10:10	ව°0	
minimum elong	10231 Jan 14 09:51	28° る 57'48	0°53'54				
	10231 Jan 14 23:12	0° ≈		superior conj	10231 Dec 28 13:44	12° る 19'19	1°16'37
max. Earth dist.	10231 Jan 21 14:39	11° ≈ 58'41	1.39943 AU	minimum elong	10231 Dec 28 16:38	12° る 33'33	1°16'44
desc. node	10231 Jan 21 12:58	11° ≈ 51'20		max. Earth dist.	10232 Jan 03 20:37	24° る 19'05	1.37740 AU
evening rise	10231 Jan 25 17:00	18° ≈ 59'23			10232 Jan 06 23:52	0° ≈	
-	10231 Feb 01 11:38	0° ∀		evening rise	10232 Jan 07 13:52	1°≈02'05	
	10231 Feb 22 14:15	$0^{\circ}\mathbf{\Upsilon}$		desc. node	10232 Jan 08 09:53	2°≈30'09	
evening max el	10231 Mar 01 13:08	7° Ƴ 50'58	23°57'07		10232 Jan 25 16:56	0° ∀	
retrograde	10231 Mar 12 14:11	14° Ƴ 20'48		evening max el	10232 Feb 12 02:23	21°) 40'21	25°13'47
asc. node	10231 Mar 16 15:11	13° Y ′04′03		retrograde	10232 Feb 24 03:41	28°) 39′22	
evening set	10231 Mar 17 20:49	12° Y ′08'19		evening set	10232 Feb 29 22:27	26°) 15′23	
min. Earth dist.	10231 Mar 22 14:18	6° Ƴ 39'45	0.68388 AU	asc. node	10232 Mar 02 12:22	24°) 44'57	
inferior conj	10231 Mar 23 07:57	5° Ƴ 39'48	2°00'22	min. Earth dist.	10232 Mar 05 08:31	21°) €21'39	0.67741 AU
minimum elong	10231 Mar 23 05:47		1°59'42	inferior conj	10232 Mar 06 13:57	19°) 45′55	1°16'55
	10231 Mar 28 03:33	30° R ₩		minimum elong	10232 Mar 06 12:15	19° ¥ 51′27	1°16'25
morning rise	10231 Mar 28 14:47	29°) 37'13		morning rise	10232 Mar 12 02:25	13°) €51'21	-
direct	10231 Apr 01 15:54	28°) €04'33		direct	10232 Mar 15 15:14	12°) (39'35	
	10231 Apr 06 14:42	0° Υ		morning max el	10232 Mar 22 17:15	16° ₩ 33'51	19°21'12
morning max el	10231 Apr 09 13:36	2° Υ '33'06	20°25'11	morning max or	10232 Apr 02 05:00	0° Υ	21.12
desc. node	10231 Apr 19 13:34	14° Υ '55'27	20 20 11	greatest brilliancy	10232 Apr 02 03:00 10232 Apr 04 12:30	3° Υ 24'01	-0.7m
3000. Houe	10231 Apr 19 13:54 10231 Apr 29 21:58	0° 8		desc. node	10232 Apr 04 12:30 10232 Apr 05 10:22	4° Υ 45'28	V. / 111
morning set	-				-	21° Υ 09'32	
	10231 May 08 04:51	12003751		morning set	10/3/ Ant in 04:33		
max Earth dist	10231 May 08 04:51 10231 May 17 10:56	12° 8 37'51	1 43694 ATT	morning set	10232 Apr 16 04:35		
max. Earth dist.	10231 May 08 04:51 10231 May 17 10:56 10231 May 19 04:26		1.43694 AU	max. Earth dist.	10232 Apr 16 04:33 10232 Apr 21 21:39 10232 Apr 29 00:56	0°8 11°809'55	1.44997 AU

10234 Mar 10 03:57

10234 Mar 19 05:45

desc. node

15°**¥**20'21

 $0^{\circ}\Upsilon$

10233 Mar 26 12:24

 $0^{\circ}\Upsilon$

superior conj	10234 Mar 22 09:29	5° Ƴ 00'32	10221	morning set	10235 Feb 17 23:31	23°≈53'53	
minimum elong	10234 Mar 22 00:41	4° Υ 25'45		morning set	10235 Feb 17 23:51 10235 Feb 21 12:54	25 ≈ 33 33	
max. Earth dist.	10234 Mar 25 15:00		1.45471 AU	desc. node	10235 Feb 25 00:45	5° ¥ 55'12	
max. Lartii tist.	10234 Apr 07 10:26	0°8	1.454/1710	dese. Hode	10233160 23 00.43	3 /(3312	
evening rise	10234 Apr 07 12:33	0°808'09		superior conj	10235 Mar 02 12:48	15° ¥ 02'49	-0°40'15
greatest brilliancy	10234 Apr 20 23:37	20° 8 39'07	-0.7m	minimum elong	10235 Mar 02 08:30	14°) 45'14	
greatest similare	10234 Apr 27 13:51	0°II	0.7111	max. Earth dist.	10235 Mar 08 10:02		1.44613 AU
evening max el	10234 May 02 16:39	6° Ⅱ 04'27	19°36'12	man. Barm dist.	10235 Mar 11 21:00	0°Υ	1.1.015 110
asc. node	10234 May 03 04:53	6° Ⅱ 34'39		evening rise	10235 Mar 18 00:04	9° Υ '30'27	
retrograde	10234 May 09 23:22	10° Ⅱ 12'44		0.00000	10235 Mar 31 15:45	0°8	
evening set	10234 May 13 15:47	8° Ⅲ 53'34		evening max el	10235 Apr 15 18:02	19° 8 47'04	20°38'11
inferior conj	10234 May 19 00:48	2° I 58'18	3°18'21	asc. node	10235 Apr 20 02:05	23° 8 20'45	
minimum elong	10234 May 19 00:33	2° I I59'08	3°17'56	retrograde	10235 Apr 23 22:07	24° 8 32'46	
min. Earth dist.	10234 May 20 05:16	1° Ⅲ 23'58	0.67194 AU	evening set	10235 Apr 27 23:58	22° 8 57'52	
	10234 May 21 07:20	30°R₩	,	inferior conj	10235 May 03 06:55	16° 8 49'40	3°09'38
morning rise	10234 May 24 08:59	26° 8 38'29		minimum elong	10235 May 03 05:41	16° 8 53'54	3°09'11
direct	10234 May 30 09:06	23° 8 59'02		min. Earth dist.	10235 May 03 21:20	16° 8 00'00	0.68106 AU
desc. node	10234 Jun 06 04:22	26° 8 35'48		morning rise	10235 May 08 11:11	10° 8 32'41	
dese. node	10234 Jun 10 06:21	0°II		direct	10235 May 13 22:45	8° 8 06'54	
morning max el	10234 Jun 11 13:57	1° Ⅱ 17'42	25°28'56	desc. node	10235 May 24 01:18	13° 8 47'44	
moning man vi	10234 Jul 03 05:11	0°9	20 2000	morning max el	10235 May 24 23:32	14° 8 42'37	24°01'54
morning set	10234 Jul 17 15:28	24°910'56			10235 Jun 06 10:58	0°П	
morning sec	10234 Jul 20 19:16	0°Ω			10235 Jun 26 02:59	0.ee	
max. Earth dist.	10234 Jul 21 07:22	0°Ω56'50	1.36119 AU	morning set	10235 Jun 29 11:07	5° © 39'02	
				max. Earth dist.	10235 Jul 03 04:57	12°9512'00	1.38313 AU
superior conj	10234 Jul 27 08:51	12° Ω 43'05	-0°27'08				
minimum elong	10234 Jul 27 10:32	12°Ω51'28		superior conj	10235 Jul 10 11:37	25° © 36'12	-1°00'13
asc. node	10234 Jul 30 04:08	18° Ω 22'11	0 27 10	minimum elong	10235 Jul 10 15:36	25°955'08	
evening rise	10234 Aug 04 10:08	29° Ω 06'06		8	10235 Jul 12 18:38	0°N	
8	10234 Aug 04 20:44	0° m)		asc. node	10235 Jul 17 01:03	8° Ω 20'41	
evening max el	10234 Aug 22 00:08	27° m) 57'57	19°56'44	evening rise	10235 Jul 19 10:00	13° Ω 01'10	
V , V & V.	10234 Aug 24 07:17	0∘ ⊽		0 / 4 · · · · · · · · · · · · · · · · · ·	10235 Jul 28 13:53	0° m)	
retrograde	10234 Sep 01 08:09	ვ° ჲ 05'36		evening max el	10235 Aug 04 19:24	9° m) 42'17	18°59'00
desc. node	10234 Sep 02 02:52	3° <u>Ω</u> 03'57		retrograde	10235 Aug 13 12:45	14° m) 02'54	
evening set	10234 Sep 03 05:45	2° £ 55'58		evening set	10235 Aug 15 10:09	13° m 51'26	
	10234 Sep 10 09:58	30°R, M)		desc. node	10235 Aug 20 00:06	12° m/01'12	
inferior conj	10234 Sep 12 05:07	28° m 55'39	-3°03'58	inferior conj	10235 Aug 23 17:45	9° mp 35'28	-1°09'34
minimum elong	10234 Sep 11 20:59	29° m) 07'59	3°01'08	minimum elong	10235 Aug 23 14:45	9° m 40'41	1°08'36
min. Earth dist.	10234 Sep 14 02:38		0.55090 AU	min. Earth dist.	10235 Aug 26 16:31	7° m/32'30	0.56428 AU
morning rise	10234 Sep 20 10:46	24° m/40'57		morning rise	10235 Aug 31 16:12	4° m/ 44'13	
direct	10234 Sep 25 02:01	23° m 54'06		direct	10235 Sep 06 02:37	3° m/34'30	
	10234 Oct 08 02:01	0∘ ⊽		morning max el	10235 Sep 20 07:59	10° m 52'51	26°00'19
morning max el	10234 Oct 08 19:00	0° ჲ 39'08	24°21'26		10235 Oct 04 23:37	0∘ ⊽	
asc. node	10234 Oct 26 04:32	25° ≏ 11'34		asc. node	10235 Oct 13 01:24	14° ≏ 29'15	
	10234 Oct 28 17:08	0°M		morning set	10235 Oct 18 08:51	25° £ 23'06	
morning set	10234 Nov 02 21:48	10°M40'17			10235 Oct 20 12:07	0°M	
morning sec	1025 11(0) 02 21.10	10 110 17			10230 000 20 12.07	0 110	
superior conj	10234 Nov 09 18:21	25°M36'10	1°39'40	superior conj	10235 Oct 25 05:03	10°M23'36	1°34'33
minimum elong	10234 Nov 09 17:55	25°M33'50	1°40'02	minimum elong	10235 Oct 25 03:40	10°M15'53	1°34'43
Č	10234 Nov 11 18:57	0° ∡ ¹		max. Earth dist.	10235 Oct 26 03:37	12° M 28'27	1.31836 AU
max. Earth dist.	10234 Nov 11 21:21	0° ∡ 12'52	1.32667 AU	evening rise	10235 Nov 01 04:48	25°M32'38	
evening rise	10234 Nov 17 03:49	11° ∡ 16′07		Č	10235 Nov 03 08:44	0° ∡ ¹	
Č	10234 Nov 27 02:38	ರ°0		desc. node	10235 Nov 15 22:04	22° ∡ ¹48'05	
desc. node	10234 Nov 29 00:56	3°₹17'08			10235 Nov 20 15:36	0°₹	
	10234 Dec 18 09:25	0° ≈		evening max el	10235 Dec 03 01:37	14° පි 59'11	27°21'09
evening max el	10234 Dec 20 17:22	2° ≈ 20'11	27°29'52	retrograde	10235 Dec 16 22:24	22° る 13'59	
retrograde	10235 Jan 03 10:12	9° ≈ 40'31		evening set	10235 Dec 23 22:57	19° る 58'02	
evening set	10235 Jan 10 09:38	7° ≈ 11'05		min. Earth dist.	10235 Dec 27 16:01	17° る 08'22	0.61559 AU
min. Earth dist.	10235 Jan 14 04:00		0.63551 AU	inferior conj	10235 Dec 30 16:57	14° る 25'09	
inferior conj	10235 Jan 16 19:58	1°≈14'45		minimum elong	10235 Dec 30 22:56	14° る 11'43	
minimum elong	10235 Jan 16 23:22	1° ≈ 06'08		morning rise	10236 Jan 07 01:26	9° ප 26'37	
3	10235 Jan 18 01:55	30°R₹		direct	10236 Jan 09 06:04	9° ට 06'08	
asc. node	10235 Jan 22 03:56	26° පි 40'41		asc. node	10236 Jan 09 01:04	9° ට 06'19	
morning rise	10235 Jan 23 15:07	25° る 57'34		morning max el	10236 Jan 16 05:25		17°51'51
direct	10235 Jan 26 00:32	25° る 29'42		<i>2</i>	10236 Jan 27 22:41	0° ≈	
morning max el	10235 Feb 01 13:02	28° ප 51'33	17°47'52	morning set	10236 Jan 31 21:54	7° ≈ 07'21	
<i>5</i>	10235 Feb 02 15:10	0° ≈		<i>5</i>		= *	
	=						

superior conj	10236 Feb 11 17:04	26° ≈ 16'17	0°01'26		10237 Jan 02 04:14	0°₹	
minimum elong	10236 Feb 11 17:13	26°≈16'56	0°01'42	morning set	10237 Jan 14 10:48	21°る00'39	
behind sun begin	10236 Feb 11 08:47	25°≈40'42	0 01 12	morning sec	10237 Jan 19 05:01	0° ≈	
behind sun end	10236 Feb 12 01:38	26°≈53'05			10257 0411 19 00:01	0	
desc. node	10236 Feb 11 21:34	26° ≈ 35'41		superior conj	10237 Jan 23 20:41	8° ≈ 35'15	0°37'02
	10236 Feb 13 21:33	0°)		minimum elong	10237 Jan 23 23:15	8° ≈ 46'55	0°37'01
max. Earth dist.	10236 Feb 19 01:05	8°) 33'16	1.43123 AU	desc. node	10237 Jan 28 18:26	17° ≈ 18'14	
evening rise	10236 Feb 25 17:45	19° ¥ 15′27		max. Earth dist.	10237 Jan 31 11:02	21° ≈ 55'45	1.41178 AU
C	10236 Mar 03 17:31	0° Υ		evening rise	10237 Feb 05 05:03	29° ≈ 49'47	
	10236 Mar 25 09:02	0° ႘		Č	10237 Feb 05 07:33	0°) €	
evening max el	10236 Mar 28 13:55	3° 8 30'12	21°51'23		10237 Feb 25 05:33	0° Υ	
asc. node	10236 Apr 05 23:17	8° 8 54'44		evening max el	10237 Mar 11 05:44	17° Ƴ 15'41	23°10'58
retrograde	10236 Apr 06 20:06	8° 8 58'26		retrograde	10237 Mar 21 15:40	23° Y 25'05	
evening set	10236 Apr 11 08:19	7° 8 08'14		asc. node	10237 Mar 23 20:29	23° Y ′01'41	
inferior conj	10236 Apr 16 15:27	0° 8 49'28	2°50'18	evening set	10237 Mar 26 15:15	21° Y 20'30	
minimum elong	10236 Apr 16 13:33	0° 8 56'06	2°49'44	min. Earth dist.	10237 Mar 31 13:43	15° Y '31'30	0.68569 AU
min. Earth dist.	10236 Apr 16 16:54	0° 8 44'23	0.68558 AU	inferior conj	10237 Apr 01 00:27	14° Ƴ 54'24	2°21'18
	10236 Apr 17 05:39	30° ₹ Υ		minimum elong	10237 Mar 31 22:16	15° Ƴ 01'58	2°20'38
morning rise	10236 Apr 21 18:36	24° Y 36'54		morning rise	10237 Apr 06 05:11	8° Y 47'34	
direct	10236 Apr 26 16:40	22° Y ′30′03		direct	10237 Apr 10 13:47	7° Y ′02'12	
morning max el	10236 May 06 10:30	28° Ƴ 14'50	22°32'13	morning max el	10237 Apr 19 02:08	11° Y 56'31	21°08'17
	10236 May 08 02:37	0°B		desc. node	10237 Apr 26 19:03	21° Y ′04'24	
desc. node	10236 May 09 22:12	2° 8 03'02			10237 May 03 06:05	0° 8	
	10236 May 30 02:53	Π $^{\circ}0$		morning set	10237 May 19 22:22	25° 8 06'18	
morning set	10236 Jun 09 05:58	15° Ⅱ 58'27			10237 May 23 00:37	Π°	
max. Earth dist.	10236 Jun 14 02:42	24° Ⅱ 04'07	1.40587 AU	max. Earth dist.	10237 May 27 05:55	6° Ⅱ 48'34	1.42678 AU
	10236 Jun 17 13:33	0 \circ \mathfrak{s}					
				superior conj	10237 Jun 03 11:00	18° Ⅱ 50′29	-1°58'04
superior conj	10236 Jun 21 21:52	7° 5 42'04	-1°32'02	minimum elong	10237 Jun 03 17:00	19° Ⅱ 16′05	1°58'04
minimum elong	10236 Jun 22 03:49	8° © 08'54	1°31'45		10237 Jun 09 21:02	0 \circ \odot	
evening rise	10236 Jul 02 00:14	26° © 26'51		evening rise	10237 Jun 15 00:39	9° © 12'16	
asc. node	10236 Jul 02 22:01	28° © 09'26		asc. node	10237 Jun 19 19:00	17° © 43'09	
	10236 Jul 03 21:34	0 $^{\circ}\Omega$			10237 Jun 27 07:53	0 $^{\circ}$ Ω	
evening max el	10236 Jul 18 00:43	22° N 08'03	18°22'24	evening max el	10237 Jul 01 12:05	5° Ω 04'45	18°05'46
retrograde	10236 Jul 25 12:12	25° Ω 53′28		retrograde	10237 Jul 08 04:54	8° £ 30′01	
evening set	10236 Jul 27 15:53	25° Ω 35'35		evening set	10237 Jul 10 16:29	8° Ω 02'00	
inferior conj	10236 Aug 04 04:02	20° Ω 59'45	0°31'02	inferior conj	10237 Jul 17 10:49	3° Ω 06′01	1°46'37
minimum elong	10236 Aug 04 05:06	20° Ω 57'33	0°30'19	minimum elong	10237 Jul 17 13:32	2° Ω 59'34	1°45'22
desc. node	10236 Aug 05 21:18	19° Ω 34'52		min. Earth dist.	10237 Jul 20 16:18	0° Ω 03'40	0.60629 AU
min. Earth dist.	10236 Aug 07 12:37	18° Ω 16′08	0.58381 AU		10237 Jul 20 17:56	30° ₹ ∽	
morning rise	10236 Aug 11 14:49	15° Ω 32′28		desc. node	10237 Jul 23 18:28	27° 5 34'14	
direct	10236 Aug 17 17:56	13° Ω 53′26		morning rise	10237 Jul 24 07:49	27° © 11'56	
morning max el	10236 Sep 01 03:01	21° Ω 36′08	27°14'06	direct	10237 Jul 30 21:48	25° © 03'45	
	10236 Sep 08 11:32	0° ™			10237 Aug 10 21:14	0 $^{\circ}\Omega$	
	10236 Sep 26 20:39	0∘ ⊽		morning max el	10237 Aug 14 04:49	3° Ω 01′01	27°52'20
asc. node	10236 Sep 28 22:15	4° ≏ 07'31			10237 Sep 03 00:43	0° m)	
morning set	10236 Oct 01 17:31	9° ≏ 56'28		morning set	10237 Sep 15 21:54	24° m 14'06	
		_		asc. node	10237 Sep 15 19:04	23° m 59'25	
superior conj	10236 Oct 08 16:51	25° Ω 11'23	1°23'50		10237 Sep 18 15:22	0∘ 亚	
minimum elong	10236 Oct 08 14:49	25° Ω 00'05	1°23'44	max. Earth dist.	10237 Sep 21 21:30	7° £ 05'14	1.31619 AU
max. Earth dist.	10236 Oct 08 12:55	24° Ω 49'30	1.31485 AU		10007.0	00 2 55:15	1005115
	10236 Oct 10 20:46	0°M		superior conj	10237 Sep 23 03:51	9° ≏ 52'48	1°07'47
evening rise	10236 Oct 15 11:22	10°M03'03		minimum elong	10237 Sep 23 01:36	9° ≏ 40'24	1°07'28
	10236 Oct 25 15:31	0° ∡ 7		evening rise	10237 Sep 29 21:18	24° ≏ 40'14	
desc. node	10236 Nov 01 19:13	11° х 40'33	2 (02 011 0		10237 Oct 02 09:49	0°M,	
evening max el	10236 Nov 14 03:33	26° ₹ 51'38	26°38'18	desc. node	10237 Oct 19 16:23	29°M38'41	
	10236 Nov 17 20:51	0°る			10237 Oct 19 22:51	0° ⊀ ⁷	25022154
retrograde	10236 Nov 28 01:58	3° そ 59'18		evening max el	10237 Oct 26 21:29	7° x 52'46	25~25'54
evening set	10236 Dec 04 18:59	2°る07'00		retrograde	10237 Nov 09 18:45	14° x 52'11	
min E d V :	10236 Dec 08 01:46	30°₹ ⋌ ¹	0.50447.433	evening set	10237 Nov 15 16:57	13° 🗷 31'48	0.57424 411
min. Earth dist.	10236 Dec 08 17:29	29° 🗷 30'51	0.59447 AU	min. Earth dist.	10237 Nov 20 09:43	10° 🗷 52'51	0.57424 AU
inferior conj	10236 Dec 11 21:52	27° x ⁷ 01'30		inferior conj	10237 Nov 23 07:33	8° 1 54'16	
minimum elong	10236 Dec 12 05:40	26° х 46′13	4°10'29	minimum elong	10237 Nov 23 14:20	8° ₹ 42'42	5~12′28
morning rise	10236 Dec 19 19:01	22°×724'13		morning rise	10237 Dec 01 14:00	4° × ⁷ 39'17	
direct	10236 Dec 21 22:25	22° × ⁷ 07'40		direct	10237 Dec 03 21:38	4° × ⁷ 23'10	
asc. node	10236 Dec 25 22:07	23° × 08'11	10015106	asc. node	10237 Dec 12 19:08	8°×739'18	10050121
morning max el	10236 Dec 29 17:03	25° ₹ 57'47	18°15'06	morning max el	10237 Dec 12 20:01	8° ∡ ¹41'25	18°59'31

morning set	10237 Dec 26 16:02 10237 Dec 29 09:40	0°号 5°号20'27		morning set	10238 Dec 13 15:08 10238 Dec 18 12:50	19° 서 56'57 0°궁	
superior conj	10238 Jan 06 18:59	21° る 46'22	1°04'33	superior conj	10238 Dec 21 07:16	5° る 36'24	1°23'48
minimum elong	10238 Jan 06 22:07	22° る 01'21	1°04'35	minimum elong	10238 Dec 21 09:49	5° ਰ 49'13	1°24'01
Č	10238 Jan 11 04:20	0° ≈		max. Earth dist.	10238 Dec 27 00:22	16° ප් 45'24	1.36838 AU
max. Earth dist.	10238 Jan 13 17:31	4° ≈ 36'52	1.39001 AU	evening rise	10238 Dec 30 18:59	23° ප් 44'41	
desc. node	10238 Jan 15 15:19	7° ≈ 59'18		desc. node	10239 Jan 02 12:13	28° る 34'53	
evening rise	10238 Jan 17 13:55	11° ≈ 21′08			10239 Jan 03 07:47	0° ≈	
	10238 Jan 29 02:39	0° ∀			10239 Jan 22 19:28	0° ∀	
	10238 Feb 20 18:03	0° Υ		evening max el	10239 Feb 04 08:56		25°43'44
evening max el	10238 Feb 21 19:34	1° Y ′04'39	24°30'46	retrograde	10239 Feb 16 18:47	22° ∺ 01'08	
retrograde	10238 Mar 05 07:34	7° Y ′48′02		evening set	10239 Feb 22 18:44	19°) 33′27	
evening set	10238 Mar 10 19:16	5° Υ 30'36		asc. node	10239 Feb 25 14:53	16°) 41'14	0.65041.477
asc. node	10238 Mar 10 17:40	5° Υ 33'59 0° Υ 16'41	0.60156.411	min. Earth dist.	10239 Feb 27 02:05	14°) 54'33	0.67341 AU
min. Earth dist.	10238 Mar 15 09:32 10238 Mar 15 14:32	30° ₹	0.68156 AU	inferior conj	10239 Feb 28 12:28 10239 Feb 28 11:08	13° 米 05'31 13° 米 09'44	0°55'46 0°55'25
inferior conj	10238 Mar 16 08:06	30 KA 29°₩01'12	1°43'06	minimum elong morning rise	10239 Feb 28 11:08 10239 Mar 06 04:03	7° ₩ 14'56	0 33 23
minimum elong	10238 Mar 16 06:04	29°\(\text{1112}\)	1°42'27	direct	10239 Mar 09 12:09	6° ∺ 11'08	
morning rise	10238 Mar 21 17:00	23° ∺ 01'37	1 4227	morning max el	10239 Mar 16 07:55	9° \ 54'13	18°58'51
direct	10238 Mar 25 12:48	21°\(\frac{1}{37}\)'52		greatest brilliancy	10239 Mar 30 00:09	28°) 19'21	-0.8m
morning max el	10238 Apr 02 01:07	25° ¥ 50'18	19°56'08	8	10239 Mar 31 02:34	0°Υ	******
	10238 Apr 05 18:39	0° Υ		desc. node	10239 Mar 31 12:40	0° Υ 38'38	
desc. node	10238 Apr 13 15:53	10° Ƴ 39'29		morning set	10239 Apr 08 03:12	12° Y ′23'34	
	10238 Apr 26 14:28	9° 8			10239 Apr 19 10:37	9° 8	
morning set	10238 Apr 28 22:02	3° 8 33'16		max. Earth dist.	10239 Apr 22 09:21	4° 8 36'58	1.45345 AU
max. Earth dist.	10238 May 09 16:40	20° 8 24'38	1.44326 AU				
				superior conj	10239 Apr 24 15:07	8° 8 08'17	
superior conj	10238 May 14 23:59	28° 8 56'31		minimum elong	10239 Apr 24 09:50	7° 8 47'30	2°07'57
minimum elong	10238 May 15 02:01	29° 8 04'46	2°12'25		10239 May 08 07:13	0°II	
	10238 May 15 15:35	0° Ц 21° Ц 07'12		evening rise	10239 May 09 13:29	2° Ⅱ 02'59 25° Ⅱ 42'04	
evening rise	10238 May 28 06:30 10238 Jun 02 11:27	21° щ 0/12		asc. node	10239 May 24 13:06 10239 May 27 20:33	25°Щ4204 0° ©	
asc. node	10238 Jun 06 16:01	6°\$56'36		evening max el	10239 May 27 20:33 10239 May 29 14:42	1° 9 54'44	18°28'48
evening max el	10238 Jun 15 01:49	18° © 23'16	18°08'08	retrograde	10239 Jun 05 01:41	5° © 24'12	10 20 40
retrograde	10238 Jun 21 10:52	21°9643'37	10 00 00	evening set	10239 Jun 08 04:55	4° © 29'11	
evening set	10238 Jun 24 06:18	21° © 02'52		<i>3</i>	10239 Jun 13 01:39	30°RⅡ	
inferior conj	10238 Jun 30 10:29	15° © 47'59	2°36'56	inferior conj	10239 Jun 13 22:55	28° Ⅱ 57'15	3°05'57
minimum elong	10238 Jun 30 13:05	15° 5 40'59	2°35'54	minimum elong	10239 Jun 14 00:32	28° Ⅱ 52'25	3°05'16
min. Earth dist.	10238 Jul 03 04:55	12° © 50'12	0.62861 AU	min. Earth dist.	10239 Jun 16 02:54	26° Ⅲ 22'49	0.64847 AU
morning rise	10238 Jul 06 18:07	9° 5 37'32		morning rise	10239 Jun 19 19:11	22° Ⅱ 38'43	
desc. node	10238 Jul 10 15:36	7° © 33'05		direct	10239 Jun 26 09:24	19° Ⅱ 56′15	
direct	10238 Jul 13 11:31	7° 5 07'01		desc. node	10239 Jun 27 12:41	20° Ⅱ 00'37	
morning max el	10238 Jul 27 12:06	15° © 09'23	27°52'08	morning max el	10239 Jul 09 22:27	27° Ⅱ 53′20	27°16'57
	10238 Aug 08 14:21	0° N			10239 Jul 11 22:36	0°©	
	10238 Aug 26 15:57	0° m			10239 Aug 02 08:20	0°N	
morning set	10238 Aug 30 19:55	8° TD 10'36		morning set	10239 Aug 14 08:56	21° Ω 38'59	
asc. node max. Earth dist.	10238 Sep 02 15:54 10238 Sep 05 01:40	14° Mp 00'11 19° Mp 06'03	1.32247 AU	max. Earth dist.	10239 Aug 18 13:16 10239 Aug 18 21:49	0° т у 0° т у43'49	1.33373 AU
superior conj	10238 Sep 07 12:13	24° m) 22'28	0°46'43	asc. node	10239 Aug 10 21:49 10239 Aug 20 12:46	4° Mp 05'23	1.55575 AU
minimum elong	10238 Sep 07 12:13 10238 Sep 07 10:17	24 m/22 28 24°m/11'54	0°46'16	superior conj	10239 Aug 22 15:55	8° mp 34'31	0°21'01
minimum clong	10238 Sep 10 01:57	0° <u>ت</u>	0 40 10	minimum elong	10239 Aug 22 14:53	8° Mg 29'01	0°20'36
evening rise	10238 Sep 14 08:44	9° ≏ 18'52		evening rise	10239 Aug 29 19:47	23° m/53'21	
	10238 Sep 24 22:16	0° M			10239 Sep 01 18:10	0∘ ⊽	
desc. node	10238 Oct 06 13:35	16°M21'54		evening max el	10239 Sep 19 21:25	28° ≏ 21'30	22°08'28
evening max el	10238 Oct 08 09:03	18°M12'46	23°48'21		10239 Sep 21 16:26	0° M	
retrograde	10238 Oct 21 22:52	24°M59'39		desc. node	10239 Sep 23 10:49	1°ML23'14	
evening set	10238 Oct 26 14:26	24°M12'31		retrograde	10239 Oct 02 15:37	4°M42'40	
min. Earth dist.	10238 Nov 01 19:25		0.55771 AU	evening set	10239 Oct 05 19:43	4° M ₊20'18	
inferior conj	10238 Nov 03 20:51	19° M 58'16	-5°43'55	min. Earth dist.	10239 Oct 14 02:43		0.54784 AU
minimum elong	10238 Nov 03 21:52	19°M56'44	5°43'34	inferior conj	10239 Oct 14 18:00	0° M 20′27	
morning rise	10238 Nov 12 07:14	16°ML02'55		minimum elong	10239 Oct 14 11:02	0°M30'14	5°21'32
direct	10238 Nov 15 01:38	15°M43'40	20006126		10239 Oct 15 08:35	30°R Ω	
morning max el	10238 Nov 25 10:52	20°M38'33	20°06'36	morning rise	10239 Oct 23 03:53	26° ♀ 33'24	
asc. node	10238 Nov 29 16:08	25°M25'06 0° ⋌ ¹		direct	10239 Oct 26 13:47	26° ♀ 07'34 0° ጤ	
	10238 Dec 02 20:43	υ χ .			10239 Nov 05 11:08	U IIIG	

morning max el	10239 Nov 07 12:18	1° M 45'41	21°35'29	inferior conj	10240 Sep 23 10:21	10° ≏ 24'49	
asc. node	10239 Nov 16 13:07	13° ™ 09'51		minimum elong	10240 Sep 23 00:34	10° ≏ 38'53	4°02'52
	10239 Nov 25 17:52	0° ∡ 7		min. Earth dist.	10240 Sep 24 11:13	9° ≙ 49'03	0.54697 AU
morning set	10239 Nov 28 00:41	4° ∡ ′43′01		morning rise	10240 Oct 01 18:03	6° ≏ 25'29	
				direct	10240 Oct 05 21:55	5° ≙ 48'20	
superior conj	10239 Dec 05 05:34	19° ∡ 54′21	1°35'20	morning max el	10240 Oct 19 03:16	12° ≏ 11'11	23°19'40
minimum elong	10239 Dec 05 07:01	20° ∡ 01'58	1°35'43		10240 Nov 01 11:17	0° M ₊	
max. Earth dist.	10239 Dec 09 12:04	28° ∡ ³39'28	1.34907 AU	asc. node	10240 Nov 02 10:03	1° M ₊38'55	
	10239 Dec 10 04:12	0°₹		morning set	10240 Nov 11 12:11	19° M ₊31'32	
evening rise	10239 Dec 13 16:55	6° る 52'15			10240 Nov 16 08:45	0° ∡	
desc. node	10239 Dec 20 09:13	19° る 00'54					
	10239 Dec 27 00:23	0° ≈		superior conj	10240 Nov 18 10:36	4° ₹ 29'34	1°39'56
evening max el	10240 Jan 17 22:20	28° ≈ 38′01	26°42'35	minimum elong	10240 Nov 18 10:51	4° ₮ 30'50	1°40'20
	10240 Jan 19 09:30	0° ∀		max. Earth dist.	10240 Nov 21 07:20	10° ∡ ³35'56	1.33355 AU
retrograde	10240 Jan 31 00:40	5°) 58′00		evening rise	10240 Nov 26 03:54	20° ∡ ³33'16	
evening set	10240 Feb 06 11:54	3°) 24'17			10240 Dec 01 02:04	0°₹	
	10240 Feb 09 23:08	30° Ŗ ≈		desc. node	10240 Dec 06 06:15	9° ට 11'11	
min. Earth dist.	10240 Feb 10 13:14	29° ≈ 19'44	0.66143 AU		10240 Dec 19 23:31	0° ≈	
inferior conj	10240 Feb 12 11:29	27° ≈ 03′24	-0°00'30	evening max el	10240 Dec 30 11:15	12° ≈ 06'35	27°20'19
minimum elong	10240 Feb 12 11:29	27° ≈ 03'23	0°00'13	retrograde	10241 Jan 13 00:32	19° ≈ 29'34	
transit middle	10240 Feb 12 11:29	27° ≈ 03'23	0°00'13	evening set	10241 Jan 19 20:31	16° ≈ 56'17	
transit begin	10240 Feb 12 08:33	27°≈12'04		min. Earth dist.	10241 Jan 23 16:55	13° ≈ 24'18	0.64586 AU
transit end	10240 Feb 12 14:25	26° ≈ 54'44		inferior conj	10241 Jan 26 02:44	10° ≈ 48'46	-1°05'14
asc. node	10240 Feb 12 12:05	27° ≈ 01'37		minimum elong	10241 Jan 26 04:44	10° ≈ 43'23	1°04'01
morning rise	10240 Feb 18 12:10	21° ≈ 23'48		asc. node	10241 Jan 29 09:17	7° ≈ 32'08	
direct	10240 Feb 21 09:56	20° ≈ 36'59		morning rise	10241 Feb 01 14:40	5° ≈ 22'37	
morning max el	10240 Feb 27 21:03	24° ≈ 03'25	18°17'50	direct	10241 Feb 04 03:53	4° ≈ 49'02	
8	10240 Mar 03 19:54	0° ∀		morning max el	10241 Feb 10 13:52	8° ≈ 09'58	17°53'45
desc. node	10240 Mar 17 09:28	20°) 55'31			10241 Feb 25 10:10	0° ∀	.,
morning set	10240 Mar 18 09:06	22°) 30'07		morning set	10241 Feb 27 20:10	4° ¥ 02'36	
morning sec	10240 Mar 23 01:46	0°Υ		desc. node	10241 Mar 04 06:16	11°) 24'40	
	102 10 10141 25 01:10	V 1		desc. Hode	10211 11111 01 00.10	11 /(2110	
superior conj	10240 Apr 02 21:01	17° Y ′02'25	-1°43'37	superior conj	10241 Mar 13 12:21	26° ¥ 28'56	-1°05'02
minimum elong	10240 Apr 02 11:30	16° Y °25′10	1°42'51	minimum elong	10241 Mar 13 05:12	26° ¥ 00'19	
max. Earth dist.	10240 Apr 04 04:42	19° Υ ′06'21	1.45637 AU	minimum ciong	10241 Mar 15 03:12	0°Υ	1 0101
man. Darun dige.	10240 Apr 11 04:06	0°8	1.10037110	max. Earth dist.	10241 Mar 17 23:57	3° Υ 36'02	1.45184 AU
evening rise	10240 Apr 18 20:58	12° 8 02'27		evening rise	10241 Mar 29 11:43	21° Υ 26'54	1.10101110
greatest brilliancy	10240 Apr 29 17:06	28° 8 54'35	-0.8m	evening rise	10241 Apr 04 02:06	0°8	
greatest stimule)	10240 Apr 30 10:16	0°П	0.0111	greatest brilliancy	10241 Apr 13 09:15	13° 8 53'47	-0.6m
asc. node	10240 May 10 10:14	13° I I50'33		evening max el	10241 Apr 25 04:50	29° 8 14'28	
evening max el	10240 May 12 00:15	15° Ⅲ 33'00	19°06'56	evening man er	10241 Apr 25 23:25	0°II	20 01 02
retrograde	10240 May 18 21:45	19° Ⅲ 24'19	-, -, -, -, -, -, -, -, -, -, -, -, -, -	asc. node	10241 Apr 27 07:23	1° Ⅱ 10'33	
evening set	10240 May 22 09:05	18° Ⅱ 14'12		retrograde	10241 May 02 20:08	3° Ⅱ 38'08	
inferior conj	10240 May 27 20:29		3°17'53	evening set	10241 May 06 16:21	2° Ⅱ 12'28	
minimum elong	10240 May 27 20:54	12° Ⅱ 25'34		evening sec	10241 May 09 00:17	30°R₩	
min. Earth dist.	10240 May 29 09:24	10° ∏ 28'22	0.66456 AU	inferior conj	10241 May 12 00:11	26° 8 11'32	3°16'02
morning rise	10240 Jun 02 08:11	6° П 06'13	0.00430710	minimum elong	10241 May 12 00:11 10241 May 11 23:29	26° 8 13'53	
direct	10240 Jun 08 14:22	3° ∏ 22'42		min. Earth dist.	10241 May 12 22:37	24° 8 55'40	
desc. node	10240 Jun 13 09:45	4° ∏ 41'24		morning rise	10241 May 17 06:18	19° 8 52'26	0.07029710
morning max el	10240 Jun 21 09:13	11° Ⅱ 00'41	26°14'02	direct	10241 May 23 01:17	17° 8 17'43	
morning max or	10240 Jul 06 11:30	0.20 11 2 00 11	20 1102	desc. node	10241 May 31 06:45	21° 8 06'04	
	10240 Jul 24 22:37	$0 {\circ} {\mathfrak O}$		morning max el	10241 Jun 03 18:58	24° 8 20'26	24°52'52
morning set	10240 Jul 27 09:30	4° Ω 30'13		morning max ci	10241 Jun 08 20:41	0°Ⅱ	24 3232
max. Earth dist.	10240 Jul 31 07:23	11° Ω 57'13	1.34986 AU		10241 Jun 29 21:44	0ංම 0 ප	
max. Earm dist.	10240 Jul 31 07.23	11 063/13	1.54980 AU	morning set	10241 Jul	16°932'48	
superior conj	10240 Aug 05 12:27	22° Ω 22'10	-0°08'41	max. Earth dist.	10241 Jul 13 07:28	23°901'50	1.37014 AU
minimum elong	10240 Aug 05 12:58	$22^{\circ}\Omega 24'48$		max. Earm uist.	10241 Jul 17 00:48	23 3 01 30 0° Ω	1.5/01 4 AU
behind sun begin	10240 Aug 05 12.38 10240 Aug 05 07:56	22 δ (24 48 21° Ω 59'07	0 00 24		10271 Jul 1/ UU.40	0 06	
behind sun begin	10240 Aug 05 07:56 10240 Aug 05 17:59	21° λ (3907 22° Ω 50'31		superior conj	10241 Jul 19 22:48	5° Ω 38'06	-0°41'05
asc. node	-			minimum elong		5° Ω 50'59	
asc. node	10240 Aug 06 09:38	24° Ω 10'54		asc. node	10241 Jul 20 01:26	$14^{\circ}\Omega 13'12$	0 41 00
ovenina rica	10240 Aug 09 04:57	0°M) 0°M,17'2°			10241 Jul 24 06:32		
evening rise	10240 Aug 13 04:24	8° ™ 17'38 0° <u>₽</u>		evening rise	10241 Jul 28 08:16	22° Ω 25'30 0° m	
avanina may al	10240 Aug 24 19:44		20020120	avanina may al	10241 Aug 01 04:11		19°29'40
evening max el desc. node	10240 Aug 31 19:38	8° Ω 54'54	20 3730	evening max el	10241 Aug 14 07:41	20° Mp 13'24	17 47 40
	10240 Sep 09 08:05 10240 Sep 12 03:37	14° £ 11'51 14° £ 32'11		retrograde	10241 Aug 23 22:37	24° Mp 59'45	
retrograde	•	14° 2 32'11 14° 2 21'03		evening set	10241 Aug 25 18:47	24° Mp 50'03	
evening set	10240 Sep 14 06:52	14 == 21 03		desc. node	10241 Aug 27 05:19	24° m 29'41	

: <i>c</i> :	10241 9 02 12-29	200 m 44120	2015117	::	10242 4 15 10:01	10 m , 41120	0024114
inferior conj minimum elong	10241 Sep 03 12:28	20° Mp 44'30	2°13'17 2°13'06	inferior conj	10242 Aug 15 10:01 10242 Aug 15 09:02	1° Mp 41'39 1° Mp 43'29	0°24'14
minimum elong min. Earth dist.	10241 Sep 03 06:25	20° m 54'12 19° m 11'23	0.55563 AU	minimum elong	· ·	1°11µ43°29 30°RΩ	0°24'06
morning rise	10241 Sep 05 22:48 10241 Sep 11 15:37	16° Mp 14'48	0.55505 AU	min. Earth dist.	10242 Aug 17 16:24 10242 Aug 18 14:51		0.57205 AU
direct	10241 Sep 11 13.37	15° Mp 18'57		morning rise	10242 Aug 18 14.31 10242 Aug 23 04:00	26° Ω 34'45	0.57205 AU
morning max el	10241 Sep 10 13.14 10241 Sep 30 14:44	22° m) 19'55	25°05'23	direct	10242 Aug 28 22:21	25° Ω 12'55	
morning max ci	10241 Scp 30 14:44 10241 Oct 07 09:42	0° ⊽	23 03 23	uncet	10242 Aug 28 22:21 10242 Sep 09 04:22	0° m)	
asc. node	10241 Oct 07 09:42 10241 Oct 20 06:57	0 = 20° £ 41'27		morning max el	10242 Sep 12 05:39	2° Mp 42'05	26°35'30
asc. node	10241 Oct 24 23:02	0°M		morning max cr	10242 Oct 01 19:11	2°11√42°03 0° Ω	20 33 30
morning set	10241 Oct 24 23:53	4° ጤ 17'37		asc. node	10242 Oct 07 03:47	0 — 10° Ω 08'20	
morning set	10241 Oct 20 25.55	4 1101737		morning set	10242 Oct 07 03:47	18° ⊆ 56'35	
superior conj	10241 Nov 02 19:52	19° M .14'25	1°38'12	morning sec	10242 Oct 16 11:39	0°M	
minimum elong	10241 Nov 02 19:00	19°M09'39	1°38'30		10212 000 10 11.59	O IIV	
max. Earth dist.	10241 Nov 04 10:15	22°M44'41	1.32259 AU	superior conj	10242 Oct 18 07:16	4°M02'21	1°30'40
man zam ust.	10241 Nov 07 19:08	0° √	1.02207 110	minimum elong	10242 Oct 18 05:33	3°M52'51	1°30'44
evening rise	10241 Nov 10 00:37	4° × 739'14		max. Earth dist.	10242 Oct 18 18:19	5°M03'47	1.31634 AU
desc. node	10241 Nov 23 03:19	28° × 58'49		evening rise	10242 Oct 25 04:16	19°M02'28	1.51051110
acse. noue	10241 Nov 23 18:15	0°ਰ		o ronning rise	10242 Oct 30 14:03	0°×7	
evening max el	10241 Dec 12 22:06	25° る 08'07	27°30'11	desc. node	10242 Nov 10 00:27	18° х 14'49	
evening man er	10241 Dec 19 02:48	0° ≈	2, 3011	dese. node	10242 Nov 18 08:57	0°ਰ	
retrograde	10241 Dec 26 17:21	2°≈26'38		evening max el	10242 Nov 25 04:16	7° る 29'30	27°07'09
evening set	10242 Jan 02 17:52	0°≈01'59		retrograde	10242 Dec 09 01:50	14° る 40'25	27 07 02
evening sec	10242 Jan 02 19:01	30°Rる		evening set	10242 Dec 16 00:24	12°る33'42	
min. Earth dist.	10242 Jan 06 11:14	• -	0.62729 AU	min. Earth dist.	10242 Dec 19 18:52		0.60669 AU
inferior conj	10242 Jan 09 07:21	24° る 14'38		inferior conj	10242 Dec 22 22:00	7° る 12'18	
minimum elong	10242 Jan 09 11:51	24° る 03'46		minimum elong	10242 Dec 23 04:56	6° る 57'33	
morning rise	10242 Jan 16 08:07	19° る 04'47	2 1.09	morning rise	10242 Dec 30 12:02	2° る 22'09	3 20 .,
asc. node	10242 Jan 16 06:26	19° る 06'17		direct	10243 Jan 01 15:43	2° る 03'39	
direct	10242 Jan 18 15:01	18° る 40'34		asc. node	10243 Jan 03 03:32	2°る12'52	
morning max el	10242 Jan 25 07:19	22° る 05'40	17°47'11	morning max el	10243 Jan 08 22:05	5° る 41'48	17°59'13
morning man er	10242 Jan 31 10:03	0°≈	1, 1, 11	morning man vi	10243 Jan 24 08:54	0°≈	17 65 15
morning set	10242 Feb 10 07:35	16° ≈ 45'12		morning set	10243 Jan 24 12:52	0° ≈ 18'17	
	10242 Feb 17 22:27	0° ∀					
desc. node	10242 Feb 19 03:03	2° ₩ 01'52		superior conj	10243 Feb 03 16:42	18° ≈ 43'20	0°17'28
acse. noue	102.2100 19 03.03	2 /(0102		minimum elong	10243 Feb 03 18:09	18° ≈ 49'41	0°17'34
superior conj	10242 Feb 22 01:59	7° ¥ 00′21	-0°22'03	desc. node	10243 Feb 05 23:52	22°≈43'41	
minimum elong	10242 Feb 21 23:46	6° ¥ 51'07	0°21'30		10243 Feb 10 06:37	0°) €	
max. Earth dist.	10242 Feb 28 17:12	17°) 51'58	1.44049 AU	max. Earth dist.	10243 Feb 11 06:39	1° ¥ 40′03	1.42346 AU
	10242 Mar 08 09:59	0° Υ		evening rise	10243 Feb 17 00:22	10°) 58′57	
evening rise	10242 Mar 08 23:58	0° Y 54'03		Ü	10243 Mar 01 11:16	0° Y	
8	10242 Mar 28 17:02	0°8		evening max el	10243 Mar 21 21:53	26° Ƴ 41'38	22°24'48
evening max el	10242 Apr 08 03:49	12° 8 57'01	21°08'22	Č	10243 Mar 25 15:36	0°8	
asc. node	10242 Apr 14 04:34	17° 8 27'25		retrograde	10243 Mar 31 15:36	2° 8 27'12	
retrograde	10242 Apr 16 18:37	18° 8 00'18		asc. node	10243 Apr 01 01:46	2° 8 26'19	
evening set	10242 Apr 21 00:44	16° 8 18'59		evening set	10243 Apr 05 08:39	0° 8 30'38	
inferior conj	10242 Apr 26 07:31	10° 8 06'13	3°02'40		10243 Apr 05 22:28	30° ₹ Υ	
minimum elong	10242 Apr 26 05:58	10° 8 11'37	3°02'10	inferior conj	10243 Apr 10 16:29	24° Y 08'32	2°39'09
min. Earth dist.	10242 Apr 26 16:24	9° 8 35'24	0.68352 AU	minimum elong	10243 Apr 10 14:24	24° Y 15'46	2°38'31
morning rise	10242 May 01 10:58	3° 8 50'58		min. Earth dist.	10243 Apr 10 12:40	24° Y 21'49	0.68624 AU
direct	10242 May 06 16:58	1° 8 32'27		morning rise	10243 Apr 15 20:00	17° Y 58'28	
morning max el	10242 May 17 04:29	7° 8 46'53	23°23'30	direct	10243 Apr 20 12:22	16° Ƴ 00'35	
desc. node	10242 May 18 03:40	8° 8 46'47		morning max el	10243 Apr 29 16:59	21° Y ′22'33	21°55'24
	10242 Jun 03 12:37	Π $^{\circ}0$		desc. node	10243 May 05 00:32	27° Y 23'23	
morning set	10242 Jun 21 02:44	27° Ⅲ 31'57			10243 May 07 02:00	0°8	
	10242 Jun 22 13:44	0 \circ \mathfrak{s}			10243 May 27 18:51	Π $^{\circ}0$	
max. Earth dist.	10242 Jun 25 03:57	4° © 27'52	1.39282 AU	morning set	10243 Jun 01 09:59	7° Ⅱ 19′02	
				max. Earth dist.	10243 Jun 07 04:02	16° Ⅱ 43'01	1.41522 AU
superior conj	10242 Jul 02 19:02	18° © 11'58	-1°14'06				
minimum elong	10242 Jul 02 23:58	18° © 34'52	1°13'48	superior conj	10243 Jun 14 20:48	29° Ⅲ 54′02	-1°44'08
	10242 Jul 09 00:13	$0^{\circ}\Omega$		minimum elong	10243 Jun 15 03:08	0° © 21'55	1°43'55
asc. node	10242 Jul 11 03:26	4° Ω 07'36			10243 Jun 14 22:09	0 \circ \odot	
evening rise	10242 Jul 12 04:24	6° Ω 08'22		evening rise	10243 Jun 25 13:16	19° © 17'45	
-	10242 Jul 26 06:22	0° m/y		asc. node	10243 Jun 28 00:23	23°950'08	
evening max el	10242 Jul 28 07:44	2° m/ 16'11	18°41'00		10243 Jul 01 10:18	$0^{\circ}\Omega$	
retrograde	10242 Aug 05 10:46	6° m 19'38		evening max el	10243 Jul 11 16:01	14° Ω 55'21	18°12'55
evening set	10242 Aug 07 10:39	6° Mp 05′49		retrograde	10243 Jul 18 18:07	18° Ω 30′25	
desc. node	10242 Aug 14 02:33	2° m/39'28		evening set	10243 Jul 21 01:10	18° Ω 08'32	
	_			_			

inferior conj	10243 Jul 28 05:18	13° Ω 23'36	1°06'23	minimum elong	10244 Jul 09 22:37	25° © 38'57	2°09'39
minimum elong	10243 Jul 28 07:21	13° Ω 19′07	1°05'18	min. Earth dist.	10244 Jul 12 21:11	22° © 42'51	0.61588 AU
min. Earth dist.	10243 Jul 31 13:41	10° £ 29′25	0.59321 AU	morning rise	10244 Jul 16 10:53	19° 5 43'27	
desc. node	10243 Jul 31 23:45	10° Ω 08′50		desc. node	10244 Jul 17 20:54	18° © 50'40	
morning rise	10243 Aug 04 10:20	7° Ω 43'42		direct	10244 Jul 23 02:58	17° 5 24'46	
direct	10243 Aug 10 18:50	5° Ω 52'11		morning max el	10244 Aug 06 08:16	25°526'05	27°57'02
morning max el	10243 Aug 25 03:35	13° Ω 41'26	27°35'12	Ü	10244 Aug 10 13:08	$0^{\circ}\Omega$	
. 8	10243 Sep 07 04:13	0° m)			10244 Aug 30 16:00	0° m)	
asc. node	10243 Sep 24 00:36	29° m 52'41		morning set	10244 Sep 08 19:12	17° m) 33'11	
	10243 Sep 24 02:02	0∘ ಹ		asc. node	10244 Sep 09 21:25	19° m 48'52	
morning set	10243 Sep 25 17:12	ა — 3° ჲ 23'32		max. Earth dist.	10244 Sep 14 11:13	29° m/35'26	1.31817 AU
max. Earth dist.	10243 Oct 02 03:57	17° ≏ 24'28	1.31483 AU	max. Earth dist.	10244 Sep 14 15:44	0ಂ ⊽	1.51017 110
max. Earth dist.	10213 000 02 03.57	17 —2120	1.51 105 710		10211 бер 11 13.11	٠ –	
superior conj	10243 Oct 02 18:54	18° ≏ 47'31	1°17'30	superior conj	10244 Sep 16 05:02	ვ° ჲ 24'33	0°59'27
minimum elong	10243 Oct 02 16:44	18° - 35'25		minimum elong	10244 Sep 16 02:51	3° ⊆ 12'32	0°59'04
minimum clong	10243 Oct 07 20:30	0°M	1 1/20	evening rise	10244 Sep 22 23:18	18° ⊆ 14'26	0 37 04
evening rise	10243 Oct 07 20:30 10243 Oct 09 12:29	3°M36'08		evening rise	10244 Sep 28 16:08	0°M	
evening rise	10243 Oct 09 12.29 10243 Oct 23 10:52	0° √ 1		JJ.	10244 Sep 28 10:08 10244 Oct 13 18:49		
1 1				desc. node		24°M15'49	24045100
desc. node	10243 Oct 27 21:37	6° ∡ 746'17	26010106	evening max el	10244 Oct 18 17:24	29°M40'28	24°45'00
evening max el	10243 Nov 07 02:55	18° ₹ 59'52	26°10'06		10244 Oct 19 01:40	0° ⊼ ¹	
retrograde	10243 Nov 21 00:48	26° ₹ '03'46		retrograde	10244 Nov 01 12:44	6° ∡ ¹36'27	
evening set	10243 Nov 27 11:38	24° ∡ ¹24'04		evening set	10244 Nov 06 23:16	5° ∡ ³30′17	
min. Earth dist.	10243 Dec 01 15:51	21° х 49'18	0.58564 AU	min. Earth dist.	10244 Nov 12 04:47	2° ҂ ′44'40	0.56654 AU
inferior conj	10243 Dec 04 19:05	19° ∡ °31′03	-4°41'28	inferior conj	10244 Nov 14 20:01	1° ≯ 03'13	-5°31'50
minimum elong	10243 Dec 05 02:57	19° ∡ 16'33	4°39'05	minimum elong	10244 Nov 15 00:58	0° ∡ ¹55'15	5°30'52
morning rise	10243 Dec 12 20:46	15° ₹ 03'24			10244 Nov 16 11:56	30°RML	
direct	10243 Dec 15 01:24	14° ∡ ¹47'21		morning rise	10244 Nov 23 04:55	26°M57'41	
asc. node	10243 Dec 21 00:36	16° ∡ ′54'14		direct	10244 Nov 25 16:11	26° M 40'49	
morning max el	10243 Dec 23 06:31	18° ∡ '47'50	18°31'19		10244 Dec 03 19:47	0° ∡ ¹	
	10243 Dec 31 11:06	0°ರ		morning max el	10244 Dec 05 04:51	1° ∡ 13′26	19°25'16
morning set	10244 Jan 08 06:32	14° る 24'26		asc. node	10244 Dec 06 21:37	2° ∡ ¹59'16	
	10244 Jan 16 10:20	0°≈		morning set	10244 Dec 22 08:35	28° ∡ ¹52'22	
					10244 Dec 22 22:04	0°ප	
superior conj	10244 Jan 17 04:56	1° ≈ 26'35	0°49'43				
minimum elong	10244 Jan 17 07:56	1° ≈ 40′28	0°49'42	superior conj	10244 Dec 30 09:48	14° ⋜ 56'14	1°13'40
desc. node	10244 Jan 23 20:43	13° ≈ 25'54		minimum elong	10244 Dec 30 12:48	15° る 10'49	1°13'47
max. Earth dist.	10244 Jan 24 15:16	14° ≈ 46'31	1.40268 AU	max. Earth dist.	10245 Jan 05 21:01	27° る 10'46	1.38065 AU
evening rise	10244 Jan 28 20:45	21° ≈ 57'19			10245 Jan 07 10:21	0° ≈	
	10244 Feb 02 19:23	0° ∀		evening rise	10245 Jan 09 14:35	3° ≈ 51'50	
	10244 Feb 23 12:17	0° Υ		desc. node	10245 Jan 09 17:37	4° ≈ 05'07	
evening max el	10244 Mar 03 12:33	10° Y 28'14	23°45'08	dese. node	10245 Jan 25 21:23	0° ∀	
retrograde	10244 Mar 14 09:46	16° Υ 53'10	23 13 00	evening max el	10245 Feb 14 01:51	24°) 17'03	25°02'55
asc. node	10244 Mar 17 22:59	15°Υ'53'22		evening max er	10245 Feb 21 11:30	0° Υ	23 02 33
evening set	10244 Mar 19 14:33	14° Υ 42'34		retrograde	10245 Feb 25 23:58	1° Υ 12'38	
min. Earth dist.	10244 Mar 24 09:14	9° Υ '08'44	0.68451 AU	retrograde	10245 Mar 02 02:34	30°R ₩	
inferior conj	10244 Mar 25 01:08	8° Υ 14'26	2°06'13	avanina aat	10245 Mar 03 16:53	28° ¥ 50'17	
minimum elong		8° Υ 21'54	2°05'31	evening set asc. node		28 H 30 17 27° H 46'47	
_	10244 Mar 24 22:57	8 1 21 34 2° Υ 10'45	2 03 31		10245 Mar 04 20:13		0.67960 ATT
morning rise	10244 Mar 30 07:21			min. Earth dist.	10245 Mar 08 04:00	23° ¥ 51'13	0.67860 AU
direct	10244 Apr 03 10:21	0° Υ 34'52	20025155	inferior conj	10245 Mar 09 07:38		1°24'07
morning max el	10244 Apr 11 11:42	5° Y 09'49	20°35'55	minimum elong	10245 Mar 09 05:50		1°23'34
desc. node	10244 Apr 20 21:22	16° Y 40′09		morning rise	10245 Mar 14 19:05	16° ¥ 24'32	
	10244 Apr 30 03:39	0° 8		direct	10245 Mar 18 09:39	15° 米 09'47	
morning set	10244 May 10 17:14	16° 8 03'26		morning max el	10245 Mar 25 14:09	19° 米 08'30	19°29'43
max. Earth dist.	10244 May 19 10:46		1.43448 AU		10245 Apr 03 07:37	0° Υ	
	10244 May 19 12:52	Π °0		greatest brilliancy	10245 Apr 07 07:01	5° Ƴ 44'54	-0.7m
				desc. node	10245 Apr 07 18:11	6° Y 26′09	
superior conj	10244 May 25 23:46	10° Ⅱ 35'18		morning set	10245 Apr 19 16:09	24° Ƴ 31'18	
minimum elong	10244 May 26 04:40	10° Ⅱ 55'44	2°06'03		10245 Apr 23 05:16	$0^{\circ}S$	
	10244 Jun 06 06:58	0 \circ		max. Earth dist.	10245 May 01 23:48	13° 8 42'52	1.44842 AU
evening rise	10244 Jun 07 06:24	1° 5 42'59					
asc. node	10244 Jun 13 21:23	13°915'54		superior conj	10245 May 06 02:37	20° 8 15'26	-2°12'48
evening max el	10244 Jun 24 04:43	28°501'40	18°04'28	minimum elong	10245 May 06 01:41	20° 8 11'41	2°13'08
	10244 Jun 26 13:50	$0^{\circ}\Omega$			10245 May 12 03:17	Π °0	
retrograde	10244 Jun 30 17:09	1° Ω 23'29		evening rise	10245 May 20 02:56	13° Ⅲ 13′02	
evening set							
evening set	10244 Jul 03 07:59	0° Ω 50′24			10245 May 30 06:49	0 \circ \odot	
evening set	10244 Jul 03 07:59 10244 Jul 04 22:15	0° Ω 50′24 30° қ ∽		asc. node	10245 May 30 06:49 10245 May 31 18:27	0°ତ 2°ତ18′23	
inferior conj			2°10'53	asc. node evening max el	•		18°14'46

. 1	10245 1 14 02 20	1.40€40103		1	1024CM 10 15 25	200T 40151	
retrograde	10245 Jun 14 03:20	14°5649'03		asc. node	10246 May 18 15:35	20° Ⅱ 49'51	10042100
evening set	10245 Jun 17 01:59	14°902'33	2051125	evening max el	10246 May 22 06:17	25° I I02'07	18°43'00
inferior conj	10245 Jun 23 01:23	8°940'27	2°51'35	retrograde	10246 May 28 20:41	28° Ⅱ 39'07	
minimum elong	10245 Jun 23 03:38	8° © 34'07	2°50'41	evening set	10246 Jun 01 03:19	27° Ⅱ 37'45	
min. Earth dist.	10245 Jun 25 14:01	5° © 50'16	0.63742 AU	inferior conj	10246 Jun 06 18:08	21° Ⅱ 59'20	3°12'49
morning rise	10245 Jun 29 03:50	2° © 25'30		minimum elong	10246 Jun 06 19:15	21° II 55'54	3°12'16
	10245 Jul 03 23:41	30°RⅡ		min. Earth dist.	10246 Jun 08 15:47	19° Ⅱ 38'54	0.65588 AU
desc. node	10245 Jul 04 18:03	29° Ⅱ 52'16		morning rise	10246 Jun 12 10:26	15° Ⅱ 39'32	
direct	10245 Jul 05 20:38	29° Ⅱ 48'11		direct	10246 Jun 18 21:53	12° Ⅱ 55′03	
	10245 Jul 07 18:58	0 . \odot		desc. node	10246 Jun 21 15:07	13° Ⅱ 20'11	
morning max el	10245 Jul 19 17:11	7° © 50'45	27°41'04	morning max el	10246 Jul 02 03:44	20° Ⅱ 45'33	26°52'55
	10245 Aug 05 18:53	$0^{\circ}\Omega$			10246 Jul 10 02:55	0	
	10245 Aug 22 21:54	0° m			10246 Jul 29 22:13	$0 ^{\circ} \Omega$	
morning set	10245 Aug 23 13:43	1°Mp18′24		morning set	10246 Aug 06 21:52	14° Ω 31'52	
asc. node	10245 Aug 27 18:15	9° ™ 51'42		max. Earth dist.	10246 Aug 11 03:40	22° Ω 51′00	1.34005 AU
max. Earth dist.	10245 Aug 28 12:07	11° m 25'30	1.32655 AU	asc. node	10246 Aug 14 15:07	29° Ω 57'29	
					10246 Aug 14 15:36	0° m)	
superior conj	10245 Aug 31 11:40	17° m 47'08	0°36'22				
minimum elong	10245 Aug 31 10:02	17° Mp 38'20	0°35'54	superior conj	10246 Aug 15 12:39	1° m)49'41	0°08'52
-	10245 Sep 06 02:51	0° ح		minimum elong	10246 Aug 15 12:12	1° m)47'18	0°08'31
evening rise	10245 Sep 07 10:46	2° £ 51'19		behind sun begin	10246 Aug 15 07:19	1° m)21'49	
C	10245 Sep 22 03:14	0°M		behind sun end	10246 Aug 15 17:04	2° m/12'49	
evening max el	10245 Sep 30 04:07	9°M50'39	23°05'30	evening rise	10246 Aug 22 21:01	17° m) 21'56	
desc. node	10245 Sep 30 16:04	10°MJ19'10		Č	10246 Aug 29 03:36	0° ق	
retrograde	10245 Oct 13 11:54	16°M29'05		evening max el	10246 Sep 11 19:53	20° £ 06'03	21°28'37
evening set	10245 Oct 17 11:48	15°M54'18		desc. node	10246 Sep 17 13:19	24° £ 27'18	
min. Earth dist.	10245 Oct 24 13:21	12°M39'33	0.55246 AU	retrograde	10246 Sep 24 00:47	26° £ 09'35	
inferior conj	10245 Oct 26 01:30	11°ML47'15		evening set	10246 Sep 26 16:19	25° ⊆ 53'34	
minimum elong	10245 Oct 25 22:58	11°M50'54		inferior conj	10246 Oct 05 18:45	21° ≏ 57'15	-4°56'09
morning rise	10245 Nov 03 11:57	7°M57'07	3 11 12	minimum elong	10246 Oct 05 09:37	22° ⊆ 10'02	
direct	10245 Nov 06 12:19	7°M35'36		min. Earth dist.	10246 Oct 05 09:37	21° ⊆ 54'25	0.54633 AU
morning max el	10245 Nov 17 13:59	12°M49'01	20°41'58	morning rise	10246 Oct 14 03:48	18° ⊆ 07'34	0.54055 AO
asc. node	10245 Nov 23 18:36	20°M11'32	20 41 36	direct	10246 Oct 17 21:28	17° ⊆ 37'21	
asc. node	10245 Nov 29 18:30	20 lld1132 0° x ⁷		morning max el	10246 Oct 30 10:03	23° £ 34'56	22°18'36
morning set	10245 Dec 06 16:03	0 ✗ 13° ✗ 33'14		morning max ci	10246 Nov 05 02:29	0°M	22 18 30
morning set	10243 DCC 00 10.03	13 🗴 33 14		asc. node	10246 Nov 10 15:31	8°ML16'08	
superior conj	10245 Dec 14 02:47	28° ₹ ′59'05	1°29'35	morning set	10246 Nov 21 02:37	28°M20'23	
minimum elong	10245 Dec 14 02:47		1 29 33	morning set	10240 NOV 21 02.37	20 11620 23	
minimum elong			1920152		10246 Nav. 21 21,20	00.7	
		29° ₰ 09'57	1°29'52		10246 Nov 21 21:28	0° ∡ ¹	
may Earth dist	10245 Dec 14 14:44	0°రె		gymanian aani			1020104
max. Earth dist.	10245 Dec 14 14:44 10245 Dec 19 05:02	0°る 9°る08'44	1°29'52 1.35977 AU	superior conj	10246 Nov 28 04:13	13° ⊀ ¹24'33	1°38'06
evening rise	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19	0°ප 9°ප08'44 16°ප35'20		minimum elong	10246 Nov 28 04:13 10246 Nov 28 05:10	13° ⊀ 24'33 13° ≮ 29'32	1°38'30
	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35	0°පි 9°පි08'44 16°පි35'20 24°පි37'10		minimum elong max. Earth dist.	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55	13° ₹ 24'33 13° ₹ 29'32 21° ₹ 02'14	
evening rise	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05	0°る 9°る08'44 16°る35'20 24°る37'10 0°≈		minimum elong	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49	1°38'30
evening rise desc. node	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55	0° පි 9° පි08'44 16° පි35'20 24° පි37'10 0° ≈ 0° ਮි	1.35977 AU	minimum elong max. Earth dist. evening rise	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹	1°38'30
evening rise desc. node evening max el	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20	0° පි 9° පි08'44 16° පි35'20 24° පි37'10 0° ≈ 0° ਮ 8° ਮ 05'34		minimum elong max. Earth dist.	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03	1°38'30
evening rise desc. node evening max el retrograde	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12	0°♂ 9°♂08'44 16°♂35'20 24°♂37'10 0°≈ 0°升 8°升05'34 15°升19'44	1.35977 AU	minimum elong max. Earth dist. evening rise desc. node	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈	1°38'30 1.34196 AU
evening rise desc. node evening max el retrograde evening set	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57	0°♂ 9°♂08'44 16°♂35'20 24°♂37'10 0°≈ 0°¥ 8°¥05'34 15°¥19'44 12°¥49'06	1.35977 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03	1°38'30
evening rise desc. node evening max el retrograde evening set asc. node	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27	0°♂ 9°♂08'44 16°♂35'20 24°♂37'10 0°≈ 0°¥ 8°¥05'34 15°¥19'44 12°¥49'06 8°¥28'25	1.35977 AU 26°10'57	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38	1°38'30 1.34196 AU
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evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 21 10:04 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 27 05:13 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 08 23:53 10246 Mar 25 14:58	0°る。 9°る08'44 16°る35'20 24°る37'10 0°≈ 0°升 8°升05'34 15°升19'44 12°升49'06 8°升28'25 8°升24'37 6°升23'13 6°升25'49 0°升36'44 30°R≈ 29°≈40'35 0°升 3°升15'25 26°升33'43	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 05 06:53 10247 Feb 106 14:39 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₹	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18
evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 19 18:42 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 27 05:13 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 08 23:53 10246 Mar 25 14:58 10246 Mar 27 19:40	0°♂ 508'44 16°♂ 35'20 24°♂ 37'10 0°≈ 0° ₩ 8° ₩ 05'34 15° ₩ 19'44 12° ₩ 49'06 8° ₩ 28'25 8° ₩ 24'37 6° ₩ 23'13 6° ₩ 25'49 0° ₩ 36'44 30° R≈ 29°≈ 40'35 0° ₩ 3° ₩ 15'25 26° ₩ 33'43 0° ♥	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 05 06:53 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00 10247 Mar 11 01:02	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₹ 14° ₹35'06	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18
evening rise desc. node 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	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 19 18:42 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 27 05:13 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 04 05:59 10246 Mar 25 14:58 10246 Mar 27 19:40 10246 Mar 30 06:25	0°ጜ 9°ጜ08'44 16°ጜ35'20 24°ጜ37'10 0°≈ 0°₭ 8°₭05'34 15°₭19'44 12°₭49'06 8°₭28'25 8°₭24'37 6°₭23'13 6°₭25'49 0°₭36'44 30°₨≈ 29°≈40'35 0°₭ 3°₭15'25 26°₭33'43 0°❤ 3°Ŷ50'23	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 05 06:53 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00 10247 Mar 11 01:02 10247 Mar 12 11:45	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹557'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈24'05 0° ₩ 14° ₩35'06 16° ₩56'25	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18
evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 19 18:42 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 27 05:13 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 08 23:53 10246 Mar 25 14:58 10246 Mar 27 19:40	0°♂ 508'44 16°♂ 35'20 24°♂ 37'10 0°≈ 0° ₩ 8° ₩ 05'34 15° ₩ 19'44 12° ₩ 49'06 8° ₩ 28'25 8° ₩ 24'37 6° ₩ 23'13 6° ₩ 25'49 0° ₩ 36'44 30° R≈ 29°≈ 40'35 0° ₩ 3° ₩ 15'25 26° ₩ 33'43 0° ♥	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 05 06:53 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00 10247 Mar 11 01:02	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₹ 14° ₹35'06	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18
evening rise desc. node 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.	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 19 18:42 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 22 109:13 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 04 05:59 10246 Mar 25 14:58 10246 Mar 27 19:40 10246 Mar 30 06:25 10246 Apr 14 17:40	0°ጜ 9°ጜ08'44 16°ጜ35'20 24°ጜ37'10 0°≈ 0°ዠ 8°ዠ05'34 15°ዠ19'44 12°ዠ49'06 8°ዠ28'25 8°ዠ24'37 6°ዠ23'13 6°ዠ25'49 0°ዠ36'44 30°₨≈ 29°≈40'35 0°ዠ 3°ዠ15'25 26°ዠ33'43 0°ዣ 3°♈50'23 28°♈03'43	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53 18°39'15 1.45562 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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 05 06:53 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 11 01:02 10247 Mar 12 11:45 10247 Mar 20 14:11	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₹ 14° ₹35'06 16° ₹56'25 0° ♥	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18
evening rise desc. node 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	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 19 17:27 10246 Feb 19 18:42 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 22 10:13 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 04 05:59 10246 Mar 27 19:40 10246 Mar 30 06:25 10246 Apr 15 11:51	0°ጜ 9°ጜ08'44 16°ጜ35'20 24°ጜ37'10 0°ଛ 0°ዠ 8°ዠ05'34 15°ዠ19'44 12°ዠ49'06 8°ዠ28'25 8°ዠ24'37 6°ዠ25'49 0°ዠ36'44 30°₨ 29°≈40'35 0°ዠ 3°ዠ15'25 26°ዠ33'43 0°Ƴ 3°℉50'23 28°Ƴ03'43	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53 18°39'15 1.45562 AU -1°59'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 06 14:39 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 11 01:02 10247 Mar 12 11:45 10247 Mar 20 14:11	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₹ 14° ₹35'06 16° ₹56'25 0° Υ	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18 18°05'28
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evening rise desc. node 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	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 21 09:13 10246 Feb 22 10:18 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 04 05:59 10246 Mar 25 14:58 10246 Mar 30 06:25 10246 Apr 15 11:51 10246 Apr 15 03:58 10246 Apr 15 11:51	0°ጜ 9°ጜ08'44 16°ጜ35'20 24°ጜ37'10 0°≈ 0°ዠ 8°ዠ05'34 15°ዠ19'44 12°ዠ49'06 8°ዠ28'25 8°ዠ24'37 6°ዠ23'13 6°ዠ25'49 0°ዠ36'44 30°₨ 29°≈40'35 0°ዠ 3°ዠ15'25 26°ዠ33'43 0°♈ 3°℉50'23 28°℉03'43	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53 18°39'15 1.45562 AU -1°59'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 05 06:07 10247 Feb 05 06:07 10247 Feb 06 14:39 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00 10247 Mar 11 01:02 10247 Mar 20 14:11 10247 Mar 25 19:32 10247 Mar 25 19:32 10247 Mar 25 10:22 10247 Mar 28 13:50	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₩ 14° ₩35'06 16° ₩56'25 0° ♀ 8° ♀16'49 7° ♀40'39 12° ♀37'15	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18 18°05'28
evening rise desc. node 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	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Jan 27 15:20 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 21 09:13 10246 Feb 22 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 04 05:59 10246 Mar 25 14:58 10246 Mar 27 19:40 10246 Mar 30 06:25 10246 Apr 15 11:51 10246 Apr 15 03:58 10246 Apr 15 13:58 10246 Apr 15 23:23 10246 Apr 30 23:39	0°ጜ 9°ጜ08'44 16°ጜ35'20 24°ጜ37'10 0°≈ 0°ឣ 8°ឣ05'34 15°ឣ19'44 12°ឣ49'06 8°ឣ28'25 8°ឣ24'37 6°ឣ23'13 6°ឣ25'49 0°ឣ36'44 30°₨ 29°≈40'35 0°ឣ 3°ឣ15'25 26°ឣ33'43 0°Ψ 3°ϒ50'23 28°ϒ03'43	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53 18°39'15 1.45562 AU -1°59'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 03 02:59 10247 Feb 05 06:07 10247 Feb 05 06:53 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00 10247 Mar 11 01:02 10247 Mar 25 19:32 10247 Mar 25 19:32 10247 Mar 25 19:32 10247 Mar 28 13:50 10247 Apr 08 17:48	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₹ 14° ₹35'06 16° ₹56'25 0° ♀ 8° ♀16'49 7° ♀40'39 12° ♀37'15 0° ₹	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18 18°05'28
evening rise desc. node 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	10245 Dec 14 14:44 10245 Dec 19 05:02 10245 Dec 23 03:19 10245 Dec 27 14:35 10245 Dec 30 18:05 10246 Jan 20 07:55 10246 Feb 09 09:12 10246 Feb 15 13:57 10246 Feb 19 17:27 10246 Feb 21 10:04 10246 Feb 21 09:13 10246 Feb 21 09:13 10246 Feb 22 10:18 10246 Feb 28 12:18 10246 Mar 02 08:41 10246 Mar 04 05:59 10246 Mar 04 05:59 10246 Mar 25 14:58 10246 Mar 30 06:25 10246 Apr 15 11:51 10246 Apr 15 03:58 10246 Apr 15 11:51	0°ጜ 9°ጜ08'44 16°ጜ35'20 24°ጜ37'10 0°≈ 0°ዠ 8°ዠ05'34 15°ዠ19'44 12°ዠ49'06 8°ዠ28'25 8°ዠ24'37 6°ዠ23'13 6°ዠ25'49 0°ዠ36'44 30°₨ 29°≈40'35 0°ዠ 3°ዠ15'25 26°ዠ33'43 0°♈ 3°℉50'23 28°℉03'43	1.35977 AU 26°10'57 0.66875 AU 0°33'00 0°32'53 18°39'15 1.45562 AU -1°59'53	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	10246 Nov 28 04:13 10246 Nov 28 05:10 10246 Dec 01 19:55 10246 Dec 06 07:11 10246 Dec 06 07:38 10246 Dec 14 11:35 10246 Dec 23 20:22 10247 Jan 10 04:54 10247 Jan 23 12:28 10247 Jan 30 03:46 10247 Feb 05 06:07 10247 Feb 05 06:07 10247 Feb 06 14:39 10247 Feb 11 11:18 10247 Feb 14 05:17 10247 Feb 20 14:52 10247 Mar 01 24:00 10247 Mar 11 01:02 10247 Mar 20 14:11 10247 Mar 25 19:32 10247 Mar 25 19:32 10247 Mar 25 10:22 10247 Mar 28 13:50	13° ₹24'33 13° ₹29'32 21° ₹02'14 29° ₹57'49 0° ₹ 14° ₹57'03 0° ≈ 21° ≈45'03 29° ≈06'38 26° ≈32'34 22° ≈42'01 20° ≈16'43 20° ≈14'32 18° ≈45'41 14° ≈42'16 14° ≈01'24 17° ≈24'05 0° ₩ 14° ₩35'06 16° ₩56'25 0° ♀ 8° ♀16'49 7° ♀40'39 12° ♀37'15	1°38'30 1.34196 AU 27°01'48 0.65520 AU -0°26'57 0°26'18 18°05'28 -1°28'26 1°27'26 1.45541 AU

evening max el	10247 Apr 28 13:16 10247 May 05 13:56	0°Щ 8°Щ42'27	19°28'06	max. Earth dist.	10248 Mar 10 09:00 10248 Mar 12 05:16	27° ∺ 05'03 0° Ƴ	1.44784 AU
asc. node	10247 May 05 12:45	8° П 39'27	19 20 00	evening rise	10248 Mar 20 10:34	12° Y 46'17	
retrograde	10247 May 12 17:59	12° Ⅱ 45'55		C	10248 Mar 31 20:38	0°8	
evening set	10247 May 16 09:05	11° Ⅱ 29'01		evening max el	10248 Apr 17 16:05	22° 8 24'20	20°28'06
inferior conj	10247 May 21 18:37	5° Ⅱ 35'41	3°18'35	asc. node	10248 Apr 21 09:54	25° 8 34'41	
minimum elong	10247 May 21 18:33	5° Ⅱ 35'57	3°18'11	retrograde	10248 Apr 25 16:42	27° 8 04'15	
min. Earth dist.	10247 May 23 01:12	3° Ⅱ 55′03	0.67020 AU	evening set	10248 Apr 29 17:03	25° 8 31'42	
	10247 May 26 08:56	30° ₹ 8		inferior conj	10248 May 05 00:09	19° 8 25'13	3°11'40
morning rise	10247 May 27 03:38	29° 8 15'35		minimum elong	10248 May 04 23:03	19° 8 28'58	3°11'14
direct	10247 Jun 02 05:24	26° 8 34'56		min. Earth dist.	10248 May 05 16:36	18° 8 28'45	0.67999 AU
desc. node	10247 Jun 08 12:08	28° 8 48'47		morning rise	10248 May 10 04:48	13° 8 07'33	
	10247 Jun 10 04:03	0°II	25041104	direct	10248 May 15 18:17	10° 8 39'19	
morning max el	10247 Jun 14 14:03 10247 Jul 04 10:49	3° Ⅱ 58'51 0° ©	25°41'04	desc. node	10248 May 25 09:06	15° 8 48'54 17° 8 22'30	24915112
morning set	10247 Jul 04 10.49 10247 Jul 20 15:48	0 S 27°S03'22		morning max el	10248 May 26 23:39 10248 Jun 06 12:12	0° I	24 13 13
morning set	10247 Jul 20 15:48 10247 Jul 22 06:11	27 3 03 22			10248 Jun 26 11:33	0°©	
max. Earth dist.	10247 Jul 22 08:11 10247 Jul 24 08:58	3° Ω 58'28	1.35815 AU	morning set	10248 Jul 01 14:43	8°940'41	
max. Latur dist.	1024/ Jul 24 00.30	3 6 6 3 6 2 6	1.55615 AC	max. Earth dist.	10248 Jul 05 06:59	15°909'45	1.37969 AU
superior conj	10247 Jul 30 05:14	15° Ω 24'44	-0°22'12	max. Burth dist.	10210341 03 00.37	13 00) 13	1.57707110
minimum elong	10247 Jul 30 06:36	15° Ω 31'33	0°22'17	superior conj	10248 Jul 12 10:03	28°523'41	-0°55'13
asc. node	10247 Aug 01 12:00	20° Ω 02'08		minimum elong	10248 Jul 12 13:41	28°5941'05	0°55'00
	10247 Aug 06 08:23	0° m)		C	10248 Jul 13 06:06	$0^{\circ}\Omega$	
evening rise	10247 Aug 07 03:55	1° m)40'07		asc. node	10248 Jul 18 08:54	10° Ω 01'35	
	10247 Aug 24 01:45	0∘ 亚		evening rise	10248 Jul 21 04:53	15° Ω 38'32	
evening max el	10247 Aug 24 23:51	0° م 57'10	20°07'09		10248 Jul 28 18:45	0° m)	
desc. node	10247 Sep 04 10:33	6° £ 12'37		evening max el	10248 Aug 06 17:16	12° m 34'37	19°06'18
retrograde	10247 Sep 04 14:08	6° ₽ 12'41		retrograde	10248 Aug 15 16:04	17° m 01'46	
evening set	10247 Sep 06 12:41	6° ഫ 02'53		evening set	10248 Aug 17 12:50	16° m 50'56	
inferior conj	10247 Sep 15 13:32	2° ഫ 03'53		desc. node	10248 Aug 21 07:47	15° m 29'35	
minimum elong	10247 Sep 15 04:48	2° Ω 16'55	3°17'59	inferior conj	10248 Aug 25 23:12	12° m 37'54	
min. Earth dist.	10247 Sep 17 05:58	1° ჲ 03'38	0.54957 AU	minimum elong	10248 Aug 25 19:26	12° Mp 44'20	1°25'15
	10247 Sep 19 02:29	30°R, M)		min. Earth dist.	10248 Aug 28 19:15	10° Mp 42'16	0.56176 AU
morning rise direct	10247 Sep 23 19:49 10247 Sep 28 08:03	27° m 53'47 27° m 09'46		morning rise direct	10248 Sep 02 22:59 10248 Sep 08 06:34	7° Mp 52'12 6° Mp 46'21	
direct	10247 Sep 28 08.03 10247 Oct 07 02:33	0° ⊽		morning max el	10248 Sep 08 06.34 10248 Sep 22 10:54	14° M) 00'46	25°46'49
morning max el	10247 Oct 07 02:33 10247 Oct 11 22:26	0 = 3° £ 49'06	24°05'36	morning max ci	10248 Oct 05 02:31	0° ⊽	23 40 49
asc. node	10247 Oct 28 12:25	27° ⊆ 00'45	24 03 30	asc. node	10248 Oct 14 09:16	∘ – 16° Ω 14'36	
ase. noue	10247 Oct 30 02:52	0°M		morning set	10248 Oct 20 01:40	27° £ 52'35	
morning set	10247 Nov 05 14:25	13°ML08'49		8	10248 Oct 21 01:23	0° M .	
C							
superior conj	10247 Nov 12 11:19	28°MJ04'46	1°39'56	superior conj	10248 Oct 26 21:42	12°M51'41	1°35'41
minimum elong	10247 Nov 12 11:04	28° ML $03'22$	1°40'19	minimum elong	10248 Oct 26 20:26	12°M44'42	1°35'54
	10247 Nov 13 08:33	0° ∡ ⊓		max. Earth dist.	10248 Oct 28 00:19	15°ML18'40	1.31927 AU
max. Earth dist.	10247 Nov 14 18:54	3° ₹ ¹05'02	1.32829 AU	evening rise	10248 Nov 02 22:35	28°MJ04'19	
evening rise	10247 Nov 19 22:40	13° ₹ ′50′28			10248 Nov 03 20:56	0° ∡ ¹	
	10247 Nov 28 11:19	0°ಕ		desc. node	10248 Nov 17 05:43	24° ∡ ³34'33	
desc. node	10247 Dec 01 08:38	4°る59'00			10248 Nov 20 17:16	0°る	
	10247 Dec 18 21:49	0° ≈	25020110	evening max el	10248 Dec 05 02:07	17° 3 48'45	27°24'33
evening max el	10247 Dec 23 17:13	5°≈03'56	27°28'19	retrograde	10248 Dec 18 22:40	25°る04'52	
retrograde	10248 Jan 06 09:11	12°≈25'09		evening set	10248 Dec 25 23:26	22°る46'16 19°る53'22	0.61969 ATT
evening set min. Earth dist.	10248 Jan 13 07:56 10248 Jan 17 02:43	9°≈54'21 6°≈35'28	0.63830 AU	min. Earth dist. inferior conj	10248 Dec 29 16:21 10249 Jan 01 16:13	19°る33°22	0.61868 AU
inferior conj	10248 Jan 19 17:12	3°≈54'58		minimum elong	10249 Jan 01 10:13	17 00922 16°る56'32	
minimum elong	10276 Juli 17 17.12	J ~JT JU			1027) Jan 01 21.7)		2 7337
	10248 Jan 19 20:13	3°≈≈47'11	1°33'13	morning rise	10249 Jan 08 22:44	12°₹707'54	
asc. node	10248 Jan 19 20:13 10248 Jan 23 23:24	3°≈47'11 30°Rる	1°33'13	morning rise asc. node	10249 Jan 08 22:44 10249 Jan 10 08:54	12°る07'54 11°る49'21	
asc. nouc	10248 Jan 19 20:13 10248 Jan 23 23:24 10248 Jan 24 11:47	3°≈47'11 30°Ŗる 29°る38'13	1°33'13		10249 Jan 08 22:44 10249 Jan 10 08:54 10249 Jan 11 03:48		
morning rise	10248 Jan 23 23:24	30°₹₹	1°33'13	asc. node direct	10249 Jan 10 08:54	11° そ 49'21	17°50'03
	10248 Jan 23 23:24 10248 Jan 24 11:47	30°Rる 29°る38'13	1°33'13	asc. node	10249 Jan 10 08:54 10249 Jan 11 03:48	11° ප් 49'21 11° ප් 46'36	17°50'03
morning rise	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27	30°Rප 29°ප38'13 28°ප35'28	1°33'13	asc. node direct	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07	11°549'21 11°546'36 15°516'02	17°50'03
morning rise	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27 10248 Jan 28 20:47	30°R号 29°号38'13 28°号35'28 28°号06'13	1°33'13 17°48'51	asc. node direct morning max el	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07 10249 Jan 28 06:44	11°ත්49'21 11°ත්46'36 15°ත්16'02 0°≈	17°50'03
morning rise direct	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27 10248 Jan 28 20:47 10248 Feb 02 16:27	30°R♂ 29°♂38'13 28°♂35'28 28°♂06'13 0°≈ 1°≈27'25 26°≈40'23		asc. node direct morning max el morning set	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07 10249 Jan 28 06:44 10249 Feb 02 18:58 10249 Feb 13 05:20	11°♂49'21 11°♂46'36 15°♂16'02 0°≈ 9°≈46'09 28°≈09'21	
morning rise direct morning max el	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27 10248 Jan 28 20:47 10248 Feb 02 16:27 10248 Feb 04 08:22	30°R♂ 29°♂38'13 28°♂35'28 28°♂06'13 0°≈ 1°≈27'25 26°≈40'23 0°\		asc. node direct morning max el morning set desc. node superior conj	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07 10249 Jan 28 06:44 10249 Feb 02 18:58	11°ත්49'21 11°ත්46'36 15°ත්16'02 0°≈ 9°≈46'09	
morning rise direct morning max el	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27 10248 Jan 28 20:47 10248 Feb 02 16:27 10248 Feb 04 08:22 10248 Feb 20 23:17	30°R♂ 29°♂38'13 28°♂35'28 28°♂06'13 0°≈ 1°≈27'25 26°≈40'23		asc. node direct morning max el morning set desc. node superior conj minimum elong	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07 10249 Jan 28 06:44 10249 Feb 02 18:58 10249 Feb 13 05:20 10249 Feb 13 19:55 10249 Feb 13 19:31	11°る49'21 11°る46'36 15°る16'02 0°≈ 9°≈46'09 28°≈09'21 29°≈11'38 29°≈09'55	
morning rise direct morning max el morning set desc. node	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27 10248 Jan 28 20:47 10248 Feb 02 16:27 10248 Feb 04 08:22 10248 Feb 20 23:17 10248 Feb 22 22:06 10248 Feb 27 08:33	30°Rで 29°で338'13 28°で335'28 28°で306'13 0°≈ 1°≈27'25 26°≈40'23 0°升 7°升29'50	17°48'51	asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07 10249 Jan 28 06:44 10249 Feb 02 18:58 10249 Feb 13 05:20 10249 Feb 13 19:55 10249 Feb 13 19:31 10249 Feb 13 11:09	11°る49'21 11°る46'36 15°る16'02 0°≈ 9°≈46'09 28°≈09'21 29°≈11'38 29°≈09'55 28°≈34'12	-0°04'37
morning rise direct morning max el morning set	10248 Jan 23 23:24 10248 Jan 24 11:47 10248 Jan 26 10:27 10248 Jan 28 20:47 10248 Feb 02 16:27 10248 Feb 04 08:22 10248 Feb 20 23:17 10248 Feb 22 22:06	30°R♂ 29°♂38'13 28°♂35'28 28°♂06'13 0°≈ 1°≈27'25 26°≈40'23 0°\	17°48'51 -0°46'47	asc. node direct morning max el morning set desc. node superior conj minimum elong	10249 Jan 10 08:54 10249 Jan 11 03:48 10249 Jan 18 01:07 10249 Jan 28 06:44 10249 Feb 02 18:58 10249 Feb 13 05:20 10249 Feb 13 19:55 10249 Feb 13 19:31	11°る49'21 11°る46'36 15°る16'02 0°≈ 9°≈46'09 28°≈09'21 29°≈11'38 29°≈09'55	-0°04'37

P. d. F.	10240 E 1 21 00 26	1101/00/27	1 42270 411		10050 1 21 00 00	100 - 51122	
max. Earth dist.	10249 Feb 21 00:26	11° ∺ 09'27	1.43378 AU	desc. node	10250 Jan 31 02:08	18°≈51'33	1 41 400 1 77
evening rise	10249 Feb 28 02:22	22°) €25'30		max. Earth dist.	10250 Feb 03 11:09	24°≈38'08	1.41489 AU
	10249 Mar 05 00:26	0° Υ			10250 Feb 06 16:31	0° \	
	10249 Mar 26 04:03	0° 8		evening rise	10250 Feb 08 10:37	2° ¥ 51'38	
evening max el	10249 Mar 31 12:42	6° 8 07'25	21°39'59		10250 Feb 26 08:52	0° Υ	
asc. node	10249 Apr 08 07:05	11° 8 20'39		evening max el	10250 Mar 14 05:04		22°59'00
retrograde	10249 Apr 09 14:54	11° 8 29'19		retrograde	10250 Mar 24 10:51	25° Y 56′05	
evening set	10249 Apr 14 01:28	9° 8 41'29		asc. node	10250 Mar 26 04:18	25° Y 41'36	
inferior conj	10249 Apr 19 08:26	3° 8 24'09		evening set	10250 Mar 29 08:42	23° Y 53'36	
minimum elong	10249 Apr 19 06:37	_	2°53'21	inferior conj	10250 Apr 03 17:30	17° Ƴ 28'31	2°26'21
min. Earth dist.	10249 Apr 19 11:49	3° 8 12'23	0.68518 AU	minimum elong	10250 Apr 03 15:19	17° Y 36'04	2°25'40
	10249 Apr 21 20:59	30° ŖƳ		min. Earth dist.	10250 Apr 03 08:34	17° Y ′59'27	0.68596 AU
morning rise	10249 Apr 24 11:35	27° Ƴ 10'45		morning rise	10250 Apr 08 21:49	11° Y 20'47	
direct	10249 Apr 29 11:42	25° Y ′00'44		direct	10250 Apr 13 08:27	9° Y 32'02	
	10249 May 08 12:21	0° 8		morning max el	10250 Apr 22 00:49	14° Y 33'17	21°20'10
morning max el	10249 May 09 10:10	0° 8 53'30	22°45'22	desc. node	10250 Apr 29 02:52	22° Y 51'15	
desc. node	10249 May 12 06:01	3° 8 56'01			10250 May 04 09:20	0°8	
	10249 May 31 09:05	Π° 0		morning set	10250 May 23 09:36	28° 8 28'34	
morning set	10249 Jun 12 13:32	19° Ⅱ 11'06			10250 May 24 08:44	$\Pi^{\circ}0$	
max. Earth dist.	10249 Jun 17 04:05	26° Ⅲ 54'15	1.40253 AU	max. Earth dist.	10250 May 30 06:24	9° Ⅱ 31′09	1.42394 AU
	10249 Jun 18 23:19	0°ಲ			,		
				superior conj	10250 Jun 06 15:38	21° II 55'07	-1°54'44
superior conj	10249 Jun 24 23:03	10° © 37'26	-1°27'29	minimum elong	10250 Jun 06 21:50	22° ∏ 21'49	1°54'40
minimum elong	10249 Jun 25 04:47	11° © 03'28	1°27'10		10250 Jun 11 06:49	0.ಪ	
evening rise	10249 Jul 04 20:48	29° 5 09'09		evening rise	10250 Jun 17 23:34	12° © 01'14	
asc. node	10249 Jul 05 05:50	29°952'00		asc. node	10250 Jun 22 02:49	19° © 28'20	
use. Houe	10249 Jul 05 07:31	0°Ω		use. Houe	10250 Jun 28 08:10	0°Ω	
evening max el	10249 Jul 20 21:23	24° Ω 54'56	18°26'35	evening max el	10250 Jul 04 08:07	7° Ω 47'38	18°07'00
retrograde	10249 Jul 28 12:32	28° Ω 44'25	10 2033	retrograde	10250 Jul 11 02:54	11° Ω 14'50	10 07 00
evening set	10249 Jul 30 15:09	28° Ω 27'44		evening set	10250 Jul 13 13:21	10°Ω48'27	
inferior conj	10249 Aug 07 06:12		0°17'18	inferior conj	10250 Jul 20 10:07	5°Ω55'14	1°36'51
minimum elong	10249 Aug 07 06:49	23° Ω 53'52	0°16'45	minimum elong	10250 Jul 20 12:44	5° Ω 49'11	1°35'37
desc. node	10249 Aug 07 00:49 10249 Aug 08 05:01	23° Ω 09'16	0 1043	min. Earth dist.	10250 Jul 23 16:38	$2^{\circ}\Omega 54'21$	0.60293 AU
min. Earth dist.	10249 Aug 08 03:01 10249 Aug 10 14:19	$21^{\circ}\Omega 16'15$	0.58064 AU	desc. node	10250 Jul 26 02:14	0° Ω 57'22	0.00293 AU
	U	$18^{\circ}\Omega 32'50$	0.38004 AU		10250 Jul 27 09:14	0° Ω 04'38	
morning rise	10249 Aug 14 18:56	$16^{\circ} \Omega 58'11$		morning rise			
direct	10249 Aug 20 20:03		27905100	J: 4	10250 Jul 27 12:13	30°₹©	
morning max el	10249 Sep 04 04:47	24° Ω 37'51	27°05'09	direct	10250 Aug 02 22:05	28°500'34	
	10249 Sep 09 03:07	0° my			10250 Aug 09 16:56	0°N	27040105
,	10249 Sep 28 07:06	0° ⊽		morning max el	10250 Aug 17 05:32	5° Ω 55'42	2/°49'05
asc. node	10249 Oct 01 06:07	5° Ω 49'55		4	10250 Sep 04 06:34	0° my	
morning set	10249 Oct 04 10:46	12° ≏ 27'13		asc. node	10250 Sep 18 02:56	25° m 39'53	
				morning set	10250 Sep 18 15:56	26° Mp 47'21	
superior conj	10249 Oct 11 09:26				10250 Sep 20 04:32	0∘ ⊽	
minimum elong	10249 Oct 11 07:28		1°25'46	max. Earth dist.	10250 Sep 24 18:17	9° ≙ 56'04	1.31568 AU
max. Earth dist.	10249 Oct 11 09:18	27° △ 38'48	1.31507 AU			_	
	10249 Oct 12 10:41	0° M		superior conj	10250 Sep 25 20:41	12° ≏ 22'04	1°10'33
evening rise	10249 Oct 18 04:26	12°M32'48		minimum elong	10250 Sep 25 18:26	12° ≏ 09'39	1°10'16
	10249 Oct 26 23:47	0° ∡ 7		evening rise	10250 Oct 02 14:02	27° ≏ 09'22	
desc. node	10249 Nov 04 02:51	13° ∡ ³33′21			10250 Oct 03 22:05	0° M	
evening max el	10249 Nov 17 05:14	29° ∡ ¹48'45	26°46'52		10250 Oct 20 18:50	0° ∡	
	10249 Nov 17 10:01	0°ಕ		desc. node	10250 Oct 22 00:03	1° ∡ ′41′01	
retrograde	10249 Dec 01 03:37	6° る 57'19		evening max el	10250 Oct 30 00:31	10° ∡ 57'51	25°36'45
evening set	10249 Dec 07 22:19	5° る 01'04		retrograde	10250 Nov 12 22:00	17° ∡ 58'14	
min. Earth dist.	10249 Dec 11 19:30	2° る 23'38	0.59761 AU	evening set	10250 Nov 18 23:55	16° ∡ ³32'48	
inferior conj	10249 Dec 14 23:46	29° ∡ ′51'19	-4°02'36	min. Earth dist.	10250 Nov 23 12:55	13° ∡ 55'33	0.57708 AU
minimum elong	10249 Dec 15 07:24	29° ∡ ³36′00	3°59'48	inferior conj	10250 Nov 26 12:31	11° ∡ ′51′30	-5°06'25
	10249 Dec 14 19:27	30°R. ✓		minimum elong	10250 Nov 26 19:45	11° ∡ ³38'56	5°04'34
morning rise	10249 Dec 22 19:09	25° х 10′33		morning rise	10250 Dec 04 17:54	7° ∡ ³33'10	
direct	10249 Dec 24 22:25	24° ₹ 53'38		direct	10250 Dec 07 00:35	7° ∡ 17'09	
asc. node	10249 Dec 28 05:59	25° х 36′26		asc. node	10250 Dec 15 03:02	10° ≯ 55'13	
morning max el	10250 Jan 01 13:39	28° х 40′31	18°10'18	morning max el	10250 Dec 15 18:11	11° ₹ ³30'32	18°51'29
	10250 Jan 02 19:57	8°0			10250 Dec 28 01:56	5°0	
morning set	10250 Jan 17 06:01	23° る 34'22		morning set	10251 Jan 01 03:43	7° る 51'32	
	10250 Jan 20 16:07	0° ≈					
				superior conj	10251 Jan 09 16:11	24° る 25'59	1°00'54
superior conj	10250 Jan 26 20:16	11° ≈ 21'15	0°32'08	minimum elong	10251 Jan 09 19:19	24° る 40'52	1°00'55
minimum elong	10250 Jan 26 22:36	11° ≈ 31'47	0°32'09	3	10251 Jan 12 15:31	0° ≈	
3							

E d F	10251 1 16 10 10	70 - 26156	1 20221 411		10050 1 00 10 20	260721126	
max. Earth dist. desc. node	10251 Jan 16 18:19	7°≈26'56 9°≈33'12	1.39331 AU	evening rise desc. node	10252 Jan 02 18:38	26° る 31'26 0°≈09'56	
	10251 Jan 17 23:00 10251 Jan 20 16:21	9°≈33°12 14°≈15'03		desc. node	10252 Jan 04 19:56	0°≈09'56	
evening rise	10251 Jan 20 16:21 10251 Jan 30 09:27	0° \			10252 Jan 04 17:40 10252 Jan 23 21:18	0° ∺	
	10251 Feb 21 07:52	0° Υ		evening max el	10252 Feb 07 08:27	17° ∺ 31′00	25°33'29
evening max el	10251 Feb 21 07.32 10251 Feb 24 19:10		24°19'05	retrograde	10252 Feb	24° H 35'27	23 33 29
retrograde	10251 Mar 08 03:20	10° Υ 20'14	24 1903	evening set	10252 Feb 25 13:34	22°\(\)08'53	
asc. node	10251 Mar 13 01:32	8° Υ 28'23		asc. node	10252 Feb 27 22:46	19°) 46'53	
evening set	10251 Mar 13 01:32	8° Υ 04'30		min. Earth dist.	10252 Feb 29 21:48	17°) 24'53	0.67491 AU
min. Earth dist.	10251 Mar 18 04:38	2° Υ 45'30	0.68249 AU	inferior conj	10252 Mar 02 06:29	15°) (40′20	1°03'32
inferior conj	10251 Mar 19 01:29	1° Υ 35'22	1°49'30	minimum elong	10252 Mar 02 05:01	15°) (45'03	1°03'08
minimum elong	10251 Mar 18 23:24	1° Ƴ 42'24	1°48'50	morning rise	10252 Mar 07 20:56	9°) 48′22	
	10251 Mar 20 06:10	30° ₹ ₩		direct	10252 Mar 11 06:39	8°) 41′52	
morning rise	10251 Mar 24 09:36	25°) 34'45		morning max el	10252 Mar 18 04:26	12° ¥ 28'31	19°06'20
direct	10251 Mar 28 07:18	24°) €07'51			10252 Mar 31 08:03	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	10251 Apr 04 22:41	28°) €25'32	20°05'59	greatest brilliancy	10252 Mar 31 10:15	0° Υ 08'18	-0.7m
	10251 Apr 06 10:52	$0^{\circ}\mathbf{\Upsilon}$		desc. node	10252 Apr 01 20:27	2° Ƴ 17'38	
desc. node	10251 Apr 15 23:40	12° Y 21'48		morning set	10252 Apr 10 13:24	15° Ƴ 40'44	
	10251 Apr 27 21:19	9° 8			10252 Apr 19 18:38	9° 8	
morning set	10251 May 02 10:35	6° 8 58'11		max. Earth dist.	10252 Apr 24 08:13	7° 8 08'57	1.45237 AU
max. Earth dist.	10251 May 12 16:23	23° 8 01'24	1.44122 AU				
	10251 May 17 00:19	Π $^{\circ}$ 0		superior conj	10252 Apr 27 02:04	11° 8 28'21	
				minimum elong	10252 Apr 26 21:53	11° 8 11'50	2°10'00
superior conj	10251 May 18 08:15	2° Ⅱ 10′13			10252 May 08 15:20	0°II	
minimum elong	10251 May 18 11:10	2° Ⅱ 22'13	2°11'19	evening rise	10252 May 11 19:05	5° Ⅱ 09'24	
evening rise	10251 May 31 08:31	24° Ⅱ 04'28		asc. node	10252 May 25 20:58	27° I 35'52	
,	10251 Jun 03 19:09	0.ee			10252 May 27 14:26	0°©	10024125
asc. node	10251 Jun 08 23:52	8°545'20	10007122	evening max el	10252 May 31 10:52	4°933'19	18°24'35
evening max el	10251 Jun 17 21:41	21°903'17	18°06'32	retrograde	10252 Jun 06 21:06	8°900'48	
retrograde	10251 Jun 24 07:16 10251 Jun 27 01:32	24°523'33		evening set	10252 Jun 09 23:05	7° © 08'04 1° © 38'34	3°02'41
evening set inferior conj	10251 Jul	23°544'49 18°532'28	2°30'45	inferior conj minimum elong	10252 Jun 15 18:22 10252 Jun 15 20:09	1°933'17	3°01'58
minimum elong	10251 Jul 03 07:34 10251 Jul 03 10:15	18°925'22	2°29'39	minimum clong	10252 Jun 17 03:46	1 3 33 17	3 01 36
min. Earth dist.	10251 Jul 06 03:53	15°932'45	0.62541 AU	min. Earth dist.	10252 Jun 17 03:40 10252 Jun 18 00:36	28° II 59'37	0.64568 AU
morning rise	10251 Jul 09 17:04	13 3 32 43	0.02541 AU	morning rise	10252 Jun 21 16:09	25° Ⅱ 20'41	0.04308 AC
desc. node	10251 Jul 12 23:24	10°934'36		direct	10252 Jun 28 07:07	22° II 39'14	
direct	10251 Jul 16 10:19	9°956'08		desc. node	10252 Jun 28 20:29	22° I I40'17	
morning max el	10251 Jul 30 12:17		27°54'33	dese. node	10252 Jul 11 07:01	0°ම	
	10251 Aug 09 13:53	0°N	_, _, _,	morning max el	10252 Jul 11 22:28	0°538'26	27°24'12
	10251 Aug 28 02:26	0° m)		C	10252 Aug 02 15:12	$0^{\circ}\Omega$	
morning set	10251 Sep 02 15:05	10° m)47'31		morning set	10252 Aug 16 05:41	24° Ω 21'15	
asc. node	10251 Sep 04 23:47	15° m 39'33		•	10252 Aug 19 01:40	0° m)	
max. Earth dist.	10251 Sep 07 23:30	22° m 00'18	1.32121 AU	max. Earth dist.	10252 Aug 20 21:04	3°M/42'17	1.33171 AU
				asc. node	10252 Aug 21 20:38	5° m 44'41	
superior conj	10251 Sep 10 05:36	26° Mp 53'51	0°50'14				
minimum elong	10251 Sep 10 03:34	26° Mp 42'48	0°49'48	superior conj	10252 Aug 24 10:10	11°M/09'22	0°25'13
	10251 Sep 11 15:35	0∘ ⊽		minimum elong	10252 Aug 24 08:57	11° m 02'54	0°24'46
evening rise	10251 Sep 17 01:24	11° ≙ 48'15		evening rise	10252 Aug 31 12:39	26° Mp 24'04	
	10251 Sep 26 04:40	0° M ₊			10252 Sep 02 05:41	0∘ ⊽	
desc. node	10251 Oct 08 21:18	18° M ⋅37'20			10252 Sep 20 13:07	0° M ₊	
evening max el	10251 Oct 11 12:38	21°M22'15	24°03'18	evening max el	10252 Sep 22 00:12	1°M30'16	22°22'56
retrograde	10251 Oct 25 04:06	28°M11'51		desc. node	10252 Sep 24 18:34	3°M56'20	
evening set	10251 Oct 30 00:57	27°M19'54	0.55070 ATT	retrograde	10252 Oct 04 22:31	7°M56'46	
min. Earth dist.	10251 Nov 04 23:12	24°M24'11	0.55978 AU	evening set	10252 Oct 08 07:29	7°M31'37	0.54075 ATT
inferior conj minimum elong	10251 Nov 07 04:46 10251 Nov 07 06:56	23°M02'39 22°M59'20		min. Earth dist. inferior conj	10252 Oct 16 06:46 10252 Oct 17 03:45	3°M59'43 3°M30'05	0.54875 AU
morning rise	10251 Nov 15 14:56	19°M05'06	3 41 34	minimum elong	10252 Oct 17 03.43	3°M38'27	
direct	10251 Nov 13 14:30 10251 Nov 18 07:21	18°M46'34		mmmum ciong	10252 Oct 10 21:50 10252 Oct 24 12:59	30°R <u>Ω</u>	2 20 70
morning max el	10251 Nov 28 11:04	23°M35'18	19°55'14	morning rise	10252 Oct 24 12:59 10252 Oct 25 13:51	30 k== 29° £ 42'52	
asc. node	10251 Nov 28 11:04 10251 Dec 02 00:02	27°M30'51	-> 5511	direct	10252 Oct 28 21:05	29° ≏ 18'21	
	10251 Dec 02 00:02 10251 Dec 03 20:33	0° ⊼			10252 Nov 02 01:12	0°ML	
morning set	10251 Dec 16 08:26	22° х 26'20		morning max el	10252 Nov 09 14:30	4°ML50'01	21°21'03
	10251 Dec 20 01:23	0°පි		asc. node	10252 Nov 17 21:00	15°ML07'33	
					10252 Nov 26 05:03	0° ∡ 7	
superior conj	10251 Dec 24 02:42	8° ට 11'24	1°21'22	morning set	10252 Nov 29 17:30	7° ∡ 11'13	
minimum elong	10251 Dec 24 05:24	8° る 24'48	1°21'33				
max. Earth dist.	10251 Dec 30 00:53	19° ප 39'41	1.37148 AU	superior conj	10252 Dec 06 23:44	22° ₹ ¹25'48	1°34'03

	10050 D 05 01 00	220 72 410	100.400		1005033 00 15 10	0.000	
minimum elong	10252 Dec 07 01:22	22° ∡ '34'19	1°34'23		10253 Nov 02 15:48	0°M	
79 at 12 a	10252 Dec 10 16:38	0°る	1.05151.477	asc. node	10253 Nov 04 17:54	3°M30'33	
max. Earth dist.	10252 Dec 11 11:20	1°る33'19	1.35171 AU	morning set	10253 Nov 14 04:46	21°M59'25	
evening rise	10252 Dec 15 14:17	9° る 32'59			10253 Nov 17 22:16	0° ∡ 7	
desc. node	10252 Dec 21 16:55	20° පි 37'41			1005031 01 00 54	co 3 50145	1020120
	10252 Dec 27 07:20	0° ≈		superior conj	10253 Nov 21 03:54	6° ₹ 58'45	1°39'39
	10253 Jan 18 15:13	0° ∀		minimum elong	10253 Nov 21 04:19	7° ∡ 01'00	1°40'03
evening max el	10253 Jan 19 21:46	1°) 15'57	26°35'00	max. Earth dist.	10253 Nov 24 05:20	13° ∡ 28'13	1.33559 AU
retrograde	10253 Feb 01 22:11	8°) ₹35'05		evening rise	10253 Nov 28 23:30	23° × 09'33	
evening set	10253 Feb 08 07:47	6° ∺ 01'55			10253 Dec 02 12:44	0°₹	
min. Earth dist.	10253 Feb 12 09:56		0.66344 AU	desc. node	10253 Dec 08 13:58	10°る50'52	
asc. node	10253 Feb 13 19:59	0°) 10'46			10253 Dec 20 23:21	0° ≈	
	10253 Feb 13 23:34	30°R ≈		evening max el	10254 Jan 02 10:56	14° ≈ 48′03	27°16'25
inferior conj	10253 Feb 14 06:26	29° ≈ 39'24	0°08'35	retrograde	10254 Jan 15 23:01	22° ≈ 11'04	
minimum elong	10253 Feb 14 06:12	29° ≈ 40′08	0°08'46	evening set	10254 Jan 22 17:50	19° ≈ 37′25	
transit middle	10253 Feb 14 06:12	29° ≈ 40′08	0°08'46	min. Earth dist.	10254 Jan 26 14:55	16° ≈ 00'38	0.64834 AU
transit begin	10253 Feb 14 03:45	29° ≈ 47'26		inferior conj	10254 Jan 28 23:01	13° ≈ 27'27	-0°54'54
transit end	10253 Feb 14 08:38	29° ≈ 32'50		minimum elong	10254 Jan 29 00:40	13° ≈ 22'55	0°53'50
morning rise	10253 Feb 20 05:37	23° ≈ 58′01		asc. node	10254 Jan 31 17:08	10° ≈ 36′14	
direct	10253 Feb 23 04:47	23° ≈ 08'58		morning rise	10254 Feb 04 09:08	7° ≈ 58'57	
morning max el	10253 Mar 01 16:45	26° ≈ 37'16	18°22'49	direct	10254 Feb 06 23:29	7° ≈ 23'38	
	10253 Mar 04 16:57	0° ∀		morning max el	10254 Feb 13 09:11	10° ≈ 44'51	17°56'13
desc. node	10253 Mar 19 17:12	22° ∺ 31'59			10254 Feb 26 17:51	0° ∀	
morning set	10253 Mar 21 14:56	25°) 34′03		morning set	10254 Mar 02 21:54	6° ¥ 55′02	
	10253 Mar 24 09:48	$0^{\circ}\mathbf{\Upsilon}$		desc. node	10254 Mar 06 13:59	12° ¥ 59'50	
superior conj	10253 Apr 06 08:11	20° Y 22'04	-1°48'26	superior conj	10254 Mar 16 21:04	29°) 41′26	-1°11'23
minimum elong	10253 Apr 05 22:51	19° Ƴ 45'37	1°47'46	minimum elong	10254 Mar 16 13:16	29° ℋ 10′20	1°10'22
max. Earth dist.	10253 Apr 07 03:02	21° Y 35'47	1.45638 AU		10254 Mar 17 01:44	0 ° Υ	
	10253 Apr 12 12:04	9° 8		max. Earth dist.	10254 Mar 20 22:34	6° Ƴ 07'10	1.45299 AU
evening rise	10253 Apr 22 05:47	15° 8 16'04		evening rise	10254 Apr 01 22:16	24° Y 44'03	
	10253 May 01 15:19	Π $^{\circ}0$			10254 Apr 05 08:43	9° 8	
greatest brilliancy	10253 May 02 08:19	1° Ⅱ 05'38	-0.8m	greatest brilliancy	10254 Apr 16 10:10	16° 8 39'12	-0.6m
asc. node	10253 May 12 18:06	15° Ⅱ 50'49			10254 Apr 26 08:41	$\Pi^{\circ}0$	
evening max el	10253 May 14 21:01	18° Ⅲ 10′58	19°00'15	evening max el	10254 Apr 28 02:27	1° Ⅱ 52'32	19°52'04
retrograde	10253 May 21 16:31	21° Ⅲ 58'19		asc. node	10254 Apr 29 15:15	3° Ⅱ 19'18	
evening set	10253 May 25 02:34	20° II 50'33		retrograde	10254 May 05 14:36	6° Ⅱ 10'34	
inferior conj	10253 May 30 14:45	15° Ⅱ 05'35	3°16'59	evening set	10254 May 09 09:28	4° ∏ 47'12	
minimum elong	10253 May 30 15:21	15° Ⅲ 03'41	3°16'31	C	10254 May 13 20:10	30° ₹ 8	
min. Earth dist.	10253 Jun 01 05:57		0.66241 AU	inferior conj	10254 May 14 17:40	28° 8 48'17	3°17'05
morning rise	10253 Jun 05 03:33	8° Ⅱ 44'56		minimum elong	10254 May 14 17:08	28° 8 50'07	3°16'40
direct	10253 Jun 11 11:12	6° Ⅱ 00'45		min. Earth dist.	10254 May 15 18:13	27° 8 25'50	
desc. node	10253 Jun 15 17:31	7° Ⅱ 02'44		morning rise	10254 May 20 00:27	22° 8 28'53	
morning max el	10253 Jun 24 09:11	13° I I42'50	26°24'47	direct	10254 May 25 21:18	19° 8 52'17	
	10253 Jul 07 13:50	0ංම 		desc. node	10254 Jun 02 14:28	23° 8 13'35	
	10253 Jul 26 08:30	0°N		morning max el	10254 Jun 06 18:57	27° 8 00'52	25°05'39
morning set	10253 Jul 30 08:19	7° Ω 18'41		morning max or	10254 Jun 09 13:42	0°II	23 03 37
max. Earth dist.	10253 Aug 03 08:05		1.34715 AU		10254 Jul 01 04:50	0°50	
max. Bartii dist.	10233 11 u g 03 00.03	11 000011	1.5 17 15 710	morning set	10254 Jul 12 18:46	19° 5 28'51	
superior conj	10253 Aug 08 07:54	25° Ω 01'11	-0°03'57	max. Earth dist.	10254 Jul 16 09:10	26°501'50	1.36695 AU
minimum elong	10253 Aug 08 07:54 10253 Aug 08 08:08	$25^{\circ}\Omega_{02'25}$		mas. Lurui dist.	10254 Jul 18 12:01	0°Ω	1.500/5/AU
behind sun begin	10253 Aug 08 02:25	24°Ω32'58	0 04 15		10254 Jul 10 12.01	0 82	
behind sun end	10253 Aug 08 02:23 10253 Aug 08 13:52	25° Ω 31'54		superior conj	10254 Jul 22 19:55	8° Ω 22'11	0°36'05
asc. node	10253 Aug 08 17:29	25° Ω 50'34		minimum elong	10254 Jul 22 19:33	8° Ω 33'27	
asc. node	10253 Aug 08 17:29 10253 Aug 10 17:31	0°m)		asc. node	10254 Jul 26 14:22	15° Ω 53'39	0 30 02
avanina riaa	_					15 δι 33 39 25° Ω 00'37	
evening rise	10253 Aug 15 21:44	10° m 50'10		evening rise	10254 Jul 31 02:24		
ovenina ma1	10253 Aug 25 21:56	0∘ ⊽	20051140	ovonina ma1	10254 Aug 02 14:14	0°Mp 23°m-00!44	10020142
evening max el	10253 Sep 03 20:35	11° £ 58'30	20 31 40	evening max el	10254 Aug 17 06:32	23° Mp 09'44	17 3843
desc. node	10253 Sep 11 15:50	17° ♀ 06'53		retrograde	10254 Aug 27 03:20	28° Mp 03'17	
retrograde	10253 Sep 15 10:20	17° Ω 42'52		evening set	10254 Aug 28 23:47	27° Mp 53'43	
evening set	10253 Sep 17 16:08	17° Ω 30'50	4920124	desc. node	10254 Aug 29 13:04	27° Mp 47'16	2022145
inferior conj	10253 Sep 26 19:53	13° △ 35'08		inferior conj	10254 Sep 06 19:40	23° Mp 50'15	
minimum elong	10253 Sep 26 10:01	13° Ω 49'10		minimum elong	10254 Sep 06 12:49	24° Mp 00'59	
min. Earth dist.	10253 Sep 27 15:01	13° Ω 07'52	0.54652 AU	min. Earth dist.	10254 Sep 09 01:49	22° m 25'30	0.55383 AU
morning rise	10253 Oct 05 03:57	9° ₾ 38'49		morning rise	10254 Sep 14 23:45	19° Mp 26'04	
direct	10253 Oct 09 05:08	9° Ω 03'37	2200212.5	direct	10254 Sep 19 20:34	18° Mp 33'27	0.405011.4
morning max el	10253 Oct 22 06:34	15° ≏ 20'18	25~03'35	morning max el	10254 Oct 03 17:53	25° Mp 28'57	24~50'14

	10254 Oct 07 23:48	0∘ ⊽			10255 Sep 07 11:47	0° m)	
asc. node	10254 Oct 22 14:45	22° ≏ 28'37		morning max el	10255 Sep 15 08:00	5° m 47'45	26°23'51
	10254 Oct 26 10:47	0° M			10255 Oct 03 02:06	0∘ ⊽	
morning set	10254 Oct 29 16:31	6° M 46′11		asc. node	10255 Oct 09 11:37	11° ≏ 52'48	
				morning set	10255 Oct 14 03:06	21° ഫ 27'08	
superior conj	10254 Nov 05 12:38	21°M42'30	1°38'50		10255 Oct 18 01:22	0° M	
minimum elong	10254 Nov 05 11:55	21°M38'35	1°39'10				
max. Earth dist.	10254 Nov 07 07:19	25° ™ 35'43	1.32395 AU	superior conj	10255 Oct 20 23:50		1°32'10
	10254 Nov 09 08:21	0° ∡ ¹		minimum elong	10255 Oct 20 22:14	6° M 21'57	1°32'17
evening rise	10254 Nov 12 18:56	7° ₹ 12'25		max. Earth dist.	10255 Oct 21 14:57	7°M54'43	1.31694 AU
desc. node	10254 Nov 25 11:03	0°る42'45		evening rise	10255 Oct 27 21:43	21°M33'57	
	10254 Nov 25 00:47	0°る	27020147	1 1	10255 Nov 01 00:52	0° ⊼ ¹	
evening max el	10254 Dec 15 22:18	27°る54'48 0°≈	27°30'46	desc. node	10255 Nov 12 08:10	20°♂04'45 0°る	
retrograde	10254 Dec 18 06:30 10254 Dec 29 16:47	0 ≈ 5°≈13'53		evening max el	10255 Nov 19 03:50 10255 Nov 28 05:18	0 る 10°る23'05	27012144
evening set	10255 Jan 05 17:01	2°≈47'30		retrograde	10255 Dec 12 02:32	10 3 23 03	27 1244
evening set	10255 Jan 09 02:19	2~4730 30°Rる		evening set	10255 Dec 12 02:32 10255 Dec 19 02:01	17 3 35 10	
min. Earth dist.	10255 Jan 09 10:43	• -	0.63020 AU	min. Earth dist.	10255 Dec 22 19:51	12°る40'19	0.60986 AU
inferior conj	10255 Jan 12 05:23	26° ♂ 56'54		inferior conj	10255 Dec 25 22:21	9° る 59'34	
minimum elong	10255 Jan 12 09:30	26° ප් 46'48	2°03'36	minimum elong	10255 Dec 26 04:58	9° ට 45'14	
asc. node	10255 Jan 18 14:16	21° る 58'20		morning rise	10256 Jan 02 10:29	5° る 06'24	
morning rise	10255 Jan 19 04:10	21° る 44'21		direct	10256 Jan 04 14:26	4° ප 47'16	
direct	10255 Jan 21 11:55	21° る 18'55		asc. node	10256 Jan 05 11:21	4° る 50'28	
morning max el	10255 Jan 28 02:42	24° る 42'42	17°47'04	morning max el	10256 Jan 11 18:07	8° る 22'43	17°56'13
	10255 Feb 01 11:02	0° ≈			10256 Jan 25 18:41	0°≈	
morning set	10255 Feb 13 06:08	19° ≈ 28'55		morning set	10256 Jan 27 09:07	2° ≈ 55'35	
	10255 Feb 19 07:57	0° ∀					
desc. node	10255 Feb 21 10:47	3°) (36′18		superior conj	10256 Feb 06 18:07	21° ≈ 35'22	0°11'52
				minimum elong	10256 Feb 06 19:09	21° ≈ 39'51	0°12'02
superior conj	10255 Feb 25 07:00	10°) €02'27		behind sun begin	10256 Feb 06 13:44	21°≈16'12	
minimum elong	10255 Feb 25 04:04	9° ¥ 50'18	0°27'51 1.44259 AU	behind sun end	10256 Feb 07 00:34	22°≈03'28	
max. Earth dist.	10255 Mar 03 16:30 10255 Mar 09 17:39	20 χ 2/19 0° Υ	1.44239 AU	desc. node	10256 Feb 08 07:37 10256 Feb 11 16:02	24°≈17'50 0°) €	
evening rise	10255 Mar 12 09:58	4° Υ '08'56		max. Earth dist.	10256 Feb 14 06:39	4° ¥ 20'34	1.42630 AU
evening rise	10255 Mar 29 19:22	0°8		evening rise	10256 Feb 20 07:48	14°) (06'24	1.42030 AC
evening max el	10255 Apr 11 02:16	15° 8 35'17	20°57'34	evening rise	10256 Mar 01 16:51	0°Υ	
asc. node	10255 Apr 16 12:25	19° 8 47'03		evening max el	10256 Mar 23 20:56	29° Y ′19'20	22°12'58
retrograde	10255 Apr 19 13:11	20° 8 32'11		· ·	10256 Mar 24 13:25	0° ႘	
evening set	10255 Apr 23 17:48	18° 8 53'03		retrograde	10256 Apr 02 10:32	4° 8 58'50	
inferior conj	10255 Apr 29 00:36	12° 8 41'54	3°05'22	asc. node	10256 Apr 02 09:37	4° 8 58'49	
minimum elong	10255 Apr 28 23:09	12° 8 46'54	3°04'52	evening set	10256 Apr 07 01:55	3° 8 04'23	
min. Earth dist.	10255 Apr 29 11:24	12° 8 04'29	0.68280 AU		10256 Apr 09 23:11	30° ŖƳ	
morning rise	10255 May 04 04:18	6° 8 26'03		inferior conj	10256 Apr 12 09:27	26° Y ′43′21	
direct	10255 May 09 12:17	4° 8 04'53		minimum elong	10256 Apr 12 07:26	26° Y ′50′24	2°42'43
morning max el	10255 May 20 04:24		23°36'54	min. Earth dist.	10256 Apr 12 07:27	26° Y ′50′22	0.68612 AU
desc. node	10255 May 20 11:24	10° 8 44'29		morning rise	10256 Apr 17 12:49	20° Y 32′26	
	10255 Jun 04 16:24	0° ©		direct	10256 Apr 22 07:09	18° Y 31'27 24° Y 01'15	22808107
morning sat	10255 Jun 23 22:52	0°ഇ38'15		morning max el desc. node	10256 May 01 16:21	24° γ 01°13 29° γ 13'51	22 08 06
morning set max. Earth dist.	10255 Jun 24 07:54 10255 Jun 28 05:54		1.38944 AU	uese. Houe	10256 May 06 08:18 10256 May 06 23:24	0° 8	
max. Earth dist.	10233 Juli 28 03.34	1 323 32	1.30944 AU		10256 May 28 01:54	0°II	
superior conj	10255 Jul 05 18:31	21° © 02'57	-1°09'12	morning set	10256 Jun 03 19:14	10° Ⅱ 36'42	
minimum elong	10255 Jul 05 23:08	21°524'32		max. Earth dist.	10256 Jun 09 05:16	19° Ⅲ 31'10	1.41202 AU
	10255 Jul 10 11:16	$0^{\circ}\Omega$			10256 Jun 15 08:00	0°©	
asc. node	10255 Jul 13 11:18	5° Ω 49'46					
evening rise	10255 Jul 14 23:53	8° Ω 47'54		superior conj	10256 Jun 16 23:21	2° © 53'32	-1°39'59
	10255 Jul 26 23:54	0° m)		minimum elong	10256 Jun 17 05:36	3° 5 21'18	1°39'44
evening max el	10255 Jul 31 04:58	5°Mp06'08	18°46'53	evening rise	10256 Jun 27 10:45	22° © 03'19	
retrograde	10255 Aug 08 12:47	9° m 15′22		asc. node	10256 Jun 29 08:16	25° © 34'41	
evening set	10255 Aug 10 11:43	9° m 02′27			10256 Jul 01 18:04	0 $^{\circ}\Omega$	
desc. node	10255 Aug 16 10:16	6° Mp 12′33		evening max el	10256 Jul 13 12:17	17° Ω 40'34	18°15'48
inferior conj	10255 Aug 18 13:59	4° Mp 41'09		retrograde	10256 Jul 20 17:27	21°Ω19'03	
minimum elong	10255 Aug 18 12:20		0°39'35	evening set	10256 Jul 22 23:17	20° Ω 58'39	0054110
min. Earth dist.	10255 Aug 21 17:00	2° m/25'20	0.56918 AU	inferior conj	10256 Jul 30 06:10	16° Ω 16'51	0°54'19
morning rise	10255 Aug 25 16:28 10255 Aug 26 09:37	30°R Ω 29° Ω 39'46		minimum elong desc. node	10256 Jul 30 07:55	16° Ω 13'06 13° Ω 40'49	0°53'20
morning rise direct	10255 Aug 26 09:37 10255 Sep 01 01:15	$29^{\circ} 139'46$ $28^{\circ} \Omega 22'21$		min. Earth dist.	10256 Aug 02 07:30 10256 Aug 02 14:49		0.58984 AU
ancei	10233 Sep 01 01.13	20 062221		mm. Darui uist.	10230 Aug 02 14.49	10 062332	0.50304 AU

	10056 4 06 12 12	100 0 41105		T' 4	10257 1 1 26 02 45	200510100	
morning rise	10256 Aug 06 13:13	10° Ω 41'05		direct	10257 Jul 26 02:45	20°519'08	25056110
direct	10256 Aug 12 19:55	8° Ω 53'57		morning max el	10257 Aug 09 08:47	28°5519'25	27°56'10
morning max el	10256 Aug 27 05:00	16° Ω 41'14	27°28'43		10257 Aug 10 23:48	0 \circ Ω	
	10256 Sep 07 04:09	0° m)			10257 Sep 01 00:07	0° ™	
	10256 Sep 24 13:45	0∘ ⊽		morning set	10257 Sep 11 13:40	20° m 08'49	
asc. node	10256 Sep 25 08:28	1° ≏ 35'03		asc. node	10257 Sep 12 05:19	21° m 29'52	
morning set	10256 Sep 27 10:46	5° ≏ 56'17			10257 Sep 16 05:09	0∘ ত	
				max. Earth dist.	10257 Sep 17 08:17	2° -2 27′52	1.31735 AU
superior conj	10256 Oct 04 11:34	21° ≏ 16'50	1°19'58				
minimum elong	10256 Oct 04 09:26	21° ♀ 04'58	1°19'50	superior conj	10257 Sep 18 22:03	5° ≏ 55'28	1°02'33
max. Earth dist.	10256 Oct 04 00:32	20° ₽ 15'32	1.31469 AU	minimum elong	10257 Sep 18 19:51	5° ≙ 43'15	1°02'11
	10256 Oct 08 09:54	0° M .		evening rise	10257 Sep 25 15:57	20° ≏ 44'11	
evening rise	10256 Oct 11 05:23	6°ML06'18		C	10257 Sep 30 02:36	0° M	
8 21	10256 Oct 23 15:34	0° ∡ 7		desc. node	10257 Oct 16 02:33	26°M24'07	
desc. node	10256 Oct 29 05:21	8° ∡ ¹44'05			10257 Oct 19 03:23	0° ₹	
evening max el	10256 Nov 09 05:04	22° × ⁷ 01'03	26°20'37	evening max el	10257 Oct 21 20:41	2° × 748'14	24°59'00
retrograde	10256 Nov 23 03:11	29°×706'26	20 20 37	retrograde	10257 Nov 04 16:57	9°×7'45'43	24 37 00
evening set	10256 Nov 29 16:28	27° x 00 20		evening set	10257 Nov 10 07:45	8° × ⁷ 34'35	
min. Earth dist.	10256 Dec 03 18:20	24° x ¹ 47'15	0.58871 AU	min. Earth dist.		5° x '54'33	0.56911 AU
					10257 Nov 15 08:25		
inferior conj	10256 Dec 06 22:15	22° 🗷 24'42		inferior conj	10257 Nov 18 02:14	4°×703'56	
minimum elong	10256 Dec 07 06:10	22° ∡ 09'47	4°29'13	minimum elong	10257 Nov 18 07:57	3° ₹ ′54'33	5°25'10
morning rise	10256 Dec 14 22:28	17° ∡ 53'45		morning rise	10257 Nov 26 10:25	29°M55'12	
direct	10256 Dec 17 02:32	17° ∡ ³37'37			10257 Nov 26 02:21	30°RM	
asc. node	10256 Dec 22 08:26	19° ∡ 17'59		direct	10257 Nov 28 20:12	29°M38'42	
morning max el	10256 Dec 25 03:47	21° ∡ ³34'11	18°25'10		10257 Dec 01 12:03	0° ∡ ¹	
	10256 Dec 31 15:22	0°ප		morning max el	10257 Dec 08 03:50	4° ₰ 06'15	19°15'47
morning set	10257 Jan 10 01:12	16° る 57'31		asc. node	10257 Dec 09 05:28	5° ∤ 11'06	
	10257 Jan 16 21:31	0°≈			10257 Dec 24 09:34	8°0	
				morning set	10257 Dec 25 02:13	1° る 22'48	
superior conj	10257 Jan 19 03:28	4°≈10'32	0°45'21				
minimum elong	10257 Jan 19 06:20	4° ≈ 23'47	0°45'19	superior conj	10258 Jan 02 06:09	17° る 34'03	1°10'34
desc. node	10257 Jan 25 04:28	15° ≈ 00'18		minimum elong	10258 Jan 02 09:12	17° る 48'52	1°10'38
max. Earth dist.	10257 Jan 26 15:39	17° ≈ 32'34	1.40592 AU	Č	10258 Jan 08 21:00	0° ≈	
evening rise	10257 Jan 31 00:58	24°≈56'15		max. Earth dist.	10258 Jan 08 21:28	0° ≈ 02'08	1.38391 AU
evening rise	10257 Feb 03 03:32	0° ∀		desc. node	10258 Jan 12 01:22	5° ≈ 40'19	1.50571710
	10257 Feb 23 12:09	0° Υ		evening rise	10258 Jan 12 15:44	6°≈42'59	
evening max el	10257 Mar 06 11:56	13° Υ '05'26	23°33'13	evening rise	10258 Jan 27 02:31	0° ∺	
•	10257 Mar 17 05:18	19° Υ 25'19	25 55 15	avanina may al	10258 Feb 17 01:25	26° ¥ 54'31	24°51'51
retrograde		19 1 23 19 18° Y 40′27		evening max el		20 χ 3431 0° Υ	24 31 31
asc. node	10257 Mar 20 06:51			. 1	10258 Feb 20 11:56		
evening set	10257 Mar 22 08:16	17° Y 16'44	0.60400.444	retrograde	10258 Feb 28 20:09	3° ℃ 46'11	
min. Earth dist.	10257 Mar 27 04:12	11° Y 37'35	0.68499 AU	evening set	10258 Mar 06 11:14	1°Υ25'32	
inferior conj	10257 Mar 27 18:19	10° ℃ 49'09	2°11'49	asc. node	10258 Mar 07 04:05	0° Y 47'35	
minimum elong	10257 Mar 27 16:07	10° Y 56'42	2°11'08		10258 Mar 07 23:01	30°₽)	
morning rise	10257 Apr 01 23:57	4° Υ 44'21		min. Earth dist.	10258 Mar 10 23:25	26° ∺ 21'13	0.67972 AU
direct	10257 Apr 06 04:52	3° Y ′05′12		inferior conj	10258 Mar 12 01:17	24°) ₹55'46	1°31'06
morning max el	10257 Apr 14 10:00	7° Ƴ 46'52	20°46'59	minimum elong	10258 Mar 11 23:23	25°) €02'02	1°30'31
desc. node	10257 Apr 23 05:08	18° Ƴ 25'30		morning rise	10258 Mar 17 11:47	18° ¥ 58′24	
	10257 May 01 08:46	9° 8		direct	10258 Mar 21 04:09	17°) (40′33	
morning set	10257 May 14 05:30	19° 8 29'04		morning max el	10258 Mar 28 11:14	21°) 43′51	19°38'34
	10257 May 20 21:08	$\Pi^{\circ}0$			10258 Apr 04 08:25	0 ° Υ	
max. Earth dist.	10257 May 22 10:44	2° Ⅱ 31'34	1.43187 AU	greatest brilliancy	10258 Apr 10 04:16	8° Y 16'13	-0.6m
				desc. node	10258 Apr 10 01:56	8° Y 07'43	
superior conj	10257 May 29 05:59	13° Ⅱ 44'49	-2°03'22	morning set	10258 Apr 23 04:06	27° Y ′54'49	
minimum elong	10257 May 29 11:22	14° Ⅱ 07′28	2°03'30		10258 Apr 24 12:35	0°8	
	10257 Jun 07 16:06	0°9		max. Earth dist.	10258 May 04 22:51	16° 8 17'16	1.44676 AU
evening rise	10257 Jun 10 06:36	4°936'24		man. Darun dige.	10200 1114, 01 22.01	10 017 10	1.1.1070110
asc. node	10257 Jun 16 05:17	15°503'48		superior conj	10258 May 09 12:16	23° 8 33'36	-2°12'58
asc. node	10257 Jun 26 07:29	0° Ω		minimum elong	10258 May 09 12:27	23° 8 34'18	
ovanina may al	10257 Jun 27 00:38	0° Ω 44'11	18°04'31	minimum clong	,	0°Ⅱ	2 13 19
evening max el		4° Ω 06'57	10 0431	avaning rise	10258 May 13 11:41	0°Щ 16°Щ15'05	
retrograde	10257 Jul 03 14:27			evening rise	10258 May 23 06:27		
evening set	10257 Jul 06 04:05	3° Ω 35'45			10258 May 31 11:38	0°©	
	10257 Jul 11 06:32	30°₹©	2002120	asc. node	10258 Jun 03 02:22	4°9510'24	10012105
inferior conj	10257 Jul 12 18:07	28°534'18	2°02'39	evening max el	10258 Jun 10 14:26	14°506'56	18°12'05
minimum elong	10257 Jul 12 20:56	28°527'22	2°01'25	retrograde	10258 Jun 16 23:11	17°528'29	
min. Earth dist.	10257 Jul 15 21:05	25° © 30'53	0.61255 AU	evening set	10258 Jun 19 20:43	16° © 44'01	
morning rise	10257 Jul 19 11:15	22° © 34'25		inferior conj	10258 Jun 25 21:43	11° © 24'29	2°46'41
desc. node	10257 Jul 20 04:40	22° © 06'32		minimum elong	10258 Jun 26 00:06	11° © 17'53	2°45'44

10259 Jun 09 13:00

10259 Jun 09 14:18

inferior conj

minimum elong

24° II 39'48 3°10'40

3°10'03

24°**Ⅲ**35′50

evening max el

retrograde

11°**Ⅱ**20'54

15°**Ⅲ**19'55

10260 May 07 11:00

10260 May 14 12:35

19°20'20

10262 Apr 16 18:36

evening set

12°815'36

10261 May 02 10:08

evening set

28°**8**06'38

inferior conj	10262 Apr 22 01:28	5° 8 59'52	2°57'15	evening rise	10263 Feb 11 16:46	5° ¥ 55'45	
minimum elong	10262 Apr 21 23:44	6° 8 05'53	2°56'42	evening rise	10263 Feb 27 12:50	0°Υ	
min. Earth dist.	10262 Apr 22 06:46	5° 8 41'21	0.68470 AU	evening max el	10263 Mar 17 04:26	22° Υ 30'44	22°47'00
	10262 Apr 26 22:20	30° R Υ		retrograde	10263 Mar 27 05:58	28° Y 27'50	
morning rise	10262 Apr 27 04:39	29° Ƴ 45'41		asc. node	10263 Mar 28 12:08	28° Y 20′08	
direct	10262 May 02 06:50	27° Y ′32'34		evening set	10263 Apr 01 02:08	26° Y 27′26	
	10262 May 08 09:07	0°8		inferior conj	10263 Apr 06 10:33	20° Y ′03′24	2°31'07
morning max el	10262 May 12 09:54	3° 8 33'03	22°58'38	minimum elong	10263 Apr 06 08:24	20° Υ 10'51	2°30'28
desc. node	10262 May 14 13:43	5° 8 50'33		min. Earth dist.	10263 Apr 06 03:25	20° Y 28′08	0.68615 AU
	10262 Jun 01 14:34	0°II		morning rise	10263 Apr 11 14:32	13° Y ′54'49	
morning set	10262 Jun 15 20:28	22° I I22'45		direct	10263 Apr 16 03:12	12° Ƴ 02'47	
max. Earth dist.	10262 Jun 20 05:37	29° Ⅱ 46'21	1.39919 AU	morning max el	10263 Apr 24 23:42	17° Ƴ 11'03	21°32'18
	10262 Jun 20 08:47	0ංම		desc. node	10263 May 01 10:35	24° Ƴ 39'11	
					10263 May 05 11:20	0°8	
superior conj	10262 Jun 27 23:49	13° © 32'21	-1°22'47		10263 May 25 16:30	Π°	
minimum elong	10262 Jun 28 05:17	13° © 57'24	1°22'29	morning set	10263 May 26 20:25	1° Ⅱ 50'19	
•	10262 Jul 06 17:48	$0^{\circ}\Omega$		max. Earth dist.	10263 Jun 02 07:11	12° Ⅱ 15'57	1.42099 AU
evening rise	10262 Jul 07 17:05	1° Ω 51'18					
asc. node	10262 Jul 07 13:44	1° Ω 35'16		superior conj	10263 Jun 09 19:44	24° Ⅱ 58'57	-1°51'09
evening max el	10262 Jul 23 18:12	27° Ω 43'14	18°31'11	minimum elong	10263 Jun 10 02:04	25° Ⅲ 26′22	1°51'02
	10262 Jul 26 12:52	0° m)			10263 Jun 12 16:35	0°ම	
retrograde	10262 Jul 31 13:15	1° Mp 37'10		evening rise	10263 Jun 20 22:07	14°5549'46	
evening set	10262 Aug 02 14:52	1° Mp 21'34		asc. node	10263 Jun 24 10:43	21°513'59	
	10262 Aug 05 21:12	30° ₽ Ω			10263 Jun 29 11:33	$0^{\circ}\Omega$	
inferior conj	10262 Aug 10 08:50	26° Ω 51'58	0°02'59	evening max el	10263 Jul 07 04:12	10° £ 31′36	18°08'38
minimum elong	10262 Aug 10 08:56	26° Ω 51'46	0°02'39	retrograde	10263 Jul 14 01:16	14° Ω 01'10	
transit middle	10262 Aug 10 08:56	26° Ω 51'46	0°02'39	evening set	10263 Jul 16 10:33	13° Ω 36′23	
transit begin	10262 Aug 10 05:23	26° Ω 58'40		inferior conj	10263 Jul 23 09:50	8° Ω 45'59	1°26'27
transit end	10262 Aug 10 12:28	26° Ω 44'51		minimum elong	10263 Jul 23 12:17	8° Ω 40'25	1°25'15
desc. node	10262 Aug 10 12:44	26° Ω 44'19		min. Earth dist.	10263 Jul 26 17:11	5° Ω 47'01	0.59953 AU
min. Earth dist.	10262 Aug 13 16:08	24° Ω 18′26	0.57759 AU	desc. node	10263 Jul 28 09:56	4° Ω 23'48	
morning rise	10262 Aug 17 23:28	21° Ω 34'58		morning rise	10263 Jul 30 11:02	2° Ω 58'59	
direct	10262 Aug 23 22:24	20° Ω 04'44		direct	10263 Aug 05 22:32	0° Ω 59'15	
morning max el	10262 Sep 07 06:39	27° Ω 40'54	26°55'28	morning max el	10263 Aug 20 06:28	8° Ω 52'17	27°45'05
	10262 Sep 09 12:52	0° m)			10263 Sep 05 11:00	0° m)	
	10262 Sep 29 16:42	0∘ ⊽		asc. node	10263 Sep 20 10:53	27° m 21'36	
asc. node	10262 Oct 03 14:01	7° ≙ 33'15		morning set	10263 Sep 21 09:55	29° m 21'12	
morning set	10262 Oct 07 03:59	14° ≙ 58'19			10263 Sep 21 17:19	0∘ ⊽	
				max. Earth dist.	10263 Sep 27 15:09	12° ≏ 48'03	1.31527 AU
superior conj	10262 Oct 14 02:03	0°ML08'12	1°27'39				
minimum elong	10262 Oct 14 00:10	29° ≙ 57'46	1°27'39	superior conj	10263 Sep 28 13:31	14° ≏ 52'02	1°13'13
max. Earth dist.	10262 Oct 14 05:45	0°M28'49	1.31540 AU	minimum elong	10263 Sep 28 11:17	14° ≏ 39'40	1°12'58
	10262 Oct 14 00:34	0° M		evening rise	10263 Oct 05 06:52	29° ₽ 39'35	
evening rise	10262 Oct 20 21:40	15°ML03'34			10263 Oct 05 10:40	0° M	
	10262 Oct 28 08:50	0° ∡ ¹			10263 Oct 21 17:57	0° ∡¹	
desc. node	10262 Nov 06 10:38	15° ∡ ¹26′07		desc. node	10263 Oct 24 07:49	3° х¹ 42'43	
	10262 Nov 17 13:15	0°ಕ		evening max el	10263 Nov 02 03:24	14° ∡ 02'43	25°49'00
evening max el	10262 Nov 20 06:50	2° る 45'43	26°54'43	retrograde	10263 Nov 16 01:01	21° 渘 ¹04'09	
retrograde	10262 Dec 04 05:03	9° ප 555'03		evening set	10263 Nov 22 06:21	19° ∡¹ 33'37	
evening set	10262 Dec 11 01:14	7° る 55'05		min. Earth dist.	10263 Nov 26 15:56	16° ∡ 757'41	0.58003 AU
min. Earth dist.	10262 Dec 14 21:18	5° る 16'07	0.60076 AU	inferior conj	10263 Nov 29 17:05	14° ∡ ⁴48'24	-4°58'03
inferior conj	10262 Dec 18 01:18	2° る 41'10	-3°51'46	minimum elong	10263 Nov 30 00:38	14° ∡ ³35′00	4°55'59
minimum elong	10262 Dec 18 08:44	2° る 25'57	3°48'56	morning rise	10263 Dec 07 21:17	10° ∡ ¹26'46	
	10262 Dec 21 13:46	30°R. ✓		direct	10263 Dec 10 03:08	10° ∡ 10'47	
morning rise	10262 Dec 25 18:51	27° ∡ ¹57'00		asc. node	10263 Dec 17 10:54	13° ∡ 13'30	
direct	10262 Dec 27 22:10	27° ∡ ³39'36		morning max el	10263 Dec 18 16:09	14° ∡ 19'24	18°43'55
asc. node	10262 Dec 30 13:49	28° ∡ ¹07'37			10263 Dec 29 10:45	0°ರ	
	10263 Jan 02 20:23	5°0		morning set	10264 Jan 03 21:57	10° ට 23'32	
morning max el	10263 Jan 04 10:08	1° る 23'21	18°06'00				
morning set	10263 Jan 20 01:34	26° ට 09'48		superior conj	10264 Jan 12 13:44	27° ට 07'04	0°57'04
	10263 Jan 22 02:52	0° ≈		minimum elong	10264 Jan 12 16:50	27° ට 21'43	0°57'03
					10264 Jan 14 02:42	0° ≈	
superior conj	10263 Jan 29 20:22	14° ≈ 09′29	0°27'03	max. Earth dist.	10264 Jan 19 19:10	10° ≈ 16′40	1.39664 AU
minimum elong	10263 Jan 29 22:26	14° ≈ 18'41	0°27'05	desc. node	10264 Jan 20 06:49	11° ≈ 07'45	
desc. node	10263 Feb 02 09:56	20° ≈ 25'48		evening rise	10264 Jan 23 19:16	17° ≈ 10′29	
max. Earth dist.	10263 Feb 06 11:21	27° ≈ 21'03	1.41794 AU		10264 Jan 31 16:39	0° ∀	
	10263 Feb 08 01:32	0°) €			10264 Feb 22 01:48	0° Υ	

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evening max el	10264 Feb 27 18:41	6° Y 18'35	24°07'17		10265 Jan 24 00:16	0° ∀	
retrograde	10264 Mar 09 23:01	12° Ƴ 52′27		evening max el	10265 Feb 09 07:54	20° ₭ 07'35	25°23'00
asc. node	10264 Mar 14 09:21	11° Y 21'00		retrograde	10265 Feb 21 11:50	27° ∺ 09'17	
evening set	10264 Mar 15 07:12	10° Ƴ 38′24		evening set	10265 Feb 27 08:13	24°) 44′02	
min. Earth dist.	10264 Mar 19 23:41	5° Ƴ 14'17	0.68331 AU	asc. node	10265 Mar 01 06:34	22° ¥ 51′25	
inferior conj	10264 Mar 20 18:49	4° Ƴ 09'34	1°55'40	min. Earth dist.	10265 Mar 03 17:25	19° ¥ 54'49	0.67630 AU
minimum elong	10264 Mar 20 16:41		1°55'00	inferior conj	10265 Mar 05 00:22	18° ¥ 14'55	1°11'07
minimum clong		30° ₹	1 33 00			18° ¥ 20'05	1°10'39
	10264 Mar 24 02:06			minimum elong	10265 Mar 04 22:46		1 10 39
morning rise	10264 Mar 26 02:13	28° 米 07'55		morning rise	10265 Mar 10 13:43	12°) € 21'34	
direct	10264 Mar 30 01:46	26°) 37′53		direct	10265 Mar 14 01:05	11° 米 12′16	
	10264 Apr 05 18:33	0° Υ		morning max el	10265 Mar 21 01:05		19°14'09
morning max el	10264 Apr 06 20:26	1° Ƴ 01'14	20°16'08		10265 Apr 01 12:40	0 ° Υ	
desc. node	10264 Apr 17 07:25	14° Ƴ 04'39		greatest brilliancy	10265 Apr 02 24:00	2° Ƴ 11'14	-0.7m
	10264 Apr 28 03:47	9° 8		desc. node	10265 Apr 04 04:13	3° Y 57'06	
morning set	10264 May 04 23:08	10° 8 23'28		morning set	10265 Apr 14 00:05	18° Ƴ 59'27	
max. Earth dist.	10264 May 14 16:10	25° 8 38'59	1.43898 AU	C	10265 Apr 21 02:30	0°8	
	10264 May 17 08:57	0°II		max. Earth dist.	10265 Apr 27 07:00	9° 8 40'54	1.45111 AU
	10201111111 17 00.07	<u> </u>		man. Darun dige.	10200 11p1 27 07.00	<i>y</i> 0 .00.	1
superior conj	10264 May 20 15:56	5° Ⅲ 22'42	-2°00'31	superior conj	10265 Apr 30 12:42	14° 8 47'50	-2°11'20
	10264 May 20 19:40	5° I I38'03			10265 Apr 30 09:40	14° 8 35'49	
minimum elong	•		2 09 48	minimum elong	•		2 11 33
evening rise	10264 Jun 02 10:00	27° Ⅱ 00'39			10265 May 09 23:37	0°П	
	10264 Jun 04 03:21	0 \circ		evening rise	10265 May 15 00:06	8° Ⅱ 14'26	
asc. node	10264 Jun 10 07:44	10° © 34'04		asc. node	10265 May 28 04:48	29° Ⅱ 28'59	
evening max el	10264 Jun 19 17:32	23° © 43'59	18°05'26		10265 May 28 13:17	0 \circ	
retrograde	10264 Jun 26 03:55	27° 5 04'33		evening max el	10265 Jun 03 06:55	7° © 12'08	18°20'47
evening set	10264 Jun 28 20:58	26° 5 27'50		retrograde	10265 Jun 09 16:34	10° © 37'49	
inferior conj	10264 Jul 05 04:56	21°518'10	2°24'03	evening set	10265 Jun 12 17:20	9°547'20	
minimum elong	10264 Jul 05 07:41	21° © 11'00	2°22'55	inferior conj	10265 Jun 18 13:59	4° © 20'22	2°59'04
min. Earth dist.	10264 Jul 08 03:04	18°9516'53	0.62209 AU	minimum elong	10265 Jun 18 15:57	4°9514'40	2°58'16
morning rise	10264 Jul 11 16:22	15° © 11'21	0.02207 110	min. Earth dist.	10265 Jun 20 22:30		0.64283 AU
desc. node	10264 Jul 14 07:04	13°5540'09		mm. Earm dist.	10265 Jun 22 10:36	1 3 3707	0.04283 AU
direct	10264 Jul 18 09:18	12°5546'46		morning rise	10265 Jun 24 13:20	28° Ⅱ 03'17	
morning max el	10264 Aug 01 12:34	20° © 48'47	27°56'14	direct	10265 Jul 01 05:01	25° Ⅱ 23'02	
	10264 Aug 09 10:59	0 $^{\circ}$ Ω		desc. node	10265 Jul 01 04:09	25° Ⅱ 23'02	
	10264 Aug 28 12:15	0° m y			10265 Jul 11 05:47	0 \circ \odot	
morning set	10264 Sep 04 10:05	13° m 24'38		morning max el	10265 Jul 14 22:23	3° 5 23'53	27°30'45
asc. node	10264 Sep 06 07:42	17° m 20'01			10265 Aug 03 21:18	$0^{\circ}\Omega$	
max. Earth dist.	10264 Sep 09 21:11	24° m 54'51	1.32004 AU	morning set	10265 Aug 19 02:05	27° Ω 02'31	
	1	•		S	10265 Aug 20 13:48	0° m)	
superior conj	10264 Sep 11 22:52	29° m 25'33	0°53'39	max. Earth dist.	10265 Aug 23 19:58		1.32980 AU
minimum elong	10264 Sep 11 20:47	29° m) 14'05	0°53'13	asc. node	10265 Aug 24 04:32	7° m) 24'25	1.52700710
minimum clong	10264 Sep 12 05:09	0∘ ত	0 33 13	use. Houe	10203 Aug 24 04.32	/ III/2423	
					10265 A 27 04-11	120 m, 42121	0920119
evening rise	10264 Sep 18 18:03	14° △ 18'09		superior conj	10265 Aug 27 04:11	13° m 43'31	0°29'18
	10264 Sep 26 12:24	0°M,		minimum elong	10265 Aug 27 02:48	13° m) 36'08	0°28'51
desc. node	10264 Oct 10 05:02	20°M51'10		evening rise	10265 Sep 03 05:24	28° m 54'17	
evening max el	10264 Oct 13 16:09	24°M31'47	24°18'06		10265 Sep 03 17:47	0∘ ⊽	
	10264 Oct 21 07:29	0° ∡ ¹			10265 Sep 20 22:58	0° M ₊	
retrograde	10264 Oct 27 09:06	1° ∡ ¹23'55		evening max el	10265 Sep 25 03:08	4°M39'21	22°37'39
evening set	10264 Nov 01 11:02	0° ∡ ¹27'00		desc. node	10265 Sep 27 02:15	6° M 26′17	
	10264 Nov 02 14:16	30°RML		retrograde	10265 Oct 08 05:10	11°ML10'30	
min. Earth dist.	10264 Nov 07 03:00	27°M35'15	0.56203 AU	evening set	10265 Oct 11 19:12	10°ML42'17	
inferior conj	10264 Nov 09 12:17	26°M06'30	-5°39'35	min. Earth dist.	10265 Oct 19 10:48	7° M 16'36	0.54989 AU
minimum elong	10264 Nov 09 15:33	26°ML01'26		inferior conj	10265 Oct 20 13:17	6°M38'56	
morning rise	10264 Nov 17 22:10	22°M06'25		minimum elong	10265 Oct 20 08:31	6°M45'44	
direct		21°M48'35		•		2°M51'02	3 34 43
	10264 Nov 20 12:38		10044117	morning rise	10265 Oct 28 23:33		
morning max el	10264 Nov 30 10:58	26°M31'23	19°44'16	direct	10265 Nov 01 04:17	2°M27'41	21 00 5 100
asc. node	10264 Dec 03 07:54	29°M38'17		morning max el	10265 Nov 12 16:21	7°M53'01	21°07'00
	10264 Dec 03 14:59	0° ⊼		asc. node	10265 Nov 20 04:51	17° M .06'14	
morning set	10264 Dec 18 01:47	24° ₹ ¹55'56			10265 Nov 27 15:25	0° ∡ ¹	
	10264 Dec 20 13:44	5°0		morning set	10265 Dec 02 10:17	9° ∡ ³39′06	
superior conj	10264 Dec 25 22:21	10° る 47'08	1°18'45	superior conj	10265 Dec 09 18:00	24° ₹ 757′23	1°32'34
minimum elong	10264 Dec 26 01:10	11º ට 01'01	1°18'55	minimum elong	10265 Dec 09 19:49	25° ∡ ¹06'47	1°32'55
max. Earth dist.	10265 Jan 01 01:19	22° る 32'57	1.37467 AU	-	10265 Dec 12 05:14	ರ°0	
evening rise	10265 Jan 04 18:38	29° る 19'12		max. Earth dist.	10265 Dec 14 10:41	4° ට 26'48	1.35445 AU
Č	10265 Jan 05 03:49	0° ≈		evening rise	10265 Dec 18 11:54	12° る 14'20	
desc. node	10265 Jan 06 03:44	1° ≈ 45'21		desc. node	10265 Dec 24 00:42	22° る 14'29	
2000. HOUG	10200 Juli 00 0J. TT			2000. Hode	-0-00 DOC 27 00.72	(1,72)	

•	2		C	. ,,		ŕ	
	10265 Dec 28 14:57	0° ≈		evening rise	10266 Dec 01 19:20	25° х 46′26	
	10266 Jan 19 03:38	0°) €		Ü	10266 Dec 03 23:48	ರ°0	
evening max el	10266 Jan 22 21:13	3° ¥ 53'43	26°26'58	desc. node	10266 Dec 10 21:42	12° る 30'15	
retrograde	10266 Feb 04 19:33	11°) 11'32			10266 Dec 22 00:56	0°≈	
evening set	10266 Feb 11 03:27	8°) 39′09		evening max el	10267 Jan 05 10:36	17° ≈ 29′01	27°11'51
min. Earth dist.	10266 Feb 15 06:28	4°) €24'19	0.66536 AU	retrograde	10267 Jan 18 21:17	24° ≈ 51'43	
asc. node	10266 Feb 16 03:45	3° ¥ 20′21		evening set	10267 Jan 25 14:52	22° ≈ 17'51	
inferior conj	10266 Feb 17 01:12	2° 升 15′14	0°17'33	min. Earth dist.	10267 Jan 29 12:43	18° ≈ 36'14	0.65080 AU
minimum elong	10266 Feb 17 00:44	2°) 16′40	0°17'36	inferior conj	10267 Jan 31 19:04	16° ≈ 05'40	-0°44'42
	10266 Feb 18 23:18	30°R ≈		minimum elong	10267 Jan 31 20:23	16° ≈ 01'59	0°43'48
morning rise	10266 Feb 22 22:55	26° ≈ 32'01		asc. node	10267 Feb 03 00:55	13° ≈ 41'53	
direct	10266 Feb 25 23:32	25° ≈ 40'35		morning rise	10267 Feb 07 03:24	10° ≈ 34'56	
morning max el	10266 Mar 04 12:31	29° ≈ 11'01	18°28'12	direct	10267 Feb 09 18:59	9° ≈ 57'45	
	10266 Mar 05 07:41	0° ∀		morning max el	10267 Feb 16 04:30	13° ≈ 19'19	17°59'06
desc. node	10266 Mar 22 01:00	24° 米 09′06			10267 Feb 28 00:54	0° ∀	
morning set	10266 Mar 24 21:27	28°) (40′05		morning set	10267 Mar 06 00:14	9°) (49'04	
	10266 Mar 25 17:38	0° Ƴ		desc. node	10267 Mar 08 21:48	14°) €35'23	
	10066 4 00 10 21	22000 42122	1050151		10267 Mar 18 10:15	0 ° Υ	
superior conj	10266 Apr 09 19:31	23° Y 42'23			102(7)// 20 0(10	200055112	1017127
minimum elong	10266 Apr 09 10:33	23° Y 07'21 24° Y 05'24		superior conj	10267 Mar 20 06:19	2° Υ 55'12 2° Υ 21'55	
max. Earth dist.	10266 Apr 10 01:24	0° 8	1.45627 AU	minimum elong max. Earth dist.	10267 Mar 19 21:56	2° γ 21°55 8° γ ′38'05	
evening rise	10266 Apr 13 20:06	18° 8 28'46			10267 Mar 23 21:14	28°Υ00'59	1.45403 AU
evening rise	10266 Apr 25 14:11 10266 May 02 21:13	0°Ⅱ		evening rise	10267 Apr 05 08:46 10267 Apr 06 15:43	0° 8	
greatest brilliancy	10266 May 04 22:08	0 П 3°П11'17	0.8m	greatest brilliancy	10267 Apr 00 13:43 10267 Apr 19 07:52	19° 8 12'49	-0.6m
asc. node	10266 May 15 01:54	17° Ⅱ 49'43	-0.8111	greatest offinality	10267 Apr 19 07:52 10267 Apr 27 01:57	0°Ⅱ	-0.0111
evening max el	10266 May 17 17:41	20° II 48'52	18°53'53	evening max el	10267 Apr 30 23:56		19°43'20
retrograde	10266 May 24 11:14	24° II 32'19	10 33 33	asc. node	10267 May 01 23:02	5° П 26'02	17 43 20
evening set	10266 May 27 20:05	23° II 26'51		retrograde	10267 May 08 09:04	8° П 42'46	
inferior conj	10266 Jun 02 09:07	17° I I44'14	3°15'47	evening set	10267 May 12 02:37	7° П 21'39	
minimum elong	10266 Jun 02 09:54	17° I I41'46	3°15'16	inferior conj	10267 May 17 11:15	1° ∏ 24'42	3°17'50
min. Earth dist.	10266 Jun 04 02:36	15° Ⅱ 33'48	0.66022 AU	minimum elong	10267 May 17 10:52	1° ∏ 25'58	
morning rise	10266 Jun 07 23:05	11° Ⅱ 23'44		min. Earth dist.	10267 May 18 13:55	29° 8 55'47	
direct	10266 Jun 14 08:09	8° Ⅱ 39'10			10267 May 18 12:38	30°R ∀	
desc. node	10266 Jun 18 01:12	9° Ⅱ 26′08		morning rise	10267 May 22 18:46	25° 8 05'03	
morning max el	10266 Jun 27 09:03	16° Ⅱ 24'42	26°35'03	direct	10267 May 28 17:25	22° 8 26'49	
	10266 Jul 08 14:55	0 \circ \odot		desc. node	10267 Jun 04 22:13	25° 8 22'28	
	10266 Jul 27 18:07	$0^{\circ}\Omega$		morning max el	10267 Jun 09 18:57	29° 8 40'51	25°18'12
morning set	10266 Aug 02 06:42	10° Ω 05′27			10267 Jun 10 02:26	Π $^{\circ}0$	
max. Earth dist.	10266 Aug 06 08:25	17° Ω 57'58	1.34455 AU		10267 Jul 02 11:33	0 \circ \odot	
				morning set	10267 Jul 15 19:50	22° © 22'54	
superior conj	10266 Aug 11 03:05	27° Ω 38'59	0°00'42	max. Earth dist.	10267 Jul 19 10:48	29° © 01'41	1.36381 AU
minimum elong	10266 Aug 11 03:03	27° Ω 38'50	0°00'25		10267 Jul 19 23:15	0 $^{\circ}$ Ω	
behind sun begin	10266 Aug 10 21:14	27° Ω 08'45					
behind sun end	10266 Aug 11 08:53	28° Ω 08'59		superior conj	10267 Jul 25 16:45	11° Ω 04'45	
asc. node	10266 Aug 11 01:23	27° Ω 30′08		minimum elong	10267 Jul 25 18:42	11°Ω14'25	0°31'06
	10266 Aug 12 06:14	0° m)		asc. node	10267 Jul 28 22:15	17° Ω 33'34	
evening rise	10266 Aug 18 14:53	13° m 21'42		evening rise	10267 Aug 02 20:22	27° Ω 34'41	
	10266 Aug 27 02:55	0° 亞	21004116		10267 Aug 04 01:07	0° Mp	10040117
evening max el	10266 Sep 06 21:48	15° Ω 02'37	21°04'16	evening max el	10267 Aug 20 05:40	26°№06'27 0° <u>മ</u>	19°48'16
desc. node	10266 Sep 13 23:28	19° ♀ 57'53 20° ♀ 53'49		rotro ara da	10267 Aug 25 12:42 10267 Aug 30 08:28	1° £ 07'33	
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min. Earth dist.	10266 Sep 30 18:46	16° ⊆ 26'22	0.54624 AU	inferior conj	10267 Sep	26° Mp 56'21	-2°50'05
morning rise	10266 Oct 08 13:55	10 — 20 22 12° — 51'29	0.54024 AU	minimum elong	10267 Sep 10 03:10 10267 Sep 09 19:41	27° Mp 08'01	2°47'25
direct	10266 Oct 12 12:28	12° ⊆ 18'06		min. Earth dist.	10267 Sep 03 13:41 10267 Sep 12 04:55	25° Mp 40'07	0.55213 AU
morning max el	10266 Oct 25 09:39		22°47'42	morning rise	10267 Sep 12 04:33	22° mp 37'28	0.55215 AU
	10266 Nov 03 17:51	0°M	· · ·-	direct	10267 Sep 23 02:04	21° Mp 48'00	
asc. node	10266 Nov 07 01:46	5°M23'04		morning max el	10267 Oct 06 21:07	28° mp 37'53	24°34'53
morning set	10266 Nov 16 21:21	24°M27'10			10267 Oct 08 06:28	0° ರ	
<i>5</i>	10266 Nov 19 11:39	0° ∡ ¹		asc. node	10267 Oct 24 22:40	24° Ω 16'37	
					10267 Oct 27 21:55	0°M	
superior conj	10266 Nov 23 21:16	9° ∡ "28′01	1°39'12	morning set	10267 Nov 01 09:09	9° ™ 14'34	
minimum elong	10266 Nov 23 21:52	9° ∡ ³31'15	1°39'37				
max. Earth dist.	10266 Nov 27 03:35	16° ∡ ¹21'10	1.33772 AU	superior conj	10267 Nov 08 05:27	24°M10'32	1°39'21

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Morning set 10270 May 17 17:28 22°85313 desc. node 10271 Apr 12 10:43 9°Y4916 10°Y6548 0.6m 10270 May 22 05:28 0°H regretest brilliancy 10271 Apr 13 06:44 11°Y05'48 0.6m 10270 May 25 10:48 5°H11'40 1.42920 AU morning set 10271 Apr 25 19:52 0°8 1.44498 AU 10270 Jun 01 11:39 16°H5209 -2°00'34 morning set 10271 May 07 07 2:09 18°85205 1.44498 AU 10270 Jun 09 01:39 0°S 17°H16'37 2°00'37 minimum elong 10270 Jun 13 06:21 7°95274 minimum elong 10270 Jun 13 06:21 7°95274 minimum elong 10271 May 12 0:18 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 May 12 0:18 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 May 12 0:18 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 May 12 0:18 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 May 12 0:18 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 May 12 0:18 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 13:09 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 10:49 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 10:49 16°85007 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 10:49 16°8507 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 10:49 16°8507 minimum elong 10271 Jun 10 11'53 0°H 10270 Jun 18 10:49 16°8507 minimum elong 10271 Jun 10 11'53 0°H 10271 Ju					Ü			
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					•			
morning max el 10270 Aug 12 09:19 1° Ω 12'33 27° 54'26 morning max el 10271 Jul 25 17:05 13° 525'55 27° 49'27 10270 Sep 02 07:35 0° III 10271 Aug 08 00:21 0° Ω morning set 10270 Sep 14 07:58 22° III 42'58 10271 Aug 25 20:20 0° III	uirect							
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		-				•		
asc. node 102/0 Sep 14 15:14 25*110/1014 morning set 102/1 Aug 29 04:59 6*110/36*27	•	-	=			_		
	asc. node	102/0 Sep 14 13:14	25° IID 10'14		morning set	102/1 Aug 29 04:59	6~110/36/27	

asc. node max. Earth dist.	10271 Sep 01 10:04 10271 Sep 03 08:27	13° Mp 11'57 17° Mp 16'56	1.32358 AU	asc. node	10272 Aug 16 16:42 10272 Aug 18 06:53	0° m) 3° m) 17'24	
superior conj	10271 Sep 05 22:55	22° m 53'17	0°43'52	superior conj	10272 Aug 20 01:48	7° m 02'35	0°17'39
minimum elong	10271 Sep 05 21:03	22° m/43'10	0°43'26	minimum elong	10272 Aug 20 00:55	6° Mp 57'55	0°17'15
	10271 Sep 09 05:07	0° ჲ 7° ჲ 51'40		evening rise	10272 Aug 27 06:55	22°Mp25'11 0° ⊆	
evening rise	10271 Sep 12 20:06 10271 Sep 24 06:32	0°M		evening max el	10272 Aug 30 22:51 10272 Sep 17 00:17		21°56'14
desc. node	10271 Scp 24 00:32 10271 Oct 05 07:27	15°ML02'11		desc. node	10272 Sep 17 00:17 10272 Sep 21 04:42	20 ⊆ 21 20 29° ⊆ 48'56	21 30 14
evening max el	10271 Oct 06 11:07		23°35'34	dese. Hode	10272 Sep 21 01:12 10272 Sep 21 11:26	0°M	
retrograde	10271 Oct 19 23:22	22°M56'03		retrograde	10272 Sep 29 14:38	2°M37'36	
evening set	10271 Oct 24 10:18	22°M12'50		evening set	10272 Oct 02 14:50	2°M17'21	
min. Earth dist.	10271 Oct 30 21:14	19°ML08'38	0.55595 AU		10272 Oct 08 12:25	30° ŖΩ	
inferior conj	10271 Nov 01 18:53	18° M 01'04	-5°44'35	min. Earth dist.	10272 Oct 11 04:24	28° ჲ 33'02	0.54721 AU
minimum elong	10271 Nov 01 18:54	18°ML01'02	5°44'15	inferior conj	10272 Oct 11 14:33	28° ≏ 18'49	
morning rise	10271 Nov 10 05:21	14° M ₊07'28		minimum elong	10272 Oct 11 06:49	28° Ω 29'39	5°14'42
direct	10271 Nov 13 01:26	13°M47'37	2001 (150	morning rise	10272 Oct 20 00:12	24° £ 31'27	
morning max el	10271 Nov 23 15:38 10271 Nov 28 10:19	18°M48'05	20°16'50	direct	10272 Oct 23 12:26	24° £ 04'24 29° £ 48'16	21040112
asc. node	10271 Nov 28 10:19 10271 Dec 02 06:07	24°M17'44 0° √		morning max el	10272 Nov 04 15:18 10272 Nov 04 20:17	29° 32 48°18 0° M	21-48-12
morning set	10271 Dec 02 00:07 10271 Dec 12 02:08	18° ∡ '31'18		asc. node	10272 Nov 04 20:17 10272 Nov 14 07:16	12°ML08'12	
morning sec	10271 Dec 17 16:02	0°る		use. Houe	10272 Nov 23 21:58	0° ₹	
		• •		morning set	10272 Nov 25 11:59	3° ҂ 17'33	
superior conj	10271 Dec 19 16:31	4° る 06'20	1°25'32	C			
minimum elong	10271 Dec 19 18:58	4° る 18'39	1°25'46	superior conj	10272 Dec 02 15:46	18° ∡ ¹26′22	1°36'13
max. Earth dist.	10271 Dec 25 05:16	14° る 58'27	1.36574 AU	minimum elong	10272 Dec 02 17:05	18° ∡ ³33'16	1°36'36
evening rise	10271 Dec 29 00:47	22° る 04'53		max. Earth dist.	10272 Dec 06 17:50	26° ₹ 51'39	1.34685 AU
desc. node	10272 Jan 01 06:04	27° る 49'48			10272 Dec 08 07:30	0°ರ	
	10272 Jan 02 12:04	0° ≈		evening rise	10272 Dec 11 00:31	5°る16'41	
avanina may al	10272 Jan 22 04:32 10272 Feb 02 14:25	0° ∺ 13° ∺ 21'16	25952100	desc. node	10272 Dec 18 03:03 10272 Dec 25 06:34	18°る13'54 0°≈	
evening max el retrograde	10272 Feb 02 14:25 10272 Feb 15 02:45	20° ∺ 30′30	25*52.09	evening max el	10272 Dec 25 06:34 10273 Jan 15 03:52	0°≈ 27°≈03'53	26°48'46
evening set	10272 Feb 21 04:10	18° X 01'54		evening max er	10273 Jan 18 11:25	0° \	20 40 40
asc. node	10272 Feb 24 09:03	14° ¥ 45'18		retrograde	10273 Jan 28 07:49	4°) €24'27	
min. Earth dist.	10272 Feb 25 10:44	13° ¥ 27'18	0.67215 AU	evening set	10273 Feb 03 20:20	1°) € 50'30	
inferior conj	10272 Feb 26 22:36	11°) 34′29	0°49'32		10273 Feb 05 21:06	30° R ≈	
minimum elong	10272 Feb 26 21:24	11° ¥ 38'16	0°49'14	min. Earth dist.	10273 Feb 07 21:01	27° ≈ 50'17	0.65964 AU
morning rise	10272 Mar 03 15:12	5° ¥ 45′03		inferior conj	10273 Feb 09 20:45	25° ≈ 31′02	-0°07'50
direct	10272 Mar 06 21:55	4°) 43'33		minimum elong	10273 Feb 09 20:58	25° ≈ 30′26	
morning max el	10272 Mar 13 16:07	8° ¥ 23'47	18°52'34	transit middle	10273 Feb 09 20:58	25°≈30'26	0°07'27
desc. node	10272 Mar 29 06:31	29° ¥ 51′08 0° Ƴ		transit begin	10273 Feb 09 18:21	25°≈38'04	
morning set	10272 Mar 29 08:49 10272 Apr 04 23:54	0° γ 10° Υ 16'55		transit end asc. node	10273 Feb 09 23:35 10273 Feb 10 06:15	25°≈22'48 25°≈03'22	
morning set	10272 Apr 04 25:34 10272 Apr 17 15:22	0° 8		morning rise	10273 Feb 15 00:15	19°≈53'00	
max. Earth dist.	10272 Apr 19 15:15	3° 8 07'29	1.45431 AU	direct	10273 Feb 18 19:23	19° ≈ 08'00	
	1			morning max el	10273 Feb 25 05:50	22° ≈ 33'00	18°13'49
superior conj	10272 Apr 21 10:29	5° 8 57'06	-2°05'57	-	10273 Mar 03 06:08	0°) €	
minimum elong	10272 Apr 21 04:21	5° 8 33'02	2°05'55	morning set	10273 Mar 16 09:40	20°) 35′26	
evening rise	10272 May 06 13:14	0° Ⅱ 02'52		desc. node	10273 Mar 16 03:19	20°) €09'54	
	10272 May 06 12:31	0°П			10273 Mar 22 06:32	0° Ƴ	
asc. node	10272 May 22 07:14	24° Ⅱ 42'06			10272 M 21 16 20	1.400052112	1020120
evening max el	10272 May 26 15:15 10272 May 26 22:57	0° © 0° © 19'34	18°32'45	superior conj minimum elong	10273 Mar 31 16:38 10273 Mar 31 07:05	14° Υ 53'13 14° Υ 15'49	
retrograde	10272 Jun 02 10:46	3°950'59	16 32 43	max. Earth dist.	10273 Mai 31 07.03 10273 Apr 02 11:03		1.45623 AU
evening set	10272 Jun 05 15:02	2°954'02		max. Dartii dist.	10273 Apr 10 08:54	0°8	1.43023710
	10272 Jun 09 00:35	30°RⅡ		evening rise	10273 Apr 16 18:05	9° 8 57'03	
inferior conj	10272 Jun 11 08:01		3°08'07	greatest brilliancy	10273 Apr 28 04:55	27° 8 40'51	-0.7m
minimum elong	10272 Jun 11 09:29	27° Ⅱ 15'37	3°07'29	-	10273 Apr 29 17:50	$\Pi^{\circ}0$	
min. Earth dist.	10272 Jun 13 10:05	24° Ⅱ 49'42	0.65078 AU	asc. node	10273 May 09 04:21	12° Ⅱ 45'52	
morning rise	10272 Jun 17 03:03	21° Ⅱ 01'07		evening max el	10273 May 10 07:58	13° ∏ 59'01	19°12'57
direct	10272 Jun 23 16:30	18° Ⅱ 17'55		retrograde	10273 May 17 07:16	17° Ⅱ 53'47	
desc. node	10272 Jun 25 06:34	18° Ⅱ 26'27	27010114	evening set	10273 May 20 19:44	16° Ⅱ 41'36	2010117
morning max el	10272 Jul 07 03:28 10272 Jul 10 15:20	26° Ⅱ 13'09 0° ⑤	27°10'14	inferior conj minimum elong	10273 May 26 06:30 10273 May 26 06:47	10° П 52'25 10° П 51'32	3°18'16 3°17'49
	10272 Jul 10 15:20 10272 Jul 31 14:20	0°€ 0°€		minimum elong min. Earth dist.	10273 May 26 06:47 10273 May 27 17:30	10°Щ51′32 8°Щ59′09	0.66634 AU
morning set	10272 Jul 31 14:20 10272 Aug 11 16:33	20°Ω00'26		morning rise	10273 May 27 17:30 10273 May 31 17:22	6 П 3909 4° П 31'48	0.00037 AU
max. Earth dist.	10272 Aug 16 03:15	28° Ω 51'10	1.33552 AU	direct	10273 Jun 06 22:12	1° ∏ 49'04	
	<u> </u>						

desc. node	10273 Jun 12 03:37	3° Ⅲ 22′00		morning rise	10274 May 15 16:27	18° 8 19'58	
morning max el	10273 Jun 19 14:12	9° Ⅱ 23'08	26°04'28	direct	10274 May 21 09:47	15° 8 47'06	
	10273 Jul 05 19:29	0 \circ \odot		desc. node	10274 May 30 00:37	19° 8 57'20	
	10273 Jul 24 02:58	$0^{\circ}\Omega$		morning max el	10274 Jun 01 23:55	22° 8 44'22	24°41'38
morning set	10273 Jul 25 15:12	2° Ω 46′15			10274 Jun 08 09:03	$\Pi^{\circ}0$	
max. Earth dist.	10273 Jul 29 11:36	10° Ω 03'15	1.35228 AU		10274 Jun 29 03:13	0 \circ \odot	
				morning set	10274 Jul 07 20:21	14° 5 341'17	
superior conj	10273 Aug 03 21:12	20° Ω 46'49	-0°12'28	max. Earth dist.	10274 Jul 11 10:49	21° 5 08'33	1.37300 AU
minimum elong	10273 Aug 03 21:56	20° Ω 50'37	0°12'39		10274 Jul 16 04:38	$0^{\circ}\Omega$	
behind sun begin	10273 Aug 03 18:10	20° Ω 31′26					
behind sun end	10273 Aug 04 01:43	21° Ω 09'49		superior conj	10274 Jul 18 05:55	3° Ω 57'29	-0°45'07
asc. node	10273 Aug 05 03:44	23° Ω 22'58		minimum elong	10274 Jul 18 08:50	4° Ω 11'41	0°45'01
	10273 Aug 08 08:29	0° m)		asc. node	10274 Jul 23 00:38	13° Ω 24'18	
evening rise	10273 Aug 11 15:04	6° Mp 48'00		evening rise	10274 Jul 26 18:06	20° Ω 52'52	
3	10273 Aug 24 07:29	0∘ <u>⊽</u>		8 21	10274 Jul 31 09:45	0° m)	
evening max el	10273 Aug 30 00:08	6° ₽ 59'55	20°29'24	evening max el	10274 Aug 12 13:48	18° m) 23'48	19°22'15
desc. node	10273 Sep 08 01:57	12° ₽ 20'02	20 27 2 .	retrograde	10274 Aug 21 23:49	23° m) 04'15	1, 22 10
retrograde	10273 Sep 10 02:54	12° ⊆ 30'52		evening set	10274 Aug 23 19:56	22° m 54'19	
evening set	10273 Sep 10 02:34 10273 Sep 12 04:26	12° ⊆ 20'16		desc. node	10274 Aug 25 23:13	22° m) 19'36	
inferior conj	10273 Sep 12 04:20 10273 Sep 21 07:22	8° <u>2</u> 23'22	-3°53'24	inferior conj	10274 Rug 23 23:13 10274 Sep 01 11:34	18° m) 46'43	-2°01'09
minimum elong	10273 Sep 21 07:22 10273 Sep 20 21:46	8° ⊆ 23′22		minimum elong	10274 Sep 01 11:34 10274 Sep 01 06:10	18° m) 55'32	
min. Earth dist.	10273 Sep 20 21:40 10273 Sep 22 13:02	ა <u>—</u> 3718 7° Ω 40'18	0.54759 AU	min. Earth dist.	10274 Sep 04 01:08	17° My 06'36	0.55732 AU
	1	7 <u>≈</u> 40 18 4° <u>≈</u> 21'10	0.34739 AU		•		0.55752 AU
morning rise	10273 Sep 29 14:40			morning rise	10274 Sep 09 13:44	14° Mp 12'17	
direct	10273 Oct 03 21:01	3° <u>₽</u> 42'05	22022120	direct	10274 Sep 14 15:48	13° To 13'29	25010117
morning max el	10273 Oct 17 05:23	10° № 10'00	23°33'29	morning max el	10274 Sep 28 17:00	20° m 18'53	25°18'17
	10273 Oct 31 18:44	0°M,			10274 Oct 07 00:21	0° ⊽	
asc. node	10273 Nov 01 04:12	0°M41'57		asc. node	10274 Oct 19 01:05	19° Ω 47'54	
morning set	10273 Nov 09 23:35	18°M 06'03			10274 Oct 24 02:48	0°M	
	10273 Nov 15 11:39	0° ∡ ¹		morning set	10274 Oct 25 11:12	2°M51'45	
	10272 N 16 21-29	20.702107	1940102		10274 Nov. 01, 07.07	170 m 40102	1027125
superior conj	10273 Nov 16 21:28	3° ∡ '03'07		superior conj	10274 Nov 01 07:07	17°M49'02	
minimum elong	10273 Nov 16 21:33	3°×703'38	1°40'26	minimum elong	10274 Nov 01 06:08	17°M43'37	
max. Earth dist.	10273 Nov 19 14:12	8° 🗷 49'43	1.33189 AU	max. Earth dist.	10274 Nov 02 17:53	21°M00'03	1.32145 AU
evening rise	10273 Nov 24 12:52	19° ∡ '01'08			10274 Nov 06 22:13	0° ₹	
	10273 Nov 30 06:25	0°る		evening rise	10274 Nov 08 10:37	3° ∡ 109'54	
desc. node	10273 Dec 05 00:04	8° る 21'45		desc. node	10274 Nov 21 21:10	28° ∡ ¹06′26	
	10273 Dec 19 10:37	0° ≈			10274 Nov 23 01:10	0° ろ	
evening max el	10273 Dec 28 16:35	10° ≈ 29'28	27°23'17	evening max el	10274 Dec 11 02:55	23° る 26'44	27°29'13
retrograde	10274 Jan 11 06:47	17°≈52'13		_	10274 Dec 20 20:01	0° ≈	
evening set	10274 Jan 18 03:40	15° ≈ 19′28		retrograde	10274 Dec 24 22:44	0° ≈ 44'51	
min. Earth dist.	10274 Jan 21 23:31		0.64361 AU		10274 Dec 28 21:23	30°Ŗ⋜	
inferior conj	10274 Jan 24 10:48	9° ≈ 14'15		evening set	10274 Dec 31 23:24	28° る 21'53	
minimum elong	10274 Jan 24 13:05		1°12'14	min. Earth dist.	10275 Jan 04 16:33	25° る 21'47	0.62469 AU
asc. node	10274 Jan 28 03:27	5° ≈ 38'52		inferior conj	10275 Jan 07 13:52	22° ろ 37'28	
morning rise	10274 Jan 31 00:18	3° ≈ 50′08		minimum elong	10275 Jan 07 18:41	22° る 25'59	2°23'34
direct	10274 Feb 02 12:35	3° ≈ 17'57		morning rise	10275 Jan 14 16:22	17° る 30'06	
morning max el	10274 Feb 08 22:56	6° ≈ 38'47	17°51'59	asc. node	10275 Jan 15 00:38	17° る 23'38	
	10274 Feb 24 15:24	0° ∀		direct	10275 Jan 16 22:37	17° る 06'52	
morning set	10274 Feb 26 00:11	2° ∺ 18′01		morning max el	10275 Jan 23 16:18	20° る 33'10	17°47'42
desc. node	10274 Mar 03 00:06	10°) 40′16			10275 Jan 30 18:30	0° ≈	
				morning set	10275 Feb 08 14:15	15° ≈ 08'30	
superior conj	10274 Mar 11 10:21	24° ∺ 27'06	-0°59'50		10275 Feb 17 02:29	0° ℋ	
minimum elong	10274 Mar 11 03:47	24° ₭ 00'41	0°58'52	desc. node	10275 Feb 17 20:53	1° ∺ 18′28	
	10274 Mar 14 21:46	0° Y					
max. Earth dist.	10274 Mar 16 06:20	2° Y 08'50	1.45075 AU	superior conj	10275 Feb 20 03:18	5°) €08'30	-0°17'00
evening rise	10274 Mar 27 07:40	19° Ƴ 19'52		minimum elong	10275 Feb 20 01:38	5° ₩ 01'31	0°16'31
	10274 Apr 03 07:49	9° 8		max. Earth dist.	10275 Feb 26 22:58	16°) €21'33	1.43857 AU
greatest brilliancy	10274 Apr 11 07:54	11° 8 53'57	-0.6m	evening rise	10275 Mar 06 20:48	28° ¥ 50'40	
evening max el	10274 Apr 23 11:48	27° 8 40'40	20°08'53		10275 Mar 07 14:45	0° Y	
asc. node	10274 Apr 26 01:32	29° 8 59'19			10275 Mar 28 01:41	0°8	
	10274 Apr 26 01:53	$\Pi^{\circ}0$		evening max el	10275 Apr 06 10:08	11° 8 24'01	21°17'38
retrograde	10274 May 01 05:51	2° Ⅱ 09′10		asc. node	10275 Apr 12 22:45	16° 8 08'20	
evening set	10274 May 05 03:15	0° Ⅱ 41'28		retrograde	10275 Apr 15 04:19	16° 8 32'50	
-	10274 May 05 23:14	30° ₹ 8		evening set	10275 Apr 19 11:44	14° 8 49'35	
inferior conj	10274 May 10 10:49	24° 8 38'46	3°14'58	inferior conj	10275 Apr 24 18:32	8° 8 35'28	3°00'21
minimum elong	10274 May 10 10:00	24° 8 41'32		minimum elong	10275 Apr 24 16:54	8° 8 41'09	2°59'49
min. Earth dist.	10274 May 11 07:27		0.67751 AU	min. Earth dist.	10275 Apr 25 01:47	8° 8 10'17	0.68415 AU
	J		-		1	- '	-

morning rise	10275 Apr 29 21:51	2° 8 20'39		evening set	10276 Apr 02 19:30	29° Ƴ 01'14	
direct	10275 May 05 02:05	0° 8 04'34		inferior conj	10276 Apr 08 03:34	22° Ƴ 38'14	2°35'42
morning max el	10275 May 15 09:41	6° 8 12'32	23°11'56	minimum elong	10276 Apr 08 01:28	22° Ƴ 45'34	2°35'02
desc. node	10275 May 16 21:33	7° 8 46'19		min. Earth dist.	10276 Apr 07 22:13	22° Y 56′50	0.68627 AU
	10275 Jun 02 19:29	Π $^{\circ}0$		morning rise	10276 Apr 13 07:17	16° Ƴ 28'53	
morning set	10275 Jun 19 02:47	25° Ⅲ 32′29		direct	10276 Apr 17 21:57	14° Ƴ 33'40	
	10275 Jun 21 18:08	0 \circ \odot		morning max el	10276 Apr 26 22:45	19° Ƴ 49'12	21°44'36
max. Earth dist.	10275 Jun 23 07:18	2° © 39'42	1.39581 AU	desc. node	10276 May 02 18:24	26° Y 28′16	
					10276 May 05 11:56	9° 8	
superior conj	10275 Jul 01 00:08	16° © 25'58	-1°18'00		10276 May 25 23:58	Π $^{\circ}0$	
minimum elong	10275 Jul 01 05:19	16° © 49'54	1°17'42	morning set	10276 May 29 06:40	5° Ⅱ 10'48	
· ·	10275 Jul 08 04:25	$\Omega^{\circ}\Omega$		max. Earth dist.	10276 Jun 04 08:10	15° Ⅱ 02'16	1.41792 AU
asc. node	10275 Jul 09 21:33	3° Ω 17'52					
evening rise	10275 Jul 10 13:05	4° £ 32'33		superior conj	10276 Jun 11 23:17	28° Ⅱ 01'27	-1°47'21
	10275 Jul 26 02:31	0° m		minimum elong	10276 Jun 12 05:39	28° Ⅱ 29'17	
evening max el	10275 Jul 26 15:11	0° Mp 32'17	18°36'14	g	10276 Jun 13 02:19	0ಂತ	1 1, 11
retrograde	10275 Aug 03 14:23	4° Mp 31'10	10 30 1 1	evening rise	10276 Jun 22 20:16	17° © 37'33	
evening set	10275 Aug 05 15:03	4° m) 16'33		asc. node	10276 Jun 25 18:32	22° © 59'15	
desc. node	10275 Aug 03 13:03 10275 Aug 12 20:28	0°M)19'11		asc. node	10276 Jun 29 17:00	0°Ω	
inferior conj	10275 Aug 12 20:28 10275 Aug 13 11:56	29° Ω 49'55	0011152	evening max el	10276 Jul 09 00:21	13° Ω 16'24	18°10'44
	=	29° € 14933		•		16°Ω48'47	18 10 44
minimum elong	10275 Aug 13 11:27			retrograde	10276 Jul 15 24:00		
transit middle	10275 Aug 13 11:27	29° Ω 50'49	0°11'58	evening set	10276 Jul 18 08:04	16° Ω 25'36	1015120
transit begin	10275 Aug 13 09:02	29° £ 55′26		inferior conj	10276 Jul 25 09:56	11° Ω 38'05	1°15'30
transit end	10275 Aug 13 13:53	29° Ω 46′11		minimum elong	10276 Jul 25 12:11	11° Ω 33′05	1°14'21
	10275 Aug 13 06:37	30°R Ω		min. Earth dist.	10276 Jul 28 17:54	8° Ω 41'31	0.59611 AU
min. Earth dist.	10275 Aug 16 18:05	27° Ω 22'11	0.57457 AU	desc. node	10276 Jul 29 17:39	7° Ω 52'53	
morning rise	10275 Aug 21 04:22	24° Ω 38′20		morning rise	10276 Aug 01 13:12	5° Ω 54'50	
direct	10275 Aug 27 00:56	23° Ω 12'36		direct	10276 Aug 07 23:10	3° Ω 59'31	
	10275 Sep 09 13:42	0° mp		morning max el	10276 Aug 22 07:34	11° Ω 50′29	27°40'10
morning max el	10275 Sep 10 08:42	0° Mp 45′03	26°45'07		10276 Sep 05 13:50	0° m ∕	
	10275 Oct 01 01:21	0∘ ⊽		asc. node	10276 Sep 21 18:44	29° m 03'40	
asc. node	10275 Oct 05 21:55	9° ≏ 17'21			10276 Sep 22 05:39	0∘ ⊽	
morning set	10275 Oct 09 21:08	17° ≏ 29'34		morning set	10276 Sep 23 03:42	1° ≙ 54'55	
	10275 Oct 15 14:24	0° M ,		max. Earth dist.	10276 Sep 29 11:54	15° ≏ 40'06	1.31499 AU
superior conj	10275 Oct 16 18:40	2°M37'11	1°29'23	superior conj	10276 Sep 30 06:15	17° ≏ 21'59	1°15'45
minimum elong	10275 Oct 16 16:52	2°M27'15	1°29'26	minimum elong	10276 Sep 30 04:02	17° ≏ 09'44	1°15'32
max. Earth dist.	10275 Oct 17 02:18	3°M19'42	1.31581 AU		10276 Oct 05 23:34	0° M	
evening rise	10275 Oct 23 14:58	17°M35'00		evening rise	10276 Oct 06 23:41	2°M10'00	
	10275 Oct 29 18:34	0°⊀			10276 Oct 21 19:32	0° ∡ ¹	
desc. node	10275 Nov 08 18:18	17° √ 17'51		desc. node	10276 Oct 25 15:29	5° х 42′55	
	10275 Nov 18 00:22	0°る		evening max el	10276 Nov 04 05:58	17° ∡ ¹06'18	26°00'37
evening max el	10275 Nov 23 08:18	5° ರ 42'13	27°01'49	retrograde	10276 Nov 18 03:41	24° ₹ '08'58	
retrograde	10275 Dec 07 06:13	12° る 52'21		evening set	10276 Nov 24 12:08	22° ҂ ³33'26	
evening set	10275 Dec 14 03:44	10° ප් 48'43		min. Earth dist.	10276 Nov 28 18:42	19° ₹ ′58'19	0.58304 AU
min. Earth dist.	10275 Dec 17 22:52	8° පි 08'01	0.60395 AU	inferior conj	10276 Dec 01 21:05	17° ∡ ¹44'07	-4°49'08
inferior conj	10275 Dec 21 02:28	5° る 30'45	-3°40'41	minimum elong	10276 Dec 02 04:51	17° ∡ ³30′02	4°46'54
minimum elong	10275 Dec 21 09:39	5° る 15'45	3°37'50	morning rise	10276 Dec 09 24:00	13° √ 19'14	
morning rise	10275 Dec 28 18:10	0° る 43'17		direct	10276 Dec 12 05:08	13° ∡ 03'16	
direct	10275 Dec 30 21:37	0°る25'20		asc. node	10276 Dec 18 18:46	15° ∡ ³33'53	
asc. node	10276 Jan 01 21:45	0°る41'42		morning max el	10276 Dec 20 13:47	17° ₹ 07'21	18°36'55
morning max el	10276 Jan 07 06:29	4° ප 06'01	18°02'06	morning max or	10276 Dec 29 18:10	0°る	10 30 33
morning set	10276 Jan 22 21:22	28° ප් 46'20	10 02 00	morning set	10277 Jan 05 16:18	12° පි 56'02	
morning set	10276 Jan 23 13:15	0°≈		morning set	10277 3411 03 10.10	12 030 02	
	102/0 Jan 25 15.15	0 ~		superior conj	10277 Jan 14 11:34	29° ♂ 49'19	0°53'01
superior conj	10276 Feb 01 20:56	16°≈59'23	0°21'45	minimum elong	10277 Jan 14 14:38	0°≈03'35	
minimum elong	10276 Feb 01 20:36 10276 Feb 01 22:40	10 ≈39 23 17°≈07'05	0°21'51	mmmum ciong	10277 Jan 14 14:58 10277 Jan 14 13:51	0 ≈03 33 0°≈	0 00 01
e e			0 21 31	J J.			
desc. node	10276 Feb 04 17:41	22°≈00'16 0°¥		desc. node	10277 Jan 21 14:32	12°≈42'17	1 20002 411
more Ed- 3' '	10276 Feb 09 10:40		1 42000 411	max. Earth dist.	10277 Jan 21 19:49	13°≈05'21	1.39993 AU
max. Earth dist.	10276 Feb 09 11:37	0° 米 03′56	1.42098 AU	evening rise	10277 Jan 25 22:34	20°≈07'16	
evening rise	10276 Feb 14 23:23	9° 米 01′26			10277 Feb 01 00:10	0°) €	
	10276 Feb 28 17:28	0° Υ	22025121		10277 Feb 21 22:29	0° Υ	2205512 (
evening max el	10276 Mar 19 03:42	25° Y 08'47	22°35'01	evening max el	10277 Mar 01 18:06	8° Υ 55'44	23°55'24
	10276 Mar 25 07:58	0°8		retrograde	10277 Mar 12 18:36	15° Y 24'54	
retrograde	10276 Mar 29 01:00	0° 8 59'36		asc. node	10277 Mar 16 17:12	14° Y 11'50	
asc. node	10276 Mar 29 19:59	0° 8 56'33		evening set	10277 Mar 18 01:00	13° Y 12'38	
	10276 Apr 01 10:49	30° ₹Ƴ		min. Earth dist.	10277 Mar 22 18:38	7° Ƴ 43'20	0.68401 AU

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min. Earth dist.	10279 Feb 18 02:54	6° ¥ 57′03	0.66721 AU	retrograde	10280 Jan 21 19:20	27° ≈ 32'22	
asc. node	10279 Feb 18 11:36	6° ¥ 30'45		evening set	10280 Jan 28 11:42	24° ≈ 58′24	
inferior conj	10279 Feb 19 19:50	4° ¥ 51'59	0°26'16	min. Earth dist.	10280 Feb 01 10:18	21° ≈ 11'57	0.65324 AU
minimum elong	10279 Feb 19 19:09	4°) 54′06	0°26'14	inferior conj	10280 Feb 03 14:54	18° ≈ 44'08	-0°34'44
	10279 Feb 24 09:23	30° R ≈		minimum elong	10280 Feb 03 15:55	18° ≈ 41'17	0°33'57
morning rise	10279 Feb 25 16:08	29° ≈ 06'58		asc. node	10280 Feb 05 08:48	16° ≈ 49'15	
direct	10279 Feb 28 18:16	28° ≈ 13′02		morning rise	10280 Feb 09 21:32	13° ≈ 11′20	
	10279 Mar 05 07:34	0° ∀		direct	10280 Feb 12 14:24	12° ≈ 32′10	
morning max el	10279 Mar 07 08:24	1°) 45′46	18°33'59	morning max el	10280 Feb 18 23:51	15° ≈ 54'12	18°02'20
desc. node	10279 Mar 24 08:47	25°) 47′28			10280 Feb 29 06:56	0° ∀	
	10279 Mar 27 00:57	0 ° $\mathbf{\Upsilon}$		morning set	10280 Mar 08 03:08	12° ¥ 45'17	
morning set	10279 Mar 28 04:43	1° Y '49'23		desc. node	10280 Mar 10 05:35	16° ∺ 11'43	
					10280 Mar 18 18:36	0° Y	
superior conj	10279 Apr 13 07:00	27° Y ′04'14	-1°56'55				
minimum elong	10279 Apr 12 22:34	26° Ƴ 31'17	1°56'31	superior conj	10280 Mar 22 15:59	6° Ƴ 10'44	-1°23'40
max. Earth dist.	10279 Apr 12 23:56	26° Ƴ 36'35	1.45604 AU	minimum elong	10280 Mar 22 07:07	5° Ƴ 35'40	1°22'40
	10279 Apr 15 03:56	0° 8		max. Earth dist.	10280 Mar 25 19:56	11° Y ′09'37	1.45488 AU
evening rise	10279 Apr 28 22:11	21° 8 41'37			10280 Apr 06 22:48	0° ႘	
	10279 May 04 03:32	Π° 0		evening rise	10280 Apr 07 19:05	1° 8 18'18	
greatest brilliancy	10279 May 07 10:04	5° Ⅱ 10'19	-0.8m	greatest brilliancy	10280 Apr 21 03:54	21° 8 41'25	-0.7m
asc. node	10279 May 17 09:44	19° Ⅱ 48'34			10280 Apr 26 23:22	$\Pi^{\circ}0$	
evening max el	10279 May 20 14:16	23° Ⅲ 27'49	18°47'51	evening max el	10280 May 02 21:19	7° Ⅱ 08'43	19°34'58
retrograde	10279 May 27 06:03	27° Ⅲ 07'37		asc. node	10280 May 03 06:54	7° Ⅲ 32'27	
evening set	10279 May 30 13:43	26° Ⅲ 04'22		retrograde	10280 May 10 03:37	11° Ⅱ 16′13	
inferior conj	10279 Jun 05 03:41	20° Ⅲ 24′02	3°14'11	evening set	10280 May 13 19:52	9° Ⅱ 57'20	
minimum elong	10279 Jun 05 04:39	20° Ⅲ 21′01	3°13'40	inferior conj	10280 May 19 04:58	4° ∏ 02'20	3°18'19
min. Earth dist.	10279 Jun 06 23:25	18° Ⅲ 08′05	0.65796 AU	minimum elong	10280 May 19 04:45	4° Ⅱ 03'02	3°17'54
morning rise	10279 Jun 10 18:53	14° Ⅱ 03'51		min. Earth dist.	10280 May 20 09:44	2° I I27'03	0.67176 AU
direct	10279 Jun 17 05:17	11° Ⅱ 19'12			10280 May 22 08:37	30°R₩	
desc. node	10279 Jun 20 09:00	11° Ⅱ 53'08		morning rise	10280 May 24 13:16	27° 8 42'25	
morning max el	10279 Jun 30 08:54	19° Ⅱ 07'35	26°44'50	direct	10280 May 30 13:37	25° 8 02'50	
8	10279 Jul 09 14:10	0.ಪ		desc. node	10280 Jun 06 06:01	27° 8 34'23	
	10279 Jul 29 03:12	0°N			10280 Jun 09 07:23	0°II	
morning set	10279 Aug 05 04:47	12° Ω 52'00		morning max el	10280 Jun 11 19:00	2°∏22'11	25°30'35
max. Earth dist.	10279 Aug 09 08:34	20° Ω 58'11	1.34203 AU	morning max or	10280 Jul 02 17:26	0°95	20 30 30
asc. node	10279 Aug 13 09:14	29°Ω10'13	1.5 .205 110	morning set	10280 Jul 17 20:32	25° © 16'57	
	102/91148 13 09.11	29 001015		morning sec	10280 Jul 20 10:08	0°Ω	
superior conj	10279 Aug 13 22:06	0° mp 17'01	0°05'18	max. Earth dist.	10280 Jul 21 12:32		1.36073 AU
minimum elong	10279 Aug 13 21:50	0° mp 15'37		man. Darun dige.	10200 001 21 12.52	2 0000 .0	1.50075110
behind sun begin	10279 Aug 13 16:19	29° Ω 46'57	0 0.09	superior conj	10280 Jul 27 13:24	13° Ω 47'44	-0°26'07
behind sun end	10279 Aug 14 03:21	0° m/44'20		minimum elong	10280 Jul 27 15:01	13°Ω55'48	
	10279 Aug 13 18:50	0°m)		asc. node	10280 Jul 30 06:08	19° Ω 14'12	0 2011
evening rise	10279 Aug 21 08:00	15° m) 53'57		evening rise	10280 Aug 04 14:17	0° m 09'38	
evening rise	10279 Aug 28 09:45	0∘ ⊽		evening rise	10280 Aug 04 12:24	0°m)	
evening max el	10279 Sep 09 23:24	ა _ 18° ჲ 08'55	21°17'20	evening max el	10280 Aug 22 05:08	29° Mp 05'16	19°58'14
desc. node	10279 Sep	22° ₽ 46'49	21 1/20	evening max or	10280 Aug 23 04:12	0° ರ	17 2011
retrograde	10279 Sep 10 07:11 10279 Sep 21 24:00	24° Ω 06'53		retrograde	10280 Sep 01 14:04	ა — 4° Ω 14'10	
evening set	10279 Sep 24 12:17	23° Ω 52'17		desc. node	10280 Sep 02 04:28	4° £ 13'11	
inferior conj	10279 Oct 03 15:23	19° ♀ 56'32	-4°46'49	evening set	10280 Sep 02 01:28	4° £ 04'31	
minimum elong	10279 Oct 03 05:53	20° ഫ 09'52	4°44'28	inferior conj	10280 Sep 12 11:21	0° £ 04'26	-3°07'19
min. Earth dist.	10279 Oct 03 03:33	19° ≏ 46'23	0.54616 AU	minimum elong	10280 Sep 12 17:21 10280 Sep 12 03:06	0° Ω 16'54	
morning rise	10279 Oct 03 22:37 10279 Oct 12 00:07	16° ⊆ 05'15	0.54010710	minimum ciong	10280 Sep 12 03:00	30°RM)	3 0420
direct	10279 Oct 12 00:07 10279 Oct 15 20:02	15° ⊆ 33'36		min. Earth dist.	10280 Sep 12 14:10 10280 Sep 14 08:09	28° Mp 56'47	0.55065 AU
morning max el	10279 Oct 28 12:41	21° ⊆ 37'05	22021155	morning rise	10280 Sep 14 08:09 10280 Sep 20 17:01	25° m 50'28	0.55005 AC
morning max er	10279 Nov 04 16:19	0°M	22 31 33	direct	10280 Sep 20 17:01 10280 Sep 25 07:53	25° Mp 04'01	
asc. node	10279 Nov 04 10:19 10279 Nov 09 09:39	7° I ቤ17'32		direct	10280 Sep 25 07:33 10280 Oct 06 23:24	0° ⊽	
morning set	10279 Nov 19 14:00	26°M56'08		morning max el	10280 Oct 00 23:24 10280 Oct 09 00:31	0 = 1° £ 48'16	24010116
morning set	10279 Nov 19 14.00 10279 Nov 21 00:37	20 IIL3008 0° √		asc. node	10280 Oct 09 00.31 10280 Oct 26 06:34	26° £ 05'52	∠ T 1910
	102/7 INOV 21 UU:3/	υ Χ .		asc. Hour		26° ±± 05′52 0° ™	
aunaries cos:	10270 Nov. 26, 14.46	110.750000	1020120	marning act	10280 Oct 28 08:07		
superior conj	10279 Nov 26 14:46	11°×758'38	1°38'38	morning set	10280 Nov 03 01:50	11°M43'50	
minimum elong	10279 Nov 26 15:34	12° × ⁷ 02'51	1°39'02		10200 NT 00 22 24	2.0m 20120	1020142
max. Earth dist.	10279 Nov 30 02:08	19° 🗷 15'54	1.33998 AU	superior conj	10280 Nov 09 22:24	26°M39'38	1°39'43
evening rise	10279 Dec 04 15:27	28° ₹ '25'00		minimum elong	10280 Nov 09 22:01	26°M37'31	1°40'05
daga (5 - 4 -	10279 Dec 05 11:02	0°る		may Faul 11 4	10280 Nov 11 11:17	0°×⁄³	1 22/00 411
desc. node	10279 Dec 13 05:24	14° る 09'55		max. Earth dist.	10280 Nov 12 02:07	1°×720'00	1.32689 AU
arrania 1	10279 Dec 23 03:44	0°≈ 20°a a 10'17	2790(127	evening rise	10280 Nov 17 08:09	12° ∡ ⁷ 20'27	
evening max el	10280 Jan 08 10:17	20° ≈ 10'17	21 0031		10280 Nov 26 16:22	0°ප	

desc. node	10280 Nov 29 02:28	4° る 08'51			10281 Nov 20 02:26	0°₹	
dese. Hode	10280 Dec 17 14:04	0°≈		evening max el	10281 Dec 03 06:45	00 16° る 05'14	27°21'41
evening max el	10280 Dec 20 22:25	3° ≈ 25'38	27°29'37	retrograde	10281 Dec 17 03:30	23° る 20'14	2, 21 11
retrograde	10281 Jan 03 15:07	10° ≈ 46'03	2, 2, 3,	evening set	10281 Dec 24 04:04	21° る 03'56	
evening set	10281 Jan 10 14:26	8° ≈ 16'27		min. Earth dist.	10281 Dec 27 21:08		0.61604 AU
min. Earth dist.	10281 Jan 14 08:52		0.63596 AU	inferior conj	10281 Dec 30 21:56	15° る 30'24	
inferior conj	10281 Jan 17 00:39	2° ≈ 19'37		minimum elong	10281 Dec 31 03:51	15° る 17'05	
minimum elong	10281 Jan 17 03:59	2° ≈ 11'09		morning rise	10282 Jan 07 06:10	10° る 31'27	
S	10281 Jan 19 10:00	30°Ŗる		direct	10282 Jan 09 10:49	10°る10'53	
asc. node	10281 Jan 22 05:58	27° る 48'59		asc. node	10282 Jan 09 03:06	10° る 11'20	
morning rise	10281 Jan 23 19:33	27° る 02'05		morning max el	10282 Jan 16 09:52	13° る 41'51	17°51'31
direct	10281 Jan 26 05:05	26° る 34'02		-	10282 Jan 27 12:38	0° ≈	
morning max el	10281 Feb 01 17:25	29° る 55'42	17°47'56	morning set	10282 Feb 01 02:27	8° ≈ 11'22	
	10281 Feb 01 19:09	0°≈					
morning set	10281 Feb 18 04:28	24° ≈ 59'11		superior conj	10282 Feb 11 22:26	27° ≈ 22'37	0°00'14
	10281 Feb 21 02:39	0° ∀		minimum elong	10282 Feb 11 22:29	27° ≈ 22'51	0°00'31
desc. node	10281 Feb 25 02:22	6°) 45′42		behind sun begin	10282 Feb 11 14:01	26° ≈ 46′28	
				behind sun end	10282 Feb 12 06:58	27° ≈ 59′09	
superior conj	10281 Mar 02 18:45	16° ¥ 10′57	-0°41'31	desc. node	10282 Feb 11 23:08	27° ≈ 25'38	
minimum elong	10281 Mar 02 14:18	15° ¥ 52'47	0°40'44		10282 Feb 13 11:19	0° ∀	
max. Earth dist.	10281 Mar 08 14:55	25° ∺ 35'46	1.44640 AU	max. Earth dist.	10282 Feb 19 05:59	9° ∺ 36'55	1.43162 AU
	10281 Mar 11 09:45	0° Y		evening rise	10282 Feb 25 23:55	20° ¥ 23'42	
evening rise	10281 Mar 18 06:33	10° Ƴ 39'50			10282 Mar 04 05:41	0 ° Υ	
	10281 Mar 31 03:13	0° 8			10282 Mar 25 16:21	0° 8	
evening max el	10281 Apr 15 22:49	20° 8 51'08	20°36'44	evening max el	10282 Mar 29 18:45	4° 8 33'58	21°49'46
asc. node	10281 Apr 20 04:05	24° 8 20'28		asc. node	10282 Apr 07 01:17	9° 8 56'46	
retrograde	10281 Apr 24 02:24	25° 8 35'59		retrograde	10282 Apr 08 00:23	10° 8 01'20	
evening set	10281 Apr 28 04:02	24° 8 01'23		evening set	10282 Apr 12 12:23	8° 8 11'25	
inferior conj	10281 May 03 10:59	17° 8 53'26	3°10'03	inferior conj	10282 Apr 17 19:29	1° 8 52'52	2°51'05
minimum elong	10281 May 03 09:47	17° 8 57'33	3°09'35	minimum elong	10282 Apr 17 17:36	1° 8 59'26	2°50'30
min. Earth dist.	10281 May 04 01:43	17° 8 02'45	0.68092 AU	min. Earth dist.	10282 Apr 17 21:13	1° 8 46'49	0.68555 AU
morning rise	10281 May 08 15:19	11° 8 36'18			10282 Apr 19 04:09	30° ŖƳ	
direct	10281 May 14 03:09	9° 8 10'12		morning rise	10282 Apr 22 22:38	25° Ƴ 40'09	
desc. node	10281 May 24 02:59	14° 8 44'00		direct	10282 Apr 27 20:58	23° Y ′32'52	
morning max el	10281 May 25 04:36	15° 8 47'02	24°03'47	morning max el	10282 May 07 15:29	29° Y 18'48	22°34'02
	10281 Jun 05 21:15	Π °0			10282 May 08 07:35	0°8	
	10281 Jun 25 16:25	0∘ ௐ		desc. node	10282 May 10 23:51	2° 8 57'22	
morning set	10281 Jun 29 16:41	6°5546'32			10282 May 30 15:04	0°II	
max. Earth dist.	10281 Jul 03 10:18	13° © 18'52	1.38264 AU	morning set	10282 Jun 10 12:02	17° Ⅱ 07'05	
				max. Earth dist.	10282 Jun 15 07:54	25° Ⅱ 09'33	1.40544 AU
superior conj	10281 Jul 10 16:29	26°5541'47			10282 Jun 18 03:37	0 \circ	
minimum elong	10281 Jul 10 20:24	27° © 00'26	0°59'00		10000 1 00 00 01	00010116	
,	10281 Jul 12 09:52	0° N		superior conj	10282 Jun 23 03:04	8°548'16	
asc. node	10281 Jul 17 03:03	9° Ω 12'56		minimum elong	10282 Jun 23 08:59	9°515'00	1°30′53
evening rise	10281 Jul 19 14:21	14° Ω 05'17		evening rise	10282 Jul 03 04:48	27°531'16	
	10281 Jul 28 02:42	0°M)	10050150	asc. node	10282 Jul 03 23:59	29° © 01'40 0° Ω	
evening max el	10281 Aug 05 00:07 10281 Aug 13 18:14	10° Mp 48'24	18°59'59	avanina may al	10282 Jul 04 12:23	23° Ω 12'45	18°22'54
retrograde evening set	10281 Aug 15 15:32	15° Mp 09'59 14° Mp 58'38		evening max el retrograde	10282 Jul 19 05:14 10282 Jul 26 17:13	26°Ω58'43	16 22 34
desc. node	10281 Aug 15 15:32 10281 Aug 20 01:43	13° M) 14'17		evening set	10282 Jul 28 20:43	26°Ω41'01	
inferior conj	10281 Aug 20 01:43 10281 Aug 23 23:32	13 ily 14 17 10° Mp 43'05	-1°12'53	inferior conj	10282 Jul 28 20.43 10282 Aug 05 09:18	$20^{\circ} \Omega^{4101}$ $22^{\circ} \Omega^{05'36}$	0°28'22
minimum elong	10281 Aug 23 20:24		1°11'50	minimum elong	10282 Aug 05 09:18 10282 Aug 05 10:17	$22^{\circ}\Omega03'35$	
min. Earth dist.	10281 Aug 26 21:55	8° mg 41'10	0.56389 AU	desc. node	10282 Aug 05 10:17 10282 Aug 06 22:56	20°Ω48'23	0 27 40
morning rise	10281 Aug 31 22:07	5° m 52'40	0.50507710	min. Earth dist.	10282 Aug 08 17:49	19° Ω 22'38	0.58339 AU
direct	10281 Sep 06 08:12	4° mp 43'28		morning rise	10282 Aug 12 20:20	16° Ω 39'01	0.30337 110
morning max el	10281 Sep 00 08:12	12° Mp 01'17	25°58'31	direct	10282 Aug 18 23:14	15°Ω00'31	
	10281 Oct 04 11:58	0° <u>م</u>		morning max el	10282 Sep 02 08:14	22° Ω 42'45	27°12'59
asc. node	10281 Oct 13 03:26	0 — 15° ≏ 22'27			10282 Sep 02 08:14 10282 Sep 08 19:55	0° m)	
morning set	10281 Oct 18 12:56	26° Ω 26'28			10282 Sep 00 17:58	0∘ ⊽	
	10281 Oct 20 04:33	0°M		asc. node	10282 Sep 27 11:36 10282 Sep 30 00:16	ە <u>م</u> 59'28	
				morning set	10282 Oct 02 21:38	10° ♀ 59'12	
superior conj	10281 Oct 25 09:04	11°M26'38	1°34'47	5 ?			
minimum elong	10281 Oct 25 07:43	11°M19'05	1°34'59	superior conj	10282 Oct 09 20:50	26° ≏ 13'42	1°24'14
max. Earth dist.	10281 Oct 26 08:15	13° M .34'50	1.31845 AU	minimum elong	10282 Oct 09 18:49	26° ♀ 02'30	1°24'11
evening rise	10281 Nov 01 08:58	26°M36'11		max. Earth dist.	10282 Oct 09 17:24	25° ≏ 54'36	1.31480 AU
-	10281 Nov 03 00:26	0° ∡ ¹			10282 Oct 11 13:31	0° M	
desc. node	10281 Nov 15 23:34	23° х 40′22		evening rise	10282 Oct 16 15:24	11°M05'35	
				-			

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	10282 Oct 26 05:34	0° ∡ 7		evening rise	10283 Oct 01 01:18	25° ≏ 42'29	
desc. node	10282 Nov 02 20:45	12° х 33′46			10283 Oct 03 01:52	0°M	
evening max el	10282 Nov 15 08:52	27° × 758'35	26°39'42		10283 Oct 20 07:54	0° ⊼ 7	
evening max er	10282 Nov 17 15:50	0° ਰ	20 37 12	desc. node	10283 Oct 20 17:57	0° х ⁷ 33'40	
retrograde	10282 Nov 29 07:20	5° そ 06'28		evening max el	10283 Oct 28 03:01	9° × ⁷ 00'40	25°25'52
evening set	10282 Nov 29 07:20 10282 Dec 06 00:34	3°る13'39		retrograde	10283 Nov 11 00:19	16° ∡ 00'40	23 23 32
Č		3 01339 0° る 37'21	0.50404.411	-			
min. Earth dist.	10282 Dec 09 22:52		0.59484 AU	evening set	10283 Nov 16 23:05	14° 🗷 39'07	0.57456.411
	10282 Dec 10 18:20	30°₹ ⋌ 7	4011110	min. Earth dist.	10283 Nov 21 15:16	12° х 00'29	0.57456 AU
inferior conj	10282 Dec 13 03:15	28° 🗷 07'34		inferior conj	10283 Nov 24 13:20	10° × 701'10	
minimum elong	10282 Dec 13 11:02	27° 🖈 52'15	4°08'34	minimum elong	10283 Nov 24 20:14	9° 🖈 49'23	5°11'14
morning rise	10282 Dec 21 00:10	23° × ⁷ 29'49		morning rise	10283 Dec 02 19:41	5° ∡ ¹45'43	
direct	10282 Dec 23 03:31	23° ∡ 13'14		direct	10283 Dec 05 03:07	5° ∡ 129'39	
asc. node	10282 Dec 27 00:10	24° ∡ 10′09		asc. node	10283 Dec 13 21:11	9° ∡ ³38'31	
morning max el	10282 Dec 30 21:40	27° ∡ ¹02'58	18°14'24	morning max el	10283 Dec 14 00:52	9° ∡ 747'18	18°58'23
	10283 Jan 02 12:47	0°ප			10283 Dec 27 07:01	0°₹	
morning set	10283 Jan 15 15:10	22° る 04'25		morning set	10283 Dec 30 13:54	6° る 23'49	
	10283 Jan 19 19:54	0° ≈					
				superior conj	10284 Jan 07 23:40	22° る 50'58	1°03'46
superior conj	10283 Jan 25 01:40	9° ≈ 40'48	0°36'00	minimum elong	10284 Jan 08 02:48	23° る 05'55	1°03'47
minimum elong	10283 Jan 25 04:12	9° ≈ 52'14	0°36'00		10284 Jan 11 19:04	0° ≈	
desc. node	10283 Jan 29 19:57	18° ≈ 08′09		max. Earth dist.	10284 Jan 14 22:48	5° ≈ 43'23	1.39048 AU
max. Earth dist.	10283 Feb 01 16:09	23° ≈ 00'56	1.41223 AU	desc. node	10284 Jan 16 16:50	8° ≈ 49'07	
	10283 Feb 05 20:47	0° ∺		evening rise	10284 Jan 18 19:21	12° ≈ 27'47	
evening rise	10283 Feb 06 10:53	0° ¥ 57'32			10284 Jan 29 14:55	0° ∀	
Č	10283 Feb 25 16:09	$0^{\circ}\Upsilon$			10284 Feb 20 22:50	$0^{\circ}\Upsilon$	
evening max el	10283 Mar 12 10:42	18° Ƴ 19'48	23°09'13	evening max el	10284 Feb 23 00:34	2° Y 08'39	24°29'01
retrograde	10283 Mar 22 20:02	24° Y 28'18		retrograde	10284 Mar 05 12:00	8° Y 51'18	
asc. node	10283 Mar 24 22:29	24°Υ06'57		evening set	10284 Mar 10 23:29	6° Y 34'04	
evening set	10283 Mar 27 19:23	22° Υ '24'00		asc. node	10284 Mar 10 19:42	6° Y 41'59	
inferior conj	10283 Apr 02 04:32	15° Υ 58'02	2°22'25	min. Earth dist.	10284 Mar 15 13:53	1° Υ 19'27	0.68179 AU
minimum elong	10283 Apr 02 02:20	16° Υ 05'36	2°21'43	inferior conj	10284 Mar 16 12:14	0° Υ 04'41	1°44'28
min. Earth dist.	10283 Apr 02 02:20 10283 Apr 01 18:02	16° Υ 34'16	0.68580 AU	minimum elong	10284 Mar 16 10:11	0° Υ 11'32	1°43'50
	10283 Apr 07 09:12	9° Υ 51'03	0.06380 AU	minimum erong	10284 Mar 16 13:38	0 11132 30°R ∺	1 43 30
morning rise	•	9 γ 31 03 8° γ 05'11				24° ₩ 04'57	
direct	10283 Apr 11 18:05		21000152	morning rise	10284 Mar 21 21:01		
morning max el	10283 Apr 20 06:59	13° Υ 00'24	21°09'52	direct	10284 Mar 25 17:06	22°\(\)40'43	10057122
desc. node	10283 Apr 27 20:41	21° Y 57′29		morning max el	10284 Apr 02 05:48	26°) 53'47	19°57'23
	10283 May 03 17:09	0°8			10284 Apr 05 02:13	0° Υ	
morning set	10283 May 21 04:57	26° 8 16'14		desc. node	10284 Apr 13 17:29	11° Υ 31'15	
	10283 May 23 13:35	0°II			10284 Apr 26 02:53	0° 8	
max. Earth dist.	10283 May 28 10:58	7°Щ52'53	1.42645 AU	morning set	10284 Apr 29 04:45	4° 8 43'14	
				max. Earth dist.	10284 May 09 21:36	21° 8 27'49	1.44304 AU
superior conj	10283 Jun 04 16:40	19° Ⅱ 57'52					
minimum elong	10283 Jun 04 22:43	20° Ⅱ 23'45	1°57'28	superior conj	10284 May 15 06:07	0° Ⅱ 04'49	
	10283 Jun 10 11:17	0		minimum elong	10284 May 15 08:19	0° Ⅱ 13'47	2°12'17
evening rise	10283 Jun 16 05:33	10° © 17'30			10284 May 15 04:56	Π $\circ 0$	
asc. node	10283 Jun 20 20:57	18° © 35'53		evening rise	10284 May 28 11:48	22° Ⅱ 13'19	
	10283 Jun 27 18:36	0 $^{\circ}$ Ω			10284 Jun 02 01:03	0 \circ \odot	
evening max el	10283 Jul 02 16:31	6° Ω 08'49	18°05'53	asc. node	10284 Jun 06 18:00	7° © 50'01	
retrograde	10283 Jul 09 09:36	9° Ω 34'21		evening max el	10284 Jun 15 06:14	19° © 26'50	18°07'54
evening set	10283 Jul 11 21:00	9° Ω 06′34		retrograde	10284 Jun 21 15:21	22° © 47'10	
inferior conj	10283 Jul 18 15:42	4° Ω 10′55	1°44'37	evening set	10284 Jun 24 10:37	22° © 06'43	
minimum elong	10283 Jul 18 18:23	4° Ω 04'33	1°43'21	inferior conj	10284 Jun 30 15:03	16° © 52'10	2°35'35
min. Earth dist.	10283 Jul 21 21:19	1° Ω 08'46	0.60585 AU	minimum elong	10284 Jun 30 17:40	16° 5 345'09	2°34'32
	10283 Jul 23 05:13	30° ℝ		min. Earth dist.	10204 1 1 02 00 45	129654107	0.62814 AU
desc. node	10205 Jul 25 05.15				10284 Jul 03 09:45	13° 9 54'07	0.02017 AU
							0.02014 AC
morning rise	10283 Jul 24 20:07	28°545'39		morning rise	10284 Jul 06 22:57	10°9341'57	0.02014 AO
morning rise direct	10283 Jul 24 20:07 10283 Jul 25 12:59						0.02014 AO
=	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49	28°\$45'39 28°\$17'18 26°\$09'40		morning rise desc. node direct	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19	10°\$41'57 8°\$40'23 8°\$11'52	
direct	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47	28°\$45'39 28°\$17'18 26°\$09'40 0°Ω	27°51'57	morning rise desc. node	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16	
=	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53	28°\$45'39 28°\$17'18 26°\$09'40 0°\$\Omega\$ 4°\$\Omega\$06'34	27°51'57	morning rise desc. node direct	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16 0°\$0	
direct morning max el	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01	28°\$45'39 28°\$17'18 26°\$09'40 0°\$0 4°\$006'34	27°51'57	morning rise desc. node direct morning max el	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16 0°\$1 0°\$1	
direct morning max el asc. node	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01 10283 Sep 16 21:04	28°\$45'39 28°\$17'18 26°\$09'40 0°\$\Omega\$ 4°\$\Omega\$06'34 0°\$\Omega\$24°\$\Omega\$50'48	27°51'57	morning rise desc. node direct morning max el	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00 10284 Aug 31 00:18	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16 0°\$ 0°\$\$ 9°\$\$14'13	
direct morning max el	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01 10283 Sep 16 21:04 10283 Sep 17 02:06	28°\$45'39 28°\$17'18 26°\$09'40 0°\$\Omega\$ 4°\$\Omega\$06'34 0°\$\Omega\$ 24°\$\Omega\$50'48 25°\$\Omega\$16'57	27°51'57	morning rise desc. node direct morning max el morning set asc. node	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00 10284 Aug 31 00:18 10284 Sep 02 17:54	10°S41'57 8°S40'23 8°S11'52 16°S14'16 0°N 0°M 9°M 14'13 14°M 51'32	27°52'35
direct morning max el asc. node morning set	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01 10283 Sep 16 21:04 10283 Sep 17 02:06 10283 Sep 19 07:49	28°\$45'39 28°\$17'18 26°\$09'40 0°\$Ω 4°\$\O06'34 0°\$\pi 24°\$\pi50'48 25°\$\pi16'57 0°\$\oldsymbol{\Omega}		morning rise desc. node direct morning max el	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00 10284 Aug 31 00:18	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16 0°\$ 0°\$\$ 9°\$\$14'13	
direct morning max el asc. node	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01 10283 Sep 16 21:04 10283 Sep 17 02:06	28°\$45'39 28°\$17'18 26°\$09'40 0°\$\Omega\$ 4°\$\Omega\$06'34 0°\$\Omega\$ 24°\$\Omega\$50'48 25°\$\Omega\$16'57	27°51'57 1.31606 AU	morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00 10284 Aug 31 00:18 10284 Sep 02 17:54 10284 Sep 05 06:24	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16 0°\$1 0°\$0 9°\$0,14'13 14°\$51'32 20°\$0,12'00	27°52'35 1.32225 AU
direct morning max el asc. node morning set max. Earth dist.	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01 10283 Sep 16 21:04 10283 Sep 17 02:06 10283 Sep 19 07:49 10283 Sep 23 02:02	28°\$45'39 28°\$17'18 26°\$09'40 0°\$\Omega\$ 4°\$\Omega\$06'34 0°\$\Omega\$ 24°\$\Omega\$50'48 25°\$\Omega\$16'57 0°\$\Omega\$ 8°\$\Omega\$10'20	1.31606 AU	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00 10284 Aug 31 00:18 10284 Sep 02 17:54 10284 Sep 05 06:24	10°S41'57 8°S40'23 8°S11'52 16°S14'16 0°Ω 0°M 9°M 14'13 14°M 51'32 20°M 12'00 25°M 25'22	27°52'35 1.32225 AU 0°47'30
direct morning max el asc. node morning set	10283 Jul 24 20:07 10283 Jul 25 12:59 10283 Aug 01 02:49 10283 Aug 10 16:47 10283 Aug 15 09:53 10283 Sep 03 14:01 10283 Sep 16 21:04 10283 Sep 17 02:06 10283 Sep 19 07:49	28°\$45'39 28°\$17'18 26°\$09'40 0°\$ 4°\$006'34 0°\$ 24°\$\$5'48 25°\$\$16'57 0°\$ 8°\$\$10'20		morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	10284 Jul 06 22:57 10284 Jul 10 17:15 10284 Jul 13 16:19 10284 Jul 27 17:07 10284 Aug 08 00:54 10284 Aug 26 07:00 10284 Aug 31 00:18 10284 Sep 02 17:54 10284 Sep 05 06:24	10°\$41'57 8°\$40'23 8°\$11'52 16°\$14'16 0°\$1 0°\$0 9°\$0,14'13 14°\$51'32 20°\$0,12'00	27°52'35 1.32225 AU 0°47'30

evening rise	10284 Sep 14 12:45	10° £ 21'27		evening rise	10285 Aug 29 23:47	24° m 55'48	
	10284 Sep 24 11:48	0°M		-	10285 Sep 01 09:58	0∘ ⊽	
desc. node	10284 Oct 06 15:11	17° M 19'44		evening max el	10285 Sep 20 02:49	29° ≙ 29'20	22°10'29
evening max el	10284 Oct 08 14:40	19°M21'24	23°50'33		10285 Sep 20 15:35	0° M	
retrograde	10284 Oct 22 04:41	26°ML08'38		desc. node	10285 Sep 23 12:27	2°M24'16	
evening set	10284 Oct 26 21:05	25°M20'45		retrograde	10285 Oct 02 21:35	5°M51'15	
min. Earth dist.	10284 Nov 02 01:04	22°M21'16	0.55797 AU	evening set	10285 Oct 06 02:27	5°M28'28	
inferior conj	10284 Nov 04 03:04	21°M06'10	-5°43'55	min. Earth dist.	10285 Oct 14 08:19	1°M50'57	0.54796 AU
minimum elong	10284 Nov 04 04:18	21°M04'19	5°43'32	inferior conj	10285 Oct 15 00:22	1°M28'24	-5°24'16
morning rise	10284 Nov 12 13:26	17°ML10'31		minimum elong	10285 Oct 14 17:35	1°ML37'57	5°23'05
direct	10284 Nov 15 07:31	16°M51'23			10285 Oct 17 16:49	30° ₹ Ω	
morning max el	10284 Nov 25 16:01	21°M45'27	20°05'00	morning rise	10285 Oct 23 10:16	27° ≏ 41'20	
asc. node	10284 Nov 29 18:10	26°M22'07		direct	10285 Oct 26 19:50	27° ≙ 15'41	
	10284 Dec 02 08:13	0° ∡ ¹			10285 Nov 04 03:11	0° M ₊	
morning set	10284 Dec 13 19:17	21°×700'03		morning max el	10285 Nov 07 17:40	2°M52'57	21°33'29
	10284 Dec 18 04:43	0° ප		asc. node	10285 Nov 16 15:08	14°M04'41	
					10285 Nov 25 09:36	0° ∡ ¹	
superior conj	10284 Dec 21 11:43	6° る 40'17		morning set	10285 Nov 28 04:44	5° ∡ ¹45'20	
minimum elong	10284 Dec 21 14:18	6°පි53'13	1°23'28		10205 D 05 00 47	200 757104	1025102
max. Earth dist.	10284 Dec 27 05:35	17°る52'12 24°る50'18	1.36883 AU	superior conj	10285 Dec 05 09:47	20° 🖈 57'04	1°35'03
evening rise	10284 Dec 31 00:03			minimum elong	10285 Dec 05 11:17	21°×704'53	1°35'25
desc. node	10285 Jan 02 13:47 10285 Jan 02 21:50	29° る 24'50 0°≈		max. Earth dist.	10285 Dec 09 16:59	29° ҂ 145'17 0°る	1.34941 AU
	10285 Jan 02 21:30 10285 Jan 22 05:39	0° ₩		evening rise	10285 Dec 09 19:56	0°る 7°る56'19	
evening max el	10285 Feb 04 13:56	15° H 58'02	25°42'14	desc. node	10285 Dec 13 21:36 10285 Dec 20 10:47	7 33619 19° る 50'52	
retrograde	10285 Feb 16 23:21	23° H 04'44	23 42 14	desc. Hode	10285 Dec 26 13:09	19 3 30 32 0° ≈	
evening set	10285 Feb 10 23:21 10285 Feb 22 23:04	20°\(\frac{1}{37}\)12		evening max el	10286 Jan 18 03:20	0 ≈ 29°≈42'01	26°41'37
asc. node	10285 Feb 25 16:55	17° H 51'29		evening max er	10286 Jan 18 10:50	0° \	20 41 37
min. Earth dist.	10285 Feb 27 06:32	15° X 57'35	0.67368 AU	retrograde	10286 Jan 31 05:27	7° ∺ 02'00	
inferior conj	10285 Feb 28 16:42	14° \ 09'07	0°57'26	evening set	10286 Feb 06 16:24	4° ∺ 28′23	
minimum elong	10285 Feb 28 15:20	14°) (13'27	0°57'06	min. Earth dist.	10286 Feb 10 17:50	0° ¥ 23'10	0.66168 AU
morning rise	10285 Mar 06 08:07	8° ¥ 18′21	0 27 00	min. Eurin dist.	10286 Feb 11 01:48	30°R≈	0.00100110
direct	10285 Mar 09 16:27	7°) 14′10		inferior conj	10286 Feb 12 15:52	28° ≈ 07'14	0°01'26
morning max el	10285 Mar 16 12:28	10°) 57'39	18°59'49	minimum elong	10286 Feb 12 15:49	28° ≈ 07'22	0°01'42
greatest brilliancy	10285 Mar 30 02:57	29°) 15′08	-0.8m	transit middle	10286 Feb 12 15:49	28° ≈ 07'22	0°01'42
,	10285 Mar 30 14:45	$0^{\circ}\mathbf{\Upsilon}$		transit begin	10286 Feb 12 12:55	28° ≈ 16′00	
desc. node	10285 Mar 31 14:16	1° Y 29'40		transit end	10286 Feb 12 18:44	27° ≈ 58'45	
morning set	10285 Apr 08 09:39	13° Y 32'43		asc. node	10286 Feb 12 14:08	28° ≈ 12'23	
	10285 Apr 18 23:25	9° 8		morning rise	10286 Feb 18 16:19	22° ≈ 27'25	
max. Earth dist.	10285 Apr 22 14:12	5° 8 39'38	1.45335 AU	direct	10286 Feb 21 14:18	21° ≈ 40′16	
				morning max el	10286 Feb 28 01:31	25° ≈ 06'57	18°18'32
superior conj	10285 Apr 24 21:39	9° 8 17'41	-2°08'19		10286 Mar 04 05:35	0° ∀	
minimum elong	10285 Apr 24 16:34	8° 8 57'39	2°08'23	desc. node	10286 Mar 18 11:03	21°) 46′07	
	10285 May 07 20:26	Π $^{\circ}0$		morning set	10286 Mar 19 15:00	23° ∺ 37'57	
evening rise	10285 May 09 19:19	3° Ⅱ 10′33			10286 Mar 23 14:42	0 ° $\mathbf{\Upsilon}$	
asc. node	10285 May 24 15:06	26° Ⅱ 36'38					
	10285 May 27 04:05	0ංම		superior conj	10286 Apr 04 03:42	18° Y 12'31	
evening max el	10285 May 29 19:10	2°958'07	18°28'10	minimum elong	10286 Apr 03 18:13	17° Y 35′23	1°43'50
retrograde	10285 Jun 05 06:03	6°927'18		max. Earth dist.	10286 Apr 05 09:37	20° Y 09'34	1.45638 AU
evening set	10285 Jun 08 09:05	5°932'37	2005111	i ·	10286 Apr 11 16:49	0°8	
inferior conj	10285 Jun 14 03:16	0°501'00	3°05'11	evening rise	10286 Apr 20 03:20	13° 8 11'45	
minimum elong	10285 Jun 14 04:55	29° ∏ 56′04	3°04'30		10286 Apr 30 22:17	0°II	0.0
min. Earth dist.	10285 Jun 14 03:36 10285 Jun 16 07:35	30°RⅡ 27°Ⅱ25'54	0.64808 AU	greatest brilliancy asc. node	10286 Apr 30 20:58	29° 8 54'56 14° II 47'02	-0.8m
morning rise	10285 Jun 19 23:46	27 H 23 34 23° H 42'32	0.04808 AU	evening max el	10286 May 11 12:15 10286 May 13 04:52	14 Ⅱ 4/02 16° Ⅱ 36'55	19°05'54
direct	10285 Jun 26 14:02	23 H 42 32 21° H 00'14		retrograde	10286 May 13 04.32 10286 May 20 02:03	20° II 27'35	19 03 34
desc. node	10285 Jun 27 14:21	21° I I00'14		evening set	10286 May 23 13:11	19° Ⅱ 17'48	
morning max el	10285 Jul 10 03:26	28° I 57'40	27°18'00	inferior conj	10286 May 29 00:42	13° I I30'51	3°17'37
o.iiiig iiiux Ci	10285 Jul 10 03:20	28 H 37 40	2, 1000	minimum elong	10286 May 29 01:09	13° II 29'23	3°17'09
	10285 Aug 01 21:37	0°Ω		min. Earth dist.	10286 May 30 13:57	11° II 31'24	0.66431 AU
morning set	10285 Aug 01 21:37 10285 Aug 14 13:29	22° Ω 43'03		morning rise	10286 Jun 03 12:35	7° I 10'06	J.00731 AU
	10285 Aug 18 05:12	0° m		direct	10286 Jun 09 18:57	4° Ⅱ 26'32	
max. Earth dist.	10285 Aug 19 02:44	1° Mp 50'10	1.33343 AU	desc. node	10286 Jun 14 11:23	5° ∏ 41'21	
asc. node	10285 Aug 20 14:44	4° m) 56'33		morning max el	10286 Jun 22 14:16	12° I 105'06	26°15'30
				-0	10286 Jul 06 22:37	0°9	
superior conj	10285 Aug 22 20:08	9° m 37'36	0°21'55		10286 Jul 25 13:07	$0 {\circ} \Omega$	
minimum elong	10285 Aug 22 19:03	9° mp 31'53	0°21'29	morning set	10286 Jul 28 14:20	5° Ω 35'06	
3	<i>5</i>	3		2			

max. Earth dist.	10286 Aug 01 12:28	13°Ω03'46	1.34951 AU		10287 Jun 30 10:41	0° ©	
max. Lattii dist.	10200 Aug 01 12.20	13 6 603 40	1.54751 AO	morning set	10287 Jul 10 22:25	17° © 38'38	
superior conj	10286 Aug 06 16:50	23° Ω 25'48	-0°07'42	max. Earth dist.	10287 Jul 14 12:35	24°907'46	1.36973 AU
minimum elong	10286 Aug 06 17:17	23° Ω 28'08		max. Earth dist.	10287 Jul 17 15:58	0°Ω	1.50575710
behind sun begin	10286 Aug 06 12:03	23° Ω 01'22	0 0,00		10207 041 17 10.00	v 00	
behind sun end	10286 Aug 06 22:31	23° Ω 54'57		superior conj	10287 Jul 21 03:24	6° Ω 42'21	-0°40'06
asc. node	10286 Aug 07 11:37	25° Ω 02'17		minimum elong	10287 Jul 21 05:58	6°Ω54'56	0°40'00
uov. nouv	10286 Aug 09 21:04	0° m)		asc. node	10287 Jul 25 08:32	15°Ω04'50	0 10 00
evening rise	10286 Aug 14 08:28	9° mg 20'16		evening rise	10287 Jul 29 12:27	23° Ω 28'25	
	10286 Aug 25 07:38	0∘ ⊽			10287 Aug 01 19:20	0° m)	
evening max el	10286 Sep 02 00:45	10° ≏ 01'50	20°41'10	evening max el	10287 Aug 15 12:28	21° mg 19'14	19°30'53
desc. node	10286 Sep 10 09:43	15° Ω 17'09		retrograde	10287 Aug 25 04:14	26° m) 06'38	-, -, -, -, -, -, -, -, -, -, -, -, -, -
retrograde	10286 Sep 13 09:32	15° Ω 40'06		evening set	10287 Aug 27 00:25	25° m 56'58	
evening set	10286 Sep 15 13:10	15° ≏ 28'50		desc. node	10287 Aug 28 06:56	25° m/39'34	
inferior conj	10286 Sep 24 16:40	11° Ω 32'42	-4°08'39	inferior conj	10287 Sep 04 18:25	21° mp 51'44	-2°18'37
minimum elong	10286 Sep 24 06:51	11° Ω 46'48	4°05'43	minimum elong	10287 Sep 04 12:13		2°16'22
min. Earth dist.	10286 Sep 25 16:45	10° ⊆ 58'06	0.54691 AU	min. Earth dist.	10287 Sep 07 04:12	20° mg 19'46	0.55534 AU
morning rise	10286 Oct 03 00:21	7° ⊆ 33'50	0.54071710	morning rise	10287 Sep	17° My 22'56	0.55554710
direct	10286 Oct 07 03:55	6° £ 56'53		direct	10287 Sep 17 20:55	16° Mp 27'29	
morning max el	10286 Oct 20 08:44	13° ⊆ 18'55	22017/27	morning max el	10287 Oct 01 20:08	23° M) 27'43	25002125
morning max er	10286 Nov 02 00:34	0°M	23 1/2/	morning max er	10287 Oct 07 17:53	0° ⊡	25 03 25
aga mada		2°M32'30		aga mada		0 = 21° £ 34'29	
asc. node	10286 Nov 03 12:02			asc. node	10287 Oct 21 08:55		
morning set	10286 Nov 12 16:10	20°M33'43			10287 Oct 25 14:56	0°M	
	10286 Nov 17 01:18	0° ∡ 7		morning set	10287 Oct 28 03:54	5° M 20′25	
aumariar aani	10206 Nav. 10, 14:40	50.721151	1020151	aumariar aani	10297 Nov. 02 22.52	20° ™ 17'06	1°38'19
superior conj	10286 Nov 19 14:40	5° 🗷 31'51	1°39'51	superior conj	10287 Nov 03 23:53		
minimum elong	10286 Nov 19 14:57	5° 🗷 33'20	1°40'16	minimum elong	10287 Nov 03 23:03	20°M12'31	1°38'39
max. Earth dist.	10286 Nov 22 12:04	11° x ⁷ 41'31	1.33380 AU	max. Earth dist.	10287 Nov 05 14:53	23°M50'46	1.32272 AU
evening rise	10286 Nov 27 08:17	21° ∡ 36'37			10287 Nov 08 11:22	0° ⊼ ¹	
	10286 Dec 01 16:54	0°る		evening rise	10287 Nov 11 04:50	5° 🖈 42'42	
desc. node	10286 Dec 07 07:50	10° る 01'43		desc. node	10287 Nov 24 04:55	29° 🗷 50'43	
	10286 Dec 20 09:17	0° ≈	27010155		10287 Nov 24 07:10	0°る	27020122
evening max el	10286 Dec 31 16:15		27°19'55	evening max el	10287 Dec 14 03:13	26° ප 13'52	27°30'23
retrograde	10287 Jan 14 05:26	20°≈34'10			10287 Dec 18 15:51	0° ≈	
evening set	10287 Jan 21 01:14	18°≈00'52	0.64646.477	retrograde	10287 Dec 27 22:24	3°≈32'31	
min. Earth dist.	10287 Jan 24 21:43	14°≈28'14		evening set	10288 Jan 03 22:50	1°≈07'41	
inferior conj	10287 Jan 27 07:18	11°≈52'57			10288 Jan 05 11:08	30°₹₹	
minimum elong	10287 Jan 27 09:14	11°≈47'45	1°01'55	min. Earth dist.	10288 Jan 07 16:16		0.62769 AU
asc. node	10287 Jan 30 11:19	8°≈41'28		inferior conj	10288 Jan 10 12:11	25° る 19'49	
morning rise	10287 Feb 02 18:58	6°≈26'30		minimum elong	10288 Jan 10 16:37	25° る 09'05	2°12'25
direct	10287 Feb 05 08:20	5°≈52'41	1505406	asc. node	10288 Jan 17 08:26	20°る13'25	
morning max el	10287 Feb 11 18:16	9°≈13'38	17°54'06	morning rise	10288 Jan 17 12:41	20°る09'34	
	10287 Feb 25 23:33	0°) {		direct	10288 Jan 19 19:42	19°る45'11	15045100
morning set	10287 Mar 01 01:27	5°) €08'43		morning max el	10288 Jan 26 11:45	23° る 10'04	17°47'08
desc. node	10287 Mar 05 07:49	12°) 14′54			10288 Jan 31 21:29	0°≈	
	1020734 14 10 40	270 1 2010 1	1006117	morning set	10288 Feb 11 12:25	17°≈50'21	
superior conj	10287 Mar 14 18:40	27°) (38'01			10288 Feb 18 12:15	0°) (52100	
minimum elong	10287 Mar 14 11:23	27°) €08'55	1~05/16	desc. node	10288 Feb 20 04:38	2°) 52′09	
79 at 15 a	10287 Mar 16 06:16	0°Υ 4° Ω Ω20120	1 45000 477		10000 7 1 00 07 46	001/00111	0000101
max. Earth dist.	10287 Mar 19 04:54	4° Υ 39'29	1.45202 AU	superior conj	10288 Feb 23 07:46	8°) €08'11	
evening rise	10287 Mar 30 18:18	22° Y 36'40		minimum elong	10288 Feb 23 05:25	7°) 58'23	
1 . 1111	10287 Apr 04 14:18	0°8	0.6	max. Earth dist.	10288 Feb 29 22:12	18°) ₹56'03	1.44082 AU
greatest brilliancy	10287 Apr 14 14:43	14° 8 59'55	-0.6m		10288 Mar 07 22:30	0°Υ 2° Ω 02120	
	10287 Apr 26 02:21	0°П	10050120	evening rise	10288 Mar 09 06:27	2°Υ03'38	
evening max el	10287 Apr 26 09:33	0°Ⅱ18'28	19°59'39		10288 Mar 28 03:30	0°8	21006145
asc. node	10287 Apr 28 09:26	2° Ⅱ 08'57		evening max el	10288 Apr 08 08:41	14° 8 01'22	21°06'45
retrograde	10287 May 04 00:23	4° ∏ 41'15		asc. node	10288 Apr 14 06:36	18° 8 28'24	
evening set	10287 May 07 20:25	3° Ⅱ 15'53		retrograde	10288 Apr 16 22:54	19° 8 03'39	
	10287 May 11 01:54	30°₹ ႘	2016112	evening set	10288 Apr 21 04:49	17° 8 22'36	2002112
inferior conj	10287 May 13 04:17			inferior conj	10288 Apr 26 11:35	11° 8 10'06	3°03'13
minimum elong	10287 May 13 03:38			minimum elong	10288 Apr 26 10:04	11° 8 15'24	3°02'43
min. Earth dist.	10287 May 14 03:03	25° 8 58'24	0.67618 AU	min. Earth dist.	10288 Apr 26 20:45	10° 8 38'18	0.68348 AU
morning rise	10287 May 18 10:32	20° 8 56'03		morning rise	10288 May 01 15:05	4° 8 54'43	
direct	10287 May 24 05:45	18° 8 21'05		direct	10288 May 06 21:22	2° 8 35'51	02025100
desc. node	10287 Jun 01 08:21	22° 8 03'11	24954124	morning max el	10288 May 17 09:31	8° 8 51'17	25~25~20
morning max el	10287 Jun 04 23:59	25° 8 24'35	24~54'34	desc. node	10288 May 18 05:15	9° 8 42'07	
	10287 Jun 09 04:09	Π °0			10288 Jun 02 23:54	0°Щ	

morning set	10288 Jun 21 08:31	28° ∏ 39'52			10289 May 06 10:57	0°8	
morning set	10288 Jun 22 03:29	28 п 3932			10289 May 27 07:20	0°II	
max. Earth dist.	10288 Jun 25 09:14	5° © 34'08	1.39239 AU	morning set	10289 Jun 01 16:23	8°∏29'08	
				max. Earth dist.	10289 Jun 07 09:18	17° Ⅱ 48'58	1.41476 AU
superior conj	10288 Jul 03 00:02	19° © 17'46	-1°13'08		10289 Jun 14 12:15	0ಂತಾ	
minimum elong	10288 Jul 03 04:54	19° 5 340'27	1°12'51				
	10288 Jul 08 15:25	$0^{\circ}\Omega$		superior conj	10289 Jun 15 02:16	1° 5 01'36	-1°43'20
asc. node	10288 Jul 11 05:28	5° Ω 00'00		minimum elong	10289 Jun 15 08:36	1° 5 29'33	1°43'08
evening rise	10288 Jul 12 08:50	7° Ω 12'30		evening rise	10289 Jun 25 18:02	20° © 23'27	
	10288 Jul 25 14:10	0° Mp		asc. node	10289 Jun 28 02:25	24°5643'37	
evening max el	10288 Jul 28 12:19	3° m 21'29	18°41'44		10289 Jul 01 00:09	0° Ω	10012117
retrograde	10288 Aug 05 16:01	7° Mp 25'46		evening max el	10289 Jul 11 20:33 10289 Jul 18 23:05	16° Ω 00'47 19° Ω 36'22	18°13'17
evening set desc. node	10288 Aug 07 15:44 10288 Aug 14 04:10	7° m/12'06 3° m/52'55		retrograde evening set	10289 Jul 21 05:55	19° Ω 14'43	
inferior conj	10288 Aug 15 15:32	2° Mp 48'20	-0°27'16	inferior conj	10289 Jul 28 10:28	14°Ω30'12	1°03'53
minimum elong	10288 Aug 15 14:25	2° Mp 50'24	0°27'06	minimum elong	10289 Jul 28 12:27		1°02'50
min. Earth dist.	10288 Aug 18 20:07	0° mp 26'54	0.57164 AU	min. Earth dist.	10289 Jul 31 18:51	11° Ω 36'32	
	10288 Aug 19 11:30	30°R Ω	,	desc. node	10289 Aug 01 01:21	11° Ω 23'13	
morning rise	10288 Aug 23 09:42	27° Ω 42'15		morning rise	10289 Aug 04 15:46	8° Ω 50'55	
direct	10288 Aug 29 03:42	26° Ω 21′01		direct	10289 Aug 11 00:02	7° Ω 00'00	
	10288 Sep 07 21:53	0° ™		morning max el	10289 Aug 25 08:49	14° Ω 48'55	27°34'20
morning max el	10288 Sep 12 10:56	3°10/49'39	26°34'00		10289 Sep 06 15:11	0° ™	
	10288 Oct 01 09:06	0∘ ⊽			10289 Sep 23 17:45	0∘ ⊽	
asc. node	10288 Oct 07 05:46	11° ≏ 00'57		asc. node	10289 Sep 24 02:36	0° Ω 45'16	
morning set	10288 Oct 11 14:11	19° ≏ 59'42		morning set	10289 Sep 25 21:21	4° ≏ 27'13	
	10288 Oct 16 04:18	0°M₊					
	10200 0 / 10 11 14	50 m 05106	1020150	superior conj	10289 Oct 02 22:55	19° £ 50'39	1°18'10
superior conj	10288 Oct 18 11:14	5°M05'06	1°30'59 1°31'04	minimum elong	10289 Oct 02 20:45	19° £ 38'36	1°17'59
minimum elong max. Earth dist.	10288 Oct 18 09:33 10288 Oct 18 22:53	4°M55'44 6°M09'52	1.31637 AU	max. Earth dist.	10289 Oct 02 08:31 10289 Oct 07 12:57	18° ≏ 30'39 0° ™	1.31481 AU
evening rise	10288 Oct 25 08:21	20°M05'41	1.5105/ AU	evening rise	10289 Oct 07 12.37 10289 Oct 09 16:31	0 IIL 4°MJ39'21	
evening rise	10288 Oct 30 05:11	0°×7		evening rise	10289 Oct 22 23:25	0° √	
desc. node	10288 Nov 10 02:02	19° √ 07'53		desc. node	10289 Oct 27 23:12	7° ∡ 40′52	
	10288 Nov 17 17:04	0°る		evening max el	10289 Nov 07 08:15	20° х 07′23	26°11'36
evening max el	10288 Nov 25 09:28	8° ප 36'03	27°08'01	retrograde	10289 Nov 21 06:10	27° ҂ 11'30	
retrograde	10288 Dec 09 06:59	15° る 47'07		evening set	10289 Nov 27 17:21	25° ∡ 31'09	
evening set	10288 Dec 16 05:39	13° る 39'55		min. Earth dist.	10289 Dec 01 21:15	22° ₹ 56′22	0.58606 AU
min. Earth dist.	10288 Dec 20 00:03	10° る 57'11	0.60714 AU	inferior conj	10289 Dec 05 00:34	20° х 37′33	-4°39'49
inferior conj	10288 Dec 23 03:07	8° る 17'56	-3°29'30	minimum elong	10289 Dec 05 08:27	20° ∡ *22'57	4°37'23
minimum elong	10288 Dec 23 10:00	8° ප 03'15	3°26'40	morning rise	10289 Dec 13 02:06	16° ₹ 09'27	
morning rise	10288 Dec 30 16:55	3°る27'21		direct	10289 Dec 15 06:36	15° ₹ 53'25	
direct	10289 Jan 01 20:36	3° る 08'47		asc. node	10289 Dec 21 02:34	17° 🖈 55'02	10020125
asc. node	10289 Jan 03 05:31	3° ප 16'35 6° පි 46'31	17°58'44	morning max el	10289 Dec 23 11:11	19° メ 53'22 0°る	18°30'25
morning max el	10289 Jan 09 02:35 10289 Jan 23 23:29	0°≈	17 36 44	morning set	10289 Dec 31 00:01 10290 Jan 08 10:47	0 පි 15° පි 27'56	
morning set	10289 Jan 24 17:20	0 ∞ 1°≈22'10		morning set	10290 Jan 16 01:12	0°≈	
morning sec	1020) 3411 21 17.20	1 /4/22 10			10290 3411 10 01.12	0 / 0 \	
superior conj	10289 Feb 03 21:54	19° ≈ 49'18	0°16'20	superior conj	10290 Jan 17 09:44	2° ≈ 31'37	0°48'49
minimum elong	10289 Feb 03 23:16	19° ≈ 55'16	0°16'27	minimum elong	10290 Jan 17 12:42	2° ≈ 45'22	0°48'47
desc. node	10289 Feb 06 01:27	23° ≈ 33'43		desc. node	10290 Jan 23 22:18	14° ≈ 16′09	
	10289 Feb 09 20:13	0°) €		max. Earth dist.	10290 Jan 24 20:19	15° ≈ 51'49	1.40315 AU
max. Earth dist.	10289 Feb 11 11:40	2°) 44′25	1.42389 AU	evening rise	10290 Jan 29 02:20	23° ≈ 04'22	
evening rise	10289 Feb 17 06:22	12°) €06'54			10290 Feb 02 08:16	0° ∀	
	10289 Feb 28 22:55	0°Υ			10290 Feb 22 21:29	0° Υ	
evening max el	10289 Mar 22 02:47	27° Y 45'40	22°23'10	evening max el	10290 Mar 04 17:28	11° Υ 32'17	23°43'30
. 1	10289 Mar 24 12:25	0°8		retrograde	10290 Mar 15 14:10	17° Υ 56'35 17° Υ 00'06	
retrograde	10289 Mar 31 19:56	3° 8 30'25 3° 8 29'53		asc. node	10290 Mar 19 00:59	17°° γ ′00'06 15° γ ′46'14	
asc. node evening set	10289 Apr 01 03:47 10289 Apr 05 12:46	1° 8 34'06		evening set min. Earth dist.	10290 Mar 20 18:44 10290 Mar 25 13:34	15°γ'46'14 10° Υ 11'39	0.68459 AU
evening set	10289 Apr 07 03:28	1 O 34 00		inferior conj	10290 Mar 26 05:13	9° Υ 18'10	0.08439 AU 2°07'25
inferior conj	10289 Apr 10 20:32	25° Υ 12'09	2°40'03	minimum elong	10290 Mar 26 03:13	9° Υ 25'39	2°06'44
minimum elong	10289 Apr 10 18:28	25° Υ 19'20	2°39'25	morning rise	10290 Mar 31 11:21	3°Υ14'20	
min. Earth dist.	10289 Apr 10 16:58	25° Υ 24'34	0.68622 AU	direct	10290 Apr 04 14:37	1° Y 37'59	
morning rise	10289 Apr 16 00:02	19° Y ′02'00		morning max el	10290 Apr 12 16:29	6° Y 13′52	20°37'26
direct	10289 Apr 20 16:40	17° Y 03'39		desc. node	10290 Apr 21 22:58	17° Y 32'56	
morning max el	10289 Apr 29 21:57	22° Y ′26'48	21°57'12		10290 Apr 30 15:21	9° 8	
desc. node	10289 May 05 02:08	28° Ƴ 17'12		morning set	10290 May 11 24:00	17° 8 14'26	

	10290 May 20 01:52	0°Щ			10291 Apr 03 17:57	0° Ƴ	
max. Earth dist.	10290 May 20 15:47	0° П 56'04	1.43411 AU	greatest brilliancy	10291 Apr 08 11:40	6° Υ 48'44	-0.7m
	Ž			desc. node	10291 Apr 08 19:47	7° Y 18'39	
superior conj	10290 May 27 05:41	11° Ⅱ 44′00	-2°05'27	morning set	10291 Apr 20 22:54	25° Y '42'28	
minimum elong	10290 May 27 10:41	12° Ⅱ 04'55	2°05'38		10291 Apr 23 17:38	0° 8	
	10290 Jun 06 20:56	0 \circ		max. Earth dist.	10291 May 03 04:44	14° 8 47'04	1.44825 AU
evening rise	10290 Jun 08 11:31	2° © 49'37					
asc. node	10290 Jun 14 23:25	14°5010'04	10004120	superior conj	10291 May 07 09:01	21° 8 25'40	
evening max el	10290 Jun 25 09:12 10290 Jun 26 08:15	29° © 06'41 0° Ω	18°04'28	minimum elong	10291 May 07 08:18 10291 May 12 16:23	21° 8 22'46 0° Ⅱ	2*13*13
retrograde	10290 Jul	0 3 <i>t</i> 2° Ω 28'40		evening rise	10291 May 12 16.23 10291 May 21 08:31	0 H 14°H21'04	
evening set	10290 Jul 04 12:28	1° Ω 55'53		evening rise	10291 May 30 19:06	0°95	
e venning see	10290 Jul 07 15:15	30°R.55		asc. node	10291 Jun 01 20:29	3° © 13'28	
inferior conj	10290 Jul 11 00:36	26°951'55	2°09'05	evening max el	10291 Jun 08 22:55	12° © 31'01	18°14'21
minimum elong	10290 Jul 11 03:25	26°5544'51	2°07'53	retrograde	10291 Jun 15 07:46	15° © 53'31	
min. Earth dist.	10290 Jul 14 02:13	23° 5 48'43	0.61541 AU	evening set	10291 Jun 18 06:15	15° 5 07'19	
morning rise	10290 Jul 17 15:59	20° 5 49'41		inferior conj	10291 Jun 24 05:54	9° © 45'35	2°50'28
desc. node	10290 Jul 18 22:32	20° © 01'54		minimum elong	10291 Jun 24 08:10	9° 5 39'12	2°49'34
direct	10290 Jul 24 07:58	18°531'29	25056156	min. Earth dist.	10291 Jun 26 18:50	6°954'57	0.63701 AU
morning max el	10290 Aug 07 13:22	26°532'38	27°56'56	morning rise	10291 Jun 30 08:37	3°530'48	
	10290 Aug 10 19:09 10290 Aug 31 05:59	0° N 0° N		desc. node direct	10291 Jul 05 19:40 10291 Jul 07 01:27	0°\$58'56 0°\$53'48	
morning set	10290 Aug 31 03:39 10290 Sep 09 23:28	18° Mp 37'15		morning max el	10291 Jul 07 01.27 10291 Jul 20 22:12	8°\$56'26	27°41'44
asc. node	10290 Sep	20° mp 41'18		morning max cr	10291 Aug 06 06:39	0°Ω	2/ 1111
	10290 Sep 15 08:11	0∘ ⊽			10291 Aug 23 13:13	0° m)	
max. Earth dist.	10290 Sep 15 15:51	0° ≏ 41'46	1.31805 AU	morning set	10291 Aug 24 18:11	2° m/23'07	
				asc. node	10291 Aug 28 20:18	10° m 44'15	
superior conj	10290 Sep 17 09:06	4° ≏ 27'55	1°00'08	max. Earth dist.	10291 Aug 29 16:54	12° m 32'22	1.32630 AU
minimum elong	10290 Sep 17 06:54	4° ≏ 15'52	0°59'45				
evening rise	10290 Sep 24 03:18	19° Ω 17'36		superior conj	10291 Sep 01 15:51	18° m 51'04	0°37'11
1 1	10290 Sep 29 07:18	0°M		minimum elong	10291 Sep 01 14:11	18° Mp 42'07	0°36'43
desc. node	10290 Oct 14 20:25 10290 Oct 19 02:53	25°M12'36 0°⊀		evening rise	10291 Sep 06 19:08 10291 Sep 08 14:46	0° ჲ 3° ჲ 54'44	
evening max el	10290 Oct 19 02:55 10290 Oct 19 22:56	0° х ¹49'06	24°47'00	evening rise	10291 Sep 08 14:40 10291 Sep 22 14:02	0°M	
retrograde	10290 Nov 02 18:24	7°×745'15	24 47 00	evening max el	10291 Oct 01 09:42	11° M L00'06	23°07'41
evening set	10290 Nov 08 05:33	6° ∡ ³38'23		desc. node	10291 Oct 01 17:40	11° M .19'15	
min. Earth dist.	10290 Nov 13 10:22	3° х 53′09	0.56686 AU	retrograde	10291 Oct 14 17:49	17° M 38'57	
inferior conj	10290 Nov 16 01:56	2° ∡ 10′53	-5°31'04	evening set	10291 Oct 18 18:34	17°ML03'34	
minimum elong	10290 Nov 16 07:02	2° ∡ °02'39	5°30'04	min. Earth dist.	10291 Oct 25 19:00	13°M49'38	0.55265 AU
	10290 Nov 19 15:54	30°RM		inferior conj	10291 Oct 27 07:49	12°M56'18	
morning rise	10290 Nov 24 10:47	28°M04'55		minimum elong	10291 Oct 27 05:32	12°M59'37	5°42'20
direct	10290 Nov 26 21:46	27°M48'08		morning rise	10291 Nov 04 18:17	9°M05'57	
morning max el	10290 Dec 03 12:54 10290 Dec 06 09:47	0°⊀ 2°⊀20'11	19°23'56	direct morning max el	10291 Nov 07 18:19 10291 Nov 18 19:13	8°M44'34 13°M57'10	20°40'08
asc. node	10290 Dec 07 23:36	3° x ⁷ 57'52	17 23 30	asc. node	10291 Nov 24 20:36	21°M 08'41	20 40 00
morning set	10290 Dec 23 12:44	29°×756'00		use. Houe	10291 Nov 30 08:22	0° ⊼	
S	10290 Dec 23 13:32	8°0		morning set	10291 Dec 07 20:07	14° ∡ °37'00	
superior conj	10290 Dec 31 14:20	16° る 00'58	1°13'00	superior conj	10291 Dec 15 07:05	0° る 03'27	1°29'08
minimum elong	10290 Dec 31 17:20	16°₹15'36	1°13'06	minimum elong	10291 Dec 15 09:15	0°る14'28	1°29'26
max. Earth dist.	10291 Jan 07 02:10	28°る17'35	1.38108 AU	E d Ed	10291 Dec 15 06:25	0°る	1.26010 ATT
evening rise	10291 Jan 08 00:42 10291 Jan 10 19:48	0° ≈ 4° ≈ 58'32		max. Earth dist. evening rise	10291 Dec 20 10:09 10291 Dec 24 08:11	10°る16'25 17°る41'22	1.36019 AU
desc. node	10291 Jan 10 19:48	4°≈55'56		desc. node	10291 Dec 24 08:11 10291 Dec 28 16:10	17 541 22 25°る28'22	
dese. Hode	10291 Jan 26 08:48	0° ∺		dese. Hode	10291 Dec 31 07:26	0°≈	
evening max el	10291 Feb 15 06:52	25°) 21'59	25°01'20		10292 Jan 20 15:53	0° ∀	
Č	10291 Feb 20 19:58	0° Y		evening max el	10292 Jan 28 20:19	9° ∺ 10'36	26°09'38
retrograde	10291 Feb 27 04:31	2° Y 17'04		retrograde	10292 Feb 10 13:48	16°) €24'29	
evening set	10291 Mar 04 21:10	29°) € 54'57		evening set	10292 Feb 16 18:20	13°) 54′00	
	10291 Mar 04 18:45	30° ₹		asc. node	10292 Feb 20 19:26	9° ¥ 40'17	
asc. node	10291 Mar 05 22:12	28°) 57'11	0.68000.455	min. Earth dist.	10292 Feb 20 23:12	9°) €28'49	0.66904 AU
min. Earth dist.	10291 Mar 09 08:25	24°) 55'10	0.67880 AU	inferior conj	10292 Feb 22 14:20	7°) € 27'58	0°34'49
inferior conj minimum elong	10291 Mar 10 11:49 10291 Mar 10 10:00	23° \(25'11 23° \(31'10	1°25'39 1°25'06	minimum elong morning rise	10292 Feb 22 13:27 10292 Feb 28 09:17	7°) 30'43 1°) 41'17	0°34'41
morning rise	10291 Mar 10 10:00 10291 Mar 15 23:07	17° ∺ 28'59	1 23 00	direct	10292 Feb 28 09:17 10292 Mar 02 13:00	0°) 44'44	
direct	10291 Mar 19 13:57	16° ¥ 13'45		morning max el	10292 Mar 02 13:00 10292 Mar 09 04:22		18°40'06
morning max el	10291 Mar 26 18:49	20°) 13′04	19°30'56	desc. node	10292 Mar 25 16:34	27°) €25'36	
-							

	10202 Mar. 27, 00.04	0° Υ			10202 E-L 20 10:15	1002012	10005157
morning set	10292 Mar 27 08:04 10292 Mar 30 12:37	0° γ 4° Υ 59'59		morning max el	10293 Feb 20 19:15 10293 Mar 01 11:54	18°≈28'36 0°) €	18°05'56
max. Earth dist.	10292 Mai 30 12.37 10292 Apr 14 22:31	29° Υ 07'29	1.45561 AU	morning set	10293 Mar 11 06:34	0 X 15° ¥ 42'46	
max. Lattii dist.	10292 Apr 14 22:31 10292 Apr 15 11:56	0° 8	1.43301 AU	desc. node	10293 Mar 12 13:19	17°) 47'52	
	10272 Apr 13 11.30	٥ ٠		desc. node	10293 Mar 20 02:57	0°Υ	
superior conj	10292 Apr 15 18:29	0° 8 25'35	-2°00'32		102)3 Wai 20 02.37	0 1	
minimum elong	10292 Apr 15 10:45	29° Y '55'19		superior conj	10293 Mar 26 01:59	9° Y 27'04	-1°29'31
evening rise	10292 May 01 05:43	24° 8 52'53		minimum elong	10293 Mar 25 16:45	8° Y 50'41	1°28'33
<i>5</i>	10292 May 04 10:29	0°II		max. Earth dist.	10293 Mar 28 18:39	13° Y '40'59	1.45552 AU
greatest brilliancy	10292 May 08 19:38	6° Ⅱ 59'27	-0.9m		10293 Apr 08 06:08	0° ႘	
asc. node	10292 May 18 17:35	21° Ⅱ 46′05		evening rise	10293 Apr 11 05:07	4° 8 34'56	
evening max el	10292 May 22 10:48	26° Ⅱ 06'36	18°42'12	greatest brilliancy	10293 Apr 23 22:35	24° 8 05'18	-0.7m
retrograde	10292 May 29 00:58	29° Ⅱ 43′06			10293 Apr 27 23:37	Π $^{\circ}0$	
evening set	10292 Jun 01 07:27	28° Ⅱ 42′03		asc. node	10293 May 05 14:44	9°∏37′24	
inferior conj	10292 Jun 06 22:24	23° Ⅱ 03'57	3°12'19	evening max el	10293 May 05 18:33	9° Ⅱ 47'06	19°26'57
minimum elong	10292 Jun 06 23:34	23° Ⅱ 00′24	3°11'44	retrograde	10293 May 12 22:13	13° Ⅱ 49′52	
min. Earth dist.	10292 Jun 08 20:23	20° Ⅱ 42'44	0.65555 AU	evening set	10293 May 16 13:09	12° Ⅱ 33'17	
morning rise	10292 Jun 12 14:54	16° Ⅱ 44'10		inferior conj	10293 May 21 22:45	6° Ⅱ 40′15	3°18'33
direct	10292 Jun 19 02:30	13° Ⅱ 59'47		minimum elong	10293 May 21 22:43	6° Ⅱ 40′23	3°18'07
desc. node	10292 Jun 21 16:44	14° ∏ 22'41		min. Earth dist.	10293 May 23 05:40	4° ∏ 58'40	0.66996 AU
morning max el	10292 Jul 02 08:44	21° Ⅱ 50'40	26°54'14	morning rise	10293 May 27 07:54	0°Ⅱ20′03	
	10292 Jul 09 11:27	0 \circ			10293 May 27 17:09	30°R 8	
	10292 Jul 29 11:53	0 $^{\circ}\Omega$		direct	10293 Jun 02 09:52	27° 8 39'18	
morning set	10292 Aug 07 02:35	15° Ω 37'34		desc. node	10293 Jun 08 13:44	29° 8 48'16	
max. Earth dist.	10292 Aug 11 08:40	23° Ω 58'36	1.33965 AU		10293 Jun 08 20:55	0°П	
	10292 Aug 14 07:28	0° m		morning max el	10293 Jun 14 19:04	5° Ⅱ 03'59	25°42'45
asc. node	10292 Aug 14 17:10	0° Mp 50'15			10293 Jul 03 22:36	0°©	
	10202 4 15 16 50	20m. 5.412.4	0000140	morning set	10293 Jul 20 20:48	28°909'54	
superior conj	10292 Aug 15 16:59	2° Mp 54'24	0°09'48	E d E d	10293 Jul 21 20:47	0°N	1 25772 ATT
minimum elong	10292 Aug 15 16:29	2° Mp 51'45	0°09'27	max. Earth dist.	10293 Jul 24 14:11	5~8706.56	1.35773 AU
behind sun begin behind sun end	10292 Aug 15 11:50	2° Mp 27'27		aumariar aani	10293 Jul 30 09:44	16° Ω 29'54	0021112
evening rise	10292 Aug 15 21:07 10292 Aug 23 01:05	3° Mp 16'04 18° Mp 25'52		superior conj minimum elong	10293 Jul 30 09.44 10293 Jul 30 11:02	16° Ω 36'25	
evening rise	10292 Aug 28 18:10	0° ⊽		asc. node	10293 Jul 30 11:02 10293 Aug 01 14:01	20°Ω54'53	0 21 16
evening max el	10292 Aug 28 18:10 10292 Sep 12 01:16	0 = 21° ⊆ 15'29	21020/28	asc. node	10293 Aug 01 14:01 10293 Aug 06 00:04	0°m)	
desc. node	10292 Sep 12 01:10 10292 Sep 17 14:56	25° Ω 31'53	21 30 30	evening rise	10293 Aug 07 08:03	ارات 2° الل 44'12	
retrograde	10292 Sep 17 14:30 10292 Sep 24 06:53	27° ≏ 20'01		evening rise	10293 Aug 23 06:32	0° <u>م</u>	
evening set	10292 Sep 26 23:04	27° ⊆ 03'42		evening max el	10293 Aug 25 04:50	ა _ 2° ჲ 05'00	20°08'39
inferior conj	10292 Oct 06 01:16	23° ₽ 07'20	-4°58'26	retrograde	10293 Sep 04 20:01	7° £ 21'40	
minimum elong	10292 Oct 05 16:14	23° Ω 19'59	4°56'21	desc. node	10293 Sep 04 12:11	7° ≏ 21'23	
min. Earth dist.	10292 Oct 06 02:25	23° ≏ 05'44	0.54632 AU	evening set	10293 Sep 06 18:46	7° ≙ 11'50	
morning rise	10292 Oct 14 10:20	19° ≏ 17'57		inferior conj	10293 Sep 15 19:46	3° △ 13'01	-3°24'06
direct	10292 Oct 18 03:38	18° ≏ 47'57		minimum elong	10293 Sep 15 10:56	3° ჲ 26′10	3°21'08
morning max el	10292 Oct 30 15:34	24° ≏ 44'35	22°16'23	min. Earth dist.	10293 Sep 17 11:27	2° ≏ 13'59	0.54940 AU
	10292 Nov 04 10:17	0° M			10293 Sep 21 15:49	30°R.Mp	
asc. node	10292 Nov 10 17:33	9° ™ 12'21		morning rise	10293 Sep 24 02:04	29° Mp 03'34	
morning set	10292 Nov 21 06:40	29°M24'35		direct	10293 Sep 28 13:57	28° m 19'53	
	10292 Nov 21 13:23	0° ∡			10293 Oct 05 06:46	0∘ ত	
				morning max el	10293 Oct 12 03:57	4° ≙ 58'27	24°03'25
superior conj	10292 Nov 28 08:24			asc. node	10293 Oct 28 14:27	27° ≏ 55'27	
minimum elong	10292 Nov 28 09:23	14° ∡ ³34′09	1°38'18		10293 Oct 29 17:23	0° ™	
max. Earth dist.	10292 Dec 02 00:54	22° ∡ 10′22	1.34231 AU	morning set	10293 Nov 05 18:26	14°M12'31	
	10292 Dec 05 22:44	0° ろ					
evening rise	10292 Dec 06 11:47	1°る03'29		superior conj	10293 Nov 12 15:22	29°M08'24	1°39'56
desc. node	10292 Dec 14 13:10	15°₹48'54		minimum elong	10293 Nov 12 15:09	29°M07'13	1°40'20
	10292 Dec 23 07:49	0°≈ 22050/20	27000152	E d E d	10293 Nov 13 00:52	0° 🗷	1 22051 ATT
evening max el	10293 Jan 10 09:54	22°≈50'29 0°) €	27°00'52	max. Earth dist.	10293 Nov 14 23:37	4° √ 12'09	1.32851 AU
ratrogrado	10293 Jan 21 18:20 10293 Jan 23 17:13	0° X 0° X 11'58		evening rise	10293 Nov 20 02:59 10293 Nov 28 01:15	14°柔55'00 0°る	
retrograde				desc node		0°5 5° る 51'17	
evening set	10293 Jan 25 14:34 10293 Jan 30 08:18	30°R≈ 27°≈37'55		desc. node	10293 Dec 01 10:14 10293 Dec 18 04:15	0°≈	
min. Earth dist.	10293 Jan 30 08:18 10293 Feb 03 07:37	27°≈37'33 23°≈46'42	0.65558 AU	evening max el	10293 Dec 18 04:15 10293 Dec 23 22:13	0°≈ 6°≈09'42	27°28'05
inferior conj	10293 Feb 03 07.37 10293 Feb 05 10:32	23 ≈40 42 21°≈21'45		retrograde	10294 Jan 06 14:05	0 ≈0942 13°≈31'06	21 20 03
minimum elong	10293 Feb 05 11:15	21°≈19'43		evening set	10294 Jan 13 12:43	13 ≈ 31 00 11° ≈ 00′10	
asc. node	10293 Feb 06 16:38	19° ≈ 57'14	~ = - * /	min. Earth dist.	10294 Jan 17 07:34	7° ≈ 40'41	0.63868 AU
morning rise	10293 Feb 11 15:29	15° ≈ 47'03		inferior conj	10294 Jan 19 21:51	5° ≈ 00'18	
direct	10293 Feb 14 09:41	15°≈05'52		minimum elong	10294 Jan 20 00:47	4°≈52'42	
					/		-

asc. node	10294 Jan 24 13:47	0° ≈ 47'33		asc. node	10295 Jan 11 10:54	12° る 55'46	
	10294 Jan 25 21:34	30°₹る		direct	10295 Jan 12 08:32	12° る 52'10	
morning rise	10294 Jan 26 14:49	29° る 40'30		morning max el	10295 Jan 19 05:34	16° る 21'22	17°49'49
direct	10294 Jan 29 01:17	29° る 11'04			10295 Jan 28 20:03	0° ≈	
	10294 Feb 01 04:27	0° ≈		morning set	10295 Feb 03 23:38	10° ≈ 51'32	
morning max el	10294 Feb 04 12:44	2° ≈ 32'09	17°48'59	desc. node	10295 Feb 14 06:55	29° ≈ 00'29	
morning set	10294 Feb 21 04:17	27°≈46'34			10295 Feb 14 20:51	0° ∀	
•	10294 Feb 22 11:35	0° ∀					
desc. node	10294 Feb 27 10:07	8°) €21'00		superior conj	10295 Feb 15 01:26	0° ¥ 19'31	-0°05'51
				minimum elong	10295 Feb 15 00:54	0° ¥ 17'16	0°05'30
superior conj	10294 Mar 06 01:27	19° ₩ 18'10	-0°48'05	behind sun begin	10295 Feb 14 16:43	29° ≈ 42'21	
minimum elong	10294 Mar 05 20:15	18°) 57'00		behind sun end	10295 Feb 15 09:06	0° ¥ 52'07	
max. Earth dist.	10294 Mar 11 13:52	28° \(\) 09'15	1.44807 AU	max. Earth dist.	10295 Feb 22 05:24	12° X 14'23	1.43414 AU
max. Earth dist.		26 χ 0913	1.44607 AU			23° H 35'14	1.43414 AU
	10294 Mar 12 17:51	0° γ 13° Υ 56'31		evening rise	10295 Mar 01 08:39	23°π35'14 0°Υ	
evening rise	10294 Mar 21 17:02				10295 Mar 05 12:27		
	10294 Apr 01 08:06	0° 8	2002		10295 Mar 26 12:20	0°8	21020120
evening max el	10294 Apr 18 20:49	23° 8 29'19	20°26'41	evening max el	10295 Apr 01 17:34	7° 8 12'19	21°38'20
asc. node	10294 Apr 22 11:53	26° 8 34'58		asc. node	10295 Apr 09 09:05	12° 8 23'19	
retrograde	10294 Apr 26 20:58	28° 8 08'25		retrograde	10295 Apr 10 19:11	12° 8 33'16	
evening set	10294 Apr 30 21:07	26° 8 36'11		evening set	10295 Apr 15 05:32	10° 8 45'43	
inferior conj	10294 May 06 04:13	20° 8 29'57	3°12'00	inferior conj	10295 Apr 20 12:29	4° 8 28'38	2°54'34
minimum elong	10294 May 06 03:09	20° 8 33'37	3°11'33	minimum elong	10295 Apr 20 10:41	4° 8 34'54	2°54'01
min. Earth dist.	10294 May 06 20:58	19° 8 32'31	0.67984 AU	min. Earth dist.	10295 Apr 20 16:09	4° 8 15'52	0.68518 AU
morning rise	10294 May 11 08:57	14° 8 12'10			10295 Apr 23 22:26	30° ŖƳ	
direct	10294 May 16 22:41	11° 8 43'38		morning rise	10295 Apr 25 15:38	28° Ƴ 15'04	
desc. node	10294 May 26 10:39	16° 8 46'11		direct	10295 Apr 30 16:02	26° Y ′04'37	
morning max el	10294 May 28 04:43	18° 8 27'55	24°17'05		10295 May 08 12:59	0°8	
moning man vi	10294 Jun 06 21:37	0°Ⅱ	2. 1, 00	morning max el	10295 May 10 15:08		22°47'08
	10294 Jun 27 00:35	0.බ ⊙ ව		desc. node	10295 May 13 07:33	4° 8 51'13	22 17 00
morning set	10294 Jul 02 20:10	9° © 48'42		dese. Hode	10295 May 31 20:50	0°Ⅱ	
max. Earth dist.	10294 Jul 06 12:17	16°9917'30	1.37926 AU	mamina aat	10295 Jun 13 19:28	20° Ⅱ 20'10	
max. Earm dist.	10294 Jul 00 12.17	10 91/30	1.3/920 AU	morning set			1 40211 ATT
	10204 7 1 12 14 50	200520140	0054110	max. Earth dist.	10295 Jun 18 09:13	28° Ⅱ 00'21	1.40211 AU
superior conj	10294 Jul 13 14:50	29°529'49			10295 Jun 19 13:07	0₀ ©	
minimum elong	10294 Jul 13 18:23	29°5546'56	0°54'01				
	10294 Jul 13 21:07	0 $^{\circ}$ Ω		superior conj	10295 Jun 26 04:10	11° © 44'13	
asc. node	10294 Jul 19 10:55	10° Ω 54'42		minimum elong	10295 Jun 26 09:51	12° © 10'07	1°26'17
evening rise	10294 Jul 22 09:11	16° Ω 43'14			10295 Jul 05 22:18	0 \circ Ω	
	10294 Jul 29 08:16	0° m y		evening rise	10295 Jul 06 01:17	0° Ω 14'11	
evening max el	10294 Aug 07 21:58	13° m /41'22	19°07'18	asc. node	10295 Jul 06 07:51	0° Ω 45′20	
retrograde	10294 Aug 16 21:33	18° Mp 09′25		evening max el	10295 Jul 22 01:54	26° Ω 00′39	18°27'11
evening set	10294 Aug 18 18:13	17° m 58'41		retrograde	10295 Jul 29 17:35	29° Ω 50'47	
desc. node	10294 Aug 22 09:23	16° Mp 42′26		evening set	10295 Jul 31 20:02	29° Ω 34'16	
inferior conj	10294 Aug 27 05:00	13° Mp 46'00	-1°29'49	inferior conj	10295 Aug 08 11:30	25° Ω 02'02	0°14'28
minimum elong	10294 Aug 27 01:04	13° m 52'41	1°28'27	minimum elong	10295 Aug 08 12:02	25° Ω 01′00	0°13'59
min. Earth dist.	10294 Aug 30 00:38	11° mp 51'25	0.56146 AU	transit middle	10295 Aug 08 12:02	25° Ω 01'00	0°13'59
morning rise	10294 Sep 04 04:54	9° m) 01'07		transit begin	10295 Aug 08 10:15	25° Ω 04'32	
direct	10294 Sep 09 12:11	7° mp 55'40		transit end	10295 Aug 08 13:48	24° Ω 57'27	
morning max el	10294 Sep 23 16:18	15° Mp 09'28	25°44'58	desc. node	10295 Aug 09 06:35	24° Ω 23'53	
morning max cr	10294 Oct 05 13:57	ე° ი	23 44 36	min. Earth dist.	10295 Aug 11 19:32		0.58021 AU
1-					-		0.36021 AU
asc. node	10294 Oct 15 11:18	17° Ω 08'19		morning rise	10295 Aug 16 00:28	19° Ω 40'33	
morning set	10294 Oct 21 05:43	28° £ 56'12		direct	10295 Aug 22 01:19	18° Ω 06'27	25002150
	10294 Oct 21 17:37	0° M		morning max el	10295 Sep 05 09:59	25° Ω 45'37	27°03'58
					10295 Sep 09 09:19	0° m)	
superior conj	10294 Oct 28 01:42	13°M55'06			10295 Sep 28 21:53	0∘ ⊽	
minimum elong	10294 Oct 28 00:28	13° M 48'17	1°36'08	asc. node	10295 Oct 02 08:09	6° ≏ 43'11	
max. Earth dist.	10294 Oct 29 04:52	16° ™ 25'05	1.31936 AU	morning set	10295 Oct 05 14:54	13° ≏ 31'12	
evening rise	10294 Nov 04 02:45	29° ™ 08'17					
	10294 Nov 04 12:43	0° ∡ ¹		superior conj	10295 Oct 12 13:27	28° ≏ 43'07	1°26'12
desc. node	10294 Nov 18 07:20	25° ₹ 27'40		minimum elong	10295 Oct 12 11:30	28° ≏ 32'20	1°26'11
	10294 Nov 21 04:40	5°0		max. Earth dist.	10295 Oct 12 13:51	28° ≏ 45'22	1.31504 AU
evening max el	10294 Dec 06 07:14	18° る 55'23	27°25'04		10295 Oct 13 03:16	0° M	
retrograde	10294 Dec 20 03:47	26° ට 11'48		evening rise	10295 Oct 19 08:32	13°M36'45	
evening set	10294 Dec 27 04:31	23° る 52'56			10295 Oct 27 13:58	0° ₹	
min. Earth dist.	10294 Dec 30 21:27	20° ප් 59'33	0.61905 AU	desc. node	10295 Nov 05 04:29	14° × 27'54	
inferior conj	10294 Dec 30 21:27 10295 Jan 02 21:10	20 3 3933		dese. Houe	10295 Nov 17 11:04	14 メ ・27 34 0° る	
		18°る13'23		avamir 1			26040100
minimum elong	10295 Jan 03 02:43		Z-45'49	evening max el	10295 Nov 18 10:35	0° ろ 56'58	26°48'09
morning rise	10295 Jan 10 03:24	13° る 13'34		retrograde	10295 Dec 02 08:59	8° る 05'42	

	10205 D 00 02.52	(0 Z 00157			1020CNI 12 02-20	100.707114	
evening set	10295 Dec 09 03:52	6°る08'57 3°る31'20	0.59800 AU	retrograde	10296 Nov 13 03:29	19° х 07'14 17° х 41'03	
min. Earth dist.	10295 Dec 13 00:52	3 3 31 20 0° る 58'37		evening set min. Earth dist.	10296 Nov 19 05:56	17 x ·41 03 15° x 04'00	0.57747 AU
inferior conj minimum elong	10295 Dec 16 05:07 10295 Dec 16 12:44	0°る3837		inferior conj	10296 Nov 23 18:27 10296 Nov 26 18:15	13 x ·04 00 12° x 759′15	
minimum ciong	10295 Dec 17 10:39	0°R√7	3 3/40	minimum elong	10296 Nov 27 01:34	12° × ⁷ 46'31	5°03'08
morning rise	10295 Dec 24 00:16	26° ₹ 17'21		morning rise	10296 Nov 27 01.34 10296 Dec 04 23:31	8° × ⁷ 40'27	3 03 08
direct	10295 Dec 26 03:30	26° × 1721 26° × 100'23		direct	10296 Dec 07 06:02	8°×724'28	
asc. node	10295 Dec 29 07:59	26° × 40'04		asc. node	10296 Dec 15 05:03	11° × ⁷ 55'38	
asc. Houc	10296 Jan 02 23:35	20 メ 40 04 0°る		morning max el	10296 Dec 15 03:03	12° × ⁷ 37'11	18°50'24
morning max el	10296 Jan 02 18:17	0 ℃ 29° ҂ 46'53	18°09'41	morning max ci	10296 Dec 27 16:23	12 × 3/11 0°る	18 30 24
morning set	10296 Jan 18 10:30	24°る39'33	18 0941	morning set	10290 Dec 27 10:23 10297 Jan 01 07:59	8° ろ 55'43	
morning sec	10296 Jan 21 06:45	0°≈		morning set	102)/ 3411 01 07.5)	0 000 40	
	102)0 Juli 21 00.43	0 /01		superior conj	10297 Jan 09 20:55	25° ප 31'27	1°00'04
superior conj	10296 Jan 28 01:24	12° ≈ 28'19	0°31'04	minimum elong	10297 Jan 10 00:02	25° ♂ 46'17	1°00'05
minimum elong	10296 Jan 28 03:41	12°≈38'34	0°31'05	minimum ciong	10297 Jan 10 00:02	0°≈	1 00 03
desc. node	10296 Feb 01 03:47	12 ≈30 54 19°≈42'57	0 31 03	max. Earth dist.	10297 Jan 12 00:10 10297 Jan 16 23:32	0 ~ 8° ≈ 33'41	1.39380 AU
max. Earth dist.	10296 Feb 04 16:21	25°≈44'36	1.41536 AU	desc. node	10297 Jan 18 00:40	0 ≈3341 10°≈24'16	1.37360 AC
max. Lattii dist.	10296 Feb 07 05:37	0°¥	1.41330 AO	evening rise	10297 Jan 20 21:50	15°≈22'31	
evening rise	10296 Feb 09 16:36	4° ₩ 00'51		evening rise	10297 Jan 20 21:30 10297 Jan 29 21:45	0° \	
evening rise	10296 Feb 26 19:33	0° Υ			10297 Feb 20 14:16	0° Υ	
evening max el	10296 Mar 14 10:03	20° Υ 57'50	22°57'12	evening max el	10297 Feb 25 14:10 10297 Feb 25 00:09	4° Υ 46'19	24°17'24
retrograde	10296 Mar 24 15:12	27° Υ 00'12	22 37 12	retrograde	10297 Mar 08 07:47	11° Υ 24'18	24 1/24
asc. node	10296 Mar 26 06:16	26° Υ 47'21		asc. node	10297 Mar 13 03:30	9° Υ 36'59	
evening set	10296 Mar 29 12:50	$24^{\circ}\Upsilon_{57'59}$		evening set	10297 Mar 13 03:30 10297 Mar 13 17:30	9° Υ 08'46	
inferior conj	10296 Apr 03 21:35	18° Y 33'02	2°27'22	min. Earth dist.	10297 Mar 18 09:01	3° Υ 49'04	0.68265 AU
minimum elong	10296 Apr 03 19:25	18 γ 33 02	2°26'41	inferior conj	10297 Mar 18 05:01 10297 Mar 19 05:37	2° Υ 39'41	1°50'52
min. Earth dist.	10296 Apr 03 12:54	19° Υ 03'05	0.68608 AU	minimum elong	10297 Mar 19 03:31	2 γ 3941 2° Υ 46'45	1°50'11
morning rise	10296 Apr 09 01:52	19 γ 03 03 12° γ 25'09	0.08008 AU	minimum clong	10297 Mar 19 03:31 10297 Mar 21 06:29	2 1 40 43 30°R) €	1 30 11
direct	10296 Apr 13 12:47	12 γ 25 09 10° γ 35'55		morning rise	10297 Mar 21 00:29 10297 Mar 24 13:38	26° ₩ 38'55	
morning max el	10296 Apr 13 12:47 10296 Apr 22 05:43	15° Υ 38'04	21°21'45	direct	10297 Mar 24 13:36 10297 Mar 28 11:36	25° H 11'33	
desc. node	10296 Apr 22 03.43 10296 Apr 29 04:27	23° Y 45'08	21 21 43	morning max el	10297 Mai 28 11.30 10297 Apr 05 03:25	29° H 29'58	20°07'21
desc. node	10296 May 03 19:47	0° 8		morning max er	10297 Apr 05 05.23 10297 Apr 05 15:20	29 Λ 2936	20 0/21
morning set	10296 May 03 19.47 10296 May 23 16:06	29° 8 39'03		desc. node	10297 Apr 03 13.20 10297 Apr 16 01:18	0 ¶ 13° Υ 14'39	
morning set	10296 May 23 21:24	29 O 3903		desc. Hode	10297 Apr 10 01:18 10297 Apr 27 09:22	0° 8	
max. Earth dist.	10296 May 30 11:28	0 H 10°H36'21	1.42357 AU	morning set	10297 Apr 27 09:22 10297 May 02 17:23	8° 8 09'28	
max. Earth dist.	10290 Way 30 11.28	10 11 30 21	1.42337 AU	max. Earth dist.	10297 May 02 17:23 10297 May 12 21:22	24° 8 05'52	1.44093 AU
superior conj	10296 Jun 06 21:12	23° II 03'04	-1°54'05	max. Lartii dist.	10297 May 12 21:22 10297 May 16 13:22	0°II	1.440/3 AO
minimum elong	10296 Jun 07 03:27	23° II 29'58			102)/ Way 10 13.22	νш	
minimum ciong	10296 Jun 10 20:54	0°9	1 3401	superior conj	10297 May 18 14:21	3° Ⅱ 19'36	2°10'46
evening rise	10296 Jun 18 04:23	13°907'07		minimum elong	10297 May 18 14.21 10297 May 18 17:27	3° I I32'16	
asc. node	10296 Jun 22 04:50	20°922'06		evening rise	10297 May 18 17:27 10297 May 31 13:47	25° Ⅱ 11'40	2 11 03
asc. Houc	10296 Jun 27 20:05	0°Ω		evening rise	10297 Jun 03 08:43	0°9	
evening max el	10296 Jul 04 12:33	8° Ω 52'46	18°07'12	asc. node	10297 Jun 09 01:52	9° 9 39'50	
retrograde	10296 Jul 11 07:39	12°Ω20'17	16 07 12	evening max el	10297 Jun 18 02:08	22° © 08'09	18°06'22
evening set	10296 Jul 13 17:55	11° Ω 54'09		retrograde	10297 Jun 18 02:08 10297 Jun 24 11:50	25°S28'28	10 0022
inferior conj	10296 Jul 20 15:03	7° Ω 01'20	1°34'42	evening set	10297 Jun 27 05:54	24°950'02	
minimum elong	10296 Jul 20 17:38	6° Ω 55'22	1°33'29	inferior conj	10297 Jul 27 03:34 10297 Jul 03 12:12	19°938'03	2°29'18
min. Earth dist.	10296 Jul 23 21:41	4°Ω00'42	0.60243 AU	minimum elong	10297 Jul 03 14:54	19° © 30'55	2°28'11
desc. node	10296 Jul 26 03:47	2° Ω 10′29	5.002 15 110	min. Earth dist.	10297 Jul 06 08:47	16°938'06	0.62493 AU
morning rise	10296 Jul 27 14:26	1°Ω11'13		morning rise	10297 Jul 09 22:00	13° © 29'35	0.02 193 110
morning rise	10296 Jul 29 21:13	30°Rூ		desc. node	10297 Jul 13 00:57	11°5643'59	
direct	10296 Aug 03 03:07	29° 5 07'47		direct	10297 Jul 16 15:10	11°502'26	
unect	10296 Aug 07 13:09	0°Ω		morning max el	10297 Jul 30 17:20	19°504'34	27°54'52
morning max el	10296 Aug 17 10:39	7° Ω 02'38	27°48'40	morning max er	10297 Aug 08 23:19	0°Ω	27 3132
morning max cr	10296 Sep 03 19:05	0° m	27 4040		10297 Aug 27 17:02	0° m	
asc. node	10296 Sep 18 04:59	26° m/32'52		morning set	10297 Sep 02 19:26	11° m 52'06	
morning set	10296 Sep 18 04:39	20° m/ 52'32 27° m/ 51'33		asc. node	10297 Sep 02 13:20 10297 Sep 05 01:50	16° Mp 32'22	
morning soc	10296 Sep 19 20:37	0° ⊽		max. Earth dist.	10297 Sep 03 01:30 10297 Sep 08 04:13	23° m 07'22	1.32103 AU
max. Earth dist.	10296 Sep 19 20.37 10296 Sep 24 22:54	0 == 11° ⊆ 02'49	1.31558 AU	man. Darui dist.	1027/ Sep 00 04.13	22/ ۱۷ پر ۱۱ د ک	1.52105 AU
max. Darui dist.	10270 Sep 2+ 22.34	11 -0249	1.51550 AU	superior conj	10297 Sep 10 09:41	27° m 57'40	0°50'58
superior conj	10296 Sep 26 00:43	13° ≏ 25'44	1°11'08	minimum elong	10297 Sep 10 07:39	27° Mp 46'32	0°50'33
minimum elong	10296 Sep 25 00:43	13° ⊆ 13'19	1°10'52		10297 Sep 10 07:39 10297 Sep 11 08:02	27 III +0 32 0° Ω	,
evening rise	•	28° £ 13′03	. 1032	evening rise	10297 Sep 17 08:02 10297 Sep 17 05:23	0 = 12° £ 51'46	
Cvennig 1150	10796 Oct 07 18:03			C 1 CHIHE 113C	10271 BCP 11 UJ.23	12 -5140	
	10296 Oct 02 18:03			Ü		o∘m.	
	10296 Oct 03 14:04	0°M			10297 Sep 25 18:36	0°ጤ 19° ጤ 35'26	
desc node	10296 Oct 03 14:04 10296 Oct 20 04:55	0°M 0° √		desc. node	10297 Sep 25 18:36 10297 Oct 08 22:53	19°M35'26	24°05'25
desc. node evening max el	10296 Oct 03 14:04	0°M	25°38'34		10297 Sep 25 18:36		24°05'25

	10207.0 . 20 07.20	200M 20120		. 1	10200 0 . 06 04 20	00% 05145	
evening set	10297 Oct 30 07:29	28°M28'38		retrograde	10298 Oct 06 04:29	9° M 05'47	
min. Earth dist.	10297 Nov 05 04:49	25°M33'28	0.56010 AU	evening set	10298 Oct 09 14:11	8°M40'12	
inferior conj	10297 Nov 07 10:52	24° M 10′58	-5°42'06	min. Earth dist.	10298 Oct 17 12:20	5°M09'13	0.54887 AU
minimum elong	10297 Nov 07 13:16	24° ™ 07'19	5°41'36	inferior conj	10298 Oct 18 10:04	4° M .38′29	-5°31'06
morning rise	10297 Nov 15 21:03	20°M₁3′02		minimum elong	10298 Oct 18 04:21	4°M46'36	5°30'10
direct	10297 Nov 18 13:10	19° M 54'37		morning rise	10298 Oct 26 20:11	0°M51'12	
morning max el	10297 Nov 28 16:07	24°M42'33	19°53'39	direct	10298 Oct 30 03:04	0°M26'51	
asc. node	10297 Dec 02 02:04	28°M28'44	1, 000,	morning max el	10298 Nov 10 19:47	5°M57'46	21°19'08
ase. Hode		0° √		asc. node		16°ML03'31	21 1700
	10297 Dec 03 06:05			asc. node	10298 Nov 18 23:02		
morning set	10297 Dec 16 12:32	23° × 29'45			10298 Nov 26 20:18	0° ∡ ¹	
	10297 Dec 19 17:07	0°₹		morning set	10298 Nov 30 21:30	8° ∡ 14'14	
	10207 D 24 07:00	00=15141	1920147		10200 D 00 02.50	220.720120	1°33'42
superior conj	10297 Dec 24 07:08	9° 3 15'41		superior conj	10298 Dec 08 03:56	23° х 29'20	
minimum elong	10297 Dec 24 09:51	9° る 29'10	1°20'59	minimum elong	10298 Dec 08 05:37	23° ∡ 38′03	1°34'04
max. Earth dist.	10297 Dec 30 05:58	20° ろ 46'24	1.37193 AU		10298 Dec 11 08:17	0°ಕ	
evening rise	10298 Jan 02 23:40	27° る 37'26		max. Earth dist.	10298 Dec 12 16:17	2° る 40'09	1.35205 AU
	10298 Jan 04 07:44	0° ≈		evening rise	10298 Dec 16 18:58	10° る 37'59	
desc. node	10298 Jan 04 21:35	1° ≈ 00'50		desc. node	10298 Dec 22 18:32	21° る 28'40	
	10298 Jan 23 07:47	0° ∀			10298 Dec 27 20:11	0° ≈	
evening max el	10298 Feb 07 13:26	18° ¥ 35'32	25°32'03		10299 Jan 18 19:18	0° ∀	
retrograde	10298 Feb 19 19:56	25°) 39'40		evening max el	10299 Jan 21 02:46	2°) 20'48	26°33'57
evening set	10298 Feb 25 17:53	23° X 13'16		retrograde	10299 Feb 03 02:55	9°) 39'53	20 33 37
-		20°\(\)\(\)\(\)57'46		-	10299 Feb 09 12:16	9 X 39 33 7° X 06′50	
asc. node	10298 Feb 28 00:44		0.68511.477	evening set			0.66260.477
min. Earth dist.	10298 Mar 02 02:15	18° ¥ 28'35	0.67511 AU	min. Earth dist.	10299 Feb 13 14:31	2° ¥ 56′28	0.66369 AU
inferior conj	10298 Mar 03 10:42	16° ¥ 44'35	1°05'12	asc. node	10299 Feb 14 21:57	1°) 22′42	
minimum elong	10298 Mar 03 09:12	16°) 49′25	1°04'47	inferior conj	10299 Feb 15 10:48	0°) 44′05	0°10'32
morning rise	10298 Mar 09 00:58	10° ¥ 52′28		minimum elong	10299 Feb 15 10:30	0°) 44'57	0°10'41
direct	10298 Mar 12 10:57	9°) 45′32		transit middle	10299 Feb 15 10:30	0°) 44'57	0°10'41
morning max el	10298 Mar 19 09:01	13°) 32′42	19°07'24	transit begin	10299 Feb 15 08:20	0° ¥ 51′28	
S	10298 Mar 31 19:44	$0^{\circ}\Upsilon$		transit end	10299 Feb 15 12:41	0°) 38′27	
greatest brilliancy	10298 Apr 01 13:24	1° Υ 06'18	-0.7m	transit tra	10299 Feb 16 01:35	30°R≈	
desc. node	10298 Apr 02 22:06	3° Υ '09'45	-0.7111	morning rise	10299 Feb 21 09:45	25°≈02'26	
	-			-			
morning set	10298 Apr 11 19:58	16° Y 51′09		direct	10299 Feb 24 09:07	24°≈13'02	
	10298 Apr 20 07:10	0° 8		morning max el	10299 Mar 02 21:14	27° ≈ 41'37	18°23'35
max. Earth dist.	10298 Apr 25 13:09	8° 8 12'56	1.45223 AU		10299 Mar 05 00:14	0° ∀	
				desc. node	10299 Mar 20 18:52	23° ∺ 23'45	
superior conj	10298 Apr 28 08:37	12° 8 38'46	-2°10'11	morning set	10299 Mar 22 20:57	26°) 43′01	
minimum elong	10298 Apr 28 04:39	12° 8 23'05	2°10'22		10299 Mar 24 22:31	$0^{\circ}\mathbf{\Upsilon}$	
•	10298 May 09 04:23	$\Pi^{\circ}0$					
evening rise	10298 May 13 00:54	6° Ⅱ 17'54		superior conj	10299 Apr 07 14:55	21° Y 33'05	-1°49'18
asc. node	10298 May 26 22:57	28° I I31'06		minimum elong	10299 Apr 07 05:39	20° Υ 56'51	
use. Houe	10298 May 28 00:03	0°95		max. Earth dist.	10299 Apr 08 07:57	22° Υ 39'42	1.45641 AU
	-	5° © 37'41	10022150	max. Earm dist.	•		1.43041 AU
evening max el	10298 Jun 01 15:20		18°23'58		10299 Apr 13 00:38	0°8	
retrograde	10298 Jun 08 01:27	9° © 04'50		evening rise	10299 Apr 23 12:08	16° 8 26'01	
evening set	10298 Jun 11 03:16	8° © 12'26			10299 May 02 03:30	Π °0	
inferior conj	10298 Jun 16 22:45	2° 5 43'17	3°01'52	greatest brilliancy	10299 May 03 11:59	2° Ⅱ 05'51	-0.8m
minimum elong	10298 Jun 17 00:34	2° © 37'55	3°01'06	asc. node	10299 May 13 20:03	16° Ⅱ 47'24	
min. Earth dist.	10298 Jun 19 05:19	0°903'40	0.64532 AU	evening max el	10299 May 16 01:37	19° Ⅱ 15′24	18°59'13
	10298 Jun 19 06:36	30° Ŗ Ⅱ		retrograde	10299 May 22 20:48	23° Ⅱ 02'04	
morning rise	10298 Jun 22 20:46	26° Ⅲ 25′25		evening set	10299 May 26 06:40	21° ∏ 54'38	
direct	10298 Jun 29 11:49	23° Ⅲ 44'11		inferior conj	10299 May 31 18:59	16° Ⅱ 09'59	3°16'39
desc. node	10298 Jun 29 22:03	23° I I44'48		minimum elong	10299 May 31 19:37	16° Ⅱ 07'58	3°16'09
desc. node	10298 Jul 11 08:40	0°95		min. Earth dist.	10299 Jun 02 10:31	14° I I04'30	0.66218 AU
			27925105				0.00218 AU
morning max el	10298 Jul 13 03:27	1° © 43'36	27°25'05	morning rise	10299 Jun 06 07:58	9° Ⅱ 49'17	
	10298 Aug 03 04:02	0 ° Ω		direct	10299 Jun 12 15:49	7° I 105'03	
morning set	10298 Aug 17 10:10	25° Ω 25'36		desc. node	10299 Jun 16 19:07	8° Ⅱ 03'30	
	10298 Aug 19 17:22	0° m)		morning max el	10299 Jun 25 14:12	14° Ⅱ 47'35	26°26'09
max. Earth dist.	10298 Aug 22 01:53	4° Mp 48'43	1.33144 AU		10299 Jul 08 00:21	0 \circ \odot	
asc. node	10298 Aug 22 22:41	6° Mp 36′49			10299 Jul 26 22:47	$0^{\circ}\Omega$	
	-			morning set	10299 Jul 31 13:05	8° Ω 23'40	
superior conj	10298 Aug 25 14:19	12° m) 12'46	0°26'04	max. Earth dist.	10299 Aug 04 13:02		1.34680 AU
minimum elong	10298 Aug 25 13:04	12° m) 06'06	0°25'38	Januar dist.		000132	
evening rise	10298 Aug 23 13:04 10298 Sep 01 16:37	27° m/26'50	0 20 00	superior conj	10299 Aug 09 12:15	26° Ω 04'58	-0.03,00
evening rise	-				-		
	10298 Sep 02 21:38	0∘ 亚		minimum elong	10299 Aug 09 12:26	26° Ω 05'55	0°03'16
	10298 Sep 20 17:56	0° M ₊		behind sun begin	10299 Aug 09 06:38	25° Ω 36'06	
evening max el	10298 Sep 23 05:36	2°M38′38	22°25'00	behind sun end	10299 Aug 09 18:13	26° Ω 35'46	
desc. node	10298 Sep 25 20:06	4°M57'06		asc. node	10299 Aug 09 19:33	26° Ω 42'37	

	10299 Aug 11 09:36	0° m)		asc. node	10300 Jul 27 16:23	16° Ω 45'43	
evening rise	10299 Aug 17 01:46	11° m 52'57		evening rise	10300 Aug 01 06:36	26° Ω 04'10	
	10299 Aug 26 10:54	0∘ ⊽			10300 Aug 03 05:36	0° m	
evening max el	10299 Sep 05 01:42	13° ≙ 05'51	20°53'24	evening max el	10300 Aug 18 11:26	24° Mp 16'24	19°40'01
desc. node	10299 Sep 12 17:21	18° ≙ 11'41		retrograde	10300 Aug 28 09:03	29° m 11'03	
retrograde	10299 Sep 16 16:15	18° £ 51'12		evening set	10300 Aug 30 05:34	29° m 01'28	
evening set	10299 Sep 18 22:29	18° ♀ 39'00	4922105	desc. node	10300 Aug 30 14:36	28° M 57'17	2027/05
inferior conj minimum elong	10299 Sep 28 02:10 10299 Sep 27 16:18	14° Ω 43'24 14° Ω 57'26	4°20'18	inferior conj minimum elong	10300 Sep 08 01:44 10300 Sep 07 18:45	24° m 58'18 25° m 09'13	-2°33'35
min. Earth dist.	10299 Sep 27 10:18 10299 Sep 28 20:32	14 = 37 20 14° £ 17'16	0.54643 AU	min. Earth dist.	10300 Sep 07 18.43	23° m/ 34'45	0.55356 AU
morning rise	10299 Oct 06 10:14	10° Ω 47'32	0.54045710	morning rise	10300 Sep 16 07:17	20° m) 34'57	0.55550710
direct	10299 Oct 10 11:05	10° ♀ 12'33		direct	10300 Sep 21 02:21	19° m 42'44	
morning max el	10299 Oct 23 11:59	16° ≏ 28'26	23°01'27	morning max el	10300 Oct 04 23:21	26° m/37'26	24°48'10
	10299 Nov 03 04:01	0°M			10300 Oct 08 05:29	0∘ ত	
asc. node	10299 Nov 05 19:57	4°M25'15		asc. node	10300 Oct 23 16:49	23° م 22'28	
morning set	10299 Nov 15 08:46	23°M02'20			10300 Oct 27 02:22	0° M	
	10299 Nov 18 14:38	0° ⊼		morning set	10300 Oct 30 20:33	7° ጤ 49'19	
superior conj	10299 Nov 22 07:58	8° ∡ 01'49	1°39'32	superior conj	10300 Nov 06 16:40	22°M45'29	1°38'57
minimum elong	10299 Nov 22 08:26	8° ∡ 104'17	1°39'57	minimum elong	10300 Nov 06 15:59	22°M41'46	1°39'16
max. Earth dist.	10299 Nov 25 10:07	14° ∡ °34'51	1.33584 AU	max. Earth dist.	10300 Nov 08 12:01	26°M42'15	1.32411 AU
evening rise	10299 Nov 30 03:56	24° ∡ 13'47			10300 Nov 10 00:39	0° ∡ ¹	
	10299 Dec 03 03:35	ರ∘ರ		evening rise	10300 Nov 13 23:12	8° ∡ 16′12	
desc. node	10299 Dec 09 15:31	11° る 42'02			10300 Nov 25 14:02	0° ろ	
	10299 Dec 21 09:38	0° ≈		desc. node	10300 Nov 26 12:36	1° る 34'30	
evening max el	10300 Jan 03 15:55	15°≈52'59	27°15'50	evening max el	10300 Dec 17 03:23	29° る 00'22	27°30'47
retrograde	10300 Jan 17 03:51	23°≈16'02		. 1	10300 Dec 18 05:15	0° ≈	
evening set min. Earth dist.	10300 Jan 23 22:28 10300 Jan 27 19:40	20°≈42'24 17°≈04'57	0.64870 AU	retrograde evening set	10300 Dec 30 21:45 10301 Jan 06 21:54	6°≈19'30 3°≈52'55	
inferior conj	10300 Jan 27 19:40 10300 Jan 30 03:32	17 ≈04 37 14°≈32'02		min. Earth dist.	10301 Jan 00 21:34 10301 Jan 10 15:40	0°≈45'06	0.63064 AU
minimum elong	10300 Jan 30 05:07	14 ≈32 02 14°≈27'41	0°51'45	iiiii. Eartii tiist.	10301 Jan 10 13:40	0 ≈4300 30°Rる	0.03004 AC
asc. node	10300 Feb 01 19:08	11°≈46'27	0 31 13	inferior conj	10301 Jan 13 10:10	28°る01'48	-2°03'29
morning rise	10300 Feb 05 13:23	9° ≈ 03'14		minimum elong	10301 Jan 13 14:12	27° る 51'52	
direct	10300 Feb 08 03:55	8° ≈ 27'39		asc. node	10301 Jan 19 16:16	23° る 05'44	
morning max el	10300 Feb 14 13:33	11° ≈ 48'50	17°56'34	morning rise	10301 Jan 20 08:40	22° る 48'52	
	10300 Feb 27 06:56	0°)		direct	10301 Jan 22 16:32	22° る 23'16	
morning set	10300 Mar 04 03:14	8°) €01'34		morning max el	10301 Jan 29 07:05	25° る 46'48	17°47'00
desc. node	10300 Mar 07 15:37	13° ¥ 50'43			10301 Feb 01 20:55	0° ≈	
	10300 Mar 17 14:40	0° Y		morning set	10301 Feb 14 10:58	20° ≈ 33'43	
					10301 Feb 19 21:48	0°) {	
superior conj	10300 Mar 18 03:24	0° Y 50'46		desc. node	10301 Feb 22 12:24	4°) €26'37	
minimum elong	10300 Mar 17 19:29	0° Y 19'14 7° Y 10'23			10301 Feb 26 12:46	1101/00/52	0920146
max. Earth dist.	10300 Mar 22 03:24 10300 Apr 03 04:47	7° γ 10·23 25° Υ 53'46	1.45317 AU	superior conj minimum elong	10301 Feb 26 12:46 10301 Feb 26 09:42	11°) (09'53)	
evening rise	10300 Apr 05 04.47	0° 8		max. Earth dist.	10301 Peb 20 09:42 10301 Mar 04 21:25	21°\(\frac{1}{3}\)710	1.44291 AU
greatest brilliancy	10300 Apr 17 15:09	17° 8 43'45	-0.6m	max. Bartii dist.	10301 Mar 10 06:20	0°Υ	1.11291710
greatest stimule)	10300 Apr 26 15:25	0°II	0.0111	evening rise	10301 Mar 13 16:21	5° Υ 17'50	
evening max el	10300 Apr 29 07:09	2° Ⅱ 56'42	19°50'47	S	10301 Mar 30 06:22	0°8	
asc. node	10300 Apr 30 17:12	4° Ⅱ 17'23		evening max el	10301 Apr 12 07:05	16° 8 39'10	20°56'05
retrograde	10300 May 06 18:51	7° Ⅱ 13'53		asc. node	10301 Apr 17 14:23	20° 8 47'09	
evening set	10300 May 10 13:33	5° Ⅱ 50'48		retrograde	10301 Apr 20 17:27	21° 8 35'09	
inferior conj	10300 May 15 21:48	29° 8 52'12		evening set	10301 Apr 24 21:54	19° 8 56'18	
minimum elong	10300 May 15 21:18	29° 8 53'54	3°16'46	inferior conj	10301 Apr 30 04:41	13° 8 45'22	3°05'51
	10300 May 15 19:28	30° ₹ 8		minimum elong	10301 Apr 30 03:16	13° 8 50'16	3°05'22
min. Earth dist.	10300 May 16 22:40	28° 8 28'45	0.67470 AU	min. Earth dist.	10301 Apr 30 15:46	13° 8 07'01	0.68268 AU
morning rise	10300 May 21 04:42	23° 8 32'43		morning rise	10301 May 05 08:25	7° 8 29'26	
direct desc. node	10300 May 27 01:47 10300 Jun 03 16:06	20° 8 55'54 24° 8 11'19		direct morning max el	10301 May 10 16:40 10301 May 21 09:27	5° 8 07'56	23°38'48
morning max el	10300 Jun 03 16:06 10300 Jun 07 24:00	28° 8 05'15	25°07'25	desc. node	10301 May 21 09.27 10301 May 21 13:02	11° 8 39'54	43 JO 70
morning max ci	10300 Jun 07 24:00 10300 Jun 09 19:32	0° Ⅱ	25 0125	desc. Hode	10301 Jun 05 03:24	0°Ⅱ	
	10300 Jul 01 17:29	0°©			10301 Jun 24 12:30	0°©	
morning set	10300 Jul 13 23:58	20°535'13		morning set	10301 Jun 25 13:37	1°5946'00	
max. Earth dist.	10300 Jul 17 14:25	27°508'48	1.36651 AU	max. Earth dist.	10301 Jun 29 11:18	8°930'21	1.38896 AU
	10300 Jul 19 03:02	$0^{\circ}\Omega$					
				superior conj	10301 Jul 06 23:29	22° © 08'44	-1°08'12
superior conj	10300 Jul 24 00:33	9° Ω 27'02		minimum elong	10301 Jul 07 04:02	22° © 30'04	1°07'56
minimum elong	10300 Jul 24 02:46	9° Ω 37'59	0°35'02		10301 Jul 11 02:30	0 $^{\circ}$ Ω	

•	·		C	, ,,			
asc. node	10301 Jul 14 13:17	6°Ω41'57		superior conj	10302 Jun 19 04:44	4°900'24	-1°39'09
evening rise	10301 Jul 16 04:19	9° Ω 52'09		minimum elong	10302 Jun 19 10:58	4°928'09	
evening rise	10301 Jul 27 10:25	0° m)		U	10302 Jun 29 15:27	23° © 08'22	1 30 34
. ,			10047142	evening rise			
evening max el	10301 Aug 01 09:39	6° TD 11'52	18°47'43	asc. node	10302 Jul 01 10:15	26°527'20	
retrograde	10301 Aug 09 18:10	10° m 21'57			10302 Jul 03 08:25	0 $^{\circ}$ Ω	
evening set	10301 Aug 11 16:57	10° Mp 09'10		evening max el	10302 Jul 15 16:50	18° Ω 45'36	18°16'15
desc. node	10301 Aug 17 11:51	7° ™ 26′10		retrograde	10302 Jul 22 22:29	22° Ω 24'39	
inferior conj	10301 Aug 19 19:39	5° m 48'13	-0°43'11	evening set	10302 Jul 25 04:06	22° Ω 04'29	
minimum elong	10301 Aug 19 17:52	5° m 51'29	0°42'43	inferior conj	10302 Aug 01 11:25	17° Ω 23'05	0°51'43
min. Earth dist.	10301 Aug 22 22:19	3° m/33'25	0.56882 AU	minimum elong	10302 Aug 01 13:06	17° Ω 19'30	0°50'46
morning rise	10301 Aug 27 15:27	0° mp 47'39		desc. node	10302 Aug 04 09:04	14°Ω55'06	
morning rise	10301 Aug 27 19:27 10301 Aug 29 19:47	30°RΩ		min. Earth dist.	10302 Aug 04 09:04 10302 Aug 04 20:04	• • • • • •	0.58940 AU
direct	_	29° Ω 30'46			-	$11^{\circ} \Omega 47'57$	0.38940 AU
direct	10301 Sep 02 06:46			morning rise	10302 Aug 08 18:44		
	10301 Sep 05 18:28	0° m		direct	10302 Aug 15 01:11	10° Ω 01'23	
morning max el	10301 Sep 16 13:24	6° Mp 55′31	26°22'09	morning max el	10302 Aug 29 10:16	17° Ω 48'15	27°27'41
	10301 Oct 03 15:35	0∘ ⊽			10302 Sep 08 14:26	0° m)	
asc. node	10301 Oct 10 13:40	12° ≏ 45'27			10302 Sep 26 05:26	0∘ 亚	
morning set	10301 Oct 15 07:10	22° ≏ 29'48		asc. node	10302 Sep 27 10:31	2° ≏ 27'11	
	10301 Oct 18 18:04	0° M ₊		morning set	10302 Sep 29 14:56	6° ≙ 59'15	
				max. Earth dist.	10302 Oct 06 05:06	21° ≏ 20'52	1.31469 AU
superior conj	10301 Oct 22 03:50	7°M33'09	1°32'28				
minimum elong	10301 Oct 22 02:15	7° M 24'24	1°32'35	superior conj	10302 Oct 06 15:36	22° ≏ 19'16	1°20'27
max. Earth dist.	10301 Oct 22 02:13	9°M00'09	1.31704 AU	minimum elong	10302 Oct 06 13:38	22° ⊆ 1910 22° ⊆ 07'28	1°20'19
			1.51/04 AU	minimum elong			1 20 19
evening rise	10301 Oct 29 01:51	22°M36'41			10302 Oct 10 02:36	0°M	
	10301 Nov 01 16:23	0° ∡		evening rise	10302 Oct 13 09:28	7° M 08′52	
desc. node	10301 Nov 13 09:44	20° ∡ 56′55			10302 Oct 25 04:55	0° ∡ ⊓	
	10301 Nov 19 13:24	0°₹		desc. node	10302 Oct 31 06:54	9° ∡ ³37'29	
evening max el	10301 Nov 29 10:27	11° る 28'47	27°13'28	evening max el	10302 Nov 11 10:24	23° х 07′42	26°22'02
retrograde	10301 Dec 13 07:39	18° පි 41'06			10302 Nov 23 00:33	0° ප	
evening set	10301 Dec 20 07:12	16° る 30'32		retrograde	10302 Nov 25 08:33	0° ප 13'16	
min. Earth dist.	10301 Dec 24 01:00	13° る 45'29	0.61026 AU	Z .	10302 Nov 27 16:06	30°R. ✓	
inferior conj	10301 Dec 27 03:24	11° る 04'31		evening set	10302 Dec 01 22:07	28° ∡ 28'19	
minimum elong	10301 Dec 27 09:58	10°る50'15		min. Earth dist.	10302 Dec 05 23:43	25° × 753'24	0.58910 AU
•		6°る10'58	3 13 27				
morning rise	10302 Jan 03 15:17			inferior conj	10302 Dec 09 03:41	23° 🗷 30'20	
direct	10302 Jan 05 19:15	5° ろ 51'45		minimum elong	10302 Dec 09 11:36	23° ⋌ 15'21	4°2′/′26
asc. node	10302 Jan 06 13:23	5° る 54'10		morning rise	10302 Dec 17 03:42	18° ∡ 58'56	
morning max el	10302 Jan 12 22:35	9° පි 26'51	17°55'50	direct	10302 Dec 19 07:40	18° ∡ ′42'48	
	10302 Jan 26 09:10	0° ≈		asc. node	10302 Dec 24 10:28	20° ∡ 18'37	
morning set	10302 Jan 28 13:38	3° ≈ 59'18		morning max el	10302 Dec 27 08:26	22° ∡ ³38'57	18°24'24
					10303 Jan 02 03:19	0°ರ	
superior conj	10302 Feb 07 23:24	22° ≈ 41'19	0°10'43	morning set	10303 Jan 12 05:31	18° පි 00'40	
minimum elong	10302 Feb 08 00:21	22° ≈ 45'24	0°10'53	•	10303 Jan 18 12:31	0° ≈ ≈	
behind sun begin	10302 Feb 07 18:18	22° ≈ 19'01					
behind sun end	10302 Feb 08 06:24	23°≈11'43		superior conj	10303 Jan 21 08:21	5°≈15'22	0°44'23
desc. node	10302 Feb 09 09:14	25°≈07'51		minimum elong	10303 Jan 21 11:12	5°≈28'26	0°44'22
desc. Hode				_			0 44 22
P. J. P.	10302 Feb 12 05:46	0°) {	1 10 6 6 7 1 7 7	desc. node	10303 Jan 27 06:05	15°≈50'13	1 10621 177
max. Earth dist.	10302 Feb 15 11:39	5°) €24'37	1.42667 AU	max. Earth dist.	10303 Jan 28 20:46	18° ≈ 37'34	1.40634 AU
evening rise	10302 Feb 21 13:54	15°) 14′21		evening rise	10303 Feb 02 06:39	26°≈03′13	
	10302 Mar 03 04:47	0° Y			10303 Feb 04 16:40	0° ∀	
	10302 Mar 25 16:45	9° 8			10303 Feb 24 22:05	0° Y	
evening max el	10302 Mar 26 01:50	0° 8 23'08	22°11'19	evening max el	10303 Mar 08 16:53	14° Ƴ 09'16	23°31'29
asc. node	10302 Apr 04 11:35	6° 8 01'44		retrograde	10303 Mar 19 09:43	20° Ƴ 28'22	
retrograde	10302 Apr 04 14:52	6° ႘ 01'49		asc. node	10303 Mar 22 08:49	19° Ƴ 46'25	
evening set	10302 Apr 09 06:02	4° 8 07'38		evening set	10303 Mar 24 12:25	18° Y ′20′04	
ovening sec	10302 Apr 12 22:45	30°RY		inferior conj	10303 Mar 29 22:23	11° Y 52'35	2°13'00
inferior conj	10302 Apr 12 22:43	27° Υ '46'48	2°44'12	minimum elong	10303 Mar 29 20:12	12°Υ00'08	2°12'18
•	-			•			
minimum elong	10302 Apr 14 11:31	27° Y 53'47	2°43'34	min. Earth dist.	10303 Mar 29 08:32	12° Υ 40'11	0.68511 AU
min. Earth dist.	10302 Apr 14 11:47	27° Y 52'52	0.68610 AU	morning rise	10303 Apr 04 03:57	5° ℃ 47'36	
morning rise	10302 Apr 19 16:51	21° Y '35'44		direct	10303 Apr 08 09:10	4° Υ 07'58	
direct	10302 Apr 24 11:28	19° Ƴ 34'17		morning max el	10303 Apr 16 14:49	8° Y 50'32	20°48'30
morning max el	10302 May 03 21:20	25° Y ′05′17	22°09'55	desc. node	10303 Apr 25 06:47	19° Y 18′05	
desc. node	10302 May 08 09:55	0° 8 07'41			10303 May 02 20:24	$0^{\circ}B$	
	10302 May 08 07:22	0°8		morning set	10303 May 16 12:11	20° 8 39'06	
	10302 May 29 14:20	0°II		-	10303 May 22 10:16	0°II	
morning set	10302 Jun 06 01:32	11° Ⅱ 46'07		max. Earth dist.	10303 May 24 15:44		1.43155 AU
max. Earth dist.	10302 Jun 10 01:32	20° Ⅲ 36'44	1.41157 AU				22.22.210
max. Lattii dist.	10302 Jun 16 22:09	0°95	1.7113/740	superior conj	10303 May 31 11:47	14° ∏ 52'20	2002154
	10302 Juli 10 22.09	υ -)		superior conj	10303 Way 31 11.4/	17 1134 40	2 U2 J4

minimum elong	10303 May 31 17:16	15° Ⅱ 15'24	2°03'00	superior conj	10304 May 10 18:34	24° 8 42'27	-2°12'57
	10303 Jun 09 06:20	0°ತಾ		minimum elong	10304 May 10 18:56	24° 8 43'59	
evening rise	10303 Jun 12 11:36	5° 5 41'45			10304 May 14 01:02	Π°	
asc. node	10303 Jun 18 07:15	15° © 56'36		evening rise	10304 May 24 11:55	17° Ⅲ 21'40	
	10303 Jun 27 13:14	$0^{\circ}\Omega$			10304 Jun 01 00:40	0ಂತಾ	
evening max el	10303 Jun 29 05:05	1° Ω 48′04	18°04'34	asc. node	10304 Jun 04 04:18	5° © 03'57	
retrograde	10303 Jul 05 19:05	5° Ω 11′00		evening max el	10304 Jun 11 18:51	15° © 10'23	18°11'43
evening set	10303 Jul 08 08:33	4° Ω 40′05		retrograde	10304 Jun 18 03:35	18° © 31'46	
inferior conj	10303 Jul 14 22:55	29° 5 39'04	2°00'50	evening set	10304 Jun 21 00:57	17° 5 47'36	
minimum elong	10303 Jul 15 01:43	29° © 32'10	1°59'35	inferior conj	10304 Jun 27 02:12	12° 5 28'24	2°45'32
	10303 Jul 14 14:22	30° ₹ 5		minimum elong	10304 Jun 27 04:36	12° © 21'45	2°44'34
min. Earth dist.	10303 Jul 18 02:06	26° © 35'39	0.61206 AU	min. Earth dist.	10304 Jun 29 17:14	9° 5 34'47	0.63398 AU
morning rise	10303 Jul 21 16:20	23° © 39'35		morning rise	10304 Jul 03 06:41	6° © 15'06	
desc. node	10303 Jul 22 06:15	23° © 17'10		desc. node	10304 Jul 08 03:24	3° 9 51'36	
direct	10303 Jul 28 07:45	21° © 24'50		direct	10304 Jul 09 23:52	3° © 40'14	
morning max el	10303 Aug 11 13:52		27°56'04	morning max el	10304 Jul 23 22:06	11° 9 542'58	27°46'14
	10303 Aug 12 03:46	0 $^{\circ}$ Ω			10304 Aug 07 09:43	0 ° Ω	
	10303 Sep 02 13:58	0° ™			10304 Aug 25 00:34	0° m)	
morning set	10303 Sep 13 17:58	21°Mp 12'16		morning set	10304 Aug 27 13:54	5°Mp01'52	
asc. node	10303 Sep 14 07:22	22° Tp 21'45		asc. node	10304 Aug 31 04:11	12° m 23'41	
	10303 Sep 17 21:41	0∘ ⊽		max. Earth dist.	10304 Sep 01 15:06	15° m 27'39	1.32474 AU
max. Earth dist.	10303 Sep 19 12:55	3° ॒ 33'39	1.31718 AU				
				superior conj	10304 Sep 04 09:30	21° m) 23'46	0°40'58
superior conj	10303 Sep 21 02:08	6° Ω 58'17	1°03'12	minimum elong	10304 Sep 04 07:43	21° m 14'08	0°40'31
minimum elong	10303 Sep 20 23:55	6° Ω 46'03	1°02'51		10304 Sep 08 08:20	0° ⊽	
evening rise	10303 Sep 27 19:58	21° Ω 46'50		evening rise	10304 Sep 11 07:26	6° 2 24′24	
	10303 Oct 01 18:12	0°M			10304 Sep 23 15:34	0°M	
desc. node	10303 Oct 18 04:06	27°M19'57		desc. node	10304 Oct 04 01:20	13°M41'03	22022146
	10303 Oct 20 08:46	0° 🗷	25001104	evening max el	10304 Oct 04 13:11	14°M10'11	23°22'46
evening max el	10303 Oct 24 02:17	3° ∡ 756'41	25°01'04	retrograde	10304 Oct 17 23:40	20°M52'11	
retrograde	10303 Nov 06 22:39	10° 🗷 54'18		evening set	10304 Oct 22 05:57	20°M12'42	0.55424.411
evening set min. Earth dist.	10303 Nov 12 14:04	9° ₹ 42'26 6° ₹ 59'52	0.56945 AU	min. Earth dist.	10304 Oct 28 23:00	17°M04'12 16°M03'09	0.55434 AU
inferior conj	10303 Nov 17 14:03 10303 Nov 20 08:12	5° x 11'19		inferior conj minimum elong	10304 Oct 30 16:40 10304 Oct 30 15:39	16°M04'39	5°44'03
minimum elong	10303 Nov 20 08.12 10303 Nov 20 14:03		-5 25 25 5°24'09	morning rise	10304 Oct 30 13.39 10304 Nov 08 03:11	10 116.04.39 12°ML11'10	3 44 03
morning rise	10303 Nov 20 14:03	1°×702'04	3 24 09	direct	10304 Nov 11 01:03	11°M50'38	
direct	10303 Nov 28 10:18 10303 Dec 01 01:50	0°×7'45'40		morning max el	10304 Nov 21 20:11	16°M56'45	20°27'21
morning max el	10303 Dec 01 01:30	5°×12'35	19°14'28	asc. node	10304 Nov 27 04:31	23°M11'04	20 27 21
asc. node	10303 Dec 10 00:40	6°×709'49	17 1420	ase. Houe	10304 Nov 27 04:31 10304 Dec 01 14:34	0° √	
use. Houe	10303 Dec 26 00:58	0°る		morning set	10304 Dec 10 13:08	17° ∡ 05'23	
morning set	10303 Dec 27 06:24	。 2° る 25'57		morning sec	10304 Dec 16 19:14	0°궁	
						• •	
superior conj	10304 Jan 04 10:44	18° る 38'19	1°09'50	superior conj	10304 Dec 18 01:54	2° ප 36'16	1°27'10
minimum elong	10304 Jan 04 13:48	18° る 53'09	1°09'55	minimum elong	10304 Dec 18 04:13	2°る48'02	1°27'26
C	10304 Jan 10 11:37	0° ≈		max. Earth dist.	10304 Dec 23 10:10	13° る 10'31	1.36318 AU
max. Earth dist.	10304 Jan 11 02:40	1° ≈ 08'23	1.38439 AU	evening rise	10304 Dec 27 06:47	20° ට 25'11	
desc. node	10304 Jan 14 02:58	6° ≈ 30'26		desc. node	10304 Dec 30 23:54	27° る 04'02	
evening rise	10304 Jan 14 21:02	7° ≈ 49'14			10305 Jan 01 16:34	0° ≈	
	10304 Jan 28 14:26	0°) €			10305 Jan 21 14:17	0°)	
evening max el	10304 Feb 19 06:24	27°) € 58′26	24°50'12	evening max el	10305 Jan 31 19:53	11°){ 47'47	26°00'22
	10304 Feb 21 10:29	0° Y		retrograde	10305 Feb 13 10:39	18° ¥ 59'11	
retrograde	10304 Mar 02 00:38	4° Y 49'30		evening set	10305 Feb 19 13:30	16°) 29'42	
evening set	10304 Mar 07 15:27	2° Y 29'05		asc. node	10305 Feb 23 03:16	12°) 48′07	
asc. node	10304 Mar 08 06:03	1° Y 56'27		min. Earth dist.	10305 Feb 23 19:17	11° ¥ 59′27	0.67077 AU
	10304 Mar 10 02:02	30° ₹ ₩		inferior conj	10305 Feb 25 08:40	10° 米 02'51	0°43'08
min. Earth dist.	10304 Mar 12 03:48	27°) €24'03	0.67994 AU	minimum elong	10305 Feb 25 07:36	10° 米 06′12	0°42'54
inferior conj	10304 Mar 13 05:26	25° ¥ 59'18	1°32'37	morning rise	10305 Mar 03 02:19	4°) 14'40	
minimum elong	10304 Mar 13 03:31	26° 米 05'39	1°32'01	direct	10305 Mar 06 07:39	3° ¥ 15′27	
morning rise	10304 Mar 18 15:47	20°) €01'45		morning max el	10305 Mar 13 00:26	6°) 53′10	18°46'36
direct	10304 Mar 22 08:25	18°) (43′25		desc. node	10305 Mar 29 00:22	29°) €03'38	
morning max el	10304 Mar 29 15:52	22°) (47'20	19°39'48	_	10305 Mar 29 14:54	0° Υ	
	10304 Apr 04 18:12	0°Υ •••••••••		morning set	10305 Apr 03 21:07	8° Y 11'48	
desc. node	10304 Apr 11 03:36	8°Υ59'33	0.6		10305 Apr 17 20:06	0°8	1 45 400 : **
greatest brilliancy	10304 Apr 11 09:27	9° Υ 20'59	-0.6m	max. Earth dist.	10305 Apr 18 21:18	1° 8 38'39	1.45498 AU
morning set	10304 Apr 24 10:50	29° Y 04'54		·	10205 4 20 05 50	200 42100	2002142
max. Earth dist.	10304 Apr 25 01:08 10304 May 06 03:45	0°8	1.44658 AU	superior conj minimum elong	10305 Apr 20 05:50 10305 Apr 19 22:56	3° 8 46'09 3° 8 19'06	
		1./~~://112	1 /1/165X A I I	mınımım elong	10305 Apr 19 22:56	3° C 19'06	7"U3'35

evening rise	10305 May 05 12:42	28° 8 02'26		morning max el	10306 Feb 24 14:43	21° ≈ 02′19	18°09'59
	10305 May 06 17:55	Π $^{\circ}0$			10306 Mar 03 15:27	0° ∀	
greatest brilliancy	10305 May 11 23:22	8° Ⅲ 24'31	-0.9m	morning set	10306 Mar 15 10:39	18°) 41′32	
asc. node	10305 May 22 01:23	23° Ⅱ 41'57		desc. node	10306 Mar 15 21:08	19°) 23′54	
evening max el	10305 May 26 07:11	28° Ⅱ 44'56	18°36'55		10306 Mar 22 11:20	0 ° Υ	
	10305 May 27 15:47	0 \circ \mathfrak{s}					
retrograde	10305 Jun 01 19:59	2° © 18'31		superior conj	10306 Mar 30 12:24	12° Ƴ 44'05	-1°35'08
evening set	10305 Jun 05 01:16	1° © 19'40		minimum elong	10306 Mar 30 02:56	12° Y 06′55	
	10305 Jun 06 19:42	30°Ŗ Ⅱ		max. Earth dist.	10306 Apr 01 17:20		1.45599 AU
inferior conj	10305 Jun 10 17:17	25° Ⅱ 43'47	3°10'02		10306 Apr 10 13:51	9° 8	
minimum elong	10305 Jun 10 18:37	25° Ⅱ 39'43	3°09'25	evening rise	10306 Apr 15 14:55	7° 8 50'30	
min. Earth dist.	10305 Jun 12 17:27	23° Ⅱ 17'32	0.65303 AU	greatest brilliancy	10306 Apr 27 16:10	26° 8 24'38	-0.7m
morning rise	10305 Jun 16 11:08	19° Ⅲ 24′23			10306 Apr 30 02:00	Π °0	
direct	10305 Jun 22 23:46	16° Ⅱ 40'35		asc. node	10306 May 08 22:31	11° Ⅱ 40′10	
desc. node	10305 Jun 25 00:28	16° Ⅲ 54'35		evening max el	10306 May 09 15:36	12° Ⅲ 24'35	19°19'15
morning max el	10305 Jul 06 08:34	24° Ⅲ 33'50	27°03'04	retrograde	10306 May 16 16:51	16° Ⅱ 22'56	
	10305 Jul 11 06:17	0 \circ \odot		evening set	10306 May 20 06:27	15° Ⅱ 08'42	
	10305 Jul 31 20:06	0 $^{\circ}\Omega$		inferior conj	10306 May 25 16:39	9° Ⅱ 17'41	3°18'26
morning set	10305 Aug 11 00:00	18° Ω 21′23		minimum elong	10306 May 25 16:47	9° Ⅱ 17'15	3°18'00
max. Earth dist.	10305 Aug 15 08:32	26° Ω 58'11	1.33741 AU	min. Earth dist.	10306 May 27 01:44	7° Ⅱ 29'49	0.66808 AU
	10305 Aug 16 20:08	O° m y		morning rise	10306 May 31 02:42	2° Ⅲ 57'13	
asc. node	10305 Aug 18 01:00	2° m 29'19		direct	10306 Jun 06 06:12	0° Ⅱ 15′23	
				desc. node	10306 Jun 11 21:29	2° Ⅲ 03'30	
superior conj	10305 Aug 19 11:35	5° m 30'15	0°14'13	morning max el	10306 Jun 18 19:08	7° Ⅱ 45'14	25°54'32
minimum elong	10305 Aug 19 10:52	5° Mp 26′27	0°13'50		10306 Jul 06 03:14	0 \circ \odot	
behind sun begin	10305 Aug 19 07:59	5° m 11'18			10306 Jul 24 07:21	$0^{\circ}\Omega$	
behind sun end	10305 Aug 19 13:45	5° m 41'37		morning set	10306 Jul 24 20:37	1° Ω 00'45	
evening rise	10305 Aug 26 18:02	20° m 56'45		max. Earth dist.	10306 Jul 28 15:31	8° Ω 07'47	1.35479 AU
	10305 Aug 31 03:53	0∘ ⊽					
evening max el	10305 Sep 16 03:19	24° ₽ 21'45	21°44'14	superior conj	10306 Aug 03 05:46	19° Ω 10'14	-0°16'19
desc. node	10305 Sep 20 22:34	28° ₽ 12'30		minimum elong	10306 Aug 03 06:45	19° Ω 15'13	0°16'28
	10305 Sep 24 20:58	0° M .		asc. node	10306 Aug 04 21:51	22° Ω 34'19	
retrograde	10305 Sep 28 13:43	0°M32'36			10306 Aug 08 12:14	0° m y	
evening set	10305 Oct 01 10:06	0° ጤ 14'16		evening rise	10306 Aug 11 01:38	5° Mp 17'19	
-	10305 Oct 02 09:35	30° Ŗ Ω			10306 Aug 24 21:18	0∘ ⊽	
inferior conj	10305 Oct 10 11:05	26° ₽ 16'53	-5°08'46	evening max el	10306 Aug 29 04:48	5° ₽ 04'50	20°19'34
minimum elong	10305 Oct 10 02:41	26° ₽ 28'37	5°07'00	desc. node	10306 Sep 07 19:49	10° ≏ 25′01	
min. Earth dist.	10305 Oct 10 06:08	26° ₽ 23'47	0.54671 AU	retrograde	10306 Sep 09 02:17	10° ≏ 29'16	
morning rise	10305 Oct 18 20:27	22° ₽ 28'50		evening set	10306 Sep 11 02:20	10° ≏ 19'06	
direct	10305 Oct 22 11:05	22° ჲ 00'25		inferior conj	10306 Sep 20 04:29	6° £ 21′24	-3°40'30
morning max el	10305 Nov 03 18:11	27° ♀ 50'11	22°01'10	minimum elong	10306 Sep 19 19:11	6° ≏ 35'04	3°37'29
	10305 Nov 05 21:29	0° M .		min. Earth dist.	10306 Sep 21 14:54	5° ≏ 30'55	0.54832 AU
asc. node	10305 Nov 14 01:26	11° M .07'06		morning rise	10306 Sep 28 11:19	2° ₽ 16'02	
	10305 Nov 24 01:54	0° ∡ 7		direct	10306 Oct 02 20:13	1° ≏ 34'54	
morning set	10305 Nov 24 23:19	1° ∡ 52′02		morning max el	10306 Oct 16 07:22	8° ഫ 07'50	23°47'29
-				asc. node	10306 Oct 31 22:19	29° ≏ 45'00	
superior conj	10305 Dec 02 02:06	16° ∡ 58'37	1°37'00		10306 Nov 01 01:38	0° M .	
minimum elong	10305 Dec 02 03:16	17° ∡ °04'46	1°37'24	morning set	10306 Nov 09 11:01	16°M40'30	
max. Earth dist.	10305 Dec 05 23:46	25° ∡ ¹03'55	1.34470 AU		10306 Nov 15 14:34	0° ∡ 7	
	10305 Dec 08 10:52	0°ರ					
evening rise	10305 Dec 10 08:19	3° る 41'34		superior conj	10306 Nov 16 08:24	1° ∡ ³36'52	1°40'02
desc. node	10305 Dec 17 20:52	17° る 26'27		minimum elong	10306 Nov 16 08:22	1° ∡ ³36'38	1°40'26
	10305 Dec 25 13:04	0° ≈		max. Earth dist.	10306 Nov 18 21:13	7° ∡ 03'48	1.33022 AU
evening max el	10306 Jan 14 09:24	25° ≈ 29'17	26°54'37	evening rise	10306 Nov 23 22:01	17° ∡ ¹29'31	
•	10306 Jan 19 20:29	0° ₩		•	10306 Nov 30 10:54	0°రె	
retrograde	10306 Jan 27 14:54	2° ¥ 50′19		desc. node	10306 Dec 04 17:54	7° る 32'05	
evening set	10306 Feb 03 04:40	0° ₩ 16'15			10306 Dec 19 22:33	0° ≈	
	10306 Feb 03 12:42	30° R ≈		evening max el	10306 Dec 27 21:56	8° ≈ 52'22	27°25'50
min. Earth dist.	10306 Feb 07 04:42	26° ≈ 20'15	0.65780 AU	retrograde	10307 Jan 10 12:58	16° ≈ 14'42	
inferior conj	10306 Feb 09 05:56	23° ≈ 58'16		evening set	10307 Jan 17 10:42	13° ≈ 42'41	
minimum elong	10306 Feb 09 06:22	23° ≈ 57'03	0°14'49	min. Earth dist.	10307 Jan 21 06:02	10° ≈ 18'47	0.64134 AU
transit middle	10306 Feb 09 06:22	23° ≈ 57'03		inferior conj	10307 Jan 23 18:46	7° ≈ 39'51	
transit begin	10306 Feb 09 05:14	24° ≈ 00′20		minimum elong	10307 Jan 23 21:20	7° ≈ 33'06	
transit end	10306 Feb 09 07:30	23° ≈ 53'46		asc. node	10307 Jan 27 21:38	3° ≈ 47'11	
asc. node	10306 Feb 10 00:28	23° ≈ 05'08		morning rise	10307 Jan 30 09:51	2° ≈ 17'45	
morning rise	10306 Feb 15 09:16	18° ≈ 21'45		direct	10307 Feb 01 21:17	1°≈46'52	
direct	10306 Feb 18 04:46	17° ≈ 38'33		morning max el	10307 Feb 08 08:03		17°50'26
				-			

	10207 F 1 24 20 26	001/			10200 F 1 07 21 10	12021150	
	10307 Feb 24 20:26	0° ∀		morning set	10308 Feb 07 21:10	13° ≈ 31'52	
morning set	10307 Feb 25 04:37	0°) 34'41			10308 Feb 17 06:38	0°) {	
desc. node	10307 Mar 02 17:54	9° ¥ 55'46		desc. node	10308 Feb 17 14:42	0°) 34′26	
	1020734 10 00 47	2201/26/22	0054127		10200 F 1 10 04 50	201/16/57	0012101
superior conj	10307 Mar 10 08:47	22°\(\frac{1}{2}26'23		superior conj	10308 Feb 19 04:58	3° ¥ 16'57	
minimum elong	10307 Mar 10 02:49	22° ₩ 02'16	0°53'42	minimum elong	10308 Feb 19 03:50	3° ¥ 12′08	0°11'35
	10307 Mar 15 02:16	0° Υ		behind sun begin	10308 Feb 18 21:40	2°) 46′05	
max. Earth dist.	10307 Mar 15 12:37	0° Υ 41'00	1.44961 AU	behind sun end	10308 Feb 19 09:59	3° ¥ 38′09	
evening rise	10307 Mar 26 03:38	17° Ƴ 12'51		max. Earth dist.	10308 Feb 26 04:43	14° ¥ 50′08	1.43659 AU
	10307 Apr 03 13:48	$_{0\circ}$ 8		evening rise	10308 Mar 04 17:46	26°) 46′57	
evening max el	10307 Apr 22 18:43	26° 8 06'39	20°16'56		10308 Mar 06 19:46	0° Y	
asc. node	10307 Apr 25 19:42	28° 8 46'53			10308 Mar 27 11:12	9° 8	
	10307 Apr 27 20:39	Π $\circ 0$		evening max el	10308 Apr 04 16:19	9° 8 49'58	21°27'06
retrograde	10307 Apr 30 15:33	0° Ⅱ 39'59		asc. node	10308 Apr 11 16:55	14° 8 47'02	
	10307 May 03 06:57	30° ₹ ႘		retrograde	10308 Apr 13 13:56	15° 8 04'21	
evening set	10307 May 04 14:13	29° 8 10'10		evening set	10308 Apr 17 22:42	13° 8 19'07	
inferior conj	10307 May 09 21:32	23° 8 05'48	3°13'43	inferior conj	10308 Apr 23 05:33	7° と 03'37	2°57'54
minimum elong	10307 May 09 20:36	23° 8 08'58	3°13'17	minimum elong	10308 Apr 23 03:50	7° 8 09'34	2°57'20
min. Earth dist.	10307 May 10 16:23	22° 8 01'30	0.67868 AU	min. Earth dist.	10308 Apr 23 11:08	6° 8 44'08	0.68469 AU
morning rise	10307 May 15 02:44	16° 8 47'24		morning rise	10308 Apr 28 08:45	0° 8 49'19	
direct	10307 May 20 18:24	14° 8 16'29		Č	10308 Apr 29 09:32	30° ₹Ƴ	
desc. node	10307 May 29 18:29	18° 8 49'12		direct	10308 May 03 11:14	28° Ƴ 35'47	
morning max el	10307 Jun 01 04:50	21° 8 07'53	24°30'15		10308 May 07 23:16	0°8	
morning man vi	10307 Jun 08 20:36	0°II	2.3015	morning max el	10308 May 13 14:54	4° 8 37'18	23°00'23
	10307 Jun 29 08:40	0°9		desc. node	10308 May 15 15:24	6° 8 45'34	25 00 25
morning set	10307 Jul 06 23:08	12°548'27		dese. Hode	10308 Jun 02 02:17	0°II	
max. Earth dist.	10307 Jul 10 14:10	19°915'32	1.37588 AU	morning set	10308 Jun 17 02:21	23° I [31'00	
max. Latur dist.	10307 Jul 16 14:10	0°Ω	1.57566 AU	morning set	10308 Jun 20 22:39	0°95	
	10307 301 10 00.33	0 86		max. Earth dist.	10308 Jun 20 22:39	0°952'07	1.39872 AU
gunariar aoni	10307 Jul 17 12:51	2° Ω 16'01	0°40'10	max. Earm dist.	10306 Juli 21 10.46	0 35207	1.39672 AU
superior conj		2°Ω31'32			10200 1 20 04.52	1.49@20120	1921152
minimum elong	10307 Jul 17 16:03	$12^{\circ}\Omega 35'05$	0 4901	superior conj	10308 Jun 29 04:53	14°938'28	
asc. node	10307 Jul 22 18:44			minimum elong	10308 Jun 29 10:19		1°21'34
evening rise	10307 Jul 26 03:50	19° Ω 19'38			10308 Jul 07 08:49	0°N	
	10307 Jul 31 15:50	0° m)	10015100	evening rise	10308 Jul 08 21:33	2° Q 55'44	
evening max el	10307 Aug 11 20:08	16° Mp 34'45	19°15'08	asc. node	10308 Jul 08 15:41	2° Ω 27'41	10021154
retrograde	10307 Aug 21 01:17	21° m 09'26		evening max el	10308 Jul 24 22:47	28° Ω 48'49	18°31'54
evening set	10307 Aug 22 21:33	20° m 59'12			10308 Jul 26 06:01	0° m)	
desc. node	10307 Aug 25 17:06	20° Mp 07'29		retrograde	10308 Aug 01 18:25	2° Mp 43'30	
inferior conj	10307 Aug 31 11:00	16° Mp 49'21		evening set	10308 Aug 03 19:53	2° My 28'03	
minimum elong	10307 Aug 31 06:16	16° m 57'14			10308 Aug 08 20:52	30°R Ω	
min. Earth dist.	10307 Sep 03 03:33	15° m 02'24	0.55914 AU	inferior conj	10308 Aug 11 14:16	27° Ω 58'54	0°00'03
morning rise	10307 Sep 08 12:07	12° Mp 10'06		minimum elong	10308 Aug 11 14:16	27° Ω 58'55	0°00'14
direct	10307 Sep 13 16:37	11° m)08'16		transit middle	10308 Aug 11 14:16	27° Ω 58'55	0°00'14
morning max el	10307 Sep 27 19:19	18° m) 17'45	25°30'52	transit begin	10308 Aug 11 10:40	28° Ω 05'53	
	10307 Oct 07 13:30	0∘ ऌ		transit end	10308 Aug 11 17:51	27° Ω 51'55	
asc. node	10307 Oct 18 19:11	18° ≙ 54'11		desc. node	10308 Aug 11 14:21	27° Ω 58'45	
	10307 Oct 24 06:27	0° M		min. Earth dist.	10308 Aug 14 21:25	25° Ω 26′12	0.57712 AU
morning set	10307 Oct 24 22:29	1°M25'18		morning rise	10308 Aug 19 05:07	22° Ω 42'44	
				direct	10308 Aug 25 03:46	21° Ω 13′06	
superior conj	10307 Oct 31 18:23	16°ML23'13	1°36'53	morning max el	10308 Sep 08 11:56	28° Ω 48'45	26°54'09
minimum elong	10307 Oct 31 17:18	16°ML17'10	1°37'09		10308 Sep 09 16:26	0° m)	
max. Earth dist.	10307 Nov 02 01:38	19° M .15'16	1.32040 AU		10308 Sep 30 07:11	0∘ 亚	
	10307 Nov 07 01:27	0° ∡ ¹		asc. node	10308 Oct 04 16:02	8° ≏ 26'16	
evening rise	10307 Nov 07 20:42	1° ∡ °40′25		morning set	10308 Oct 08 08:06	16° ≏ 02'00	
desc. node	10307 Nov 21 15:00	27° ҂ 13'06		Č	10308 Oct 14 17:12	0° M .	
	10307 Nov 23 08:37	0°ರ					
evening max el	10307 Dec 10 07:41	21° ප් 44'15	27°27'40	superior conj	10308 Oct 15 06:03	1°ML11'32	1°28'01
retrograde	10307 Dec 24 03:55	29° ට 01'43		minimum elong	10308 Oct 15 04:12	1°ML01'12	
evening set	10307 Dec 31 04:38	26° ප් 40'34		max. Earth dist.	10308 Oct 15 10:21	1°M35'22	1.31542 AU
min. Earth dist.	10308 Jan 03 21:38	23°る43'39	0.62208 AU	evening rise	10308 Oct 22 01:46	16°ML07'16	
inferior conj	10308 Jan 06 20:07	23° る 59'14		5 (5 min 5 1 1 5 C	10308 Oct 22 01:40 10308 Oct 28 23:26	0° ∡ ⊓	
minimum elong	10308 Jan 07 01:16	20°る3914 20°る47'11		desc. node	10308 Oct 28 23:20 10308 Nov 07 12:10	16° ∡ ¹19'39	
morning rise	10308 Jan 07 01:10	20 84711 15° 8 54'24		dese. Houc	10308 Nov 17 18:00	0°る	
asc. node	10308 Jan 14 10.20	15 3 34 24 15° る 41'47		evening max el	10308 Nov 17 18:00 10308 Nov 21 12:08	0 る 3° る 53'14	26°55'49
direct	10308 Jan 14 18:47 10308 Jan 16 06:00	15°る41'47		retrograde	10308 Nov 21 12:08 10308 Dec 05 10:19	11° る 02'41	4U 33 47
	10308 Jan 16 06:00 10308 Jan 23 01:13	13°る32'04 18°る59'40	17°48'31	evening set	10308 Dec 03 10:19 10308 Dec 12 06:41	9° る 02'13	
morning max el	10308 Jan 23 01:13 10308 Jan 31 02:17	18°€39'40 0°≈	1/4031	=	10308 Dec 12 06:41 10308 Dec 16 02:39	9° る 02'13 6° る 22'58	0.60120 411
	10300 Jan 31 U2.1/	0 ~~		min. Earth dist.	10300 DEC 10 02.39	0 02238	0.60120 AU

inferior conj	10308 Dec 19 06:34	3° ⋜ 47'43	-3°49'42	minimum elong	10309 Dec 01 06:17	15° ∡ ′41'43	4°54'29
minimum elong	10308 Dec 19 13:58	3°る32'32		morning rise	10309 Dec 09 02:44	11° × ⁷ 33'11	7 372)
g	10308 Dec 24 14:57	30°R. ₹	3 .001	direct	10309 Dec 11 08:27	11° х 17'14	
morning rise	10308 Dec 26 23:54	29° ₹ '03'04		asc. node	10309 Dec 18 12:55	14° ∡ 13'49	
direct	10308 Dec 29 03:11	28° ∡ ¹45'37		morning max el	10309 Dec 19 20:51	15° ∡ ¹25'16	18°42'57
asc. node	10308 Dec 31 15:53	29° ∡ 11'10		C	10309 Dec 30 00:47	ರ°0	
	10309 Jan 02 10:30	8°0		morning set	10310 Jan 05 02:11	11° ට 27'16	
morning max el	10309 Jan 05 14:43	2° る 28'56	18°05'25	C			
morning set	10309 Jan 21 06:02	27° る 14'20		superior conj	10310 Jan 13 18:27	28° ප 12'14	0°56'12
	10309 Jan 22 17:33	0°≈		minimum elong	10310 Jan 13 21:33	28° る 26'48	0°56'12
					10310 Jan 14 17:27	0° ≈	
superior conj	10309 Jan 31 01:32	15° ≈ 15'57	0°25'56	max. Earth dist.	10310 Jan 21 00:17	11° ≈ 22'51	1.39708 AU
minimum elong	10309 Jan 31 03:32	15° ≈ 24'51	0°26'00	desc. node	10310 Jan 21 08:22	11° ≈ 58′16	
desc. node	10309 Feb 03 11:31	21° ≈ 16′23		evening rise	10310 Jan 25 00:45	18° ≈ 17'44	
max. Earth dist.	10309 Feb 07 16:30	28° ≈ 26'34	1.41842 AU		10310 Feb 01 05:10	0° ∀	
	10309 Feb 08 14:54	0° ∀			10310 Feb 22 09:28	0° Y	
evening rise	10309 Feb 12 22:46	7° ∺ 04'22		evening max el	10310 Feb 28 23:40	7° Y 23′23	24°05'37
	10309 Feb 27 24:00	0° Υ		retrograde	10310 Mar 12 03:28	13° Y 56'40	
evening max el	10309 Mar 18 09:23	23° Y 35'14	22°45'15	asc. node	10310 Mar 16 11:22	12° Y ′29'15	
retrograde	10309 Mar 28 10:19	29° Y ′31′24		evening set	10310 Mar 17 11:24	11° Y ′42'51	
asc. node	10309 Mar 29 14:09	29° Y ′24'51		min. Earth dist.	10310 Mar 22 04:02	6° Y 18′02	0.68342 AU
evening set	10309 Apr 02 06:16	27° Y '31'14		inferior conj	10310 Mar 22 22:55	5°Υ14'04	1°57'00
inferior conj	10309 Apr 07 14:38	21° Υ 07'22	2°32'08	minimum elong	10310 Mar 22 20:47	5° Υ 21'19	1°56'19
minimum elong	10309 Apr 07 12:29	21° Υ 14'47	2°31'27		10310 Mar 27 07:37	30° ₹ ₩	
min. Earth dist.	10309 Apr 07 07:45	21° Y 31'14	0.68623 AU	morning rise	10310 Mar 28 06:13	29°) 12'16	
morning rise	10309 Apr 12 18:35	14° Y 58'40 13° Y 06'09		direct	10310 Apr 01 06:02	27°) 41'47 0° ℃	
direct	10309 Apr 17 07:32	13°° \ 06'09	2192256		10310 Apr 06 16:32	2° Υ 05'58	20017127
morning max el desc. node	10309 Apr 26 04:37 10309 May 02 12:16	25° Y 33'04	21°33'56	morning max el desc. node	10310 Apr 09 01:13 10310 Apr 19 09:04	14° Υ 57'59	20°17'37
desc. Hode	10309 May 02 12:10 10309 May 05 21:24	0° 8		desc. node	10310 Apr 19 09:04 10310 Apr 29 15:37	0° 8	
	10309 May 05 21:24 10309 May 26 05:09	0°II		morning set	10310 Apr 29 13.37 10310 May 07 06:01	11° 8 35'19	
morning set	10309 May 28 02:51	3° П 00'20		max. Earth dist.	10310 May 07 00:01	26° 8 44'05	1.43869 AU
	10307 Way 20 02.31	3 100 20		max. Earth dist.	10310 Way 10 21.13		1.43007710
•	10309 Jun 03 12:18	13°∏21'03	1 42059 AU		10310 May 18 21:55	0∘π	
max. Earth dist.	10309 Jun 03 12:18	13° Ⅱ 21'03	1.42059 AU		10310 May 18 21:55	П°0	
•	10309 Jun 03 12:18 10309 Jun 11 01:16	13° Ⅲ 21'03 26° Ⅲ 06'28		superior conj	10310 May 18 21:55 10310 May 22 22:03	0°П 6°П32'22	-2°09'12
max. Earth dist.			-1°50′28	superior conj minimum elong	•		-2°09'12 2°09'30
max. Earth dist.	10309 Jun 11 01:16	26° Ⅲ 06′28	-1°50′28		10310 May 22 22:03	6°∏32'22	
max. Earth dist.	10309 Jun 11 01:16 10309 Jun 11 07:37	26°∏06'28 26°∏34'03	-1°50′28	minimum elong	10310 May 22 22:03 10310 May 23 01:55	6° Ⅲ 32'22 6° Ⅲ 48'21	
max. Earth dist. superior conj minimum elong	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42	26°∏06′28 26°∏34′03 0°໑	-1°50′28	minimum elong	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16	6°П32'22 6°П48'21 28°П08'06	
max. Earth dist. superior conj minimum elong evening rise	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54	26°¶06'28 26°¶34'03 0°© 15°©55'20	-1°50′28	minimum elong evening rise	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03	6°Д32'22 6°Д48'21 28°Д08'06 0°Э	
max. Earth dist. superior conj minimum elong evening rise	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41	26° II 06'28 26° II 34'03 0° 55'20 22° 507'08	-1°50′28	minimum elong evening rise asc. node	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43	6°∏32'22 6°∏48'21 28°∏08'06 0°© 11°©28'27	2°09'30
max. Earth dist. superior conj minimum elong evening rise asc. node	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28	26° \$\Pi\06'28\$ 26° \$\Pi\34'03\$ 0° \$\Sigma\\$ 15° \$\Sigma 555'20\$ 22° \$\Sigma 0' \Omega \\ 11° \$\Omega 36'36 \\ 15° \$\Omega 06'35\$	-1°50′28 1°50′20	minimum elong evening rise asc. node evening max el	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20	6° \$\Pi32'22\$ 6° \$\Pi48'21\$ 28° \$\Pi08'06\$ 0° \$\Sigma\$ 11° \$\Sigma 28'27\$ 24° \$\Sigma 48'56\$ 28° \$\Sigma 09'33\$ 27° \$\Sigma 33'09\$	2°09'30 18°05'14
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10	26° \$\Pi\06'28\$ 26° \$\Pi\34'03\$ 0° \$\Sigma\$ 15° \$\Sigma 555'20\$ 22° \$\Sigma 0' \Omega\$ 11° \$\Omega 36'36\$ 15° \$\Omega 06'35\$ 14° \$\Omega 42'03\$	-1°50'28 1°50'20 18°08'54	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36	6° II 32'22 6° II 48'21 28° II 08'06 0° © 11° © 28'27 24° © 48'56 28° © 09'33 27° © 33'09 22° © 23'51	2°09'30 18°05'14 2°22'30
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50	26° \$\Pi\06'28\$ 26° \$\Pi\34'03\$ 0° \$\Sigma\2007'08\$ 0° \$\Omega\$ 11° \$\Omega\36'36\$ 15° \$\Omega\606'35\$ 14° \$\Omega\42'03\$ 9° \$\Omega\52'01\$	-1°50'28 1°50'20 18°08'54 1°24'15	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22	6° II 32'22 6° II 48'21 28° II 08'06 0° © 11° © 28'27 24° © 48'56 28° © 09'33 27° © 33'09 22° © 23'51 22° © 16'40	2°09'30 18°05'14 2°22'30 2°21'21
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14	26° \$\Pi\06'28\$ 26° \$\Pi\34'03\$ 0° \$\Sigma\2000 15° \$\Sigma\5'\2000 22° \$\Sigma\07'08\$ 0° \$\Omega\11° \$\Omega\36'36\$ 15° \$\Omega\06'35\$ 14° \$\Omega\42'03\$ 9° \$\Omega\52'01\$ 9° \$\Omega\46'34	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 07 09:36 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00	6°II32'22 6°II48'21 28°II08'06 0°© 11°©28'27 24°©48'56 28°©09'33 27°©33'09 22°©23'51 22°©16'40 19°©22'21	2°09'30 18°05'14 2°22'30
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max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34	26° II 06'28 26° II 34'03 0° S 15° S55'20 22° S07'08 0° A 11° A 36'36 15° A 06'35 14° A 42'03 9° A 52'01 9° A 46'34 6° A 53'26 5° A 37'04	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43	6°II32'22 6°II48'21 28°II08'06 0°S 11°S28'27 24°S48'56 28°S09'33 27°S33'09 22°S23'51 22°S16'40 19°S22'21 16°S17'17 14°S50'03	2°09'30 18°05'14 2°22'30 2°21'21
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18	26° II 06'28 26° II 34'03 0° S 15° S55'20 22° S07'08 0° N 11° N 36'36 15° N 06'35 14° N 42'03 9° N 52'01 9° N 46'34 6° N 53'26 5° N 37'04 4° N 05'34	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10	6°II32'22 6°II48'21 28°II08'06 0°G 11°G28'27 24°G48'56 28°G09'33 27°G33'09 22°G23'51 22°G16'40 19°G22'21 16°G17'17 14°G50'03 13°G53'09	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36	26° II 06'28 26° II 34'03 0° © 15° ©55'20 22° ©07'08 0° N 11° N 36'36 15° N 06'35 14° N 42'03 9° N 46'34 6° N 53'26 5° N 37'04 4° N 05'34 2° N 06'27	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38	6°II32'22 6°II48'21 28°II08'06 0°S 11°S28'27 24°S48'56 28°S09'33 27°S33'09 22°S23'51 22°S16'40 19°S22'21 16°S17'17 14°S50'03 13°S53'09 21°S55'06	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Aug 21 11:35	26° II 06'28 26° II 34'03 0° 555'20 22° 507'08 0° 11° 136'36 15° 106'35 14° 142'03 9° 152'01 9° 146'34 6° 153'26 5° 137'04 4° 105'34 2° 106'27 9° 159'09	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26	6°II32'22 6°II48'21 28°II08'06 0°II1°II28'27 24°II28'27 24°II28'27 24°II28'27 24°II28'27 22°II28'27 16°II21'17 14°II28'25'03 13°II28'28'20 10°II28'20 10°I	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Sep 05 23:02	26° M06'28 26° M34'03 0° 5 15° 555'20 22° 507'08 0° N 11° N36'36 15° N06'35 14° N42'03 9° N52'01 9° N46'34 6° N53'26 5° N37'04 4° N05'34 2° N06'27 9° N59'09 0° M	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38	6° II 32'22 6° II 48'21 28° II 08'06 0° 5 11° 528'27 24° 548'56 28° 509'33 27° 533'09 22° 523'51 22° 516'40 19° 522'21 16° 517'17 14° 550'03 13° 553'09 21° 555'06 0° \$\Omega\$ 0° III	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Sep 05 23:02 10309 Sep 21 12:51	26° M06'28 26° M34'03 0° 9 15° 955'20 22° 907'08 0° N 11° N36'36 15° N06'35 14° N42'03 9° N52'01 9° N46'34 6° N53'26 5° N37'04 4° N05'34 2° N06'27 9° N59'09 0° M 28° M14'00	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23	6°II32'22 6°II48'21 28°II08'06 0°II32'27 24°II38'56 28°II33'09 22°II3'51 22°II6'40 19°II32'21 16°II7'17 14°II50'03 13°II3'09 21°II5'00 0°II 0°II	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	10309 Jun 11 01:16 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Sep 05 23:02 10309 Sep 21 12:51 10309 Sep 22 09:18	26° \$\Pi06'28\$ 26° \$\Pi34'03\$ 0° \$\Sigma 15° \$\Sis5'20\$ 22° \$\Sigma 07'08\$ 0° \$\Omega 11° \$\Omega 36'36\$ 15° \$\Omega 6'35\$ 14° \$\Omega 42'03\$ 9° \$\Omega 52'01\$ 9° \$\Omega 46'34\$ 6° \$\Omega 53'26\$ 5° \$\Omega 37'04\$ 4° \$\Omega 6'27\$ 9° \$\Omega 59'09\$ 0° \$\Pi 28° \$\Pi 14'00\$ 0° \$\Omega \$	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU	minimum elong evening rise 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	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23 10310 Sep 08 09:41	6° II 32'22 6° II 48'21 28° II 08'06 0° 5 11° 528'27 24° 548'56 28° 509'33 27° 533'09 22° 523'51 22° 516'40 19° 522'21 16° 517'17 14° 550'03 13° 553'09 21° 555'06 0° I 0° I 14° II 28'50 18° II 12'17	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU 27°56'22
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set	10309 Jun 11 01:16 10309 Jun 11 07:37 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 17 15:10 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Sep 05 23:02 10309 Sep 21 12:51 10309 Sep 22 09:18 10309 Sep 22 14:04	26° II 06'28 26° II 34'03 0° II 5° II 55'20 22° II 70'08 0° II 1° II 36'36 15° II 6'35 14° II 6'35 14° II 6'34 6° II 53'26 5° II 37'04 4° II 6'34 2° II 6'34 3° II 6'35 3° II 6'	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU 27°44'29	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23 10310 Sep 08 09:41 10310 Sep 12 01:49	6° II 32'22 6° II 48'21 28° II 08'06 0° 5 11° 528'27 24° 548'56 28° 509'33 27° 533'09 22° 523'51 22° 516'40 19° 522'21 16° 517'17 14° 550'03 13° 553'09 21° 555'06 0° I 0° I 10° II 2'17 26° II 01'22	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU
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max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	10309 Jun 11 01:16 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Aug 21 11:35 10309 Sep 05 23:02 10309 Sep 21 12:51 10309 Sep 22 14:04 10309 Sep 22 14:04 10309 Sep 29 17:30 10309 Sep 29 17:30 10309 Sep 29 15:17 10309 Oct 06 10:51 10309 Oct 06 02:54 10309 Oct 06 02:54	26° M06'28 26° M34'03 0° 9 15° 955'20 22° 907'08 0° 11° 136'36 15° 106'35 14° 142'03 9° 152'01 9° 146'34 6° 153'26 5° 137'04 4° 105'34 2° 106'27 9° 159'09 0° 10 28° 10 14'00 0° 12 15° 12 24'55 13° 154'18 15° 155'12 15° 142'51 0° 142'47 0° 11 0° 12 16° 14'43	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU 27°44'29	minimum elong evening rise 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	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23 10310 Sep 07 14:10 10310 Sep 12 01:49 10310 Sep 14 00:49 10310 Sep 14 00:49 10310 Sep 20 22:00 10310 Sep 28 02:52 10310 Oct 12 06:35	6° II 32'22 6° II 48'21 28° II 08'06 0° II 1° II 28'27 24° II 28' II 28'27 24° II 28'	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU 27°56'22 1.31987 AU 0°54'21 0°53'56
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	10309 Jun 11 01:16 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Aug 21 11:35 10309 Sep 05 23:02 10309 Sep 21 12:51 10309 Sep 22 14:04 10309 Sep 22 14:04 10309 Sep 29 17:30 10309 Sep 29 17:30 10309 Sep 29 17:30 10309 Sep 29 15:17 10309 Oct 06 10:51 10309 Oct 06 02:54 10309 Oct 22 05:13 10309 Oct 25 09:21	26° M06'28 26° M34'03 0° 9 15° 955'20 22° 907'08 0° 11° 136'36 15° 106'35 14° 142'03 9° 152'01 9° 146'34 6° 153'26 5° 137'04 4° 105'34 2° 106'27 9° 159'09 0° 10 28° 10 14'00 0° 12 15° 12 24'55 13° 154'18 15° 155'12 15° 142'51 0° 142'47 0° 11 0° 12 16° 14'43	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU 27°44'29 1.31521 AU 1°13'45 1°13'32	minimum elong evening rise 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	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23 10310 Sep 07 14:10 10310 Sep 12 01:49 10310 Sep 13 21:38 10310 Sep 14 00:49 10310 Sep 28 02:52 10310 Oct 12 06:35 10310 Oct 15 21:39	6° II 32'22 6° II 48'21 28° II 08'06 0° II 1° II 28'28'27 24° II 28' II	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU 27°56'22 1.31987 AU 0°54'21 0°53'56
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node desc. node	10309 Jun 11 01:16 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Aug 21 11:35 10309 Sep 05 23:02 10309 Sep 21 12:51 10309 Sep 22 14:04 10309 Sep 22 14:04 10309 Sep 28 19:42 10309 Sep 29 17:30 10309 Sep 29 15:17 10309 Oct 06 10:51 10309 Oct 06 02:54 10309 Oct 25 09:21 10309 Nov 03 08:47	26° M06'28 26° M34'03 0° 9 15° 955'20 22° 907'08 0° 11° 136'36 15° 106'35 14° 142'03 9° 152'01 9° 146'34 6° 153'26 5° 137'04 4° 105'34 2° 106'27 9° 159'09 0° 10 28° 10 14'00 0° 10 0° 124'55 13° 15' 12 15° 124'55 13° 15' 12 15° 124'55 13° 15' 12 15° 124'55 13° 15' 12	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU 27°44'29 1.31521 AU 1°13'45 1°13'32	minimum elong evening rise 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	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23 10310 Sep 07 14:10 10310 Sep 12 01:49 10310 Sep 13 21:38 10310 Sep 14 00:49 10310 Sep 20 22:00 10310 Sep 28 02:52 10310 Oct 12 06:35 10310 Oct 15 21:39 10310 Oct 15 21:39	6° II 32'22 6° II 48'21 28° II 08'06 0° © 11° © 28'27 24° © 48'56 28° © 09'33 27° © 33'09 22° © 22'51 22° © 16'40 19° © 22'21 16° © 17'17 14° © 50'03 13° © 55'06 0° Ω 0° II 21° II 28'50 18° II 12'17 26° II 12'17 26° II 12'17 26° II 12'17 26° II 12'18 0° II 21° III 48'34 25° III 40'34 0° ズ	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU 27°56'22 1.31987 AU 0°54'21 0°53'56
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	10309 Jun 11 01:16 10309 Jun 13 06:42 10309 Jun 22 02:54 10309 Jun 25 12:41 10309 Jun 30 00:28 10309 Jul 08 08:40 10309 Jul 15 06:06 10309 Jul 17 15:10 10309 Jul 24 14:50 10309 Jul 24 17:14 10309 Jul 27 22:15 10309 Jul 29 11:34 10309 Jul 31 16:18 10309 Aug 07 03:36 10309 Aug 21 11:35 10309 Sep 05 23:02 10309 Sep 21 12:51 10309 Sep 22 14:04 10309 Sep 22 14:04 10309 Sep 28 19:42 10309 Sep 29 15:17 10309 Oct 06 02:54 10309 Oct 06 02:54 10309 Oct 25 09:21 10309 Nov 03 08:47 10309 Nov 03 08:47 10309 Nov 03 08:47	26° M06'28 26° M34'03 0° 9 15° 955'20 22° 907'08 0° 11° 136'36 15° 106'35 14° 142'03 9° 152'01 9° 166'34 6° 153'26 5° 137'04 4° 105'34 2° 106'27 9° 159'09 0° 10 28° 10 14'00 0° 10 0° 124'55 13° 15'54'18 15° 15'55'12 15° 15'51'2	-1°50'28 1°50'20 18°08'54 1°24'15 1°23'03 0.59904 AU 27°44'29 1.31521 AU 1°13'45 1°13'32 25°50'41 0.58042 AU	minimum elong evening rise 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	10310 May 22 22:03 10310 May 23 01:55 10310 Jun 04 15:16 10310 Jun 05 17:03 10310 Jun 12 09:43 10310 Jun 21 21:59 10310 Jun 28 08:29 10310 Jul 01 01:20 10310 Jul 07 09:36 10310 Jul 07 12:22 10310 Jul 10 08:00 10310 Jul 13 21:19 10310 Jul 16 08:43 10310 Jul 20 14:10 10310 Aug 03 17:38 10310 Aug 10 19:26 10310 Aug 30 02:38 10310 Sep 06 14:23 10310 Sep 07 14:23 10310 Sep 12 01:49 10310 Sep 13 21:38 10310 Sep 14 02:55 10310 Sep 14 00:49 10310 Sep 28 02:52 10310 Oct 12 06:35 10310 Oct 15 21:39 10310 Oct 21 09:20 10310 Oct 21 09:20 10310 Oct 29 14:47	6° II 32'22 6° II 48'21 28° II 08'06 0° © 11° © 28'27 24° © 48'56 28° © 09'33 27° © 33'09 22° © 23'51 22° © 16'40 19° © 22'21 16° © 17'17 14° © 50'03 13° © 53'09 21° © 55'06 0° Ω 0° II 2'17 26° II 12'17 26° II 12'18 0° II 21'18	2°09'30 18°05'14 2°22'30 2°21'21 0.62166 AU 27°56'22 1.31987 AU 0°54'21 0°53'56 24°20'11

	10210 N 11 10 16	270M 14125	5020112	. E 4 E 4	10211 0 + 21 16 27	000 07105	0.54000 ATT
inferior conj	10310 Nov 11 18:16	27°M14'25		min. Earth dist.	10311 Oct 21 16:27		0.54999 AU
minimum elong	10310 Nov 11 21:43	27°M09'02	5°38'33	inferior conj	10311 Oct 22 19:40	7°M48'20	
morning rise	10310 Nov 20 04:08	23° M ₁3'57		minimum elong	10311 Oct 22 15:06	7°M54'50	5°35'50
direct	10310 Nov 22 18:18	22°M56'13		morning rise	10311 Oct 31 05:57	4°M00'20	
morning max el	10310 Dec 02 15:56	27°M38'21	19°42'48	direct	10311 Nov 03 10:17	3°M37'09	
	10310 Dec 04 21:34	0° ∡ ¹		morning max el	10311 Nov 14 21:39	9° M .01'43	21°05'04
asc. node	10310 Dec 05 09:56	0° ∡ 36′29		asc. node	10311 Nov 22 06:52	18°M03'16	
morning set	10310 Dec 20 05:51	25° ₹ '59'25			10311 Nov 29 06:05	0° ∡ ¹	
	10310 Dec 22 05:20	0°ಕ		morning set	10311 Dec 04 14:20	10° ∡ ¹43′08	
	10210 5 20 02 46		1010100		1001175 11 00 15	200 701150	1022112
superior conj	10310 Dec 28 02:46		1°18'09	superior conj	10311 Dec 11 22:15	26° ₹ 01'56	1°32'12
minimum elong	10310 Dec 28 05:35	12° る 05'32		minimum elong	10311 Dec 12 00:06	26° ∡ 11'30	1°32'32
max. Earth dist.	10311 Jan 03 06:24	23° る 39'51	1.37507 AU		10311 Dec 13 20:46	0°ಕ	
evening rise	10311 Jan 06 23:40	0°≈25'26		max. Earth dist.	10311 Dec 16 15:43	5° ට 34'45	1.35483 AU
	10311 Jan 06 17:57	0° ≈		evening rise	10311 Dec 20 16:39	13°る20'24	
desc. node	10311 Jan 08 05:15	2°≈36'01		desc. node	10311 Dec 26 02:13	23° පි 05'51	
	10311 Jan 25 11:04	0° ∀			10311 Dec 30 03:52	0° ≈	
evening max el	10311 Feb 11 12:51	21° ∺ 12'29	25°21'32		10312 Jan 20 09:27	0° ∀	
retrograde	10311 Feb 23 16:23	28° ¥ 13'53		evening max el	10312 Jan 25 02:12		26°25'47
evening set	10311 Mar 01 12:31	25°) 48'49		retrograde	10312 Feb 07 00:14	12°) 16′45	
asc. node	10311 Mar 03 08:36	24° ∺ 02'13		evening set	10312 Feb 13 07:53	9°) 44'31	
min. Earth dist.	10311 Mar 05 21:49	20° ¥ 58'55	0.67649 AU	min. Earth dist.	10312 Feb 17 11:02	5° ¥ 28'57	0.66566 AU
inferior conj	10311 Mar 07 04:33	19° ₩ 19'36	1°12'42	asc. node	10312 Feb 18 05:47	4°) 32′32	
minimum elong	10311 Mar 07 02:55	19° ∺ 24'53	1°12'15	inferior conj	10312 Feb 19 05:31	3° ¥ 20′21	0°19'24
morning rise	10311 Mar 12 17:43	13° ¥ 26′05		minimum elong	10312 Feb 19 05:00	3° ¥ 21′56	0°19'27
direct	10311 Mar 16 05:21	12°) 16′20			10312 Feb 22 03:55	30° ₹ ≈	
morning max el	10311 Mar 23 05:40	16° ∺ 07'32	19°15'18	morning rise	10312 Feb 25 03:01	27° ≈ 36′54	
	10311 Apr 02 23:50	0 ° Υ		direct	10312 Feb 28 03:52	26° ≈ 45′05	
greatest brilliancy	10311 Apr 05 03:45	3° Ƴ 11'59	-0.7m		10312 Mar 05 10:27	0° ℋ	
desc. node	10311 Apr 06 05:49	4° Ƴ 49'40		morning max el	10312 Mar 05 16:58	0°) 15′46	18°28'56
morning set	10311 Apr 16 06:44	20° Ƴ 10'37		desc. node	10312 Mar 23 02:35	25° ₩ 01'08	
	10311 Apr 22 14:52	0° 8		morning set	10312 Mar 26 03:29	29°) 49′30	
max. Earth dist.	10311 Apr 29 11:57	10° 8 45'25	1.45098 AU		10312 Mar 26 06:08	0° Y	
						••	
superior conj	10311 May 02 19:14	15° 8 58'40		superior conj	10312 Apr 11 02:10	24° Y 53'34	
minimum elong	10311 May 02 16:24	15° 8 47'29	2°11'50	minimum elong	10312 Apr 10 17:18		1°53'10
	10311 May 11 12:36	Π °0		max. Earth dist.	10312 Apr 11 06:12	25° Y 09′20	1.45629 AU
evening rise	10311 May 17 05:51	9° Ⅱ 23′10			10312 Apr 14 08:33	$0^{\circ}S$	
asc. node	10311 May 30 06:47	0°924'27		evening rise	10312 Apr 26 20:23	19° 8 38'45	
	10311 May 30 00:11	0 \circ			10312 May 03 09:31	$\alpha \sigma \mathbf{T}$	
evening max el			10000110		•	$\Pi^{\circ}0$	
evening max er	10311 Jun 05 11:23	8° © 16'51	18°20'13	greatest brilliancy	10312 May 06 01:37	4° Ⅱ 11'18	-0.8m
retrograde	10311 Jun 05 11:23 10311 Jun 11 20:56	8°©16'51 11°©42'12	18°20'13	greatest brilliancy asc. node	•		-0.8m
•			18°20'13		10312 May 06 01:37	4° Ⅱ 11'18	-0.8m 18°52'59
retrograde	10311 Jun 11 20:56	11°5642'12		asc. node	10312 May 06 01:37 10312 May 16 03:53	4° П 11'18 18° П 46'45	
retrograde evening set	10311 Jun 11 20:56 10311 Jun 14 21:32	11°\$42'12 10°\$52'03 5°\$25'27		asc. node evening max el	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15	4°П11'18 18°П46'45 21°П53'49	
retrograde evening set inferior conj	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24	11°542'12 10°552'03 5°525'27 5°519'41	2°58'05	asc. node evening max el retrograde	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32	4°П11'18 18°П46'45 21°П53'49 25°П36'42	
retrograde evening set inferior conj minimum elong	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23	11°542'12 10°552'03 5°525'27 5°519'41	2°58'05 2°57'18	asc. node evening max el retrograde evening set	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12	4°П11'18 18°П46'45 21°П53'49 25°П36'42 24°П31'32 18°П49'15 18°П46'40	18°52'59
retrograde evening set inferior conj minimum elong	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII 29°I08'27	2°58'05 2°57'18	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59	18°52'59 3°15'21
retrograde evening set inferior conj minimum elong min. Earth dist.	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII	2°58'05 2°57'18	asc. node evening max el retrograde evening set inferior conj minimum elong	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12	4°П11'18 18°П46'45 21°П53'49 25°П36'42 24°П31'32 18°П49'15 18°П46'40	18°52'59 3°15'21 3°14'50
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII 29°I08'27	2°58'05 2°57'18	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59 12° Π28'45 9° Π44'12	18°52'59 3°15'21 3°14'50
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00 10311 Jul 03 09:46	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII 29°I108'27 26°II28'25	2°58'05 2°57'18	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11 10312 Jun 09 03:32	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59 12° Π28'45	18°52'59 3°15'21 3°14'50
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00 10311 Jul 03 09:46 10311 Jul 03 05:49	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII 29°II08'27 26°II28'25 26°II28'31	2°58'05 2°57'18 0.64247 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11 10312 Jun 09 03:32 10312 Jun 15 12:46	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59 12° Π28'45 9° Π44'12	18°52'59 3°15'21 3°14'50 0.65993 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00 10311 Jul 03 09:46 10311 Jul 03 05:49 10311 Jul 12 01:19	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII 29°II08'27 26°II28'25 26°II28'31 0°\$	2°58'05 2°57'18 0.64247 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11 10312 Jun 09 03:32 10312 Jun 15 12:46 10312 Jun 19 02:51	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59 12° Π28'45 9° Π44'12 10° Π28'08	18°52'59 3°15'21 3°14'50 0.65993 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00 10311 Jul 03 09:46 10311 Jul 03 05:49 10311 Jul 12 01:19 10311 Jul 17 03:24	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°\$II 29°II08'27 26°II28'25 26°II28'31 0°\$6 4°\$29'29	2°58'05 2°57'18 0.64247 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11 10312 Jun 09 03:32 10312 Jun 15 12:46 10312 Jun 19 02:51 10312 Jun 28 14:03	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59 12° Π28'45 9° Π44'12 10° Π28'08 17° Π30'07	18°52'59 3°15'21 3°14'50 0.65993 AU
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00 10311 Jul 03 09:46 10311 Jul 03 05:49 10311 Jul 12 01:19 10311 Jul 17 03:24 10311 Aug 05 09:42 10311 Aug 21 06:35 10311 Aug 22 05:18 10311 Aug 26 00:43 10311 Aug 26 06:31 10311 Aug 29 08:21 10311 Aug 29 08:21 10311 Aug 29 06:56 10311 Sep 05 09:49 10311 Sep 05 09:49 10311 Sep 05 09:49	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°\$II 29°I08'27 26°I128'31 0°\$ 4°\$29'29 0°\$\Omega\$28'\Omega\$07'21 0°\$\Omega\$7"\Omega\$46'26 8°\$\Omega\$16'41 14°\$\Omega\$737 0°\$\Omega\$00"\Omega\$1	2°58'05 2°57'18 0.64247 AU 27°31'34 1.32950 AU 0°30'09 0°29'42	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11 10312 Jun 09 03:32 10312 Jun 15 12:46 10312 Jun 19 02:51 10312 Jun 28 14:03 10312 Jun 28 14:03 10312 Jul 09 00:37 10312 Jul 28 08:02 10312 Aug 03 11:28 10312 Aug 07 13:26 10312 Aug 12 07:27 10312 Aug 12 07:22 10312 Aug 12 07:22 10312 Aug 12 01:34 10312 Aug 12 03:22 10312 Aug 12 03:22 10312 Aug 12 03:22 10312 Aug 12 13:10 10312 Aug 12 22:08 10312 Aug 19 18:57 10312 Aug 27 16:32	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π49'15 18° Π46'40 16° Π37'59 12° Π28'08 17° Π30'07 0° © 0° Ω 11° Ω11'21 19° Ω05'32 28° Ω43'47 28° Ω43'23 28° Ω13'21 29° Ω13'29 28° Ω22'38 0° Μ	18°52'59 3°15'21 3°14'50 0.65993 AU 26°36'25 1.34419 AU 0°01'41
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	10311 Jun 11 20:56 10311 Jun 14 21:32 10311 Jun 20 18:24 10311 Jun 20 20:23 10311 Jun 23 03:14 10311 Jun 25 18:04 10311 Jun 26 18:00 10311 Jul 03 09:46 10311 Jul 03 05:49 10311 Jul 12 01:19 10311 Jul 17 03:24 10311 Aug 05 09:42 10311 Aug 21 06:35 10311 Aug 22 05:18 10311 Aug 26 00:43 10311 Aug 26 06:31 10311 Aug 29 08:21 10311 Aug 29 08:21 10311 Aug 29 06:56 10311 Sep 05 09:22 10311 Sep 05 09:49 10311 Sep 22 06:43 10311 Sep 27 08:37 10311 Sep 27 08:37	11°\$42'12 10°\$52'03 5°\$25'27 5°\$19'41 2°\$41'37 30°RII 29°I08'27 26°I128'31 0°\$4°\$29'29 0°\$\Omega\$28'\Omega\$07'21 0°\$\mathred{m}\$46'26 8°\$\mathred{m}\$16'41 14°\$\mathred{m}\$47'27 14°\$\mathred{m}\$39'53 29°\$\mathred{m}\$57'37 0°\$\Omega\$0\$\mathred{m}\$48'44 7°\$\mathred{m}\$42'23	2°58'05 2°57'18 0.64247 AU 27°31'34 1.32950 AU 0°30'09 0°29'42	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise	10312 May 06 01:37 10312 May 16 03:53 10312 May 18 22:15 10312 May 25 15:32 10312 May 29 00:12 10312 Jun 03 13:22 10312 Jun 03 14:12 10312 Jun 05 07:11 10312 Jun 09 03:32 10312 Jun 15 12:46 10312 Jun 19 02:51 10312 Jun 28 14:03 10312 Jun 28 14:03 10312 Jul 09 00:37 10312 Jul 28 08:02 10312 Aug 03 11:28 10312 Aug 07 13:26 10312 Aug 12 07:27 10312 Aug 12 07:22 10312 Aug 12 07:22 10312 Aug 12 01:34 10312 Aug 12 03:22 10312 Aug 12 03:22 10312 Aug 12 03:22 10312 Aug 12 13:10 10312 Aug 12 22:08 10312 Aug 19 18:57 10312 Aug 27 16:32	4° Π11'18 18° Π46'45 21° Π53'49 25° Π36'42 24° Π31'32 18° Π46'40 16° Π37'59 12° Π28'45 9° Π44'12 10° Π28'08 17° Π30'07 0° Φ 0° Ω 11° Ω11'21 19° Ω05'32 28° Ω43'47 28° Ω43'23 28° Ω13'21 29° Ω13'29 28° Ω22'38 0° ႃm 14° ႃm 25'38 0° Φ	18°52'59 3°15'21 3°14'50 0.65993 AU 26°36'25 1.34419 AU 0°01'41 0°01'23

4 1	10212 6 10 22 05	220 0 02126		. 1	10212 4 21 14 17	20 0 1 (144	
retrograde	10312 Sep 19 23:05	22° ₽ 03'36		retrograde	10313 Aug 31 14:17	2° 2 16'44	
evening set	10312 Sep 22 08:25	21° ≙ 50'13		desc. node	10313 Sep 01 22:21	2° ≏ 11'51	
inferior conj	10312 Oct 01 11:55	17° £ 54'43	-4°36'38	evening set	10313 Sep 02 11:22	2° ჲ 07'09	
minimum elong	10312 Oct 01 02:11	18° ഫ 08'28	4°34'04		10313 Sep 08 03:26	30°R, Mp	
min. Earth dist.	10312 Oct 02 00:22	17° ≏ 37'10	0.54620 AU	inferior conj	10313 Sep 11 09:27	28° Mp 05'42	-2°53'27
morning rise	10312 Oct 09 20:20	14° ഫ 01'30		minimum elong	10313 Sep 11 01:44	28° m 17'32	2°50'43
direct	10312 Oct 13 18:34	13° ≏ 28'19		min. Earth dist.	10313 Sep 13 10:24	26° m 50'42	0.55196 AU
morning max el	10312 Oct 26 15:09	19° ≏ 37'41	22°45'30	morning rise	10313 Sep 19 14:26	23° m 47'34	
Č	10312 Nov 04 04:40	0° M .		direct	10313 Sep 24 07:59	22° m 58'27	
asc. node	10312 Nov 08 03:47	6°ML18'39		morning max el	10313 Oct 08 02:39	29° m) 47'26	24°32'42
morning set	10312 Nov 18 01:23	25°M31'05		morning max cr	10313 Oct 08 07:56	0° ت را کا	21 32 12
morning set	10312 Nov 20 03:48	0° ⊼ ¹		asc. node	10313 Oct 06 07:30 10313 Oct 26 00:41	ა _ 25° ჲ 11'04	
	10312 NOV 20 03.46	0 X -		asc. node		25 = 11 04 0° M	
	1001031 07 01 00	100 3000	102010.4		10313 Oct 28 13:04		
superior conj	10312 Nov 25 01:23	10° ₹ ³32'06	1°39'04	morning set	10313 Nov 02 13:12	10° M ₁8′25	
minimum elong	10312 Nov 25 02:02	10° ∡ ³35'33	1°39'29				
max. Earth dist.	10312 Nov 28 08:27	17° ∡ ¹28'52	1.33803 AU	superior conj	10313 Nov 09 09:32	25°M14'16	1°39'24
evening rise	10312 Dec 02 23:51	26° ₹ 51'41		minimum elong	10313 Nov 09 09:01	25°M11'27	1°39'47
	10312 Dec 04 14:41	0°ರ		max. Earth dist.	10313 Nov 11 09:20	29°M34'21	1.32557 AU
desc. node	10312 Dec 11 23:15	13° る 21'59			10313 Nov 11 14:05	0° ∡ ¹	
	10312 Dec 22 11:39	0° ≈		evening rise	10313 Nov 16 17:46	10° ∡ 50′22	
evening max el	10313 Jan 06 15:36	18° ≈ 34'33	27°11'08		10313 Nov 26 21:43	0°ರ	
retrograde	10313 Jan 20 02:04	25° ≈ 57'08		desc. node	10313 Nov 28 20:20	3°₹18'04	
evening set	10313 Jan 26 19:28	23°≈23'18		dese. node	10313 Dec 18 08:29	0° ≈	
min. Earth dist.	10313 Jan 20 17:26	19° ≈ 41'00	0.65118 AU	evening max el	10313 Dec 18 08:29	0 ~ 1° ≈ 46'24	27°30'30
				retrograde		9°≈06'14	27 30 30
inferior conj	10313 Feb 01 23:33	17°≈10'45		Č	10314 Jan 02 20:57		
minimum elong	10313 Feb 02 00:48	17°≈07'14	0°41'45	evening set	10314 Jan 09 20:43	6°≈38'02	
asc. node	10313 Feb 04 02:57	14° ≈ 52'51		min. Earth dist.	10314 Jan 13 14:50	3° ≈ 26′15	0.63349 AU
morning rise	10313 Feb 08 07:38	11° ≈ 39'43		inferior conj	10314 Jan 16 07:53	0° ≈ 43'47	
direct	10313 Feb 10 23:24	11° ≈ 02'15		minimum elong	10314 Jan 16 11:32	0° ≈ 34'40	1°50'27
morning max el	10313 Feb 17 08:52	14° ≈ 23'49	17°59'28		10314 Jan 17 01:29	30°₽₹	
	10313 Feb 28 13:33	0° ℋ		asc. node	10314 Jan 22 00:07	26° る 00'55	
morning set	10313 Mar 07 05:36	10° ¥ 56′15		morning rise	10314 Jan 23 04:26	25° る 28'22	
desc. node	10313 Mar 09 23:23	15°) 26′44		direct	10314 Jan 25 13:11	25° る 01'27	
	10313 Mar 18 23:02	0 ° Υ		morning max el	10314 Feb 01 02:27	28° る 23'52	17°47'22
					10314 Feb 02 14:21	0° ≈	
superior conj	10313 Mar 21 12:39	4° Ƴ 05'05	-1°18'47	morning set		0° ≈ 23° ≈ 19'10	
superior conj				morning set	10314 Feb 17 10:01	23° ≈ 19'10	
minimum elong	10313 Mar 21 04:10	3° Ƴ 31′27	1°17'46	_	10314 Feb 17 10:01 10314 Feb 21 07:04	23°≈19'10 0° 米	
minimum elong max. Earth dist.	10313 Mar 21 04:10 10313 Mar 25 02:02	3° Υ 31'27 9° Υ 41'52		morning set desc. node	10314 Feb 17 10:01	23° ≈ 19'10	
minimum elong	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12	3° Υ 31'27 9° Υ 41'52 29° Υ 11'10	1°17'46	desc. node	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10	23°≈19'10 0°¥ 6°¥01'46	0°36'16
minimum elong max. Earth dist. evening rise	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53	3° Y 31'27 9° Y 41'52 29° Y 11'10 0° ∀	1°17'46 1.45416 AU	desc. node	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29	23°≈19'10 0°¥ 6°¥01'46 14°¥14'17	
minimum elong max. Earth dist.	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36	3°Y31'27 9°Y41'52 29°Y11'10 0°8 20°817'18	1°17'46 1.45416 AU	desc. node superior conj minimum elong	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39	23°≈19'10 0° ℋ 6° ℋ01'46 14° ℋ14'17 13° ℋ58'34	0°35'32
minimum elong max. Earth dist. evening rise greatest brilliancy	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26	3°Y31'27 9°Y41'52 29°Y11'10 0°႘ 20°႘17'18	1°17'46 1.45416 AU -0.7m	desc. node	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42	23°≈19'10 0° ℋ 6° ℋ01'46 14° ℋ14'17 13° ℋ58'34 24° ℋ06'02	
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37	3°Y31'27 9°Y41'52 29°Y11'10 0°℧ 20°℧17'18 0°Ⅲ 5°Ⅲ35'13	1°17'46 1.45416 AU	desc. node superior conj minimum elong max. Earth dist.	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13	23°≈19'10 0° ₭ 6° ₭01'46 14° ₭14'17 13° ₭58'34 24° ₭06'02 0° ℃	0°35'32
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02	3°Y31'27 9°Y41'52 29°Y11'10 0°℧ 20°℧17'18 0°Ⅲ 5°Ⅲ35'13 6°Ⅲ24'51	1°17'46 1.45416 AU -0.7m	desc. node superior conj minimum elong	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37	23°≈19'10 0°₩ 6°₩01'46 14°₩14'17 13°₩58'34 24°₩06'02 0°Ψ' 8°❤33'51	0°35'32
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21	3°Y31'27 9°Y41'52 29°Y11'10 0°℧ 20°℧17'18 0°瓜 5°瓜35'13 6°瓜24'51 9°瓜47'03	1°17'46 1.45416 AU -0.7m	desc. node superior conj minimum elong max. Earth dist.	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02	23°≈19'10 0°₩ 6°₩01'46 14°₩14'17 13°₩58'34 24°₩06'02 0°Ψ 8°Ψ'33'51 0°₩	0°35'32
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02	3°Y31'27 9°Y41'52 29°Y11'10 0°℧ 20°℧17'18 0°Ⅲ 5°Ⅲ35'13 6°Ⅲ24'51	1°17'46 1.45416 AU -0.7m	desc. node superior conj minimum elong max. Earth dist.	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37	23°≈19'10 0°₩ 6°₩01'46 14°₩14'17 13°₩58'34 24°₩06'02 0°Ψ' 8°❤33'51	0°35'32
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21	3°Y31'27 9°Y41'52 29°Y11'10 0°℧ 20°℧17'18 0°瓜 5°瓜35'13 6°瓜24'51 9°瓜47'03	1°17'46 1.45416 AU -0.7m 19°42'10	desc. node superior conj minimum elong max. Earth dist. evening rise	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02	23°≈19'10 0°₩ 6°₩01'46 14°₩14'17 13°₩58'34 24°₩06'02 0°Ψ 8°Ψ'33'51 0°₩	0°35'32 1.44486 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43	3°Υ31'27 9°Υ41'52 29°Υ11'10 0°႘ 20°႘17'18 0°Π 5°Π35'13 6°Π24'51 9°Π47'03 8°Π26'14	1°17'46 1.45416 AU -0.7m 19°42'10	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 17 02:37 10314 Mar 31 10:02 10314 Apr 15 05:24	23°≈19'10 0° ₩ 6° ₩01'46 14° ₩14'17 13° ₩58'34 24° ₩06'02 0° Ψ 8° ₩33'51 0° ₩ 19° ₩17'41	0°35'32 1.44486 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24	3°Υ31'27 9°Υ41'52 29°Υ11'10 0°႘ 20°႘17'18 0°Π 5°Π35'13 6°Π24'51 9°Π47'03 8°Π26'14 2°Π29'35	1°17'46 1.45416 AU -0.7m 19°42'10	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02 10314 Apr 15 05:24 10314 Apr 19 22:14	23°≈19'10 0° ₩ 6° ₩01'46 14° ₩14'17 13° ₩58'34 24° ₩06'02 0° Ψ 8° ❤33'51 0° ੴ 19° ੴ17'41 23° ੴ04'59	0°35'32 1.44486 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24 10313 May 18 15:03 10313 May 19 18:22	3°Υ31'27 9°Υ41'52 29°Υ11'10 0°႘ 20°႘17'18 0°Π 5°Π35'13 6°Π24'51 9°Π47'03 8°Π26'14 2°Π29'35 2°Π30'44	1°17'46 1.45416 AU -0.7m 19°42'10 3°17'54 3°17'28	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02 10314 Apr 15 05:24 10314 Apr 19 22:14 10314 Apr 23 12:02 10314 Apr 27 14:59	23°≈19'10 0° ₩ 6° ₩01'46 14° ₩14'17 13° ₩58'34 24° ₩06'02 0° Ψ 8° ₩33'51 0° ₩ 19° ₩17'41 23° ₩04'59 24° ₩07'34	0°35'32 1.44486 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24 10313 May 18 15:03 10313 May 19 18:22 10313 May 20 12:40	3°Υ31'27 9°Υ41'52 29°Υ11'10 0°႘ 20°႘17'18 0°Π 5°Π35'13 6°Π24'51 9°Π47'03 8°Π26'14 2°Π29'35 2°Π30'44 0°Π59'43 30°R႘	1°17'46 1.45416 AU -0.7m 19°42'10 3°17'54 3°17'28	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02 10314 Apr 15 05:24 10314 Apr 19 22:14 10314 Apr 23 12:02 10314 Apr 27 14:59 10314 May 02 21:50	23°≈19'10 0° ₩ 6° ₩01'46 14° ₩14'17 13° ₩58'34 24° ₩06'02 0° Ψ 8° ❤33'51 0° ₩ 19° ੴ17'41 23° ੴ04'59 24° ੴ07'34 22° ੴ30'57 16° ੴ21'37	0°35'32 1.44486 AU 20°45'32 3°08'17
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minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24 10313 May 18 15:03 10313 May 19 18:22 10313 May 20 12:40 10313 May 20 12:40 10313 May 20 21:54 10313 May 20 21:54 10313 Jun 05 23:52 10313 Jun 10 05:23 10313 Jun 11 00:00 10313 Jul 02 23:40 10313 Jul 17 01:01	3°Y31'27 9°Y41'52 29°Y11'10 0°B 20°B17'18 0°II 5°II35'13 6°II24'51 9°II47'03 8°II26'14 2°II29'35 2°II30'44 0°II59'43 30°RB 26°B09'52 23°B31'30 26°B21'39 0°II 0°II46'23 0°© 23°S30'25	1°17'46 1.45416 AU -0.7m 19°42'10 3°17'54 3°17'28 0.67315 AU	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02 10314 Apr 15 05:24 10314 Apr 19 22:14 10314 Apr 23 12:02 10314 Apr 27 14:59 10314 May 02 21:50 10314 May 02 20:32 10314 May 03 10:52 10314 May 03 10:52 10314 May 08 01:52 10314 May 08 01:52 10314 May 23 20:49 10314 May 24 09:30 10314 Jun 06 05:49 10314 Jun 25 21:11 10314 Jun 28 18:09	23°≈19'10 0° € 6° € 101'46 14° € 14'17 13° € 58'34 24° € 10'02 0° ♥ 8° ♥ 33'51 0° ₺ 19° ₺ 17'41 23° ₺ 04'59 24° ₺ 07'34 22° ₺ 30'57 16° ₺ 21'37 16° ₺ 26'05 15° ₺ 36'38 10° ₺ 05'02 7° ₺ 41'02 13° ₺ 39'46 14° ₺ 11'24 0° Ⅱ 0° ₤ 4° ₤ 50'59	0°35'32 1.44486 AU 20°45'32 3°08'17 3°07'47 0.68181 AU 23°52'13
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minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24 10313 May 18 15:03 10313 May 19 18:22 10313 May 19 18:22 10313 May 20 12:40 10313 May 20 12:40 10313 May 20 21:54 10313 Jun 05 23:52 10313 Jun 10 05:23 10313 Jun 11 00:00 10313 Jul 02 23:40 10313 Jul 17 01:01 10313 Jul 20 16:10	3°Y31'27 9°Y41'52 29°Y11'10 0°8 20°817'18 0°II 5°II35'13 6°II24'51 9°II47'03 8°II26'14 2°II29'35 2°II30'44 0°II59'43 30°R8 26°809'52 23°831'30 26°821'39 0°II 0°II46'23 0°S 23°S30'25 0°\Omegan 21'027	1°17'46 1.45416 AU -0.7m 19°42'10 3°17'54 3°17'28 0.67315 AU 25°20'01	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 31 10:02 10314 Apr 15 05:24 10314 Apr 19 22:14 10314 Apr 23 12:02 10314 Apr 27 14:59 10314 May 02 21:50 10314 May 02 20:32 10314 May 03 10:52 10314 May 03 10:52 10314 May 08 01:52 10314 May 08 01:52 10314 May 23 20:49 10314 May 24 09:30 10314 Jun 06 05:49 10314 Jun 25 21:11 10314 Jun 28 18:09	23°≈19'10 0° € 6° € 101'46 14° € 14'17 13° € 58'34 24° € 10'02 0° ♥ 8° ♥ 33'51 0° ₺ 19° ₺ 17'41 23° ₺ 04'59 24° ₺ 07'34 22° ₺ 30'57 16° ₺ 21'37 16° ₺ 26'05 15° ₺ 36'38 10° ₺ 05'02 7° ₺ 41'02 13° ₺ 39'46 14° ₺ 11'24 0° Ⅱ 0° ₤ 4° ₤ 50'59	0°35'32 1.44486 AU 20°45'32 3°08'17 3°07'47 0.68181 AU 23°52'13
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minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24 10313 May 18 15:03 10313 May 19 18:22 10313 May 20 12:40 10313 May 20 12:40 10313 May 20 21:54 10313 May 29 21:54 10313 Jun 05 23:52 10313 Jun 10 05:23 10313 Jun 11 00:00 10313 Jul 02 23:40 10313 Jul 17 01:01 10313 Jul 20 16:10 10313 Jul 26 21:24 10313 Jul 26 23:16 10313 Jul 26 23:16 10313 Jul 26 23:16 10313 Jul 26 23:16 10313 Jul 20 00:15 10313 Aug 04 00:36 10313 Aug 04 16:29	3°Y31'27 9°Y41'52 29°Y11'10 0°8 20°817'18 0°11 5°135'13 6°124'51 9°147'03 8°126'14 2°129'35 2°130'44 0°159'43 30°88 26°809'52 23°831'30 26°821'39 0°11 0°146'23 0°\$ 23°\$30'25 0°\$10'27 0°\$ 12°\$\Omega\$10'50 12°\$\Omega\$20'10 18°\$\Omega\$26'39 28°\$\Omega\$39'33	1°17'46 1.45416 AU -0.7m 19°42'10 3°17'54 3°17'28 0.67315 AU 25°20'01 1.36338 AU -0°30'04	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 17 02:37 10314 Apr 15 05:24 10314 Apr 19 22:14 10314 Apr 23 12:02 10314 Apr 27 14:59 10314 May 02 21:50 10314 May 02 20:32 10314 May 02 02:32 10314 May 03 10:52 10314 May 03 10:52 10314 May 13 12:03 10314 May 23 20:49 10314 May 24 09:30 10314 Jun 06 05:49 10314 Jun 06 05:49 10314 Jun 02 13:25 10314 Jun 02 13:25 10314 Jun 02 22:33 10314 Jul 09 22:33 10314 Jul 09 22:33 10314 Jul 10 02:46 10314 Jul 10 02:46 10314 Jul 12 13:39	23°≈19'10 0° € 6° € 101'46 14° € 14'17 13° € 58'34 24° € 10'02 0° ♥ 8° ♥ 33'51 0° ₺ 19° ₺ 17'41 23° ₺ 04'59 24° ₺ 07'34 22° ₺ 30'57 16° ₺ 21'37 16° ₺ 26'05 15° ₺ 36'38 10° ₺ 05'02 7° ₺ 41'02 13° ₺ 39'46 14° ₺ 11'24 0° Ⅱ 0° ₺ 4° ₺ 50'59 11° ₺ 27'53 24° ₺ 58'50 25° ₺ 18'43 0° ₺	0°35'32 1.44486 AU 20°45'32 3°08'17 3°07'47 0.68181 AU 23°52'13 1.38557 AU -1°03'15
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	10313 Mar 21 04:10 10313 Mar 25 02:02 10313 Apr 06 15:12 10313 Apr 07 03:53 10313 Apr 20 12:36 10313 Apr 27 10:26 10313 May 02 04:37 10313 May 03 01:02 10313 May 09 13:21 10313 May 13 06:43 10313 May 18 15:24 10313 May 18 15:03 10313 May 19 18:22 10313 May 20 12:40 10313 May 20 12:40 10313 May 20 21:54 10313 May 29 21:54 10313 Jun 05 23:52 10313 Jun 10 05:23 10313 Jun 11 00:00 10313 Jul 02 23:40 10313 Jul 17 01:01 10313 Jul 20 16:10 10313 Jul 20 13:56	3°Y31'27 9°Y41'52 29°Y11'10 0°℧ 20°℧17'18 0°Ⅲ 5°Ⅲ35'13 6°Ⅲ24'51 9°Ⅲ47'03 8°Ⅲ26'14 2°Ⅲ29'35 2°Ⅲ30'44 0°Ⅲ59'43 30°ℵ℧ 26°℧09'52 23°℧31'30 26°℧21'39 0°Ⅲ 0°Ⅲ46'23 0°郖 23°郖30'25 0°矶10'27 0°矶 12°Ω10'50 12°Ω20'10 18°Ω26'39 28°Ω39'33 0°™	1°17'46 1.45416 AU -0.7m 19°42'10 3°17'54 3°17'28 0.67315 AU 25°20'01 1.36338 AU -0°30'04	desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	10314 Feb 17 10:01 10314 Feb 21 07:04 10314 Feb 24 20:10 10314 Mar 01 18:29 10314 Mar 01 14:39 10314 Mar 07 20:42 10314 Mar 11 14:13 10314 Mar 17 02:37 10314 Mar 17 02:37 10314 Apr 15 05:24 10314 Apr 19 22:14 10314 Apr 19 22:14 10314 Apr 27 14:59 10314 May 02 21:50 10314 May 02 20:32 10314 May 03 10:52 10314 May 03 10:52 10314 May 03 10:52 10314 May 13 12:03 10314 May 23 20:49 10314 May 24 09:30 10314 Jun 06 05:49 10314 Jun 06 05:49 10314 Jun 06 05:49 10314 Jun 06 05:49 10314 Jun 07 22:33 10314 Jun 09 22:33 10314 Jun 09 22:33 10314 Jun 10 02:46 10314 Jun 10 02:46 10314 Jun 11 10 10:40	23°≈19'10 0° € 6° € 101'46 14° € 14'17 13° € 58'34 24° € 10'02 0° ♥ 8° ♥ 33'51 0° ₺ 19° ₺17'41 23° ₺04'59 24° ₺07'34 22° ₺30'57 16° ₺21'37 16° ₺26'05 15° ₺36'38 10° ₺05'02 7° ₺41'02 13° ₺39'46 14° ₺11'24 0° Ⅱ 0° ₤ 4° ₤50'59 11° ₤27'53 24° ₤58'50 25° ₤18'43 0° ₤ 8° ₤224'11	0°35'32 1.44486 AU 20°45'32 3°08'17 3°07'47 0.68181 AU 23°52'13 1.38557 AU -1°03'15

evening max el	10314 Aug 04 07:07	9° m 03'06	18°54'09		10315 Jul 04 17:24	$0^{\circ}\Omega$	
retrograde	10314 Aug 04 07:07 10314 Aug 12 20:45	13° M) 19'21	16 34 09	evening max el	10315 Jul	21° Ω 31'36	18°19'38
evening set	10314 Aug 12 20:43	13° m) 07'23		retrograde	10315 Jul 25 22:11	25°Ω14'17	18 1938
desc. node	10314 Aug 14 18:40 10314 Aug 19 19:36	10° m 57'58		evening set	10315 Jul 28 02:37	24°Ω55'30	
inferior conj	10314 Aug 17 17:30 10314 Aug 23 00:14	8° mp 49'19	-0°50'28	inferior conj	10315 Aug 04 12:45	20°Ω17'21	0°39'00
minimum elong	10314 Aug 22 00:14 10314 Aug 22 21:43	8° m ₀ 53'47	0°58'42	minimum elong	10315 Aug 04 14:04	20°Ω14'36	0°38'10
min. Earth dist.	10314 Aug 26 00:44	6° mg 41'20	0.56610 AU	desc. node	10315 Aug 04 14:04 10315 Aug 06 16:50	18° Ω 28'34	0 30 10
morning rise	10314 Aug 30 21:32	3° m 54'14	0.30010710	min. Earth dist.	10315 Aug 07 21:27	17° Ω 30'41	0.58611 AU
direct	10314 Sep 05 10:04	2° m/41'32		morning rise	10315 Aug 11 22:03	14° Ω 46'41	0.50011710
morning max el	10314 Sep 19 16:03	10° m/02'35	26°09'46	direct	10315 Aug 18 02:39	13° Ω 04'27	
morning max er	10314 Oct 04 20:34	0∘ ⊽	20 07 10	morning max el	10315 Sep 01 11:48	20° Ω 49'05	27°20'14
asc. node	10314 Oct 12 21:34	ა — 14° ჲ 30'49		morning man er	10315 Sep 09 10:41	0° m)	2, 2011
morning set	10314 Oct 18 00:07	25° ₽ 00'26			10315 Sep 27 16:25	0∘ ⊽	
morning sec	10314 Oct 20 07:32	0°M		asc. node	10315 Sep 29 18:24	ა — 4° ჲ 10'00	
	10311.000 20 07.32	0 110		morning set	10315 Oct 02 08:24	9° ₽ 31'42	
superior conj	10314 Oct 24 20:28	10°ML01'57	1°33'48			,	
minimum elong	10314 Oct 24 19:00	9°M53'52	1°33'59	superior conj	10315 Oct 09 08:14	24° ≏ 48'36	1°22'37
max. Earth dist.	10314 Oct 25 16:11	11°M51'15	1.31772 AU	minimum elong	10315 Oct 09 06:10	24° ₽ 37'06	1°22'32
evening rise	10314 Oct 31 19:27	25°M08'40		max. Earth dist.	10315 Oct 09 01:34	24° £ 11'33	1.31465 AU
	10314 Nov 03 03:58	0° ⊼ ¹			10315 Oct 11 16:14	0°M	
desc. node	10314 Nov 15 17:28	22° х 46′00		evening rise	10315 Oct 16 02:25	9° ™ 39'19	
	10314 Nov 20 12:14	0°ਰ		8	10315 Oct 26 11:35	0° ∡ 7	
evening max el	10314 Dec 02 11:19	14° る 21'29	27°18'16	desc. node	10315 Nov 02 14:38	11° х 33'54	
retrograde	10314 Dec 16 08:16	21° る 35'15		evening max el	10315 Nov 14 12:24	26° х 08'07	26°31'55
evening set	10314 Dec 23 08:27	19° る 21'29		v , v	10315 Nov 19 06:23	0°ਰ	
min. Earth dist.	10314 Dec 27 01:45	16° පි 33'51	0.61336 AU	retrograde	10315 Nov 28 10:46	3° ප 15'02	
inferior conj	10314 Dec 30 03:23	13° る 51'25		evening set	10315 Dec 05 02:25	1° る 25'44	
minimum elong	10314 Dec 30 09:36	13° る 37'38		V	10315 Dec 07 10:51	30°R. ✓	
morning rise	10315 Jan 06 13:19	8° る 54'57		min. Earth dist.	10315 Dec 09 02:06	28° х 50'14	0.59217 AU
direct	10315 Jan 08 17:37	8° පි 35'02		inferior conj	10315 Dec 12 06:24	26° х 23′21	
asc. node	10315 Jan 08 21:15	8° ろ 35'08		minimum elong	10315 Dec 12 14:17	26° ₹ ′08'08	4°17'10
morning max el	10315 Jan 15 18:33	12° る 07'48	17°53'21	morning rise	10315 Dec 20 04:49	21° × ⁷ 48'33	
	10315 Jan 27 18:03	0° ≈		direct	10315 Dec 22 08:21	21° × ⁷ 32'15	
morning set	10315 Jan 31 10:15	6° ≈ 38'07		asc. node	10315 Dec 26 18:20	22° х ⁴45′16	
morning sec	10515 0411 51 10.15	0.000,		morning max el	10315 Dec 30 05:29	25° × ⁷ 24'49	18°18'47
superior conj	10315 Feb 11 01:28	25° ≈ 35'44	0°04'55		10316 Jan 03 02:31	0°ਰ	
minimum elong	10315 Feb 11 01:56	25° ≈ 37'43	0°05'10	morning set	10316 Jan 15 00:26	20° る 34'47	
behind sun begin	10315 Feb 10 17:59	25°≈03'19			10316 Jan 19 23:35	0° ≈	
behind sun end	10315 Feb 11 09:53	26°≈12'01			10310 0411 17 23.30		
desc. node	10315 Feb 11 16:58	26° ≈ 42'32		superior conj	10316 Jan 24 07:20	8° ≈ 01'00	0°39'46
	10315 Feb 13 15:13	0° ∀		minimum elong	10316 Jan 24 10:00	8° ≈ 13'13	0°39'46
max. Earth dist.	10315 Feb 18 11:31	8° ¥ 04'36	1.42938 AU	desc. node	10316 Jan 29 13:48	17° ≈ 24'50	
evening rise	10315 Feb 24 21:54	18° ¥ 23'54	12900110	max. Earth dist.	10316 Jan 31 21:03	21°≈22'53	1.40955 AU
evening noe	10315 Mar 04 10:55	0° Υ		evening rise	10316 Feb 05 11:27	29° ≈ 04'14	1.10,00110
	10315 Mar 26 05:45	0°8		overmig rise	10316 Feb 06 01:07	0° ∀	
evening max el	10315 Mar 29 00:48	3° 8 01'24	21°59'35		10316 Feb 25 23:47	0° Υ	
asc. node	10315 Apr 06 19:27	8° 8 32'12	21 0, 30	evening max el	10316 Mar 10 16:17	16° Y 47'02	23°19'29
retrograde	10315 Apr 07 09:49	8° 8 33'58		retrograde	10316 Mar 21 05:08	23° Y ′00'36	
evening set	10315 Apr 11 23:18	6° 8 42'02		asc. node	10316 Mar 23 16:41	22° Y ′31′00	
inferior conj	10315 Apr 17 06:33	0° 8 22'21	2°48'08	evening set	10316 Mar 26 06:01	20°Υ′54'25	
minimum elong	10315 Apr 17 04:36	0° 8 29'07	2°47'31	min. Earth dist.	10316 Mar 31 03:29	15° Ƴ 09'12	0.68554 AU
min. Earth dist.	10315 Apr 17 06:39	0° 8 21'58	0.68591 AU	inferior conj	10316 Mar 31 15:31	14° Y ′27'41	2°18'20
	10315 Apr 17 12:57	30° Ŗ ♈		minimum elong	10316 Mar 31 13:19	14° Y 35'15	2°17'39
morning rise	10315 Apr 22 09:46	24° Y ′10'22		morning rise	10316 Apr 05 20:34	8° Y 21'35	
direct	10315 Apr 27 06:22	22° Y °05'48		direct	10316 Apr 10 03:44	6° Y 38'35	
morning max el	10315 May 06 20:52	27° Y ′44'47	22°22'45	morning max el	10316 Apr 18 13:16	11° Y °27'57	20°59'51
	10315 May 08 23:55	0°8		desc. node	10316 Apr 26 14:31	21° Y °04'30	
desc. node	10315 May 10 17:42	1° 8 59'52			10316 May 03 00:30	0°8	
	10315 May 30 20:48	0°II		morning set	10316 May 19 00:04	24° 8 03'53	
morning set	10315 Jun 09 10:05	15° I I02'06			10316 May 22 18:18	0°II	
max. Earth dist.	10315 Jun 14 11:45	23° Ⅲ 25'47	1.40834 AU	max. Earth dist.	10316 May 26 15:46		1.42886 AU
and				Landi dibt.		017	000710
		0°©					
	10315 Jun 18 07:50	0ං ව		superior coni	10316 Jun 02 17:22	18°∏00'10	-2°00'00
superior coni	10315 Jun 18 07:50		-1°34'48	superior conj minimum elong	10316 Jun 02 17:22 10316 Jun 02 23:12	18°Ⅲ00'19 18°Ⅲ25'06	
superior conj	10315 Jun 18 07:50 10315 Jun 22 06:42	6°\$58'26		superior conj minimum elong	10316 Jun 02 23:12	18° Ⅱ 25′06	
minimum elong	10315 Jun 18 07:50 10315 Jun 22 06:42 10315 Jun 22 12:48	6°\$58'26 7°\$25'44		minimum elong	10316 Jun 02 23:12 10316 Jun 09 15:43	18° Ⅱ 25'06 0°©	
	10315 Jun 18 07:50 10315 Jun 22 06:42	6°\$58'26			10316 Jun 02 23:12	18° Ⅱ 25′06	

	10316 Jun 27 06:24	0°N		evening rise	10317 May 27 14:48	20°II22'05	
evening max el	10316 Jul 27 00:24 10316 Jul 01 01:00	4° Ω 31'03	18°05'04	evening rise	10317 May 27 14.48 10317 Jun 02 07:06	0°95	
retrograde	10316 Jul 07 16:34	$7^{\circ}\Omega55'13$	18 03 04	asc. node	10317 Jun 02 07:00 10317 Jun 06 12:10	6°954'54	
evening set	10316 Jul 10 04:53	$7^{\circ}\Omega_{26'03}$		evening max el	10317 Jun 00 12:10	17°951'07	18°09'27
inferior conj	10316 Jul 16 21:34	2° Ω 27'56	1°51'58	retrograde	10317 Jun 20 23:36	21° © 11'45	10 0) 27
minimum elong	10316 Jul 17 00:19	2° Ω 21'18		evening set	10317 Jun 23 19:50	20°929'35	
minimum ciong	10316 Jul 19 11:01	30°Rூ	1 30 43	inferior conj	10317 Jun 29 22:46	15°S12'53	2°40'06
min. Earth dist.	10316 Jul 20 02:08	29° © 24'57	0.60872 AU	minimum elong	10317 Jun 30 01:18	15°506'00	2°39'05
morning rise	10316 Jul 23 17:03	26°931'32	0.00072710	min. Earth dist.	10317 Jul 02 15:48	12°516'42	0.63089 AU
desc. node	10316 Jul 23 13:59	26°936'36		morning rise	10317 Jul 06 05:05	9° 5 01'10	0.05009110
direct	10316 Jul 30 07:42	24°\$20'28		desc. node	10317 Jul 10 11:07	6°548'49	
	10316 Aug 11 02:45	0° Ω		direct	10317 Jul 12 22:26	6°€28'47	
morning max el	10316 Aug 13 14:22	2° Ω 19'02	27°54'16	morning max el	10317 Jul 26 22:03	14° © 31'19	27°49'57
	10316 Sep 02 20:50	0° m			10317 Aug 08 11:06	0°N	
morning set	10316 Sep 15 12:13	23° Mp 47'15			10317 Aug 26 11:21	o°mp	
asc. node	10316 Sep 15 15:12	24° m 02'47		morning set	10317 Aug 30 09:21	7° m) 40'34	
	10316 Sep 18 10:51	0∘ <u>⊽</u>		asc. node	10317 Sep 02 12:01	14° m 03'47	
max. Earth dist.	10316 Sep 21 09:48	6° £ 25'39	1.31650 AU	max. Earth dist.	10317 Sep 04 13:09	18° m 23'20	1.32337 AU
superior conj	10316 Sep 22 19:03	9° ≙ 28'56	1°06'10	superior conj	10317 Sep 07 03:00	23° m 56'37	0°44'40
minimum elong	10316 Sep 22 16:49	9° £ 16'34	1°05'50	minimum elong	10317 Sep 07 03:00 10317 Sep 07 01:07	23° Mp 46'22	0°44'12
•	10316 Sep 22 10.49 10316 Sep 29 12:36	9 = 10 34 24° £ 16'40	1 03 30	minimum clong	10317 Sep 07 01:07 10317 Sep 09 21:36	23 IIV40 22 0° 亞	0 44 12
evening rise	10316 Sep 29 12.36 10316 Oct 02 05:38	0°M		evening rise	10317 Sep 09 21.36 10317 Sep 14 00:03	0 <u>₽</u> 8° ₽ 54'35	
desc. node	10316 Oct 02 03.38 10316 Oct 19 11:50	29°M26'08		evening rise	10317 Sep 14 00.03 10317 Sep 24 19:30	0°M	
desc. node	10316 Oct 19 11.30 10316 Oct 19 22:18	29 IIG2008 0° √		desc. node	10317 Sep 24 19.30 10317 Oct 06 09:04	16° M L00'46	
evening max el	10316 Oct 19 22:18 10316 Oct 26 05:27	0 x ⁴ 7° x ⁴03'47	25°14'39	evening max el	10317 Oct 00 09:04 10317 Oct 07 16:38	17°ML20'16	23°37'42
retrograde	10316 Nov 09 02:25	14° 🗷 02'29	23 14 39	retrograde	10317 Oct 07 10:38 10317 Oct 21 05:07	24°ML05'06	23 37 42
evening set	10316 Nov 14 21:53	12° × 45'40		evening set	10317 Oct 21 03:07 10317 Oct 25 16:54	23°M21'12	
min. Earth dist.	10316 Nov 14 21:33	10° × 45'40	0.57216 AU	min. Earth dist.	10317 Oct 23 10:34 10317 Nov 01 02:48		0.55621 AU
inferior conj	10316 Nov 22 13:53	8°×10'55		inferior conj	10317 Nov 01 02:48	19° M 09'07	
minimum elong	10316 Nov 22 13:33	8°×10'02	5°17'25	minimum elong	10317 Nov 03 01:02 10317 Nov 03 01:17	19°ML08'46	5°44'23
morning rise	10316 Nov 30 21:08	3° х 58′19	3 17 23	morning rise	10317 Nov 03 01:17 10317 Nov 11 11:32	15°M15'16	3 44 23
direct	10316 Nov 30 21:08 10316 Dec 03 05:26	3° х 42′09		direct	10317 Nov 11 11:32 10317 Nov 14 07:19	14°ML55'31	
morning max el	10316 Dec 12 07:22	8°×704'05	19°05'33	morning max el	10317 Nov 14 07:19	19°ML55'11	20°15'11
asc. node	10316 Dec 12 07:22	8° ₹ 23'35	19 03 33	asc. node	10317 Nov 24 20:44 10317 Nov 29 12:18	25°M14'39	20 13 11
asc. node	10316 Dec 26 11:40	0°る		asc. node	10317 Nov 23 12:16 10317 Dec 02 18:20	0° ₹	
morning set	10316 Dec 29 00:10	4° ප 56'47		morning set	10317 Dec 02 16:20	19° ∡ 734'25	
morning sec	10310 Dec 27 00:10	1 030 17		morning sec	10317 Dec 18 07:52	0°る	
superior conj	10317 Jan 06 07:22	21° ප 16'55	1°06'30		10317 Dec 10 07.52	° O	
minimum elong	10317 Jan 06 10:28	21° ට 31'51		superior conj	10317 Dec 20 20:52	5° ರ 10'09	1°25'02
mmmum viong	10317 Jan 10 22:33	0°≈	1 0033	minimum elong	10317 Dec 20 23:21	5° ට 22'36	1°25'16
max. Earth dist.	10317 Jan 13 03:13	3°≈59'20	1.38769 AU	max. Earth dist.	10317 Dec 26 10:22	16°පි05'10	1.36616 AU
desc. node	10317 Jan 15 10:41	8°≈05'19	1.50707110	evening rise	10317 Dec 30 05:42	23° る 10'21	1.50010710
evening rise	10317 Jan 16 22:39	10° ≈ 41'36		desc. node	10318 Jan 02 07:37	28° ට 40'10	
<i>8</i>	10317 Jan 28 20:29	0°) €			10318 Jan 03 01:57	0° ≈	
	10317 Feb 20 15:37	0°Υ			10318 Jan 22 14:15	0°) €	
evening max el	10317 Feb 21 05:58	0° Υ 35'55	24°38'54	evening max el	10318 Feb 03 19:25	14°) €25'39	25°50'47
retrograde	10317 Mar 04 20:37	7° Y 22'32		retrograde	10318 Feb 16 07:21	21°) 34'34	
evening set	10317 Mar 10 09:37	5° Ƴ 03'50		evening set	10318 Feb 22 08:32	19°) €06'06	
asc. node	10317 Mar 10 13:54	4° Υ 54'36		asc. node	10318 Feb 25 11:05	15° ¥ 56′09	
	10317 Mar 14 21:09	30° ₹ ₩		min. Earth dist.	10318 Feb 26 15:12	14°) € 30'51	0.67238 AU
min. Earth dist.	10317 Mar 14 23:04	29°) 53′37	0.68098 AU	inferior conj	10318 Feb 28 02:51	12°) € 38'34	0°51'14
inferior conj	10317 Mar 15 22:55	28°) 34'13	1°39'19	minimum elong	10318 Feb 28 01:37	12°) 42′28	0°50'56
minimum elong	10317 Mar 15 20:56	28°) 40′51	1°38'42	morning rise	10318 Mar 05 19:16	6°) 48′58	
morning rise	10317 Mar 21 08:24	22°) € 35'27		direct	10318 Mar 09 02:14	5°) 47′03	
direct	10317 Mar 25 02:53	21°) 13′55		morning max el	10318 Mar 15 20:39	9°) 27'42	18°53'33
morning max el	10317 Apr 01 13:04	25°) 22'37	19°49'05	C	10318 Mar 30 21:00	$0^{\circ}\mathbf{\Upsilon}$	
Č.	10317 Apr 05 15:27	0° Υ		desc. node	10318 Mar 31 08:05	0° Υ 42'35	
desc. node	10317 Apr 13 11:18	10° Ƴ 41'32		morning set	10318 Apr 07 06:20	11° Υ 26'44	
greatest brilliancy	10317 Apr 14 12:43	12° Υ 13'59	-0.6m	Č	10318 Apr 19 04:00	0°8	
5	10317 Apr 26 08:10	0°8		max. Earth dist.	10318 Apr 21 20:14		1.45419 AU
morning set	10317 Apr 27 23:05	2° 8 29'27				J - 1 - 2 J	
max. Earth dist.	10317 May 09 03:03		1.44473 AU	superior conj	10318 Apr 23 17:07	7° 8 07'34	-2°06'27
			. ,2 - 10	minimum elong	10318 Apr 23 11:11	6° 8 44'14	
superior conj	10317 May 14 03:41	27° 8 59'15	-2°12'34	,	10318 May 08 01:29	0°II	-
minimum elong	10317 May 14 05:06	28° 8 05'00		evening rise	10318 May 08 19:12	1° Ⅱ 11'42	
	•	0°II	/	asc. node	10318 May 24 09:15	25° I 37'46	
	10317 May 15 09:27	0- П			10310 IVIAV 24 09 11	Z3 H3/40	

	10219 M 27, 20-00	000			10210 4 02 22.12	1.00002100	1940/29
	10318 May 27 20:00	0°©	10022102	superior conj	10319 Apr 02 23:13	16° ℃ 03'08	
evening max el	10318 May 29 03:29	1°523'58	18°32'02	minimum elong	10319 Apr 02 13:40	15° Y 25'44	1°39'39
retrograde	10318 Jun 04 15:08	4°955'00		max. Earth dist.	10319 Apr 04 15:56	18° Y 42'34	1.45630 AU
evening set	10318 Jun 07 19:13	3°958'23			10319 Apr 11 21:32	0°8	
	10318 Jun 12 04:06	30° Ŗ Ⅱ		evening rise	10319 Apr 19 00:27	11° 8 06'18	
inferior conj	10318 Jun 13 12:22	28° Ⅱ 24'44	3°07'25	greatest brilliancy	10319 Apr 30 08:52	28° 8 41'34	-0.7m
minimum elong	10318 Jun 13 13:53	28° Ⅱ 20'10	3°06'45		10319 May 01 05:35	Π $^{\circ}$ 0	
min. Earth dist.	10318 Jun 15 14:45	25° Ⅱ 53'40	0.65043 AU	asc. node	10319 May 11 06:24	13° Ⅱ 42'34	
morning rise	10318 Jun 19 07:38	22° Ⅱ 05'46		evening max el	10319 May 12 12:34	15° Ⅱ 02'49	19°11'54
direct	10318 Jun 25 21:11	19° Ⅱ 22'45		retrograde	10319 May 19 11:34	18° Ⅱ 56'58	
desc. node	10318 Jun 27 08:12	19° Ⅱ 29'58		evening set	10319 May 22 23:51	17° Ⅱ 45'06	
morning max el	10318 Jul 09 08:30	27° Ⅱ 18'16	27°11'18	inferior conj	10319 May 28 10:43	11° Ⅱ 56′13	3°18'03
	10318 Jul 11 21:20	0 \circ \odot		minimum elong	10319 May 28 11:02	11° Ⅱ 55'12	3°17'35
	10318 Aug 02 03:38	$0 {\circ} \Omega$		min. Earth dist.	10319 May 29 22:03	10° Ⅱ 02'03	0.66610 AU
morning set	10318 Aug 13 21:08	21° Ω 04'56		morning rise	10319 Jun 02 21:45	5° Ⅱ 35'31	
	10318 Aug 18 08:36	0° ™		direct	10319 Jun 09 02:46	2° ∏ 52'42	
max. Earth dist.	10318 Aug 18 08:10	29° Ω 57'48	1.33525 AU	desc. node	10319 Jun 14 05:13	4° Ⅱ 21'27	
asc. node	10318 Aug 20 08:53	4° Mp 09′04		morning max el	10319 Jun 21 19:14	10° Ⅱ 27'25	26°05'57
					10319 Jul 07 06:51	0ංම	
superior conj	10318 Aug 22 06:02	8° Mp 06'04	0°18'33		10319 Jul 25 17:32	$0^{\circ}\Omega$	
minimum elong	10318 Aug 22 05:07	8° m 01'11	0°18'08	morning set	10319 Jul 27 20:06	3° Ω 51'19	
evening rise	10318 Aug 29 10:56	23° Mp 27'56		max. Earth dist.	10319 Jul 31 16:40	11° Ω 09'39	1.35188 AU
	10318 Sep 01 14:25	0° ⊙					
evening max el	10318 Sep 19 05:37	27° ≏ 29'19	21°58'11	superior conj	10319 Aug 06 01:37	21° Ω 50'37	-0°11'30
	10318 Sep 22 02:23	0° M ,		minimum elong	10319 Aug 06 02:18	21° Ω 54'06	0°11'41
desc. node	10318 Sep 23 06:19	0°M50'37		behind sun begin	10319 Aug 05 22:07	21° Ω 32'47	
retrograde	10318 Oct 01 20:36	3°M46'15		behind sun end	10319 Aug 06 06:29	22° Ω 15'28	
evening set	10318 Oct 04 21:28	3°M25'37		asc. node	10319 Aug 07 05:46	24° Ω 14'37	
Ü	10318 Oct 12 21:13	30° Ŗ Ω			10319 Aug 10 00:33	0° m/	
inferior conj	10318 Oct 13 20:53	29° £ 26'55	-5°17'54	evening rise	10319 Aug 13 19:10	7° m) 50'49	
minimum elong	10318 Oct 13 13:18	29° ₽ 37'32		3	10319 Aug 25 18:25	0∘ ⊽	
min. Earth dist.	10318 Oct 13 09:56	29° Ω 42'14	0.54728 AU	evening max el	10319 Sep 01 05:12	8° £ 06'57	20°31'03
morning rise	10318 Oct 22 06:32	25° £ 39'39		desc. node	10319 Sep 10 03:34	13° ≏ 26'11	
direct	10318 Oct 25 18:25	25° £ 12'46		retrograde	10319 Sep 12 08:51	13° ≏ 38'59	
	10318 Nov 05 19:49	0°M		evening set	10319 Sep 14 10:40	13° ≏ 28'18	
morning max el	10318 Nov 06 20:39	0°M55'48	21°46'13	inferior conj	10319 Sep 23 13:40	9° £ 31'34	-3°56'24
asc. node	10318 Nov 16 09:15	13°ML03'11		minimum elong	10319 Sep 23 04:01	9° £ 45'33	3°53'23
	10318 Nov 25 13:45	0° ∡ ¹		min. Earth dist.	10319 Sep 24 18:35	8° ≏ 49'38	0.54744 AU
morning set	10318 Nov 27 16:00	4° ₹ ¹20'16		morning rise	10319 Oct 01 20:56	5° ₽ 29'52	
				direct	10319 Oct 06 02:57	4° £ 51'03	
superior conj	10318 Dec 04 19:57	19° ∡ ¹29'26	1°35'57	morning max el	10319 Oct 19 10:52	11° ≙ 18′15	23°31'21
minimum elong	10318 Dec 04 21:18	19° ∡ ³36'32	1°36'20		10319 Nov 02 08:20	0° M .	
max. Earth dist.	10318 Dec 08 22:46	27° ₹ 158′10	1.34716 AU	asc. node	10319 Nov 03 06:11	1°ML35'50	
	10318 Dec 09 23:04	0°ප		morning set	10319 Nov 12 03:37	19°ML09'00	
evening rise	10318 Dec 13 05:07	6° පි 21'05			10319 Nov 17 04:08	0° ∡ ¹	
desc. node	10318 Dec 20 04:37	19° පි 04'30					
	10318 Dec 26 19:02	0° ≈		superior conj	10319 Nov 19 01:33	4° ∡ ¹06'11	1°39'58
evening max el	10319 Jan 17 08:50	28° ≈ 08′20	26°47'51	minimum elong	10319 Nov 19 01:42	4° ∡ ¹06'55	1°40'23
	10319 Jan 19 09:30	0°) €		max. Earth dist.	10319 Nov 21 18:59	9° ∡ ¹56′13	1.33209 AU
retrograde	10319 Jan 30 12:34	5° ¥ 28'57		evening rise	10319 Nov 26 17:17	20° х 05′14	
evening set	10319 Feb 06 00:52	2° ¥ 55′03			10319 Dec 01 21:01	0°ಕ	
C	10319 Feb 09 02:07	30°R≈		desc. node	10319 Dec 07 01:41	9° ප 13'08	
min. Earth dist.	10319 Feb 10 01:38	28° ≈ 54'11	0.65993 AU		10319 Dec 20 19:40	0° ≈	
inferior conj	10319 Feb 12 01:10	26° ≈ 35'18	-0°05'52	evening max el	10319 Dec 30 21:37	11° ≈ 34'39	27°22'52
minimum elong	10319 Feb 12 01:19	26° ≈ 34'51	0°05'30	retrograde	10320 Jan 13 11:43	18° ≈ 57'33	
transit middle	10319 Feb 12 01:19	26° ≈ 34'51	0°05'30	evening set	10320 Jan 20 08:25	16° ≈ 24'45	
transit begin	10319 Feb 11 22:33	26° ≈ 42'58		min. Earth dist.	10320 Jan 24 04:20	12° ≈ 56'13	0.64398 AU
transit end	10319 Feb 12 04:05	26°≈26'45		inferior conj	10320 Jan 26 15:25	10° ≈ 19'04	
asc. node	10319 Feb 12 08:17	26°≈14'31		minimum elong	10320 Jan 26 17:38	10°≈13'11	1°10'04
morning rise	10319 Feb 18 02:56	20°≈57'02		asc. node	10320 Jan 30 05:26	6° ≈ 48'41	2.5
direct	10319 Feb 20 23:45	20°≈11'44		morning rise	10320 Feb 02 04:39	4°≈54'37	
morning max el	10319 Feb 27 10:18	23°≈36'53	18°14'26	direct	10320 Feb 02 04:39	4°≈22'12	
	10319 Mar 04 16:34	0° \	-0 1/20	morning max el	10320 Feb 11 03:22	7°≈43'00	17°52'14
desc. node	10319 Mar 18 04:52	21° \ 00'34		orming must of	10320 Feb 11 03:22 10320 Feb 26 04:51	0° ∺	1, 3214
morning set	10319 Mar 18 15:26	21°) (43'04		morning set	10320 Feb 28 05:25	3° ∺ 24'11	
0 ~	10319 Mar 23 19:27	0° Υ		desc. node	10320 Mar 04 01:41	11°) 30'43	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

gumariar agni	10220 Mar. 12, 16:26	2501/26107	1901106		10221 Eab. 17, 16:26	0°) €	
superior conj	10320 Mar 12 16:36	25°\(\frac{1}{36}\)'07 25°\(\frac{1}{36}\)'09'11		JJ.	10321 Feb 17 16:26	0° X 2° ¥ 08'24	
minimum elong	10320 Mar 12 09:54	25° Υ 09'11 0° Υ	1°00'08	desc. node	10321 Feb 18 22:29	2° 大 08°24	
E d E d	10320 Mar 15 10:41		1 45100 411		10221 F 1 21 00 57	60 V 15126	0010116
max. Earth dist.	10320 Mar 17 11:13	3°Υ12'06	1.45100 AU	superior conj	10321 Feb 21 08:57	6° ¥ 15′26	
evening rise	10320 Mar 28 14:14	20° Y 29'30		minimum elong	10321 Feb 21 07:10	6°) €07'55	0°17'45
	10320 Apr 03 19:57	0°8	0.6	max. Earth dist.	10321 Feb 28 03:54	17°) €24'56	1.43891 AU
greatest brilliancy	10320 Apr 12 14:33	13° 8 04'07	-0.6m	evening rise	10321 Mar 08 03:10	29°) 59′20	
evening max el	10320 Apr 24 16:33	28° 8 44'29	20°07'30		10321 Mar 08 03:20	0° Υ	
	10320 Apr 26 00:07	Π °0			10321 Mar 28 11:58	0°8	
asc. node	10320 Apr 27 03:34	0° Ⅱ 57'45		evening max el	10321 Apr 07 14:58	12° 8 27'42	21°16'04
retrograde	10320 May 02 10:07	3° Ⅱ 12'04		asc. node	10321 Apr 14 00:44	17° 8 08'57	
evening set	10320 May 06 07:21	1° Ⅱ 44'40		retrograde	10321 Apr 16 08:34	17° 8 35'33	
	10320 May 08 04:51	30° ₹႘		evening set	10321 Apr 20 15:48	15° 8 52'34	
inferior conj	10320 May 11 14:56	25° 8 42'17	3°15'11	inferior conj	10321 Apr 25 22:35	9° 8 38'42	3°00'57
minimum elong	10320 May 11 14:09	25° 8 44'56	3°14'45	minimum elong	10321 Apr 25 20:59	9° 8 44'18	3°00'25
min. Earth dist.	10320 May 12 11:53	24° 8 31'09	0.67739 AU	min. Earth dist.	10321 Apr 26 06:07	9° 8 12'33	0.68409 AU
morning rise	10320 May 16 20:41	19° 8 23'22		morning rise	10321 May 01 01:56	3° 8 23'48	
direct	10320 May 22 14:16	16° 8 50'13		direct	10321 May 06 06:28	1° 8 07'18	
desc. node	10320 May 31 02:12	20° 8 53'56		morning max el	10321 May 16 14:42	7° 8 16'21	23°13'47
morning max el	10320 Jun 03 04:57	23° 8 48'21	24°43'22	desc. node	10321 May 17 23:08	8° 8 40'54	
	10320 Jun 08 17:17	Π° 0			10321 Jun 03 07:03	Π° 0	
	10320 Jun 29 16:17	0°ಲ		morning set	10321 Jun 20 08:38	26° Ⅱ 40'16	
morning set	10320 Jul 09 01:39	15° © 47'28		Ü	10321 Jun 22 08:01	0°95	
max. Earth dist.	10320 Jul 12 16:01	22°9514'45	1.37253 AU	max. Earth dist.	10321 Jun 24 12:34	3°9545'30	1.39534 AU
	10320 Jul 16 19:50	0°N					
				superior conj	10321 Jul 02 05:11	17° © 31'39	-1°17'03
superior conj	10320 Jul 19 10:37	5° Ω 02'04	-0°44'08	minimum elong	10321 Jul 02 10:19	17°955'22	
minimum elong	10320 Jul 19 13:28	5°Ω15'57	0°44'00	minimum ciong	10321 Jul 08 19:37	0°Ω	1 10 10
asc. node	10320 Jul 24 02:41	14° Ω 16'12	0 44 00	asc. node	10321 Jul 10 23:37	4° Ω 10'13	
evening rise	10320 Jul 27 22:20	21°Ω56'06		evening rise	10321 Jul 11 17:33	5°Ω36'33	
evening rise	10320 Aug 01 00:40	0°m)		evening rise	10321 Jul 26 07:30	0°m)	
avanina may al		19° Mg 29'54	19°23'27	avanina may al		1° Mg 37'30	18°36'58
evening max el	10320 Aug 13 18:37	24° Mp 11'20	19 23 27	evening max el	10321 Jul 27 19:48		18 30 38
retrograde	10320 Aug 23 05:26			retrograde	10321 Aug 04 19:38	5° Mp 37'10	
evening set	10320 Aug 25 01:34	24° Mp 01'28		evening set	10321 Aug 06 20:08	5° m/22'43	
desc. node	10320 Aug 27 00:49	23° Mp 30'24	200.412.0	desc. node	10321 Aug 13 22:02	1° My 32'58	001.415.4
inferior conj	10320 Sep 02 17:32	19° m 54'13		inferior conj	10321 Aug 14 17:27	0° m 56'27	
minimum elong	10320 Sep 02 11:58	20° m 03'15	2°02'29	minimum elong	10321 Aug 14 16:51	0° m 57'35	0°14'57
min. Earth dist.	10320 Sep 05 06:34	18° Mp 15'16	0.55701 AU	transit middle	10321 Aug 14 16:51	0° m 57'35	0°14'57
morning rise	10320 Sep 10 19:46	15° Tp 20'39		transit begin	10321 Aug 14 15:29	1° Mp 00'10	
direct	10320 Sep 15 21:32	14° TD 22'15		transit end	10321 Aug 14 18:13	0° m 55'00	
morning max el	10320 Sep 29 22:26	21°Mp26'56	25°16'17		10321 Aug 15 23:02	30°R Ω	
	10320 Oct 07 09:37	0∘ ⊽		min. Earth dist.	10321 Aug 17 23:22	28° Ω 29'40	0.57414 AU
asc. node	10320 Oct 20 03:04	20° ≏ 40'50		morning rise	10321 Aug 22 10:06	25° Ω 45'43	
	10320 Oct 24 18:50	0°M₊		direct	10321 Aug 28 06:21	24° Ω 20'35	
morning set	10320 Oct 26 15:14	3°M54'28			10321 Sep 09 12:51	0° ™	
				morning max el	10321 Sep 11 14:00	1° m 52'24	26°43'38
superior conj	10320 Nov 02 11:08	18° ™ 51'35	1°37'44		10321 Oct 01 15:36	0∘ ⊽	
minimum elong	10320 Nov 02 10:11	18° M ₊46'22	1°38'02	asc. node	10321 Oct 06 23:57	10° ≙ 09'45	
max. Earth dist.	10320 Nov 03 22:32	22°M05'58	1.32161 AU	morning set	10321 Oct 11 01:13	18° ≏ 32'16	
	10320 Nov 07 14:26	0° ⊀			10321 Oct 16 07:10	0° M ₊	
evening rise	10320 Nov 09 14:50	4° ≯ 13'10					
desc. node	10320 Nov 22 22:46	28° ₹ 58'12		superior conj	10321 Oct 17 22:38	3°M39'30	1°29'43
	10320 Nov 23 13:55	8°0		minimum elong	10321 Oct 17 20:53	3°M29'42	1°29'47
evening max el	10320 Dec 12 08:01	24° る 32'03	27°29'26	max. Earth dist.	10321 Oct 18 06:51	4°M25'11	1.31588 AU
	10320 Dec 19 14:18	0° ≈		evening rise	10321 Oct 24 19:04	18° M ե37'42	
retrograde	10320 Dec 26 03:45	1°≈50'14			10321 Oct 30 09:41	0° ∡ 7	
	10321 Jan 01 07:36	30°Ŗ₹		desc. node	10321 Nov 09 19:54	18° ∡ 10′25	
evening set	10321 Jan 02 04:21	29° る 27'03			10321 Nov 18 07:41	8°0	
min. Earth dist.	10321 Jan 05 21:34	26° る 26'23	0.62511 AU	evening max el	10321 Nov 24 13:30	6° る 48'09	27°02'44
inferior conj	10321 Jan 08 18:41	23° る 42'06		retrograde	10321 Dec 08 11:20	13° る 58'23	
minimum elong	10321 Jan 08 23:26	23° る 30'46		evening set	10321 Dec 15 09:01	11° る 54'17	
morning rise	10321 Jan 15 20:54	18° る 34'19		min. Earth dist.	10321 Dec 19 04:05	9° ට 13'16	0.60438 AU
asc. node	10321 Jan 16 02:35	18° ට 29'44		inferior conj	10321 Dec 22 07:36	6° る 35'44	
direct	10321 Jan 18 03:15	18° පි 10'56		minimum elong	10321 Dec 22 07:30	6°る20'47	
morning max el	10321 Jan 24 20:42	21°る37'01	17°47'35	morning rise	10321 Dec 22 14:44 10321 Dec 29 23:03	1°る47'50	3 33 17
			- , . , . , . , . ,		- 00-1 200 27 20.00	1750	
				direct	10322 Jan 01 02:30	1°₹29'49	
morning set	10321 Jan 31 06:43 10321 Feb 09 19:01	0° ≈ 16° ≈ 12'52		direct asc. node	10322 Jan 01 02:30 10322 Jan 02 23:42	1°る29'49 1°る44'17	

morning max el	10322 Jan 08 10:57	5° ට 10'04	18°01'37		10322 Dec 31 07:42	8°0	
morning set	10322 Jan 24 01:47	29° る 49'37		morning set	10323 Jan 07 20:32	13° る 59'10	
	10322 Jan 24 04:01	0° ≈			10323 Jan 16 04:47	0° ≈	
superior conj	10322 Feb 03 02:04	18° ≈ 04'42	0°20'40	superior conj	10323 Jan 16 16:20	0° ≈ 53'59	0°52'08
minimum elong	10322 Feb 03 03:44	18°≈12'03	0°20'45	minimum elong	10323 Jan 16 19:22	1°≈08'09	0°52'07
desc. node	10322 Feb 05 05:17	22°≈49'58	0 20 43	desc. node	10323 Jan 23 16:08	13° ≈ 32'16	0 32 07
dese. Hode	10322 Feb 10 00:20	0° ∀		max. Earth dist.	10323 Jan 24 01:00	14°≈10'58	1.40036 AU
max. Earth dist.	10322 Feb 10 16:38	1° ₩ 07'59	1.42138 AU	evening rise	10323 Jan 28 04:08	21°≈14'03	1.10050710
evening rise	10322 Feb 16 05:20	10° ¥ 08'53			10323 Feb 02 13:02	0° ∀	
	10322 Mar 01 05:05	0° Υ			10323 Feb 23 07:19	0° Υ	
evening max el	10322 Mar 21 08:35		22°33'20	evening max el	10323 Mar 03 23:04	9° Y ′59'50	23°53'41
C	10322 Mar 25 18:27	0°B		retrograde	10323 Mar 14 23:03	16° Y ′28′20	
retrograde	10322 Mar 31 05:18	2° 8 02'25		asc. node	10323 Mar 18 19:09	15° Y 18'59	
asc. node	10322 Mar 31 21:56	2° 8 00'04		evening set	10323 Mar 20 05:11	14° Ƴ 16'18	
evening set	10322 Apr 04 23:35	0° 8 04'18		min. Earth dist.	10323 Mar 24 22:58	8° Y 46'17	0.68413 AU
	10322 Apr 05 01:37	30° Ŗ ♈		inferior conj	10323 Mar 25 16:08	7° Ƴ 47'52	2°02'55
inferior conj	10322 Apr 10 07:36	23° Y '41'28	2°36'38	minimum elong	10323 Mar 25 13:58	7° Y 55'16	2°02'13
minimum elong	10322 Apr 10 05:30	23° Y '48'46	2°35'59	morning rise	10323 Mar 30 22:47	1° Y 44'59	
min. Earth dist.	10322 Apr 10 02:30	23° Y ′59'12	0.68628 AU	direct	10323 Apr 04 00:26	0° Υ 11'21	
morning rise	10322 Apr 15 11:17	17° Y ′32'00		morning max el	10323 Apr 11 23:09	4° Υ 41'41	20°28'07
direct	10322 Apr 20 02:14	15° Ƴ 36′19		desc. node	10323 Apr 21 16:48	16° Ƴ 41'17	
morning max el	10322 Apr 29 03:40	20° Y ′52'55	21°46'22		10323 Apr 30 21:36	0° 8	
desc. node	10322 May 04 19:59	27° Y ′21′29		morning set	10323 May 10 18:27	15° 8 00'10	
	10322 May 06 21:32	0° 8		max. Earth dist.	10323 May 19 21:01	29° 8 21'47	1.43632 AU
	10322 May 27 12:39	$\Pi^{\circ}0$			10323 May 20 06:31	Π °0	
morning set	10322 May 31 13:04	6° Ⅲ 20′07				_	
max. Earth dist.	10322 Jun 06 13:22	16° Ⅱ 07'09	1.41753 AU	superior conj	10323 May 26 05:04	9° ∐ 42'47	
		_		minimum elong	10323 May 26 09:37	10° Ⅱ 01'40	2°07'31
superior conj	10322 Jun 14 04:43	29° Ⅱ 08'07			10323 Jun 07 01:54	0°95	
minimum elong	10322 Jun 14 11:06	29° Ⅱ 36'02	1°46'26	evening rise	10323 Jun 07 16:10	1°502'19	
	10322 Jun 14 16:34	0°©		asc. node	10323 Jun 14 17:33	13°5015'58	10004125
evening rise	10322 Jun 25 01:00	18°9542'13		evening max el	10323 Jun 24 17:46	27°529'23	18°04'35
asc. node	10322 Jun 27 20:33	23°951'49			10323 Jun 28 00:40	0°Ω 0°Ω50'37	
evening max el	10322 Jul 01 06:44 10322 Jul 11 04:48	0° Ω 14° Ω 20'30	18°11'01	retrograde evening set	10323 Jul 01 05:20 10323 Jul 03 20:58	0° Ω 16'12	
retrograde	10322 Jul 11 04.48 10322 Jul 18 04:51	$17^{\circ}\Omega 53'20$	18 11 01	evening set	10323 Jul 03 20:38 10323 Jul 04 10:49	30°RS	
evening set	10322 Jul 18 04:31 10322 Jul 20 12:42	$17^{\circ} \Omega 30'24$		inferior conj	10323 Jul	25°509'43	2°15'12
inferior conj	10322 Jul 20 12:42 10322 Jul 27 14:58	$17^{\circ} 03024$ $12^{\circ} \Omega 43'15$	1°13'08	minimum elong	10323 Jul 10 07:18	25°502'34	
minimum elong	10322 Jul 27 17:10	12°Ω38'23	1°12'01	min. Earth dist.	10323 Jul 13 07:27	22° © 07'07	0.61833 AU
min. Earth dist.	10322 Jul 30 23:00	9° Ω 47'05	0.59566 AU	morning rise	10323 Jul 16 20:58	19° © 05'20	0.01033710
desc. node	10322 Jul 31 19:15	9° Ω 05'34		desc. node	10323 Jul 18 16:24	17° © 59'06	
morning rise	10322 Aug 03 18:31	7° Ω 00'33		direct	10323 Jul 23 13:24	16°9544'20	
direct	10322 Aug 10 04:15	5° Ω 05'50		morning max el	10323 Aug 06 18:00	24°9546'00	27°57'03
morning max el	10322 Aug 24 12:43	12° Q 56′28	27°39'27	C	10323 Aug 11 12:23	$0^{\circ}\Omega$	
_	10322 Sep 07 01:33	0° m)			10323 Aug 31 11:42	0° m	
asc. node	10322 Sep 23 20:47	29° m 55'28		morning set	10323 Sep 09 09:08	17° m 04'44	
	10322 Sep 23 21:39	0∘ ⊽		asc. node	10323 Sep 10 17:35	19° m 52'25	
morning set	10322 Sep 25 07:50	2° ჲ 57'34		max. Earth dist.	10323 Sep 14 23:12	28° m 54'20	1.31881 AU
max. Earth dist.	10322 Oct 01 16:25	16° ≏ 45'14	1.31490 AU		10323 Sep 15 11:15	0∘ ⊽	
superior conj	10322 Oct 02 10:13	18° ≏ 24'05	1°16'16	superior conj	10323 Sep 16 20:04	2° ჲ 59'41	0°57'38
minimum elong	10322 Oct 02 08:02	18° ≏ 11'52	1°16'04	minimum elong	10323 Sep 16 17:54	2° ≏ 47'49	0°57'14
	10322 Oct 07 16:06	0° M		evening rise	10323 Sep 23 14:38	17° ≏ 50'28	
evening rise	10322 Oct 09 03:40	3°ML12′111			10323 Sep 29 12:22	0° M	
	10322 Oct 23 07:51	0° ∡ ¹		desc. node	10323 Oct 14 14:17	23°M59'28	
desc. node	10322 Oct 27 17:04	6° ∡ 137'00	24000110	evening max el	10323 Oct 19 01:05	28°M49'03	24°34'47
evening max el	10322 Nov 06 11:22	18° ₹ 13'26	26°02'19	, ,	10323 Oct 20 07:57	0° ⊼ ¹	
retrograde	10322 Nov 20 09:08	25° 🖈 16'21		retrograde	10323 Nov 01 19:34	5° × 743'41	
evening set	10322 Nov 26 17:59	23° х 40'07	0.50240 ATT	evening set	10323 Nov 07 02:56	4° × ⁷ 41'04	0.56467 411
min. Earth dist.	10322 Dec 01 00:07	21° × 705'06	0.58340 AU	min. Earth dist.	10323 Nov 12 12:16		0.56467 AU
inferior conj minimum elong	10322 Dec 04 02:39 10322 Dec 04 10:28	18° х 50′14 18° х 36′03	-4°47'36 4°45'17	inferior conj minimum elong	10323 Nov 15 01:18 10323 Nov 15 05:43	0° х 16'42 0° х 09'42	
morning rise	10322 Dec 04 10:28 10322 Dec 12 05:25	18° × '36'03	+ +J1/	minimum eiong	10323 Nov 15 05:43 10323 Nov 15 11:51	0° x ′09°42 30°₽M	J J+ 43
direct	10322 Dec 12 05:25 10322 Dec 14 10:24	14° × ' 24' 36' 14° × ' 08' 59		morning rise	10323 Nov 13 11:31 10323 Nov 23 10:42	26°M₁3'24	
asc. node	10322 Dec 14 10.24 10322 Dec 20 20:46	14 x · 08 39 16° x ¹ 33'54		direct	10323 Nov 25 10.42 10323 Nov 25 23:03	25°M56'15	
morning max el	10322 Dec 20 20:40 10322 Dec 22 18:29		18°35'59	ancet	10323 Nov 23 23:03 10323 Dec 05 01:17	25 II C 30 13	
	10022 000 22 10.27	10 6 1232	10 00 07		10020 000 00 01.17	· //	

morning max el	10323 Dec 05 15:29	0° ∡ ³32'53	19°32'27	morning rise	10324 Nov 02 15:26	7° ™ 07'27	
asc. node	10323 Dec 07 17:47	2° ∡ ¹45'27		direct	10324 Nov 05 17:25	6° M 45′16	
morning set	10323 Dec 22 23:19	28° ₹ ′29′02		morning max el	10324 Nov 16 23:13	12°M03'29	20°51'28
	10323 Dec 23 17:24	0°₹		asc. node	10324 Nov 23 14:45	20°M03'19	
					10324 Nov 29 14:55	0° ∡ ¹	
superior conj	10323 Dec 30 22:42	14° る 27'53	1°15'19	morning set	10324 Dec 06 07:14	13° ∡ 11'09	
minimum elong	10323 Dec 31 01:37	14° る 42'15	1°15'27				
max. Earth dist.	10324 Jan 06 06:51	26° る 32'02	1.37830 AU	superior conj	10324 Dec 13 16:45	28° ∡ ³33'58	1°30'31
	10324 Jan 08 04:32	0° ≈		minimum elong	10324 Dec 13 18:47	28° х 44'22	1°30'51
evening rise	10324 Jan 10 00:08	3° ≈ 14'19			10324 Dec 14 09:34	0°ರ	
desc. node	10324 Jan 10 13:02	4° ≈ 10'59		max. Earth dist.	10324 Dec 18 15:21	8° る 28'23	1.35769 AU
	10324 Jan 26 15:27	0° ∀		evening rise	10324 Dec 22 14:41	16° る 02'43	
evening max el	10324 Feb 14 12:18	23°) 48′51	25°10'44	desc. node	10324 Dec 27 10:00	24° る 42'10	
	10324 Feb 22 22:04	0 ° Υ			10324 Dec 30 12:19	0° ≈	
retrograde	10324 Feb 26 12:45	0° Ƴ 47′03			10325 Jan 20 03:42	0° ∀	
	10324 Feb 29 21:00	30° Ŗ ₩		evening max el	10325 Jan 27 01:44	7° ∺ 36′36	26°17'16
evening set	10324 Mar 03 07:01	28° ∺ 23′30		retrograde	10325 Feb 08 21:25	14° ¥ 52′22	
asc. node	10324 Mar 04 16:22	27° ∺ 04'50		evening set	10325 Feb 15 03:23	12°) €21'03	
min. Earth dist.	10324 Mar 07 17:21	23° ∺ 28′16	0.67779 AU	min. Earth dist.	10325 Feb 19 07:27	8° ∺ 00′18	0.66752 AU
inferior conj	10324 Mar 08 22:18	21° ∺ 53'52	1°20'03	asc. node	10325 Feb 19 13:36	7°) 41′42	
minimum elong	10324 Mar 08 20:33	21° ¥ 59'34	1°19'31	inferior conj	10325 Feb 21 00:08	5° ¥ 55'46	0°28'07
morning rise	10324 Mar 14 10:26	15° ¥ 58′54		minimum elong	10325 Feb 20 23:24	5° ¥ 58′00	0°28'03
direct	10324 Mar 17 23:46	14°) 46′15		morning rise	10325 Feb 26 20:14	0° ₩ 10'31	
morning max el	10324 Mar 25 02:28	18° ∺ 41'41	19°23'30		10325 Feb 27 03:50	30° ₹ ≈	
	10324 Apr 03 02:56	0° Y		direct	10325 Mar 01 22:36	29° ≈ 16′11	
greatest brilliancy	10324 Apr 06 20:39	5° Y 26'30	-0.7m		10325 Mar 04 19:17	0°)	
desc. node	10324 Apr 07 13:35	6° Ƴ 29'24		morning max el	10325 Mar 08 12:52	2° ∺ 49'10	18°34'45
morning set	10324 Apr 18 17:56	23° Y 30'38		desc. node	10325 Mar 25 10:23	26° ∺ 38′22	
	10324 Apr 22 22:40	9° 8			10325 Mar 27 13:41	0 ° Υ	
max. Earth dist.	10324 May 01 10:40	13° 8 17'04	1.44955 AU	morning set	10325 Mar 29 10:48	2° Y 57'37	
				max. Earth dist.	10325 Apr 14 04:42	27° Y ′39'15	1.45598 AU
superior conj	10324 May 05 05:29	19° 8 16'59					
minimum elong	10324 May 05 03:49	19° 8 10'23	2°12'49	superior conj	10325 Apr 14 13:36	28° Y 14′00	
	10324 May 11 21:07	0°II		minimum elong	10325 Apr 14 05:17	27° Y ′41'29	1°57'16
evening rise	10324 May 19 10:13	12° Ⅱ 26'13			10325 Apr 15 16:41	0°8	
	10324 May 30 03:05	0.20 0.20		evening rise	10325 Apr 30 04:16	22° 8 50'07	
asc. node	10324 May 31 14:37	2°5516'20	10016154	1 . 1111	10325 May 04 16:17	0°II	0.0
evening max el	10324 Jun 07 07:23	10°555'44	18°16'54	greatest brilliancy	10325 May 08 13:28	6°∏08'55 20°∏44'22	-0.8m
retrograde	10324 Jun 13 16:31 10324 Jun 16 15:57	14° © 19'29 13° © 31'30		asc. node	10325 May 18 11:43 10325 May 21 18:50	20 H 44 22 24° H 31'53	10047104
evening set inferior conj	10324 Jun 22 14:16	8°907'32	2052158	evening max el retrograde	10325 May 21 18:30 10325 May 28 10:22	28° I 11'11	16 4/04
minimum elong	10324 Jun 22 16:25		2°53'05	evening set	10325 May 28 10:22 10325 May 31 17:52	27° I I08'14	
min. Earth dist.	10324 Jun 25 01:21	5°9519'50	0.63953 AU	inferior conj	10325 Jun 06 07:58	21° II 28'15	3013145
morning rise	10324 Jun 28 15:32	1°951'38	0.03933 AU	minimum elong	10325 Jun 06 08:58	21° II 25'07	
morning risc	10324 Jul 01 15:52	30°RⅡ		min. Earth dist.	10325 Jun 08 04:01		0.65759 AU
desc. node	10324 Jul 04 13:30	29° Ⅱ 15'06		morning rise	10325 Jun 11 23:21	15° Ⅱ 08'05	0.03739 AO
direct	10324 Jul 05 07:54	29° Ⅱ 13'08		direct	10325 Jun 18 09:54	13 Ⅱ 08 03 12° Ⅱ 23'32	
uncet	10324 Jul 09 05:28	0°95		desc. node	10325 Jun 21 10:35	12° I I54'50	
morning max el	10324 Jul 19 03:18	7°9315'16	27°37'22	morning max el	10325 Jul 01 13:54	20° Ⅱ 12'19	26°46'13
morning max or	10324 Aug 05 14:35	0° Ω	27 37 22	morning max er	10325 Jul 09 23:21	0°95	20 10 13
	10324 Aug 22 17:05	0° m/y			10325 Jul 29 17:05	0° U	
morning set	10324 Aug 23 02:45	0° Mp 47'46		morning set	10325 Jul 25 17:05 10325 Aug 06 09:32	13° Ω 57'12	
asc. node	10324 Aug 27 14:25	9° Mp 56'18		max. Earth dist.	10325 Aug 10 13:40		1.34171 AU
max. Earth dist.	10324 Aug 27 23:21		1.32773 AU	asc. node	10325 Aug 14 11:16	0° m) 02'13	1.5 11 / 1 / 10
max. Darth dist.	1032111ug 27 23.21	10 110 13 03	1.52775110	use. Hode	10325 Aug 14 10:50	0° m)	
superior conj	10324 Aug 31 02:16	17° m 21'10	0°34'08			4	
minimum elong	10324 Aug 31 00:42	17° m) 12'48		superior conj	10325 Aug 15 02:28	1° m)21'10	0°06'16
-	10324 Sep 05 22:32	0∘ ⊽		minimum elong	10325 Aug 15 02:08	1° m) 19'29	
evening rise	10324 Sep 07 02:06	2° ₽ 27'42		behind sun begin	10325 Aug 14 20:45	0° m/51'28	
-	10324 Sep 22 02:01	0° M		behind sun end	10325 Aug 15 07:31	1° m) 47'33	
evening max el	10324 Sep 29 11:51	8°M58'28	22°54'45	evening rise	10325 Aug 22 12:05	16° m 57'12	
desc. node	10324 Sep 30 11:32	9°M54'06			10325 Aug 29 00:11	0∘ ⊽	
retrograde	10324 Oct 12 17:34	15°M34'12		evening max el	10325 Sep 11 04:42	19° ≙ 16'54	21°19'07
evening set	10324 Oct 16 13:43	15°ML02'02		desc. node	10325 Sep 17 08:48	23° ≏ 50'36	
min. Earth dist.	10324 Oct 23 20:34	11° M .43'12	0.55136 AU	retrograde	10325 Sep 23 05:58	25° ≏ 15'42	
inferior conj	10324 Oct 25 05:01	10°M56'36	-5°40'35	evening set	10325 Sep 25 18:50	25° ≙ 00'50	
minimum elong	10324 Oct 25 01:41	11°ML01'23	5°40'05	inferior conj	10325 Oct 04 21:46	21° ≏ 05'01	-4°49'08

minimum elong min. Earth dist.	10325 Oct 04 12:20 10325 Oct 05 04:10	21° £ 18'15 20° £ 56'02	4°46'48 0.54622 AU	inferior conj minimum elong	10326 Sep 14 17:33 10326 Sep 14 09:11		3°07'38
morning rise direct	10325 Oct 13 06:31 10325 Oct 17 02:09	17° £ 14'02 16° £ 42'33		min. Earth dist.	10326 Sep 16 13:38 10326 Sep 16 18:01	0° £ 06'30 30° ₽,™	0.55049 AU
morning max el	10325 Oct 29 18:08 10325 Nov 05 01:54	22° £ 45′05 0° M	22°29'45	morning rise direct	10326 Sep 22 23:14 10326 Sep 27 13:46	26° m 59'38 26° m 13'30	
asc. node	10325 Nov 10 11:42	8°M₁2'10			10326 Oct 07 17:18	0∘ 亚	
morning set	10325 Nov 20 18:02 10325 Nov 21 16:55	27°M58'48 0°⊀		morning max el asc. node	10326 Oct 11 06:01 10326 Oct 28 08:36	2° £ 56'52 26° £ 59'47	24°17'03
	10323 NOV 21 10.33	0 🗴		asc. node	10326 Oct 28 08:30 10326 Oct 29 23:01	20 = 3947 0° M	
superior conj	10325 Nov 27 18:55	13° ₹ '01'30	1°38'26	morning set	10326 Nov 05 05:50	12°M46'45	
minimum elong	10325 Nov 27 19:45	13° ∡ 05'55	1°38'52				
max. Earth dist.	10325 Dec 01 07:00	20° 🖈 22'09 29° 🖈 29'04	1.34029 AU	superior conj	10326 Nov 12 02:27	27°M42'29	1°39'45 1°40'08
evening rise	10325 Dec 05 19:59 10325 Dec 06 02:20	29° メ ・29'04		minimum elong	10326 Nov 12 02:06 10326 Nov 13 03:44	27°M40'34 0°⊀	1-40 08
desc. node	10325 Dec 14 07:02	15° ට 00'47		max. Earth dist.	10326 Nov 14 06:47	2° ∡ ¹26′08	1.32711 AU
	10325 Dec 23 15:14	0° ≈		evening rise	10326 Nov 19 12:28	13° ∡ ¹24'10	
evening max el	10326 Jan 09 15:18	21°≈14'51	27°05'55		10326 Nov 28 06:19	0°る	
retrograde evening set	10326 Jan 23 00:08 10326 Jan 29 16:18	28°≈36'56 26°≈03'00		desc. node	10326 Dec 01 04:06 10326 Dec 18 19:38	5° る 00'31	
min. Earth dist.	10326 Feb 02 14:59	20 ≈05 00 22°≈15'55	0.65355 AU	evening max el	10326 Dec 18 13:38 10326 Dec 23 03:27		27°29'30
inferior conj	10326 Feb 04 19:23	19° ≈ 48′26	-0°32'39	retrograde	10327 Jan 05 20:04	11° ≈ 51'34	
minimum elong	10326 Feb 04 20:20	19° ≈ 45'46	0°31'55	evening set	10327 Jan 12 19:16	9° ≈ 21'51	
asc. node	10326 Feb 06 10:47	17°≈59'55		min. Earth dist.	10327 Jan 16 13:45	6°≈06'00	0.63630 AU
morning rise direct	10326 Feb 11 01:45 10326 Feb 13 18:49	14°≈15'23 13°≈35'56		inferior conj minimum elong	10327 Jan 19 05:21 10327 Jan 19 08:36	3°≈24'32 3°≈16'15	
morning max el	10326 Feb 20 04:16	16° ≈ 58'01	18°02'49	minimum ciong	10327 Jan 22 20:56	30°Rる	1 37 37
C	10326 Mar 01 19:22	0°) €		asc. node	10327 Jan 24 07:58	28° る 57'33	
morning set	10326 Mar 10 08:38	13° ¥ 52'14		morning rise	10327 Jan 25 23:58	28° る 06'45	
desc. node	10326 Mar 12 07:11	17° 米 02'31 0° Ƴ		direct	10327 Jan 28 09:37	27° る 38'30 0°≈	
	10326 Mar 20 07:33	0-1		morning max el	10327 Feb 02 19:31 10327 Feb 03 21:49	0°≈ 1°≈00'04	17°48'04
superior conj	10326 Mar 24 22:25	7° Y ′20′20	-1°24'49	morning set	10327 Feb 20 09:29	26°≈05'01	1, 1001
minimum elong	10326 Mar 24 13:28				10327 Feb 22 16:19	0° ∀	
max. Earth dist.	10326 Mar 28 00:50	12° Y 13′06	1.45498 AU	desc. node	10327 Feb 27 03:58	7°) €36'32	
evening rise	10326 Apr 08 11:13 10326 Apr 10 01:32	0° と 2° と 27'58		superior conj	10327 Mar 05 00:45	17° ¥ 19'39	0°42'50
greatest brilliancy	10326 Apr 23 08:15	22° 8 43'53	-0.7m	minimum elong	10327 Mar 04 20:10	17° ₩ 00'55	0°42'00
8	10326 Apr 28 09:19	0°Щ		max. Earth dist.	10327 Mar 10 19:53		1.44666 AU
evening max el	10326 May 05 02:00	8° Ⅱ 13′02	19°33'49		10327 Mar 12 22:27	0° Ƴ	
asc. node	10326 May 05 08:52	8° Ⅱ 30'10		evening rise	10327 Mar 20 13:04	11° ℃ 49'46	
retrograde evening set	10326 May 12 07:54 10326 May 15 23:58	12° Ⅱ 19'48 11° Ⅱ 01'14		evening max el	10327 Apr 01 14:40 10327 Apr 18 03:34	0° と 21° と 55'25	20°35'13
inferior conj	10326 May 21 09:07	5° П 06'31	3°18'18	asc. node	10327 Apr 10 05:54 10327 Apr 22 06:03	25° 8 20'17	20 33 13
minimum elong	10326 May 21 08:57	5° Ⅱ 07'05	3°17'52	retrograde	10327 Apr 26 06:38	26° 8 39'22	
min. Earth dist.	10326 May 22 14:12		0.67151 AU	evening set	10327 Apr 30 08:06	25° 8 05'04	
morning rise	10326 May 25 11:43 10326 May 26 17:34	30°R と 28° と 46'32		inferior conj minimum elong	10327 May 05 15:03 10327 May 05 13:53	18° 8 57'22	3°10'24 3°09'56
direct	10326 May 20 17.34 10326 Jun 01 18:07	26° 8 06'49		min. Earth dist.	10327 May 06 06:04	18° 8 05'41	0.68084 AU
desc. node	10326 Jun 08 07:35	28° 8 33'06		morning rise	10327 May 10 19:27	12° 8 40'05	
	10326 Jun 10 06:02	$\Pi^{\circ}0$		direct	10327 May 16 07:31	10° 8 13'39	
morning max el	10326 Jun 14 00:03	3° Ⅱ 26'59	25°32'19	desc. node	10327 May 26 04:32	15° 8 40'13	2.400.512.2
morning set	10326 Jul 04 05:29 10326 Jul 20 01:37	0°ഇ 26° ഇ 23'15		morning max el	10327 May 27 09:37 10327 Jun 07 07:17	16° 8 51'31 0° Ⅱ	24°05'33
morning sec	10326 Jul 22 00:53	0°Ω			10327 Jun 27 05:44	0°92	
max. Earth dist.	10326 Jul 23 17:48	3° Ω 11′26	1.36031 AU	morning set	10327 Jul 01 22:09	7° © 53'43	
		_		max. Earth dist.	10327 Jul 05 15:29	14° © 25'16	1.38216 AU
superior conj minimum elong	10326 Jul 29 17:56 10326 Jul 29 19:29	14° Ω 52'37 15° Ω 00'23		superior conj	10327 Jul 12 21:15	27° © 47'07	0059!14
asc. node	10326 Aug 01 08:09	20°Ω06'33	0 23 10	minimum elong	10327 Jul 12 21:13 10327 Jul 13 01:06	27 94707 28°905'29	
	10326 Aug 06 04:05	0° m)		violig	10327 Jul 14 01:01	0° Ω	
evening rise	10326 Aug 06 18:27	1° Mp 13'24		asc. node	10327 Jul 19 05:04	10° Ω 05′27	
	10326 Aug 24 05:06	0° ∵	10050140	evening rise	10327 Jul 21 18:37	15° Ω 09'13	
evening max el retrograde	10326 Aug 24 10:06 10326 Sep 03 19:56	0° £ 12'32 5° £ 22'32	19°59'40	evening max el	10327 Jul 29 15:50 10327 Aug 07 04:47	0° т р 11° т р 54'34	19°01'03
desc. node	10326 Sep 03 19:30 10326 Sep 04 06:02	5° £ 22'03		retrograde	10327 Aug 07 04.47 10327 Aug 15 23:43	16°M)17'11	17 01 03
evening set	10326 Sep 05 17:48	5° £ 12'51		evening set	10327 Aug 17 20:53	16° Mp 05'56	

1 1	10227 4 22 02 15	1.40 m. 0.710.4		. ,	10220 1 1 20 01 22	270 0 4711 5	
desc. node	10327 Aug 22 03:15	14° Mp 27'24	1017111	evening set	10328 Jul 30 01:33	27° Ω 47'15	0005106
inferior conj	10327 Aug 26 05:17	11° m 50'50		inferior conj	10328 Aug 06 14:33	23° Ω 12'18	0°25'36
minimum elong	10327 Aug 26 02:00	11° m 56'32		minimum elong	10328 Aug 06 15:27	23° Ω 10′29	0°24'57
min. Earth dist.	10327 Aug 29 03:18	9° m 49'57	0.56348 AU	desc. node	10328 Aug 08 00:28	22° Ω 02'58	
morning rise	10327 Sep 03 03:59	7° Mp 01'17		min. Earth dist.	10328 Aug 09 23:01	20° Ω 30′00	0.58288 AU
direct	10327 Sep 08 13:43	5° m 52'35		morning rise	10328 Aug 14 01:49	17° Ω 46'30	
morning max el	10327 Sep 22 18:50	13° m 09'55	25°56'45	direct	10328 Aug 20 04:29	16° Ω 08'34	
	10327 Oct 05 23:55	0∘ ত		morning max el	10328 Sep 03 13:27		27°11'55
asc. node	10327 Oct 15 05:28	16° ≏ 16'12			10328 Sep 09 03:20	0° m)	
morning set	10327 Oct 20 16:59	27° ≏ 30'15			10328 Sep 28 02:53	0∘ ⊽	
	10327 Oct 21 20:50	0°M₊		asc. node	10328 Oct 01 02:17	5° ≙ 52'49	
				morning set	10328 Oct 04 01:44	12° ≙ 03'16	
superior conj	10327 Oct 27 13:05	12°M30'10	1°35'02				
minimum elong	10327 Oct 27 11:45	12°M22'47	1°35'14	superior conj	10328 Oct 11 00:49	27° ≏ 17'21	1°24'41
max. Earth dist.	10327 Oct 28 12:52	14°M41'45	1.31853 AU	minimum elong	10328 Oct 10 22:50	27° ≏ 06'14	1°24'37
evening rise	10327 Nov 03 13:09	27°M40'18		max. Earth dist.	10328 Oct 10 21:58	27° ≏ 01'26	1.31477 AU
	10327 Nov 04 16:06	0° ∡			10328 Oct 12 06:03	0°M₊	
desc. node	10327 Nov 18 01:11	24° ₹ 33'34		evening rise	10328 Oct 17 19:27	12°M09'28	
	10327 Nov 21 13:25	0°₹			10328 Oct 26 19:31	0° ⊼	
evening max el	10327 Dec 05 11:55		27°22'14	desc. node	10328 Nov 03 22:19	13° ≯ 28'15	
retrograde	10327 Dec 19 08:40	24° පි 27'21		evening max el	10328 Nov 16 14:10	29° ҂ 06′33	26°41'00
evening set	10327 Dec 26 09:14	22° る 10'43			10328 Nov 17 13:26	0°ಕ	
min. Earth dist.	10327 Dec 30 02:17	19° る 20'05	0.61648 AU	retrograde	10328 Nov 30 12:38	6° る 14'34	
inferior conj	10328 Jan 02 02:56	16° る 36'34	-2°55'31	evening set	10328 Dec 07 06:07	4° る 21'12	
minimum elong	10328 Jan 02 08:48	16° පි 23'21	2°52'52	min. Earth dist.	10328 Dec 11 04:14	1° る 44'41	0.59531 AU
morning rise	10328 Jan 09 10:54	11° පි 37'11			10328 Dec 13 09:43	30°R ✓	
asc. node	10328 Jan 11 05:05	11° る 17'21		inferior conj	10328 Dec 14 08:36	29° ҂ 14′28	-4°09'22
direct	10328 Jan 11 15:36	11° ට 16'31		minimum elong	10328 Dec 14 16:22	28° ₹ 59'09	4°06'35
morning max el	10328 Jan 18 14:21	14° ⋜ 47'13	17°51'13	morning rise	10328 Dec 22 05:19	24° ₹ 36'12	
	10328 Jan 29 02:16	0° ≈		direct	10328 Dec 24 08:36	24° ⋠ 19'36	
morning set	10328 Feb 03 07:06	9° ≈ 16'32		asc. node	10328 Dec 28 02:09	25° ∡ 12'57	
				morning max el	10329 Jan 01 02:15	28° ₹ 08'50	18°13'39
superior conj	10328 Feb 14 03:57	28° ≈ 30'18	-0°01'01		10329 Jan 02 19:40	8°0	
minimum elong	10328 Feb 14 03:53	28° ≈ 29'59	0°00'43	morning set	10329 Jan 16 19:31	23° る 08'40	
behind sun begin	10328 Feb 13 19:23	27° ≈ 53'33			10329 Jan 20 10:40	0°≈	
behind sun end	10328 Feb 14 12:23	29° ≈ 06′21					
desc. node	10328 Feb 14 00:47	28° ≈ 16'42		superior conj	10329 Jan 26 06:39	10° ≈ 46'49	0°34'59
	10328 Feb 15 00:57	0°) €		minimum elong	10329 Jan 26 09:07	10° ≈ 58′00	0°34'59
max. Earth dist.	10328 Feb 21 11:00	10°) 41′49	1.43203 AU	desc. node	10329 Jan 30 21:36	18° ≈ 59'06	
evening rise	10328 Feb 28 06:13	21°) 33′16		max. Earth dist.	10329 Feb 02 21:09	24° ≈ 06′10	1.41272 AU
	10328 Mar 04 17:43	$0^{\circ}\mathbf{\Upsilon}$			10329 Feb 06 09:57	0° ∀	
	10328 Mar 26 00:00	9° 8		evening rise	10329 Feb 07 16:41	2°) €05'39	
evening max el	10328 Mar 30 23:38	5° 8 38'36	21°48'03		10329 Feb 26 02:46	0 ° Υ	
asc. node	10328 Apr 08 03:14	10° 8 59'27		evening max el	10329 Mar 13 15:38	19° Ƴ 24'21	23°07'31
retrograde	10328 Apr 09 04:41	11° 8 04'59		retrograde	10329 Mar 24 00:23	25° Ƴ 32'02	
evening set	10328 Apr 13 16:28	9° 8 15'23		asc. node	10329 Mar 26 00:26	25° Ƴ 12'40	
inferior conj	10328 Apr 18 23:31	2° 8 57'02	2°51'47	evening set	10329 Mar 28 23:31	23° Y 27'59	
minimum elong	10328 Apr 18 21:40	3° 8 03'32	2°51'13	inferior conj	10329 Apr 03 08:35	17° Ƴ 02'11	2°23'29
min. Earth dist.	10328 Apr 19 01:32	2° 8 50'00	0.68558 AU	minimum elong	10329 Apr 03 06:24	17° Ƴ 09'45	2°22'48
	10328 Apr 21 03:34	30° Ŗ ♈		min. Earth dist.	10329 Apr 02 22:22	17° Ƴ 37'32	0.68587 AU
morning rise	10328 Apr 24 02:41	26° Ƴ 44'10		morning rise	10329 Apr 08 13:12	10° Ƴ 55'05	
direct	10328 Apr 29 01:19	24° Ƴ 36′25		direct	10329 Apr 12 22:22	9° Ƴ 08'43	
	10328 May 08 11:01	8°		morning max el	10329 Apr 21 11:50	14° Y 04'56	21°11'31
morning max el	10328 May 08 20:28	0° 8 23'28	22°35'47	desc. node	10329 Apr 28 22:18	22° Y 51'16	
desc. node	10328 May 12 01:27	3° 8 52'12			10329 May 04 03:52	8° 0	
	10328 May 31 03:02	$\Pi^{\circ}0$		morning set	10329 May 22 11:35	27° 8 27'18	
morning set	10328 Jun 11 18:05	18° Ⅱ 16′06			10329 May 24 02:17	$\Pi^{\circ}0$	
max. Earth dist.	10328 Jun 16 13:00	26° Ⅱ 15'07	1.40501 AU	max. Earth dist.	10329 May 29 16:04	8° Ⅱ 58'13	1.42606 AU
	10328 Jun 18 17:32	0ංම			·		
				superior conj	10329 Jun 05 22:23	21° II 06'28	-1°56'51
superior conj	10328 Jun 24 08:14	9° 9 54'54	-1°30'18	minimum elong	10329 Jun 06 04:29	21° Ⅲ 32'35	1°56'50
minimum elong	10328 Jun 24 14:08	10° © 21'31	1°30'01	-	10329 Jun 11 01:18	0ංම	
evening rise	10328 Jul 04 09:20	28°936'06		evening rise	10329 Jun 17 10:28	11°523'58	
asc. node	10328 Jul 05 01:59	29° © 54'41		asc. node	10329 Jun 21 22:58	19° 5 29'52	
	10328 Jul 05 03:07	$0^{\circ}\Omega$			10329 Jun 28 05:39	$0^{\circ}\Omega$	
evening max el	10328 Jul 20 09:44	24° Ω 18'11	18°23'29	evening max el	10329 Jul 03 20:59	7° Ω 14'15	18°06'01
retrograde	10328 Jul 27 22:15	28° Ω 04'45		retrograde	10329 Jul 10 14:20	10° Ω 40′02	

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evening set	10329 Jul 13 01:33	10° Ω 12'31		retrograde	10330 Jun 23 19:52	23°952'07	
inferior conj	10329 Jul 19 20:36	5° Ω 17'15	1°42'33	evening set	10330 Jun 26 14:57	23° © 11'59	
minimum elong	10329 Jul 19 23:16	5° Ω 10'58	1°41'18	inferior conj	10330 Jul 02 19:40	17° © 57'46	2°34'14
min. Earth dist.	10329 Jul 23 02:22	2° Ω 15'19	0.60536 AU	minimum elong	10330 Jul 02 22:18	17° © 50'43	2°33'08
desc. node	10329 Jul 25 21:39	29° © 58'50		min. Earth dist.	10330 Jul 05 14:37	14° © 59'27	0.62773 AU
	10329 Jul 25 21:00	30° ₹ 🥯		morning rise	10330 Jul 09 03:50	11° © 47'44	
morning rise	10329 Jul 26 18:11	29° 5 24'09		desc. node	10330 Jul 12 18:49	9° 5 349'16	
direct	10329 Aug 02 07:52	27° © 17'05		direct	10330 Jul 15 21:09	9° 5 018'06	
	10329 Aug 10 07:02	$0^{\circ}\Omega$		morning max el	10330 Jul 29 22:09	17° © 20'25	27°52'54
morning max el	10329 Aug 16 14:59	5° Ω 13'39	27°51'36	Č	10330 Aug 09 10:51	$0^{\circ}\Omega$	
	10329 Sep 04 02:47	0° m)	_,,		10330 Aug 27 21:45	0°m⊅	
asc. node	10329 Sep 07 02:17 10329 Sep 17 23:07	25° Mp 43'57		morning set	10330 Sep 02 04:38	10° m) 18'35	
	10329 Sep 17 25:07 10329 Sep 18 06:20	26° M) 21'20		asc. node	10330 Sep 02 04:38	15° Mp 44'10	
morning set	•	-			•		1 22205 ATT
F 4 F 4	10329 Sep 19 23:55	0° ™	1 21505 411	max. Earth dist.	10330 Sep 07 11:05	21° Mp 18'35	1.32205 AU
max. Earth dist.	10329 Sep 24 06:38	9° ≏ 17'09	1.31595 AU		10220 0 00 20 27	2 60 m 20100	0040114
				superior conj	10330 Sep 09 20:27	26° m/29'00	0°48'14
superior conj	10329 Sep 25 11:54	11° ≏ 58'53	1°08'59	minimum elong	10330 Sep 09 18:28	26° Mp 18'13	0°47'48
minimum elong	10329 Sep 25 09:40	11° ≏ 46′28	1°08'42		10330 Sep 11 11:02	0∘ ರ	
evening rise	10329 Oct 02 05:18	26° ≏ 46'13		evening rise	10330 Sep 16 16:43	11° ≏ 24'45	
	10329 Oct 03 17:43	0° M .			10330 Sep 26 01:23	0° M	
	10329 Oct 20 17:08	0° ≯ ¹		desc. node	10330 Oct 08 16:44	18°M18'06	
desc. node	10329 Oct 21 19:30	1° ∡ ¹29'49		evening max el	10330 Oct 10 20:13	20°M30'37	23°52'43
evening max el	10329 Oct 29 08:31	10° ₹ 09'40	25°27'45	retrograde	10330 Oct 24 10:28	27° M 18'15	
retrograde	10329 Nov 12 05:51	17° ∡ 09'18		evening set	10330 Oct 29 03:40	26°M29'39	
evening set	10329 Nov 18 05:09	15° ∡ 147'29		min. Earth dist.	10330 Nov 04 06:38	23°M30'51	0.55818 AU
min. Earth dist.	10329 Nov 22 20:47	13° х 1725	0.57495 AU	inferior conj	10330 Nov 06 09:12	22°MJ14'47	
inferior conj	10329 Nov 25 19:06	11° × ⁷ 09'01		minimum elong	10330 Nov 06 10:39	22°M12'35	
-							3 43 29
minimum elong	10329 Nov 26 02:06	10° ₹ 57'02	5°09'54	morning rise	10330 Nov 14 19:34	18°M 18'51	
morning rise	10329 Dec 04 01:21	6° ≯ 53'04		direct	10330 Nov 17 13:19	17°M59'52	
direct	10329 Dec 06 08:36	6° ∡ ³37′03		morning max el	10330 Nov 27 21:06	22°M53'11	20°03'27
asc. node	10329 Dec 14 23:12	10° ≯ 38'41		asc. node	10330 Dec 01 20:13	27°M20'15	
morning max el	10329 Dec 15 05:41	10° ₹ 54'04	18°57'12		10330 Dec 03 18:49	0° ⊼	
	10329 Dec 27 21:41	0°₹		morning set	10330 Dec 15 23:24	22° ҂ 04'11	
morning set	10329 Dec 31 18:05	7° る 27'48			10330 Dec 19 20:22	0° ප	
morning set	10329 Dec 31 18:05	7° る 27'48			10330 Dec 19 20:22	0°ප	
morning set superior conj	10329 Dec 31 18:05 10330 Jan 09 04:18	7°පි27'48 23°පි56'08	1°02'58	superior conj	10330 Dec 19 20:22 10330 Dec 23 16:08	0°る 7°る45'13	1°22'42
superior conj			1°02'58 1°03'00	superior conj	10330 Dec 23 16:08		1°22'42 1°22'55
C	10330 Jan 09 04:18 10330 Jan 09 07:25	23°ප්56'08 24°ප්11'04		minimum elong	10330 Dec 23 16:08 10330 Dec 23 18:44	7°る45'13 7°る58'17	1°22'55
superior conj minimum elong	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40	23°♂56'08 24°♂11'04 0°≈	1°03'00	minimum elong max. Earth dist.	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47	7°る45'13 7°る58'17 19°る00'17	
superior conj minimum elong max. Earth dist.	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59		minimum elong	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04	7°る45'13 7°る58'17 19°る00'17 25°る57'00	1°22'55
superior conj minimum elong max. Earth dist. desc. node	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11	1°03'00	minimum elong max. Earth dist. evening rise	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈	1°22'55
superior conj minimum elong max. Earth dist.	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56	1°03'00	minimum elong max. Earth dist.	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21	1°22'55
superior conj minimum elong max. Earth dist. desc. node	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升	1°03'00	minimum elong max. Earth dist. evening rise desc. node	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°米	1°22'55 1.36922 AU
superior conj minimum elong max. Earth dist. desc. node evening rise	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°Ŷ	1°03'00 1.39097 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21 0°升 17°升03'28	1°22'55 1.36922 AU
superior conj minimum elong max. Earth dist. desc. node evening rise	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°¥ 0°Y 3°Y13'25	1°03'00 1.39097 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°升 17°升03'28 24°升09'51	1°22'55 1.36922 AU
superior conj minimum elong max. Earth dist. desc. node evening rise	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°↑ 3°↑13'25 9°↑55'25	1°03'00 1.39097 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°米 17°米03'28 24°米09'51 21°米42'28	1°22'55 1.36922 AU
superior conj minimum elong max. Earth dist. desc. node evening rise	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°¥ 0°Y 3°Y13'25 9°Y55'25 7°Y50'56	1°03'00 1.39097 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°升 17°升03'28 24°升09'51	1°22'55 1.36922 AU 25°40'47
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°↑ 3°↑13'25 9°↑55'25	1°03'00 1.39097 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°米 17°米03'28 24°米09'51 21°米42'28	1°22'55 1.36922 AU
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°¥ 0°Y 3°Y13'25 9°Y55'25 7°Y50'56	1°03'00 1.39097 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21 0° 光 17° 光03'28 24° 光09'51 21° 光42'28 19° 光03'27	1°22'55 1.36922 AU 25°40'47
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°भ 0°° 3°°¥13'25 9°°¥55'25 7°°¥50'56 7°°¥38'24	1°03'00 1.39097 AU 24°27'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21 0° 升 17°升03'28 24°升09'51 21°升42'28 19°升03'27 17°升03'27	1°22'55 1.36922 AU 25°40'47 0.67394 AU
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 17 18:15	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°भ 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 20:57	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21 0° ¥ 17° ¥03'28 24° ¥09'51 21° ¥42'28 19° ¥03'27 17° ¥02'10 15° ¥14'16	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 17 18:15 10330 Mar 18 16:22 10330 Mar 18 14:18	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°¥ 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 20:57 10331 Mar 02 19:33 10331 Mar 08 12:11	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0° ₩ 17° ₩03'28 24° ₩09'51 21° ₩42'28 19° ₩03'27 17° ₩02'10 15° ₩14'16 15° ₩18'42	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 17 18:15 10330 Mar 18 16:22 10330 Mar 18 14:18 10330 Mar 19 13:06	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°¥ 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R¥	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 20:57 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°米 17°米03'28 24°米09'51 21°米42'28 19°米03'27 17°米02'10 15°米14'16 15°米18'42 9°米23'18 8°米18'43	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 14 18:15 10330 Mar 18 16:22 10330 Mar 18 14:18 10330 Mar 19 13:06 10330 Mar 24 01:01	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R升 25°升09'11	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 20:57 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46 10331 Mar 11 10:04	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°米 17°米03'28 24°米09'51 21°米42'28 19°米03'27 17°米02'10 15°米14'16 15°米18'42 9°米23'18 8°米18'43 12°米02'38	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 14 18:15 10330 Mar 18 16:22 10330 Mar 18 16:22 10330 Mar 19 13:06 10330 Mar 24 01:01 10330 Mar 27 21:24	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R升 25°升09'11 23°升44'29	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53 1°45'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46 10331 Mar 18 17:04 10331 Apr 01 02:29	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21 0° 光 17° 光03'28 24° 光09'51 21° 光42'28 19° 光03'27 17° 光02'10 15° 光14'16 15° 光18'42 9° 光23'18 8° 光18'43 12° 光02'38 0° ℃	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48 19°00'49
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 14 18:15 10330 Mar 18 16:22 10330 Mar 18 16:22 10330 Mar 19 13:06 10330 Mar 24 01:01 10330 Mar 27 21:24 10330 Apr 04 10:30	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°¥ 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R¥ 25°¥09'11 23°¥44'29 27°¥58'16	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53 1°45'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 19:33 10331 Mar 02 19:33 10331 Mar 02 19:33 10331 Mar 11 20:46 10331 Mar 18 17:04 10331 Apr 01 02:29 10331 Apr 01 05:53	7°云45'13 7°云58'17 19°云00'17 25°云57'00 0°≈ 0°≈16'21 0°光 17°光03'28 24°光09'51 21°光42'28 19°光03'27 17°光02'10 15°光14'16 15°光18'42 9°光23'18 8°光18'43 12°光02'38 0°Ƴ 0°Ƴ12'53	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 17 18:15 10330 Mar 18 16:22 10330 Mar 18 14:18 10330 Mar 19 13:06 10330 Mar 27 21:24 10330 Apr 04 10:30 10330 Apr 06 08:30	23°♂56'08 24°♂11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R₩ 25°₩09'11 23°₩44'29 27°₩58'16 0°Y	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53 1°45'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	10330 Dec 23 16:08 10330 Dec 23 18:44 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 19 03:57 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 20:57 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46 10331 Mar 18 17:04 10331 Apr 01 02:29 10331 Apr 01 05:53 10331 Apr 01 05:53	7°♂45'13 7°♂58'17 19°♂00'17 25°♂57'00 0°≈ 0°≈16'21 0° ₭ 17° ₭03'28 24° ₭09'51 21° ₭42'28 19° ₭03'27 17° ₭02'10 15° ₭14'16 15° ₭18'42 9° ₭23'18 8° ₭18'43 12° ₭02'38 0° ሦ 0° ሦ12'53 2° ሦ22'25	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48 19°00'49
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superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 18 16:22 10330 Mar 18 16:22 10330 Mar 19 13:06 10330 Mar 24 01:01 10330 Mar 27 21:24 10330 Mar 27 21:24 10330 Apr 06 08:30 10330 Apr 06 08:30 10330 Apr 07 10:30 10330 Mar 17 12:18 10330 May 17 12:18 10330 May 17 12:18	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R升 25°升09'11 23°升44'29 27°升58'16 0°Y 12°Y24'17 0°8 5°854'41 22°832'43 0°Ⅱ 1°Ⅲ14'37 1°Ⅲ24'19	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53 1°45'13 19°58'43 1.44278 AU -2°11'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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 evening rise	10330 Dec 23 16:08 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 19:33 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46 10331 Mar 12 02:46 10331 Apr 01 05:53 10331 Apr 01 05:53 10331 Apr 01 05:53 10331 Apr 20 11:51 10331 Apr 20 11:51 10331 Apr 27 04:15 10331 Apr 27 04:15 10331 Apr 26 23:21 10331 May 09 09:19 10331 May 09 09:19 10331 May 12 01:12 10331 May 26 17:04	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°光 17°米03'28 24°米09'51 21°米42'28 19°米03'27 17°米02'10 15°米14'16 15°米18'42 9°米23'18 8°米18'43 12°米02'38 0°Y 0°Y12'53 2°Y22'25 14°Y43'32 0°8 6°844'07 10°828'42 10°809'27 0°用 4°用19'43	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48 19°00'49 -0.8m
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 18 16:22 10330 Mar 18 16:22 10330 Mar 19 13:06 10330 Mar 24 01:01 10330 Mar 27 21:24 10330 Mar 27 21:24 10330 Apr 06 08:30 10330 Apr 06 08:30 10330 Apr 15 19:07 10330 Apr 27 14:56 10330 May 17 12:18 10330 May 17 12:18 10330 May 17 12:18 10330 May 30 17:10 10330 May 30 17:10 10330 May 30 17:10	23° る56'08 24° る11'04 0° ≈ 6° ≈ 49'59 9° ≈ 40'11 13° ≈ 34'56 0° 升 0° Y 3° Y 13'25 9° Y 55'25 7° Y 50'56 7° Y 38'24 2° Y 23'06 1° Y 09'02 1° Y 15'56 30° R 升 25° 升 09'11 23° 升 44'29 27° 升 58'16 0° Y 12° Y 24'17 0° と 5° と 54'41 22° と 32'43 0° Ⅱ 1° Ⅱ 14'37 1° Ⅲ 24'19 23° Ⅲ 20'59 0° ©	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53 1°45'13 19°58'43 1.44278 AU -2°11'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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 evening rise asc. node	10330 Dec 23 16:08 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 19:33 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46 10331 Mar 11 20:46 10331 Mar 01 05:53 10331 Apr 01 05:53 10331 Apr 01 05:53 10331 Apr 02 15:56 10331 Apr 20 11:51 10331 Apr 20 11:51 10331 Apr 20 11:51 10331 Apr 27 04:15 10331 Apr 26 23:21 10331 May 09 09:19 10331 May 09 09:19 10331 May 09 09:19 10331 May 02 17:04 10331 May 02 17:04 10331 May 02 17:04	7°る45'13 7°る58'17 19°る00'17 25°る57'00 0°≈ 0°≈16'21 0°光 17°米03'28 24°米09'51 21°米42'28 19°米03'27 17°米02'10 15°米14'16 15°米18'42 9°米23'18 8°米18'43 12°米02'38 0°Υ 0°Υ12'53 2°Υ22'25 14°Υ43'32 0°४ 6°844'07 10°828'42 10°809'27 0°Ⅲ 4°Ⅲ19'43 27°Ⅲ32'25 0°\$	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48 19°00'49 -0.8m 1.45327 AU -2°08'42 2°08'49
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10330 Jan 09 04:18 10330 Jan 09 07:25 10330 Jan 12 09:40 10330 Jan 16 03:56 10330 Jan 17 18:28 10330 Jan 20 00:42 10330 Jan 30 03:05 10330 Feb 21 04:10 10330 Feb 24 05:33 10330 Mar 07 16:28 10330 Mar 12 21:40 10330 Mar 13 03:42 10330 Mar 18 16:22 10330 Mar 18 16:22 10330 Mar 19 13:06 10330 Mar 24 01:01 10330 Mar 27 21:24 10330 Mar 27 21:24 10330 Apr 06 08:30 10330 Apr 06 08:30 10330 Apr 06 08:30 10330 Apr 27 14:56 10330 May 17 12:18 10330 May 17 12:18 10330 May 17 12:18	23°る56'08 24°る11'04 0°≈ 6°≈49'59 9°≈40'11 13°≈34'56 0°升 0°Y 3°Y13'25 9°Y55'25 7°Y50'56 7°Y38'24 2°Y23'06 1°Y09'02 1°Y15'56 30°R升 25°升09'11 23°升44'29 27°升58'16 0°Y 12°Y24'17 0°8 5°854'41 22°832'43 0°Ⅱ 1°Ⅲ14'37 1°Ⅲ24'19 23°Ⅲ20'59	1°03'00 1.39097 AU 24°27'24 0.68194 AU 1°45'53 1°45'13 19°58'43 1.44278 AU -2°11'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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 evening rise	10330 Dec 23 16:08 10330 Dec 29 10:47 10331 Jan 02 05:04 10331 Jan 04 11:40 10331 Jan 04 15:24 10331 Jan 23 15:38 10331 Feb 06 18:56 10331 Feb 25 03:26 10331 Feb 27 18:54 10331 Mar 01 11:01 10331 Mar 02 19:33 10331 Mar 02 19:33 10331 Mar 08 12:11 10331 Mar 11 20:46 10331 Mar 12 02:46 10331 Apr 01 05:53 10331 Apr 01 05:53 10331 Apr 01 05:53 10331 Apr 20 11:51 10331 Apr 20 11:51 10331 Apr 27 04:15 10331 Apr 27 04:15 10331 Apr 27 04:15 10331 Apr 26 23:21 10331 May 09 09:19 10331 May 09 09:19 10331 May 12 01:12 10331 May 26 17:04	7°♂45'13 7°♂58'17 19°♂00'17 25°♂57'00 0°≈ 0°≈16'21 0°ℋ 17°ℋ03'28 24°ℋ09'51 21°ℋ42'28 19°ℋ03'27 17°ℋ02'10 15°ℋ14'16 15°ℋ18'42 9°ℋ23'18 8°ℋ18'43 12°ℋ02'38 0°Ƴ 0°Ƴ12'53 2°Ƴ22'25 14°Ƴ43'32 0°ੴ 6°♂44'07 10°♂28'42 10°♂09'27 0°Ⅲ 4°Ⅲ19'43 27°Ⅲ32'25	1°22'55 1.36922 AU 25°40'47 0.67394 AU 0°59'10 0°58'48 19°00'49 -0.8m

evening set	10331 Jun 10 13:17	6°\$37'27			10332 Apr 12 05:16	0° ႘	
inferior conj	10331 Jun 16 07:39	1°906'09	3°04'24	evening rise	10332 Apr 21 09:37	14° 8 21'36	
minimum elong	10331 Jun 16 09:21	1°901'08	3°03'41		10332 May 01 10:11	0°II	
	10331 Jun 17 05:50	30°R Ⅱ		greatest brilliancy	10332 May 02 00:47	0° I I56'01	-0.8m
min. Earth dist.	10331 Jun 18 12:17	28° Ⅱ 30'24	0.64774 AU	asc. node	10332 May 12 14:11	15° Ⅱ 44'02	
morning rise	10331 Jun 22 04:23	24° ∐ 47'42		evening max el	10332 May 14 09:26	17° Ⅱ 41'31	19°04'55
direct	10331 Jun 28 18:45	22° II 05'36		retrograde	10332 May 21 06:19	21° Ⅲ 31'34	
desc. node	10331 Jun 29 15:57	22° Ⅱ 08'14		evening set	10332 May 24 17:17	20° Ⅲ 22'07	
	10331 Jul 12 07:09	0ಂತಿ		inferior conj	10332 May 30 04:54	14° Ⅱ 35'30	3°17'20
morning max el	10331 Jul 12 08:28	0° ട്ട 03'19	27°18'58	minimum elong	10332 May 30 05:24	14° Ⅲ 33'55	3°16'51
	10331 Aug 03 10:30	$0^{\circ}\Omega$		min. Earth dist.	10332 May 31 18:30	12° Ⅲ 35′07	0.66402 AU
morning set	10331 Aug 16 18:03	23° Q 48'08		morning rise	10332 Jun 04 16:58	8° Ⅱ 14'42	
	10331 Aug 19 20:53	0° m)		direct	10332 Jun 10 23:31	5° Ⅱ 31′05	
max. Earth dist.	10331 Aug 21 07:35	2° m 57'10	1.33313 AU	desc. node	10332 Jun 15 13:00	6° Ⅱ 42'09	
asc. node	10331 Aug 22 16:47	5° m 49'08		morning max el	10332 Jun 23 19:17	13° Ⅱ 10′18	26°17'00
					10332 Jul 07 09:16	0°€	
superior conj	10331 Aug 25 00:22	10°Mp41'44	0°22'47		10332 Jul 26 03:18	$0^{\circ}\Omega$	
minimum elong	10331 Aug 24 23:15	10°M 35'49	0°22'22	morning set	10332 Jul 29 19:13	6° Ω 41'20	
evening rise	10331 Sep 01 03:49	25° m 59'18		max. Earth dist.	10332 Aug 02 17:34	14° Ω 11'36	1.34909 AU
	10331 Sep 03 01:41	0∘ ⊽					
	10331 Sep 21 16:56	0° M.		superior conj	10332 Aug 07 21:15	24° Ω 30'49	-0°06'43
evening max el	10331 Sep 22 08:14	0°M38′20	22°12'32	minimum elong	10332 Aug 07 21:39	24° Ω 32'53	0°06'58
desc. node	10331 Sep 25 13:59	3°M26'06		behind sun begin	10332 Aug 07 16:14	24° Ω 05′10	
retrograde	10331 Oct 05 03:35	7° M ₀01'02		behind sun end	10332 Aug 08 03:04	25° Ω 00′38	
evening set	10331 Oct 08 09:10	6° M 37′50		asc. node	10332 Aug 08 13:38	25° Ω 55'01	
min. Earth dist.	10331 Oct 16 13:55	3°M01'15			10332 Aug 10 12:56	0° m)	
inferior conj	10331 Oct 17 06:44	2°M37'37		evening rise	10332 Aug 15 12:34	10° m 24'19	
minimum elong	10331 Oct 17 00:07	2°M46'56	5°24'40		10332 Aug 25 19:41	0∘ ত	
	10331 Oct 22 08:22	30° ŖΩ		evening max el	10332 Sep 03 05:55	11° ≏ 10'30	20°42'54
morning rise	10331 Oct 25 16:38	28° ♀ 50'35		desc. node	10332 Sep 11 11:15	16° ≏ 23'57	
direct	10331 Oct 29 01:49	28° ♀ 25'07		retrograde	10332 Sep 14 15:32	16° ≏ 49'48	
	10331 Nov 04 09:19	0°M,		evening set	10332 Sep 16 19:33	16° ≏ 38'24	
morning max el	10331 Nov 09 23:01	4°M01'38	21°31'33	inferior conj	10332 Sep 25 23:03	12° - 42'24	
asc. node	10331 Nov 18 17:11	15°M01'18		minimum elong	10332 Sep 25 13:13	12° ≏ 56'30	4°08'35
	10331 Nov 27 00:54	0° ∡ ¹		min. Earth dist.	10332 Sep 26 22:20	12° ₾ 08'59	0.54681 AU
morning set	10331 Nov 30 08:47	6° ∡ ¹49'20		morning rise	10332 Oct 04 06:44	8° ≏ 44'01	
	10221 D 07 14 01	220 701121	1024144	direct	10332 Oct 08 09:59	8° ≏ 07'18	22015112
superior conj	10331 Dec 07 14:01	22° × ⁷ 01'31	1°34'44	morning max el	10332 Oct 21 14:16	14° £ 28'32	23°15'13
minimum elong	10331 Dec 07 15:33		1°35'07	asc. node	10332 Nov 02 13:07	0°M 3°M 3°104	
max. Earth dist.	10331 Dec 11 11:23 10331 Dec 11 21:59	0°궁 0°궁53'11	1.34973 AU	morning set	10332 Nov 04 14:07 10332 Nov 13 20:12	3°M28'04 21°M37'40	
evening rise	10331 Dec 11 21:39	0 3 3311 9° る 02'11	1.349/3 AU	morning set	10332 Nov 13 20:12 10332 Nov 17 17:33	21 1163 / 40 0° ₹ ¹	
desc. node	10331 Dec 10 02.17 10331 Dec 22 12:21	9 30211 20° る 42'31			10332 NOV 17 17.33	0 X	
desc. node	10331 Dec 22 12:21 10331 Dec 28 01:39	20° ≈		superior conj	10332 Nov 20 18:47	6° ∡ ³35'56	1°39'46
	10331 Dec 28 01:39	0° ∺		minimum elong	10332 Nov 20 19:06	6° ∡ 33'38'	1°40'11
evening max el	10332 Jan 20 08:18	0° ¥ 47'29	26°40'32	max. Earth dist.	10332 Nov 23 16:52	12° × ⁷ 49'03	1.33407 AU
retrograde	10332 Feb 02 10:10	8°¥07'26	20 1032	evening rise	10332 Nov 28 12:44	22° × ⁷ 41'46	1.55 107 110
evening set	10332 Feb 08 20:53	5° ¥ 33'55		evening rise	10332 Dec 02 07:30	0°ਰ	
min. Earth dist.	10332 Feb 12 22:25	1° ∺ 28′00	0.66201 AU	desc. node	10332 Dec 02 07:30	10°る53'38	
	10332 Feb 14 04:15	30°R≈			10332 Dec 20 18:56	0° ≈	
inferior conj	10332 Feb 14 20:14	29° ≈ 12'26	0°03'24	evening max el	10333 Jan 01 21:16	14° ≈ 16'48	27°19'22
minimum elong	10332 Feb 14 20:08	29° ≈ 12'45	0°03'38	retrograde	10333 Jan 15 10:17	21° ≈ 39'59	
transit middle	10332 Feb 14 20:08	29° ≈ 12'45	0°03'38	evening set	10333 Jan 22 05:53	19° ≈ 06'40	
transit begin	10332 Feb 14 17:17	29° ≈ 21'12		min. Earth dist.	10333 Jan 26 02:29	15° ≈ 33'20	0.64653 AU
transit end	10332 Feb 14 22:59	29° ≈ 04'18		inferior conj	10333 Jan 28 11:51	12° ≈ 58'20	-1°00'59
asc. node	10332 Feb 14 16:07	29° ≈ 24'41		minimum elong	10333 Jan 28 13:42	12° ≈ 53'18	0°59'49
morning rise	10332 Feb 20 20:28	23° ≈ 32'23		asc. node	10333 Jan 31 13:19	9° ≈ 52'07	
direct	10332 Feb 23 18:39	22° ≈ 44'54		morning rise	10333 Feb 03 23:14	7° ≈ 31'31	
morning max el	10332 Mar 01 05:58	26° ≈ 11'46	18°19'11	direct	10333 Feb 06 12:46	6° ≈ 57'28	
	10332 Mar 04 14:09	0° ∀		morning max el	10333 Feb 12 22:38	10° ≈ 18′24	17°54'24
desc. node	10332 Mar 19 12:43	22°) 38′12			10333 Feb 26 12:37	0° ∀	
morning set	10332 Mar 20 20:51	24°) (46′42		morning set	10333 Mar 02 06:43	6° ¥ 15'43	
	10332 Mar 24 03:22	0° Y		desc. node	10333 Mar 06 09:28	13° ¥ 06'30	
superior conj	10332 Apr 05 10:17	19° Y 23′20		superior conj	10333 Mar 16 00:55	28°) 47′50	
minimum elong	10332 Apr 05 00:50	18° Y 46'19	1°44'46	minimum elong	10333 Mar 15 17:31	28°) 18'16	1°06'30
max. Earth dist.	10332 Apr 06 14:23	21° Y 13'12	1.45645 AU		10333 Mar 16 19:00	0° Ƴ	

	10222 M 20 00.42	5° Ƴ 43'26	1 45222 ATT		10224 E-L 24 12:20	00 V 17(20	0024127
max. Earth dist. evening rise	10333 Mar 20 09:43 10333 Apr 01 00:47	23° Y 46'56	1.45222 AU	superior conj minimum elong	10334 Feb 24 13:30 10334 Feb 24 11:01	9° ¥ 16'29 9° ¥ 06'07	0°24'02
evening rise	10333 Apr 01 00.47	0° 8		max. Earth dist.	10334 Net 24 11:01 10334 Mar 03 03:09	20°) € 00'40	1.44109 AU
greatest brilliancy	10333 Apr 05 02:19	16° 8 05'48	-0.6m	max. Earth dist.	10334 Mar 09 10:52	20 γ (00 40	1.44109 AU
greatest orimancy	10333 Apr 15 15:55 10333 Apr 26 06:55	0°П	-0.0111	evening rise	10334 Mar 11 12:53	3° Υ 13'42	
evening max el	10333 Apr 27 14:14	1° ∏ 23′08	19°58'22	evening rise	10334 Mar 29 13:55	0°8	
asc. node	10333 Apr 29 11:21	3° П 07'48	17 30 22	evening max el	10334 Apr 10 13:31	15° 8 06'24	21°05'11
retrograde	10333 May 05 04:36	5° ∏ 45'02		asc. node	10334 Apr 16 08:32	19° 8 29'57	21 03 11
evening set	10333 May 09 00:27	4° Ⅱ 19'59		retrograde	10334 Apr 19 03:09	20° 8 07'45	
e venning see	10333 May 13 02:14	30°R₩		evening set	10334 Apr 23 08:53	18° 8 26'58	
inferior conj	10333 May 14 08:22	28° 8 19'38	3°16'21	inferior conj	10334 Apr 28 15:38	12° 8 14'43	3°03'45
minimum elong	10333 May 14 07:45	28° 8 21'45	3°15'56	minimum elong	10334 Apr 28 14:08	12° 8 19'55	3°03'15
min. Earth dist.	10333 May 15 07:26	27° 8 01'49	0.67600 AU	min. Earth dist.	10334 Apr 29 01:05	11° 8 41'56	0.68341 AU
morning rise	10333 May 19 14:43	22° 8 00'22		morning rise	10334 May 03 19:10	5° 8 59'13	
direct	10333 May 25 10:13	19° 8 25'09		direct	10334 May 09 01:44	3° 8 39'58	
desc. node	10333 Jun 02 10:00	23° 8 01'16		morning max el	10334 May 19 14:32	9° 8 56'25	23°27'13
morning max el	10333 Jun 06 05:00	26° 8 29'30	24°56'21	desc. node	10334 May 20 06:54	10° 8 38'25	
C	10333 Jun 09 10:47	0° Ⅱ			10334 Jun 04 10:50	$\Pi^{\circ}0$	
	10333 Jun 30 23:16	0ంతె		morning set	10334 Jun 23 14:14	29° Ⅱ 48′24	
morning set	10333 Jul 12 03:37	18° © 45'37		Č	10334 Jun 23 16:59	0ಂತಾ	
max. Earth dist.	10333 Jul 15 17:48	25° © 15'15	1.36929 AU	max. Earth dist.	10334 Jun 27 14:32	6°5€41'12	1.39197 AU
	10333 Jul 18 06:51	$0^{\circ}\Omega$					
				superior conj	10334 Jul 05 04:59	20°524'10	-1°12'10
superior conj	10333 Jul 22 08:01	7° Ω 47'47	-0°39'04	minimum elong	10334 Jul 05 09:48	20°5346'37	1°11'53
minimum elong	10333 Jul 22 10:31	8° N 00'03	0°39'01		10334 Jul 10 06:27	$0^{\circ}\Omega$	
asc. node	10333 Jul 26 10:30	15° Ω 57′21		asc. node	10334 Jul 13 07:24	5° Ω 52'45	
evening rise	10333 Jul 30 16:38	24° N 32'33		evening rise	10334 Jul 14 13:13	8° Ω 17'14	
	10333 Aug 02 10:22	0° ™			10334 Jul 26 23:02	0° m	
evening max el	10333 Aug 16 17:19	22°M 26'23	19°32'09	evening max el	10334 Jul 30 16:55	4° ™ 27'27	18°42'30
retrograde	10333 Aug 26 09:54	27° m 14'49		retrograde	10334 Aug 07 21:16	8° Mp 32'33	
evening set	10333 Aug 28 06:07	27° m 05'09		evening set	10334 Aug 09 20:50	8° m 19'01	
desc. node	10333 Aug 29 08:31	26° Mp 50'38		desc. node	10334 Aug 16 05:44	5°№06'59	
inferior conj	10333 Sep 06 00:26	23°Mp00'13	-2°21'57	inferior conj	10334 Aug 17 21:04	3°M 55'36	-0°30'22
minimum elong	10333 Sep 05 18:05	23° Mp 10'19		minimum elong	10334 Aug 17 19:50	•	0°30'07
min. Earth dist.	10333 Sep 08 09:37	21° m 29'28	0.55510 AU	min. Earth dist.	10334 Aug 21 01:24	•	0.57127 AU
morning rise	10333 Sep 14 03:43	18° m 32'15			10334 Aug 23 11:06	30°R Ω	
direct	10333 Sep 19 02:42	17° Mp 37'10		morning rise	10334 Aug 25 15:26	28° Ω 50′20	
morning max el	10333 Oct 03 01:34	24° m/36'33	25°01'19	direct	10334 Aug 31 09:06	27° Ω 29'38	
	10333 Oct 08 01:01	0∘ ⊽			10334 Sep 08 09:38	0° т р	
asc. node	10333 Oct 22 10:59	22° Ω 28'36		morning max el	10334 Sep 14 16:15	4° m 57'38	26°32'25
	10333 Oct 26 06:36	0° ™		_	10334 Oct 02 22:44	0∘ ⊽	
morning set	10333 Oct 29 07:53	6°M23′42		asc. node	10334 Oct 09 07:48	11° Ω 54'11	
	1022231 05 02 52	210 W 2011 4	1020125	morning set	10334 Oct 13 18:14	21° ≏ 03'00	
superior conj	10333 Nov 05 03:52	21°M20'14			10334 Oct 17 20:54	0°M	
minimum elong	10333 Nov 05 03:04		1°38'46		10224 0 + 20 15 12	60 M 00103	1021110
max. Earth dist.	10333 Nov 06 19:29	24°M57'09	1.32290 AU	superior conj	10334 Oct 20 15:12	6°M08'03	1°31'18
avanina riaa	10333 Nov 09 03:33	0°⊀ 6°⊀46'36		minimum elong max. Earth dist.	10334 Oct 20 13:33 10334 Oct 21 03:25	5°M58'49 7°M15'57	1°31'24 1.31643 AU
evening rise	10333 Nov 12 09:03 10333 Nov 24 20:08	0°る。		evening rise	10334 Oct 21 03.23 10334 Oct 27 12:26	21°M09'04	1.31043 AU
desc. node	10333 Nov 24 20:08 10333 Nov 25 06:27	0°る42'48		evening rise	10334 Oct 27 12:20 10334 Oct 31 20:24	21 11 0 09 04 0° √ 1	
evening max el	10333 Nov 23 00.27 10333 Dec 15 08:17	0 34248 27° る 19'47	27°30'33	desc. node	10334 Oct 31 20:24 10334 Nov 12 03:34	0 x ⁴ 20° x ⁴00'51	
evening max er	10333 Dec 13 08:17	2/ ⊙1) 4/ 0°≈	27 30 33	desc. node	10334 Nov 19 01:40	0°る	
retrograde	10333 Dec 18 03:47 10333 Dec 29 03:22	0 ∞ 4° ≈ 38'34		evening max el	10334 Nov 27 14:41	9° ප 42'47	27°08'54
evening set	10334 Jan 05 03:44	2°≈13'33		retrograde	10334 Dec 11 12:09	16° ප 54'03	27 00 54
evening set	10334 Jan 07 22:57	30°Rる		evening set	10334 Dec 18 10:56	14° る 46'25	
min. Earth dist.	10334 Jan 08 21:14	29° そ 09'05	0.62805 AU	min. Earth dist.	10334 Dec 22 05:14	12° ろ 03'22	0.60753 AU
inferior conj	10334 Jan 11 16:57	26° පි 25'11		inferior conj	10334 Dec 25 08:14	9° ට 23'51	
minimum elong	10334 Jan 11 21:19	26° ට 14'37		minimum elong	10334 Dec 25 15:04	9° ප 09'15	
asc. node	10334 Jan 18 10:28	20 3 1437 21° 3 20'48		morning rise	10335 Jan 01 21:47	4°る32'52	
morning rise	10334 Jan 18 17:10	21° ට 14'35		direct	10335 Jan 04 01:28	4° ට 14'13	
direct	10334 Jan 21 00:17	20° ට 50'02		asc. node	10335 Jan 05 07:35	4° る 20'46	
morning max el	10334 Jan 27 16:06	24° ට 14'43	17°47'07	morning max el	10335 Jan 11 07:04	7° る 51'36	17°58'19
<i>5</i> 2-	10334 Feb 01 08:13	0° ≈		<i>5</i>	10335 Jan 25 13:53	0° ≈	
morning set	10334 Feb 12 17:14	18° ≈ 55'57		morning set	10335 Jan 26 21:50	2° ≈ 26'44	
=	10334 Feb 19 01:56	0° ∀		-			
desc. node	10334 Feb 21 06:14	3°) 43′17		superior conj	10335 Feb 06 03:08	20° ≈ 56′02	0°15'11
				minimum elong	10335 Feb 06 04:25	21° ≈ 01'38	0°15'19

behind sun begin	10335 Feb 06 02:07	20° ≈ 51'34		superior conj	10336 Jan 19 14:37	3° ≈ 37'21	0°47'51
behind sun end	10335 Feb 06 06:43	21°≈11'43		minimum elong	10336 Jan 19 17:33	3° ≈ 50'57	0°47'51
desc. node	10335 Feb 08 03:02	24° ≈ 24'26		desc. node	10336 Jan 25 23:53	15° ≈ 06'47	
	10335 Feb 11 09:43	0° ∀		max. Earth dist.	10336 Jan 27 01:29	16° ≈ 57'57	1.40363 AU
max. Earth dist.	10335 Feb 13 16:46	3° ¥ 49'48	1.42426 AU	evening rise	10336 Jan 31 08:00	24°≈12'08	1.10303710
		13° H 15'48	1.42420 AU	evening rise	10336 Feb 03 21:09	0° \	
evening rise	10335 Feb 19 12:27	13 Υ 1348				0 K 0°Υ	
	10335 Mar 02 10:28				10336 Feb 24 06:52		
evening max el	10335 Mar 24 07:43	28° Y 50′30	22°21'26	evening max el	10336 Mar 05 22:26		23°41'45
	10335 Mar 25 12:19	0°B		retrograde	10336 Mar 16 18:36	19° Y ′00′20	
retrograde	10335 Apr 03 00:16	4° 8 34'22		asc. node	10336 Mar 20 03:00	18° Ƴ 07'03	
asc. node	10335 Apr 03 05:46	4° 8 34'06		evening set	10336 Mar 21 22:54	16° Ƴ 50'14	
evening set	10335 Apr 07 16:53	2° 8 38'18		min. Earth dist.	10336 Mar 26 17:55	11° Ƴ 14'54	0.68472 AU
	10335 Apr 10 05:39	30° ŖƳ		inferior conj	10336 Mar 27 09:19	10° Y 22'14	2°08'39
inferior conj	10335 Apr 13 00:35	26° Ƴ 16'31	2°40'57	minimum elong	10336 Mar 27 07:08	10° Ƴ 29'44	2°07'57
minimum elong	10335 Apr 12 22:32	26° Ƴ 23'39	2°40'18	morning rise	10336 Apr 01 15:21	4° Υ 18'13	
min. Earth dist.	10335 Apr 12 21:16	26° Y ′28′02	0.68625 AU	direct	10336 Apr 05 18:54	2° Y 41'23	
morning rise	10335 Apr 18 04:03	20° Υ 06'12	0.00020110	morning max el	10336 Apr 13 21:18	7° Υ 18'12	20°38'55
direct	10335 Apr 10 04:05	18° Υ 07'25		desc. node	10336 Apr 23 00:37	18° Υ 26'06	20 30 33
	-	23° Y 31'40	21°58'56	desc. node		0° 8	
morning max el	10335 May 02 02:54		21-38-30		10336 May 01 02:56	_	
desc. node	10335 May 07 03:46	29° Y 11'46		morning set	10336 May 13 06:46	18° 8 25'26	
	10335 May 07 19:22	0° 8			10336 May 20 14:51	0°П	
	10335 May 28 19:40	Π °0		max. Earth dist.	10336 May 21 20:47	2° Ⅱ 00′29	1.43378 AU
morning set	10335 Jun 03 22:42	9° Ⅱ 39'07					
max. Earth dist.	10335 Jun 09 14:31	18° Ⅱ 54'52	1.41437 AU	superior conj	10336 May 28 11:36	12° Ⅱ 52'38	-2°05'00
	10335 Jun 16 02:16	0 \circ \odot		minimum elong	10336 May 28 16:42	13° Ⅱ 14′01	2°05'11
					10336 Jun 07 10:57	0°9	
superior conj	10335 Jun 17 07:39	2° © 08'57	-1°42'34	evening rise	10336 Jun 09 16:37	3°956'05	
minimum elong	10335 Jun 17 13:59	2° © 36'55	1°42'20	asc. node	10336 Jun 16 01:23	15° © 03'43	
evening rise	10335 Jun 27 22:43	21°528'50			10336 Jun 26 09:06	$0^{\circ}\Omega$	
asc. node	10335 Jun 30 04:22	25°936'38		evening max el	10336 Jun 26 13:38	0° Ω 11'18	18°04'26
use. Hode	10335 Jul 02 14:09	0°Ω		retrograde	10336 Jul 03 02:28	3°Ω33'24	10 0420
evening max el	10335 Jul 02 14:09	17° Ω 05'45	18°13'37	evening set	10336 Jul 05 16:54	3°Ω00'55	
•			10 1337	evening set			
retrograde	10335 Jul 21 03:57	20° Ω 41'49			10336 Jul 10 02:21	30°R©	2007122
evening set	10335 Jul 23 10:35	20° Ω 20'25		inferior conj	10336 Jul 12 05:22	27°957'21	2°07'22
inferior conj	10335 Jul 30 15:33	15° Ω 36'19	1°01'28	minimum elong	10336 Jul 12 08:10	27° © 50'19	2°06'08
minimum elong	10335 Jul 30 17:28	15° Ω 32'07	1°00'25	min. Earth dist.	10336 Jul 15 07:11	24° © 54'06	0.61493 AU
min. Earth dist.	10335 Aug 02 23:59	12° Ω 43'04	0.59226 AU	morning rise	10336 Jul 18 21:02	21° © 55'29	
desc. node	10335 Aug 03 02:56	12° Ω 37′00		desc. node	10336 Jul 20 00:08	21° © 12'44	
morning rise	10335 Aug 06 21:07	9° Ω 57'35		direct	10336 Jul 25 12:57	19° © 37'45	
direct	10335 Aug 13 05:09	8° Ω 07'16		morning max el	10336 Aug 08 18:27	27° © 38'46	27°56'55
morning max el	10335 Aug 27 14:01	15° Ω 55'56	27°33'33		10336 Aug 11 00:28	$0^{\circ}\Omega$	
	10335 Sep 08 01:54	o∘ mp			10336 Aug 31 19:53	0° m y	
	10335 Sep 25 09:24	0∘ <u>⊽</u>		morning set	10336 Sep 11 03:46	19° m)41'14	
asc. node	10335 Sep 26 04:38	1° ≏ 37'55		asc. node	10336 Sep 12 01:27	21°m)33'27	
morning set	10335 Sep 28 01:31	5° £ 30'56			10336 Sep 16 00:38	0∘ ⊽	
max. Earth dist.	10335 Sep 28 01:51 10335 Oct 04 13:05	19° ≏ 36'53	1.31472 AU	max. Earth dist.	10336 Sep 16 00:38		1.31788 AU
max. Latin dist.	10333 Oct 04 13.03	17 = 30 33	1.514/2 AU	max. Lartii dist.	10330 Sep 10 20.26	1 =4/3/	1.51766 AC
superior conj	10335 Oct 05 02:56	20° ≏ 53'51	1°18'39	superior conj	10336 Sep 18 13:10	5° ≏ 31'13	1°00'48
					•		
minimum elong	10335 Oct 05 00:46	20° ₽ 41'51	1-18-30	minimum elong	10336 Sep 18 10:58		1°00'26
	10335 Oct 09 05:26	0°M,		evening rise	10336 Sep 25 07:18	20° ≏ 20'41	
evening rise	10335 Oct 11 20:33	5° M .42'40 −			10336 Sep 29 22:37	0° M	
	10335 Oct 24 12:09	0° ∡ ⊓		desc. node	10336 Oct 15 21:59	26°M09'08	
desc. node	10335 Oct 30 00:45	8° ∡ ³35'33			10336 Oct 19 05:52	0° ∡ ″	
evening max el	10335 Nov 09 13:40	21° ∡ 15'35	26°13'14	evening max el	10336 Oct 21 04:28	1° ∡ 757'47	24°49'03
retrograde	10335 Nov 23 11:37	28° ∡ 19'57		retrograde	10336 Nov 04 00:05	8° ≯ 754′08	
evening set	10335 Nov 29 23:10	26° ∡ ³38'56		evening set	10336 Nov 09 11:53	7° ∡ ¹46'33	
min. Earth dist.	10335 Dec 04 02:43	24° ₹ 04'10	0.58645 AU	min. Earth dist.	10336 Nov 14 15:59	5° ∡ 101'43	0.56720 AU
inferior conj	10335 Dec 07 06:08	21° ∡ ¹44'44	-4°38'05	inferior conj	10336 Nov 17 07:54	3° ∡ 18'35	-5°30'15
minimum elong	10335 Dec 07 14:04	21° ₹ ′30′02		minimum elong	10336 Nov 17 13:10	3° ∡ 10'05	
morning rise	10335 Dec 15 07:30	17° ⋌ 16'10			10336 Nov 23 05:20	30°RM₁	
direct	10335 Dec 13 07:50	17° х 1010		morning rise	10336 Nov 25 16:42	29°M12'10	
asc. node	10335 Dec 17 11:32 10335 Dec 23 04:38	18° х 56'39		direct	10336 Nov 28 03:26	28°M55'28	
morning max el	10335 Dec 25 04.38	20° ₹ 59'35	18°29'31	ancei	10336 Nov 28 03:20 10336 Dec 02 18:58	20 11633 20 0° √ 1	
morning max er			10 27 31	morning me1			10022122
	10336 Jan 01 12:26	0°る		morning max el	10336 Dec 07 14:45	3° ₹ 26'52	19 22 33
morning set	10336 Jan 10 15:06	16° る 32'04		asc. node	10336 Dec 09 01:40	4° ∡ ¹56'37	
	10336 Jan 17 16:01	0° ≈			10336 Dec 24 05:01	0°る	
				morning set	10336 Dec 24 16:54	0° る 59'18	

superior conj	10337 Jan 01 18:53	17° る 05'17	1°12'18	superior conj	10337 Dec 16 11:24	1° る 06'50	1°28'42
minimum elong	10337 Jan 01 21:54	17° る 19'56	1°12'24	minimum elong	10337 Dec 16 13:36	10'81 ろ °1	1°28'59
max. Earth dist.	10337 Jan 08 07:16	29° ට 23'41	1.38157 AU	max. Earth dist.	10337 Dec 21 15:11	11° る 22'48	1.36061 AU
	10337 Jan 08 15:14	0° ≈		evening rise	10337 Dec 25 13:02	18° පි 46'21	
desc. node	10337 Jan 11 20:48	5° ≈ 46′10		desc. node	10337 Dec 29 17:44	26° ප 18'33	
evening rise	10337 Jan 12 01:01	6° ≈ 04'40			10337 Dec 31 21:07	0° ≈	
	10337 Jan 26 20:31	0°)			10338 Jan 21 00:33	0° ∀	
evening max el	10337 Feb 16 11:50	26° ¥ 25'57	24°59'48	evening max el	10338 Jan 30 01:18	10°) 1 4′40	26°08'22
	10337 Feb 20 12:59	0° Y		retrograde	10338 Feb 11 18:26	17° ¥ 28'13	
retrograde	10337 Feb 28 09:02	3° Y 20'29		evening set	10338 Feb 17 22:43	14°) € 57'53	
evening set	10337 Mar 06 01:26	0° Ƴ 58'37		asc. node	10338 Feb 21 21:27	10° ¥ 50′59	
asc. node	10337 Mar 07 00:14	0° Y 06′21		min. Earth dist.	10338 Feb 22 03:43	10°) 32′01	0.66930 AU
	10337 Mar 07 02:48	30° Ŗ ₩		inferior conj	10338 Feb 23 18:37	8°) €31'42	0°36'36
min. Earth dist.	10337 Mar 10 12:49	25° ¥ 58'06	0.67898 AU	minimum elong	10338 Feb 23 17:41	8°) 34′34	0°36'27
inferior conj	10337 Mar 11 16:00	24°) €28'48	1°27'11	morning rise	10338 Mar 01 13:22	2°){ 44'48	
minimum elong	10337 Mar 11 14:09	24°) 34′53	1°26'36	direct	10338 Mar 04 17:19	1°) 47′51	
morning rise	10337 Mar 17 03:09	18°) 32′26		morning max el	10338 Mar 11 08:51	5°) €23'16	18°40'57
direct	10337 Mar 20 18:15	17° ∺ 16'44		desc. node	10338 Mar 27 18:12	28°) 16′48	
morning max el	10337 Mar 27 23:26	21° ¥ 16′39	19°32'06		10338 Mar 28 20:39	$0^{\circ}\Upsilon$	
	10337 Apr 04 04:13	0° Υ		morning set	10338 Apr 01 18:49	6° Ƴ 08'35	
greatest brilliancy	10337 Apr 09 16:01	7° Y ′50'40	-0.7m	max. Earth dist.	10338 Apr 17 03:24	0° 8 10'34	1.45555 AU
desc. node	10337 Apr 09 21:26	8° Y 10'36			10338 Apr 17 00:42	0° 8	
morning set	10337 Apr 22 05:36	26° Y ′52'49					
	10337 Apr 24 06:08	9° 8		superior conj	10338 Apr 18 01:04	1° 8 35'21	-2°01'11
max. Earth dist.	10337 May 04 09:35	15° 8 50'26	1.44799 AU	minimum elong	10338 Apr 17 17:28	1° 8 05'37	2°00'56
				evening rise	10338 May 03 11:44	26° 8 01'13	
superior conj	10337 May 08 15:24	22° 8 35'18	-2°12'56		10338 May 05 23:23	Π°	
minimum elong	10337 May 08 14:53	22° 8 33'14	2°13'19	greatest brilliancy	10338 May 10 22:24	7° Ⅱ 55'24	-0.9m
	10337 May 13 05:34	Π $^{\circ}0$		asc. node	10338 May 20 19:34	22° Ⅱ 41′27	
evening rise	10337 May 22 14:05	15° Ⅲ 28'40		evening max el	10338 May 24 15:20	27° Ⅱ 10′26	18°41'26
	10337 May 31 07:38	0 \circ \mathfrak{S}			10338 May 28 07:02	0 ° \mathfrak{S}	
asc. node	10337 Jun 02 22:27	4° 5 08'07		retrograde	10338 May 31 05:17	0°5546'28	
evening max el	10337 Jun 10 03:25	13° © 35'38	18°13'59	evening set	10338 Jun 03 11:36	29° Ⅱ 45'43	
retrograde	10337 Jun 16 12:14	16° © 57'58			10338 Jun 03 01:43	30° Ŗ Ⅱ	
evening set	10337 Jun 19 10:33	16° © 12'05		inferior conj	10338 Jun 09 02:41	24° Ⅱ 07'55	3°11'44
inferior conj	10337 Jun 25 10:25	10°950'43	2°49'21	minimum elong	10338 Jun 09 03:53	24° Ⅲ 04'15	3°11'09
minimum elong	10337 Jun 25 12:43	10°9544'17	2°48'26	min. Earth dist.	10338 Jun 11 00:58	21° Ⅱ 45'59	0.65520 AU
min. Earth dist.	10337 Jun 27 23:39	7° © 59'38	0.63655 AU	morning rise	10338 Jun 14 19:24	17° Ⅱ 48′09	
morning rise	10337 Jul 01 13:24	4° © 36'07		direct	10338 Jun 21 07:07	15° Ⅱ 03'54	
desc. node	10337 Jul 06 21:16	2° © 05'45		desc. node	10338 Jun 23 18:22	15° Ⅲ 24'41	
direct	10337 Jul 08 06:16	1° 9 59'28		morning max el	10338 Jul 04 13:43	22° II 55'09	26°55'29
morning max el	10337 Jul 22 03:14	10° © 02'07	27°42'27		10338 Jul 10 19:49	0 \circ \odot	
	10337 Aug 06 18:14	$0^{\circ}\Omega$			10338 Jul 31 01:36	$0^{\circ}\Omega$	
	10337 Aug 24 04:29	0° m)		morning set	10338 Aug 09 07:14	16° Ω 42'06	
morning set	10337 Aug 25 22:39	3° m 27'47		max. Earth dist.	10338 Aug 13 13:37	25° Ω 05′10	1.33932 AU
asc. node	10337 Aug 29 22:17	11° m)36'18			10338 Aug 15 23:28	0° m	
max. Earth dist.	10337 Aug 30 21:44	13° m 39'25	1.32608 AU	asc. node	10338 Aug 16 19:08	1° m)41'44	
superior conj	10337 Sep 02 20:02	19° m 54'53	0°38'01	superior conj	10338 Aug 17 21:15	3° m 57'54	0°10'44
minimum elong	10337 Sep 02 18:20	19° M 45'46	0°37'33	minimum elong	10338 Aug 17 20:42	3° m 55'01	0°10'22
	10337 Sep 07 11:29	0∘ ⊽		behind sun begin	10338 Aug 17 16:19	3° Mp 32'05	
evening rise	10337 Sep 09 18:48	4° £ 58'01		behind sun end	10338 Aug 18 01:04	4° ™ 17'58	
	10337 Sep 23 01:25	0° M		evening rise	10338 Aug 25 05:05	19° m 28'36	
evening max el	10337 Oct 02 15:15	12°M09'01	23°09'47		10338 Aug 30 09:09	0∘ ত	
desc. node	10337 Oct 02 19:13	12°M18'34		evening max el	10338 Sep 14 06:34	22° ≏ 23'19	21°32'33
retrograde	10337 Oct 15 23:40	18° M 48'09		desc. node	10338 Sep 19 16:27	26° ≏ 34'41	
evening set	10337 Oct 20 01:17	18°M12'09		retrograde	10338 Sep 26 12:50	28° ≏ 28'44	
min. Earth dist.	10337 Oct 27 00:38	14°M58'58	0.55291 AU	evening set	10338 Sep 29 05:40	28° ≏ 12'06	
inferior conj	10337 Oct 28 14:06	14° M .04'36	-5°43'18	inferior conj	10338 Oct 08 07:39	24° ≏ 15'38	-5°00'32
minimum elong	10337 Oct 28 12:03	14° M 07'36	5°42'54	minimum elong	10338 Oct 07 22:42	24° ≏ 28'08	4°58'30
morning rise	10337 Nov 06 00:36	10°M13'59		min. Earth dist.	10338 Oct 08 07:58	24° ≏ 15'12	0.54636 AU
direct	10337 Nov 09 00:20	9° M ₅52'43		morning rise	10338 Oct 16 16:43	20° ≏ 26′28	
morning max el	10337 Nov 20 00:26	15° M .04'27	20°38'18	direct	10338 Oct 20 09:40	19° ≏ 56'41	
asc. node	10337 Nov 25 22:38	22°ML05'07		morning max el	10338 Nov 01 20:57	25° ≏ 52'21	22°14'17
	10337 Nov 30 22:08	0° ∡ ¹			10338 Nov 05 17:35	0° M	
morning set	10337 Dec 09 00:11	15° ∡ "39′46		asc. node	10338 Nov 12 19:34	10° ML $07'08$	
	10337 Dec 15 22:19	ರ∘ರ		morning set	10338 Nov 23 10:41	0° ∡ "27′15	

	10338 Nov 23 05:30	0° ∡ 7			10339 Oct 04 13:11	0° ⊽	
	103301101 23 03.30	· /		morning max el	10339 Oct 14 09:27	° - 6° - 206'44	24°01'15
superior conj	10338 Nov 30 12:33	15° ∡ ′31'53	1°37'40	asc. node	10339 Oct 30 16:28	28° ≏ 49'18	2. 0110
minimum elong	10338 Nov 30 13:34	15° ∡ ³37'17	1°38'05		10339 Oct 31 07:53	0°M	
max. Earth dist.	10338 Dec 04 05:48	23° х 16′50	1.34262 AU	morning set	10339 Nov 07 22:26	15°M15'22	
	10338 Dec 07 14:09	0°ප		8			
evening rise	10338 Dec 08 16:21	2° る 07'44		superior conj	10339 Nov 14 19:25	0° √ 11'15	1°39'57
desc. node	10338 Dec 16 14:42	16° る 39'23		minimum elong	10339 Nov 14 19:14	0° х 10′17	
	10338 Dec 24 19:44	0° ≈		Č	10339 Nov 14 17:20	0° ∡ ¹	
evening max el	10339 Jan 12 14:54	23° ≈ 55'02	27°00'02	max. Earth dist.	10339 Nov 17 04:22	5° х 18'36	1.32871 AU
S	10339 Jan 20 19:47	0°) €		evening rise	10339 Nov 22 07:19	15° ∡ 58'46	
retrograde	10339 Jan 25 21:58	1°) €16'33		S	10339 Nov 29 15:29	ರ°ರ	
C	10339 Jan 30 14:38	30° R ≈		desc. node	10339 Dec 03 11:44	6° る 42'15	
evening set	10339 Feb 01 12:52	28° ≈ 42'33			10339 Dec 19 11:34	0° ≈	
min. Earth dist.	10339 Feb 05 12:17	24°≈50'41	0.65589 AU	evening max el	10339 Dec 26 03:15	7° ≈ 14'41	27°27'47
inferior conj	10339 Feb 07 14:59	22° ≈ 26′03	-0°22'53	retrograde	10340 Jan 08 19:01	14° ≈ 36′14	
minimum elong	10339 Feb 07 15:38	22° ≈ 24'12	0°22'16	evening set	10340 Jan 15 17:29	12° ≈ 05′10	
asc. node	10339 Feb 08 18:39	21° ≈ 08'04		min. Earth dist.	10340 Jan 19 12:24	8° ≈ 45'04	0.63908 AU
morning rise	10339 Feb 13 19:41	16° ≈ 51'07		inferior conj	10340 Jan 22 02:29	6° ≈ 04'49	-1°30'31
direct	10339 Feb 16 14:04	16° ≈ 09'39		minimum elong	10340 Jan 22 05:22	5° ≈ 57'23	1°28'55
morning max el	10339 Feb 22 23:41	19° ≈ 32'27	18°06'30	asc. node	10340 Jan 26 15:49	1° ≈ 56′04	
	10339 Mar 02 23:47	0° ∀		morning rise	10340 Jan 28 19:12	0°≈44'41	
morning set	10339 Mar 13 12:13	16° ¥ 50′08		direct	10340 Jan 31 05:48	0° ≈ 15′03	
desc. node	10339 Mar 14 14:58	18°) 38'48		morning max el	10340 Feb 06 17:07	3° ≈ 36′03	17°49'08
	10339 Mar 21 15:55	0° Y		morning set	10340 Feb 23 09:20	28° ≈ 51'56	
					10340 Feb 24 01:19	0° ∀	
superior conj	10339 Mar 28 08:34	10° Ƴ 36'59	-1°30'37	desc. node	10340 Feb 29 11:42	9° ₩ 11'10	
minimum elong	10339 Mar 27 23:17	10° Y ′00′26	1°29'40				
max. Earth dist.	10339 Mar 30 23:35	14° Y ′44'26	1.45565 AU	superior conj	10340 Mar 07 07:32	20°) €26'24	-0°49'21
	10339 Apr 09 18:42	0°B		minimum elong	10340 Mar 07 02:11	20°) 04'40	0°48'29
evening rise	10339 Apr 13 11:37	5° 8 44'34		max. Earth dist.	10340 Mar 12 18:45	29° 升 12′21	1.44834 AU
greatest brilliancy	10339 Apr 26 02:43	25° 8 06'32	-0.7m		10340 Mar 13 06:47	0° Y	
	10339 Apr 29 10:31	Π $^{\circ}0$		evening rise	10340 Mar 22 23:33	15° Y 05'44	
asc. node	10339 May 07 16:42	10° Ⅲ 34'15			10340 Apr 01 19:58	0°8	
evening max el	10339 May 07 23:11	10° Ⅱ 50'48	19°25'45	evening max el	10340 Apr 20 01:34	24° 8 32'54	20°25'15
retrograde	10339 May 15 02:27	14° Ⅱ 52'50		asc. node	10340 Apr 23 13:52	27° 8 33'44	
evening set	10339 May 18 17:13	13° Ⅱ 36′34		retrograde	10340 Apr 28 01:14	29° 8 11'06	
inferior conj	10339 May 24 02:54	7° Ⅱ 43'49	3°18'26	evening set	10340 May 02 01:10	27° 8 39'12	
minimum elong	10339 May 24 02:54	7° Ⅱ 43'49	3°18'00	inferior conj	10340 May 07 08:17	21° 8 33'15	3°12'20
min. Earth dist.	10339 May 25 10:08	6° Ⅱ 01'16	0.66976 AU	minimum elong	10340 May 07 07:15	21° 8 36'47	3°11'52
morning rise	10339 May 29 12:12	1° Ⅲ 23′30		min. Earth dist.	10340 May 08 01:21	20° 8 34'47	0.67972 AU
	10339 May 31 08:09	30°₽ ႘		morning rise	10340 May 12 13:06	15° 8 15'20	
direct	10339 Jun 04 14:21	28° 8 42'37		direct	10340 May 18 03:06	12° 8 46'28	
	10339 Jun 09 06:50	Π $^{\circ}0$		desc. node	10340 May 27 12:20	17° 8 42'20	
desc. node	10339 Jun 10 15:23	0° Ⅱ 46'52		morning max el	10340 May 29 09:46	19° 8 31'49	24°18'53
morning max el	10339 Jun 17 00:05	6° Ⅱ 08'00	25°44'21		10340 Jun 07 07:14	$\Pi^{\circ}0$	
	10339 Jul 05 10:34	0 \circ \mathfrak{S}			10340 Jun 27 13:55	0 \circ \mathfrak{s}	
morning set	10339 Jul 23 01:46	29° © 15'04		morning set	10340 Jul 04 01:37	10°955'14	
	10339 Jul 23 11:35	$0^{\circ}\Omega$		max. Earth dist.	10340 Jul 07 17:31	17° © 23'32	1.37877 AU
max. Earth dist.	10339 Jul 26 19:18	6° Ω 12'45	1.35729 AU				
				superior conj	10340 Jul 14 19:36	0° Ω 34'34	-0°53'12
superior conj	10339 Aug 01 14:11	17° Ω 33'42	-0°20'11	minimum elong	10340 Jul 14 23:06	0° Ω 51′22	0°53'01
minimum elong	10339 Aug 01 15:25	17° Ω 39'55	0°20'19		10340 Jul 14 12:23	$0^{\circ}\Omega$	
asc. node	10339 Aug 03 15:59	21° Ω 46'12		asc. node	10340 Jul 20 12:53	11° Ω 46′15	
	10339 Aug 07 16:01	0° m		evening rise	10340 Jul 23 13:28	17° Ω 46'34	
evening rise	10339 Aug 09 12:08	3°№46'56			10340 Jul 29 22:20	0° m ∕	
	10339 Aug 24 13:21	0∘ ত		evening max el	10340 Aug 09 02:43	14° m)47'10	19°08'24
evening max el	10339 Aug 27 09:49	3° ഫ 11'39	20°10'13	retrograde	10340 Aug 18 03:06	19° m 16'13	
desc. node	10339 Sep 06 13:43	8° ჲ 28'51		evening set	10340 Aug 19 23:41	19° m 05'35	
retrograde	10339 Sep 07 01:55	8° م 29'32		desc. node	10340 Aug 23 10:59	17° m 54'25	
evening set	10339 Sep 09 00:50	8° ॒ 19'39		inferior conj	10340 Aug 28 10:51	14° m 53'22	-1°33'11
inferior conj	10339 Sep 18 01:59	4° ≙ 21'02	-3°27'20	minimum elong	10340 Aug 28 06:46	15°Mp00'17	1°31'45
minimum elong	10339 Sep 17 17:03	4° ≙ 34'18	3°24'19	min. Earth dist.	10340 Aug 31 06:04	12° m 59'52	0.56107 AU
min. Earth dist.	10339 Sep 19 16:57	3° ₽ 23'13	0.54917 AU	morning rise	10340 Sep 05 10:52	10° m 09'22	
morning rise	10339 Sep 26 08:17	0° ـ 12′15		direct	10340 Sep 10 17:49	9° ™ 04'23	
	10339 Sep 27 01:04	30°R.Mp		morning max el	10340 Sep 24 21:45	16°M 17'39	25°43'06
direct	10339 Sep 30 19:47	29° TD 28'54			10340 Oct 06 01:10	0∘ ⊽	

,	10240 0 + 16 12 10	100 0 01104			10241 4 10 00 15	250 027127	
asc. node	10340 Oct 16 13:19	18° £ 01'24		desc. node	10341 Aug 10 08:15	25° Ω 37'27	0.55050 111
morning set	10340 Oct 22 09:46	29° £ 59'19		min. Earth dist.	10341 Aug 13 00:47	23° Ω 30'42	0.57978 AU
	10340 Oct 22 09:54	0° M		morning rise	10341 Aug 17 06:04	20° Ω 47'23	
				direct	10341 Aug 23 06:40	19° Ω 13'50	
superior conj	10340 Oct 29 05:43	14°M57'58	1°36'06	morning max el	10341 Sep 06 15:14	26° Ω 52'27	27°02'42
minimum elong	10340 Oct 29 04:31	14°ML51'19	1°36'21		10341 Sep 09 15:03	0° m)	
max. Earth dist.	10340 Oct 30 09:31	17° M 31'23	1.31947 AU		10341 Sep 29 12:45	0∘ ⊽	
evening rise	10340 Nov 05 06:57	0° ≯ 11'46		asc. node	10341 Oct 03 10:09	7° £ 35′06	
	10340 Nov 05 04:41	0° ∡ ¹		morning set	10341 Oct 06 19:00	14° ≏ 33'51	
desc. node	10340 Nov 19 08:50	26° ҂ 19'33					
	10340 Nov 21 16:29	0°₹		superior conj	10341 Oct 13 17:26	29° ≏ 45'24	1°26'35
evening max el	10340 Dec 07 12:22	20° පි 01'16	27°25'29	minimum elong	10341 Oct 13 15:31	29° ≙ 34'42	1°26'35
retrograde	10340 Dec 21 08:53	27° る 17'50			10341 Oct 13 20:04	0° M .	
evening set	10340 Dec 28 09:36	24° る 58'40		max. Earth dist.	10341 Oct 13 18:22	29° ≏ 50'35	1.31505 AU
min. Earth dist.	10341 Jan 01 02:34	22° る 04'45	0.61951 AU	evening rise	10341 Oct 20 12:36	14°MJ39'17	
inferior conj	10341 Jan 04 02:07	19° る 20'32	-2°44'08		10341 Oct 28 04:36	0° ∡ ¹	
minimum elong	10341 Jan 04 07:35	19° る 07'56	2°41'36	desc. node	10341 Nov 06 06:02	15° ∡ 20'41	
morning rise	10341 Jan 11 08:05	14° る 18'14			10341 Nov 17 14:16	0°る	
asc. node	10341 Jan 12 12:56	14° ට 01'17		evening max el	10341 Nov 19 15:52	2° ප 03'26	26°49'21
direct	10341 Jan 13 13:15	13° る 56'43		retrograde	10341 Dec 03 14:17	9° ප 12'17	
morning max el	10341 Jan 20 10:01	17° る 25'37	17°49'32	evening set	10341 Dec 10 09:20	7°る15'05	
C	10341 Jan 29 09:25	0° ≈		min. Earth dist.	10341 Dec 14 06:12	4° ට 37'14	0.59841 AU
morning set	10341 Feb 05 04:16	11° ≈ 55'35		inferior conj	10341 Dec 17 10:24	2°る04'09	
desc. node	10341 Feb 15 08:29	29° ≈ 50'13		minimum elong	10341 Dec 17 18:00	1° ට 48'51	3°55'48
	10341 Feb 15 10:46	0°) €			10341 Dec 20 02:46	30°R ✓	
	105 11 100 10 10 10	٠,٨		morning rise	10341 Dec 25 05:19	27° ×7 22'25	
superior conj	10341 Feb 16 06:56	1° ₩ 26'00	-0°07'05	direct	10341 Dec 27 08:31	27° × 05'25	
minimum elong	10341 Feb 16 06:17	1° X 23'16		asc. node	10341 Dec 27 00:31 10341 Dec 30 10:01	27° х 42'10	
behind sun begin	10341 Feb 15 00:17	0°) (49'25	0 00 42	asc. node	10342 Jan 03 00:31	0°중	
behind sun end	10341 Feb 16 14:14	1°) 57'02		mamina may al	10342 Jan 03 00:51	0°る51'30	18°09'03
max. Earth dist.	10341 Feb 16 14.14 10341 Feb 23 10:17	13° H 17'40	1.43454 AU	morning max el	10342 Jan 19 14:53	0 03130 25°る42'59	18 09 03
		24°) 43'32	1.43434 AU	morning set		23 3 42 39 0° ≈	
evening rise	10341 Mar 02 14:54	24°π43′32 0°Υ			10342 Jan 21 21:40	0°≈	
	10341 Mar 06 00:53				10242 1 20 06 27	120 - 22126	0020100
	10341 Mar 26 21:27	0°8	21026144	superior conj	10342 Jan 29 06:27	13°≈33'36	0°30'00
evening max el	10341 Apr 02 22:24	8° 8 15'52	21°36'44	minimum elong	10342 Jan 29 08:40	13°≈43'35	0°30'02
asc. node	10341 Apr 10 11:05	13° 8 24'34		desc. node	10342 Feb 02 05:19	20°≈32'33	1 41500 411
retrograde	10341 Apr 11 23:28	13° 8 35'52		max. Earth dist.	10342 Feb 05 21:25	26°≈49'10	1.41580 AU
evening set	10341 Apr 16 09:37	11° 8 48'37			10342 Feb 07 19:07	0°) {	
inferior conj	10341 Apr 21 16:32	5° 8 31'46		evening rise	10342 Feb 10 22:29	5° ∺ 08'19	
minimum elong	10341 Apr 21 14:45	5° 8 37'59			10342 Feb 27 06:43	0° Υ	
min. Earth dist.	10341 Apr 21 20:29	5° 8 18'01	0.68514 AU	evening max el	10342 Mar 16 15:01	22° Y 01'46	22°55'30
	10341 Apr 26 01:54	30° ₹ Υ		retrograde	10342 Mar 26 19:34	28° Y 03′15	
morning rise	10341 Apr 26 19:42	29° Ƴ 18′04		asc. node	10342 Mar 28 08:19	27° Y 51′53	
direct	10341 May 01 20:23	27° ℃ 07'12		evening set	10342 Mar 31 16:59	26° Y 01′18	
	10341 May 08 11:21	$8^{\circ 0}$		min. Earth dist.	10342 Apr 05 17:14	20° Y 05'41	0.68613 AU
morning max el	10341 May 11 20:08	3° 8 02'07	22°48'57	inferior conj	10342 Apr 06 01:39	19° Ƴ 36'30	2°28'24
desc. node	10341 May 14 09:14	5° 8 45'32		minimum elong	10342 Apr 05 23:30	19° Ƴ 44'00	2°27'43
	10341 Jun 01 08:49	Π $\circ 0$		morning rise	10342 Apr 11 05:53	13° Y 28′30	
morning set	10341 Jun 15 01:27	21° Ⅲ 28′18		direct	10342 Apr 15 17:06	11° Ƴ 38'47	
max. Earth dist.	10341 Jun 19 14:26	29° Ⅱ 05'40	1.40166 AU	morning max el	10342 Apr 24 10:36	16° Ƴ 41'54	21°23'26
	10341 Jun 20 03:07	0ಂ ತಾ		desc. node	10342 May 01 06:05	24° Ƴ 38'19	
					10342 May 05 06:18	9° 8	
superior conj	10341 Jun 27 09:19	12° © 50'05	-1°25'41		10342 May 25 10:14	Π $^{\circ}0$	
minimum elong	10341 Jun 27 14:58	13° © 15'50	1°25'23	morning set	10342 May 25 22:41	0°Ⅱ49′06	
	10341 Jul 06 13:22	$0^{\circ}\Omega$		max. Earth dist.	10342 Jun 01 16:40	11° Ⅱ 41'18	1.42320 AU
evening rise	10341 Jul 07 05:50	1° Ω 18′18					
asc. node	10341 Jul 07 09:49	1° Ω 37'16		superior conj	10342 Jun 09 02:51	24° Ⅱ 10'35	-1°53'25
evening max el	10341 Jul 23 06:28	27° Ω 05′28	18°27'47	minimum elong	10342 Jun 09 09:08	24° Ⅲ 37'40	1°53'21
	10341 Jul 27 03:50	0° m p			10342 Jun 12 11:07	0°ಅ	
retrograde	10341 Jul 30 22:42	0° m 56'14		evening rise	10342 Jun 20 09:17	14°512'33	
evening set	10341 Aug 02 00:58	0° m/39'54		asc. node	10342 Jun 24 06:50	21° © 14'55	
-	10341 Aug 03 21:32	30° ₽ Ω			10342 Jun 29 08:37	$0^{\circ}\Omega$	
inferior conj	10341 Aug 09 16:53	26°Ω08'04	0°11'41	evening max el	10342 Jul 06 17:03	9° Ω 57'12	18°07'21
minimum elong	10341 Aug 09 17:18	26° Ω 07'14		retrograde	10342 Jul 13 12:27	13° Ω 25'03	
transit middle	10341 Aug 09 17:18	26° Ω 07'14	0°11'12	evening set	10342 Jul 15 22:31	12° Ω 59'10	
transit begin	10341 Aug 09 14:44	26° Ω 12'20		inferior conj	10342 Jul 22 20:02	8° Ω 06'41	1°32'34
transit end	10341 Aug 09 19:52	26° Ω 02'08		minimum elong	10342 Jul 22 22:34	8° Ω 00'49	1°31'19
					·		

min. Earth dist.	10342 Jul 26 02:46	5° Ω 06'21	0.60200 AU	morning rise	10343 Jul 12 02:54	14° © 34'17	
desc. node	10342 Jul 28 05:26	3° Ω 22'50		desc. node	10343 Jul 15 02:35	12° © 52'14	
morning rise	10342 Jul 29 19:42	2° Ω 17′04		direct	10343 Jul 18 20:01	12° © 07'35	
direct	10342 Aug 05 08:12	0° Ω 14'13		morning max el	10343 Aug 01 22:22	20° © 09'45	27°55'11
morning max el	10342 Aug 19 15:47	8° Ω 08'41	27°48'07		10343 Aug 10 08:42	$0^{\circ}\Omega$	
C	10342 Sep 05 07:41	0° m)			10343 Aug 29 07:44	0° ™	
asc. node	10342 Sep 20 06:59	27° m) 24'20		morning set	10343 Sep 04 23:47	12° m) 55'44	
morning set	10342 Sep 21 00:21	28° m) 54'28		asc. node	10343 Sep 07 03:50	17° m) 23'51	
morning set	•	0° ⊽			10343 Sep 10 08:55	-	1 22000 ATT
m at the	10342 Sep 21 12:52		1 21 7 7 2 1 1 1	max. Earth dist.	10343 Sep 10 08.33	24° Mp 13'14	1.32080 AU
max. Earth dist.	10342 Sep 27 03:28	12° ≏ 08'04	1.31550 AU				
		_		superior conj	10343 Sep 12 13:48	29° Mp 00'35	
superior conj	10342 Sep 28 04:45	14° ≏ 28'04	1°11'42	minimum elong	10343 Sep 12 11:45	28° Mp 49'21	0°51'17
minimum elong	10342 Sep 28 02:31	14° ≏ 15'40	1°11'27		10343 Sep 13 00:40	0∘ ⊽	
evening rise	10342 Oct 04 22:04	29° ≏ 15'24		evening rise	10343 Sep 19 09:23	13° ≏ 54'23	
	10342 Oct 05 06:24	0° M			10343 Sep 27 08:55	0° M $_{\circ}$	
	10342 Oct 21 15:48	0° ∡ 7		desc. node	10343 Oct 11 00:28	20°M32'53	
desc. node	10342 Oct 24 03:14	3° ∡ ³31'30		evening max el	10343 Oct 13 23:46	23°M40'06	24°07'37
evening max el	10342 Nov 01 11:29	13° ∡ 14'13	25°40'22	Ü	10343 Oct 24 00:07	0° ∡ 7	
retrograde	10342 Nov 15 08:59	20°×114'49	20 .022	retrograde	10343 Oct 27 15:38	0° х 30′24	
evening set	10342 Nov 21 11:54	18° × 47'56		retrograde	10343 Oct 27 13:38 10343 Oct 31 08:22	30°RM	
•			0.57702.411				
min. Earth dist.	10342 Nov 25 23:55	16° √ 11'06	0.57782 AU	evening set	10343 Nov 01 14:04	29°M36'58	
inferior conj	10342 Nov 28 23:56	14° ∡ 05'41		min. Earth dist.	10343 Nov 07 10:26	26°M42'25	0.56034 AU
minimum elong	10342 Nov 29 07:19	13° ∡ 52'46	5°01'45	inferior conj	10343 Nov 09 17:01	25° ™ 18'57	
morning rise	10342 Dec 07 05:04	9° ∡ ¹46'25		minimum elong	10343 Nov 09 19:36	25° ™ 14'58	5°41'20
direct	10342 Dec 09 11:25	9° ∡ ³30′29		morning rise	10343 Nov 18 03:11	21°M20'42	
asc. node	10342 Dec 17 07:04	12° ∡ 55′02		direct	10343 Nov 20 18:58	21°M02'26	
morning max el	10342 Dec 18 03:46	13° ∡ 42'38	18°49'22	morning max el	10343 Nov 30 21:13	25°M49'39	19°52'07
C	10342 Dec 29 06:52	აი		asc. node	10343 Dec 04 04:04	29°M26'23	
morning set	10343 Jan 03 12:13	9° る 58'55			10343 Dec 04 14:43	0° ₹	
morning sec	103 13 3411 03 12.13	, G 3033		morning set	10343 Dec 18 16:41	24° × ⁷ 33'14	
aumorior coni	10242 Ion 12 01,27	26° る 35'59	0°59'15	morning set		0°る	
superior conj	10343 Jan 12 01:37				10343 Dec 21 08:52	0.0	
minimum elong	10343 Jan 12 04:44	26° る 50'45	0°59'15				
	10343 Jan 13 21:03	0° ≈		superior conj	10343 Dec 26 11:36	10°る20'02	
max. Earth dist.	10343 Jan 19 04:47	9° ≈ 39'49	1.39425 AU	minimum elong	10343 Dec 26 14:20	10° る 33'37	
desc. node	10343 Jan 20 02:12	11° ≈ 14′01		max. Earth dist.	10344 Jan 01 11:11	21° る 53'33	1.37236 AU
evening rise	10343 Jan 23 03:17	16° ≈ 29'06		evening rise	10344 Jan 05 04:46	28° る 43'34	
	10343 Jan 31 10:19	0° ∀			10344 Jan 05 21:55	0° ≈	
	10343 Feb 21 21:28	$0^{\circ}\mathbf{\Upsilon}$		desc. node	10344 Jan 06 23:07	1°≈51'11	
evening max el	10343 Feb 27 05:08	5° Ƴ 50′21	24°15'42		10344 Jan 24 18:30	0° ∀	
retrograde	10343 Mar 10 12:13	12° Y '27'40		evening max el	10344 Feb 09 18:24	19° ¥ 39'52	25°30'29
asc. node	10343 Mar 15 05:32	10° Y ′44'37		retrograde	10344 Feb 22 00:29	26°) 43'39	
evening set	10343 Mar 15 21:42	10° Υ 12'20		evening set	10344 Feb 27 22:11	24°) 17'26	
min. Earth dist.	10343 Mar 20 13:21	4°Υ51'56	0.68283 AU	asc. node	10344 Mar 01 02:45	22°\(\)(1720	
		3° Υ 43'16					0.67538 AU
inferior conj	10343 Mar 21 09:44		1°52'11	min. Earth dist.	10344 Mar 03 06:40	19°) (32′02	
minimum elong	10343 Mar 21 07:38	3°Υ50'23	1°51'31	inferior conj	10344 Mar 04 14:54	17°) (48'37	1°06'50
	10343 Mar 24 07:56	30°₽)		minimum elong	10344 Mar 04 13:22	17° ¥ 53'33	1°06'24
morning rise	10343 Mar 26 17:39	27°) 42′22		morning rise	10344 Mar 10 05:00	11° ¥ 56′18	
direct	10343 Mar 30 15:53	26°) 14'32		direct	10344 Mar 13 15:14	10°) 48′58	
	10343 Apr 06 18:11	0° Υ		morning max el	10344 Mar 20 13:35	14°) 36′36	19°08'25
morning max el	10343 Apr 07 08:09	0° Ƴ 33'41	20°08'42		10344 Apr 01 07:24	0° Y	
desc. node	10343 Apr 18 02:53	14° Y ′06'43		greatest brilliancy	10344 Apr 02 17:03	2° Y 05'47	-0.7m
	10343 Apr 28 21:33	0°8		desc. node	10344 Apr 03 23:40	4° Υ 01'15	
morning set	10343 May 05 00:09	9° 8 19'50		morning set	10344 Apr 13 02:28	18° Ƴ 00'54	
max. Earth dist.	10343 May 15 02:23	25° 8 09'36	1.44068 AU	Č	10344 Apr 20 19:49	0°8	
man. Darm dist.	10343 May 18 02:37	0°II	1.11000110	max. Earth dist.	10344 Apr 26 17:57		1.45212 AU
	10343 May 10 02.37	О Д		max. Earth dist.	10544 Apr 20 17.57) 01333	1.43212710
superior com:	103/13 May 20 20:25	4° Ⅱ 27'59	2010/21	superior con-	103/// Apr 20 15:05	13° 8 48'22	2010/20
superior conj	10343 May 20 20:25			superior conj	10344 Apr 29 15:05		
minimum elong	10343 May 20 23:40	4° ∏ 41'18	2~10'51	minimum elong	10344 Apr 29 11:19	13° 8 33'29	2~10'41
evening rise	10343 Jun 02 19:02	26° Ⅱ 17'53		_	10344 May 09 17:33	0° Π	
	10343 Jun 04 22:32	0ა ௐ		evening rise	10344 May 14 06:37	7° Ⅲ 25'30	
asc. node	10343 Jun 11 03:52	10° © 33'21		asc. node	10344 May 28 00:56	29° Ⅱ 25'48	
evening max el	10343 Jun 20 06:34	23° © 11'55	18°06'11		10344 May 28 10:26	0 \circ \odot	
retrograde	10343 Jun 26 16:22	26° © 32'16		evening max el	10344 Jun 02 19:47	6°5541'21	18°23'25
evening set	10343 Jun 29 10:14	25° © 54'09		retrograde	10344 Jun 09 05:48	10° © 08'15	
inferior conj	10343 Jul 05 16:50	20°5542'31	2°27'49	evening set	10344 Jun 12 07:26	9° 5 516'10	
minimum elong	10343 Jul 05 19:32			inferior conj	10344 Jun 18 03:07	3°547'22	3°00'59
min. Earth dist.	10343 Jul 08 13:39	17° © 42'21	0.62447 AU	minimum elong	10344 Jun 18 04:58	3°9541'54	
	00 15.57	221	, . 10		10 01.50	154	

min Forth dist	10244 Jun 20 10:01	1° 5 07'06	0.64402.411	avanina may al	10245 May 17, 06:10	200T1022	10050!10
min. Earth dist.	10344 Jun 20 10:01 10344 Jun 21 10:17	1°90706 30°R∏	0.64492 AU	evening max el	10345 May 17 06:10 10345 May 24 01:03	20° Ⅱ 19'32 24° Ⅱ 05'35	18°58'18
morning rise	10344 Jun 24 01:22	30 KII 27°II29'35		retrograde evening set	10345 May 27 10:45	24 H03 33 22°H58'30	
direct	10344 Jun 30 16:29	24° II 48'32		inferior conj	10345 Jun 01 23:11	17° Ⅱ 14'13	3°16'18
desc. node	10344 Jun 30 10.29	24° II 48'50		minimum elong	10345 Jun 01 23:51	17° I I14'13	3°15'48
desc. Hode	10344 Jul 11 08:45	24 п 46 30		min. Earth dist.	10345 Jun 03 15:03	17 П 1203	
morning max el	10344 Jul 11 08:45	0 S 2°S48'15	27026102	morning rise	10345 Jun 07 12:21	13 П 07 30 10° П 53'28	0.00187 AU
morning max er	10344 Jul 14 08.26 10344 Aug 03 16:47	2 948 13 0°Ω	27 2002	direct	10345 Jun 13 20:23	10 Д33 28 8°Д09'15	
morning set	10344 Aug 18 14:41	26° Ω 30'00		desc. node	10345 Jun 17 20:43	9° П 04'19	
morning set						9 П04 19 15°П52'19	26927126
Fauth diat	10344 Aug 20 09:02 10344 Aug 23 06:44	0° M)	1.33111 AU	morning max el	10345 Jun 26 19:12	13° Щ 32°19	26°27'36
max. Earth dist.	0	5° m 55'19	1.33111 AU		10345 Jul 08 10:35		
asc. node	10344 Aug 24 00:39	7° Mp 28'27		. ,	10345 Jul 27 12:54	0° Ω	
	10244 4 26 10 21	120m 17117	0006157	morning set	10345 Aug 01 17:52	9° Ω 29'06	1 24642 444
superior conj	10344 Aug 26 18:31	13° M) 16'15	0°26'57	max. Earth dist.	10345 Aug 05 18:05	17° Ω 11'46	1.34642 AU
minimum elong	10344 Aug 26 17:14	13° Mp 09'23	0°26'30		10245 4 10 16 26	270 000116	0000100
evening rise	10344 Sep 02 20:36	28° m/29'44		superior conj	10345 Aug 10 16:36	27°Ω09'16	
	10344 Sep 03 13:39	0∘ 亚		minimum elong	10345 Aug 10 16:43	27° Ω 09'55	0°02'18
	10344 Sep 21 00:04	0° M ₊		behind sun begin	10345 Aug 10 10:53	26° Ω 39'52	
evening max el	10344 Sep 24 11:04	3° M ₊47'21	22°27'09	behind sun end	10345 Aug 10 22:33	27° Ω 40'01	
desc. node	10344 Sep 26 21:44	5° M 58′07		asc. node	10345 Aug 10 21:30	27° Ω 34'34	
retrograde	10344 Oct 07 10:29	10°M15'11			10345 Aug 12 01:34	0° ™	
evening set	10344 Oct 10 20:59	9° ጤ 49'09		evening rise	10345 Aug 18 05:49	12° m 56'19	
min. Earth dist.	10344 Oct 18 17:58	6° ™ 19'04	0.54900 AU		10345 Aug 27 00:08	0∘ ⊽	
inferior conj	10344 Oct 19 16:29	5° ™ 47'14	-5°32'20	evening max el	10345 Sep 06 06:55	14° ≙ 14'00	20°55'12
minimum elong	10344 Oct 19 10:57	5° ™ 55'03	5°31'28	desc. node	10345 Sep 13 18:58	19° ≏ 17'08	
morning rise	10344 Oct 28 02:37	1°M59'52		retrograde	10345 Sep 17 22:14	20° ₽ 00'17	
direct	10344 Oct 31 09:08	1°M35'41		evening set	10345 Sep 20 04:56	19° ≏ 47'55	
morning max el	10344 Nov 12 01:08	7° M -05'47	21°17'07	inferior conj	10345 Sep 29 08:34	15° ≏ 52'21	-4°25'48
asc. node	10344 Nov 20 01:01	16°M59'21		minimum elong	10345 Sep 28 22:42	16° ≏ 06′21	4°23'01
	10344 Nov 27 11:25	0° ∡ ¹		min. Earth dist.	10345 Sep 30 02:06	15° ≏ 27'26	0.54640 AU
morning set	10344 Dec 02 01:33	9° ∡ 17'17		morning rise	10345 Oct 07 16:37	11° ≏ 56'53	
				direct	10345 Oct 11 17:11	11° ≏ 22'07	
superior conj	10344 Dec 09 08:10	24° ⋌ ³32'52	1°33'21	morning max el	10345 Oct 24 17:27	17° ≏ 37'04	22°59'12
minimum elong	10344 Dec 09 09:53	24° ∡ ′41'46	1°33'43		10345 Nov 03 15:47	0°M	
C	10344 Dec 11 24:00	0°రె		asc. node	10345 Nov 06 21:56	5° ™ 19'51	
max. Earth dist.	10344 Dec 13 21:16	3°₹46'52	1.35244 AU	morning set	10345 Nov 16 12:46	24°M05'20	
evening rise	10344 Dec 17 23:42	11° る 42'57		· ·	10345 Nov 19 06:59	0° ∡ ¹	
desc. node	10344 Dec 23 20:05	22° ප 19'14					
	10344 Dec 28 09:13	0° ≈		superior conj	10345 Nov 23 12:04	9° ∡ °04'58	1°39'24
	10345 Jan 19 00:25	0° ∀		minimum elong	10345 Nov 23 12:34	9° х 07'40	
evening max el	10345 Jan 22 07:43	3° ¥ 25′09	26°32'48	max. Earth dist.	10345 Nov 26 14:55	15° ∡ ′41′23	1.33615 AU
retrograde	10345 Feb 04 07:37	10°) 44'07	20 02 .0	evening rise	10345 Dec 01 08:23	25° ₹ 18'05	1.55015110
evening set	10345 Feb 10 16:41	8° ¥ 11'12		evening rise	10345 Dec 03 18:33	0°る	
min. Earth dist.	10345 Feb 14 19:04	4° ₩ 00'08	0.66399 AU	desc. node	10345 Dec 10 17:06	12° る 33'09	
asc. node	10345 Feb 15 23:56	2°) 33′52	0.00377110	dese. Hode	10345 Dec 21 20:14	0°≈	
inferior conj	10345 Feb 16 15:07	1° X 48'11	0°12'26	evening max el	10346 Jan 04 20:55	16°≈57'52	27°15'15
minimum elong	10345 Feb 16 14:46	1°) (49'13	0°12'33	retrograde	10346 Jan 18 08:40	24°≈20'56	27 13 13
transit middle	10345 Feb 16 14:46	1°) 49'13	0°12'33	evening set	10346 Jan 25 03:05	21°≈47'19	
transit begin	10345 Feb 16 12:57	1°) 54'40	0 12 33	min. Earth dist.	10346 Jan 29 00:24	18° ≈ 09'11	0.64903 AU
transit end	10345 Feb 16 16:35	1°) 43'47		inferior conj	10346 Jan 31 08:02	15°≈36'36	
transit cita	10345 Feb 18 03:57	1 7(4347 30°R≈		minimum elong	10346 Jan 31 09:33	15°≈32'25	0°49'41
morning rise	10345 Feb 18 03.57 10345 Feb 22 13:50	26°≈06'19		asc. node	10346 Feb 02 21:08	13 ≈32 23 12°≈56'39	0 4941
direct							
	10345 Feb 25 13:26	25°≈16'33	10024117	morning rise	10346 Feb 06 17:37	10°≈07'30	
morning max el	10345 Mar 04 01:39	28° ≈ 45'24	18°24'17	direct	10346 Feb 09 08:20	9°≈31'39	1705(150
	10345 Mar 05 06:18	0°) 240) √1,4140		morning max el	10346 Feb 15 17:55	12°≈52'51	17°56'58
desc. node	10345 Mar 21 20:26	24°) 14'49			10346 Feb 27 19:53	0°)(
morning set	10345 Mar 24 02:53	27°) ₹51'12		morning set	10346 Mar 05 08:35	9°) €08'21	
	10345 Mar 25 11:18	0° Υ		desc. node	10346 Mar 08 17:12	14°) (41'37	
	10245 4 00 51 51	22000 4244	1050110		10346 Mar 18 03:32	0 ° Υ	
superior conj	10345 Apr 08 21:31	22°43'16			1024634 10 00 15	200000	1012110
minimum elong	10345 Apr 08 12:19	22° Y ′07'17		superior conj	10346 Mar 19 09:45	2°Υ00'25	
max. Earth dist.	10345 Apr 09 12:45	23° Y 42'47	1.45642 AU	minimum elong	10346 Mar 19 01:43	1° Y 28′28	
	10345 Apr 13 13:16	0° 8		max. Earth dist.	10346 Mar 23 08:16	8° Y 14'06	1.45332 AU
evening rise	10345 Apr 24 18:21	17° 8 35'09		evening rise	10346 Apr 04 11:19	27° Y ′03'55	
	10345 May 02 15:49	Π °0			10346 Apr 06 09:11	0°8	
greatest brilliancy	10345 May 04 15:38	3° Ⅱ 05'48	-0.8m	greatest brilliancy	10346 Apr 18 19:59	18° 8 48'09	-0.6m
asc. node	10345 May 14 22:02	17° Ⅱ 43'52			10346 Apr 26 22:57	Π °0	

ovening may al	10246 Apr 20 11:50	4° Ⅱ 01'11	19°49'28		10247 Mar 10 19:49	0° Ƴ	
evening max el asc. node	10346 Apr 30 11:50 10346 May 01 19:12	5° П 15'53	19 49 28	avanina rica	10347 Mar 10 18:48 10347 Mar 14 22:55	6° Υ 28'25	
	10346 May 07 23:05	8° Ⅱ 17'31		evening rise	10347 Mar 30 17:12	0°12023	
retrograde evening set	10346 May 11 17:36	6° П 54'44		avanina may al	10347 Mai 30 17.12 10347 Apr 13 11:57	17° 8 44'18	20°54'28
inferior conj	10346 May 17 01:54	0° П 56'26	3°17'17	evening max el asc. node	10347 Apr 13 11:37 10347 Apr 18 16:23	21° 8 48'25	20 34 26
,	•	0° Д 58'00			•	21° 6 4823	
minimum elong	10346 May 17 01:26		3°16'51	retrograde	10347 Apr 21 21:44	• • • •	
: D 4 11 4	10346 May 17 18:42	30°₹ 8	0.67455.411	evening set	10347 Apr 26 01:59	21° 8 00'44	2006121
min. Earth dist.	10346 May 18 03:04	29° 8 32'02	0.67455 AU	inferior conj	10347 May 01 08:46	14° 8 50'03	3°06'21
morning rise	10346 May 22 08:55	24° 8 36'52		minimum elong	10347 May 01 07:22	14° 8 54'51	3°05'51
direct	10346 May 28 06:15	21° 8 59'52		min. Earth dist.	10347 May 01 20:08	14° 8 10'43	0.68263 AU
desc. node	10346 Jun 04 17:42	25° 8 09'30		morning rise	10347 May 06 12:33	8° 8 33'58	
morning max el	10346 Jun 09 04:59	29° 8 09'56	25°09'07	direct	10347 May 11 21:05	6° 8 12'09	
	10346 Jun 10 00:23	Π °0		morning max el	10347 May 22 14:31	12° 8 36'03	23°40'38
	10346 Jul 02 05:56	0° ©		desc. node	10347 May 22 14:39	12° 8 36'24	
morning set	10346 Jul 15 05:05	21° © 41'27			10347 Jun 05 14:01	0°Щ	
max. Earth dist.	10346 Jul 18 19:34	28° © 15'39	1.36612 AU		10347 Jun 25 01:56	0 \circ	
	10346 Jul 19 17:56	0 \circ Ω		morning set	10347 Jun 26 19:16	2° © 54'10	
				max. Earth dist.	10347 Jun 30 16:37	9° © 37'24	1.38856 AU
superior conj	10346 Jul 25 05:06	10° Ω 31'44					
minimum elong	10346 Jul 25 07:15	10° Ω 42′23	0°34'02	superior conj	10347 Jul 08 04:24	23° © 14'50	-1°07'14
asc. node	10346 Jul 28 18:22	17° Ω 37'54		minimum elong	10347 Jul 08 08:53	23° © 35'54	1°06'58
evening rise	10346 Aug 02 10:44	27° Ω 07'37			10347 Jul 11 17:35	$0^{\circ}\Omega$	
	10346 Aug 03 21:00	O° m y		asc. node	10347 Jul 15 15:18	7° Ω 34'47	
evening max el	10346 Aug 19 16:15	25° m 22'54	19°41'18	evening rise	10347 Jul 17 08:41	10° Ω 56'38	
	10346 Aug 27 02:01	0∘ ত			10347 Jul 27 21:33	0° m y	
retrograde	10346 Aug 29 14:42	0° ჲ 18'38		evening max el	10347 Aug 02 14:15	7° m) 17'41	18°48'31
evening set	10346 Aug 31 11:18	0° ჲ 09'04		retrograde	10347 Aug 10 23:28	11° m 28'39	
desc. node	10346 Aug 31 16:13	0° ჲ 06'53		evening set	10347 Aug 12 22:06	11° m 16'00	
	10346 Sep 01 05:19	30°R, Mp		desc. node	10347 Aug 18 13:28	8° m 39'36	
inferior conj	10346 Sep 09 07:44	26° m 06'09	-2°39'23	inferior conj	10347 Aug 21 01:13	6° m 55'26	-0°46'17
minimum elong	10346 Sep 09 00:36	26° m) 17'16	2°36'49	minimum elong	10347 Aug 20 23:18	6° m 58'56	0°45'46
min. Earth dist.	10346 Sep 11 12:41	24° m 43'46	0.55331 AU	min. Earth dist.	10347 Aug 24 03:37	4° m) 41'33	0.56843 AU
morning rise	10346 Sep 17 11:55	21° m 43'37		morning rise	10347 Aug 28 21:11	1° m) 55'40	
direct	10346 Sep 22 08:03	20° m 51'47		direct	10347 Sep 03 12:10	0° mp 39'19	
morning max el	10346 Oct 06 04:45	27° m/45'42	24°46'09	morning max el	10347 Sep 17 18:44	8° m) 03'35	26°20'36
morning man er	10346 Oct 08 10:01	0∘ ⊽	2	morning mun vi	10347 Oct 04 04:41	0∘ ⊽	20 20 30
asc. node	10346 Oct 24 18:49	ა — 24° ჲ 16'12		asc. node	10347 Oct 11 15:41	ა — 13° ჲ 38'45	
ase. Hode	10346 Oct 27 17:48	0°M		morning set	10347 Oct 16 11:14	23° △ 33'25	
morning set	10346 Nov 01 00:34	8°M52'31		morning set	10347 Oct 10 11:14 10347 Oct 19 10:33	0°M	
morning set	103401101 01 00.34	0 1103231			10347 Oct 17 10.33	O IIIG	
superior conj	10346 Nov 07 20:41	23°M48'36	1°39'01	superior conj	10347 Oct 23 07:49	8°MJ36'26	1°32'44
minimum elong	10346 Nov 07 20:02	23°M45'05	1°39'23	minimum elong	10347 Oct 23 06:16	8°M27'50	1°32'53
max. Earth dist.	10346 Nov 09 16:41	27°M48'45	1.32425 AU	max. Earth dist.	10347 Oct 24 00:05	10°M06'45	1.31705 AU
max. Earth dist.	10346 Nov 10 16:57	0° √	1.52425 110	evening rise	10347 Oct 24 00:03 10347 Oct 30 05:57	23°M40'29	1.51705710
evening rise	10346 Nov 15 03:27	9°×720'09		evening rise	10347 Nov 02 07:46	0° √	
evening rise	10346 Nov 26 03:23	0°る		desc. node	10347 Nov 14 11:19	21° × 750'22	
desc. node	10346 Nov 27 14:10	2° る 26'38		desc. node	10347 Nov 14 11:19	0°る	
dese. Hode	10346 Dec 18 05:46	0° ≈		evening max el	10347 Nov 30 15:40	12° る 36'03	27°14'19
evening max el	10346 Dec 18 08:30	0°≈06'29	27°30'54	retrograde	10347 Dec 14 12:51	19°る48'39	2/ 141)
retrograde	10347 Jan 01 02:46	7°≈25'49	27 30 34	evening set	10347 Dec 14 12:31 10347 Dec 21 12:29	17° る 37'38	
evening set	10347 Jan 08 02:50	7 ≈23 49 4°≈59'04		min. Earth dist.	10347 Dec 21 12.29 10347 Dec 25 06:12		0.61068 AU
min. Earth dist.	10347 Jan 11 20:38	1°≈50'42	0.63100 AU	inferior conj	10347 Dec 28 08:31	14 3 32 13	
iiiii. Eartii tiist.	10347 Jan 13 17:49	1 ~3042 30°Rる	0.03100 AU	minimum elong	10347 Dec 28 08:31 10347 Dec 28 15:02	12 3 11 02	
::		30 KO 29° ろ 07'27	2001114	•		7°る17'04	3 13 16
inferior conj	10347 Jan 14 14:58	29° ろ 0727 28° ろ 57'41		morning rise direct	10348 Jan 04 20:09	6° る 57'47	
minimum elong	10347 Jan 14 18:55		1°59'12	asc. node	10348 Jan 07 00:08		
asc. node	10347 Jan 20 18:17	24° る 14'03			10348 Jan 07 15:25	6° ろ 59'30	17055126
morning rise	10347 Jan 21 13:11	23°る54'12 23°る28'24		morning max el	10348 Jan 14 03:07	10°る32'31 0°≈	17°55'26
direct	10347 Jan 23 21:10		15045102		10348 Jan 26 23:18		
morning max el	10347 Jan 30 11:31	26° る 51'46	17°47'03	morning set	10348 Jan 29 18:12	5° ≈ 04'22	
•	10347 Feb 02 05:37	0°≈ 210× -20151			10240 F 1 00 04 45	0004005	0000122
morning set	10347 Feb 15 15:54	21° ≈ 39'51		superior conj	10348 Feb 09 04:45	23°≈48'37	0°09'32
	10347 Feb 20 11:27	0°) {		minimum elong	10348 Feb 09 05:36	23°≈52'16	0°09'43
desc. node	10347 Feb 23 13:59	5°) 17'41		behind sun begin	10348 Feb 08 23:01	23°≈23'39	
		4.00.4		behind sun end	10348 Feb 09 12:10	24°≈20'50	
superior conj	10347 Feb 27 18:41	12° 米 18'49		desc. node	10348 Feb 10 10:48	25°≈58'39	
minimum elong	10347 Feb 27 15:28	12° 米 05'31	0°30'24		10348 Feb 12 19:18	0° ∀	
max. Earth dist.	10347 Mar 06 02:28	22°) ₹35'45	1.44320 AU	max. Earth dist.	10348 Feb 16 16:44	6° ∺ 30′02	1.42709 AU

evening rise	10348 Feb 22 20:03	16° ¥ 23'37		max. Earth dist.	10349 Jan 29 01:50	19° ≈ 43'31	1.40683 AU
	10348 Mar 02 16:30	0°Υ		evening rise	10349 Feb 02 12:22	27°≈11'22	
	10348 Mar 24 21:06	0°8	22000120		10349 Feb 04 05:35	0°) €	
evening max el	10348 Mar 26 06:45	1° 8 28'01	22°09'38		10349 Feb 24 07:55	0°Υ	
retrograde	10348 Apr 04 19:14	7° 8 05'51		evening max el	10349 Mar 08 21:50		23°29'48
asc. node	10348 Apr 04 13:37	7° 8 05'35		retrograde	10349 Mar 19 14:07	21° Y 32'22	
evening set	10348 Apr 09 10:10	5° 8 11'56		asc. node	10349 Mar 22 10:50	20° ℃ 53'10	
	10348 Apr 13 21:49	30°₹ Υ		evening set	10349 Mar 24 16:35	19° Y 24′20	
inferior conj	10348 Apr 14 17:36	28° Y 51'16	2°45'02	min. Earth dist.	10349 Mar 29 12:53	13° Y '43'40	0.68520 AU
minimum elong	10348 Apr 14 15:37	28° Y 58'12		inferior conj	10349 Mar 30 02:29	12° Y 56'56	2°14'09
min. Earth dist.	10348 Apr 14 16:08	28° Y 56'25	0.68611 AU	minimum elong	10349 Mar 30 00:17	13° Υ 04'29	2°13'27
morning rise	10348 Apr 19 20:55	22° Υ 40'04		morning rise	10349 Apr 04 07:58	6° Υ 51'46 5° Υ 11'39	
direct	10348 Apr 24 15:48	20° Υ 38'11	22011111	direct	10349 Apr 08 13:27		20050102
morning max el	10348 May 04 02:20	26° Y 10′21	22°11'41	morning max el	10349 Apr 16 19:38	9° Υ 55'09	20°50'02
	10348 May 07 14:27	0°8		desc. node	10349 Apr 25 08:22	20° Y 11'35	
desc. node	10348 May 08 11:31	1° 8 02'29		. ,	10349 May 02 07:37	0°8	
	10348 May 29 02:27	0°II		morning set	10349 May 16 18:54	21° 8 50'27	
morning set	10348 Jun 06 07:49	12° ∏ 56′21		F 4 F	10349 May 21 23:02	0°II	1 40415 477
max. Earth dist.	10348 Jun 11 15:44	21° II 43'02	1.41113 AU	max. Earth dist.	10349 May 24 20:44	4° ∏ 40′21	1.43117 AU
	10348 Jun 16 12:02	0_{\circ}			1024034 21 17 27	1 60 T 0 1100	2002122
				superior conj	10349 May 31 17:37	16° Ⅱ 01'23	
superior conj	10348 Jun 19 10:06	5°508'08		minimum elong	10349 May 31 23:11	16° Ⅱ 24'50	2°02'30
minimum elong	10348 Jun 19 16:19	5°935'51	1°38'05		10349 Jun 08 20:15	0.©	
evening rise	10348 Jun 29 20:08	24°5514'15		evening rise	10349 Jun 12 16:39	6°5548'44	
asc. node	10348 Jul 01 12:16	27° © 21'02		asc. node	10349 Jun 18 09:17	16°951'05	
	10348 Jul 02 22:39	0°N			10349 Jun 26 20:17	0°N	
evening max el	10348 Jul 15 21:21	19° Ω 51'29	18°16'40	evening max el	10349 Jun 29 09:33	2° Ω 53'39	18°04'37
retrograde	10348 Jul 23 03:29	23° Ω 31′03		retrograde	10349 Jul 05 23:46	6°Ω16'46	
evening set	10348 Jul 25 08:53	23°Ω11'07		evening set	10349 Jul 08 13:03	5° Ω 46'07	
inferior conj	10348 Aug 01 16:37	18° Ω 30'10	0°49'09	inferior conj	10349 Jul 15 03:45	0° Ω 45'30	1°58'56
minimum elong	10348 Aug 01 18:13	18° Ω 26'45	0°48'13	minimum elong	10349 Jul 15 06:33	0° Ω 38'40	1°57'41
desc. node	10348 Aug 04 10:41	16°Ω10'01	0.50000 4.77		10349 Jul 15 22:14	30°Rூ	0.61150.177
min. Earth dist.	10348 Aug 05 01:15	15° Ω 40'19	0.58892 AU	min. Earth dist.	10349 Jul 18 07:08	27°542'10	0.61158 AU
morning rise	10348 Aug 09 00:12	12° Ω 55'41		morning rise	10349 Jul 21 21:28	24°5546'28	
direct	10348 Aug 15 06:25	11° Ω 09'43	2702 (111	desc. node	10349 Jul 22 07:52	24°529'34	
morning max el	10348 Aug 29 15:30	18° Ω 56'15	27°26'44	direct	10349 Jul 28 12:45	22° © 32'14	
	10348 Sep 07 23:59	0° my			10349 Aug 11 05:51	0°N	25055150
,	10348 Sep 25 20:44	0∘ ⊽		morning max el	10349 Aug 11 18:57	0° Ω 32'07	27°55'50
asc. node	10348 Sep 27 12:31	3° £ 20′21		. ,	10349 Sep 02 03:20	0° Mp	
morning set	10348 Sep 29 19:05	8° ჲ 03'32		morning set	10349 Sep 13 22:11	22° Mp 16'41	
	10240 0 . 06 10 26		1000156	asc. node	10349 Sep 14 09:21	23° Mp 14'31	
superior conj	10348 Oct 06 19:36	23° Ω 23'03	1°20'56	E d E c	10349 Sep 17 13:55	0° ⊡	1 21710 411
minimum elong	10348 Oct 06 17:30	23° Ω 11'19	1°20'49	max. Earth dist.	10349 Sep 19 17:30	4° ≏ 40'23	1.31710 AU
max. Earth dist.	10348 Oct 06 09:39	22° Ω 27'40	1.31465 AU		10240 G 21 06 10	00 0 00104	1002151
	10348 Oct 09 19:03	0°M		superior conj	10349 Sep 21 06:10	8° Ω 02'04	1°03'51
evening rise	10348 Oct 13 13:30	8°M12'46		minimum elong	10349 Sep 21 03:57	7° Ω 49'47	1°03'30
1 1	10348 Oct 24 18:07	0° 🔏		evening rise	10349 Sep 27 23:57	22° Ω 50'25	
desc. node	10348 Oct 31 08:30	10° 🗷 32'34	26922121	44.	10349 Oct 01 09:42	0°M	
evening max el	10348 Nov 11 15:46	24°♂16'04 0°る	26°23'31	desc. node	10349 Oct 18 05:43	28°M16'38 0°⊀	
. 1	10348 Nov 19 17:04	0°5 1° 3 21'51			10349 Oct 19 14:57		25002157
retrograde	10348 Nov 25 13:57			evening max el	10349 Oct 24 07:45	5°×705'23	25°02'57
· ,	10348 Dec 01 08:34	30°₹ ⋌ 7		retrograde	10349 Nov 07 04:12	12° × 703'03	
evening set	10348 Dec 02 03:49	29° 🗷 36'19	0.50051 ATT	evening set	10349 Nov 12 20:11	10° 🗷 50'30	0.56001 ATT
min. Earth dist.	10348 Dec 06 05:09	27°×701'18	0.58951 AU	min. Earth dist.	10349 Nov 17 19:34	8°×7'08'13	0.56981 AU
inferior conj	10348 Dec 09 09:10	24° 🖈 37'42		inferior conj	10349 Nov 20 13:59	6° ₹ 18'56	
minimum elong	10348 Dec 09 17:06	24° ₹ 22'39	4-25/5/	minimum elong	10349 Nov 20 19:58	6° ₹ 09'03	3-25.08
morning rise	10348 Dec 17 09:00	20°×705'50		morning rise	10349 Nov 28 22:01	2°×709'12	
direct	10348 Dec 19 12:51	19° x ⁷ 49'42		direct	10349 Dec 01 07:19	1°× 7 52'51	10012114
asc. node	10348 Dec 24 12:28	21°×720'54	10000100	morning max el	10349 Dec 10 13:37	6° ₹ 19'12	19°13'14
morning max el	10348 Dec 27 13:07		18°23'33	asc. node	10349 Dec 11 09:29	7° ≯ 08'56	
	10349 Jan 01 14:17	0°る			10349 Dec 25 16:07	0°る	
morning set	10349 Jan 12 09:50	19° る 05'08		morning set	10349 Dec 27 10:33	3° る 29'44	
	10349 Jan 18 03:17	0° ≈		·	10250 1 04 15 15	100742117	1000107
avmani ·	10240 I 21 12.15	6001100	0942125	superior conj	10350 Jan 04 15:17	19°る43'15	1°09'07
superior conj	10349 Jan 21 13:15			minimum elong	10350 Jan 04 18:21	19° る 58'06	1°09'11
minimum elong	10349 Jan 21 16:04	6°≈34'21	0°43'24		10350 Jan 10 02:06	0°≈ 2°2 • 1 5100	1 20 402 411
desc. node	10349 Jan 27 07:39	16° ≈ 41′06		max. Earth dist.	10350 Jan 11 07:47	2° ≈ 15′08	1.38482 AU

desc. node	10250 I 14 04-22	7°≈21'24			10250 D 20 11-20	21° る 31'02	
	10350 Jan 14 04:33			evening rise	10350 Dec 28 11:38	21 3 31 02 27° 궁 55'11	
evening rise	10350 Jan 15 02:16	8°≈56'09		desc. node	10351 Jan 01 01:28		
	10350 Jan 28 02:12	0°) {	24040120		10351 Jan 02 06:12	0° ≈	
evening max el	10350 Feb 19 11:23	29°) €03'34	24°48'39		10351 Jan 21 23:25	0° ∀	
	10350 Feb 20 10:49	0° Υ		evening max el	10351 Feb 02 00:50	12°) € 52'50	25°59'04
retrograde	10350 Mar 03 05:09	5° Y ′54'02		retrograde	10351 Feb 14 15:13	20°) €03'57	
evening set	10350 Mar 08 19:42	3° Ƴ 33'51		evening set	10351 Feb 20 17:50	17°) ₹34'38	
asc. node	10350 Mar 09 08:02	3° Y ′06′28		asc. node	10351 Feb 24 05:14	13° ¥ 59'52	
	10350 Mar 12 03:38	30° Ŗ ₩		min. Earth dist.	10351 Feb 24 23:44	13°) €03'44	0.67100 AU
min. Earth dist.	10350 Mar 13 08:11	28° ¥ 28′07	0.68010 AU	inferior conj	10351 Feb 26 12:53	11° ∺ 07'41	0°44'52
inferior conj	10350 Mar 14 09:34	27° ₩ 04'05	1°34'05	minimum elong	10351 Feb 26 11:47	11° ∺ 11'08	0°44'38
minimum elong	10350 Mar 14 07:38	27°) 10′29	1°33'29	morning rise	10351 Mar 04 06:21	5°) 19'18	
morning rise	10350 Mar 19 19:47	21° ₩ 06'22		direct	10351 Mar 07 11:56	4° 升 19'40	
direct	10350 Mar 23 12:43	19° ¥ 47'32		morning max el	10351 Mar 14 04:55	7°){ 57'44	18°47'34
morning max el	10350 Mar 30 20:32	23° ¥ 52′06	19°41'05	desc. node	10351 Mar 30 01:56	29°) 55'43	
3	10350 Apr 05 03:11	0° Υ			10351 Mar 30 03:02	0° Υ	
desc. node	10350 Apr 12 05:10	9° Υ ′52'24		morning set	10351 Apr 05 03:27	9° Υ 22'01	
greatest brilliancy	10350 Apr 12 14:33	10° Υ 26'42	-0.6m	morning sec	10351 Apr 18 08:35	0°8	
morning set	10350 Apr 25 17:38	0° 8 16'40	-0.0111	max. Earth dist.	10351 Apr 10 08:35 10351 Apr 20 02:12	2° 8 42'55	1.45493 AU
morning set	10350 Apr 25 17:38 10350 Apr 25 13:18	0°8		max. Latin dist.	10331 Apr 20 02.12	2 04233	1.43493 AU
Fauth 4:-4	-		1 44624 ATT		10251 4 21 12.27	40957107	2004117
max. Earth dist.	10350 May 07 08:44	18° 8 25'10	1.44634 AU	superior conj	10351 Apr 21 12:27	4° 8 57'07	
	1005036 10 00 55	2501 25002	201215	minimum elong	10351 Apr 21 05:43	4° 8 30'44	2*04*11
superior conj	10350 May 12 00:55	25° 8 53'02		evening rise	10351 May 06 18:41	29° 8 11'41	
minimum elong	10350 May 12 01:30	25° 8 55'22	2°13'18		10351 May 07 06:41	Π °0	
	10350 May 14 13:59	Π °0		greatest brilliancy	10351 May 12 23:34	9° Ⅱ 11′05	-0.9m
evening rise	10350 May 25 17:26	18° Ⅲ 30′02		asc. node	10351 May 23 03:24	24° ∏ 38′07	
	10350 Jun 01 13:29	0		evening max el	10351 May 27 11:41	29° ∏ 49'32	18°36'11
asc. node	10350 Jun 05 06:19	5° © 59'22			10351 May 27 15:55	0 \circ ∞	
evening max el	10350 Jun 12 23:20	16° © 15'42	18°11'21	retrograde	10351 Jun 03 00:18	3° 5 22'41	
retrograde	10350 Jun 19 08:03	19° © 36'55		evening set	10351 Jun 06 05:25	2° 5 24'09	
evening set	10350 Jun 22 05:15	18° © 53'03			10351 Jun 09 02:45	30° Ŗ Ⅱ	
inferior conj	10350 Jun 28 06:45	13° © 34'13	2°44'19	inferior conj	10351 Jun 11 21:35	26° Ⅱ 48'34	3°09'25
minimum elong	10350 Jun 28 09:10	13° 5 27'30	2°43'20	minimum elong	10351 Jun 11 22:57	26° Ⅱ 44′23	3°08'47
min. Earth dist.	10350 Jun 30 22:03	10°9540'13	0.63356 AU	min. Earth dist.	10351 Jun 13 22:04	24° Ⅲ 21'36	0.65269 AU
morning rise	10350 Jul 04 11:30	7° 5 21'06		morning rise	10351 Jun 17 15:39	20° Ⅱ 29'11	
desc. node	10350 Jul 09 04:59	4°959'42		direct	10351 Jun 24 04:23	17° Ⅱ 45'32	
direct	10350 Jul 11 04:42	4°9546'38		desc. node	10351 Jun 26 02:03	17° ∏ 57'51	
morning max el	10350 Jul 25 03:07	12° © 49'19	27°46'47	morning max el	10351 Jul 07 13:34	25° I 39'07	27°04'15
morning max cr	10350 Aug 07 20:37	0°Ω	2/ 404/	morning max ci	10351 Jul	0° ©	27 0413
	10350 Aug 07 20:37 10350 Aug 25 15:32	0° m)			10351 Jul 11 13:09 10351 Aug 01 09:24	0°N	
morning sat	10350 Aug 28 18:17	6° Mp 06'48		morning sat	•	19° Ω 26'47	
morning set	•			morning set	10351 Aug 12 04:38		1 22704 ATT
asc. node	10350 Sep 01 06:11	13° Mp 16'25	1 22455 444	max. Earth dist.	10351 Aug 16 13:28	28° Ω 05'36	1.33704 AU
max. Earth dist.	10350 Sep 02 19:51	16° Mp 34'50	1.32455 AU	1	10351 Aug 17 11:54	0° Mp	
				asc. node	10351 Aug 19 03:02	3° TD 22'00	
superior conj	10350 Sep 05 13:37	22° Mp 27'54	0°41'47				
minimum elong	10350 Sep 05 11:49	22° Mp 18'07	0°41'19	superior conj	10351 Aug 20 15:51	6° Mp 34′40	0°15'08
	10350 Sep 09 00:39	0∘ ⊽		minimum elong	10351 Aug 20 15:05	6° Mg 30′37	0°14'45
evening rise	10350 Sep 12 11:25	7° ჲ 28'03		behind sun begin	10351 Aug 20 12:50	6° Mp 18′50	
	10350 Sep 24 03:53	0° M ₊		behind sun end	10351 Aug 20 17:19	6° Mp 42′26	
desc. node	10350 Oct 05 02:56	14°M40'32		evening rise	10351 Aug 27 22:02	22° Mp 00'27	
evening max el	10350 Oct 05 18:42	15° M ₊19'28	23°24'51		10351 Aug 31 19:03	0∘ ত	
retrograde	10350 Oct 19 05:24	22°M01'45		evening max el	10351 Sep 17 08:42	25° ₽ 31'02	21°46'18
evening set	10350 Oct 23 12:33	21°M21'35		desc. node	10351 Sep 22 00:10	29° ≙ 16′05	
min. Earth dist.	10350 Oct 30 04:34	18°ML13'48	0.55460 AU		10351 Sep 23 06:38	0° M ₊	
inferior conj	10350 Oct 31 22:50	17° M -11'47	-5°44'42	retrograde	10351 Sep 29 19:46	1°M42'52	
minimum elong	10350 Oct 31 22:03	17° M 12'56	5°44'22	evening set	10351 Oct 02 16:52	1°M24'11	
morning rise	10350 Nov 09 09:22	13°M19'31		<i>5</i>	10351 Oct 06 20:09	30° ₽ Ω	
direct	10350 Nov 12 06:56	12°M59'06		inferior conj	10351 Oct 10 20:03	27° £ 26'41	-5°10'45
morning max el	10350 Nov 23 01:17	18°M04'21	20°25'38	minimum elong	10351 Oct 11 17:35	27° ⊆ 38'14	
asc. node	10350 Nov 28 06:28	24°M08'15	20 23 30	min. Earth dist.	10351 Oct 11 09:17		0.54674 AU
use. Houe	10350 Nov 28 06.28 10350 Dec 02 03:18	0° √		morning rise	10351 Oct 11 11.44 10351 Oct 20 02:56	27 ≥ 3449 23° ⊆ 38'50	0.27017 AU
ai				•			
morning set	10350 Dec 11 17:10	18° ∡ '08'55		direct	10351 Oct 23 17:11	23° Ω 10'39	21050101
	10350 Dec 17 10:57	0°₹		morning max el	10351 Nov 04 23:38	28° ♀ 59'30	21~59'01
	10050 = 11111	20-7	10000	_	10351 Nov 06 00:29	0°M	
superior conj	10350 Dec 19 06:11		1°26'41	asc. node	10351 Nov 15 03:25	12°M03'18	
minimum elong	10350 Dec 19 08:32	3° る 52'21	1°26'58		10351 Nov 24 17:34	0° ∡	
max. Earth dist.	10350 Dec 24 15:12	14° る 17'43	1.36357 AU	morning set	10351 Nov 26 03:20	2° х 56′05	

superior conj	10351 Dec 03 06:16	18° ∡ °02'58	1°36'44	morning max el	10352 Oct 16 12:56	9° £ 17'26	23°45'14
minimum elong	10351 Dec 03 07:29	18° ∡ °09′19	1°37'09		10352 Oct 31 15:24	0° M	
max. Earth dist.	10351 Dec 07 04:44	26° х 11′54	1.34505 AU	asc. node	10352 Nov 01 00:20	0°M39'55	
	10351 Dec 09 02:09	ರ∘ರ		morning set	10352 Nov 09 15:02	17° M 44'19	
evening rise	10351 Dec 11 12:56	4° る 47'13			10352 Nov 15 06:53	0° ∡ ¹	
desc. node	10351 Dec 18 22:28	18° ろ 18'18					
	10351 Dec 26 01:05	0° ≈		superior conj	10352 Nov 16 12:29	2° х 40'41	1°40'00
evening max el	10352 Jan 15 14:23	26° ≈ 34'42	26°53'37	minimum elong	10352 Nov 16 12:29	2° х 40'41	1°40'25
	10352 Jan 19 12:59	0° ∀		max. Earth dist.	10352 Nov 19 02:01	8° ∡ 11'13	1.33048 AU
retrograde	10352 Jan 28 19:38	3° ¥ 55'40		evening rise	10352 Nov 24 02:24	18° ∡ ³34'18	
evening set	10352 Feb 04 09:10	1° ∺ 21'39			10352 Nov 30 01:13	0°ಕ	
	10352 Feb 05 22:29	30°R≈		desc. node	10352 Dec 04 19:31	8° る 24'13	
min. Earth dist.	10352 Feb 08 09:19	27°≈24'58			10352 Dec 19 06:53	0° ≈	
inferior conj	10352 Feb 10 10:20	25°≈03'20		evening max el	10352 Dec 28 02:56	9°≈57'49	27°25'24
minimum elong	10352 Feb 10 10:42	25°≈02'17		retrograde	10353 Jan 10 17:51	17°≈20'14	
transit middle	10352 Feb 10 10:42	25°≈02'17	0°12'50	evening set	10353 Jan 17 15:25	14°≈48'08	O (417(ATT
transit begin	10352 Feb 10 08:55	25°≈07'26 24°≈57'08		min. Earth dist.	10353 Jan 21 10:51	11°≈23'33	0.64176 AU
transit end	10352 Feb 10 12:28			inferior conj	10353 Jan 23 23:21	8°≈44'49 8°≈38'14	
asc. node morning rise	10352 Feb 11 02:26 10352 Feb 16 13:25	24°≈17'00 19°≈26'35		minimum elong asc. node	10353 Jan 24 01:51 10353 Jan 27 23:36	8°≈38°14 4°≈56'41	1°18'22
direct	10352 Feb 10 13.23 10352 Feb 19 09:07	19 ≈20 33 18°≈43'04		morning rise	10353 Jan 27 23:30 10353 Jan 30 14:11	3°≈22'23	
morning max el	10352 Feb 19 09:07 10352 Feb 25 19:07	22°≈06'56	18°10'33	direct	10353 Jan 30 14:11 10353 Feb 02 01:45	2°≈51'18	
morning max ci	10352 Mar 03 02:18	0° ∺	18 10 33	morning max el	10353 Feb 02 01:45	6°≈12'03	17°50'36
morning set	10352 Mar 15 16:19	19° ¥ 49'42		morning max er	10353 Feb 06 12:25 10353 Feb 24 09:54	0° ₩	17 30 30
desc. node	10352 Mar 15 10:19	20°) 15'28		morning set	10353 Feb 25 09:41	1° ¥ 40′38	
dese. node	10352 Mar 22 00:05	0°Υ		desc. node	10353 Mar 02 19:30	10°) (46'41	
	10302 1/141 22 00:00	• 1		desc. node	10505 1144 02 17.50	10 /(10 11	
superior conj	10352 Mar 30 18:56	13° Y ′54'42	-1°36'09	superior conj	10353 Mar 10 14:51	23°) €35'13	-0°55'53
minimum elong	10352 Mar 30 09:27	13° Y °17′27	1°35'17	minimum elong	10353 Mar 10 08:44	23° ¥ 10′34	0°54'56
max. Earth dist.	10352 Apr 01 22:11	17° Y °15′32	1.45608 AU		10353 Mar 14 15:02	$0^{\circ}\Upsilon$	
	10352 Apr 10 02:15	0° 8		max. Earth dist.	10353 Mar 15 17:24	1° Y '44'24	1.44982 AU
evening rise	10352 Apr 15 21:18	9° 8 00'40		evening rise	10353 Mar 26 10:05	18° Y 22'35	
greatest brilliancy	10352 Apr 27 20:13	27° 8 26'36	-0.7m		10353 Apr 03 01:39	9° 8	
	10352 Apr 29 13:13	Π °0		evening max el	10353 Apr 22 23:27	27° 8 11'10	20°15'36
asc. node	10352 May 09 00:31	12° Ⅲ 37'49		asc. node	10353 Apr 25 21:41	29° 8 46'18	
evening max el	10352 May 09 20:13	13° Ⅱ 29'14	19°18'09		10353 Apr 26 05:19	0°Щ	
retrograde	10352 May 16 21:06	17° Ⅱ 26'55		retrograde	10353 Apr 30 19:48	1° Ⅱ 43'41	
evening set	10352 May 20 10:32	16° Ⅱ 13'00		evening set	10353 May 04 18:17	0° Ⅱ 14'12	
inferior conj	10352 May 25 20:49	10° Ⅲ 22'17			10353 May 05 01:28	30°₹ ႘	2012150
minimum elong	10352 May 25 21:00	10° Ⅱ 21'43		inferior conj	10353 May 10 01:37		3°13'59
min. Earth dist.	10352 May 27 06:14	8° Ⅱ 33'27	0.66783 AU	minimum elong	10353 May 10 00:43	24° 8 13'10	3°13'32
morning rise direct	10352 May 31 07:02 10352 Jun 06 10:43	4° Ⅲ 01'42 1° Ⅱ 19'46		min. Earth dist. morning rise	10353 May 10 20:46	23° 8 04'48 17° 8 51'36	0.67849 AU
desc. node	10352 Jun 10 10.43	3° Д 03'24		direct	10353 May 15 06:54 10353 May 20 22:49	17 8 31 36	
morning max el	10352 Jun 19 00:10	8° П 50'21	25°56'07	desc. node	10353 May 20 22:49 10353 May 29 20:03	19° 8 46'27	
morning max ci	10352 Jul 15 00:10	0°95	23 3007	morning max el	10353 Jun 01 09:53	22° 8 12'50	24°32'07
	10352 Jul 23 21:48	0° Ω		morning max or	10353 Jun 08 05:06	0°П	21 32 07
morning set	10352 Jul 25 01:34	2° Ω 07'00			10353 Jun 28 21:34	0°®	
max. Earth dist.	10352 Jul 28 20:41	9° Ω 15'27	1.35435 AU	morning set	10353 Jul 07 04:33	13°956'04	
				max. Earth dist.	10353 Jul 10 19:27	20°\$23'00	1.37542 AU
superior conj	10352 Aug 03 10:14	20° Ω 15'11	-0°15'20		10353 Jul 15 23:33	$0^{\circ}\Omega$	
minimum elong	10352 Aug 03 11:09	20° Ω 19'51	0°15'29				
behind sun begin	10352 Aug 03 09:28	20° Ω 11'16		superior conj	10353 Jul 17 17:37	3° Ω 21′54	-0°48'09
behind sun end	10352 Aug 03 12:51	20° Ω 28′28		minimum elong	10353 Jul 17 20:46	3° Ω 37'06	0°48'00
asc. node	10352 Aug 04 23:53	23° Ω 27′01		asc. node	10353 Jul 22 20:48	13° Ω 28′03	
	10352 Aug 08 04:04	0° ™		evening rise	10353 Jul 26 08:08	20° Ω 24'07	
evening rise	10352 Aug 11 05:45	6°Mp21'15			10353 Jul 31 06:16	0° m)	
	10352 Aug 24 06:43	0∘ ⊽		evening max el	10353 Aug 12 00:56	17° m 41'42	19°16'15
evening max el	10352 Aug 29 09:54	6° ₽ 13'00	20°21'13	retrograde	10353 Aug 21 06:53	22° m 17'20	
desc. node	10352 Sep 07 21:26	11° ≏ 33'03		evening set	10353 Aug 23 03:07	22°m/07'09	
retrograde	10352 Sep 09 08:16	11° ≏ 38'35		desc. node	10353 Aug 25 18:41	21° Mp 19'45	
evening set	10352 Sep 11 08:34	11° Ω 28'21	20.4212	inferior conj	10353 Aug 31 16:55	17° m 57'40	
inferior conj	10352 Sep 20 10:50	7° Ω 30'50		minimum elong	10353 Aug 31 12:02	18° Mp 05'46	1°48'40
minimum elong	10352 Sep 20 01:26	7° Ω 44'35		min. Earth dist.	10353 Sep 03 09:00	16° TD 11'50	0.55884 AU
min. Earth dist.	10352 Sep 21 20:27		0.54815 AU	morning rise	10353 Sep 08 18:08	13° TD 19'15	
morning rise	10352 Sep 28 17:39 10352 Oct 03 02:12	3° Ω 26'05 2° Ω 45'14		direct	10353 Sep. 28 00:46	12°Mp17'49	75°70'55
direct	10332 Oct 03 02:12	∠ == 43 14		morning max el	10353 Sep 28 00:46	19° Mp 26'36	23 28 33

	10252 Oat 06 22:26	0∘ ⊽		transit middle	10254 Aug 12 10:22	29° Ω 05'46	0.03106
asc. node	10353 Oct 06 23:26 10353 Oct 18 21:14	0 <u>≈</u> 19° Ω 47'59		transit begin	10354 Aug 12 19:33 10354 Aug 12 16:01	29°Ω12'36	0 03 00
asc. node	10353 Oct 18 21:14 10353 Oct 23 22:30	0°M		transit end	10354 Aug 12 10.01 10354 Aug 12 23:05	$28^{\circ} \Omega 58'55$	
morning set	10353 Oct 25 22:30 10353 Oct 25 02:33	2°M28'52		desc. node	10354 Aug 12 15:55	29° Ω 12'48	
morning set	10333 001 23 02.33	2 1102032		min. Earth dist.	10354 Aug 16 02:40		0.57672 AU
superior conj	10353 Oct 31 22:26	17° M 26'35	1°37'04	morning rise	10354 Aug 20 10:44	23°Ω50'08	0.57072710
minimum elong	10353 Oct 31 21:22	17°M20'43	1°37'20	direct	10354 Aug 26 09:06	22°Ω21'04	
max. Earth dist.	10353 Nov 02 06:15	20°M21'46	1.32055 AU	morning max el	10354 Sep 09 17:12	29° Ω 56'07	26°52'50
man. Bartin diot.	10353 Nov 06 17:29	0° ⊼	1.52000 110	morning man er	10354 Sep 09 18:48	0° m)	20 0200
evening rise	10353 Nov 08 00:56	2° х 44′24			10354 Sep 30 21:36	0∘ ⊽	
desc. node	10353 Nov 21 16:37	28° × 05'41		asc. node	10354 Oct 05 18:06	9° ₽ 19'08	
	10353 Nov 22 20:55	0° ح		morning set	10354 Oct 09 12:13	17° ≏ 05'17	
evening max el	10353 Dec 10 12:47	22°る50'20	27°27'59	Č	10354 Oct 15 09:54	0°M₊	
C	10353 Dec 22 15:57	0° ≈					
retrograde	10353 Dec 24 08:59	0° ≈ 07'56		superior conj	10354 Oct 16 10:04	2°M14'27	1°28'24
•	10353 Dec 26 01:18	30°Rる		minimum elong	10354 Oct 16 08:14	2°M04'14	1°28'26
evening set	10353 Dec 31 09:39	27° る 46'34		max. Earth dist.	10354 Oct 16 14:53	2°M41'16	1.31540 AU
min. Earth dist.	10354 Jan 04 02:41	24° る 49'07	0.62250 AU	evening rise	10354 Oct 23 05:51	17°ML10'33	
inferior conj	10354 Jan 07 01:00	22° る 04'39	-2°32'48		10354 Oct 29 14:16	0° ∡ ¹	
minimum elong	10354 Jan 07 06:04	21° る 52'44	2°30'22	desc. node	10354 Nov 08 13:46	17° ∡ 13′10	
morning rise	10354 Jan 14 04:57	16° る 59'24			10354 Nov 17 23:46	8°0	
asc. node	10354 Jan 14 20:46	16° පි 48'13		evening max el	10354 Nov 22 17:27	5° る 00'34	26°56'59
direct	10354 Jan 16 10:42	16° る 36'56		retrograde	10354 Dec 06 15:37	12° る 10'10	
morning max el	10354 Jan 23 05:38	20° る 04'17	17°48'19	evening set	10354 Dec 13 12:08	10° る 09'14	
	10354 Jan 30 14:52	0°≈		min. Earth dist.	10354 Dec 17 07:57	7° る 29'47	0.60158 AU
morning set	10354 Feb 08 01:51	14° ≈ 36′40		inferior conj	10354 Dec 20 11:51	4° る 54'11	-3°47'41
	10354 Feb 16 20:26	0° ∀		minimum elong	10354 Dec 20 19:13	4° る 39'02	3°44'48
desc. node	10354 Feb 17 16:18	1°) €25'03		morning rise	10354 Dec 28 04:56	0° る 09'04	
					10354 Dec 28 20:46	30°₽ ⋌	
superior conj	10354 Feb 19 10:31	4°) 24′12		direct	10354 Dec 30 08:11	29° ∡ ′51'34	
minimum elong	10354 Feb 19 09:15	4°) 18′53	0°12'48		10354 Dec 31 19:06	0°ප	
behind sun begin	10354 Feb 19 03:53	3° ¥ 56′10		asc. node	10355 Jan 01 17:53	0° る 14'43	
behind sun end	10354 Feb 19 14:38	4°) 41'33		morning max el	10355 Jan 06 19:18	3° る 34'29	18°04'51
max. Earth dist.	10354 Feb 26 09:35	15° ¥ 54'00	1.43694 AU	morning set	10355 Jan 22 10:30	28° る 18'56	
evening rise	10354 Mar 06 00:03	27° ¥ 56′01			10355 Jan 23 08:11	0° ≈	
	10354 Mar 07 08:07	0° Υ					
	10354 Mar 27 20:53	0°8		superior conj	10355 Feb 01 06:42	16° ≈ 22'31	0°24'51
evening max el	10354 Apr 05 21:09	10° 8 54'17	21°25'32	minimum elong	10355 Feb 01 08:37	16°≈31'05	0°24'54
asc. node	10354 Apr 12 18:53	15° 8 48'38		desc. node	10355 Feb 04 13:08	22°≈07'10	1 41006 411
retrograde	10354 Apr 14 18:11	16° 8 07'43		max. Earth dist.	10355 Feb 08 21:41	29°≈32'26	1.41886 AU
evening set	10354 Apr 19 02:46	14° 8 22'46	2050120		10355 Feb 09 04:17	0°) (
inferior conj minimum elong	10354 Apr 24 09:35 10354 Apr 24 07:54	8° と 07'32 8° と 13'24	2°58'30 2°57'58	evening rise	10355 Feb 14 04:46 10355 Feb 28 11:13	8° 升 13'05 0° Υ	
min. Earth dist.	10354 Apr 24 07.34 10354 Apr 24 15:28	7° 8 47'04	0.68464 AU	evening max el	10355 Feb 28 11.15 10355 Mar 19 14:20	24° Υ 39'50	22042120
morning rise	10354 Apr 29 12:49	1° 8 53'07	0.06404 AU	evening max er	10355 Mar 26 18:56	0° 8	22 43 26
morning risc	10354 Apr 29 12:49 10354 May 02 14:10	1 O 33 07		retrograde	10355 Mar 29 14:38	0° 8 35'02	
direct	10354 May 04 15:35	29° Υ '39'10		asc. node	10355 Mar 30 16:06	0° 8 29'33	
uncer	10354 May 04 19:35	0°8		use. Houe	10355 Apr 01 06:02	30°RY	
morning max el	10354 May 14 19:53	5° 8 41'43	23°02'14	evening set	10355 Apr 01 00:02	28° Y '35'07	
desc. node	10354 May 16 16:58	7° 8 40'38		inferior conj	10355 Apr 08 18:41	22° Υ 11'22	2°33'05
dese. node	10354 Jun 02 13:50	0°II		minimum elong	10355 Apr 08 16:33	22° Y ′18'45	2°32'25
morning set	10354 Jun 18 08:14	24° Ⅱ 39'32		min. Earth dist.	10355 Apr 08 12:03	22° Y ′34'23	0.68633 AU
8-11	10354 Jun 21 12:24	0°ತಾ		morning rise	10355 Apr 13 22:36	16° Y ′02'33	
max. Earth dist.	10354 Jun 22 16:03	1° 9 58'24	1.39829 AU	direct	10355 Apr 18 11:51	14° Y ′09'35	
				morning max el	10355 Apr 27 09:31	19° Ƴ 19'47	21°35'34
superior conj	10354 Jun 30 09:58	15° © 44'48	-1°20'56	desc. node	10355 May 03 13:51	26° Y ′26'45	
minimum elong	10354 Jun 30 15:20	16° © 09'30			10355 May 06 07:15	0°8	
Č	10354 Jul 07 23:50	$0^{\circ}\Omega$			10355 May 26 17:47	0°II	
asc. node	10354 Jul 09 17:43	3° £ 20′32		morning set	10355 May 29 09:15	4° Ⅱ 10′08	
evening rise	10354 Jul 10 02:02	4° Ω 00′18		max. Earth dist.	10355 Jun 04 17:26	14° Ⅱ 26′07	1.42023 AU
evening max el	10354 Jul 26 03:21	29° Ω 54'15	18°32'32				
	10354 Jul 26 05:42	0° m/		superior conj	10355 Jun 12 06:44	27° Ⅲ 13'41	-1°49'45
retrograde	10354 Aug 02 23:33	3°M 49'38		minimum elong	10355 Jun 12 13:06	27° II 41'22	1°49'38
evening set	10354 Aug 05 00:51	3° m 34'20			10355 Jun 13 20:50	0 \circ \odot	
	10354 Aug 11 15:09	30°₽ Ω		evening rise	10355 Jun 23 07:39	17° © 00'31	
inferior conj	10354 Aug 12 19:40	29° Ω 05'32		asc. node	10355 Jun 26 14:41	23° © 00'10	
minimum elong	10354 Aug 12 19:33	29° Ω 05'46	0°03'06		10355 Jun 30 13:44	$0^{\circ}\Omega$	

	10255 I1 00 12.07	120 0 41100	1,000,010,0		10256 I 20 12.02	200612127	
evening max el	10355 Jul 09 13:07	12° Ω 41′08	18°09'09	retrograde	10356 Jun 28 13:02	29°513'37	
retrograde	10355 Jul 16 10:53	16° Ω 11'31		evening set	10356 Jul 01 05:41	28°937'32	2020150
evening set	10355 Jul 18 19:46	15° Ω 47'14	1001150	inferior conj	10356 Jul 07 14:15	23°528'37	2°20'58
inferior conj	10355 Jul 25 19:49	10° Ω 57'34	1°21'59	minimum elong	10356 Jul 07 17:01	23° © 21'27	2°19'47
minimum elong	10355 Jul 25 22:10	10° Ω 52'13	1°20'48	min. Earth dist.	10356 Jul 10 12:54	20° © 26'57	0.62116 AU
min. Earth dist.	10355 Jul 29 03:18	7° Ω 59'19	0.59857 AU	morning rise	10356 Jul 14 02:14	17° © 22'21	
desc. node	10355 Jul 30 13:07	6° Ω 49'57		desc. node	10356 Jul 16 10:16	15° © 59'15	
morning rise	10355 Aug 01 21:33	5° Ω 11'38		direct	10356 Jul 20 19:00	14° © 58'40	
direct	10355 Aug 08 08:40	3° £ 13′06		morning max el	10356 Aug 03 22:39	23° © 00'39	27°56'35
morning max el	10355 Aug 22 16:43	11° Ω 05′29	27°43'54		10356 Aug 10 03:36	0 $^{\circ}$ Ω	
	10355 Sep 06 10:59	0° m ∕			10356 Aug 29 17:00	0° m y	
asc. node	10355 Sep 22 14:55	29° Mp 06'20		morning set	10356 Sep 06 18:41	15° m 32'42	
	10355 Sep 23 01:18	0∘ ⊽		asc. node	10356 Sep 08 11:43	19° m 04'26	
morning set	10355 Sep 23 18:14	1° ≏ 28′13		max. Earth dist.	10356 Sep 12 06:30	27° m 07'40	1.31967 AU
max. Earth dist.	10355 Sep 30 00:15	15° ≏ 00'03	1.31510 AU		10356 Sep 13 14:10	0∘ ⊽	
	-						
superior conj	10355 Sep 30 21:31	16° ≏ 57'58	1°14'18	superior conj	10356 Sep 14 06:59	1° ≏ 32'07	0°55'04
minimum elong	10355 Sep 30 19:18	16° ≏ 45'39	1°14'05	minimum elong	10356 Sep 14 04:52	1° ≏ 20'30	0°54'40
8	10355 Oct 06 19:16	0° M ,		evening rise	10356 Sep 21 01:59	16° £ 24'13	
evening rise	10355 Oct 07 14:51	1°ML45'37		evening rise	10356 Sep 27 17:37	0°M	
evening rise	10355 Oct 22 16:53	0° ∡ 7		desc. node	10356 Oct 12 08:08	22°M45'44	
desc. node	10355 Oct 26 10:57	5° ∡ ³32'38		evening max el	10356 Oct 16 03:13	26°M49'20	24°22'20
		16° ∡ 18'45	25°52'29	evening max er		20 11€4920 0° √ 1	24 22 20
evening max el	10355 Nov 04 14:15		25-52-29	. 1	10356 Oct 19 21:38		
retrograde	10355 Nov 18 11:53	23° 🖈 20'33		retrograde	10356 Oct 29 20:32	3° ∡ ¹42'02	
evening set	10355 Nov 24 18:09	21° х 48'36		evening set	10356 Nov 03 23:55	2° ∡ 743'38	
min. Earth dist.	10355 Nov 29 02:52	19° ∡ 12'56	0.58078 AU		10356 Nov 09 09:27	30°RM₁	
inferior conj	10355 Dec 02 04:20	17° ∡ 02'19		min. Earth dist.	10356 Nov 09 14:08	29°M52'53	0.56263 AU
minimum elong	10355 Dec 02 12:00		4°52'56	inferior conj	10356 Nov 12 00:21	28°M22'15	
morning rise	10355 Dec 10 08:16	12° ₹ 39'48		minimum elong	10356 Nov 12 03:59	28°M16'34	5°38'01
direct	10355 Dec 12 13:49	12° ₹ 23'53		morning rise	10356 Nov 20 10:11	24°M21'23	
asc. node	10355 Dec 19 14:56	15° ∡ 14'15		direct	10356 Nov 23 00:03	24°M03'45	
morning max el	10355 Dec 21 01:37	16° ₰ 31'20	18°41'57	morning max el	10356 Dec 02 20:58	28° M 45′10	19°41'19
	10355 Dec 30 14:36	0°ප			10356 Dec 04 02:35	0° ∡ 7	
morning set	10356 Jan 06 06:27	12° る 31'06		asc. node	10356 Dec 05 11:57	1° ∡ ³34'23	
				morning set	10356 Dec 20 09:59	27° ∡ ¹02'37	
superior conj	10356 Jan 14 23:13	29° る 17'29	0°55'19		10356 Dec 21 21:03	0° ට	
minimum elong	10356 Jan 15 02:18	29° ප 31'57	0°55'20				
_							
	10356 Jan 15 08:17	0° ≈		superior coni	10356 Dec 28 07:15	12° る 55'43	1°17'31
max. Earth dist.	10356 Jan 15 08:17		1.39756 AU	superior conj minimum elong	10356 Dec 28 07:15 10356 Dec 28 10:06	12°る55'43 13°る09'46	
max. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32	12° ≈ 29'16	1.39756 AU	minimum elong	10356 Dec 28 10:06	13° る 09'46	1°17'41
desc. node	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59	12°≈29'16 12°≈48'46	1.39756 AU		10356 Dec 28 10:06 10357 Jan 03 11:32	13°පි09'46 24°පි46'15	
	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18	12°≈29'16 12°≈48'46 19°≈25'01	1.39756 AU	minimum elong max. Earth dist.	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20	13°♂09'46 24°♂46'15 0°≈	1°17'41
desc. node	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50	12°≈29'16 12°≈48'46 19°≈25'01 0°¥	1.39756 AU	minimum elong max. Earth dist.	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49	13°る09'46 24°る46'15 0°≈ 1°≈31'22	1°17'41
desc. node evening rise	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43	12°≈29'16 12°≈48'46 19°≈25'01 0° 升 0° Υ		minimum elong max. Earth dist.	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53	13°ත09'46 24°ත46'15 0°≈ 1°≈31'22 3°≈26'24	1°17'41
desc. node evening rise evening max el	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37	12°≈29'16 12°≈48'46 19°≈25'01 0°¥ 0°Y 8°Y27'30	1.39756 AU 24°03'50	minimum elong max. Earth dist. evening rise desc. node	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥	1°17'41 1.37554 AU
desc. node evening rise evening max el retrograde	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52	12°≈29'16 12°≈48'46 19°≈25'01 0°¥ 0°Y 8°Y27'30 15°Y00'05		minimum elong max. Earth dist. evening rise desc. node evening max el	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥ 22°¥16'28	1°17'41
desc. node evening rise evening max el retrograde asc. node	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Ψ 8° Ψ27'30 15° Ψ00'05 13° Ψ36'41		minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥ 22°¥16'28 29°¥17'26	1°17'41 1.37554 AU
evening rise evening max el retrograde asc. node evening set	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 17 15:34	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Ψ 8° Ψ27'30 15° Ψ00'05 13° Ψ36'41 12° Ψ46'29	24°03'50	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥ 22°¥16'28 29°¥17'26 26°¥52'34	1°17'41 1.37554 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 17 15:34 10356 Mar 22 08:21	12°≈29'16 12°≈48'46 19°≈25'01 0° ℋ 0° Υ 8° Υ 27'30 15° Υ 00'05 13° Υ 36'41 12° Υ 46'29 7° Υ 20'56	24°03'50 0.68361 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥ 22°¥16'28 29°¥17'26 26°¥52'34 25°¥12'10	1°17'41 1.37554 AU 25°19'59
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 17 15:34 10356 Mar 22 08:21 10356 Mar 23 03:01	12°≈29'16 12°≈48'46 19°≈25'01 0°¥ 0°Y 8°Y27'30 15°Y00'05 13°Y36'41 12°Y46'29 7°Y20'56 6°Y17'43	24°03'50 0.68361 AU 1°58'17	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥ 22°¥16'28 29°¥17'26 26°¥52'34 25°¥12'10 22°¥01'56	1°17'41 1.37554 AU 25°19'59 0.67672 AU
evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 17 15:34 10356 Mar 22 08:21 10356 Mar 23 03:01 10356 Mar 23 00:52	12°≈29'16 12°≈48'46 19°≈25'01 0°¥ 0°Y 8°Y27'30 15°Y00'05 13°Y36'41 12°Y46'29 7°Y20'56 6°Y17'43 6°Y25'00	24°03'50 0.68361 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0° ¥ 22° ¥ 16'28 29° ¥ 17'26 26° ¥ 52'34 25° ¥ 12'10 22° ¥ 01'56 20° ¥ 23'15	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 17 15:34 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Ψ 8° Ψ27'30 15° Ψ00'05 13° Ψ36'41 12° Ψ46'29 7° Ψ20'56 6° Ψ17'43 6° Ψ25'00 0° Ψ15'46	24°03'50 0.68361 AU 1°58'17	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43 10357 Mar 07 07:04	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0° ₭ 22° ₭16'28 29° ₭17'26 26° ₭52'34 25° ₭12'10 22° ₭01'56 20° ₭23'15 20° ₭28'37	1°17'41 1.37554 AU 25°19'59 0.67672 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Υ 8° Υ 27'30 15° Υ 00'05 13° Υ 36'41 12° Υ 46'29 7° Υ 20'56 6° Υ 17'43 6° Υ 25'00 0° Υ 15'46 30° ℞ ₩	24°03'50 0.68361 AU 1°58'17	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0° ₭ 22° ₭16'28 29° ₭17'26 26° ₭52'34 25° ₭12'10 22° ₭01'56 20° ₭23'15 20° ₭28'37 14° ₭29'32	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20
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evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 17 15:34 10356 Mar 22 08:21 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13 10356 Mar 28 18:53 10356 Apr 01 10:18 10356 Apr 05 08:27 10356 Apr 19 10:40 10356 Apr 29 03:37 10356 May 07 12:43 10356 May 17 02:09	12°≈29'16 12°≈48'46 19°≈25'01 0°	24°03'50 0.68361 AU 1°58'17 1°57'36 20°18'59 1.43841 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44 10357 Mar 16 09:37 10357 Mar 23 10:15 10357 Apr 05 07:36 10357 Apr 06 07:27 10357 Apr 16 13:19 10357 Apr 22 03:31	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0° ₭ 22° ₭16'28 29° ₭17'26 26° ₭52'34 25° ₭12'10 22° ₭01'56 20° ₭23'15 20° ₭28'37 14° ₭29'32 13° ₭19'21 17° ₭11'05 0° ጥ 4° Ŷ11'59 5° Ŷ41'14 21° Ŷ20'24 0° ₭	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20 1°13'50 19°16'23 -0.7m
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13 10356 Apr 01 10:18 10356 Apr 01 10:18 10356 Apr 09 05:56 10356 Apr 19 10:40 10356 Apr 29 03:37 10356 May 07 12:43 10356 May 17 02:09 10356 May 18 11:05	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Υ 8° Υ27'30 15° Υ00'05 13° Υ36'41 12° Υ46'29 7° Υ20'56 6° Υ17'43 6° Υ25'00 0° Υ15'46 30° ℝ ₩ 28° ₩44'50 0° Υ 3° Υ09'47 15° Υ50'19 0° ℧ 12° ℧45'37 27° ℧47'36 0° Π	24°03'50 0.68361 AU 1°58'17 1°57'36 20°18'59 1.43841 AU -2°08'54	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44 10357 Mar 16 09:37 10357 Mar 23 10:15 10357 Apr 02 11:09 10357 Apr 05 07:36 10357 Apr 06 07:27 10357 Apr 16 13:19 10357 Apr 22 03:31 10357 Apr 29 16:48	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0°¥ 22°¥16'28 29°¥17'26 26°¥52'34 25°¥12'10 22°¥01'56 20°¥23'15 20°¥28'37 14°¥29'32 13°¥19'21 17°¥11'05 0°Y 4°Y11'59 5°Y41'14 21°Y20'24 0°℧ 11°℧48'24	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20 1°13'50 19°16'23 -0.7m 1.45082 AU -2°11'48
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13 10356 Apr 01 10:18 10356 Apr 01 10:18 10356 Apr 09 05:56 10356 Apr 19 10:40 10356 Apr 29 03:37 10356 May 07 12:43 10356 May 17 02:09 10356 May 18 11:05	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Υ 8° Υ27'30 15° Υ00'05 13° Υ36'41 12° Υ46'29 7° Υ20'56 6° Υ17'43 6° Υ25'00 0° Υ15'46 30° ℝ ₩ 28° ₩44'50 0° Υ 3° Υ09'47 15° Υ50'19 0° ℧ 12° ℧45'37 27° ℧47'36 0° Π	24°03'50 0.68361 AU 1°58'17 1°57'36 20°18'59 1.43841 AU -2°08'54	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44 10357 Mar 16 09:37 10357 Mar 23 10:15 10357 Apr 02 11:09 10357 Apr 05 07:36 10357 Apr 06 07:27 10357 Apr 16 13:19 10357 Apr 22 03:31 10357 Apr 29 16:48	13°♂09'46 24°♂46'15 0°≈ 1°≈31'22 3°≈26'24 0° ₭ 22° ₭16'28 29° ₭17'26 26° ₭52'34 25° ₭12'10 22° ₭01'56 20° ₭23'15 20° ₭23'15 20° ₭29'32 13° ₭19'21 17° ₭11'05 0° ♥ 4° ♥11'59 5° ♥41'14 21° ♥20'24 0° ₭ 11° ₺48'24	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20 1°13'50 19°16'23 -0.7m 1.45082 AU -2°11'48
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 22 08:21 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13 10356 Apr 01 10:18 10356 Apr 01 10:18 10356 Apr 09 05:56 10356 Apr 09 05:56 10356 Apr 19 10:40 10356 May 07 12:43 10356 May 17 02:09 10356 May 18 11:05	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Υ 8° Υ27'30 15° Υ00'05 13° Υ36'41 12° Υ46'29 7° Υ20'56 6° Υ17'43 6° Υ25'00 0° Υ15'46 30° ₹ ₩ 28° ₩44'50 0° Υ 3° Υ09'47 15° Υ50'19 0° ႘ 12° ႘45'37 27° ႘47'36 0° Π 7° Π40'32 7° Π57'06	24°03'50 0.68361 AU 1°58'17 1°57'36 20°18'59 1.43841 AU -2°08'54	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44 10357 Mar 16 09:37 10357 Mar 23 10:15 10357 Apr 02 11:09 10357 Apr 05 07:36 10357 Apr 06 07:27 10357 Apr 16 13:19 10357 Apr 22 03:31 10357 Apr 29 16:48	13°る09'46 24°る46'15 0°≈ 1°≈31'22 3°≈26'24 0° ₭ 22° ₭16'28 29° ₭17'26 26° ₭52'34 25° ₭12'10 22° ₭01'56 20° ₭23'15 20° ₭23'15 20° ₩23'15 17° ₭11'05 0° ❤ 4° Ŷ11'59 5° Ŷ41'14 21° Ŷ20'24 0° ₭ 11° ₺48'24	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20 1°13'50 19°16'23 -0.7m 1.45082 AU -2°11'48
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 22 08:21 10356 Mar 23 00:52 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13 10356 Apr 01 10:18 10356 Apr 01 10:18 10356 Apr 09 05:56 10356 Apr 09 05:56 10356 Apr 19 10:40 10356 Apr 29 03:37 10356 May 17 02:09 10356 May 18 11:05	12°≈29'16 12°≈48'46 19°≈25'01 0° ₩ 0° Υ 8° Υ27'30 15° Υ00'05 13° Υ36'41 12° Υ46'29 7° Υ20'56 6° Υ17'43 6° Υ25'00 0° Υ15'46 30° ℝ ₩ 28° ₩44'50 0° Υ 3° Υ09'47 15° Υ50'19 0° ₩ 12° ₩45'37 27° ₩47'36 0° Π 7° Π40'32 7° Π57'06 29° Π14'08	24°03'50 0.68361 AU 1°58'17 1°57'36 20°18'59 1.43841 AU -2°08'54	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44 10357 Mar 16 09:37 10357 Mar 23 10:15 10357 Apr 02 11:09 10357 Apr 05 07:36 10357 Apr 06 07:27 10357 Apr 16 13:19 10357 Apr 29 16:48 10357 May 03 01:41 10357 May 03 01:41 10357 May 03 01:51 10357 May 11 01:51 10357 May 11 11:31	13°る09'46 24°る46'15 0°≈ 1°≈31'22 3°≈26'24 0° ₭ 22° ₭16'28 29° ₭17'26 26° ₭52'34 25° ₭12'10 22° ₭01'56 20° ₭23'15 20° ₭28'37 14° ₭29'32 13° ₭19'21 17° ₭11'05 0° ሦ 4° Ŷ11'59 5° Ŷ41'14 21° Ŷ20'24 0° ₭ 11° ₭48'24 17° ₭08'07 16° ₺57'47 0° Ⅱ	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20 1°13'50 19°16'23 -0.7m 1.45082 AU -2°11'48
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10356 Jan 15 08:17 10356 Jan 22 05:32 10356 Jan 22 09:59 10356 Jan 26 06:18 10356 Feb 01 17:50 10356 Feb 22 17:43 10356 Mar 01 04:37 10356 Mar 12 07:52 10356 Mar 16 13:19 10356 Mar 22 08:21 10356 Mar 23 03:01 10356 Mar 23 00:52 10356 Mar 28 10:13 10356 Mar 28 10:13 10356 Apr 01 10:18 10356 Apr 01 10:18 10356 Apr 09 05:56 10356 Apr 09 05:56 10356 Apr 19 10:40 10356 Apr 29 03:37 10356 May 07 12:43 10356 May 17 02:09 10356 May 18 11:05	12°≈29'16 12°≈48'46 19°≈25'01 0°	24°03'50 0.68361 AU 1°58'17 1°57'36 20°18'59 1.43841 AU -2°08'54	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	10356 Dec 28 10:06 10357 Jan 03 11:32 10357 Jan 06 08:20 10357 Jan 07 04:49 10357 Jan 08 06:53 10357 Jan 24 22:16 10357 Feb 11 17:49 10357 Feb 23 20:56 10357 Mar 01 16:47 10357 Mar 03 10:32 10357 Mar 06 02:14 10357 Mar 07 08:43 10357 Mar 07 07:04 10357 Mar 12 21:44 10357 Mar 16 09:37 10357 Mar 23 10:15 10357 Apr 02 11:09 10357 Apr 05 07:36 10357 Apr 06 07:27 10357 Apr 16 13:19 10357 Apr 29 16:48 10357 May 03 01:41	13°る09'46 24°る46'15 0°≈ 1°≈31'22 3°≈26'24 0° ¥ 22° ¥16'28 29° ¥17'26 26° ¥52'34 25° ¥12'10 22° ¥01'56 20° ¥23'15 20° ¥23'15 20° ¥11'05 0° ♀ 4° ♀11'59 5° ♀41'14 21° ♀20'24 0° ₺ 11° ₺48'24 17° ₺08'07 16° ₺57'47 0° Ⅲ 10° Ⅲ30'34	1°17'41 1.37554 AU 25°19'59 0.67672 AU 1°14'20 1°13'50 19°16'23 -0.7m 1.45082 AU -2°11'48

evening max el	10357 Jun 05 15:49	9° 5 20'31	18°19'41	greatest brilliancy	10358 May 07 05:01	5° Ⅱ 09'57	-0.8m
retrograde	10357 Jun 12 01:17	12° © 45'36		asc. node	10358 May 17 05:51	19° Ⅱ 42'39	
evening set	10357 Jun 15 01:43	11° © 55'47		evening max el	10358 May 20 02:50	22° I 57'51	18°52'02
inferior conj	10357 Jun 20 22:47	6°529'34	2°57'11	retrograde	10358 May 26 19:50	26° Ⅱ 40′07	
minimum elong	10357 Jun 21 00:48	6°523'42	2°56'21	evening set	10358 May 30 04:20	25° Ⅱ 35'17	
min. Earth dist.	10357 Jun 23 07:57	3°545'07	0.64207 AU	inferior conj	10358 Jun 04 17:38	19° ∏ 53'18	3°14'55
morning rise	10357 Jun 26 22:39	0° © 12'39		minimum elong	10358 Jun 04 18:30	19° Ⅱ 50′36	3°14'23
	10357 Jun 27 05:03	30°RⅡ		min. Earth dist.	10358 Jun 06 11:47	17° Ⅱ 41'14	0.65966 AU
desc. node	10357 Jul 03 07:23	27° Ⅲ 33'10		morning rise	10358 Jun 10 08:00	13° Ⅱ 32'48	
direct	10357 Jul 03 14:28	27° Ⅱ 32'53		direct	10358 Jun 16 17:25	10° Ⅱ 48'17	
	10357 Jul 10 16:55	0 \circ \odot		desc. node	10358 Jun 20 04:27	11° Ⅱ 29'12	
morning max el	10357 Jul 17 08:22	5° © 34'08	27°32'24	morning max el	10358 Jun 29 19:03	18° Ⅱ 34'32	26°37'44
	10357 Aug 04 22:09	$0 {\circ} \Omega$			10358 Jul 09 10:22	0 \circ \odot	
morning set	10357 Aug 21 11:02	29° Ω 11'13			10358 Jul 28 22:08	$0^{\circ}\Omega$	
	10357 Aug 21 20:54	0° m		morning set	10358 Aug 04 16:12	12° Ω 15'51	
max. Earth dist.	10357 Aug 26 05:31	8° m 52'31	1.32924 AU	max. Earth dist.	10358 Aug 08 18:24	20° Ω 11'39	1.34387 AU
asc. node	10357 Aug 26 08:32	9° 11 08'16				_	
				superior conj	10358 Aug 13 11:45	29° Ω 47'08	0°02'38
superior conj	10357 Aug 29 12:29	15° m 50'25	0°30'59	minimum elong	10358 Aug 13 11:38	29° Ω 46′28	0°02'20
minimum elong	10357 Aug 29 11:03	15° mp 42'41	0°30'33	behind sun begin	10358 Aug 13 05:52	29° Ω 16'37	
	10357 Sep 05 02:04	0° ⊽		behind sun end	10358 Aug 13 17:24	0° m 16'23	
evening rise	10357 Sep 05 13:19	1° Ω 00'00		asc. node	10358 Aug 13 05:22	29° Ω 14'02	
	10357 Sep 21 15:41	0°M	22041156		10358 Aug 13 14:14	0° m)	
evening max el	10357 Sep 27 14:04	6°M56'45	22°41'56	evening rise	10358 Aug 20 22:59	15° m/28'03	
desc. node	10357 Sep 29 05:22	8°M27'03		·	10358 Aug 28 06:44	0° ™	21007152
retrograde	10357 Oct 10 17:04	13°M29'03		evening max el	10358 Sep 09 08:15	17° £ 18'33	21°07'52
evening set	10357 Oct 14 08:41	12°M59'50	0.55017.411	desc. node	10358 Sep 16 02:38	22° £ 06'57	
min. Earth dist.	10357 Oct 21 22:02	9°M35'53 8°M56'06	0.55017 AU	retrograde	10358 Sep 21 05:00	23° £ 11'38 22° £ 58'02	
inferior conj	10357 Oct 23 01:57	9°M02'19	-5°36'53	evening set	10358 Sep 23 14:52 10358 Oct 02 18:16	19° £ 02'33	1920106
minimum elong morning rise	10357 Oct 22 21:36 10357 Oct 31 12:15	5°M07'55	3 30 33	inferior conj minimum elong	10358 Oct 02 18.16 10358 Oct 02 08:33	19 ≗ 02 33 19° £ 16'14	4°36'34
direct	10357 Oct 31 12:15	4°M44'53		min. Earth dist.	10358 Oct 02 08.53	19 ⊆ 10 14 18° ⊆ 46'08	0.54618 AU
morning max el	10357 Nov 05 10:10 10357 Nov 15 02:54	10°M08'39	21°03'11	morning rise	10358 Oct 03 03:34 10358 Oct 11 02:39	15° ⊆ 40'08	0.54018 AC
asc. node	10357 Nov 13 02:54 10357 Nov 22 08:54	18° M 58'47	21 03 11	direct	10358 Oct 11 02:39	13 — 07 42 14° Ω 36'43	
asc. node	10357 Nov 28 20:54	0° ∡ 7		morning max el	10358 Oct 13 00:30	20° £ 45′10	22°43'21
morning set	10357 Nov 26 26:54 10357 Dec 04 18:21	11° х 45'26		morning max ci	10358 Nov 04 15:23	0°M	22 43 21
morning sec	10307 200 01 10.21	11 7. 10 20		asc. node	10358 Nov 09 05:50	7°M12'54	
superior conj	10357 Dec 12 02:29	27° ₹ 04'47	1°31'49	morning set	10358 Nov 19 05:22	26°M33'18	
minimum elong	10357 Dec 12 04:22		1°32'10	morning sec	10358 Nov 20 20:12	0° ⊼ ¹	
	10357 Dec 13 12:40	0°ප				• •	
max. Earth dist.	10357 Dec 16 20:40	6° る 40'39	1.35519 AU	superior conj	10358 Nov 26 05:29	11° ∡ ³34'29	1°38'54
evening rise	10357 Dec 20 21:24	14° පි 24'46		minimum elong	10358 Nov 26 06:10	11° ∡ ³38′09	1°39'20
desc. node	10357 Dec 26 03:50	23° る 56'04		max. Earth dist.	10358 Nov 29 13:15	18° ∡ ³34'41	1.33830 AU
	10357 Dec 29 17:16	0° ≈		evening rise	10358 Dec 04 04:18	27° ∡ ¹55'17	
	10358 Jan 19 16:22	0°)			10358 Dec 05 05:57	ರ°0	
evening max el	10358 Jan 25 07:11	6°) €03'08	26°24'42	desc. node	10358 Dec 13 00:50	14° る 12'30	
retrograde	10358 Feb 07 04:56	13°) €20'40			10358 Dec 22 22:57	0° ≈	
evening set	10358 Feb 13 12:20	10°) 48′35		evening max el	10359 Jan 07 20:37	19° ≈ 38'55	27°10'31
min. Earth dist.	10358 Feb 17 15:36	6°) 32′18	0.66589 AU	retrograde	10359 Jan 21 06:55	27° ≈ 01'32	
asc. node	10358 Feb 18 07:46	5°) 43′39		evening set	10359 Jan 28 00:06	24° ≈ 27'44	
inferior conj	10358 Feb 19 09:51	4°) (24′14		min. Earth dist.	10359 Jan 31 22:09	20° ≈ 44'47	0.65148 AU
minimum elong	10358 Feb 19 09:17	4° ∺ 25'57	0°21'19	inferior conj	10359 Feb 03 04:03	18° ≈ 14'49	-0°40'34
	10358 Feb 23 11:08	30°R ≈		minimum elong	10359 Feb 03 05:15	18° ≈ 11'30	0°39'42
morning rise	10358 Feb 25 07:07	28° ≈ 40′31		asc. node	10359 Feb 05 04:59	16° ≈ 02'58	
direct	10358 Feb 28 08:11	27°≈48′20		morning rise	10359 Feb 09 11:53	12° ≈ 43'33	
	10358 Mar 05 10:09	0° ∀		direct	10359 Feb 12 03:51	12°≈05'46	
morning max el	10358 Mar 06 21:27	1° 升 19′20	18°29'47	morning max el	10359 Feb 18 13:16	15° ≈ 27'21	17°59'56
desc. node	10358 Mar 24 04:14	25° ¥ 52'15			10359 Mar 01 02:19	0° ∀	
	10358 Mar 26 18:55	0°Υ		morning set	10359 Mar 08 11:05	12°) €02'50	
morning set	10358 Mar 27 09:37	0° Y 58′09		desc. node	10359 Mar 11 01:00	16°) 17'16	
	10050 / 15 00 5	260000	105460		10359 Mar 19 12:04	0 ° $\mathbf{\gamma}$	
superior conj	10358 Apr 12 08:54	26° Y 04'01			10250 M 22 10 05	50001 405	1010/50
minimum elong	10358 Apr 12 00:08		1°54'00	superior conj	10359 Mar 22 19:05	5° Y 14'27	
max. Earth dist.	10358 Apr 12 11:08	26° Y 12'43	1.45626 AU	minimum elong	10359 Mar 22 10:31	4° Y 40'29 10° Y 45'11	1°18'57
- -	10358 Apr 14 21:16	0°8		max. Earth dist.	10359 Mar 26 06:59		1.45429 AU
evening rise	10358 Apr 28 02:40	20° 8 47′59		evening rise	10359 Apr 07 21:45	0° 8 20'46	
	10358 May 03 22:07	0°П			10359 Apr 07 16:22	0° 8	

greatest brilliancy	10359 Apr 21 17:11	21° 8 20'12	-0.7m	minimum elong	10360 Mar 01 20:26	15° ¥ 05'49	0°36'49
	10359 Apr 27 19:49	0°Щ		max. Earth dist.	10360 Mar 08 01:41	25° ¥ 09'33	1.44515 AU
evening max el	10359 May 03 09:20	6° Ⅱ 39′09	19°40'54		10360 Mar 11 03:03	0° Y	
asc. node	10359 May 04 03:02	7° Ⅱ 22'21		evening rise	10360 Mar 17 09:07	9° Y 43'02	
retrograde	10359 May 10 17:37	10° Ⅱ 50′09			10360 Mar 30 21:30	0° 8	
evening set	10359 May 14 10:50	9°Ⅱ29'38		evening max el	10360 Apr 15 10:13	20° 8 21'32	20°44'03
inferior conj	10359 May 19 19:33	3° Ⅱ 33'16	3°17'53	asc. node	10360 Apr 20 00:13	24° 8 04'37	
minimum elong	10359 May 19 19:15	3° ∏ 34'17	3°17'28	retrograde	10360 Apr 23 16:20	25° 8 10'31	
min. Earth dist.	10359 May 20 22:50	2° Ⅱ 02'27	0.67298 AU	evening set	10360 Apr 27 19:06	23° 8 34'11	
	10359 May 22 13:11	30°R₩		inferior conj	10360 May 03 01:56	17° 8 25'06	3°08'40
morning rise	10359 May 25 03:20	27° 8 13'27		minimum elong	10360 May 03 00:40	17° 8 29'27	3°08'12
direct	10359 May 31 02:25	24° 8 34'55		min. Earth dist.	10360 May 03 15:15	16° 8 39'08	0.68171 AU
desc. node	10359 Jun 07 01:27	27° 8 19'31		morning rise	10360 May 08 06:02	11° 8 08'23	
	10359 Jun 10 07:26	Π °0		direct	10360 May 13 16:28	8° 8 44'03	
morning max el	10359 Jun 12 05:03	1° Ⅱ 50′30	25°21'41	desc. node	10360 May 23 22:25	14° 8 35'22	
	10359 Jul 03 12:04	0°©		morning max el	10360 May 24 14:35	15° 8 15'32	23°54'04
morning set	10359 Jul 18 06:08	24° © 35'57			10360 Jun 05 16:18	0° I I	
TO ALLEY	10359 Jul 21 04:54	0°N	1 2 (207 11)		10360 Jun 25 10:41	0.22 0.22	
max. Earth dist.	10359 Jul 21 21:22	1° Ω 16'54	1.36297 AU	morning set	10360 Jun 28 23:47	5°958'15	1 20510 ATT
	10250 I1 20 01.57	13° Ω 14'55	0920102	max. Earth dist.	10360 Jul 02 18:45	12° © 34'18	1.38510 AU
superior conj	10359 Jul 28 01:57	$13^{\circ} \Omega 14^{\circ} 33^{\circ}$	-0°29'05		10260 I-I 10 02-20	26° © 04'11	1002114
minimum elong asc. node	10359 Jul 28 03:46 10359 Jul 31 02:16	$13^{\circ} 0.23^{\circ} 19^{\circ} \Omega 18'13$	0-2905	superior conj	10360 Jul 10 03:28 10360 Jul 10 07:36	26°\$23'48	1°02'14
evening rise	10359 Jul 31 02.16 10359 Aug 05 04:46	29° Ω 42'26		minimum elong	10360 Jul 10 07.36 10360 Jul 12 04:54	20 3 23 48 0° Ω	1 02 00
evening rise	10359 Aug 05 04:40	0° m)		asc. node	10360 Jul 12 04.34 10360 Jul 16 23:11	9° Ω 16'11	
evening max el	10359 Aug 03 08:14 10359 Aug 22 15:33	28° Mg 20'46	19°50'58	evening rise	10360 Jul 19 03:58	13° Ω 35'14	
evening max ci	10359 Aug 22 13:33 10359 Aug 24 11:19	0° ⊽	19 30 38	evening rise	10360 Jul 28 00:10	0°m)	
retrograde	10359 Sep 01 20:03	ა <u>—</u> 3° ჲ 24'07		evening max el	10360 Aug 04 11:48	10° Mp 08'42	18°55'03
desc. node	10359 Sep 01 20:03 10359 Sep 02 23:53	3° £ 20′26		retrograde	10360 Aug 13 02:11	14° m) 25'52	10 22 03
evening set	10359 Sep 02 23:35 10359 Sep 03 17:15	3° £ 14'31		evening set	10360 Aug 14 23:57	14° Mp 14'01	
evening sec	10359 Sep 11 08:47	30°R ™)		desc. node	10360 Aug 19 21:09	12° mg 10'55	
inferior conj	10359 Sep 12 15:34	29° m 13'19	-2°56'42	inferior conj	10360 Aug 23 05:57	9° m 56'22	-1°02'44
minimum elong	10359 Sep 12 07:44	29° m) 25'20	2°53'57	minimum elong	10360 Aug 23 03:17	10° m) 01'04	
min. Earth dist.	10359 Sep 14 15:52	27° m 59'31	0.55171 AU	min. Earth dist.	10360 Aug 26 06:05	7° m) 49'24	0.56573 AU
morning rise	10359 Sep 20 20:35	24° m 55'58		morning rise	10360 Aug 31 03:23	5° m) 02'07	
direct	10359 Sep 25 13:46	24° m 07'15		direct	10360 Sep 05 15:36	3° m/49'55	
	10359 Oct 08 07:52	0∘ ⊽		morning max el	10360 Sep 19 21:26	11° m) 10'25	26°08'02
morning max el	10359 Oct 09 08:08	0° ჲ 55'30	24°30'37	-	10360 Oct 04 09:11	0∘ ⊽	
asc. node	10359 Oct 27 02:44	26° ჲ 04'39		asc. node	10360 Oct 12 23:36	15° ≏ 23'37	
	10359 Oct 29 04:16	0° M		morning set	10360 Oct 18 04:11	26° ≙ 03'17	
morning set	10359 Nov 03 17:14	11°M21'14			10360 Oct 20 00:04	0° M	
superior conj	10359 Nov 10 13:34	26°M16′59	1°39'29	superior conj	10360 Oct 25 00:28	11° M 04'29	1°34'04
minimum elong	10359 Nov 10 13:06	26°M14'22	1°39'51	minimum elong	10360 Oct 24 23:02	10°M56'33	1°34'15
	10359 Nov 12 06:33	0° ∡		max. Earth dist.	10360 Oct 25 20:46	12°M57'01	1.31782 AU
max. Earth dist.	10359 Nov 12 14:04	0° ∡ ′40'43	1.32573 AU	evening rise	10360 Oct 31 23:36	26° ™ 11'41	
evening rise	10359 Nov 17 22:04	11° ∡ ′53'57			10360 Nov 02 19:45	0° ∡ 7	
	10359 Nov 27 11:32	0°る		desc. node	10360 Nov 15 19:02	23° ∡ 738'11	
desc. node	10359 Nov 29 21:55	4° る 09'35			10360 Nov 19 23:02	0°る	0.501.0155
	10359 Dec 18 12:43	0° ≈	25020126	evening max el	10360 Dec 02 16:26	15° る 27'10	27°18'52
evening max el	10359 Dec 21 08:34	2°≈51'44	27°30'26	retrograde	10360 Dec 16 13:22	22°る41'12	
retrograde	10360 Jan 04 01:56	10°≈11'42		evening set	10360 Dec 23 13:35	20°る27'05	0.61200 ATT
evening set	10360 Jan 11 01:36	7°≈43'18	0.62201 ATT	min. Earth dist.	10360 Dec 27 06:53	17°る39'00 14°る56'22	0.61380 AU
min. Earth dist.	10360 Jan 14 19:47	4°≈30'57	0.63391 AU	inferior conj	10360 Dec 30 08:23	14°る36'22 14°る42'42	
inferior conj	10360 Jan 17 12:39	1°≈48'34		minimum elong	10360 Dec 30 14:32	9° る 59'32	3-02-00
minimum elong	10360 Jan 17 16:13 10360 Jan 19 09:07	1°≈39'37 30°Ŗる	1 40 13	morning rise direct	10361 Jan 06 18:03 10361 Jan 08 22:23	9° る 39'32	
asc. node	10360 Jan 23 02:08	30 KO 27° ろ 08'54		asc. node	10361 Jan 08 22:25	9° る 39'32	
morning rise	10360 Jan 24 08:55	27 008 34 26°る32'48		morning max el	10361 Jan 15 23:00	9 03932 13° で 11'58	17°53'00
direct	10360 Jan 26 17:48	26°る05'42		morning max ci	10361 Jan 27 08:10	0°≈	1, 5500
morning max el	10360 Feb 02 06:53	20 ප 0342 29° පි 27'55	17°47'24	morning set	10361 Jan 31 14:48	0 ∞ 7°≈41'52	
	10360 Feb 02 19:31	0°≈	- · · · · - ·				
morning set	10360 Feb 18 14:58	24°≈24'14		superior conj	10361 Feb 11 06:49	26° ≈ 41'45	0°03'45
	10360 Feb 21 20:56	0°) €		minimum elong	10361 Feb 11 07:11	26° ≈ 43'18	0°03'59
desc. node	10360 Feb 25 21:49	6° ¥ 52'06		behind sun begin	10361 Feb 10 23:02	26°≈08'06	
				behind sun end	10361 Feb 11 15:19	27°≈18'24	
superior conj	10360 Mar 02 00:24	15° ¥ 22'07	-0°37'34	desc. node	10361 Feb 11 18:38	27° ≈ 32'37	
•							

	10361 Feb 13 05:05	0° \		minimum elong	10362 Jan 24 14:52	9° ≈ 17'57	0°38'47
max. Earth dist.	10361 Feb 18 16:25	9° ₩ 08'04	1.42978 AU	desc. node	10362 Jan 29 15:26	18° ≈ 14'55	0 30 17
evening rise	10361 Feb 25 04:02	19°) (31'49		max. Earth dist.	10362 Feb 01 02:04	22° ≈ 27'29	1.40999 AU
<i>y</i> 21	10361 Mar 03 23:08	0° Ƴ		evening rise	10362 Feb 05 17:10	0°) 11'18	
	10361 Mar 25 12:48	0°B		Ü	10362 Feb 05 14:25	0°) €	
evening max el	10361 Mar 29 05:40	4° 8 04'59	21°57'59		10362 Feb 25 10:21	0° Y	
asc. node	10361 Apr 06 21:24	9° 8 34'20		evening max el	10362 Mar 11 21:11	17° Y ′50′50	23°17'48
retrograde	10361 Apr 07 14:08	9° 8 36'44		retrograde	10362 Mar 22 09:29	24° Y 03'34	
evening set	10361 Apr 12 03:23	7° 8 45'05		asc. node	10362 Mar 24 18:36	23° Y '36'20	
inferior conj	10361 Apr 17 10:35	1° 8 25'37	2°48'54	evening set	10362 Mar 27 10:08	21° Y 57'41	
minimum elong	10361 Apr 17 08:40	1° 8 32'19	2°48'18	inferior conj	10362 Apr 01 19:34	15° Y '31'03	2°19'29
min. Earth dist.	10361 Apr 17 10:59	1° 8 24'14	0.68585 AU	minimum elong	10362 Apr 01 17:22	15° Ƴ 38'38	2°18'46
	10361 Apr 18 11:16	30° ₹Ƴ		min. Earth dist.	10362 Apr 01 07:46	16° Ƴ 11'43	0.68562 AU
morning rise	10361 Apr 22 13:48	25° Y 13'29		morning rise	10362 Apr 07 00:33	9° Y 24'49	
direct	10361 Apr 27 10:41	23° Y ′08'27		direct	10362 Apr 11 08:01	7° Ƴ 41'19	
morning max el	10361 May 07 01:51	28° Y 48'39	22°24'36	morning max el	10362 Apr 19 18:05	12° Y ′31'38	21°01'27
	10361 May 08 05:25	9° 8		desc. node	10362 Apr 27 16:10	21° Y 57'27	
desc. node	10361 May 10 19:20	2° 8 53'51			10362 May 03 11:40	0° 8	
	10361 May 30 09:01	Π $^{\circ}0$		morning set	10362 May 20 06:41	25° 8 13'59	
morning set	10361 Jun 09 16:19	16° Ⅱ 11'19			10362 May 23 07:14	Π $^{\circ}0$	
max. Earth dist.	10361 Jun 14 16:59	24° Ⅲ 31'21	1.40784 AU	max. Earth dist.	10362 May 27 20:49	7° Ⅲ 20'31	1.42849 AU
	10361 Jun 17 21:52	0 \circ					
				superior conj	10362 Jun 03 23:04	19° Ⅱ 07'56	
superior conj	10361 Jun 22 12:01	8° © 05'14	-1°33'56	minimum elong	10362 Jun 04 04:59	19° Ⅲ 33′02	1°59'30
minimum elong	10361 Jun 22 18:05	8° © 32'27	1°33'40		10362 Jun 10 05:53	0 \circ	
evening rise	10361 Jul 02 17:12	26° © 57'51		evening rise	10362 Jun 15 16:11	9° 5 39'10	
asc. node	10361 Jul 03 20:07	29° 5 04'07		asc. node	10362 Jun 20 17:05	18° © 36'45	
	10361 Jul 04 08:04	0 \circ Ω			10362 Jun 27 16:37	0 \circ Ω	
evening max el	10361 Jul 18 17:46	22° Ω 36′58	18°20'10	evening max el	10362 Jul 02 05:27	5° Ω 35'28	18°05'12
retrograde	10361 Jul 26 03:16	26° Ω 20′16		retrograde	10362 Jul 08 21:15	8° Ω 59'51	
evening set	10361 Jul 28 07:30	26° Ω 01'42		evening set	10362 Jul 11 09:25	8° Ω 30'55	
inferior conj	10361 Aug 04 18:04	21° Ω 23'58	0°36'15	inferior conj	10362 Jul 18 02:26	3° £ 33′13	1°50'02
minimum elong	10361 Aug 04 19:18	21° Ω 21'25	0°35'28	minimum elong	10362 Jul 18 05:10	3° Ω 26'39	1°48'46
desc. node	10361 Aug 06 18:22	19° Ω 43'21		min. Earth dist.	10362 Jul 21 07:10	0° Ω 30′23	0.60823 AU
min. Earth dist.	10361 Aug 08 02:43	18° Ω 37'59	0.58565 AU		10362 Jul 21 20:43	30°Rூ	
morning rise	10361 Aug 12 03:37	15° Ω 54'03		morning rise	10362 Jul 24 22:13	27° © 37'16	
direct	10361 Aug 18 07:58	14°Ω12'23		desc. node	10362 Jul 24 15:33	27° © 48'21	
morning max el	10361 Sep 01 17:04	21° Ω 56'32	27°19'05	direct	10362 Jul 31 12:44	25° © 26'47	
	10361 Sep 08 19:14	0° my			10362 Aug 11 00:09	0° Ω	
	10361 Sep 27 07:40	2ಂ ರ		morning max el	10362 Aug 14 19:28	3° Ω 25'05	27°53'58
asc. node	10361 Sep 29 20:26	5° Ω 02'32			10362 Sep 03 10:05	0° m)	
morning set	10361 Oct 02 12:31	10° ≏ 34'56		morning set	10362 Sep 16 16:26	24° m 50'43	
	10261 0 + 00 12 14	250 2 51121	1022104	asc. node	10362 Sep 16 17:15	24° m 54'58	
superior conj	10361 Oct 09 12:14	25° £ 51'21	1°23'04	E 4 E 4	10362 Sep 19 03:11	0∘ ⊽	1 21/20 411
minimum elong	10361 Oct 09 10:11	25° £ 39'56	1°23'00	max. Earth dist.	10362 Sep 22 14:23	7° ≏ 31'30	1.31638 AU
max. Earth dist.	10361 Oct 09 06:07	25° Ω 17'17	1.31468 AU		10262 S 22 22.05	100 0 21140	1906146
avanina riaa	10361 Oct 11 08:56	0°ጤ 10°ጤ42'14		superior conj	10362 Sep 23 23:05	10° £ 31'48 10° £ 19'25	1°06'46 1°06'28
evening rise	10361 Oct 16 06:29 10361 Oct 26 01:32	10 11642 14 0° √ 1		minimum elong evening rise	10362 Sep 23 20:50 10362 Sep 30 16:36	10 ≅ 1923 25° £ 19'27	1 00 28
desc. node	10361 Nov 02 16:10	12° × ⁷ 27'16		evening rise	10362 Sep 30 10:30	0°M	
evening max el	10361 Nov 14 17:41	27° x 14'50	26°23'11		10362 Oct 02 21:32 10362 Oct 20 06:48	0° ⊼ ¹	
evening max ci	10361 Nov 17 22:41	0°る	20 33 11	desc. node	10362 Oct 20 00:48	0° ∡ 121'34	
retrograde	10361 Nov 28 16:04	4° る 21'52		evening max el	10362 Oct 20 13:21 10362 Oct 27 10:59	8°×12'06	25°16'37
evening set	10361 Dec 05 07:57	2° ට 32'02		retrograde	10362 Nov 10 08:00	15° √ 12'54	23 1037
evening set	10361 Dec 09 05:29	30°R. ₹		evening set	10362 Nov 16 04:03	13° × 10'34	
min. Earth dist.	10361 Dec 09 07:26	29° 🗷 56'22	0.59260 AU	min. Earth dist.	10362 Nov 20 23:05	11° x 3321	0.57252 AU
inferior conj	10361 Dec 05 07:20	27° × ⁷ 29'03		inferior conj	10362 Nov 23 19:42	9° ∡ 18'09	
minimum elong	10361 Dec 12 11:44 10361 Dec 12 19:37	27° х 27°3		minimum elong	10362 Nov 24 02:18	9° × 1007	
morning rise	10361 Dec 20 09:57	22° x 53'44	. 10 10	morning rise	10362 Dec 02 02:51	5°×7'05'04	5 10 15
direct	10361 Dec 22 13:23	22° x ³³ ⁴⁴		direct	10362 Dec 02 02:51	4° ∡ ¹48'57	
asc. node	10361 Dec 26 20:20	23° x ⁷ 46'31		morning max el	10362 Dec 04 10:30	9° × ⁷ 10'15	19°04'21
morning max el	10361 Dec 30 10:04	26° × 29'36	18°18'02	asc. node	10362 Dec 13 17:23	9° × ⁷ 22'49	17 7121
	10362 Jan 02 11:43	0°る	10 10 02		10362 Dec 13 17:23 10362 Dec 27 02:39	0° る	
morning set	10362 Jan 15 04:44	21°る38'00		morning set	10362 Dec 27 02:33 10362 Dec 30 04:21	6° ろ 00'13	
	10362 Jan 19 14:34	0° ≈			10002 200 00 00.21	0 00013	
	van 17 11.5T	₩ : ▼ :		superior conj	10363 Jan 07 11:58	22° る 21'33	1°05'43
superior conj	10362 Jan 24 12:14	9° ≈ 05'57	0°38'47	minimum elong	10363 Jan 07 15:05	22° ろ 36'29	1°05'47
	Zi 12.17	2 . 2 . 3 . 5 . 7	,	viong	01 10.00		,

	10363 Jan 11 13:14	0° ≈		minimum elong	10363 Dec 22 03:45	6° る 27'00	1°24'45
max. Earth dist.	10363 Jan 14 08:25	5°≈05'50	1.38815 AU	max. Earth dist.	10363 Dec 27 15:32	17°る12'35	1.36663 AU
desc. node	10363 Jan 16 12:17	8°≈55'48	1.50015 710	evening rise	10363 Dec 31 10:42	24°る16'21	1.50005710
evening rise	10363 Jan 18 04:00	11° ≈ 48'19		desc. node	10364 Jan 03 09:11	29° る 30'48	
evening rise	10363 Jan 29 08:38	0° ∀		dese. Hode	10364 Jan 03 15:52	0°≈	
	10363 Feb 20 19:44	0° Υ			10364 Jan 23 00:10	0° ₩	
evening max el	10363 Feb 22 10:57	1° Υ '40'23	24°37'13	evening max el	10364 Feb 05 00:24	15° ¥ 30′06	25°49'18
retrograde	10363 Mar 06 01:04	8° Υ 26'23	24 37 13	retrograde	10364 Feb 17 11:55	22°\(\frac{13}{30}\)38'39	23 47 10
evening set	10363 Mar 11 13:50	6° Υ 07'55		evening set	10364 Feb 23 12:51	20°\(\frac{1}{10}\)'20	
asc. node	10363 Mar 11 15:50	6° Υ 03'38		asc. node	10364 Feb 26 13:05	17° ∺ 07'01	
min. Earth dist.	10363 Mar 16 03:26	0° Υ 57'00	0.68118 AU	min. Earth dist.	10364 Feb 27 19:39	15° ¥ 34'24	0.67267 AU
iiiii. Eartii dist.	10363 Mar 16 20:33	30° ₹	0.08118 AC	inferior conj	10364 Feb 29 07:05	13°) (3424	0.07207 AO 0°52'57
inferior conj	10363 Mar 17 03:03	29° ¥ 38'19	1°40'48	minimum elong	10364 Feb 29 05:48	13°) (42'39	0°52'38
minimum elong	10363 Mar 17 03:03	29° X 45'01	1°40'48	_		7°) 52'54	0 32 38
Č		29 X 4301 23° X 39'24	1 40 09	morning rise direct	10364 Mar 05 23:19	6°\(\frac{1}{32}\) 50'35	
morning rise	10363 Mar 22 12:23	23 X 39 24 22° X 17'23			10364 Mar 09 06:31	0 ₹3033 10°¥31'36	18°54'29
direct	10363 Mar 26 07:10	26°\(\frac{1}{26}\)	10050122	morning max el	10364 Mar 16 01:10	29° ¥ 39'12	
morning max el	10363 Apr 02 17:45		19°50'23	greatest brilliancy	10364 Mar 30 03:41		-0.8m
	10363 Apr 05 23:10	0°Υ			10364 Mar 30 09:07	0°Υ 1° 0 0° 4°27	
desc. node	10363 Apr 14 12:59	11° Y 34'08	0.6	desc. node	10364 Mar 31 09:45	1° Υ 34'27	
greatest brilliancy	10363 Apr 15 20:28	13° Y 28'35	-0.6m	morning set	10364 Apr 07 12:42	12° Y 36′20	
	10363 Apr 26 20:26	0° 8			10364 Apr 18 16:39	0° 8	
morning set	10363 Apr 29 05:52	3° 8 40'20		max. Earth dist.	10364 Apr 22 01:05	5° 8 14'45	1.45411 AU
max. Earth dist.	10363 May 10 08:01	20° 8 59'48	1.44454 AU				
				superior conj	10364 Apr 23 23:41	8° 8 17'44	
superior conj	10363 May 15 09:54	29° 8 08'31		minimum elong	10364 Apr 23 17:56	7° 8 55'06	2°06'56
minimum elong	10363 May 15 11:31	29° 8 15'02	2°12'51		10364 May 07 14:28	$\Pi^{\circ}0$	
	10363 May 15 22:37	$\Pi^{\circ}0$		evening rise	10364 May 09 01:07	2° Ⅱ 20′09	
evening rise	10363 May 28 20:11	21° Ⅲ 29′03		asc. node	10364 May 24 11:12	26° Ⅲ 32'56	
	10363 Jun 02 20:29	0°€			10364 May 27 02:36	0°€	
asc. node	10363 Jun 07 14:06	7° © 48'44		evening max el	10364 May 29 07:58	2°528'04	18°31'20
evening max el	10363 Jun 15 19:13	18° © 55'08	18°09'09	retrograde	10364 Jun 04 19:28	5° © 58'45	
retrograde	10363 Jun 22 04:03	22° © 15'40		evening set	10364 Jun 07 23:22	5° © 02'28	
evening set	10363 Jun 25 00:07	21° © 33'49			10364 Jun 13 06:22	30° Ŗ Ⅱ	
inferior conj	10363 Jul 01 03:19	16° © 17'25	2°38'50	inferior conj	10364 Jun 13 16:41	29° Ⅱ 29'09	3°06'42
minimum elong	10363 Jul 01 05:51	16° © 10'30	2°37'47	minimum elong	10364 Jun 13 18:14	29° Ⅲ 24′29	3°06'01
min. Earth dist.	10363 Jul 03 20:37	13° © 20'55	0.63046 AU	min. Earth dist.	10364 Jun 15 19:24	26° Ⅲ 57′21	0.65005 AU
morning rise	10363 Jul 07 09:54	10° © 05'55		morning rise	10364 Jun 19 12:10	23° Ⅲ 10′12	
desc. node	10363 Jul 11 12:43	7° © 56′11		direct	10364 Jun 26 01:48	20° Ⅲ 27'21	
direct	10363 Jul 14 03:14	7° © 33'56		desc. node	10364 Jun 27 09:49	20° Ⅲ 33'24	
morning max el	10363 Jul 28 03:02	15° © 36'26	27°50'27	morning max el	10364 Jul 09 13:30	28° Ⅲ 23′16	27°12'27
5 5	10363 Aug 08 21:42	$0^{\circ}\Omega$			10364 Jul 11 02:35	0ಂತಾ	
	10363 Aug 27 02:20	0° m)			10364 Aug 01 16:46	$0^{\circ}\Omega$	
morning set	10363 Aug 31 13:44	8° m) 44'33		morning set	10364 Aug 14 01:46	22° Ω 10'01	
asc. node	10363 Sep 03 14:04	14° m 55'49		morning see	10364 Aug 18 00:22	0° m)	
max. Earth dist.	10363 Sep 05 17:51	19° m/29'33	1.32310 AU	max. Earth dist.	10364 Aug 18 13:08	1° Mp 05'03	1.33489 AU
max. Earth dist.	10303 вер 03 17.31	17 11/2/33	1.52510710	asc. node	10364 Aug 20 10:53	5° my 01'13	1.55407710
superior conj	10363 Sep 08 07:07	24° m 59'53	0°45'25	ase. node	10304 Mug 20 10.33	3 110 01 13	
minimum elong	10363 Sep 08 07:07	24° m/ 49'30	0°44'59	superior conj	10364 Aug 22 10:19	9° m) 10'11	0°19'27
minimum clong	10363 Sep 08 03:13	0° م	0 44 37	minimum elong	10364 Aug 22 09:20	9° m)05'04	0°19'02
evening rise	10363 Sep 15 04:02	o _ 9° _ 57'31		evening rise	10364 Aug 29 14:58	24° m ₀ 31'24	0 1702
evening rise	10363 Sep 15 04:02	9 <u>=</u> 3/31 0°M		evening rise	10364 Sep 01 06:00	0° ت	
desc. node	10363 Sep 23 08.40 10363 Oct 07 10:35	16°M59'16		avanina may al	-	0 = 28° • 38'29	22°00'17
			22920150	evening max el	10364 Sep 19 11:04		22 00 17
evening max el	10363 Oct 08 22:15	18°M29'31	23°39'59	1 1	10364 Sep 20 22:11	0°M	
retrograde	10363 Oct 22 10:59	25°M14'47		desc. node	10364 Sep 23 07:51	1°M.53'08	
evening set	10363 Oct 26 23:38	24°M30'10	0.55644.477	retrograde	10364 Oct 02 02:42	4°M56'19	
min. Earth dist.	10363 Nov 02 08:27	21°M27'26	0.55644 AU	evening set	10364 Oct 05 04:18	4°M35'19	0.54504.477
inferior conj	10363 Nov 04 07:19	20°M17'47		min. Earth dist.	10364 Oct 13 15:35	0°M52'59	
minimum elong	10363 Nov 04 07:47		5°44'32	inferior conj	10364 Oct 14 03:23	0°M36'28	
morning rise	10363 Nov 12 17:49	16°M23'40		minimum elong	10364 Oct 13 19:57	0°M46'52	5°18'15
direct	10363 Nov 15 13:17	16°MJ04'03			10364 Oct 15 05:31	30° ₹ Ω	
morning max el	10363 Nov 26 01:55		20°13'27	morning rise	10364 Oct 22 13:03	26° ≏ 49'18	
asc. node	10363 Nov 30 14:23	26° ™ 12'22		direct	10364 Oct 26 00:34	26° Ω 22'37	
	10363 Dec 03 05:57	0° ∡ 7			10364 Nov 04 15:04	0° ™	
morning set	10363 Dec 14 10:18	20° ∡ '37'59		morning max el	10364 Nov 07 02:07	2° ™ 04'48	21°44'07
	10363 Dec 18 23:39	0°ප		asc. node	10364 Nov 16 11:21	13°M59'34	
					10364 Nov 25 05:17	0° ∡	
superior conj	10363 Dec 22 01:15	6° ප 14'26	1°24'30	morning set	10364 Nov 27 20:05	5° х 24′04	

minimachame 1064 Dec. 69 675 59 795 7374 14 14 14 14 14 14 14	superior conj	10364 Dec 05 00:11	20° ∡ ³33'35	1°35'39	morning max el	10365 Oct 19 16:21	12° £ 26'56	23°29'11
Contamination Gibb Low Low 1965 1975	minimum elong	10364 Dec 05 01:35	20° х 40′52	1°36'03		10365 Nov 01 21:33	0° M	
Second color	max. Earth dist.	10364 Dec 09 03:48	29° х 05′53	1.34754 AU		10365 Nov 03 08:15	2°M30'32	
Section 1004 1005		10364 Dec 09 14:35	0°ප		morning set	10365 Nov 12 07:39	20°M12'18	
1995 1995	evening rise	10364 Dec 13 09:49				10365 Nov 16 20:32	0° ∡ ⊓	
Second 1935 19 1939 1942 194446 1945 1945 1945 1932 1932 1932 19446 1945	desc. node	10364 Dec 20 06:10	19° ට 55'34					
1006 1006 1006 1007		10364 Dec 26 07:30	0° ≈		superior conj	10365 Nov 19 05:39	5° ₹ 09'32	1°39'55
Part	evening max el	10365 Jan 17 13:50	29° ≈ 13'12	26°46'46	minimum elong	10365 Nov 19 05:49	5° ∡ 10′29	1°40'20
Second 1936 Feb 06 052 3 745995 06028 A 1936 Feb 07 053 1970		10365 Jan 18 09:36	0°) €		max. Earth dist.	10365 Nov 21 23:44	11° ∡ °02'51	1.33232 AU
min. Earth dist. 10365 Feb 10 0539 3979ea min. Earth dist. 10365 Feb 12 0533 2778-03749 -00055	retrograde	10365 Jan 30 17:17	6°) ₹33'44		evening rise	10365 Nov 26 21:41	21° ₹ ¹09'36	
min. Earth dist. 1016 Seb 21 0 60-14 29%=8819 0.808 AU centing max et 0.056 Dec 20 0459 0.924 27*220 0.0354 0.0355 0.0357 0.0	evening set	10365 Feb 06 05:21	3° ¥ 59'53			10365 Dec 01 11:38		
Inferior corp 10365 Feb 1 2 0533 279-83949 -07055 crossing max cl 10365 Dec 31 0237 129-84070 772230 17264070 10365 Dec 31 0237 129-84070 10365 Dec 31 0237 129-84070 10365 Dec 31 0237 129-84070 10365 Dec 31 0237 129-8470 129-847		10365 Feb 10 05:39	30° R ≈		desc. node	10365 Dec 07 03:13		
minimum clong 10365 Feb 12 03-99 279-89-912 070374 retrograde 10366 Jan 13 16-38 209-80710 transit begin 10365 Feb 12 02-47 277-84178 minimum clong 10366 Jan 24 09-09 147-80710 0.64432 AU transit clond 10365 Feb 12 02-47 277-84178 minimum clong 10366 Jan 22 0000 117-8273 1707-858 morning race 10365 Feb 13 07-05 227-80178 minimum clong 10366 Jan 20 0000 578-8533 morning race 10365 Feb 10 0705 227-80178 maximum clong 10366 Jan 20 07-000 578-8543 morning race 10365 Feb 20 0000 227-80178 morning race 10365 Feb 20 0000 227-80178 morning race 10365 Feb 20 0000 227-80178 morning race 10365 Mar 80 0.31 217-8529 desc. node 10365 Mar 80 0.31 desc. node 10365 Mar 80 0.32 desc. node 10365 Mar 80 0.33		10365 Feb 10 06:14	29° ≈ 58'19	0.66028 AU		10365 Dec 20 04:59	0° ≈	
transit middle 1036 Feb 12 05.39 27%=8972 070324 evening set 1036 fan 20 13.09 17%=8972 10.454 24 11	inferior conj	10365 Feb 12 05:33	27° ≈ 39'49		evening max el	10365 Dec 31 02:37	12° ≈ 40′04	27°22'30
Immailed 10365 Feb 12 0247 27%e4778 min. Farh dist. 10366 Jan. 24 090 14**e0110 0.6483 AU Immailed 10365 Feb 12 0919 27%e2553 minimum clong 10366 Jan. 26 2210 11*e0413 1-70915 asc. node 10365 Feb 12 1019 27%e2553 minimum clong 10366 Jan. 26 2210 11*e0413 1-70915 asc. node 10365 Feb 12 1040 24*se4101 18*459 morning max el 10365 Feb 0.2422 27*e0450 morning max el 10365 Feb 0.2422 27*e0450 morning max el 10366 Feb 0.222 07*e morning max el 10366 Feb 0.2428 27*e0450 morning max el 10366 Feb 0.2428 27*e0450 morning max el 10366 Feb 0.2438 3*exe473 17*5229 morning max el 10365 Mar 12 10.22 12*f5209 morning max el 10366 Mar 13 152 17*e0450 morning max el 10366 Mar 13 1036 mar 10*e0450 mar	_	10365 Feb 12 05:39		0°03'34	•	10366 Jan 13 16:38	20° ≈ 03′10	
training and 0.065 Fb 12 08.31 279-81107 minimum on 0.1066 Jan 26 2.00 179-82413 170915 morning rise 0.1065 Fb 10 1010 279-8154 minimum on 0.1066 Fb 0.2 090 579-85928 morning rise 0.1065 Fb 10 070 579-85928 morning rise 0.1066 Mar 10 022 0°H morning rise 0.1066 Fb 10 070 0°H 179-179 morning rise 0.1066 Mar 18 0.210 22°H 50'90 morning rise 0.1066 Mar 18 0.210 0°H 179-179 minimum elong 0.1066 Mar 18 0.210 0°H 179-179 179-		10365 Feb 12 05:39		0°03'34	-			
1985 1985	transit begin	10365 Feb 12 02:47	27° ≈ 47'58				14° ≈ 01′10	0.64432 AU
morning frace 10365 Feb 18 07.05 22*960T18 morning frace 10366 Feb 20 0.00 5*2.5*28 morning max el 10365 Feb 20 0.00 7*2.5*28 morning max el 10366 Feb 20 0.00 7*2.5*29 morning max el 10366 Mar 20 0.00 0.					,			
moming max el 10365 Feb 21 04.06 21%=1542 moming max el 10366 Feb 0 421.35 23%=25% moming max el 10366 Feb 12 107.46 24%=24% 18 1459 moming max el 10366 Feb 12 107.46 8%=2475 175229 desc. node 10366 Mar 18 06.31 21745270 moming set 10366 Mar 18 12.10 22%=25%50 moming set 10366 Mar 18 02.31 24%±257 24%±257 desc. node 10366 Mar 13 32.48 26%±4579 1*0221 minimum nong 10365 Mar 23 08.17 0*°°° desc. node 10366 Mar 13 32.48 26%±4579 1*0221 minimum nong 10366 Apr 03 05.45 17*°71374 1*41277 minimum nong 10366 Apr 04 20.44 19*°74549 1.4636 AU minimum nong 10366 Mar 13 32.48 26%±4579 1*0221 minimum nong 10365 Apr 10 10.04 0*°8 minimum nong 10366 Mar 18 32.24 26%±4579 1*0212 minimum nong 10365 Apr 30 12.54 29*°45376 -0.7m minimum nong 10366 Mar 18 32.24 26%±4579 1*0212 1*1111 1*111		10365 Feb 12 10:19			minimum elong			1°07'58
morning max el 10365 Feb 27 14.44 24°s41'91 88°14'59 morning max el 10366 Feb 04 21.35 8°s26'59 7'52'29 desc. node 10366 Mar 18 06.31 21'H\$52'00 morning set 10366 Feb 25 18.07 0°H\$	morning rise	10365 Feb 18 07:05	22° ≈ 01'18					
Cest code 10365 Mar 18 06.31 27545200 morning set 10366 Feb 21 1807 07% 1752200 morning set 10366 Mar 18 21.10 22*K505 morning set 10366 Mar 28 08.17 07% desc. node 10366 Mar 08 03.17 12*K2157 175220 10366 Mar 18 21.48 27*K2157 175220 10366 Mar 18 22.48 26*K373 175220	direct	10365 Feb 21 04:06	21° ≈ 15'42		morning rise	10366 Feb 02 09:00	5° ≈ 59'28	
desc. node 10365 Mar 18 10.51 21°H 52'00 morning set 10366 Feb 28 10.37 4°H 30'50 morning set 10366 Mar 23 08:17 22°H 52'5 desc. node 10366 Feb 28 10.37 4°H 30'50 4°H 30'50 morning set 10366 Mar 23 08:17 12°H 21'51 morning set 10365 Mar 23 08:17 10°H 21'1	morning max el	10365 Feb 27 14:44		18°14'59		10366 Feb 04 21:35	5° ≈ 26'50	
morning set 10365 Mar 18 21:10 22°H 50°S desc. node		10365 Mar 04 02:22			morning max el	10366 Feb 11 07:46		17°52'29
Superior conj 10365 Mar 23 08:17 0°P°		10365 Mar 18 06:31						
superior conj 10365 Apr 03 0.54.5 1 7°°° 13'14 - 1°41'27 superior conj 10366 Mar 13 12:48 26°* 46'39 - 1°02'21 minimum clong 10366 Apr 04 20:13 16°° 15'55:2 14'038 minimum clong 10366 Mar 13 15:58 26°* 48'13 1°01'23 max. Earth dist. 10366 Apr 11 10:06 0°8 max. Earth dist. 10366 Mar 15 23:26 4°° 10'10 1.4511 PAU evening rise 10365 Apr 30 17:21 29° 15'48 max. Earth dist. 10366 Apr 20 0.25 21°° 79'48 1.28° 15'48 max. Earth dist. 10366 Apr 20 0.25 21°° 79'34 1.28° 15'48 max. Earth dist. 10366 Apr 20 0.25 21°° 79'34 1.28° 15'10 1.28° 15'13 </td <td>morning set</td> <td>10365 Mar 18 21:10</td> <td></td> <td></td> <td>morning set</td> <td>10366 Feb 28 10:37</td> <td></td> <td></td>	morning set	10365 Mar 18 21:10			morning set	10366 Feb 28 10:37		
minimum elong		10365 Mar 23 08:17	0° Ƴ		desc. node	10366 Mar 05 03:17	12° ∺ 21'57	
Max. Earth dist. 10365 Apr 10 1036 Ap	superior conj	10365 Apr 03 05:45	17° Ƴ 13'14	-1°41'27	superior conj	10366 Mar 13 22:48	26° ∺ 45'39	-1°02'21
evening rise	minimum elong	10365 Apr 02 20:13	16° Ƴ 35'52	1°40'38	minimum elong	10366 Mar 13 15:58	26° ¥ 18′13	1°01'23
evening rise 10365 Apr 30 12:24 29°B/3548 evening rise 10366 Apr 40 97:35 21°P/39'48	max. Earth dist.	10365 Apr 04 20:44	19° Ƴ 45'49	1.45636 AU		10366 Mar 15 23:26	0° Y	
Second 10365 Apr 30 12:54 29°84306 -0.7m 10366 Apr 04 07:53 0°8 10366 Apr 04 07:54 14°81502 -0.6m 10366 Apr 13 017:21 13°8160 -0.6m 10366 Apr 13 017:21 18°7103 -0.6m 10366 Apr 13 017:22 -0.6m		10365 Apr 11 10:06	9° 8		max. Earth dist.	10366 Mar 18 16:03	4° Y 16'01	1.45119 AU
asc. node	evening rise	10365 Apr 19 06:45	12° 8 15'48		evening rise	10366 Mar 29 20:45	21° Y 39'48	
evening max el 10365 May 11 08:21 14°II3930 evening max el 10366 Apr 25 21:17 29°B4919 20°06099 evening max el 10366 May 12 17:10 16°II0708 19°1073 10366 Apr 26 01:32 0°II 10366 Apr 28 05:32 1°II5703 1	greatest brilliancy	10365 Apr 30 12:54		-0.7m		10366 Apr 04 07:53	0 \circ 8	
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retrograde 10365 May 19 15.51 20° \$\$\text{\$\tex{	asc. node	10365 May 11 08:21			evening max el	•		20°06'09
cvening set 10365 May 23 03.56 18° H49'10 cvening set 10366 May 03 14.22 4° H16'02 cvening set 10366 May 07 11.25 2° H48'57 cvening set 10366 May 07 11.25 2° H48'57 cvening set 10366 May 10 07.35 30° RV cvening rise 10365 May 28 15.15 12° H59'28 3° 17'21 10366 May 10 07.35 30° RV cvening rise 10365 Jun 09 07.18 3° H50'51 consistency of 10365 Jun 09 07.18 3° H50'51 consistency of 10366 May 10 19.02 26° 846'53 3° 15'21 cvening max el 10365 Jun 14 06:33 5° H21'42 co'730 direct 10366 May 13 16.18 25° 83'44 0.67723 AU cvening max el 10365 Jul 25 07:52 0°\$\(\alpha\) 0°\$\(•	10365 May 12 17:10		19°10'53		10366 Apr 26 01:32		
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minimum elong	evening set	10365 May 23 03:56			retrograde	10366 May 03 14:22		
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evening max el desc. node 10365 Sep 01 10:17 9°£14'37 20°32'39 evening max el 10366 Aug 14 23:24 20°\$\mathbb{m}\$36'37 19°24'34 desc. node 10365 Sep 10 05:09 14°£32'43 retrograde 10366 Aug 24 10:59 25°\$\mathbb{m}\$19'01 retrograde 10365 Sep 12 14:47 14°£47'40 evening set 10366 Aug 26 07:07 25°\$\mathbb{m}\$09'10 evening set 10365 Sep 14 16:54 14°£36'53 desc. node 10366 Aug 28 02:24 24°\$\mathbb{m}\$41'35 inferior conj 10365 Sep 23 19:57 10°£40'16 -3°59'17 inferior conj 10366 Sep 03 23:26 21°\$\mathbb{m}\$02'15 -2°07'49 minimum elong 10365 Sep 23 10:14 10°£54'19 3°56'17 minimum elong 10366 Sep 03 17:43 21°\$\mathbb{m}\$11'29 2°05'45 min. Earth dist. 10365 Sep 25 00:07 9°£59'29 0.54734 AU min. Earth dist. 10366 Sep 06 11:59 19°\$\mathbb{m}\$24'23 0.55676 AU morning rise 10366 Sep 12 01:45 16°\$\mathbb{m}\$29'29	evening rise	•			evening rise			
desc. node		-				-	-	
retrograde 10365 Sep 12 14:47 14°\(\Omega\)47'40 evening set 10366 Aug 26 07:07 25°\(\omega\)09'10 evening set evening set 10365 Sep 14 16:54 14°\(\Omega\)40'15 desc. node 10366 Aug 28 02:24 24°\(\omega\)41'35 inferior conj 10365 Sep 23 19:57 10°\(\Omega\)40'16 -3°59'17 inferior conj 10366 Sep 03 23:26 21°\(\omega\)02'15 -2°07'49 minimum elong 10365 Sep 23 10:14 10°\(\Omega\)54'19 3°56'17 minimum elong 10366 Sep 03 17:43 21°\(\omega\)11'29 2°05'45 min. Earth dist. 10365 Sep 25 00:07 9°\(\Omega\)59'29 0.54734 AU min. Earth dist. 10366 Sep 06 11:59 19°\(\omega\)12'23 0.55676 AU morning rise 10365 Oct 02 03:12 6°\(\Omega\)39'05 morning rise 10366 Sep 12 01:45 16°\(\omega\)29'29	•	-		20°32'39	•	-		19°24'34
evening set 10365 Sep 14 16:54 14°\Omega36'53 desc. node 10366 Aug 28 02:24 24°\mathbb{m}41'35 inferior conj 10365 Sep 23 19:57 10°\Omega40'16 -3°59'17 inferior conj 10366 Sep 03 23:26 21°\mathbb{m}02'15 -2°07'49 minimum elong 10365 Sep 23 10:14 10°\Omega54'19 3°56'17 minimum elong 10366 Sep 03 17:43 21°\mathbb{m}11'29 2°05'45 min. Earth dist. 10365 Sep 25 00:07 9°\Omega59'29 0.54734 AU min. Earth dist. 10366 Sep 06 11:59 19°\mathbb{m}24'23 0.55676 AU morning rise 10365 Oct 02 03:12 6°\Omega39'05 morning rise 10366 Sep 12 01:45 16°\mathbb{m}29'29		=			•	•		
inferior conj 10365 Sep 23 19:57 10°至40'16 -3°59'17 inferior conj 10366 Sep 03 23:26 21°顶02'15 -2°07'49 minimum elong 10365 Sep 23 10:14 10°至54'19 3°56'17 minimum elong 10366 Sep 03 17:43 21°顶11'29 2°05'45 min. Earth dist. 10365 Sep 25 00:07 9°至59'29 0.54734 AU morning rise 10366 Sep 06 11:59 19°顶24'23 0.55676 AU morning rise 10365 Oct 02 03:12 6°至39'05 morning rise 10366 Sep 12 01:45 16°顶29'29	•				•	-	-	
minimum elong 10365 Sep 23 10:14 10° \$\Omega\$54'19 3°56'17 minimum elong 10366 Sep 03 17:43 21° \$\omega\$11'29 2°05'45 min. Earth dist. 10365 Sep 25 00:07 9° \$\Omega\$59'29 0.54734 AU morning rise 10366 Sep 06 11:59 19° \$\omega\$24'23 0.55676 AU morning rise 10366 Sep 12 01:45 16° \$\omega\$29'29	•	-						
min. Earth dist. 10365 Sep 25 00:07 9° ♣59'29 0.54734 AU min. Earth dist. 10366 Sep 06 11:59 19° № 24'23 0.55676 AU morning rise 10365 Oct 02 03:12 6° ♣39'05 morning rise 10366 Sep 12 01:45 16° № 29'29		-				-		
morning rise 10365 Oct 02 03:12 6° ♣39'05 morning rise 10366 Sep 12 01:45 16° № 29'29	•	-			-	-	-	
		=		0.54734 AU		-		0.55676 AU
direct 10365 Oct 06 08:54 6° \(\overline{\Phi}\)00'31 direct 10366 Sep 17 03:13 15° \(\overline{\Phi}\)31'28					•	-		
	direct	10365 Oct 06 08:54	6° £ 00'31		direct	10366 Sep 17 03:13	15° Mp 31'28	

	10266 0-4 01 02.50	220 m, 25122	25914110	4:4	10267 A 20 11.42	250 0 2011 0	
morning max el	10366 Oct 01 03:50 10366 Oct 07 18:05	22° Mp 35′23 0° <u>₽</u>	25*14*19	direct	10367 Aug 29 11:42 10367 Sep 09 08:51	25° Ω 29'18 0° m	
asc. node	10366 Oct 21 05:06	0 = 21° £ 34'34		morning max el	10367 Sep 09 08.31 10367 Sep 12 19:16	3°My00'35	26°42'13
ase. node	10366 Oct 25 10:40	0°M		morning max cr	10367 Oct 02 05:24	0ം ಹ	20 42 13
morning set	10366 Oct 27 19:15	4°M57'47		asc. node	10367 Oct 08 01:56	11° ≏ 03'06	
5 5 5				morning set	10367 Oct 12 05:17	19° ≏ 36'13	
superior conj	10366 Nov 03 15:08	19° M 54'47	1°37'53		10367 Oct 16 23:41	0° M	
minimum elong	10366 Nov 03 14:13	19° M 49'44	1°38'11				
max. Earth dist.	10366 Nov 05 03:07	23°M12'16	1.32172 AU	superior conj	10367 Oct 19 02:37	4°M43'06	1°30'04
	10366 Nov 08 06:34	0° ∡ ¹		minimum elong	10367 Oct 19 00:53	4° M 33′25	1°30'09
evening rise	10366 Nov 10 19:02	5° ∡ 17'05		max. Earth dist.	10367 Oct 19 11:25	5°M32′00	1.31590 AU
desc. node	10366 Nov 24 00:19	29° ∡ ′50′29		evening rise	10367 Oct 25 23:09	19° M 41'46	
	10366 Nov 24 02:37	0°る			10367 Oct 31 00:37	0° ∡ ¹	
evening max el	10366 Dec 13 13:09	25° පි 38'31	27°29'46	desc. node	10367 Nov 10 21:26	19° ∡ *04'14	
	10366 Dec 18 22:40	0°≈			10367 Nov 18 15:10	0°る	27002145
retrograde	10366 Dec 27 08:50	2°≈56'53		evening max el	10367 Nov 25 18:46	7°る55'56	2/03'45
evening set	10367 Jan 03 09:21	0°≈33'30 30°Rる		retrograde	10367 Dec 09 16:33	15°る06'21 13°る01'48	
min. Earth dist.	10367 Jan 04 04:17 10367 Jan 07 02:36	•	0.62547 AU	evening set min. Earth dist.	10367 Dec 16 14:23 10367 Dec 20 09:21	13°る01'48 10°る20'28	0.60479 AU
inferior conj	10367 Jan 07 02.36	27 3 32 20 24° 3 48'02		inferior conj	10367 Dec 20 09.21 10367 Dec 23 12:47	7°る42'40	
minimum elong	10367 Jan 10 04:14	24°る36'50		minimum elong	10367 Dec 23 12:47 10367 Dec 23 19:53	7°る4240	
morning rise	10367 Jan 17 01:29	19° る 39'51	2 1711	morning rise	10367 Dec 31 04:00	2°る54'19	3 33 40
asc. node	10367 Jan 17 04:39	19°る37'13		direct	10368 Jan 02 07:27	2° る 36'14	
direct	10367 Jan 19 07:55	19° る 16'19		asc. node	10368 Jan 04 01:43	2° る 48'55	
morning max el	10367 Jan 26 01:08	22° る 42'12	17°47'30	morning max el	10368 Jan 09 15:29	6° ට 16'04	18°01'08
Ü	10367 Jan 31 18:11	0° ≈		C	10368 Jan 24 18:25	0° ≈	
morning set	10367 Feb 10 23:48	17° ≈ 18'40		morning set	10368 Jan 25 06:17	0° ≈ 54'53	
	10367 Feb 18 06:06	0° ∀					
desc. node	10367 Feb 20 00:03	2°) 59′30		superior conj	10368 Feb 04 07:19	19° ≈ 12'03	0°19'31
				minimum elong	10368 Feb 04 08:54	19° ≈ 19′02	0°19'38
superior conj	10367 Feb 22 14:39	7°) €23'49	-0°19'32	desc. node	10368 Feb 06 20:52	23° ≈ 41′09	
minimum elong	10367 Feb 22 12:43	7° ∺ 15'44			10368 Feb 10 13:42	0° ∀	
max. Earth dist.	10367 Mar 01 08:55	18°) 30′00	1.43925 AU	max. Earth dist.	10368 Feb 11 21:47	2°) 14′04	1.42183 AU
	10367 Mar 08 15:38	0°Υ ••••••••		evening rise	10368 Feb 17 11:26	11°) 18′19	
evening rise	10367 Mar 09 09:34	1° Υ 09'28			10368 Feb 29 16:24	0°Υ	22021122
	10367 Mar 28 22:06	0° と 13° と 32'37	21014127	evening max el	10368 Mar 21 13:31	27° Y 17'26 0° ႘	22°31'33
evening max el asc. node	10367 Apr 08 19:49	18° 8 10'41	21-14-27	ratra ara da	10368 Mar 24 12:44 10368 Mar 31 09:36	3° 8 06'28	
retrograde	10367 Apr 15 02:44 10367 Apr 17 12:50	18° 8 39'27		retrograde asc. node	10368 Mar 31 23:56	3° 8 04'43	
evening set	10367 Apr 21 19:52	16° 8 56'44		evening set	10368 Apr 05 03:41	1° 8 08'35	
inferior conj	10367 Apr 27 02:38	10° 8 43'06	3°01'31	evening set	10368 Apr 06 08:47	30°R Y	
minimum elong	10367 Apr 27 01:03	10° 8 48'37	3°00'58	inferior conj	10368 Apr 10 11:39	24° Y 45'54	2°37'34
min. Earth dist.	10367 Apr 27 10:26	10° 8 16'00	0.68408 AU	minimum elong	10368 Apr 10 09:34	24° Y ′53'09	2°36'54
morning rise	10367 May 02 06:01	4° 8 28'05		min. Earth dist.	10368 Apr 10 06:48	25° Y ′02'44	0.68637 AU
direct	10367 May 07 10:50	2° 8 11'12		morning rise	10368 Apr 15 15:18	18° Ƴ 36'17	
morning max el	10367 May 17 19:41	8° 8 21'15	23°15'33	direct	10368 Apr 20 06:32	16° Ƴ 40′10	
desc. node	10367 May 19 00:46	9° 8 36'47		morning max el	10368 Apr 29 08:34	21° Y 57'45	21°48'01
	10367 Jun 03 18:13	0°П		desc. node	10368 May 04 21:38	28° Y 16′00	
morning set	10367 Jun 21 14:22	27° ∏ 48'40			10368 May 06 06:30	0°B	
	10367 Jun 22 21:34	0°©			10368 May 27 01:01	0°П	
max. Earth dist.	10367 Jun 25 17:47	4° © 52'03	1.39491 AU	morning set	10368 May 31 19:22	7° Ⅱ 30'10	1 41712 411
	10267 I-1 02 10:00	100620100	1917/07	max. Earth dist.	10368 Jun 06 18:27	17° Ⅱ 12'38	1.41713 AU
superior conj minimum elong	10367 Jul 03 10:09 10367 Jul 03 15:13	18° © 38'00		superior conj	10368 Jun 14 10:07	0°ഇ15'38	1945150
minimum ciong	10367 Jul 09 10:36	0°Ω	1 13 49	minimum elong	10368 Jun 14 16:30	0°9343'38	
asc. node	10367 Jul 12 01:33	5° Ω 03'02		minimum ciong	10368 Jun 14 16:30	0.20 0.30	1 43 41
evening rise	10367 Jul 12 01:56	6° Ω 41'16		evening rise	10368 Jun 25 05:41	19° 5 47'50	
-6 3	10367 Jul 26 14:10	0°m)		asc. node	10368 Jun 27 22:30	24°9545'12	
evening max el	10367 Jul 29 00:22	2° m 43'29	18°37'43		10368 Jun 30 20:24	0°N	
retrograde	10367 Aug 06 00:49	6° m 43'56		evening max el	10368 Jul 11 09:14	15° Ω 25'48	18°11'22
evening set	10367 Aug 08 01:10	6° m 29′38		retrograde	10368 Jul 18 09:42	18° Ω 59'09	
desc. node	10367 Aug 14 23:37	2° Mp 47'21		evening set	10368 Jul 20 17:21	18° Ω 36′27	
inferior conj	10367 Aug 15 22:54	2°Mp03'46	-0°17'55	inferior conj	10368 Jul 27 20:00	13° Ω 49'43	1°10'49
minimum elong	10367 Aug 15 22:11	2° Mp 05'07	0°17'54	minimum elong	10368 Jul 27 22:09	13° Ω 44'59	1°09'41
	10367 Aug 18 16:26	30°R€		min. Earth dist.	10368 Jul 31 04:05	10° Ω 53'59	0.59515 AU
min. Earth dist.	10367 Aug 19 04:35		0.57372 AU	desc. node	10368 Jul 31 20:50	10° Ω 19'33	
morning rise	10367 Aug 23 15:44	26° Ω 53'51		morning rise	10368 Aug 03 23:48	8° Ω 07'37	

direct	10368 Aug 10 09:19	6° Ω 13'29		morning max el	10369 Aug 06 23:05	25° © 52'54	27°57'06
morning max el	10368 Aug 24 17:50	14° Ω 03'52	27°38'46		10369 Aug 10 18:41	$0 {\circ} \Omega$	
	10368 Sep 06 12:34	0° m)			10369 Aug 31 01:36	0° m ∕	
asc. node	10368 Sep 23 22:44	0° ≏ 48'25		morning set	10369 Sep 09 13:25	18° m 09'26	
	10368 Sep 23 13:17	0∘ ⊽		asc. node	10369 Sep 10 19:34	20° m/45'15	
morning set	10368 Sep 25 11:59	4° Ω 01'47		max. Earth dist.	10369 Sep 15 03:51	0° ₽ 01'29	1.31866 AU
max. Earth dist.	10368 Oct 01 20:59	17° £ 52'03	1.31484 AU	max. Earth dist.	10369 Sep 15 03:35	0° ರ	1.51000710
max. Earm dist.	10308 Oct 01 20.39	17 == 32 03	1.31464 AU		10309 Sep 13 03.33	0 ==	
superior conj	10368 Oct 02 14:12	19° ≏ 27'45	1°16'47	superior conj	10369 Sep 17 00:07	4° ഫ 03'39	0°58'19
minimum elong	10368 Oct 02 12:01	19° ₽ 15'35		minimum elong	10369 Sep 16 21:57	3° £ 51'44	0°57'56
minimum clong			1 10 30		10369 Sep 23 18:36		0 37 30
	10368 Oct 07 08:25	0°M		evening rise		18° ≏ 54'12	
evening rise	10368 Oct 09 07:40	4° ጤ 15'57 –			10369 Sep 29 03:20	0° ™	
	10368 Oct 22 20:05	0° ∡		desc. node	10369 Oct 14 15:50	24°M56'52	
desc. node	10368 Oct 27 18:36	7° ∡ ³32'14			10369 Oct 19 07:18	0° ∡ ¹	
evening max el	10368 Nov 06 16:43	19° × 121'47	26°03'54	evening max el	10369 Oct 19 06:36	29°M58'19	24°36'50
retrograde	10368 Nov 20 14:30	26° ∡ ¹24'52		retrograde	10369 Nov 02 01:15	6° ∡ ¹53'07	
evening set	10368 Nov 26 23:45	24° ∡ ¹47'58		evening set	10369 Nov 07 09:16	5° ∡ ¹49'45	
min. Earth dist.	10368 Dec 01 05:31	22° ∡ 12'58	0.58382 AU	min. Earth dist.	10369 Nov 12 17:50	3° ∡ °02'22	0.56503 AU
inferior conj	10368 Dec 04 08:10	19° × 57'29		inferior conj	10369 Nov 15 07:16	1°×724'55	
,		19° × ³ /23'11	4°43'37	3		1° 🗷 17'37	
minimum elong	10368 Dec 04 16:02		4 43 3 /	minimum elong	10369 Nov 15 11:51		3 33 40
morning rise	10368 Dec 12 10:47	15° ⋌ '31'43			10369 Nov 17 14:05	30°₽M	
direct	10368 Dec 14 15:38	15° ∡ 15'47		morning rise	10369 Nov 23 16:38	27°M21'08	
asc. node	10368 Dec 20 22:47	17° ∡ ³35′10		direct	10369 Nov 26 04:41	27° M 04'05	
morning max el	10368 Dec 22 23:10	19° ∡ 18'48	18°35'04		10369 Dec 03 21:58	0° ∡ 7	
	10368 Dec 30 20:39	0°ರ		morning max el	10369 Dec 05 20:26	1° ∡ ¹40′02	19°31'01
morning set	10369 Jan 08 00:47	15° る 03'20		asc. node	10369 Dec 07 19:48	3° ∡ ′44′18	
S	10369 Jan 15 19:34	0° ≈		morning set	10369 Dec 23 03:24	29° ∡ ³32'40	
	100000 0011 10 10.00	0.0		morning sec	10369 Dec 23 08:51	0°る	
superior conj	10369 Jan 16 21:08	1° ≈ 59'40	0°51'14		10307 BCC 23 00.31	° O	
					102(0 D 21 02-00	150=20000	1014140
minimum elong	10369 Jan 17 00:08	2°≈13'42	0°51'14	superior conj	10369 Dec 31 03:09	15°₹32'33	
desc. node	10369 Jan 23 17:42	14° ≈ 23′07		minimum elong	10369 Dec 31 06:06	15° ප් 46'58	1°14'48
max. Earth dist.	10369 Jan 24 06:05	15° ≈ 17'05	1.40082 AU	max. Earth dist.	10370 Jan 06 11:54	27° る 38'43	1.37875 AU
evening rise	10369 Jan 28 09:42	22° ≈ 21'45			10370 Jan 07 18:52	0° ≈	
	10369 Feb 02 01:45	0° ∀		evening rise	10370 Jan 10 05:16	4° ≈ 20'48	
	10369 Feb 22 16:10	$0^{\circ}\mathbf{\Upsilon}$		desc. node	10370 Jan 10 14:35	5° ≈ 01'47	
evening max el	10369 Mar 04 04:01	11° Y ′04'40	23°52'01		10370 Jan 26 02:47	0° ∀	
retrograde	10369 Mar 15 03:28	17° Y ′32'32		evening max el	10370 Feb 14 17:16	24°) 53'43	25°09'16
asc. node	10369 Mar 18 21:09	16° Y ′26'44		evening man er	10370 Feb 21 00:15	0°Υ	20 0, 10
_		15° Υ 20'44		4 1 -			
evening set	10369 Mar 20 09:22		0.60402.441	retrograde	10370 Feb 26 17:18	1°Υ51'31	
min. Earth dist.	10369 Mar 25 03:18	9° Ƴ 49'59	0.68423 AU		10370 Mar 03 19:21	30°₽)	
inferior conj	10369 Mar 25 20:13	8° Y 52'20	2°04'12	evening set	10370 Mar 04 11:18	29° ∺ 28′12	
minimum elong	10369 Mar 25 18:03	8° Y 59'46	2°03'29	asc. node	10370 Mar 05 18:24	28° ¥ 15′16	
morning rise	10369 Mar 31 02:46	2° Ƴ 49'19		min. Earth dist.	10370 Mar 08 21:46	24°) 32′16	0.67795 AU
direct	10369 Apr 04 04:43	1° Y 15'13		inferior conj	10370 Mar 10 02:29	22° ¥ 58'31	1°21'36
morning max el	10369 Apr 12 03:56	5° Ƴ 46'27	20°29'37	minimum elong	10370 Mar 10 00:42	23°) €04'18	1°21'04
desc. node	10369 Apr 21 18:27	17° Ƴ 34'53		morning rise	10370 Mar 15 14:27	17° ¥ 03'22	
	10369 Apr 30 09:11	0°B		direct	10370 Mar 19 04:03	15° ¥ 50'15	
morning set	10369 May 11 01:16	16° 8 11'53		morning max el	10370 Mar 26 07:05	19° ¥ 46'19	19°24'42
morning set	10369 May 19 19:22	0°П		morning max or	10370 Mai 20 07:03 10370 Apr 03 13:23	0° Υ	17 2772
E (1 E)	•		1 42500 ATT	4 41 311			0.7
max. Earth dist.	10369 May 20 02:03	∪-щ26′52	1.43598 AU	greatest brilliancy	10370 Apr 08 00:48	6° Y 28'38	-0.7m
		—		desc. node	10370 Apr 08 15:14	7° Υ ′22'12	
superior conj	10369 May 26 11:03	10° Ⅲ 52'13		morning set	10370 Apr 20 00:39	24° Y '42'00	
minimum elong	10369 May 26 15:43	11° Ⅱ 11'39	2°07'08		10370 Apr 23 10:58	9° 8	
	10369 Jun 06 15:41	0 \circ \odot		max. Earth dist.	10370 May 02 15:37	14° 8 21'40	1.44937 AU
evening rise	10369 Jun 07 21:19	2° © 09'35					
asc. node	10369 Jun 14 19:31	14°9510'27		superior conj	10370 May 06 11:57	20° 8 27'43	-2°12'38
evening max el	10369 Jun 24 22:13	28° © 34'42	18°04'32	minimum elong	10370 May 06 10:30	20° 8 21'57	
	10369 Jun 26 12:53	0°Ω	· · · -		10370 May 12 10:06	20 О 21 37	
retrogrado	10369 Jul 01 09:57	1° Ω 56'03		avaning rise	-	13° Ⅱ 34'48	
retrograde				evening rise	10370 May 20 15:53		
evening set	10369 Jul 04 01:23	1° Ω 21'57			10370 May 30 15:07	0°©	
	10369 Jul 06 09:22	30°ષ્ટ્		asc. node	10370 Jun 01 16:36	3° © 11'42	
inferior conj	10369 Jul 10 12:02	26° © 15'53		evening max el	10370 Jun 08 11:52	12° © 00'38	18°16'24
minimum elong	10369 Jul 10 14:50	26° © 08'45	2°12'19	retrograde	10370 Jun 14 20:56	15° 5 24'06	
min. Earth dist.	10369 Jul 13 12:25	23° © 13'09	0.61784 AU	evening set	10370 Jun 17 20:11	14° © 36'27	
morning rise	10369 Jul 17 01:59	20°511'49		inferior conj	10370 Jun 23 18:44	9° © 12'50	2°52'53
desc. node	10369 Jul 18 18:01	19° © 10'13		minimum elong	10370 Jun 23 20:55	9° © 06'38	2°52'01
direct	10369 Jul 23 18:20	17° 9 51'18		min. Earth dist.	10370 Jun 26 06:07	6° \$ 24'38	0.63917 AU
	23 10.20	0110		 	20 00.07		

morning rise	10370 Jun 29 20:16	2° 9 57'03		desc. node	10371 Jun 22 12:14	13° Ⅱ 57'22	
desc. node	10370 Jul 05 15:10	0°921'31		morning max el	10371 Jul 02 18:54	21° Ⅱ 17'36	26°47'29
direct	10370 Jul 06 12:42	0° © 18'49			10371 Jul 10 08:03	0 \circ \odot	
morning max el	10370 Jul 20 08:19	8°920'59	27°38'03		10371 Jul 30 06:47	$0^{\circ}\Omega$	
S	10370 Aug 06 02:25	$0^{\circ}\Omega$		morning set	10371 Aug 07 14:15	15° Ω 02'34	
	10370 Aug 23 08:24	0° m)		max. Earth dist.	10371 Aug 11 18:38	23°Ω12'36	1.34138 AU
morning set	10370 Aug 24 07:11	1° m/52'20		max. Earth dist.	10371 Aug 11 10:30	0° m)	1.54150710
•	-			1	-		
asc. node	10370 Aug 28 16:25	10° m/48'34	1 225 10 1 77	asc. node	10371 Aug 15 13:16	0° Mp 54′25	
max. Earth dist.	10370 Aug 29 04:03	11° m) 49'32	1.32748 AU				
				superior conj	10371 Aug 16 06:47	2° Mg 25'27	
superior conj	10370 Sep 01 06:24	18° m) 24'55		minimum elong	10371 Aug 16 06:25	2° Mg 23'31	0°06'51
minimum elong	10370 Sep 01 04:49	18° Mp 16'22	0°34'30	behind sun begin	10371 Aug 16 01:10	1° m 56'15	
	10370 Sep 06 14:47	0∘ 亚		behind sun end	10371 Aug 16 11:39	2° m 50'49	
evening rise	10370 Sep 08 06:04	3° ♀ 30'52		evening rise	10371 Aug 23 16:08	18° m 00'38	
	10370 Sep 22 12:29	0° M .			10371 Aug 29 14:45	0∘ ⊽	
evening max el	10370 Sep 30 17:21	10°ML07'38	22°56'55	evening max el	10371 Sep 12 09:57	20° ₽ 25'17	21°20'59
desc. node	10370 Oct 01 13:05	10°M54'15		desc. node	10371 Sep 18 10:22	24° ≏ 54'42	
retrograde	10370 Oct 13 23:29	16°M43'53		retrograde	10371 Sep 24 11:55	26° ₽ 25'03	
evening set	10370 Oct 13 29:27	16°ML11'09		evening set	10371 Sep 27 01:24	26° ⊆ 09'56	
min. Earth dist.	10370 Oct 17 20.27 10370 Oct 25 02:12	12°M.53'10	0.55151 AU	inferior conj	10371 Sep 27 01:24 10371 Oct 06 04:09	20° ⊆ 09'30 22° ⊆ 14'07	4951127
inferior conj	10370 Oct 26 11:19	12°M05'32		minimum elong	10371 Oct 05 18:47	22° ≏ 27'14	
minimum elong	10370 Oct 26 08:13	12° M ₊10'01	5°40'54	min. Earth dist.	10371 Oct 06 09:44	22° ≏ 06'17	0.54617 AU
morning rise	10370 Nov 03 21:45	8°M16'13		morning rise	10371 Oct 14 12:53	18° ≏ 23'29	
direct	10370 Nov 06 23:23	7° M 54'12		direct	10371 Oct 18 08:12	17° ≏ 52'14	
morning max el	10370 Nov 18 04:27	13° M ₊11'37	20°49'38	morning max el	10371 Oct 30 23:34	23° ♀ 53'55	22°27'39
asc. node	10370 Nov 24 16:47	21°M00'23			10371 Nov 05 10:26	0° M	
	10370 Nov 30 04:54	0° ∡ ¹		asc. node	10371 Nov 11 13:43	9° I IL07'46	
morning set	10370 Dec 07 11:17	14° ∡ °14′53		morning set	10371 Nov 21 22:04	29°M02'31	
C				C	10371 Nov 22 08:56	0° ∡ ¹	
superior conj	10370 Dec 14 21:01	29° х 38′16	1°30'07				
minimum elong	10370 Dec 14 23:05	29° х 48′50	1°30'26	superior conj	10371 Nov 28 23:04	14° ∡ °05'26	1°38'15
minimum ciong	10370 Dec 14 23:05	0° 궁	1 30 20	minimum elong	10371 Nov 28 23:56	14° × 10'05	1°38'41
max. Earth dist.	10370 Dec 13 01:10 10370 Dec 19 20:23	9° る 35'58	1.35806 AU	max. Earth dist.	10371 Nov 28 23:30 10371 Dec 02 11:56	21° x ⁷ 29'54	1.34058 AU
		9 3 33 38	1.55600 AU	max. Earm dist.		21 メ ・29 34	1.54056 AU
evening rise	10370 Dec 23 19:30				10371 Dec 06 17:29		
desc. node	10370 Dec 28 11:32	25° る 33'19		evening rise	10371 Dec 07 00:31	0°る34'16	
	10370 Dec 31 01:38	0° ≈		desc. node	10371 Dec 15 08:33	15° ප් 52'11	
	10371 Jan 20 11:25	0° ∀			10371 Dec 24 02:40	0° ≈	
evening max el	10371 Jan 28 06:45	8°) 41′56	26°16'03	evening max el	10372 Jan 10 20:18	22° ≈ 20'15	27°05'05
retrograde	10371 Feb 10 02:06	15° ¥ 57′29		retrograde	10372 Jan 24 04:53	29° ≈ 42'15	
evening set	10371 Feb 16 07:49	13° ∺ 26′19		evening set	10372 Jan 30 20:52	27° ≈ 08'19	
min. Earth dist.	10371 Feb 20 12:00	9° ∺ 04'52	0.66779 AU	min. Earth dist.	10372 Feb 03 19:40	23° ≈ 20′34	0.65393 AU
asc. node	10371 Feb 20 15:38	8° ¥ 53'53		inferior conj	10372 Feb 05 23:51	20° ≈ 53'24	-0°30'37
inferior conj	10371 Feb 22 04:27	7° ₩ 00'51	0°29'56	minimum elong	10372 Feb 06 00:44	20°≈50'54	0°29'53
minimum elong	10371 Feb 22 03:41	7° ₩ 03'14	0°29'52	asc. node	10372 Feb 07 12:49	19° ≈ 11'09	
morning rise	10371 Feb 28 00:20	1° ¥ 15′23		morning rise	10372 Feb 12 05:58	15° ≈ 20'05	
direct	10371 Mar 03 02:57	0° ¥ 20'39		direct	10372 Feb 14 23:14	14° ≈ 40′20	
morning max el	10371 Mar 09 17:21	3° ¥ 53'54	18°35'36	morning max el	10372 Feb 21 08:39	18° ≈ 02'25	18°03'15
desc. node	10371 Mar 05 17:21 10371 Mar 26 12:01	27°) 30'36	10 00 00		10372 Mar 01 07:27	0° \	10 00 10
acse. Houc	10371 Mar 28 02:04	27 γ (30 30		morning set	10372 Mar 10 14:08	0 X 14° ¥ 59'35	
. ,				•			
morning set	10371 Mar 30 17:01	4° Υ 07'34		desc. node	10372 Mar 12 08:46	17°) €53'45	
					10372 Mar 19 20:24	0 ° Υ	
superior conj	10371 Apr 15 20:19	29° Y 25'24					
minimum elong	10371 Apr 15 12:08	28° Y ′53′22	1°58'01	superior conj	10372 Mar 25 04:50	8° Y '30'17	
max. Earth dist.	10371 Apr 15 09:38	28° Y 43'34	1.45597 AU	minimum elong	10372 Mar 24 19:49	7° Y ′54'42	1°24'57
	10371 Apr 16 05:10	9° 8		max. Earth dist.	10372 Mar 28 05:41	13° Ƴ 16'46	1.45511 AU
evening rise	10371 May 01 10:29	24° 8 00'08			10372 Apr 07 23:35	9° 8	
	10371 May 05 04:50	$\Pi^{\circ}0$		evening rise	10372 Apr 10 07:58	3° 8 37'55	
greatest brilliancy	10371 May 09 16:39	7° Ⅱ 07'36	-0.8m	greatest brilliancy	10372 Apr 23 12:40	23° 8 46'54	-0.7m
asc. node	10371 May 19 13:44	21° II 41'03		- ,	10372 Apr 27 19:31	0°II	
evening max el	10371 May 22 23:25	25° Ⅱ 36'49	18°46'10	asc. node	10372 May 05 10:52	9° Ⅱ 28'11	
retrograde	10371 May 29 14:41	29° I I15'33		evening max el	10372 May 05 16:32	9° Ⅱ 17'37	19°32'40
evening set	10371 Jun 01 22:01	28° Ⅱ 12'54		retrograde	10372 May 12 12:10	13° Ⅱ 23'41	1, 32 10
inferior conj	10371 Jun 07 12:15	22° I I33'14	3°13'12	evening set	10372 May 12 12:10 10372 May 16 04:04	13 Ⅱ 2541 12° Ⅱ 05'25	
				-	•		2010117
minimum elong	10371 Jun 07 13:18	22° Ⅱ 29'58	3°12'38	inferior conj	10372 May 21 13:16	6°Ⅱ10'59	
min. Earth dist.	10371 Jun 09 08:38	20° Ⅱ 15'41	0.65732 AU	minimum elong	10372 May 21 13:08	6° Ⅱ 11′26	
morning rise	10371 Jun 13 03:52	16° Ⅱ 13'02		min. Earth dist.	10372 May 22 18:40	4° Ⅱ 33'50	0.67126 AU
direct	10371 Jun 19 14:33	13° Ⅱ 28'34		morning rise	10372 May 26 21:51	29° 8 50'55	

	10272 M 26 17-51	2005			10272 M 05 17.59	200	2010/10
direct	10372 May 26 17:51 10372 Jun 01 22:37	30°R と 27° と 11'05		minimum elong min. Earth dist.	10373 May 05 17:58 10373 May 06 10:26	20° 8 05'08 19° 8 08'32	3°10'19 0.68068 AU
	10372 Jun 01 22:37 10372 Jun 08 09:15	29° 8 32'21			•	13° 8 43'49	0.08008 AU
desc. node	10372 Jun 08 09:13	29 O 32 21		morning rise direct	10373 May 10 23:34	13 8 43 49	
morning max el	10372 Jun 14 05:06	0 П 4°П32'05	25924104	desc. node	10373 May 16 11:54 10373 May 26 06:11	16° 8 36'44	
morning max er	10372 Jul 14 03.00 10372 Jul 03 17:21	4 п 3203	23 34 04		•	17° 8 56'04	24°07'27
morning sat	10372 Jul 03 17.21 10372 Jul 20 06:43	0 S 27°S30'01		morning max el	10373 May 27 14:39 10373 Jun 06 17:03	0°Ⅱ	24 0727
morning set	10372 Jul 20 06.43	27 \$3001 0°Ω			10373 Jun 26 18:55	0°©	
max. Earth dist.	10372 Jul 23 23:05		1.35987 AU	morning set	10373 Jul 20 18:33 10373 Jul 02 03:40	9° © 01'23	
max. Earth dist.	103/2 Jul 23 23.03	4 061921	1.33967 AU	max. Earth dist.	10373 Jul 02 03:40 10373 Jul 05 20:48	15°932'30	1.38168 AU
gunariar aani	10372 Jul 29 22:31	15° Ω 57'59	0°24'05	max. Earth dist.	10373 Jul 03 20.48	15 352 30	1.36106 AU
superior conj minimum elong	10372 Jul 29 24:00	16° Ω 05'26		superior conj	10373 Jul 13 02:04	28°952'54	0°57'14
asc. node	10372 Jul 29 24:00 10372 Aug 01 10:08	20°Ω59'02	0 24 10	minimum elong	10373 Jul 13 05:51	29° © 10'59	
asc. node	10372 Aug 01 10:08	0° m)		minimum ciong	10373 Jul 13 16:06	0°Ω	0 37 01
evening rise	10372 Aug 05 17:43 10372 Aug 06 22:38	2°Mp17'36		asc. node	10373 Jul 19 07:01	10° Ω 57'52	
evening rise	10372 Aug 23 08:35	2° بر ۱۲۶۵ 0° <u>م</u>		evening rise	10373 Jul 21 22:56	16° Ω 13'35	
evening max el	10372 Aug 24 15:06	0 — 1° Ω 20'17	20°01'07	evening rise	10373 Jul 29 05:17	0° m)	
retrograde	10372 Sep 04 01:49	6° £ 31'24	20 01 07	evening max el	10373 Aug 07 09:31	13° m) 01'01	19°02'03
desc. node	10372 Sep 04 07:38	6° Ω 31'14		retrograde	10373 Aug 16 05:13	17° m) 24'35	17 02 03
evening set	10372 Sep 05 07:30	6° £ 21'42		evening set	10373 Aug 18 02:17	17° Mp 13'26	
inferior conj	10372 Sep	2° Ω 21'55	-3°13'49	desc. node	10373 Aug 22 04:54	15° m/ 40'25	
minimum elong	10372 Sep 14 15:17	2° ₽ 34'42		inferior conj	10373 Aug 26 11:06	12° m) 58'42	-1°19'28
min. Earth dist.	10372 Sep 16 19:07	1° Ω 16'45	0.55030 AU	minimum elong	10373 Aug 26 07:40	13° m) 04'38	1°18'18
mm. Earth dist.	10372 Sep 10 13:07	30°R MD	0.55050710	min. Earth dist.	10373 Aug 29 08:42	10° m) 58'53	0.56316 AU
morning rise	10372 Sep 23 05:29	28° m 09'22		morning rise	10373 Sep 03 09:56	8° m) 09'56	0.00010110
direct	10372 Sep 27 19:40	27° m) 23'34		direct	10373 Sep 08 19:19	7° m) 01'41	
ancet	10372 Oct 06 05:14	ე° Ω		morning max el	10373 Sep 23 00:15	14° m) 18'21	25°54'51
morning max el	10372 Oct 11 11:33	ა — 4° ჲ 06'07	24°14'52	morning mun vi	10373 Oct 05 11:39	0∘ ⊽	20 0.01
asc. node	10372 Oct 28 10:36	27° Ω 54'09	2.1.02	asc. node	10373 Oct 15 07:26	ა — 17° ჲ 09'10	
	10372 Oct 29 13:39	0°M		morning set	10373 Oct 20 21:01	28° £ 33'16	
morning set	10372 Nov 05 09:52	13°M50'23		morning sec	10373 Oct 21 13:11	0°M	
	,						
superior conj	10372 Nov 12 06:30	28°M46'01	1°39'46	superior conj	10373 Oct 27 17:04	13°M32'56	1°35'15
minimum elong	10372 Nov 12 06:11	28°M44'20	1°40'10	minimum elong	10373 Oct 27 15:46	13°ML25'43	1°35'29
	10372 Nov 12 20:06	0° ∡ ″		max. Earth dist.	10373 Oct 28 17:24	15°M47'29	1.31865 AU
max. Earth dist.	10372 Nov 14 11:32	3° ∡ ³33'14	1.32731 AU	evening rise	10373 Nov 03 17:18	28°M43'34	
evening rise	10372 Nov 19 16:48	14° ∡ ¹28'35			10373 Nov 04 08:00	0° ∡ ¹	
	10372 Nov 27 20:16	ರ°0		desc. node	10373 Nov 18 02:44	25° ∡ ¹25'47	
desc. node	10372 Dec 01 05:36	5° る 52'19			10373 Nov 21 00:52	ರ∘ರ	
	10372 Dec 18 01:47	0° ≈		evening max el	10373 Dec 05 17:01	18° る 17'59	27°22'47
evening max el	10372 Dec 23 08:27	5° ≈ 36'30	27°29'17	retrograde	10373 Dec 19 13:46	25° る 33'29	
retrograde	10373 Jan 06 00:58	12° ≈ 57′21		evening set	10373 Dec 26 14:18	23° る 16'33	
evening set	10373 Jan 13 00:02	10° ≈ 27'28		min. Earth dist.	10373 Dec 30 07:21	20° る 25'28	0.61685 AU
min. Earth dist.	10373 Jan 16 18:36	7° ≈ 11'02	0.63672 AU	inferior conj	10374 Jan 02 07:53	17° る 41'48	-2°53'19
inferior conj	10373 Jan 19 10:01	4° ≈ 29'39	-1°39'10	minimum elong	10374 Jan 02 13:40	17° る 28'42	2°50'42
minimum elong	10373 Jan 19 13:12	4° ≈ 21'32	1°37'26	morning rise	10374 Jan 09 15:34	12° る 42'03	
asc. node	10373 Jan 24 09:58	0° ≈ 06′20		asc. node	10374 Jan 11 07:05	12° る 22'37	
	10373 Jan 24 14:00	30°R₹		direct	10374 Jan 11 20:18	12° る 21'17	
morning rise	10373 Jan 26 04:22	29° る 11'32		morning max el	10374 Jan 18 18:47	15° る 51'45	17°50'59
direct	10373 Jan 28 14:09	28° る 43'06			10374 Jan 28 15:51	0° ≈	
	10373 Feb 01 13:06	0° ≈		morning set	10374 Feb 03 11:43	10° ≈ 21'07	
morning max el	10373 Feb 04 02:11	2° ≈ 04'29	17°48'08				
morning set	10373 Feb 20 14:26	27°≈10'35		superior conj	10374 Feb 14 09:24	29° ≈ 37'18	
	10373 Feb 22 05:59	0° ∀		minimum elong	10374 Feb 14 09:13	29° ≈ 36'34	0°01'56
desc. node	10373 Feb 27 05:31	8° ¥ 27'07		behind sun begin	10374 Feb 14 00:44	29° ≈ 00'11	
		40034-	00445-	behind sun end	10374 Feb 14 17:43	0°) 12'51	
superior conj	10373 Mar 05 06:40	18°) €27'57		desc. node	10374 Feb 14 02:19	29°≈06'56	
minimum elong	10373 Mar 05 01:57	18°) €08'39	0°43'16		10374 Feb 14 14:42	0° ∀	
max. Earth dist.	10373 Mar 11 00:41	27°) (43'21	1.44694 AU	max. Earth dist.	10374 Feb 21 15:59	11°) 46'13	1.43237 AU
	10373 Mar 12 11:11	0°Υ		evening rise	10374 Feb 28 12:27	22°) 42′17	
evening rise	10373 Mar 20 19:29	12° Y 59′10			10374 Mar 05 05:53	0° Υ	
	10373 Apr 01 02:14	0°8			10374 Mar 26 08:13	0°8	
evening max el	10373 Apr 18 08:18	22° 8 59'31	20°33'50	evening max el	10374 Apr 01 04:30	6° 8 42'58	21°46'24
asc. node	10373 Apr 22 08:02	26° 8 19'57		asc. node	10374 Apr 09 05:14	12° 8 01'50	
retrograde	10373 Apr 26 10:53	27° 8 42'40		retrograde	10374 Apr 10 08:58	12° 8 08'24	
evening set	10373 Apr 30 12:09	26° 8 08'40		evening set	10374 Apr 14 20:32	10° 8 19'07	
inferior conj	10373 May 05 19:06	20° 8 01'13	3°10'48	inferior conj	10374 Apr 20 03:33	4° 8 00'59	2°52'33

min. ram. dart 0.93 Mar 17 2259 27 27 17 41 min. miner oor oor of 1037 Mar 18 18 125 27 27 17 41 morning frie 0.377 Mar 08 16 14 17 17 17 17 17 17 17								
minimation 0378 May 12 (82) 79(7) May 12 (82) 49(7) May 12 (82) 49(7) May 12 (82) 99(7) May 12 (82) 19(7) May 12 (82) 1	min. Earth dist.	10376 Mar 17 22:37	3° Y 25'57	0.68214 AU	inferior conj	10377 Mar 03 01:10	16° ¥ 17'38	1°00'49
1000					Č			1°00'26
morning mach 0375 Mar 2 al 9.51 249 Payrs section of 1076 Mar 2 al 9.12 249 Payrs comming mach mach mach mach mach mach mach mach	mınımum elong			1°46'35	-			
direct 0376 Apr 4 18 1912 1947 Cay 1970 Apr 2 18 12 19 1970 Septembriated 1973 Apr 2 18 12 19 1970 Septembriated 1973 Apr 1 18 12 18 1970 Septembriated 1973 Apr 1 18 12 18 1970 Septembriated 1973 Apr 1 18 10 18 1970 Septembriated 1973 Apr 2 18 10 18 1970 Apr 2 18 10 18 18 11 18 11 18 11 18 11 18 11 18 11 18 18								10001110
Monthing max	=				morning max el			19°01'49
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morning sem Ra. Earth dist. 10376 May 12 of 32 by 2007 29°E3074 1.4254 AU max. Earth dist. 10376 May 16 07:11 0°T superior conj 10376 May 17 18.28 2°E2074 29°E3074 1.4254 AU superior conj 10377 May 08 22.29 0°E1075 20°E3074 20°E30744 20°E3074 20°E3074 20°E3074	desc. node	-			morning set			
March 1978						-		
September 1976 May 1 1971 1972 1972 1973 197	Č		_		max. Earth dist.	10377 Apr 25 00:02	7° 8 47'10	1.45311 AU
paperior con 0.776 May 17 82.5 2*11241 2*11254 2*1125	max. Earth dist.	•		1.44254 AU				•••••
support coop 10376 May 17 1828 2°HZ 217 2°HT 34 Cevening rise 10377 May 12 cm 2°HZ 217 <		10376 May 16 07:11	0°Щ			•		
minimal melong 10376 May 10 21001 2°TI3'41 2°11'56 evening rise 10377 May 12 20703 2°TI2'18 asc. node 10376 May 10 8 2000 0°82 cevening max 10375 May 17 1500 2°TI2'18 cevening max 10375 May 17 1507 2°TI2'18 evening max 10375 May 17 1507 2°TI2'18 8°E3531 18°C53 evening max 10375 May 17 1507 2°TI2'8358 18°0721 retrograde 10375 May 17 1507 18°185 18°2531 18°0721 11°10 170 18'2531 18°2					minimum elong		_	2°09'13
Seeming rise 10376 May 30 22:00 24°H27725 ase, node 10377 May 26 1906 28°H27270 ase, node 10376 May 10 10410 5°B0648 18°26'35'] ase, node 10376 May 10 10410 5°B0648 18°26'35'] ase, node 10376 May 10 10720 2°B038'22 cvening max el 10376 May 10 10720 2°B038'22 cvening max el 10376 May 10 10720 2°B038'23 18°D0720 cvening ast 10376 May 10 10720 2°B035'3 18°D0720 cvening ast 10376 May 10 10720 2°B035'3 18°D0720 cvening ast 10376 May 10 10 10 10 10 10 10 10 10 10 10 10 10								
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min. Earth dist. 10376 Jul 05 1927 16°S0328 0.62727 AU min. Earth dist. 10377 Jun 18 16.95 29°L13575 7 0.6473 AU morning rise 10376 Jul 12 20.57 0°8656 direct 10377 Jun 22 08.59 25°L11575 28°L11575 4 4 4 4 4 2.9°L11575 2.9°L11575 4 4 2.9°L11675 4 4 2.9°L11675 2.9°L11675 4 4 2.9°L11675 4 2.9°L11675 4 4 2.9°L11675 2.9°L11675 4 4 2.9°L11675 2.9°L11675 4 4 2.9°L11675 2.9°L11675 4 4 2.9°L1775 4 2.9°L1775 4 2.9°L1775 2.9°L1775 2.9°L1775 <td>3</td> <td></td> <td></td> <td></td> <td>minimum elong</td> <td></td> <td></td> <td>3°02'51</td>	3				minimum elong			3°02'51
morning rise 10376 Jul 9 0 8.4 12 2027 10 20 56 10 1037 Jul 12 1032 10 1002 10 1035 10 1037 Jul 12 1032 10 1002 10 1037 Jul 10 1037 Jul 10 1038 10 1037 Jul 10 1037 Jul 10 1038 10 1038 10 1037 Jul 10 1038 10 1037 Jul 10 1038 10 1037 Jul 10 1038 1	C				t man at an a		•	0.64524.477
desc. node diox36 Jul 12 20.27 10°256/55 direct 10376 Jun 28 23.26 23°H 10°S 10°B 10°S direct 10376 Jul 16 01.57 10°250/51 2°5320 10377 Jul 11 09.28 33°B 118°S 10°B nomning max el 10376 Aug 08 20.48 6°L morning set 10377 Aug 12 12.30 1°G 2°2000 2°2000 11°02218 morning set 10377 Aug 12 12.30 0°L 2°200 1°1°02518 morning set 10377 Aug 12 12.30 0°L 2°200 1°1°02518 morning set 10377 Aug 12 12.30 0°L 1°200 1°3286 1°3358 1°32818 morning set 10377 Aug 19 12.30 0°L 1°3286 1°3358 1°3358 1°3358 1°3358 1°3358 1°3358 1°3358 1°3358 1°377 Aug 21 13.30 1°8450 1°3358				0.62727 AU				0.64734 AU
direct 10376 Jul 16 0157 10°823105 conde 10377 Jul 10 948 0°82 conde 10376 Jul 30 0310 18°822524 27°5320 conde 10377 Jul 10 948 0°82 conde 10376 Aug 82 2048 0°42 conde 10377 Aug 62 2327 24°45224 conde 10376 Aug 82 2048 conde 10376 Sep 0 2 1549 22°18244 1.32181 AU max. Earth dist 10377 Aug 10 223 24°45224 conde 10376 Sep 0 1549 22°18244 1.32181 AU max. Earth dist 10377 Aug 10 223 12.09 conde con	•				•			
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evening rise	minimum elong	10378 Apr 06 07:26	19° Ƴ 55'59	1°45'43	minimum elong	10379 Mar 16 23:44	29°) 27'01	1°07'45
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greatest brilliancy asc. node 10378 May 13 16:13 16'E14009 10379 May 12 13:31 16'B14009 10378 May 12 10:35 16'E107004 10378 May 13 16:10 10378 May 12 10:35 12'E114502 10378 May 12 10:35 10378 May 12 10:30 10378 May 13 10:40 10378 May 10 10:4	evening rise	10378 Apr 22 15:53	15° 8 30'19		evening rise	10379 Apr 02 07:22	24° Y ′56'37	
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behind sun begin behind sun end 10378 Aug 08 20:23 25°\$\Omega\$07'26 superior conj 10379 Jul 23 12:37 8°\$\Omega\$51'57 -0°38'04 asc. node 10378 Aug 10 95:04 0°\$\Omega\$ 26°\$\Omega\$46'19 superior conj 10379 Jul 23 12:37 8°\$\Omega\$51'57 -0°38'04 asc. node 10378 Aug 11 05:04 0°\$\Omega\$ asc. node 10379 Jul 23 15:03 9°\$\Omega\$03'53 0°38'01 soc. node 10379 Jul 21 15:03 9°\$\Omega\$03'53 0°38'01 soc. node 10379 Jul 21 12:31 16°\$\Omega\$049'00 sevening rise 10378 Aug 16 16:37 11°\$\Omega\$26'40 sevening rise 10379 Aug 03 01:45 0°\$\Omega\$0 soc. node 10379 Aug 03 01:45 0°\$\Omega\$0 soc. node 10378 Aug 26 08:33 0°\$\Omega\$0 soc. node 10379 Aug 03 01:45 0°\$\Omega\$0 soc. node 10378 Sep 12 12:50 17°\$\Omega\$28'40 retrograde 10379 Aug 27 15:31 28°\$\Omega\$21'10 soc. node 10378 Sep 12 12:50 17°\$\Omega\$57'28 sevening set 10379 Aug 27 15:31 28°\$\Omega\$12'10 sevening set 10378 Sep 15 21:24 17°\$\Omega\$57'28 sevening set 10379 Aug 27 15:31 28°\$\Omega\$12'10 sevening set 10378 Sep 27 05:18 13°\$\Omega\$55'5 desc. node 10379 Aug 29 11:46 28°\$\Omega\$12'10 sevening set 10378 Sep 27 05:18 13°\$\Omega\$55'5 desc. node 10379 Aug 30 10:05 28°\$\Omega\$00'12 inferior conj 10379 Sep 07 06:23 24°\$\Omega\$07'24 -2°25'16 minimum elong 10378 Sep 26 19:26 14°\$\Omega\$60'14 4°11'23 minimum elong 10379 Sep 07 06:23 24°\$\Omega\$07'24 -2°25'16 minimum elong 10378 Oct 09 15:55 9°\$\Omega\$1539 morning rise 10379 Sep 15 09:43 19°\$\Omega\$41'1 4°11'23 minimum elong 10379 Sep 09 15:00 22°\$\Omega\$74* 0.55481 AU morning rise 10378 Oct 09 15:55 9°\$\Omega\$1539 morning max el 10378 Oct 09 15:55 9°\$\Omega\$1539 morning max el 10379 Oct 09 15:55 9°\$\Omega\$1539 morning max el 10379 Oct 09 15:55 9°\$\Omega\$1539 morning set 10379 Oct 03 07:50 22°\$\Omega\$141 24°\$\Omega\$29'\$\Omega\$1539 morning set 10379 Oct 03 07:50 22°\$\Omega\$141 24°\$\Omega\$29'\$\Omega\$1539 morning set 10379 Nov 15 00:12 22°\$\Omega\$141 15°\$\Omega\$36'08 23°13'06 morning set 10379 Nov 06 07:56 22°\$\Omega\$141 1240'07 minimum elong 10379 Nov 06 07:06 22°\$\Omega\$1	superior conj	10378 Aug 09 01:36	25° Ω 34'09	-0°05'46	max. Earth dist.	10379 Jul 16 22:59	26° 5 21'20	1.36887 AU
behind sun end asc. node 10378 Aug 09 07:30 26°Ω04'25 superior conj 10379 Jul 23 12:37 8°Ω51'57 -0°38'04 asc. node 10378 Aug 10 15:03 26°Ω04'619 minimum elong 10379 Jul 23 15:03 9°Ω03'53 0°38'01 asc. node 10379 Jul 27 12:31 16°Ω4'900 evening rise 10378 Aug 16 16:37 11°\subset 26'\subset 08'\subset 0	minimum elong	10378 Aug 09 01:56	25° Ω 35'54	0°06'00		10379 Jul 18 21:56	$0^{\circ}\Omega$	
asc. node 10378 Aug 09 15:39 26° A46'19 minimum elong 10379 Jul 23 15:03 9° A03'53 0°38'01	behind sun begin	10378 Aug 08 20:23	25° Ω 07'26					
evening rise	behind sun end	10378 Aug 09 07:30	26° Ω 04'25		superior conj	10379 Jul 23 12:37	8° Ω 51'57	-0°38'04
evening rise 10378 Aug 16 16:37 11° 10 26'40 10378 Aug 26 08:33 0° \(\top\) evening max el 10378 Aug 26 08:33 0° \(\top\) evening max el 10378 Sep 04 11:00 12° \(\top\) 17'10 20° 44'34 evening max el 10379 Aug 17 12:07 12	asc. node	10378 Aug 09 15:39	26° Ω 46′19		minimum elong	10379 Jul 23 15:03	9° Ω 03'53	0°38'01
10378 Aug 26 08:33 0°\to 10378 Aug 30 1:45 0°\to 0		10378 Aug 11 05:04	0° m)		asc. node	10379 Jul 27 12:31	16° Ω 49'00	
evening max el 10378 Sep 04 11:00 12°\(\omega\$1710\) 20°\(4\)34\) evening max el 10379 Aug 17 22:07 23°\(\omega\$3213\) 19°\(33\)23\ desc. node 10378 Sep 12 12:50 17°\(\omega\$28'40\) retrograde 10379 Aug 27 15:31 28°\(\omega\$12'40\) retrograde evening set 10378 Sep 15 21:24 17°\(\omega\$57'28\) evening set 10379 Aug 29 11:46 28°\(\omega\$12'02\) evening set 10378 Sep 18 01:49 17°\(\omega\$45'55\) desc. node 10379 Aug 30 10:05 28°\(\omega\$00'12\) inferior conj 10378 Sep 27 05:18 13°\(\omega\$50'04\) -4°14'18 inferior conj 10379 Sep 07 06:23 24°\(\omega\$00'12\) inferior conj 10378 Sep 26 19:26 14°\(\omega\$04'11\) 4°11'23 minimum elong 10379 Sep 06 23:53 24°\(\omega\$17'143\) 2°22'55 min. Earth dist. 10378 Sep 28 03:51 13°\(\omega\$17'145\) 0.54671 AU morning rise 10378 Oct 05 12:58 9°\(\omega\$52'08\) morning mix el 10378 Oct 05 12:55 9°\(\omega\$15'39\) direct 10379 Sep 15 09:43 19°\(\omega\$14'14\) 24°59'20 asc. node 10378 Nov 03 01:42 0°\(\omega\$1.53\) 80:142 0°\(\omega\$1.53\) asc. node 10379 Oct 04 06:58 25°\(\omega\$44'14\) 24°59'20 morning set 10378 Nov 05 16:05 4°\(\omega\$1.21'46\) morning set 10378 Nov 18 10:03 0°\(\omega\$7\) morning set 10378 Nov 21 22:52 7°\(\omega\$38'36\) 1°39'40 superior conj 10379 Nov 06 07:52 22°\(\omega\$1.18'33\) 1°38'54 max. Earth dist. 10378 Nov 08 00:08 26°\(\omega\$1.0370\) 1338 Nov 24 21:38 13°\(\omega\$40'31\) 1°40'07 minimum elong 10379 Nov 08 00:08 26°\(\omega\$1.0370\) 80:08 26°\(\omega\$1.33202\) AU	evening rise	10378 Aug 16 16:37	11° Mp 26'40		evening rise	10379 Jul 31 20:48	25° Ω 35′24	
desc. node		10378 Aug 26 08:33	0∘ 亚			10379 Aug 03 01:45	0° ™	
retrograde 10378 Sep 15 21:24 17°\$\overline{\Omega}\$57'28 evening set 10379 Aug 29 11:46 28°\$\overline{\Omega}\$1202 evening set 10378 Sep 18 01:49 17°\$\overline{\Omega}\$45'55 desc. node 10379 Aug 30 10:05 28°\$\overline{\Omega}\$0012 inferior conj 10378 Sep 27 05:18 13°\$\overline{\Omega}\$50'04 -4°14'18 inferior conj 10379 Sep 07 06:23 24°\$\overline{\Omega}\$07'07'24 -2°25'16 minimum elong 10378 Sep 26 19:26 14°\$\overline{\Omega}\$04'11 4°11'23 minimum elong 10379 Sep 06 23:53 24°\$\overline{\Omega}\$17'43 2°22'55 min. Earth dist. 10378 Sep 28 03:51 13°\$\overline{\Omega}\$17'45 0.54671 AU min. Earth dist. 10379 Sep 09 15:00 22°\$\overline{\Omega}\$7'48 0.55481 AU morning rise 10378 Oct 05 12:58 9°\$\overline{\Omega}\$52'08 morning max el 10379 Sep 15 09:43 19°\$\overline{\Omega}\$40'17 direct 10378 Sep 20 08:25 18°\$\overline{\Omega}\$45'55 morning max el 10378 Nov 03 01:42 0°\$\overline{\Omega}\$. \text{M}\$23°13'06 morning max el 10379 Oct 04 06:58 25°\$\overline{\Omega}\$44'14 24°59'20 asc. node 10378 Nov 05 16:05 4°\$\overline{\Omega}\$122'6 M-20'146 asc. node 10379 Oct 23 12:57 23°\$\overline{\Omega}\$21'35 morning set 10378 Nov 18 10:03 0°\$\overline{\Omega}\$ 7°\$\overline{\Omega}\$38'36 1°39'40 superior conj 10379 Nov 06 07:52 22°\$\overline{\Omega}\$18'33 1°38'54 max. Earth dist. 10378 Nov 24 21:38 13°\$\overline{\Omega}\$40'07 minimum elong 10379 Nov 06 07:06 22°\$\overline{\Omega}\$18'33 1°38'54	evening max el	-	12° ≏ 17'10	20°44'34	•	•		19°33'23
evening set 10378 Sep 18 01:49 17° \$\to 45'55\$ desc. node 10379 Aug 30 10:05 28° \$\to 00'12\$ inferior conj 10378 Sep 27 05:18 13° \$\to 50'04\$ -4°14'18 inferior conj 10379 Sep 07 06:23 24° \$\to 00'724\$ -2°25'16 minimum elong 10378 Sep 26 19:26 14° \$\to 04'11\$ 4°11'23 minimum elong 10379 Sep 06 23:53 24° \$\to 10'743\$ 2°22'55 min. Earth dist. 10378 Sep 28 03:51 13° \$\to 17'45\$ 0.54671 AU min. Earth dist. 10379 Sep 06 23:53 24° \$\to 10'743\$ 2°22'55 min. Earth dist. 10378 Oct 05 12:58 9° \$\to 52'08\$ morning rise 10379 Sep 09 15:00 22° \$\to 37'48\$ 0.55481 AU morning rise 10378 Oct 05 12:58 9° \$\to 52'08\$ morning rise 10379 Sep 15 09:43 19° \$\to 04'017\$ direct 10378 Oct 09 15:55 9° \$\to 15'39\$ direct 10379 Sep 20 08:25 18° \$\to 04'04'14\$ 24° 59'20 morning max el 10378 Oct 22 19:41 15° \$\to 36'08\$ 23° 13'06 morning max el 10379 Oct 04 06:58 25° \$\to 44'14\$ 24° 59'20 asc. node 10378 Nov 03 01:42 0° \$\to 1.0378\$ Nov 05 16:05 4° \$\to 1.0378\$ Nov 05 16:05 4° \$\to 1.0379\$ Oct 08 07:39 0° \$\to 1.0379\$ Oct 23 12:57 23° \$\to 2.1'35\$ morning set 10378 Nov 15 00:12 22° \$\to 4.0'08\$ morning set 10379 Oct 26 22:18 0° \$\to 1.0379\$ Nov 18 10:03 0° \$\to 7.0* morning set 10379 Nov 06 07:52 22° \$\to 1.38'33\$ superior conj 10378 Nov 21 22:52 7° \$\to 38'36\$ 1° 39'40 superior conj 10379 Nov 06 07:52 22° \$\to 1.18'33\$ 1° 38'54 max. Earth dist. 10378 Nov 24 21:38 13° \$\to 55'05\$ 1.33429 AU max. Earth dist. 10379 Nov 08 00:08 26° \$\to 0.00000000000000000000000000000000000	desc. node	10378 Sep 12 12:50	17° ≏ 28'40		retrograde	10379 Aug 27 15:31	28° Mp 21'40	
inferior conj 10378 Sep 27 05:18 13° \(\Delta\)5004 -4°14'18 inferior conj 10379 Sep 07 06:23 24° \(\Delta\)707'24 -2°25'16 minimum elong 10378 Sep 26 19:26 14° \(\Delta\)04'11 4°11'23 minimum elong 10379 Sep 06 23:53 24° \(\Delta\)17'43 2°22'55 min. Earth dist. 10378 Sep 28 03:51 13° \(\Delta\)17'45 0.54671 AU min. Earth dist. 10379 Sep 09 15:00 22° \(\Delta\)37'48 0.55481 AU morning rise 10378 Oct 05 12:58 9° \(\Delta\)52'08 morning rise 10379 Sep 15 09:43 19° \(\Delta\)40'17 direct 10378 Oct 09 15:55 9° \(\Delta\)15'39 direct 10379 Sep 20 08:25 18° \(\Delta\)45'35 morning max el 10378 Nov 03 01:42 0° \(\Delta\). morning max el 10379 Oct 04 06:58 25° \(\Delta\)41'14 24° 59'20 asc. node 10378 Nov 05 16:05 4° \(\Delta\)21'46 asc. node 10379 Oct 23 12:57 23° \(\Delta\)21'35 morning set 10378 Nov 18 10:03 0° \(\Delta\) morning set 10378 Nov 21 22:52 7° \(\Delta\)38'36 1°39'40 superior conj minimum elong 10379 Nov 06 07:52 22° \(\Delta\)21'45 1°38'33 minimum elong 10378 Nov 21 23:13 7° \(\Delta\)40'07 minimum elong 10379 Nov 06 07:06 22° \(\Delta\)18'33 1°38'54 max. Earth dist. 10378 Nov 24 21:38 13° \(\Delta\)5'505 1.33429 AU max. Earth dist. 10379 Nov 08 00:08 26° \(\Delta\)00'08 1.32302 AU	•	-			•	-		
minimum elong m	evening set	10378 Sep 18 01:49	17° ≏ 45'55		desc. node	10379 Aug 30 10:05	28° Mp 00'12	
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evening rise	10379 Nov 13 13:17 10379 Nov 25 09:25	7° メ 49'56 0° る		max. Earth dist.	10380 Oct 21 08:00 10380 Oct 27 16:33	8°M21'59 22°M12'15	1.31649 AU
desc. node evening max el	10379 Nov 26 08:02 10379 Dec 16 13:22	1°る34'29 28°る25'19	27°30'42	desc. node	10380 Oct 31 11:47 10380 Nov 12 05:10	0° 尽 20° 尽 53'40	
C	10379 Dec 18 07:11	0° ≈			10380 Nov 18 10:50	ರ°0	
retrograde	10379 Dec 30 08:22	5° ≈ 44'14		evening max el	10380 Nov 27 19:52	10° る 49'09	27°09'44
evening set	10380 Jan 06 08:40	3° ≈ 19′02		retrograde	10380 Dec 11 17:19	18° පි 00'36	
min. Earth dist.	10380 Jan 10 02:13	0°≈14'00	0.62846 AU	evening set	10380 Dec 18 16:12	15°る52'32	
	10380 Jan 10 08:09	30°₹₹	2010112	min. Earth dist.	10380 Dec 22 10:26	13°る09'08	0.60797 AU
inferior conj minimum elong	10380 Jan 12 21:46	27°る30'10 27°る19'45		inferior conj	10380 Dec 25 13:20	10°る29'22 10°る14'49	
morning rise	10380 Jan 13 02:02 10380 Jan 19 21:41	27 3 1943 22° 3 19'11	2 08 03	minimum elong morning rise	10380 Dec 25 20:08 10381 Jan 02 02:38	5°る37'57	3 22 28
asc. node	10380 Jan 19 12:25	22°る28'00		direct	10381 Jan 04 06:21	5° る 19'15	
direct	10380 Jan 22 04:55	21° る 54'28		asc. node	10381 Jan 05 09:33	5° る 24'36	
morning max el	10380 Jan 28 20:31	25° පි 18'55	17°47'05	morning max el	10381 Jan 11 11:33	8° ප් 56'14	17°57'52
	10380 Feb 01 18:27	0° ≈			10381 Jan 25 04:22	0° ≈	
morning set	10380 Feb 13 22:05	20° ≈ 00'57		morning set	10381 Jan 27 02:19	3° ≈ 30'42	
	10380 Feb 19 15:50	0° ∀					
desc. node	10380 Feb 22 07:50	4°) 33′28		superior conj	10381 Feb 06 08:23	22°≈02'11	0°14'02
	10200 F 1 25 10 10	100 1/2 4/07	0005155	minimum elong	10381 Feb 06 09:35	22°≈07'24	0°14'11
superior conj	10380 Feb 25 19:18	10°) (24'07 10°) (13'11		behind sun begin	10381 Feb 06 05:50	21°≈50'58 22°≈23'49	
minimum elong max. Earth dist.	10380 Feb 25 16:40 10380 Mar 03 08:08	10° X 13'11 21° X 04'28	0°25'18 1.44145 AU	behind sun end desc. node	10381 Feb 06 13:20 10381 Feb 08 04:37	22°≈23′49 25°≈14'32	
max. Earth dist.	10380 Mar 08 23:33	21 γ (04 28	1.44143 AU	desc. Hode	10381 Feb 08 04.37 10381 Feb 10 23:26	25 ≈ 14 52 0° ∀	
evening rise	10380 Mar 11 19:20	4° Υ ′22'53		max. Earth dist.	10381 Feb 13 21:48	4° ¥ 54'11	1.42469 AU
<i>5</i>	10380 Mar 29 00:49	0°8		evening rise	10381 Feb 19 18:32	14°) €24'00	
evening max el	10380 Apr 10 18:20	16° 8 10'11	21°03'37	-	10381 Mar 01 22:18	0° Y	
asc. node	10380 Apr 16 10:31	20° 8 30'11		evening max el	10381 Mar 24 12:37	29° Y 54'28	22°19'44
retrograde	10380 Apr 19 07:24	21° 8 10'33			10381 Mar 24 14:49	0° 8	
evening set	10380 Apr 23 12:57	19° 8 30'03		retrograde	10381 Apr 03 04:35	5° 8 37'28	
inferior conj	10380 Apr 28 19:42	13° 8 18'01	3°04'17	asc. node	10381 Apr 03 07:45	5° 8 37'22	
minimum elong	10380 Apr 28 18:13	13° 8 23'09	3°03'46	evening set	10381 Apr 07 20:59	3° ႘ 41'40 30°ℝ Ƴ	
min. Earth dist. morning rise	10380 Apr 29 05:26 10380 May 03 23:17	12° 8 44'18 7° 8 02'26	0.68336 AU	inferior conj	10381 Apr 11 05:46 10381 Apr 13 04:38	30° γ 1 27° Υ 20'02	2°41'49
direct	10380 May 09 06:07	4° 8 42'50		minimum elong	10381 Apr 13 04:38	27° Y 27'08	2°41'11
morning max el	10380 May 19 19:34	11° 8 00'19	23°29'02	min. Earth dist.	10381 Apr 13 01:36	27° Υ 30'39	0.68627 AU
desc. node	10380 May 20 08:30	11° 8 33'24		morning rise	10381 Apr 18 08:05	21° Y ′09'35	
	10380 Jun 03 21:58	Π°		direct	10381 Apr 23 01:17	19° Ƴ 10'22	
	10380 Jun 23 06:41	0ಂತಾ		morning max el	10381 May 02 07:51	24° Y 35'42	22°00'41
morning set	10380 Jun 23 19:56	0° © 55'47		desc. node	10381 May 07 05:22	0° 8 05'30	
max. Earth dist.	10380 Jun 27 19:45	7° © 46'59	1.39149 AU		10381 May 07 03:34	0°8	
	10200 1 1 05 00 56	210620124	1011112		10381 May 28 08:06	0°II	
superior conj	10380 Jul 05 09:56 10380 Jul 05 14:41	21° © 29'34 21° © 51'47		morning set max. Earth dist.	10381 Jun 04 05:00 10381 Jun 09 19:43	10°Щ48'26 20°Щ00'06	1.41395 AU
minimum elong	10380 Jul 09 21:40	21 3 3147 0° Ω	1 10 30	max. Earth dist.	10381 Jun 15 16:23	20 1 00 00 0°€	1.41393 AU
asc. node	10380 Jul 13 09:25	6° Ω 44'58			10301 3411 13 10.23	0 3	
evening rise	10380 Jul 14 17:37	9° Ω 21'04		superior conj	10381 Jun 17 13:01	3° © 15'43	-1°41'45
C	10380 Jul 26 09:07	0° m		minimum elong	10381 Jun 17 19:21		1°41'34
evening max el	10380 Jul 30 21:32	5° m 32'51	18°43'21	evening rise	10381 Jun 28 03:25	22° © 33'43	
retrograde	10380 Aug 08 02:37	9° m 38'51		asc. node	10381 Jun 30 06:23	26° © 29'24	
evening set	10380 Aug 10 02:00	9° m/25'28			10381 Jul 02 04:24	$0^{\circ}\Omega$	
desc. node	10380 Aug 16 07:20	6° Mp 20'34	0000100	evening max el	10381 Jul 14 05:29	18° Ω 10'25	18°13'59
inferior conj	10380 Aug 18 02:39	5° Mp 02'26		retrograde	10381 Jul 21 08:53	21°Ω47'00	
minimum elong min. Earth dist.	10380 Aug 18 01:17 10380 Aug 21 06:41	5° Mp 04'58 2° Mp 42'55	0°33'11 0.57083 AU	evening set inferior conj	10381 Jul 23 15:18 10381 Jul 30 20:41	21° Ω 25'50 16° Ω 42'10	0°59'00
morning rise	10380 Aug 21 00.41 10380 Aug 25 21:11	2° Ω 58'02	0.57085 AU	minimum elong	10381 Jul 30 22:33	16° Ω 38'07	0°57'58
morning 1150	10380 Aug 25 19:28	30°RΩ		min. Earth dist.	10381 Aug 03 05:09	13° Ω 49'23	0.59180 AU
direct	10380 Aug 31 14:32	28° Ω 37'55		desc. node	10381 Aug 03 04:34	13° Ω 50'34	
	10380 Sep 06 11:30	0° m		morning rise	10381 Aug 07 02:31	11° Ω 04'01	
morning max el	10380 Sep 14 21:35	6° Mp 05′20	26°30'52	direct	10381 Aug 13 10:18	9° Ω 14'18	
	10380 Oct 02 12:15	0∘ ⊽		morning max el	10381 Aug 27 19:12	17° Ω 02'39	27°32'40
asc. node	10380 Oct 09 09:49	12° 2 46'56			10381 Sep 07 12:24	0° my	
morning set	10380 Oct 13 22:17	22° Ω 06'05		1	10381 Sep 25 01:03	0° ™	
	10380 Oct 17 13:31	0° M ,		asc. node morning set	10381 Sep 26 06:40 10381 Sep 28 05:38	2° Ω 30'05 6° Ω 33'56	
superior conj	10380 Oct 20 19:11	7° ጤ 10'47	1°31'36	max. Earth dist.	10381 Sep 28 05:38 10381 Oct 04 17:37		1.31468 AU
minimum elong	10380 Oct 20 17:11 10380 Oct 20 17:33	7°M01'41		man Durin dist.	10001 Oct 07 17.07		1.51 100 /10

superior conj	10381 Oct 05 06:54	21° ≏ 56′18	1°19'09	superior conj	10382 Sep 19 17:13	6° ≏ 34'01	1°01'28
minimum elong	10381 Oct 05 04:45	21° ≏ 44'21	1°19'00	minimum elong	10382 Sep 19 15:00	6° £ 21'52	1°01'05
	10381 Oct 08 22:04	0° M		evening rise	10382 Sep 26 11:16	21° ≏ 23'14	
evening rise	10381 Oct 12 00:34	6° M 45′14			10382 Sep 30 14:08	0° M	
	10381 Oct 24 01:19	0° ∡		desc. node	10382 Oct 16 23:35	27°M05'20	
desc. node	10381 Oct 30 02:21	9° ∡ ¹29'37			10382 Oct 19 10:25	0° ∡ ¹	
evening max el	10381 Nov 09 19:00	22° ∡ ¹22'37	26°14'46	evening max el	10382 Oct 22 09:57		24°51'05
retrograde	10381 Nov 23 17:00	29° ∡ ¹27'12		retrograde	10382 Nov 05 05:42	10° ∡ °02′28	
evening set	10381 Nov 30 04:52	27° ∡ ¹45'33		evening set	10382 Nov 10 18:07	8° ∡ 754'10	
min. Earth dist.	10381 Dec 04 08:06	25° ∡ 10'45	0.58684 AU	min. Earth dist.	10382 Nov 15 21:32	6° ₹ 09'43	0.56750 AU
inferior conj	10381 Dec 07 11:36	22° ∡ 50′45	-4°36'26	inferior conj	10382 Nov 18 13:47	4° ∡ ¹25'48	-5°29'26
minimum elong	10381 Dec 07 19:32	22° ∡ ³35'59	4°33'55	minimum elong	10382 Nov 18 19:11	4° ∡ 17'01	5°28'20
morning rise	10381 Dec 15 12:47	18° ∡ ¹21'45		morning rise	10382 Nov 26 22:31	0° ∡ 18'55	
direct	10381 Dec 17 17:01	18° ∡ ¹05'46		direct	10382 Nov 29 08:58	0° ∡ '02'19	
asc. node	10381 Dec 23 06:38	19° ∡ 757'17		morning max el	10382 Dec 08 19:38	4° ∡ ³33′06	19°21'15
morning max el	10381 Dec 25 20:33	22° ∡ ¹04'43	18°28'41	asc. node	10382 Dec 10 03:41	5° ∡ ¹55'03	
	10382 Jan 01 00:33	0°₹			10382 Dec 24 20:25	0°₹	
morning set	10382 Jan 10 19:22	17° る 35'25		morning set	10382 Dec 25 21:01	2° る 02'28	
	10382 Jan 17 06:59	0° ≈					
				superior conj	10383 Jan 02 23:22	18° そ 09'31	1°11'37
superior conj	10382 Jan 19 19:26	4° ≈ 42'21	0°46'56	minimum elong	10383 Jan 03 02:24	18° る 24'12	1°11'43
minimum elong	10382 Jan 19 22:21	4° ≈ 55'48	0°46'56		10383 Jan 09 05:47	0° ≈	
desc. node	10382 Jan 26 01:29	15° ≈ 56'58		max. Earth dist.	10383 Jan 09 12:22	0° ≈ 30'01	1.38199 AU
max. Earth dist.	10382 Jan 27 06:36	18° ≈ 03'24	1.40404 AU	desc. node	10383 Jan 12 22:22	6° ≈ 36'36	
evening rise	10382 Jan 31 13:37	25° ≈ 19'18		evening rise	10383 Jan 13 06:11	7° ≈ 10'51	
	10382 Feb 03 10:11	0° ∀			10383 Jan 27 08:16	0° ∀	
	10382 Feb 23 16:32	0 ° Υ		evening max el	10383 Feb 17 16:47	27° ₩ 30′23	24°58'15
evening max el	10382 Mar 07 03:25	13° Ƴ 41'14	23°40'04		10383 Feb 20 09:56	0° Y	
retrograde	10382 Mar 17 23:03	20° Ƴ 04'11		retrograde	10383 Mar 01 13:32	4° Ƴ 24'27	
asc. node	10382 Mar 21 04:59	19° Ƴ 14'05		evening set	10383 Mar 07 05:41	2° Y 02'49	
evening set	10382 Mar 23 03:06	17° Y ′54'20		asc. node	10383 Mar 08 02:13	1° Y 16'04	
min. Earth dist.	10382 Mar 27 22:16	12° Ƴ 18'17	0.68479 AU		10383 Mar 09 07:13	30° Ŗ ₩	
inferior conj	10382 Mar 28 13:25	11° Y ′26′25	2°09'51	min. Earth dist.	10383 Mar 11 17:13	27° 米 01'35	0.67916 AU
minimum elong	10382 Mar 28 11:14	11° Y 33'55	2°09'09	inferior conj	10383 Mar 12 20:09	25°) 32′59	1°28'40
morning rise	10382 Apr 02 19:22	5° Y 22'15		minimum elong	10383 Mar 12 18:17	25°) € 39'08	1°28'06
direct	10382 Apr 06 23:12	3° Ƴ 44'55		morning rise	10383 Mar 18 07:09	19° ¥ 36′25	
morning max el	10382 Apr 15 02:09	8° Y 22'44	20°40'30	direct	10383 Mar 21 22:31	18° ¥ 20′16	
desc. node	10382 Apr 24 02:12	19° Ƴ 19'13		morning max el	10383 Mar 29 04:03	22°) € 20'47	19°33'20
	10382 May 01 14:25	$_{0\circ}$ 8			10383 Apr 04 14:00	0° Y	
morning set	10382 May 14 13:37	19° 8 36'53		desc. node	10383 Apr 10 23:00	9° Ƴ 02'47	
	10382 May 21 03:45	$\Pi^{\circ}0$		greatest brilliancy	10383 Apr 10 20:30	8° Y 53'37	-0.7m
max. Earth dist.	10382 May 23 01:56	3° Ⅱ 05'36	1.43347 AU	morning set	10383 Apr 23 12:21	28° Ƴ 03'49	
					10383 Apr 24 18:30	0° 8	
superior conj	10382 May 29 17:34	14° Ⅱ 01'36	-2°04'32	max. Earth dist.	10383 May 05 14:30	16° 8 54'22	1.44781 AU
minimum elong	10382 May 29 22:47	14° Ⅲ 23′26	2°04'43				
	10382 Jun 08 00:57	0ಂತಾ		superior conj	10383 May 09 21:48	23° 8 45'22	-2°13'00
evening rise	10382 Jun 10 21:46	5° 5 02'48		minimum elong	10383 May 09 21:29	23° 8 44'08	2°13'22
asc. node	10382 Jun 17 03:25	15° © 57'36			10383 May 13 18:39	Π° 0	
	10382 Jun 26 13:24	$0^{\circ}\Omega$		evening rise	10383 May 23 19:40	16° Ⅲ 36'31	
evening max el	10382 Jun 27 18:06	1° Ω 15'57	18°04'20		10383 May 31 20:20	0°99	
retrograde	10382 Jul 04 07:05	4° Ω 38′07		asc. node	10383 Jun 04 00:28	5° 5 02'57	
evening set	10382 Jul 06 21:20	4° Ω 05'56		evening max el	10383 Jun 11 07:52	14°9340'05	18°13'32
	10382 Jul 12 10:52	30° Ŗ ூ		retrograde	10383 Jun 17 16:39	18° © 02'13	
inferior conj	10382 Jul 13 10:08	29° © 02'45	2°05'34	evening set	10383 Jun 20 14:48	17° © 16'38	
minimum elong	10382 Jul 13 12:56	28°955'45	2°04'19	inferior conj	10383 Jun 26 14:54	11° © 55'37	2°48'13
min. Earth dist.	10382 Jul 16 12:11	25° © 59'29	0.61452 AU	minimum elong	10383 Jun 26 17:13	11° 5 49'07	2°47'17
morning rise	10382 Jul 20 02:06	23° © 01'14		min. Earth dist.	10383 Jun 29 04:26	9° 5 04'06	0.63616 AU
desc. node	10382 Jul 21 01:44	22° © 23'40		morning rise	10383 Jul 02 18:09	5° © 41'12	
direct	10382 Jul 26 17:57	20° © 43'59		desc. node	10383 Jul 07 22:51	3° © 12'26	
morning max el	10382 Aug 09 23:32	28°5944'48	27°56'46	direct	10383 Jul 09 11:03	3°904'52	
<i>5</i> 22	10382 Aug 11 04:56	0° Ω		morning max el	10383 Jul 23 08:13		27°43'06
	10382 Sep 01 09:43	0° m)		0	10383 Aug 07 05:40	0° Ω	
morning set	10382 Sep 01 05:45	20° Mp 44'41			10383 Aug 24 19:42	0° m)	
asc. node	10382 Sep 12 03:30	22° m/ 25'31		morning set	10383 Aug 27 03:07	4° m ₂ 32'13	
	10382 Sep 16 17:06	0° ت		asc. node	10383 Aug 31 00:21	12° m ₂ 28'35	
max. Earth dist.	10382 Sep 18 01:01		1.31775 AU	max. Earth dist.	10383 Sep 01 02:28	-	1.32582 AU
Luiui Uidi.	10502 50p 10 01.01		2.52, 15110	man. Dartii Gist.	-0000 5 c p 01 02.20	111 13 30	

superior conj	10383 Sep 04 00:11	20° m 58'30	0°38'49	superior conj	10384 Aug 18 01:33	5° m 02'33	0°11'40
	•			1 0	•		
minimum elong	10383 Sep 03 22:28	20° m/49'15	0°38'22	minimum elong	10384 Aug 18 00:57	4° M 59'24	0°11'18
	10383 Sep 08 03:52	0∘ ⊽		behind sun begin	10384 Aug 17 20:53	4° m/38'05	
evening rise	10383 Sep 10 22:47	6° ₽ 01'08		behind sun end	10384 Aug 18 05:01	5° Mp 20'44	
	10383 Sep 23 13:13	0°M		evening rise	10384 Aug 25 09:09	20° m/32'28	
desc. node	10383 Oct 03 20:49	13°M18'12			10384 Aug 30 00:06	0∘ ত	
evening max el	10383 Oct 03 20:48	13°M18'10	23°11'58	evening max el	10384 Sep 14 11:55		21°34'27
retrograde	10383 Oct 17 05:34	19° ™ 57'46		desc. node	10384 Sep 19 18:04	27° ≏ 38'30	
evening set	10383 Oct 21 08:01	19°M21'10		retrograde	10384 Sep 26 18:51	29° ≏ 38'31	
min. Earth dist.	10383 Oct 28 06:17	16° ™ 08'51	0.55309 AU	evening set	10384 Sep 29 12:20	29° ≏ 21'35	
inferior conj	10383 Oct 29 20:25	15°M₁3'26	-5°43'52	inferior conj	10384 Oct 08 14:04	25° ≏ 24'59	-5°02'38
minimum elong	10383 Oct 29 18:35	15° ™ 16′06	5°43'29	minimum elong	10384 Oct 08 05:14	25° ≏ 37'21	5°00'39
morning rise	10383 Nov 07 06:56	11°ML22'39		min. Earth dist.	10384 Oct 08 13:32	25° ≙ 25'45	0.54642 AU
direct	10383 Nov 10 06:20	11° M 01'31		morning rise	10384 Oct 16 23:09	21° ≏ 36′04	
morning max el	10383 Nov 21 05:39	16° M ₊12'29	20°36'30	direct	10384 Oct 20 15:47	21° ≏ 06'29	
asc. node	10383 Nov 27 00:39	23°ML02'16		morning max el	10384 Nov 02 02:23	27° ♀ 01'12	22°12'07
	10383 Dec 01 11:25	0° ∡ ™			10384 Nov 04 23:24	0° M	
morning set	10383 Dec 10 04:15	16° ∡ ¹43'28		asc. node	10384 Nov 12 21:35	11°ML02'46	
Ü	10383 Dec 16 14:04	ರ°0			10384 Nov 22 21:24	0° ∡ ¹	
				morning set	10384 Nov 23 14:42	1° ∡ ′30'43	
superior conj	10383 Dec 17 15:42	2° る 11'07	1°28'13				
minimum elong	10383 Dec 17 17:56	2°る22'27	1°28'32	superior conj	10384 Nov 30 16:41	16° ∡ ³35'35	1°37'26
max. Earth dist.	10383 Dec 22 20:17	12° る 30'22	1.36102 AU	minimum elong	10384 Nov 30 17:45	16° 🗷 41'11	1°37'52
evening rise	10383 Dec 22 20.17 10383 Dec 26 17:53	12 3 5022	1.50102 AU	max. Earth dist.	10384 Nov 30 17:43 10384 Dec 04 10:42	24° × ⁷ 24'03	1.34296 AU
desc. node		19 3 32 14 27° る 09'43		max. Earm dist.	10384 Dec 04 10.42 10384 Dec 07 05:30	24 x·2403	1.34290 AU
desc. node	10383 Dec 30 19:20						
	10384 Jan 01 10:40	0° ≈		evening rise	10384 Dec 08 20:54	3°る12'40	
	10384 Jan 21 09:18	0°) {	2.00.510.2	desc. node	10384 Dec 16 16:20	17° る 30'54	
evening max el	10384 Jan 31 06:17	11°) 19'30	26°07'02		10384 Dec 24 07:39	0° ≈	26050110
retrograde	10384 Feb 12 23:02	18°) (32'41		evening max el	10385 Jan 12 19:50	24°≈59'54	26°59'10
evening set	10384 Feb 19 03:04	16° ∺ 02'29			10385 Jan 19 01:23	0° ∀	
asc. node	10384 Feb 22 23:25	12° 米 02'32		retrograde	10385 Jan 26 02:40	2° ∺ 21'24	
min. Earth dist.	10384 Feb 23 08:11	11°) 35′56	0.66960 AU		10385 Feb 01 10:48	30°R ≈	
inferior conj	10384 Feb 24 22:52	9° ∺ 36′09	0°38'24	evening set	10385 Feb 01 17:22	29° ≈ 47'24	
minimum elong	10384 Feb 24 21:54	9° ∺ 39'08	0°38'13	min. Earth dist.	10385 Feb 05 16:53	25° ≈ 54'53	0.65623 AU
morning rise	10384 Mar 01 17:25	3°) 49′02		inferior conj	10385 Feb 07 19:23	23° ≈ 30'37	-0°20'50
direct	10384 Mar 04 21:37	2°) 51′41		minimum elong	10385 Feb 07 19:58	23° ≈ 28′56	0°20'17
morning max el	10384 Mar 11 13:19	6°) €27'23	18°41'48	asc. node	10385 Feb 08 20:35	22° ≈ 19′16	
desc. node	10384 Mar 27 19:46	29° ₭ 08'28		morning rise	10385 Feb 13 23:51	17° ≈ 55'27	
	10384 Mar 28 09:00	$0^{\circ}\mathbf{\Upsilon}$		direct	10385 Feb 16 18:25	17° ≈ 13'41	
morning set	10384 Apr 02 00:59	7° Y 17'55		morning max el	10385 Feb 23 04:03	20° ≈ 36'33	18°07'00
-	10384 Apr 16 13:16	0°8		-	10385 Mar 02 11:15	0° ∀	
max. Earth dist.	10384 Apr 17 08:14	1° 8 14'10	1.45549 AU	morning set	10385 Mar 13 17:45	17° ¥ 57′29	
	1			desc. node	10385 Mar 14 16:34	19° ¥ 30′08	
superior conj	10384 Apr 18 07:38	2° 8 45'50	-2°01'48		10385 Mar 21 04:45	0° Υ	
minimum elong	10384 Apr 18 00:12	2° 8 16'40				-	
evening rise	10384 May 03 17:45	27° 8 10'18	2 0130	superior conj	10385 Mar 28 14:57	11° Y '46'52	-1°31'41
evening rise	10384 May 05 12:07	0°Ⅱ		minimum elong	10385 Mar 28 05:38	11° Y 10'09	
greatest brilliancy	10384 May 11 01:05	8° П 51'51	-0.9m	max. Earth dist.	10385 Mar 31 04:22	15° Υ 47'55	1.45571 AU
asc. node	10384 May 20 21:32	23° I I37'38	-0.7111	max. Lattii dist.	10385 Apr 09 07:06	0° 8	1.433/1 AO
	•	28° I I15'06	18°40'41	ovenina riae	10385 Apr 09 07:00 10385 Apr 13 17:57	6° 8 54'18	
evening max el	10384 May 24 19:51	28 п 1300	18 40 41	evening rise	•	_	0.7
	10384 May 26 19:16			greatest brilliancy	10385 Apr 26 06:56	26° ႘ 09'06	-U. /III
retrograde	10384 May 31 09:36	1°950'41		,	10385 Apr 28 21:23	0° П	
evening set	10384 Jun 03 15:45	0°\$50'14		asc. node	10385 May 07 18:39	11° Ⅲ 32'04	
	10384 Jun 04 19:53	30°RⅡ		evening max el	10385 May 08 03:47	11° Ⅲ 55'29	19°24'42
inferior conj	10384 Jun 09 06:59	25° Ⅲ 12'46	3°11'11	retrograde	10385 May 15 06:43	15° Ⅲ 56'55	
minimum elong	10384 Jun 09 08:13	25° Ⅱ 09'00	3°10'34	evening set	10385 May 18 21:18	14° Ⅱ 40'57	
min. Earth dist.	10384 Jun 11 05:35	22° II 50'05	0.65483 AU	inferior conj	10385 May 24 07:03	8° Ⅱ 48'30	3°18'21
morning rise	10384 Jun 14 23:54	18° Ⅲ 53'01		minimum elong	10385 May 24 07:05	8° Ⅱ 48'23	3°17'54
direct	10384 Jun 21 11:44	16° Ⅱ 08'55		min. Earth dist.	10385 May 25 14:36	7° Ⅱ 05'02	0.66946 AU
desc. node	10384 Jun 23 19:55	16° Ⅲ 27'36		morning rise	10385 May 29 16:29	2° Ⅲ 28′08	
morning max el	10384 Jul 04 18:43	24° Ⅱ 00'33	26°56'47		10385 Jun 03 00:16	30°₽ ႘	
	10384 Jul 10 03:26	0 \circ \odot		direct	10385 Jun 04 18:50	29° 8 47'09	
	10384 Jul 30 15:00	$0^{\circ}\Omega$			10385 Jun 06 15:07	$\Pi^{\circ}0$	
morning set	10384 Aug 09 11:55	17° Ω 47'45		desc. node	10385 Jun 10 16:56	1° Ⅱ 46'35	
max. Earth dist.	10384 Aug 13 18:40	26° Ω 13′04	1.33900 AU	morning max el	10385 Jun 17 05:07	7° Ⅱ 13'22	25°46'05
	10384 Aug 15 15:16	0° m)			10385 Jul 04 22:00	0ಂಣ	
asc. node	10384 Aug 16 21:09	2° m/34'23		morning set	10385 Jul 23 06:47	0° Ω 22'01	
				S			

	10385 Jul 23 01:58	0°N		max. Earth dist.	10386 Jul 08 22:44	18° © 30'51	1.37831 AU
max. Earth dist.	10385 Jul 27 00:34	7° Ω 21'19	1.35687 AU	max. Earth dist.	10386 Jul 15 03:21	0°Ω	1.57051710
superior conj	10385 Aug 01 18:42	18° Ω 39'17	-0°19'11	superior conj	10386 Jul 16 00:19	1° Ω 40′23	-0°52'12
minimum elong	10385 Aug 01 19:52	18° Ω 45'10	0°19'18	minimum elong	10386 Jul 16 03:45	1° Ω 56′53	0°52'02
asc. node	10385 Aug 03 18:00	22° Ω 39′19		asc. node	10386 Jul 21 14:53	12° Ω 39′16	
	10385 Aug 07 07:42	0° ™		evening rise	10386 Jul 24 17:42	18° Ω 51′00	
evening rise	10385 Aug 09 16:17	4° Mp 51′28			10386 Jul 30 12:22	0° ™	
	10385 Aug 23 21:02	0∘ ⊽		evening max el	10386 Aug 10 07:27	15° m 54'01	19°09'31
evening max el	10385 Aug 27 14:51	4° Ω 19'58	20°11'44	retrograde	10386 Aug 19 08:37	20° m 24'05	
desc. node	10385 Sep 06 15:17	9° ≏ 37'41		evening set	10386 Aug 21 05:08	20° m 13'31	
retrograde	10385 Sep 07 07:52	9° Ω 38'57		desc. node	10386 Aug 24 12:32	19° m)07'19	
evening set	10385 Sep 09 06:59	9° Ω 29'00		inferior conj	10386 Aug 29 16:42	16° Mp 01'43	
inferior conj	10385 Sep 18 08:17	5° Ω 30'30		minimum elong	10386 Aug 29 12:28	16° Mp 08'52	1°35'01
minimum elong	10385 Sep 17 23:15	5° Ω 43'53	3°27'28	min. Earth dist.	10386 Sep 01 11:28	14° Mp 09'18	0.56072 AU
min. Earth dist.	10385 Sep 19 22:28	4° £ 33'55	0.54907 AU	morning rise	10386 Sep 06 16:48	11° m) 18'34	
morning rise	10385 Sep 26 14:35	1° £ 22'19		direct	10386 Sep 11 23:26	10° Mp 14'02	25041112
direct	10385 Oct 01 01:44	0° Ω 39'15	22050150	morning max el	10386 Sep 26 03:11	17° Mp 26'44 0° <u>₽</u>	25°41'13
morning max el asc. node	10385 Oct 14 14:59	7° £ 16'12 29° £ 43'58	23°58'58	asc. node	10386 Oct 06 11:45	18° £ 55'34	
asc. node	10385 Oct 30 18:29 10385 Oct 30 22:00	29° 32 43′38 0° M		asc. node	10386 Oct 17 15:22 10386 Oct 23 01:57	0°M	
morning set	10385 Oct 30 22:00 10385 Nov 08 02:27	16°M18'55		morning set	10386 Oct 23 13:50	1°M03'18	
morning set	10385 Nov 08 02:27 10385 Nov 14 09:43	10 IIC1033		morning set	10380 Oct 23 13.30	1 11603 10	
	10363 1107 14 09.43	0 🗴		superior conj	10386 Oct 30 09:44	16°M01'46	1°36'19
superior conj	10385 Nov 14 23:28	1° √ 14'47	1°39'57	minimum elong	10386 Oct 30 08:34	15°M55'18	1°36'34
minimum elong	10385 Nov 14 23:20	1°×11'02		max. Earth dist.	10386 Oct 31 14:08	18°M38'24	1.31958 AU
max. Earth dist.	10385 Nov 17 09:03	6° ₹ 25'19	1.32898 AU	man. Darum dist.	10386 Nov 05 20:34	0° ₹	1.51700110
evening rise	10385 Nov 22 11:41	17° х 03′12	-10-07-07-0	evening rise	10386 Nov 06 11:09	1° √ 16'11	
Č	10385 Nov 29 05:44	ರ°0		desc. node	10386 Nov 20 10:27	27° ∡ 12'46	
desc. node	10385 Dec 03 13:22	7° る 34'22			10386 Nov 22 04:19	ರ°0	
	10385 Dec 18 19:14	0° ≈		evening max el	10386 Dec 08 17:32	21° පි 08'16	27°25'56
evening max el	10385 Dec 26 08:14	8° ≈ 20'06	27°27'29	retrograde	10386 Dec 22 14:02	28° る 25'03	
retrograde	10386 Jan 08 23:54	15° ≈ 41'52		evening set	10386 Dec 29 14:42	26° る 05'37	
evening set	10386 Jan 15 22:12	13° ≈ 10'42		min. Earth dist.	10387 Jan 02 07:42	23° る 11'10	0.61991 AU
min. Earth dist.	10386 Jan 19 17:12	9° ≈ 50'00	0.63943 AU	inferior conj	10387 Jan 05 07:05	20° る 26'53	-2°41'56
inferior conj	10386 Jan 22 07:06	7° ≈ 09'52	-1°28'21	minimum elong	10387 Jan 05 12:29	20° る 14'25	2°39'24
minimum elong	10386 Jan 22 09:54	7° ≈ 02'37	1°26'47	morning rise	10387 Jan 12 12:46	15° る 24'10	
asc. node	10386 Jan 26 17:46	3° ≈ 05′22		asc. node	10387 Jan 13 14:56	15° る 08'13	
morning rise	10386 Jan 28 23:32	1° ≈ 49′28		direct	10387 Jan 14 17:59	15° る 02'33	
direct	10386 Jan 31 10:16	1°≈19'38		morning max el	10387 Jan 21 14:29	18° පි 31'14	17°49'21
morning max el	10386 Feb 06 21:29	4° ≈ 40'34	17°49'20		10387 Jan 29 22:15	0° ≈	
morning set	10386 Feb 23 14:23	29°≈58'09		morning set	10387 Feb 06 09:00	13°≈01'24	
	10386 Feb 23 14:49	0°) {		desc. node	10387 Feb 16 10:08	0°){ 41'49	
desc. node	10386 Mar 01 13:20	10°) 02'31			10387 Feb 16 00:23	0° ∀	
superior conj	10386 Mar 08 13:34	21°) 35'30	0°50'29	superior conj	10387 Feb 17 12:32	2°) (34′22	0.06110
minimum elong	10386 Mar 08 08:05	21° X 13'13		minimum elong	10387 Feb 17 12.32 10387 Feb 17 11:47	2° H 34'22 2° H 31'07	
minimum ciong	10386 Mar 13 19:28	0° Υ	0 4743	behind sun begin	10387 Feb 17 04:09	1° H 58'41	0 0/3/
max. Earth dist.	10386 Mar 13 23:36	0°Υ16'24	1.44855 AU	behind sun end	10387 Feb 17 19:24	3°) €03'29	
evening rise	10386 Mar 24 06:02	16°Υ15'52	1.11033710	max. Earth dist.	10387 Feb 24 15:19	14° ¥ 23'02	1.43491 AU
	10386 Apr 02 07:36	0°8		evening rise	10387 Mar 03 21:17	25°) 53'49	,
evening max el	10386 Apr 21 06:17	25° 8 37'34	20°23'50		10387 Mar 06 12:59	0°Υ	
asc. node	10386 Apr 24 15:49	28° 8 33'31			10387 Mar 27 06:25	0° ႘	
	10386 Apr 27 13:03	$\Pi^{\circ}0$		evening max el	10387 Apr 04 03:18	9° 8 21'05	21°35'02
retrograde	10386 Apr 29 05:27	0° Ⅱ 14'55		asc. node	10387 Apr 11 13:02	14° 8 27'16	
	10386 Apr 30 20:31	30°₹ ႘		retrograde	10387 Apr 13 03:46	14° 8 40'04	
evening set	10386 May 03 05:13	28° 8 43'20		evening set	10387 Apr 17 13:42	12° 8 53'07	
inferior conj	10386 May 08 12:21	22° 8 37'40	3°12'37	inferior conj	10387 Apr 22 20:36	6° 8 36'30	2°55'57
minimum elong	10386 May 08 11:21	22° 8 41'05	3°12'10	minimum elong	10387 Apr 22 18:50		2°55'23
min. Earth dist.	10386 May 09 05:43	21° 8 38'09	0.67959 AU	min. Earth dist.	10387 Apr 23 00:49	6° 8 21'46	0.68515 AU
morning rise	10386 May 13 17:14	16° 8 19'35		morning rise	10387 Apr 27 23:46	0° 8 22'39	
direct	10386 May 19 07:29	13° 8 50'25			10387 Apr 28 10:31	30° ŖƳ	
desc. node	10386 May 28 13:54	18° 8 39'27		direct	10387 May 03 00:46	28° Y 11'19	
morning max el	10386 May 30 14:47	20° 8 36'47	24°20'42		10387 May 08 04:08	0°8	2205011:
	10386 Jun 07 16:12	0° I I		morning max el	10387 May 13 01:08		22°50'44
morning sot	10386 Jun 28 02:51	0°©		desc. node	10387 May 15 10:50	6° 8 41′10 0° Ⅱ	
morning set	10386 Jul 05 07:00	12° © 02'50			10387 Jun 01 20:23	υщ	

morning got	10297 Jun 16 07:24	22° ∏ 37'25		direct	10200 Amr 15 21:24	12° Ƴ 42'34	
morning set	10387 Jun 16 07:24 10387 Jun 20 16:48	22° Ц 3723		direct morning max el	10388 Apr 15 21:24 10388 Apr 24 15:28	12° Y 42′34 17° Y 46′38	21°25'04
max. Earth dist.	10387 Jun 20 19:35	0°5511'53	1.40123 AU	desc. node	10388 Apr 24 13.28 10388 May 01 07:42	25° Y 32'27	21 23 04
max. Lattii dist.	10307 Juli 20 17.33	0 31133	1.40123 AU	desc. node	10388 May 04 16:21	0° 8	
superior conj	10387 Jun 28 14:25	13° © 56'53	-1°24'46		10388 May 24 22:46	0°II	
minimum elong	10387 Jun 28 20:02	14°522'28	1°24'29	morning set	10388 May 26 05:11	1° ∏ 59'49	
minimum ciong	10387 Jul 07 04:13	0°Ω	1 2 1 2)	max. Earth dist.	10388 Jun 01 21:44		1.42280 AU
evening rise	10387 Jul 08 10:18	2° Ω 23'18		max. Earth dist.	10300 3411 01 21.11	12 10 12	1.12200710
asc. node	10387 Jul 08 11:49	2°Ω30'30		superior conj	10388 Jun 09 08:26	25° Ⅱ 18'48	-1°52'45
evening max el	10387 Jul 24 11:00	28° Ω 11'19	18°28'26	minimum elong	10388 Jun 09 14:45	25° I I46'04	
	10387 Jul 26 13:28	0° m)			10388 Jun 12 01:06	0°9	
retrograde	10387 Aug 01 03:47	2° m) 02'45		evening rise	10388 Jun 20 14:07	15° © 18'41	
evening set	10387 Aug 03 05:54	1° m 46'35		asc. node	10388 Jun 24 08:48	22° © 08'42	
8	10387 Aug 07 03:39	30°RΩ			10388 Jun 28 21:13	$0^{\circ}\Omega$	
inferior conj	10387 Aug 10 22:14	27°Ω15'11	0°08'48	evening max el	10388 Jul 06 21:30	11° Ω 02'37	18°07'35
minimum elong	10387 Aug 10 22:32	27° Ω 14'33	0°08'23	retrograde	10388 Jul 13 17:13	14° Ω 30'51	
transit middle	10387 Aug 10 22:32	27° Ω 14'33	0°08'23	evening set	10388 Jul 16 03:06	14° Ω 05'12	
transit begin	10387 Aug 10 19:30	27° Ω 20'35		inferior conj	10388 Jul 23 00:58	9° Ω 13'06	1°30'24
transit end	10387 Aug 11 01:35	27° Ω 08'31		minimum elong	10388 Jul 23 03:29	9° Ω 07'20	1°29'10
desc. node	10387 Aug 11 09:47	26° Ω 52'15		min. Earth dist.	10388 Jul 26 07:49	6° Ω 13'03	0.60148 AU
min. Earth dist.	10387 Aug 14 06:01	24° Ω 38'35	0.57931 AU	desc. node	10388 Jul 28 07:00	4° Ω 36′26	
morning rise	10387 Aug 18 11:38	21° Ω 55′18		morning rise	10388 Jul 30 00:56	3° Ω 24'02	
direct	10387 Aug 24 11:59	20° Ω 22'20		direct	10388 Aug 05 13:14	1° Ω 21'46	
morning max el	10387 Sep 07 20:29	28° Ω 00′29	27°01'30	morning max el	10388 Aug 19 20:53	9° Ω 15'56	27°47'42
	10387 Sep 09 19:21	0° m y			10388 Sep 04 19:43	0° m y	
	10387 Sep 30 03:11	0∘ ⊽		asc. node	10388 Sep 20 09:02	28° m 17'43	
asc. node	10387 Oct 04 12:13	8° ≏ 28'51		morning set	10388 Sep 21 04:34	29° m 59'04	
morning set	10387 Oct 07 23:07	15° ≏ 38'06			10388 Sep 21 04:44	0∘ ত	
				max. Earth dist.	10388 Sep 27 08:05	13° ≏ 15′18	1.31538 AU
superior conj	10387 Oct 14 21:26	0° M 49′16	1°26'59				
minimum elong	10387 Oct 14 19:32	0° M .38'41	1°27'00	superior conj	10388 Sep 28 08:47	15° ≏ 32'06	1°12'16
	10387 Oct 14 12:35	0° M		minimum elong	10388 Sep 28 06:33	15° ≏ 19'43	1°12'02
max. Earth dist.	10387 Oct 14 22:57	0° ™ 57'38	1.31502 AU		10388 Oct 04 22:28	0° M	
evening rise	10387 Oct 21 16:40	15°M43'30		evening rise	10388 Oct 05 02:05	0°M₁9′28	
	10387 Oct 28 19:02	0° ∡			10388 Oct 21 02:37	0° ∡ ¹	
desc. node	10387 Nov 07 07:36	16° ∡ 15′10		desc. node	10388 Oct 24 04:47	4° ∡ °27'37	
	10387 Nov 17 18:05	8°0		evening max el	10388 Nov 01 17:00	14° ∡ °23'34	25°42'13
evening max el	10387 Nov 20 21:12	3° る 11'45	26°50'34	retrograde	10388 Nov 15 14:30	21° ∡ °24′17	
retrograde	10387 Dec 04 19:35	10° る 20'44		evening set	10388 Nov 21 17:56	19° ∡ 56'40 −	
evening set	10387 Dec 11 14:51	8° පි 23'01		min. Earth dist.	10388 Nov 26 05:26		0.57824 AU
min. Earth dist.	10387 Dec 15 11:35		0.59886 AU	inferior conj	10388 Nov 29 05:41	15° ∡ 13'52	
inferior conj	10387 Dec 18 15:45	3° る 11′28		minimum elong	10388 Nov 29 13:09	15° ⋌ ¹00'47	5°00'14
minimum elong	10387 Dec 18 23:19	2° ප් 56'11	3°53'46	morning rise	10388 Dec 07 10:42	10° ⋌ ′54'07	
	10387 Dec 23 00:28	30°₹ ৴		direct	10388 Dec 09 16:53	10° ₹ 38'13	
morning rise	10387 Dec 26 10:27	28° х 29'14		asc. node	10388 Dec 17 09:07	13° × 756'05	10040114
direct	10387 Dec 28 13:37	28° 🗷 12'11		morning max el	10388 Dec 18 08:35		18°48'14
asc. node	10387 Dec 31 12:04	28° ₹ 46'04		. ,	10388 Dec 28 20:52	0°る	
mamina may al	10388 Jan 02 19:01	0°る 1° ス 57'40	10000122	morning set	10389 Jan 03 16:26	11° る 03'17	
morning max el morning set	10388 Jan 05 03:27 10388 Jan 20 19:18	1°る57'48 26°る47'54	18°08'22	superior conj	10389 Jan 12 06:19	27° る 41'39	0.28124
morning set		20° ∞ 4/34			10389 Jan 12 00:19 10389 Jan 12 09:26	27°る41'39 27°る56'20	0°58'24 0°58'25
	10388 Jan 22 12:17	0 ~		minimum elong	10389 Jan 13 11:44	27 3 30 20 0° ≈	0 38 23
superior conj	10388 Jan 30 11:32	14° ≈ 40′20	0°28'56	max. Earth dist.	10389 Jan 19 09:57	0 ∞ 10° ≈ 46'39	1.39477 AU
minimum elong	10388 Jan 30 13:42	14°≈50'01	0°28'58	desc. node	10389 Jan 20 03:49	10 ≈40 39 12°≈05'09	1.394// AU
desc. node	10388 Feb 03 06:57	21°≈23'48	0 28 38	evening rise	10389 Jan 23 08:46	12 ≈ 05 03 17° ≈ 36'43	
max. Earth dist.	10388 Feb 07 02:30	27°≈55'01	1.41629 AU	evening rise	10389 Jan 30 22:45	0° \	
max. Lattii dist.	10388 Feb 08 08:22	0° ∺	1.4102) AU		10389 Feb 21 04:55	0°Υ	
evening rise	10388 Feb 12 04:25	6° ∺ 17'10		evening max el	10389 Feb 27 10:06	6°Υ55'05	24°14'00
5 , ching 1150	10388 Feb 27 17:42	0° Υ		retrograde	10389 Mar 10 16:39	13° Υ 31'41	2. 1700
evening max el	10388 Mar 16 19:58	23° Y ′06'40	22°53'46	asc. node	10389 Mar 15 07:31	11° Υ 52'56	
retrograde	10388 Mar 26 23:55	29° Υ 07'13	22 33 70	evening set	10389 Mar 16 01:54	11° Y 16'33	
asc. node	10388 Mar 28 10:17	28° Y '57'16		min. Earth dist.	10389 Mar 20 17:42	5° Υ '55'27	0.68299 AU
evening set	10388 Mar 31 21:07	27° Υ '05'31		inferior conj	10389 Mar 21 13:51	4° Υ 47'30	1°53'31
inferior conj	10388 Apr 06 05:43	20° Υ '40'53	2°29'24	minimum elong	10389 Mar 21 11:44	4° Υ 54'39	1°52'50
minimum elong	10388 Apr 06 03:34	20° Υ '48'22	2°28'43	***************************************	10389 Mar 25 12:02	30° ₽.)	
min. Earth dist.	10388 Apr 05 21:34	21° Υ '09'11	0.68622 AU	morning rise	10389 Mar 26 21:39	28°) 46'28	
morning rise	10388 Apr 11 09:54	14° Y '32'46		direct	10389 Mar 30 20:09	27°) 18'11	
<i>3</i>	r			**	20 20.07		

	10389 Apr 05 17:53	0° Υ		morning max el	10390 Mar 21 18:10	15°) 41′08	19°09'30
morning max el	10389 Apr 07 12:51	1° Y ′38′05	20°10'03		10390 Apr 01 18:44	0° Y	
desc. node	10389 Apr 18 04:31	14° Y 59'46		greatest brilliancy	10390 Apr 03 20:37	3° Y 05'38	-0.7m
	10389 Apr 28 09:27	0° ႘		desc. node	10390 Apr 05 01:19	4° Y 53'44	
morning set	10389 May 05 06:55	10° 8 31'06		morning set	10390 Apr 14 09:02	19° Y 11'40	
max. Earth dist.	10389 May 15 07:23	26° 8 14'19	1.44038 AU		10390 Apr 21 08:14	0° 8	
	10389 May 17 15:35	Π °0		max. Earth dist.	10390 Apr 27 22:52	10° 8 20'04	1.45198 AU
superior conj	10389 May 21 02:30	5° ∏ 37'25	-2°10'16	superior conj	10390 Apr 30 21:38	14° 8 59'04	-2°10'47
minimum elong	10389 May 21 05:55	5° Ⅱ 51'24		minimum elong	10390 Apr 30 18:05	14° 8 45'02	
evening rise	10389 Jun 03 00:19	27° Ⅱ 25'14		8	10390 May 10 06:32	0°II	
Č	10389 Jun 04 12:09	0° ©		evening rise	10390 May 15 12:25	8° Ⅱ 34'17	
asc. node	10389 Jun 11 05:50	11° © 27'44		Č	10390 May 28 21:05	0∘ ©	
evening max el	10389 Jun 20 10:59	24°516'50	18°05'58	asc. node	10390 May 29 02:53	0° © 21'12	
retrograde	10389 Jun 26 20:53	27° © 37'12		evening max el	10390 Jun 04 00:16	7° 5 46'03	18°22'49
evening set	10389 Jun 29 14:34	26° © 59'24		retrograde	10390 Jun 10 10:12	11° © 12'39	
inferior conj	10389 Jul 05 21:26	21° 5 48'08	2°26'22	evening set	10390 Jun 13 11:38	10° © 20'55	
minimum elong	10389 Jul 06 00:09	21° 5 40'58	2°25'13	inferior conj	10390 Jun 19 07:31	4° 9 52'27	3°00'07
min. Earth dist.	10389 Jul 08 18:31	18° 5 47'44	0.62402 AU	minimum elong	10390 Jun 19 09:24	4° 9 346'55	2°59'19
morning rise	10389 Jul 12 07:47	15° 5 640'06		min. Earth dist.	10390 Jun 21 14:44	2° 5 11'34	0.64456 AU
desc. node	10389 Jul 15 04:10	14° © 01'45			10390 Jun 23 16:09	30°RⅡ	
direct	10389 Jul 19 00:50	13° © 13'51		morning rise	10390 Jun 25 06:01	28° Ⅲ 34'44	
morning max el	10389 Aug 02 03:24	21° © 16′00	27°55'25	direct	10390 Jul 01 21:13	25° Ⅱ 53'53	
	10389 Aug 09 17:22	0 \circ Ω		desc. node	10390 Jul 02 01:16	25° Ⅱ 53'58	
	10389 Aug 28 22:07	0° ™			10390 Jul 11 06:02	0 \circ 50	
morning set	10389 Sep 05 04:05	14° m 00'03		morning max el	10390 Jul 15 13:25	3° © 53'48	27°26'55
asc. node	10389 Sep 07 05:51	18° Mp 16'25			10390 Aug 04 05:14	0 ° Ω	
max. Earth dist.	10389 Sep 10 13:34	25° Tp 19'52	1.32063 AU	morning set	10390 Aug 19 19:11	27° Ω 34'41	
					10390 Aug 21 00:34	0° m)	
superior conj	10389 Sep 12 17:51	0° ჲ 04'08	0°52'26	max. Earth dist.	10390 Aug 24 11:31	7° Mp 01'56	1.33085 AU
minimum elong	10389 Sep 12 15:47	29° m 52'49	0°52'01	asc. node	10390 Aug 25 02:39	8° Mp 20'41	
	10389 Sep 12 17:06	0° <u>Ω</u>			10200 4 27 22-41	1 40 m , 10157	0927149
evening rise	10389 Sep 19 13:20 10389 Sep 26 23:17	14° £ 57'38 0° I L		superior conj minimum elong	10390 Aug 27 22:41 10390 Aug 27 21:22	14° Mp 19'57 14° Mp 12'54	0°27'48 0°27'21
desc. node	10389 Sep 20 23:17 10389 Oct 11 02:00	21°M30'36		evening rise	10390 Aug 27 21:22 10390 Sep 04 00:35	29° m 32'49	0 2/21
evening max el	10389 Oct 11 02:00 10389 Oct 14 05:16	24°M49'00	24°09'42	evening rise	10390 Sep 04 00:33	0° ⊽	
evening max er	10389 Oct 21 06:27	2° √	24 0742		10390 Sep 04 03:42 10390 Sep 21 07:19	0° m .	
retrograde	10389 Oct 27 21:20	1° х 39'38		evening max el	10390 Sep 25 16:27	4°M55'52	22°29'12
evening set	10389 Nov 01 20:30	0° ∡ 745'27		desc. node	10390 Sep 27 23:15	6°M58'46	22 27 12
	10389 Nov 03 17:05	30°RM		retrograde	10390 Oct 08 16:22	11° M 24'19	
min. Earth dist.	10389 Nov 07 15:59		0.56061 AU	evening set	10390 Oct 12 03:38	10° ™ 57'49	
inferior conj	10389 Nov 09 23:02	26° ™ 27'04		min. Earth dist.	10390 Oct 19 23:33	7°M28'35	0.54911 AU
minimum elong	10389 Nov 10 01:50	26°M22'46	5°41'00	inferior conj	10390 Oct 20 22:45	6°M55'44	-5°33'35
morning rise	10389 Nov 18 09:12	22°M28'29		minimum elong	10390 Oct 20 17:25	7° M 03'17	5°32'44
direct	10389 Nov 21 00:39	22°M10'20		morning rise	10390 Oct 29 08:53	3°M08'16	
morning max el	10389 Dec 01 02:13	26°M56'50	19°50'38	direct	10390 Nov 01 15:04	2°M44'15	
	10389 Dec 03 22:04	0° ∡ ¹		morning max el	10390 Nov 13 06:23	8° ™ 13'37	21°15'15
asc. node	10389 Dec 04 06:06	0° ≯ 24'32		asc. node	10390 Nov 21 03:03	17°M55'35	
morning set	10389 Dec 18 20:46	25° ∡ ³36′53			10390 Nov 28 02:19	0° ∡	
	10389 Dec 21 00:30	0°ප		morning set	10390 Dec 03 05:34	10° ∡ ′20′36	
superior conj	10389 Dec 26 16:01	11° る 24'35	1°19'36	superior conj	10390 Dec 10 12:23	25° ∡ ³36'42	1°33'00
minimum elong	10389 Dec 26 18:46	11° る 38'16	1°19'48	minimum elong	10390 Dec 10 14:08		1°33'22
max. Earth dist.	10390 Jan 01 16:18	23° る 00'44	1.37278 AU	S	10390 Dec 12 15:40	ರ∘ರ	
evening rise	10390 Jan 05 09:48	29° る 49'53		max. Earth dist.	10390 Dec 15 02:12	4° る 53'54	1.35276 AU
C	10390 Jan 05 12:04	0° ≈		evening rise	10390 Dec 19 04:23	12° る 48'15	
desc. node	10390 Jan 07 00:43	2° ≈ 42'13		desc. node	10390 Dec 24 21:39	23° る 10'19	
	10390 Jan 24 05:15	0°) €			10390 Dec 28 22:14	0° ≈	
evening max el	10390 Feb 09 23:21	20°) 44'42	25°29'02		10391 Jan 19 06:03	0° ∀	
retrograde	10390 Feb 22 05:03	27°) (48′12		evening max el	10391 Jan 23 12:40	4°) €30′08	26°31'43
evening set	10390 Feb 28 02:30	25° ¥ 22′09		retrograde	10391 Feb 05 12:19	11°) 49′00	
asc. node	10390 Mar 02 04:43	23° ¥ 19'17		evening set	10391 Feb 11 21:08	9° ∺ 16'13	
min. Earth dist.	10390 Mar 04 11:06	20°) ₹36′02	0.67560 AU	min. Earth dist.	10391 Feb 15 23:37	5° ¥ 04'27	0.66428 AU
inferior conj	10390 Mar 05 19:06	18°) €53'14	1°08'30	asc. node	10391 Feb 17 01:55	3°) (45'47	
minimum elong	10390 Mar 05 17:33	18°) € 58'15	1°08'02	inferior conj	10391 Feb 17 19:26	2°) 52′57	0°14'20
morning rise	10390 Mar 11 09:02	13°) €00'43		minimum elong	10391 Feb 17 19:03	2°) 54'08	0°14'27
direct	10390 Mar 14 19:30	11° ¥ 52'58		transit middle	10391 Feb 17 19:03	2°) 54′08	0°14'27

transit begin	10391 Feb 17 17:47	2°) 57'57		min. Earth dist.	10392 Jan 30 05:09	19° ≈ 13'57	0.64940 AU
transit end	10391 Feb 17 17:47	2° € 50'18		inferior conj	10392 Feb 01 12:33	16° ≈ 41'41	
transit ona	10391 Feb 20 07:51	30°R≈		minimum elong	10392 Feb 01 14:01	16°≈37'41	0°47'35
morning rise	10391 Feb 23 17:57	27°≈10'50		asc. node	10392 Feb 03 23:06	14° ≈ 07'34	,
direct	10391 Feb 26 17:46	26° ≈ 20'42		morning rise	10392 Feb 07 21:53	11° ≈ 12'15	
	10391 Mar 05 10:14	0°) €		direct	10392 Feb 10 12:46	10° ≈ 36′07	
morning max el	10391 Mar 05 06:07	29° ≈ 49'48	18°25'00	morning max el	10392 Feb 16 22:19	13° ≈ 57'19	17°57'20
desc. node	10391 Mar 22 22:04	25°) €06'32		C	10392 Feb 28 08:41	0°) €	
morning set	10391 Mar 25 08:51	28°) 59′58		morning set	10392 Mar 05 13:58	10°) 15′20	
Č	10391 Mar 25 23:58	$0^{\circ}\Upsilon$		desc. node	10392 Mar 08 18:51	15°) 32′54	
					10392 Mar 17 16:25	0° Y	
superior conj	10391 Apr 10 04:08	23° Y 53'49	-1°51'01				
minimum elong	10391 Apr 09 18:59	23° Y 18'06	1°50'26	superior conj	10392 Mar 19 16:06	3° Y 10'07	-1°15'01
max. Earth dist.	10391 Apr 10 17:33	24° Y 46'15	1.45647 AU	minimum elong	10392 Mar 19 07:59	2° Y 37'47	1°14'00
	10391 Apr 14 01:50	9° 8		max. Earth dist.	10392 Mar 23 13:09	9° Ƴ 17'46	1.45354 AU
evening rise	10391 Apr 26 00:33	18° 8 44'30		evening rise	10392 Apr 04 17:50	28° Y 13'50	
	10391 May 03 04:10	Π $^{\circ}0$			10392 Apr 05 21:28	0° 8	
greatest brilliancy	10391 May 05 19:12	4° Ⅱ 05'31	-0.8m	greatest brilliancy	10392 Apr 19 00:31	19° 8 51'13	-0.6m
asc. node	10391 May 15 23:59	18° Ⅱ 40′12			10392 Apr 26 07:19	Π $^{\circ}0$	
evening max el	10391 May 18 10:43	21° Ⅱ 23'43	18°57'22	evening max el	10392 Apr 30 16:31	5° Ⅱ 05'20	19°48'12
retrograde	10391 May 25 05:19	25° Ⅱ 09'10		asc. node	10392 May 01 21:08	6° Ⅱ 13'51	
evening set	10391 May 28 14:51	24° ∏ 02′23		retrograde	10392 May 08 03:19	9° Ⅱ 20'49	
inferior conj	10391 Jun 03 03:24	18° Ⅱ 18′26		evening set	10392 May 11 21:40	7° Ⅱ 58′20	
minimum elong	10391 Jun 03 04:07	18° Ⅱ 16′09	3°15'24	inferior conj	10392 May 17 06:01	2° Ⅱ 00′17	
min. Earth dist.	10391 Jun 04 19:37	16° Ⅱ 11'11	0.66160 AU	minimum elong	10392 May 17 05:35	2° Ⅱ 01'43	3°16'54
morning rise	10391 Jun 08 16:46	11° Ⅱ 57'40		min. Earth dist.	10392 May 18 07:30	0° Ⅱ 34'57	0.67438 AU
direct	10391 Jun 15 00:58	9° Ⅱ 13'26			10392 May 18 18:05	30° ₹ 8	
desc. node	10391 Jun 18 22:19	10° Ⅱ 05'13		morning rise	10392 May 22 13:10	25° 8 40'39	
morning max el	10391 Jun 28 00:11	16° ∏ 56'59	26°29'00	direct	10392 May 28 10:44	23° 8 03'27	
	10391 Jul 08 20:37	0°©		desc. node	10392 Jun 04 19:20	26° 8 07'24	
_	10391 Jul 28 02:57	0° Ω			10392 Jun 09 04:21	0°II	
morning set	10391 Aug 02 22:39	10° Ω 34'26	1.24602.477	morning max el	10392 Jun 09 10:01	0° Ⅱ 14'17	25°10'49
max. Earth dist.	10391 Aug 06 23:06	18° Ω 18'41	1.34603 AU		10392 Jul 01 18:21	0.20 0.20	
	10201 4 11 20 56	200 0 1 2127	0001104	morning set	10392 Jul 15 10:13	22°547'35	1 26567 ATT
superior conj	10391 Aug 11 20:56	28° Ω 13'27		max. Earth dist.	10392 Jul 19 00:45	29° © 22'28	1.36567 AU
minimum elong	10391 Aug 11 21:01	28° Ω 13'51 27° Ω 43'40	0°01'20		10392 Jul 19 08:49	0 $^{\circ}\Omega$	
behind sun begin behind sun end	10391 Aug 11 15:10 10391 Aug 12 02:52	27 87 43 40 28° Ω 44'04		superior conj	10392 Jul 25 09:41	11° Ω 36'29	0922102
asc. node	10391 Aug 12 02.32 10391 Aug 11 23:30	28° Ω 26'40		minimum elong	10392 Jul 25 09.41 10392 Jul 25 11:47	11 δι 36 29	
asc. node	10391 Aug 11 23:30 10391 Aug 12 17:32	0° Mp		asc. node	10392 Jul 28 20:22	11° Ω 29'55	0 33 02
evening rise	10391 Aug 12 17:32 10391 Aug 19 09:51	13° m 59'35		evening rise	10392 Jul 28 20:22 10392 Aug 02 14:55	28° Ω 11'09	
evening rise	10391 Aug 27 13:41	0∘ ⊽		evening rise	10392 Aug 03 12:30	0° m)	
evening max el	10391 Sep 07 12:07	0 — 15° ≏ 22'08	20°57'01	evening max el	10392 Aug 19 21:10	26° Mp 29'51	19°42'40
desc. node	10391 Sep	20° £ 22'24	20 07 01	evening man er	10392 Aug 24 10:30	0∘ ⊽	19 12 10
retrograde	10391 Sep 19 04:13	21° Ω 09'25		retrograde	10392 Aug 29 20:29	1° Ω 26'42	
evening set	10391 Sep 21 11:23	20° Ω 56'52		evening set	10392 Aug 31 17:09	1° Ω 17'08	
inferior conj	10391 Sep 30 14:57	17° ≏ 01'22	-4°28'26	desc. node	10392 Aug 31 17:47	1° Ω 16'52	
minimum elong	10391 Sep 30 05:06	17° Ω 15'21	4°25'42		10392 Sep 04 16:17	30°R, Mp	
min. Earth dist.	10391 Oct 01 07:40	16° ≏ 37'38	0.54631 AU	inferior conj	10392 Sep 09 13:51	27° Mp 14'26	-2°42'43
morning rise	10391 Oct 08 22:59	13° ჲ 06′22		minimum elong	10392 Sep 09 06:35	27° m 25'44	2°40'07
direct	10391 Oct 12 23:15	12° ≏ 31'47		min. Earth dist.	10392 Sep 11 18:08	25° m 53'18	0.55306 AU
morning max el	10391 Oct 25 22:56	18° ≏ 45'56	22°57'01	morning rise	10392 Sep 17 18:05	22° m 52'44	
	10391 Nov 04 03:02	0° M		direct	10392 Sep 22 13:53	22°Mp01'16	
asc. node	10391 Nov 07 23:58	6°M15'00		morning max el	10392 Oct 06 10:14	28° m 54'19	24°44'01
morning set	10391 Nov 17 16:47	25°M08'50			10392 Oct 07 13:06	0∘ ⊽	
	10391 Nov 19 23:15	0° ∡ ¹		asc. node	10392 Oct 24 20:52	25° ≏ 10′05	
					10392 Oct 27 09:07	0° M	
superior conj	10391 Nov 24 16:11	10° ≯ 08'38	1°39'17	morning set	10392 Nov 01 04:35	9°M55'36	
minimum elong	10391 Nov 24 16:43	10° х 11′33	1°39'43				
max. Earth dist.	10391 Nov 27 19:46	16° ≯ 48'42	1.33641 AU	superior conj	10392 Nov 08 00:42	24°M51'32	1°39'07
evening rise	10391 Dec 02 12:52	26° ₹ 22'56		minimum elong	10392 Nov 08 00:06	24°M48'13	1°39'29
_	10391 Dec 04 09:31	0° ろ		max. Earth dist.	10392 Nov 09 21:21	28°M55'08	1.32445 AU
desc. node	10391 Dec 11 18:40	13° る 24'43			10392 Nov 10 09:20	0° ∡ 7	
	10391 Dec 22 06:55	0°≈	0701.40.5	evening rise	10392 Nov 15 07:44	10° ₹ 23'55	
evening max el	10392 Jan 06 01:57	18°≈03'21	27~14'36		10392 Nov 25 16:59	0°る	
retrograde	10392 Jan 19 13:30	25°≈26'23		desc. node	10392 Nov 27 15:44	3°₹18'18	
evening set	10392 Jan 26 07:43	22° ≈ 52'47			10392 Dec 17 08:08	0° ≈	

	10202 D 10 12.22	100 01 1140	27920152		10202 D 14 17.59	200=254142	
evening max el	10392 Dec 18 13:33 10393 Jan 01 07:42	1°≈11'49 8°≈31'15	27°30'52	retrograde	10393 Dec 14 17:58 10393 Dec 21 17:40	20°る54'43 18°る43'17	
retrograde	10393 Jan 01 07:42 10393 Jan 08 07:41	6°≈04'20		evening set min. Earth dist.	10393 Dec 21 17.40 10393 Dec 25 11:20	18 3 4317 15° る 57'31	0.61109 AU
evening set min. Earth dist.	10393 Jan 12 01:34	0 ≈04 20 2°≈55'23	0.63140 AU	inferior conj	10393 Dec 23 11.20 10393 Dec 28 13:33	13°る16'05	
inferior conj	10393 Jan 12 01:34 10393 Jan 14 19:41	2 ≈33 23 0°≈12'13		,	10393 Dec 28 13:33 10393 Dec 28 20:01	13°る10'03	
,	10393 Jan 14 19.41 10393 Jan 14 23:34	0°≈1213 0°≈02'37		minimum elong	10393 Dec 28 20.01 10394 Jan 05 00:55	13 3 01 39 8° る 21'43	3 11 10
minimum elong		0 ≈0237 30°Rる	1 3/01	morning rise direct		8°る2143	
aga mada	10393 Jan 15 00:38 10393 Jan 20 20:17	30°KO 25° る 21'32		asc. node	10394 Jan 07 04:56 10394 Jan 07 17:27	8°る02'21	
asc. node	10393 Jan 20 20.17 10393 Jan 21 17:38	23 3 21 32 24° る 58'37		morning max el		8 303 30 11° る 36'45	17°55'05
morning rise		24°る38'37' 24°る32'38		morning max ei	10394 Jan 14 07:34		1/-33/03
direct morning max el	10393 Jan 24 01:44 10393 Jan 30 15:53	24° る 32'38 27° る 55'48	17°47'05	maming got	10394 Jan 26 13:34 10394 Jan 29 22:43	0° ≈ 6° ≈ 08'12	
morning max er	10393 Jan 30 13.33 10393 Feb 01 13:19		1/4/03	morning set	10394 Jan 29 22.43	0 ≈0812	
		0°≈ 22°≈ • 44!5°			10204 E-L 00 10.02	24954144	0°08'22
morning set	10393 Feb 15 20:47	22°≈44'58		superior conj	10394 Feb 09 10:03	24°≈54'44	
1 1	10393 Feb 20 01:17	0° ₩		minimum elong	10394 Feb 09 10:48	24°≈57'59	0°08'34
desc. node	10393 Feb 23 15:38	6° ∺ 08′20		behind sun begin	10394 Feb 09 03:47	24°≈27'31	
	10202 F 1 20 00 21	120 1/20141	0022121	behind sun end	10394 Feb 09 17:48	25°≈28'24	
superior conj	10393 Feb 28 00:31	13° ¥ 26'41		desc. node	10394 Feb 10 12:25	26°≈48'50	
minimum elong	10393 Feb 27 21:10	13° ¥ 12'48	0°31'40	P. 4. P.	10394 Feb 12 09:05	0° ∀	
max. Earth dist.	10393 Mar 06 07:24	23°) ₹39′29	1.44348 AU	max. Earth dist.	10394 Feb 16 21:45	7° ∺ 34'16	1.42744 AU
	10393 Mar 10 07:31	0° Υ		evening rise	10394 Feb 23 02:09	17°) € 31'49	
evening rise	10393 Mar 15 05:22	7° Ƴ 37'49			10394 Mar 03 04:31	0° Υ	
	10393 Mar 30 04:22	0° 8			10394 Mar 25 02:47	0° 8	
evening max el	10393 Apr 13 16:45	18° 8 48'30	20°52'57	evening max el	10394 Mar 27 11:38	2° 8 32'06	22°07'58
asc. node	10393 Apr 18 18:20	22° 8 48'42		retrograde	10394 Apr 05 23:33	8° 8 09'05	
retrograde	10393 Apr 22 02:00	23° 8 42'37		asc. node	10394 Apr 05 15:35	8° 8 08'32	
evening set	10393 Apr 26 06:03	22° 8 04'19		evening set	10394 Apr 10 14:16	6° 8 15'26	
inferior conj	10393 May 01 12:49	15° 8 53'53	3°06'49	inferior conj	10394 Apr 15 21:39	29° Ƴ 54'56	
minimum elong	10393 May 01 11:28	15° 8 58'35	3°06'19	minimum elong	10394 Apr 15 19:40	0° 8 01'49	2°45'14
min. Earth dist.	10393 May 02 00:29	15° 8 13'34	0.68253 AU		10394 Apr 15 20:11	30° ₹Ƴ	
morning rise	10393 May 06 16:40	9° 8 37'41		min. Earth dist.	10394 Apr 15 20:26	29° Ƴ 59'10	0.68610 AU
direct	10393 May 12 01:27	7° 8 15'31		morning rise	10394 Apr 21 00:56	23° Ƴ 43'35	
desc. node	10393 May 22 16:18	13° 8 32'16		direct	10394 Apr 25 20:07	21° Y 41'15	
morning max el	10393 May 22 19:34	13° 8 40'29	23°42'31	morning max el	10394 May 05 07:19	27° Ƴ 14'34	22°13'29
	10393 Jun 05 00:38	Π \circ 0			10394 May 07 21:07	9° 8	
	10393 Jun 24 15:24	0 \circ \odot		desc. node	10394 May 09 13:11	1° 8 56'42	
morning set	10393 Jun 27 00:57	4°901'57			10394 May 29 14:44	$\Pi^{\circ}0$	
max. Earth dist.	10393 Jun 30 21:57	10°9544'06	1.38810 AU	morning set	10394 Jun 07 14:03	14° Ⅱ 05'30	
				max. Earth dist.	10394 Jun 12 20:59	22° Ⅱ 48'32	1.41073 AU
superior conj	10393 Jul 08 09:20	24°\$20'36	-1°06'14		10394 Jun 17 02:07	0°ම	
minimum elong	10393 Jul 08 13:46	24° © 41'25	1°06'00				
	10393 Jul 11 08:46	$0^{\circ}\Omega$		superior conj	10394 Jun 20 15:24	6°9514'40	-1°37'30
asc. node	10393 Jul 15 17:17	8° Ω 27'05		minimum elong	10394 Jun 20 21:37	6°€42′20	1°37'15
evening rise	10393 Jul 17 13:05	12° Ω 00'51		evening rise	10394 Jul 01 00:47	25° © 18'52	
	10393 Jul 27 09:23	0° m)		asc. node	10394 Jul 02 14:14	28° © 13'21	
evening max el	10393 Aug 02 18:55	8° Mp 23'26	18°49'23		10394 Jul 03 13:14	$0^{\circ}\Omega$	
retrograde	10393 Aug 11 04:52	12° m 35'20		evening max el	10394 Jul 17 01:49	20° Ω 55'54	18°17'04
evening set	10393 Aug 13 03:21	12° m 22'49		retrograde	10394 Jul 24 08:24	24° Ω 35'58	
desc. node	10393 Aug 18 15:02	9° m 53'09		evening set	10394 Jul 26 13:36	24° Ω 16′15	
inferior conj	10393 Aug 21 06:54	8° Mp 02'38	-0°49'31	inferior conj	10394 Aug 02 21:46	19° Ω 35'45	0°46'36
minimum elong	10393 Aug 21 04:50	8° Mp 06'22	0°48'55	minimum elong	10394 Aug 02 23:18	19° £ 32′29	0°45'41
min. Earth dist.	10393 Aug 24 08:58	5° m 49'44	0.56806 AU	desc. node	10394 Aug 05 12:16	17° Ω 23'24	
morning rise	10393 Aug 29 03:01	3° Mp 03'40		min. Earth dist.	10394 Aug 06 06:25	16° Ω 46′23	0.58849 AU
direct	10393 Sep 03 17:39	1° Mp 47'52		morning rise	10394 Aug 10 05:36	14° Ω 01'53	
morning max el	10393 Sep 18 00:07	9° m √11'32	26°18'54	direct	10394 Aug 16 11:37	12° Ω 16′27	
	10393 Oct 03 17:39	0∘ ट		morning max el	10394 Aug 30 20:43	20° Ω 02'42	27°25'47
asc. node	10393 Oct 11 17:45	14° ≏ 31'44			10394 Sep 08 09:33	0° m)	
morning set	10393 Oct 16 15:18	24° £ 36′23			10394 Sep 26 12:13	0∘ ত	
-	10393 Oct 19 03:08	0° M .		asc. node	10394 Sep 28 14:35	4° £ 12'29	
				morning set	10394 Sep 30 23:13	9° ഫ 06'23	
superior conj	10393 Oct 23 11:49	9°MJ39'03	1°33'01	-	•		
minimum elong	10393 Oct 23 10:17	9°M30'36	1°33'11	superior conj	10394 Oct 07 23:36	24° ≏ 25'24	1°21'23
max. Earth dist.	10393 Oct 24 04:40	11°ML12'34	1.31714 AU	minimum elong	10394 Oct 07 21:30	24° £ 13'45	1°21'17
evening rise	10393 Oct 30 10:05	24°M43'32	-	max. Earth dist.	10394 Oct 07 14:10	23° £ 32'56	1.31458 AU
J	10393 Nov 01 23:25	0° ∡ 7			10394 Oct 10 11:47	0° M	-
desc. node	10393 Nov 14 12:51	22° ∡ ¹42'35		evening rise	10394 Oct 14 17:31	9°ML15'17	
	10393 Nov 19 09:17	0°ਰ		5	10394 Oct 25 07:50	0° ∡ 7	
evening max el	10393 Nov 30 20:50	13° る 41'56	27°15'01	desc. node	10394 Nov 01 10:01	11° ∡ ¹26'06	
<i>3</i>			· -				

evening max el	10394 Nov 12 21:08	25° ∡ ¹23'17	26°25'05	desc. node	10395 Oct 19 07:14	29°M12'08	
evening max er	10394 Nov 18 19:20	23 ス 23 17	20 23 03	desc. node	10395 Oct 19 07:14 10395 Oct 19 22:18	0° x ¹	
retrograde	10394 Nov 26 19:22	2°る29'21		evening max el	10395 Oct 19 22:18 10395 Oct 25 13:17		25°05'01
evening set	10394 Nov 20 19:22 10394 Dec 03 09:32	0°る43'12		retrograde	10395 Nov 08 09:51	13°×711'25	23 03 01
e venning see	10394 Dec 04 16:10	30°R. ✓		evening set	10395 Nov 14 02:27	11° × 58'10	
min. Earth dist.	10394 Dec 07 10:35	28° ₹ '08'08	0.58989 AU	min. Earth dist.	10395 Nov 19 01:10		0.57014 AU
inferior conj	10394 Dec 10 14:39	25° х 43′59		inferior conj	10395 Nov 21 19:54	7° x ⁷ 26′10	
minimum elong	10394 Dec 10 22:36	25° ₹ 28'52		minimum elong	10395 Nov 22 02:01	7° х 16′02	
morning rise	10394 Dec 18 14:18	21° × 11'38		morning rise	10395 Nov 30 03:51	3° х 15′59	
direct	10394 Dec 20 18:01	20° х 55'32		direct	10395 Dec 02 12:55	2° х 59'42	
asc. node	10394 Dec 25 14:32	22° ₹ 22'19		morning max el	10395 Dec 11 18:32	7° х 25′26	19°11'56
morning max el	10394 Dec 28 17:47	24° ∡ 50'43	18°22'44	asc. node	10395 Dec 12 11:33	8° ∡ 107'50	
S	10395 Jan 02 00:47	ರ°ರ			10395 Dec 26 07:21	ರ°ರ	
morning set	10395 Jan 13 14:09	20° පි 08'41		morning set	10395 Dec 28 14:43	4° る 32'51	
C	10395 Jan 18 18:14	0° ≈		C			
				superior conj	10396 Jan 05 19:51	20° る 47'27	1°08'22
superior conj	10395 Jan 22 18:09	7° ≈ 26'44	0°42'26	minimum elong	10396 Jan 05 22:56	21° る 02'18	1°08'27
minimum elong	10395 Jan 22 20:55	7° ≈ 39'26	0°42'26	_	10396 Jan 10 16:50	0° ≈	
desc. node	10395 Jan 28 09:14	17° ≈ 31'13		max. Earth dist.	10396 Jan 12 12:57	3° ≈ 21'15	1.38531 AU
max. Earth dist.	10395 Jan 30 06:58	20° ≈ 48'55	1.40728 AU	desc. node	10396 Jan 15 06:06	8° ≈ 11'16	
evening rise	10395 Feb 03 18:05	28° ≈ 18'47		evening rise	10396 Jan 16 07:34	10° ≈ 02'17	
	10395 Feb 04 18:47	0° ∀			10396 Jan 28 14:21	0° ∀	
	10395 Feb 24 18:10	0° Υ		evening max el	10396 Feb 20 16:22	0° Y 07'16	24°47'00
evening max el	10395 Mar 10 02:48	16° Ƴ 18′09	23°28'03		10396 Feb 20 13:25	0° Υ	
retrograde	10395 Mar 20 18:31	22° Y 35'45		retrograde	10396 Mar 03 09:37	6° Y 57'05	
asc. node	10395 Mar 23 12:48	21° Y 59'16		evening set	10396 Mar 08 23:55	4° Y 37'08	
evening set	10395 Mar 25 20:44	20° Ƴ 27'59		asc. node	10396 Mar 09 10:02	4° Ƴ 14'50	
min. Earth dist.	10395 Mar 30 17:13	14° Y 46'34	0.68531 AU		10396 Mar 13 03:36	30° ₹ ₩	
inferior conj	10395 Mar 31 06:34	14° Y ′00'41	2°15'20	min. Earth dist.	10396 Mar 13 12:34	29°) 30′40	0.68031 AU
minimum elong	10395 Mar 31 04:22	14° Y 08'14	2°14'37	inferior conj	10396 Mar 14 13:42	28° ∺ 07'21	1°35'33
morning rise	10395 Apr 05 11:58	7° Y ′55'21		minimum elong	10396 Mar 14 11:45	28° ¥ 13'49	1°34'55
direct	10395 Apr 09 17:44	6° Ƴ 14'43		morning rise	10396 Mar 19 23:47	22° ∺ 09'27	
morning max el	10395 Apr 18 00:28	10° Y 59'10	20°51'35	direct	10396 Mar 23 16:59	20°) 50′08	
desc. node	10395 Apr 26 10:01	21° Y ′04'38		morning max el	10396 Mar 31 01:08	24°) ₹55′19	19°42'18
	10395 May 02 18:56	9° 8			10396 Apr 04 12:05	0° Y	
morning set	10395 May 18 01:37	23° 8 00'58		desc. node	10396 Apr 12 06:48	10° Ƴ 44'08	
	10395 May 22 11:59	Π °0		greatest brilliancy	10396 Apr 12 19:27	11° Y ′30'20	-0.6m
max. Earth dist.	10395 May 26 01:46	5° Ⅱ 44'33	1.43085 AU		10396 Apr 25 01:48	9° 8	
				morning set	10396 Apr 26 00:20	1° 8 26'40	
superior conj	10395 Jun 01 23:26	17° Ⅱ 09'22		max. Earth dist.	10396 May 07 13:36	19° 8 28'12	1.44609 AU
minimum elong	10395 Jun 02 05:05	17° Ⅲ 33'12	2°01'58				
	10395 Jun 09 10:24	0 \circ		superior conj	10396 May 12 07:11	27° 8 01'56	
evening rise	10395 Jun 13 21:40	7° 9 54'28		minimum elong	10396 May 12 07:58	27° 8 05'04	2°13'17
asc. node	10395 Jun 19 11:13	17° © 43'58			10396 May 14 03:14	Π °0	
	10395 Jun 27 05:07	0 \circ Ω		evening rise	10396 May 25 22:52	19° Ⅱ 36'49	
evening max el	10395 Jun 30 13:58	3° Ω 57'42	18°04'37		10396 Jun 01 02:42	0 \circ	
retrograde	10395 Jul 07 04:24	7° Ω 20'58		asc. node	10396 Jun 05 08:15	6° © 53'09	
evening set	10395 Jul 09 17:29	6° Ω 50'35		evening max el	10396 Jun 13 03:47	17° © 19'41	18°11'02
inferior conj	10395 Jul 16 08:32	1° Ω 50′21		retrograde	10396 Jun 19 12:30	20° © 40'48	
minimum elong	10395 Jul 16 11:19	1° Ω 43'33	1°55'49	evening set	10396 Jun 22 09:31	19°957'14	
	10395 Jul 18 05:30	30°Rூ		inferior conj	10396 Jun 28 11:15	14°938'45	2°43'06
min. Earth dist.	10395 Jul 19 12:07	28°5547'04	0.61114 AU	minimum elong	10396 Jun 28 13:42	14°932'00	2°42'06
morning rise	10395 Jul 23 02:33	25°951'43		min. Earth dist.	10396 Jul 01 02:51	11° © 44'23	0.63309 AU
desc. node	10395 Jul 23 09:28	25°5540'24		morning rise	10396 Jul 04 16:17	8°925'51	
direct	10395 Jul 29 17:44	23° © 37'59		desc. node	10396 Jul 09 06:36	6°506'37	
	10395 Aug 11 07:03	0°Ω	07055120	direct	10396 Jul 11 09:29	5°951'46	27047122
morning max el	10395 Aug 12 23:59	1° Ω 37'36	21-33-38	morning max el	10396 Jul 25 08:06	13°954'27	27°47'23
	10395 Sep 02 16:54	0°M)			10396 Aug 07 07:35	0° N	
morning set	10395 Sep 15 02:25	23° Mp 19'46		morning ast	10396 Aug 25 06:38	0°M) 7°M∩10'51	
asc. node	10395 Sep 15 11:22	24° Mp 06'06		morning set	10396 Aug 28 22:43	7° Mp 10'51	
may Earth 1:-4	10395 Sep 18 06:22	0° Ω 5° Ω 45'36	1 21604 ATT	asc. node	10396 Sep 01 08:09	14° Mp 08'00	1 22/22 417
max. Earth dist.	10395 Sep 20 22:03	5° £ 45'36	1.31694 AU	max. Earth dist.	10396 Sep 03 00:38	17°Mp41'17	1.32433 AU
superior conj	10395 Sep 22 10:12	9° ჲ 04'33	1°04'28	superior conj	10396 Sep 05 17:46	23°m/31'10	0°42'34
minimum elong	10395 Sep 22 07:58	8° ≏ 52'15	1°04'09	minimum elong	10396 Sep 05 15:56	23° m/21'15	0°42'07
evening rise	10395 Sep 29 03:55	23° ≏ 52'46			10396 Sep 08 17:10	0∘ ⊽	
	10395 Oct 02 01:33	0° M		evening rise	10396 Sep 12 15:25	8° ≏ 30'54	

	10396 Sep 23 16:44	0° M		behind sun end	10397 Aug 20 20:32	7° Mp 40'24	
desc. node	10396 Oct 05 04:28	15°ML38'57		evening rise	10397 Aug 28 02:03	23° m 03'10	
evening max el	10396 Oct 06 00:17	16°ML28'10	23°27'00	•	10397 Aug 31 10:34	0∘ ⊽	
retrograde	10396 Oct 19 11:15	23°ML10'46		evening max el	10397 Sep 17 14:01	26° ≏ 38'47	21°48'12
evening set	10396 Oct 23 19:15	22°M29'56			10397 Sep 21 14:51	0° M	
min. Earth dist.	10396 Oct 30 10:12	19°ML22'53	0.55486 AU	desc. node	10397 Sep 22 01:44	0° M ₁7'55	
inferior conj	10396 Nov 01 05:06	18°ML19'50	-5°45'02	retrograde	10397 Sep 30 01:42	2°M51'24	
minimum elong	10396 Nov 01 04:32	18°ML20'39	5°44'40	evening set	10397 Oct 02 23:30	2° M $_{3}2'22$	
morning rise	10396 Nov 09 15:39	14°ML27'17			10397 Oct 09 09:46	30° ₹ Ω	
direct	10396 Nov 12 12:54	14°ML07'00		inferior conj	10397 Oct 11 23:54	28° ≏ 34'41	-5°12'34
morning max el	10396 Nov 23 06:28	19°MJ11'24	20°23'53	minimum elong	10397 Oct 11 15:47	28° ≏ 46′03	5°10'54
asc. node	10396 Nov 28 08:31	25°M04'56		min. Earth dist.	10397 Oct 11 17:18	28° ≏ 43'56	0.54684 AU
	10396 Dec 01 15:50	0° ∡ ¹		morning rise	10397 Oct 20 09:18	24° ≏ 46'56	
morning set	10396 Dec 11 21:16	19° ∡ 11'45		direct	10397 Oct 23 23:12	24° ≏ 18'57	
	10396 Dec 17 02:54	0°ප		morning max el	10397 Nov 05 05:00	0° ™ 06'52	21°56'57
		_			10397 Nov 05 02:03	0°M₊	
superior conj	10396 Dec 19 10:33	4°る43'57		asc. node	10397 Nov 15 05:27	12°M57'59	
minimum elong	10396 Dec 19 12:56	4°る56'00	1°26'28		10397 Nov 24 09:29	0° ∡ ¹	
max. Earth dist.	10396 Dec 24 20:21	15° පි 24'20	1.36402 AU	morning set	10397 Nov 26 07:21	3° ∡ ¹58′23	
evening rise	10396 Dec 28 16:35	22° පි 36'11				_	
desc. node	10397 Jan 01 03:01	28° る 45'06		superior conj	10397 Dec 03 10:27	19° ⋌ '05'35 _	1°36'30
	10397 Jan 01 20:12	0° ≈		minimum elong	10397 Dec 03 11:41	19° ⋌ 12'08	1°36'54
	10397 Jan 21 09:11	0° ₩		max. Earth dist.	10397 Dec 07 09:36	27° ⋌ 17'44	1.34538 AU
evening max el	10397 Feb 02 05:49	13° ¥ 56′38	25°57'40		10397 Dec 08 17:51	0°る	
retrograde	10397 Feb 14 19:48	21°) €07'22		evening rise	10397 Dec 11 17:31	5°る51'08	
evening set	10397 Feb 20 22:11	18°) 38'11		desc. node	10397 Dec 19 00:00	19° ろ 08'18	
asc. node	10397 Feb 24 07:15	15° ¥ 10′07	0.67120.411	. 1	10397 Dec 25 13:38	0° ≈	26052144
min. Earth dist.	10397 Feb 25 04:12	14° ¥ 06'35	0.67129 AU	evening max el	10398 Jan 15 19:20	27°≈38'44	26°52'44
inferior conj	10397 Feb 26 17:08	12° 光 11'05 12° 光 14'40	0°46'37	. 1	10398 Jan 18 09:57	0° \	
minimum elong	10397 Feb 26 15:59	6° H 22'31	0°46'22	retrograde	10398 Jan 29 00:23	4° € 59'48 2° € 25'51	
morning rise direct	10397 Mar 04 10:24 10397 Mar 07 16:14	5° X 22'29		evening set	10398 Feb 04 13:42 10398 Feb 07 04:31	2°π25'51 30°R≈	
morning max el	10397 Mar 14 09:25	9° ₩ 00'52	18°48'27	min. Earth dist.	10398 Feb 07 04.31 10398 Feb 08 13:56	30 K≈ 28°≈28'32	0.65842 AU
morning max er	10397 Mar 14 09:23 10397 Mar 29 15:28	9 Λ 00 32	10 40 27	inferior conj	10398 Feb	26°≈07'15	
desc. node	10397 Mar 29 13.28 10397 Mar 30 03:34	0° Υ 46'45		minimum elong	10398 Feb 10 14:44 10398 Feb 10 15:03	26°≈06'21	0°10'52
morning set	10397 Mai 30 03:34 10397 Apr 05 09:43	10° Υ 30'33		transit middle	10398 Feb 10 15:03	26°≈06'21	0°10'52
morning set	10397 Apr 17 21:24	0°8		transit begin	10398 Feb 10 12:52	26°≈12'40	0 10 32
max. Earth dist.	10397 Apr 20 07:02		1.45483 AU	transit end	10398 Feb 10 17:13	26°≈00'02	
max. Earth dist.	10357 11p1 20 07.02	3 0 13 32	1.15105710	asc. node	10398 Feb 11 04:28	25°≈27'38	
superior conj	10397 Apr 21 18:59	6° 8 06'29	-2°04'49	morning rise	10398 Feb 16 17:36	20°≈30'18	
minimum elong	10397 Apr 21 12:25	5° 8 40'43		direct	10398 Feb 19 13:29	19° ≈ 46′29	
S	10397 May 06 19:45	0°II		morning max el	10398 Feb 25 23:34	23° ≈ 10'31	18°11'11
evening rise	10397 May 07 00:36	0° Ⅱ 19'31		C	10398 Mar 03 13:04	0°) €	
greatest brilliancy	10397 May 12 22:58	9° Ⅱ 53'15	-0.9m	morning set	10398 Mar 16 22:05	20° ¥ 57'07	
asc. node	10397 May 23 05:20	25° II 32'56		desc. node	10398 Mar 17 00:20	21° ¥ 06'16	
	10397 May 26 19:48	0ಂತಾ			10398 Mar 22 13:05	$0^{\circ}\Upsilon$	
evening max el	10397 May 27 16:11	0°953'10	18°35'30				
retrograde	10397 Jun 03 04:37	4° © 25'58		superior conj	10398 Apr 01 01:33	15° Ƴ 04'34	-1°37'12
evening set	10397 Jun 06 09:34	3° 5 27'45		minimum elong	10398 Mar 31 16:02	14° Y 27'17	1°36'20
	10397 Jun 10 06:37	30°RⅡ		max. Earth dist.	10398 Apr 03 03:05	18° Ƴ 18'43	1.45615 AU
inferior conj	10397 Jun 12 01:53	27° Ⅱ 52'29	3°08'46		10398 Apr 10 14:54	$0^{\circ}S$	
minimum elong	10397 Jun 12 03:17	27° Ⅱ 48'11	3°08'07	evening rise	10398 Apr 17 03:44	10° 8 10'03	
min. Earth dist.	10397 Jun 14 02:41	25° Ⅱ 24'49	0.65230 AU	greatest brilliancy	10398 Apr 29 00:15	28° 8 27'33	-0.7m
morning rise	10397 Jun 17 20:10	21° Ⅱ 33'07			10398 Apr 30 00:51	Π °0	
direct	10397 Jun 24 09:00	18° Ⅱ 49'38		asc. node	10398 May 10 02:29	13° Ⅱ 34'24	
desc. node	10397 Jun 26 03:42	19° Ⅱ 00'25		evening max el	10398 May 11 00:50	14° Ⅲ 33'01	19°17'03
morning max el	10397 Jul 07 18:33		27°05'28	retrograde	10398 May 18 01:23	18° Ⅱ 30'03	
	10397 Jul 10 19:42	0° ©		evening set	10398 May 21 14:37	17° Ⅱ 16'28	2010:05
	10397 Jul 31 22:47	0°Ω		inferior conj	10398 May 27 01:00	11° Ⅱ 26'04	3°18'06
morning set	10397 Aug 12 09:15	20° Ω 31'14	1 22/74 433	minimum elong	10398 May 27 01:13	11° Ⅱ 25'22	3°17'39
max. Earth dist.	10397 Aug 16 18:27	29° Ω 12'21	1.33674 AU	min. Earth dist.	10398 May 28 10:45	9° Ⅱ 36'16	0.66758 AU
1	10397 Aug 17 03:48	0°M)		morning rise	10398 Jun 01 11:22	5° Ⅱ 05'23	
asc. node	10397 Aug 19 04:58	4° Mp 13'17		direct	10398 Jun 07 15:15	2° Ⅱ 23'21	
aumonia	10207 4 20 20 00	70 m 2010/	0016104	desc. node	10398 Jun 13 00:45	4° Ⅱ 02'41	25057142
superior conj	10397 Aug 20 20:06	7° M) 38'06	0°16'04	morning max el	10398 Jun 20 05:12	9° Ⅱ 54'37	25°57'42
minimum elong	10397 Aug 20 19:17	7° Mp 33'50	0°15'39		10398 Jul 06 02:01 10398 Jul 24 12:21	0°Ω 0°©	
behind sun begin	10397 Aug 20 18:02	7° m 27'15			10370 Jul 24 12:21	0 86	

	10400 16 16 10 27	00 42 512 1		i matra	10401 4 00 16 21	2200027100	0.60626.444
desc. node	10400 May 16 18:37	8° 8 35'31		min. Earth dist.	10401 Apr 08 16:21	23° Y '37'08	0.68636 AU
	10400 Jun 02 01:23	0°II		morning rise	10401 Apr 14 02:36	17° Y ′06′04	
morning set	10400 Jun 18 14:06	25° Ⅱ 47'33		direct	10401 Apr 18 16:08	15° Y 12'39	
	10400 Jun 21 02:12	0 \circ \odot		morning max el	10401 Apr 27 14:25	20° Y 23'54	21°37'18
max. Earth dist.	10400 Jun 22 21:13	3° © 03'53	1.39784 AU	desc. node	10401 May 03 15:28	27° Y ′20'26	
					10401 May 05 16:52	9° 8	
superior conj	10400 Jun 30 15:01	16° © 50'42	-1°20'01		10401 May 26 06:19	$\Pi^{\circ}0$	
minimum elong	10400 Jun 30 20:21	17° © 15'12	1°19'43	morning set	10401 May 29 15:45	5° Ⅱ 20′24	
-	10400 Jul 07 14:56	$0^{\circ}\Omega$		max. Earth dist.	10401 Jun 04 22:39	15° Ⅱ 31'43	1.41980 AU
asc. node	10400 Jul 09 19:42	4° Ω 12'46					
evening rise	10400 Jul 10 06:30	5° Ω 04'29		superior conj	10401 Jun 12 12:17	28° Ⅱ 21'27	-1°49'02
evening rise	10400 Jul 25 09:08	0° m)		minimum elong	10401 Jun 12 18:41	28° II 49'16	
avaning may al		ران 0° الله 59'27	18°33'12	minimum clong	10401 Jun 13 10:53	0°95	1 40 54
evening max el	10400 Jul 26 07:55		18 33 12				
retrograde	10400 Aug 03 04:42	4° m 55'34		evening rise	10401 Jun 23 12:28	18° 5 06'17	
evening set	10400 Aug 05 05:50	4° m 40'25		asc. node	10401 Jun 26 16:40	23°953'31	
desc. node	10400 Aug 12 17:32	0° Mp 26′33			10401 Jun 30 03:08	$0^{\circ}\Omega$	
inferior conj	10400 Aug 13 01:04	0° Mp 12′02	-0°05'47	evening max el	10401 Jul 09 17:35	13° Ω 46′16	18°09'24
minimum elong	10400 Aug 13 00:50	0° Mp 12′29	0°05'59	retrograde	10401 Jul 16 15:44	17° Ω 17'04	
transit middle	10400 Aug 13 00:50	0° m 12′29	0°05'59	evening set	10401 Jul 19 00:24	16° Ω 53′02	
transit begin	10400 Aug 12 21:29	0° Mp 18'56		inferior conj	10401 Jul 26 00:50	12° Ω 03'45	1°19'42
transit end	10400 Aug 13 04:11	0° Mp 06'01		minimum elong	10401 Jul 26 03:09	11° Ω 58'32	1°18'31
	10400 Aug 13 07:17	30°RΩ		min. Earth dist.	10401 Jul 29 08:24	9° Ω 05'52	0.59810 AU
min. Earth dist.	10400 Aug 16 07:54	27° Ω 40'58	0.57626 AU	desc. node	10401 Jul 30 14:44	8°Ω03'31	0.00010110
	10400 Aug 20 16:20	24°Ω57'29	0.37020710	morning rise	10401 Aug 02 02:52	6° Ω 18'21	
morning rise	_			-	•	4°Ω20'27	
direct	10400 Aug 26 14:25	23° Ω 29'00		direct	10401 Aug 08 13:45		
	10400 Sep 08 19:27	0° ™		morning max el	10401 Aug 22 21:52	12° Ω 12'30	27°43'15
morning max el	10400 Sep 09 22:26	1° m 03'30	26°51'31		10401 Sep 05 22:34	0° m)	
	10400 Sep 30 11:49	0∘ 亚		asc. node	10401 Sep 22 16:53	29° m 58'39	
asc. node	10400 Oct 05 20:04	10° ≙ 11'41			10401 Sep 22 17:09	0∘ ত	
morning set	10400 Oct 09 16:17	18° ഫ 08'35		morning set	10401 Sep 23 22:24	2° ₽ 31'54	
	10400 Oct 15 02:34	0° M .		max. Earth dist.	10401 Sep 30 04:49	16° ≏ 06'15	1.31504 AU
					•		
superior conj	10400 Oct 16 14:03	3° M ₊17'21	1°28'45	superior conj	10401 Oct 01 01:31	18° ≏ 01'04	1°14'50
minimum elong	10400 Oct 16 12:14	3°ML07'16	1°28'49	minimum elong	10401 Sep 30 23:18	17° ≏ 48'47	1°14'38
max. Earth dist.	10400 Oct 16 19:26	3°M47'23	1.31542 AU	mannam viong	10401 Oct 06 11:37	0°M	1 1.50
evening rise	10400 Oct 10 19:20 10400 Oct 23 09:55	18°M13'49	1.31342710	evening rise	10401 Oct 07 18:51	2°M48'46	
evening rise		10 IIL1349 0° √		evening rise		2 11C46 40 0° ✓	
	10400 Oct 29 05:11				10401 Oct 22 04:50		
desc. node	10400 Nov 08 15:18	18° ∡ 06′22		desc. node	10401 Oct 26 12:29	6° ∡ 127'30	
	10400 Nov 17 06:25	0°ಕ		evening max el	10401 Nov 04 19:39	17° ∡ ¹26'41	25°54'10
evening max el	10400 Nov 22 22:41	6° る 07'26	26°58'01	retrograde	10401 Nov 18 17:17	24° ∡ ¹28'37	
retrograde	10400 Dec 06 20:49	13° る 17'07		evening set	10401 Nov 24 23:59	22° ∡ ¹55'57	
evening set	10400 Dec 13 17:30	11° る 15'43		min. Earth dist.	10401 Nov 29 08:16	20° ≯ 20′25	0.58117 AU
min. Earth dist.	10400 Dec 17 13:12	8° ⋜ 36′00	0.60204 AU	inferior conj	10401 Dec 02 09:55	18° ₹ ′09'09	-4°53'34
inferior conj	10400 Dec 20 17:03	6° ප 00'03	-3°45'36	minimum elong	10401 Dec 02 17:38	17° ∡ 55′20	4°51'22
minimum elong	10400 Dec 21 00:23	5° る 44'56	3°42'43	morning rise	10401 Dec 10 13:42	13° ∡ ′46′11	
morning rise	10400 Dec 28 09:54	1° る 14'28		direct	10401 Dec 12 19:06	13° ∡ ³30′18	
direct	10400 Dec 30 13:09	0° る 56'55		asc. node	10401 Dec 19 16:56	16° ∡ 14'38	
asc. node	10401 Jan 01 19:53	1° る 17'48		morning max el	10401 Dec 21 06:19	17° × 7'37'09	18°40'58
morning max el	10401 Jan 06 23:48	4°る39'23	18°04'16	morning max or	10401 Dec 21 00:19 10401 Dec 30 04:08	0°る	10 10 20
=			18 04 10			13° る 34'41	
morning set	10401 Jan 22 14:54	29° る 22'44		morning set	10402 Jan 06 10:39		
	10401 Jan 22 22:54	0° ≈			10402 Jan 14 23:08	0° ≈ ≈	
	10401 E 1 01 11 1	170 2011 -	0002145		10402 1 17 02 55	00 - 22120	005.4120
superior conj	10401 Feb 01 11:47	17° ≈ 28'15		superior conj	10402 Jan 15 03:56	0° ≈ 22'29	0°54'28
minimum elong	10401 Feb 01 13:38	17° ≈ 36′30	0°23'50	minimum elong	10402 Jan 15 07:00	0° ≈ 36'51	0°54'28
desc. node	10401 Feb 04 14:41	22° ≈ 57'13		desc. node	10402 Jan 22 11:31	13° ≈ 39′01	
	10401 Feb 08 17:51	0° ∀		max. Earth dist.	10402 Jan 22 10:40	13° ≈ 35′18	1.39802 AU
max. Earth dist.	10401 Feb 09 02:42	0°) 37′00	1.41931 AU	evening rise	10402 Jan 26 11:46	20° ≈ 32'01	
evening rise	10401 Feb 14 10:41	9°) €20'53			10402 Feb 01 06:34	0°)	
-	10401 Feb 27 22:40	0° Υ			10402 Feb 22 02:14	0° Y	
evening max el			22°41'48	evening max el	10402 Mar 02 09:32	9° Ƴ 31'49	24°02'11
	10401 Mar 19 19:15	23" 43"33		0			-
e venning man er		25° Y 43'55 0° と		retrograde	10402 Mar 13 12:16	16° ℃ 03'47	
	10401 Mar 24 22:13	0°8		retrograde	10402 Mar 13 12:16	16° ℃ 03'47 14° ℃ 44'11	
retrograde	10401 Mar 24 22:13 10401 Mar 29 18:58	0° と 1° と 38'14		asc. node	10402 Mar 17 15:20	14° Ƴ 44'11	
	10401 Mar 24 22:13 10401 Mar 29 18:58 10401 Mar 30 18:07	0°8 1°838'14 1°833'42		asc. node evening set	10402 Mar 17 15:20 10402 Mar 18 19:44	14° Υ 44'11 13° Υ 50'23	0.60274.417
retrograde asc. node	10401 Mar 24 22:13 10401 Mar 29 18:58 10401 Mar 30 18:07 10401 Apr 03 03:49	0°8 1°838'14 1°833'42 30°8°		asc. node evening set min. Earth dist.	10402 Mar 17 15:20 10402 Mar 18 19:44 10402 Mar 23 12:40	14° Υ 44'11 13° Υ 50'23 8° Υ 24'09	0.68374 AU
retrograde asc. node evening set	10401 Mar 24 22:13 10401 Mar 29 18:58 10401 Mar 30 18:07 10401 Apr 03 03:49 10401 Apr 03 14:29	0°8 1°838'14 1°833'42 30°8° 29°°7'38'34		asc. node evening set min. Earth dist. inferior conj	10402 Mar 17 15:20 10402 Mar 18 19:44 10402 Mar 23 12:40 10402 Mar 24 07:06	14°Υ44'11 13°Υ50'23 8°Υ24'09 7°Υ21'40	1°59'34
retrograde asc. node	10401 Mar 24 22:13 10401 Mar 29 18:58 10401 Mar 30 18:07 10401 Apr 03 03:49	0°8 1°838'14 1°833'42 30°8°		asc. node evening set min. Earth dist.	10402 Mar 17 15:20 10402 Mar 18 19:44 10402 Mar 23 12:40	14° Υ 44'11 13° Υ 50'23 8° Υ 24'09	

George Greek Gre		10402 4 01 02 20	200-1/		,	1040234 04 12 22	2601/22105	
Montrough make Montrough park Mont		10402 Apr 01 03:28	30° ₹		asc. node	10403 Mar 04 12:32	26° ₩ 23'05	
Memory M	direct	•						
description Intelligance of 10 (1900 Agr) and 10 (1900 Agr) a					,	10403 Mar 08 12:54		
Montaing set Mode Angle 91527 975 4881284 1972	morning max el	10402 Apr 10 10:41	4° Ƴ 13'59	20°20'25	minimum elong	10403 Mar 08 11:13	21°) 33'28	1°15'25
mompasses 19402 Mays 18 9014 1975 5976 mompasses 10403 Mays 12 002 6"17 13812 AU greatest belling 10403 Mays 12 002 6"17 0.7 10403 Mays 12 002 6"17 0.7 0.0 0.0 6"17 0.0 0.0 0.0 6"17 0.0 0.0 0.0 6"17 0.0	desc. node	10402 Apr 20 12:16	16° Ƴ 43'08		morning rise	10403 Mar 14 01:46	15°) 34′05	
May		10402 Apr 29 15:27	0° 8		direct	10403 Mar 17 13:54	14° ¥ 23′28	
1960 1971 1972 1972 1972 1972 1972 1972 1973	morning set	10402 May 08 19:28	13° 8 56'36		morning max el	10403 Mar 24 14:51	18°) 15′44	19°17'29
1960 1971 1972 1972 1972 1972 1972 1972 1973	max. Earth dist.	10402 May 18 07:10	28° 8 52'07	1.43812 AU	-	10403 Apr 02 22:00	$0^{\circ}\mathbf{\Upsilon}$	
Superior con					greatest brilliancy		5° Ƴ 13'49	-0.7m
minimalementer 1000 May 2 4 1407 9°T00°31 20°851 mase Fairth dist 0003 Apr 2 2 1575 0°T00°31 1.080 Care 10 100	superior coni	10/02 May 2/ 00:58	8°П/10'22	-2°08'33		-		
1902 1902 1903 1905 1974 1979		•			morning set			
centing from 0.002, Jun 3.0 0.0220 0.	minimum elong	•		2 08 31	E 4 E 4	-		1 45070 ATT
ace naced 19042, Jun 3 1 3440 137981 588 superior cony 1903 3 May 64 8070 18°C550 21'120 retorgande 19040 Jun 2 9 17:36 0°42 181 18°0500 19040 May 11 1452 0°12 11'120 19040 May 11 1452 0°12 11'120					max. Earth dist.	10403 Apr 30 21:37	12°03214	1.450/0 AU
evening mared 10400 Jun 2 of 0.647 by 0.04287 by 19.050 by 1000 by 10	•							
retrograde 10402 Jun 27 1959 0°\$\times 0°\$\times 00403 Jun 27 1954 0°\$\times 0°\$\times 00403 Jun 21 102 102 102 102 102 102 102 102 102	asc. node	10402 Jun 13 13:40	13° © 15'58			•	18° 8 18'25	-2°12'00
Performance 10,002 Jun 2 0 1736 0761873 1976 19	evening max el	10402 Jun 23 06:47	26° © 57'24	18°05'00	minimum elong	10403 May 04 05:44	18° 8 08'55	2°12'18
cending set 10402 Jul 01 1524 09°92426 sec. mode 10403 Jul 02 100 20°92426 sec. mode 10403 Jul 08 1835 29°92426 sec. mode 10403 Jul 08 1835 29°92438 29°1971 evening mace 10403 Jul 08 20°10 29°21924 evening mace 10403 Jul 18 08 107 29°21924 29°1870 returning mace 10403 Jul 18 08 20°10 108°2247 108°2187 <td></td> <td>10402 Jun 27 19:59</td> <td>$0^{\circ}\Omega$</td> <td></td> <td></td> <td>10403 May 11 14:52</td> <td>$\Pi$$\circ$0</td> <td></td>		10402 Jun 27 19:59	$0^{\circ}\Omega$			10403 May 11 14:52	Π \circ 0	
1	retrograde	10402 Jun 29 17:36	0° Ω 18'13		evening rise	10403 May 18 17:11	11° Ⅲ 38'46	
evening set inferior cori gi 10402 Jul go 2: 1042 29°84726 sex. node 10403 Jul go 2: 2013 29°81785 8°1971 miniferior cori gi 10402 Jul go 2: 11 1748 21°82073 2°1810 evening max 10403 Jul go 3: 04 13°29473 8°1971 min. Earth dist 10402 Jul 1 1748 21°82073 20°8073 AU evening set 10403 Jul go 3: 05 13°29473 2°5011 des. node 10402 Jul go 1: 11: 15 17°80907 minimum clong 10403 Jul go 2: 03: 13 7°82870 2°5011 direct 10402 Aug 10: 11: 10 17°80907 minimum clong 10403 Jul go 0: 00 9°7071 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100 10°8074 6°4100	•	10402 Jul 01 15:24	30°Rூ			10403 May 29 23:23	0ം ഉ	
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Mode	direct	10402 Jul 21 23:54	16° © 04'40		min. Earth dist.	10403 Jun 24 12:42	4° 5 349'24	0.64169 AU
Monding set 10402 Aug 30 07:13 0°Ph 10403 Sep 10° 125 10°Ph 10°Ph 10403 Sep 10° 125 10°Ph 10°Ph 10°Ph 10403 Sep 10° 125 10°Ph 1	morning max el	10402 Aug 05 03:42	24° © 06'36	27°56'42	morning rise	10403 Jun 28 03:19	1° © 17'37	
moming set 10402 Sep 07 22:58 16° By 56'S direct 10403 Jul 0 10 100 00 0°E 28°B18'VS Comming max learning 10403 Jul 10 100 00 0°E 28°B18'VS 28°B18'VS 10403 Jul 10 100 00 0°E 2000 0°E 28°B18'VS 28°B18'VS 10403 Jul 10 100 10 00 0°E 20°E33'YS 28°B18'VS 28°B18'VS <t< td=""><td></td><td>10402 Aug 10 11:10</td><td>$0^{\circ}\Omega$</td><td></td><td></td><td>10403 Jun 30 00:06</td><td>30°RⅡ</td><td></td></t<>		10402 Aug 10 11:10	$0^{\circ}\Omega$			10403 Jun 30 00:06	30°RⅡ	
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evening set	10404 Feb 14 16:44	11° ¥ 53'43		evening max el	10405 Jan 08 01:38	20° ≈ 44'26	27°09'46
min. Earth dist.	10404 Feb 18 20:08	7°) 36'44	0.66621 AU	retrograde	10405 Jan 21 11:41	28°≈06'59	27 07 40
asc. node	10404 Feb 19 09:45	6°\;\;\\\55'43	0.00021 AU	evening set	10405 Jan 28 04:41	25°≈33'13	
			0922100	Č			0 (5104 ATT
inferior conj	10404 Feb 20 14:09	5° ∺ 29'09	0°23'09	min. Earth dist.	10405 Feb 01 02:51	21°≈49'36	0.65184 AU
minimum elong	10404 Feb 20 13:32	5° ∺ 31′01	0°23'09	inferior conj	10405 Feb 03 08:32	19°≈19'58	
morning rise	10404 Feb 26 11:13	29° ≈ 45′11		minimum elong	10405 Feb 03 09:40	19° ≈ 16'49	0°37'39
	10404 Feb 26 01:26	30°R ≈		asc. node	10405 Feb 05 06:59	17° ≈ 14'12	
direct	10404 Feb 29 12:30	28° ≈ 52'37		morning rise	10405 Feb 09 16:06	13° ≈ 48′25	
	10404 Mar 04 02:18	0° ℋ		direct	10405 Feb 12 08:16	13° ≈ 10′21	
morning max el	10404 Mar 07 01:55	2° ∺ 23'53	18°30'32	morning max el	10405 Feb 18 17:39	16° ≈ 31'56	18°00'22
desc. node	10404 Mar 24 05:50	26°) 44′07			10405 Feb 28 14:39	0° ∀	
	10404 Mar 26 07:27	0 ° Υ		morning set	10405 Mar 08 16:31	13° ¥ 10′21	
morning set	10404 Mar 27 15:40	2° Y 07'19		desc. node	10405 Mar 11 02:35	17°) €08'45	
-					10405 Mar 19 00:52	$0^{\circ}\mathbf{Y}$	
superior conj	10404 Apr 12 15:32	27° Ƴ 14'47	-1°55'14				
minimum elong	10404 Apr 12 06:51		1°54'48	superior conj	10405 Mar 23 01:29	6° Y ′24'40	-1°21'07
max. Earth dist.	10404 Apr 12 15:57	27° Υ 16'25	1.45628 AU	minimum elong	10405 Mar 22 16:50	5°Υ'50'22	
max. Lattii dist.	10404 Apr 12 13:37 10404 Apr 14 09:47	0°8	1.43028 AC	max. Earth dist.	10405 Mar 26 11:50	11° Υ 49'09	1.45444 AU
	1	_		max. Earth dist.			1.43444 AU
evening rise	10404 Apr 28 08:48	21° 8 57'26			10405 Apr 07 04:35	0°8	
	10404 May 03 10:35	0°II		evening rise	10405 Apr 08 04:14	1° 8 31'11	
greatest brilliancy	10404 May 07 08:23	6° Ⅱ 09'11	-0.8m	greatest brilliancy	10405 Apr 21 21:40	22° 8 23'43	-0.7m
asc. node	10404 May 17 07:50	20° Ⅱ 39'15			10405 Apr 27 05:20	Π °0	
evening max el	10404 May 20 07:22	24° Ⅱ 02'27	18°51'10	evening max el	10405 May 03 13:59	7° Ⅱ 43'57	19°39'41
retrograde	10404 May 27 00:06	27° Ⅱ 44′08		asc. node	10405 May 04 05:01	8° Ⅱ 20'49	
evening set	10404 May 30 08:26	26° Ⅱ 39'37		retrograde	10405 May 10 21:51	11° Ⅲ 54'11	
inferior conj	10404 Jun 04 21:52	20° Ⅱ 58′00	3°14'30	evening set	10405 May 14 14:53	10° Ⅲ 33'57	
minimum elong	10404 Jun 04 22:46	20° I 55'10	3°13'56	inferior conj	10405 May 19 23:40	4° Ⅱ 37'53	3°17'56
min. Earth dist.	10404 Jun 06 16:21	18° Ⅱ 45'05	0.65934 AU	minimum elong	10405 May 19 23:24	4° Ⅱ 38'45	3°17'29
morning rise	10404 Jun 10 12:26	14° Ⅱ 37'29		min. Earth dist.	10405 May 21 03:16	3° Ц 06'07	0.67277 AU
direct	10404 Jun 16 22:00	11° I I53'01		Time Darvir Gibt.	10405 May 23 15:24	30°R 8	0.07277110
desc. node	10404 Jun 20 06:06	12° I [31'07		morning rise	10405 May 25 07:34	28° 8 17'59	
		12 Ⅱ 3107 19° Ⅱ 39'44	26°39'08	direct		25° 8 39'18	
morning max el	10404 Jun 30 00:03	19 ப 3944	20 39 08		10405 May 31 06:53		
	10404 Jul 08 19:32			desc. node	10405 Jun 07 03:06	28° 8 18'37	
	10404 Jul 28 11:53	0°N			10405 Jun 09 07:03	0°П	
morning set	10404 Aug 04 20:58	13° Ω 21'45		morning max el	10405 Jun 12 10:03	2° ∏ 55'37	25°23'24
max. Earth dist.	10404 Aug 08 23:27	21° Ω 19'24	1.34348 AU		10405 Jul 03 00:02	0 \circ ∞	
asc. node	10404 Aug 13 07:23	0° Mp 06′44		morning set	10405 Jul 18 11:12	25° © 42'37	
	10404 Aug 13 06:05	0° m p			10405 Jul 20 19:32	$0 {\circ} \Omega$	
				max. Earth dist.	10405 Jul 22 02:35	2° Ω 24'38	1.36256 AU
superior conj	10404 Aug 13 16:07	0° m 52′01	0°03'36				
minimum elong	10404 Aug 13 15:56	0° m 51'04	0°03'17	superior conj	10405 Jul 28 06:29	14° Ω 20′08	-0°28'02
behind sun begin	10404 Aug 13 10:14	0° Mp 21′31		minimum elong	10405 Jul 28 08:14	14° Ω 28'51	0°28'05
behind sun end	10404 Aug 13 21:38	1° m/20'40		asc. node	10405 Jul 31 04:15	20° Ω 10'49	
evening rise	10404 Aug 21 03:03	16° m 32'03			10405 Aug 04 23:47	0° m)	
* · · · · · · · · · · · · · · · · · · ·	10404 Aug 27 20:51	0∘ ⊽		evening rise	10405 Aug 05 08:55	0° mp 46'29	
evening max el	10404 Sep 09 13:33	° − 18° ≏ 27'38	21°09'45	evening max el	10405 Aug 22 20:27	29° m) 28'08	19°52'21
desc. node	10404 Sep 07 13:33 10404 Sep 16 04:15	23° ⊆ 12'19	21 07 43	evening max er	10405 Aug 23 09:37	೨೨ ಗ್ನು 20 00 0° ೧	1) 3221
retrograde	10404 Sep 21 11:03	24° £ 21'39		retrograde	10405 Sep 02 01:49	ა _ 4° _ 32'36	
•	•			Č	-		
evening set	10404 Sep 23 21:28	24° £ 07'50	40.4410.5	desc. node	10405 Sep 03 01:32	4° £ 29'56	
inferior conj	10404 Oct 03 00:43	20° £ 12'20		evening set	10405 Sep 03 23:08	4° Ω 23'00	
minimum elong	10404 Oct 02 15:03	20° £ 25'56	4°39'06	inferior conj	10405 Sep 12 21:41	0° ჲ 21'59	
min. Earth dist.	10404 Oct 03 11:30	19° ≏ 57'08	0.54617 AU	minimum elong	10405 Sep 12 13:43	0° ჲ 34'09	2°57'10
morning rise	10404 Oct 11 09:07	16° ≏ 19'51			10405 Sep 13 12:03	30°R, Mp	
direct	10404 Oct 15 06:44	15° ≏ 47'05		min. Earth dist.	10405 Sep 14 21:18	29° Mp 09'23	0.55151 AU
morning max el	10404 Oct 28 02:03	21° ≏ 54'34	22°41'08	morning rise	10405 Sep 21 02:43	26° Mp 05′22	
	10404 Nov 04 01:02	0° M .		direct	10405 Sep 25 19:33	25° m 17'01	
asc. node	10404 Nov 09 07:51	8°ML08'34			10405 Oct 07 04:36	0∘ ⊽	
morning set	10404 Nov 19 09:25	27°M37'12		morning max el	10405 Oct 09 13:36	2° ≏ 04'27	24°28'29
	10404 Nov 20 12:18	0°×7		asc. node	10405 Oct 27 04:45	26° ♀ 58'55	
	20.0.1107 20 12.10	V //		300. 11040	10405 Oct 28 19:08	0°M	
superior con:	10/0/ Nov. 26, 00:29	120.720122	1028144	morning set		12°M24'41	
superior conj	10404 Nov 26 09:38	12° 🗷 38'33	1°38'44	morning set	10405 Nov 03 21:15	12 II62441	
minimum elong	10404 Nov 26 10:22	12° 🖈 42'26	1°39'11		1040537 10 15 2	0.770W 0.000	1020121
max. Earth dist.	10404 Nov 29 18:09	19° ∡ ¹42'20	1.33862 AU	superior conj	10405 Nov 10 17:36	27°M20'20	1°39'31
evening rise	10404 Dec 04 08:50	29° ∡ ¹00'34		minimum elong	10405 Nov 10 17:09	27° M 17'56	1°39'55
	10404 Dec 04 21:01	0°ಕ			10405 Nov 11 22:54	0° ∡	
desc. node	10404 Dec 13 02:24	15° ට 04'09		max. Earth dist.	10405 Nov 12 18:44	1° ∡ ¹47'25	1.32591 AU
	10404 Dec 22 10:08	0° ≈		evening rise	10405 Nov 18 02:20	12° ₹ 58′08	

	10405 Nov 27 01:19	0°ಕ		desc. node	10406 Nov 16 20:36	24° ∡ ³31'22	
desc. node	10405 Nov 29 23:29	5° る 01'42			10406 Nov 20 09:52	0°ಕ	
	10405 Dec 17 17:37	0° ≈		evening max el	10406 Dec 03 21:34	16° る 34'03	27°19'35
evening max el	10405 Dec 21 13:37	3° ≈ 57'42	27°30'24	retrograde	10406 Dec 17 18:31	23° る 48'24	
retrograde	10406 Jan 04 06:54	11° ≈ 17'54		evening set	10406 Dec 24 18:46	21° る 33'54	
evening set	10406 Jan 11 06:27	8° ≈ 49'20		min. Earth dist.	10406 Dec 28 12:01	18° る 45'25	0.61419 AU
min. Earth dist.	10406 Jan 15 00:40	5° ≈ 36'27	0.63425 AU	inferior conj	10406 Dec 31 13:24	16° ⋜ 02'36	
inferior conj	10406 Jan 17 17:22	2°≈54'07		minimum elong	10406 Dec 31 19:30	15° る 49'02	2°59'50
minimum elong	10406 Jan 17 20:52	2° ≈ 45'20	1°46'05	morning rise	10407 Jan 07 22:49	11° る 05'22	
	10406 Jan 20 19:08	30°₹ ⋜		direct .	10407 Jan 10 03:10	10° る 45'17	
asc. node	10406 Jan 23 04:09	28°る17'44		asc. node	10407 Jan 10 01:16	10° る 45'19	. = . =
morning rise	10406 Jan 24 13:21	27°る38'04		morning max el	10407 Jan 17 03:28	14° る 17'26	17°52'41
direct	10406 Jan 26 22:21	27° る 10'47			10407 Jan 27 21:51	0° ≈	
	10406 Feb 01 21:23	0° ≈	1 50 1510 0	morning set	10407 Feb 01 19:23	8° ≈ 47'02	
morning max el	10406 Feb 02 11:16	0°≈32'52	17°47'30		1040771 10 10 10	270 40110	0000100
morning set	10406 Feb 18 19:55	25°≈30'33		superior conj	10407 Feb 12 12:12	27°≈49'19	0°02'32
	10406 Feb 21 10:30	0°)		minimum elong	10407 Feb 12 12:27	27°≈50'24	0°02'48
desc. node	10406 Feb 25 23:21	7°) 43′19		behind sun begin	10407 Feb 12 04:10	27°≈14'38	
				behind sun end	10407 Feb 12 20:45	28°≈26'05	
superior conj	10406 Mar 03 06:21	16° ¥ 31'20		desc. node	10407 Feb 12 20:10	28° ≈ 23'37	
minimum elong	10406 Mar 03 02:14	16°) 14′27		P. 4 F.	10407 Feb 13 18:40	0°) {	
max. Earth dist.	10406 Mar 09 06:40	26°) 14'31	1.44539 AU	max. Earth dist.	10407 Feb 19 21:27	10°) 13′26	1.43015 AU
	10406 Mar 11 15:34	0° Υ		evening rise	10407 Feb 26 10:13	20°) (41′23	
evening rise	10406 Mar 18 15:39	10° Y 53'45			10407 Mar 04 11:02	0°Ƴ	
	10406 Mar 31 08:39	0°8	20042121		10407 Mar 25 20:01	0°8	21056415
evening max el	10406 Apr 16 15:01	21° 8 26'54	20°42'31	evening max el	10407 Mar 30 10:32	5° 8 10'02	21°56'17
asc. node	10406 Apr 21 02:13	25° 8 05'43		asc. node	10407 Apr 07 23:25	10° 8 37'48	
retrograde	10406 Apr 24 20:36	26° 8 14'58		retrograde	10407 Apr 08 18:27	10° 8 40'53	
evening set	10406 Apr 28 23:10	24° 8 38'57	2000107	evening set	10407 Apr 13 07:28	8° 8 49'32	2040140
inferior conj	10406 May 04 06:00	18° 8 30'05	3°09'06	inferior conj	10407 Apr 18 14:38	2° 8 30'15	2°49'40
minimum elong	10406 May 04 04:46	18° 8 34'21	3°08'37	minimum elong	10407 Apr 18 12:44	2° 8 36'53	2°49'03
min. Earth dist.	10406 May 04 19:37	17° 8 43'09	0.68161 AU	min. Earth dist.	10407 Apr 18 15:18	2° 8 27'55	0.68587 AU
morning rise	10406 May 09 10:09	12° 8 13'13			10407 Apr 20 10:29	30°₹ Υ	
direct	10406 May 14 20:51	9° 8 48'35		morning rise	10407 Apr 23 17:49	26° ℃ 17'58	
desc. node	10406 May 25 00:01	15° 8 32'33	22055155	direct	10407 Apr 28 15:00	24° Y 12'28	
morning max el	10406 May 25 19:38	16° 8 21'07	23°55'55		10407 May 08 09:17	0° と 29° 丫 53'49	22027/22
	10406 Jun 06 02:09	0° ©		morning max el	10407 May 08 06:50		22°26'22
	10406 Jun 25 23:47 10406 Jun 30 05:20			desc. node	10407 May 11 20:53	3° ႘ 48'58 0° Ⅱ	
morning set		7°906'32	1 20460 AII		10407 May 30 20:52		
max. Earth dist.	10406 Jul 04 00:04	13-994138	1.38469 AU	morning set	10407 Jun 10 22:26	17° Ⅲ 21'07 25° Ⅲ 37'32	1 40742 AII
	10406 I1 11 00.10	2796-10127	1001115	max. Earth dist.	10407 Jun 15 22:07	25°Щ3/32 0°©	1.40742 AU
superior conj	10406 Jul 11 08:18	27°9510'27			10407 Jun 18 11:37	0-99	
minimum elong	10406 Jul 11 12:23	27° © 29'46 0° Ω	1-01-01	superior conj	10407 Jun 22 17:15	0.0021.212.2	1922/04
aga mada	10406 Jul 12 19:53 10406 Jul 18 01:10			1 3	10407 Jun 23 17:15 10407 Jun 23 23:17	9° © 12'33 9° © 39'41	
asc. node		10° Ω 09'11 14° Ω 39'57		minimum elong			1°32'49
evening rise	10406 Jul 20 08:17 10406 Jul 28 13:00	0° m)		evening rise	10407 Jul 03 21:46 10407 Jul 04 22:07	28°503'20 29°557'37	
avanina may al			10055155	asc. node		29 3 03/3/ 0° Ω	
evening max el retrograde	10406 Aug 05 16:26 10406 Aug 14 07:32	11° m, 14'59 15° m, 33'02	10 33 33	evening max el	10407 Jul 04 22:37 10407 Jul 19 22:15	23° Ω 42'40	18°20'39
evening set	10406 Aug 14 07:32	15° My 21'18		retrograde	10407 Jul 19 22:13 10407 Jul 27 08:14	$27^{\circ}\Omega 26'30$	18 20 39
desc. node	10406 Aug 10 03.11 10406 Aug 20 22:47	13° My 24'09		evening set	10407 Jul 27 08.14 10407 Jul 29 12:16	$27^{\circ}\Omega 08'08$	
inferior conj	10406 Aug 24 11:36	11° My 04'02	-1°05'54	inferior conj	10407 Aug 05 23:16	22° Ω 30'51	0°33'36
minimum elong	10406 Aug 24 08:47	11° My 08'59		minimum elong	10407 Aug 05 25:10 10407 Aug 06 00:25	22° Ω 28'29	0°32'50
min. Earth dist.	10406 Aug 27 11:24	8° m ₀ 58'02		desc. node	10407 Aug 00 00:23	$20^{\circ} \Omega 57'59$	0 32 30
morning rise	10406 Sep 01 09:11	6° Mp 10'34	0.30338 AU	min. Earth dist.	10407 Aug 07 13:58 10407 Aug 09 07:53	19° Ω 45'28	0.58519 AU
direct	10406 Sep 06 21:04	4° Mp 58'51		morning rise	10407 Aug 09 07:33 10407 Aug 13 09:04	$17^{\circ} \Omega 01'38$	0.50517 AU
morning max el	10406 Sep 21 02:48	12° m) 18'49	26°06'19	direct	10407 Aug 19 13:12	15° Ω 20'31	
orming max or	10406 Oct 04 21:19	0° ⊽	20 0017	morning max el	10407 Aug 19 13:12 10407 Sep 02 22:16	23°Ω04'18	27°18'03
asc. node	10406 Oct 04 21:19 10406 Oct 14 01:35	0 ♣ 16°♣17'04		morning max ci	10407 Sep 02 22.16 10407 Sep 09 03:02	23 3 (04 18	2, 1003
morning set	10406 Oct 14 01:33 10406 Oct 19 08:12	27° £ 06'49			10407 Sep 09 03:02 10407 Sep 27 22:36	0∘ ت رابا	
morning set	10406 Oct 19 08.12 10406 Oct 20 16:23	27 = 20049 0° M		asc. node	10407 Sep 27 22:36 10407 Sep 30 22:24	0 <u>≈</u> 5° ≏ 55'34	
	10-100 001 20 10.23	O IIO		morning set	10407 Sep 30 22:24 10407 Oct 03 16:38	11° ≏ 39'01	
superior conj	10406 Oct 26 04:25	12° M L07'43	1°34'18	morning set	1070/ 001 03 10.38	11 == 37 01	
minimum elong	10406 Oct 26 04:25	12°1160743		superior conj	10407 Oct 10 16:13	26° £ 55'01	1°23'31
max. Earth dist.	10406 Oct 26 03:01 10406 Oct 27 01:19	14°ML03'25	1.3431 1.31787 AU	minimum elong	10407 Oct 10 16:13	26° 2 43'41	1°23'27
evening rise	10406 Oct 27 01:19 10406 Nov 02 03:42	27°M15'27	1.51/0/ AU	max. Earth dist.	10407 Oct 10 14:11 10407 Oct 10 10:37	26° £ 23'51	1.31463 AU
evening 1180	10406 Nov 02 03:42 10406 Nov 03 11:25	2/°11615′2/ 0° √ 1		max. Darui dist.	10407 Oct 10 10:37 10407 Oct 12 01:28	26° == 23°31 0° M	1.51405 AU
	10-100 1107 03 11.23	· ^			10-10 / OCT 12 01.20	O IIO	

evening rise	10407 Oct 17 10:31	11° M .46'05		minimum elong	10408 Sep 24 00:52	11° ≏ 23'09	1°07'05
evening rise	10407 Oct 26 15:25	0° ∡ ¹		evening rise	10408 Sep 30 20:35	26° £ 23'06	1 07 03
desc. node	10407 Nov 03 17:46	13° × ⁷ 22'08		evening rise	10408 Oct 02 13:23	0°M	
evening max el	10407 Nov 15 23:02	28°×723'10	26°34'37		10408 Oct 19 15:45	0° ∡ 7	
evening man er	10407 Nov 17 18:13	0°ਰ	20 3 . 3 /	desc. node	10408 Oct 20 14:58	1° √ 17'58	
retrograde	10407 Nov 29 21:27	5° る 30'25		evening max el	10408 Oct 27 16:28	9° × 720'54	25°18'28
evening set	10407 Dec 06 13:35	3° る 40'02		retrograde	10408 Nov 10 13:31	16°×719'42	20 10 20
min. Earth dist.	10407 Dec 10 12:50	1° る 04'14	0.59301 AU	evening set	10408 Nov 16 10:06	15°×7'01'27	
	10407 Dec 11 22:27	30°R. ✓		min. Earth dist.	10408 Nov 21 04:35	12° x ⁷ 21'41	0.57291 AU
inferior conj	10407 Dec 13 17:10	28° х 36′25	-4°16'07	inferior conj	10408 Nov 24 01:28	10° х 25'45	
minimum elong	10407 Dec 14 01:02	28° × ⁷ 21'07		minimum elong	10408 Nov 24 08:10	10° х 14′26	
morning rise	10407 Dec 21 15:10	24° х ⁷ 00'37		morning rise	10408 Dec 02 08:32	6° х 12′10	
direct	10407 Dec 23 18:32	23° ∡ ¹44'18		direct	10408 Dec 04 16:25	5° ₹ ¹56'06	
asc. node	10407 Dec 27 22:19	24° ∡ ¹49'26		morning max el	10408 Dec 13 17:02	10° ∡ 16'47	19°03'10
morning max el	10407 Dec 31 14:43	27° ∡ ³36′01	18°17'16	asc. node	10408 Dec 13 19:20	10° ∡ ′22'20	
Ü	10408 Jan 02 19:13	ರ°0			10408 Dec 26 17:28	ರ°0	
morning set	10408 Jan 16 09:06	22° る 42'45		morning set	10408 Dec 30 08:32	7° る 03'59	
	10408 Jan 20 05:18	0° ≈		•			
				superior conj	10409 Jan 07 16:35	23° る 26'29	1°04'58
superior conj	10408 Jan 25 17:13	10° ≈ 12'25	0°37'46	minimum elong	10409 Jan 07 19:42	23° る 41'24	1°05'01
minimum elong	10408 Jan 25 19:48	10° ≈ 24'11	0°37'46		10409 Jan 11 03:56	0° ≈	
desc. node	10408 Jan 30 16:59	19° ≈ 05'52		max. Earth dist.	10409 Jan 14 13:33	6°≈12'21	1.38862 AU
max. Earth dist.	10408 Feb 02 07:09	23° ≈ 33'31	1.41049 AU	desc. node	10409 Jan 16 13:53	9° ≈ 46'33	
	10408 Feb 06 03:31	0° ₩		evening rise	10409 Jan 18 09:19	12° ≈ 55'13	
evening rise	10408 Feb 06 22:59	1° 升 19′52		-	10409 Jan 28 20:49	0° ∀	
•	10408 Feb 25 20:48	0° Υ			10409 Feb 20 00:44	0° Y	
evening max el	10408 Mar 12 02:09	18° Ƴ 55'40	23°16'03	evening max el	10409 Feb 22 15:56	2° Y '45'01	24°35'37
retrograde	10408 Mar 22 13:51	25° Y °07'32		retrograde	10409 Mar 06 05:32	9° Y '30'20	
asc. node	10408 Mar 24 20:37	24° Y '42'29		evening set	10409 Mar 11 18:03	7° Y 12'05	
evening set	10408 Mar 27 14:16	23° Y ′01'54		asc. node	10409 Mar 11 17:49	7° Y 12'35	
inferior conj	10408 Apr 01 23:38	16° Ƴ 35'26	2°20'33	min. Earth dist.	10409 Mar 16 07:48	2° Y ′00'28	0.68133 AU
minimum elong	10408 Apr 01 21:27	16° Ƴ 42'59	2°19'51	inferior conj	10409 Mar 17 07:11	0° Y 42'31	1°42'12
min. Earth dist.	10408 Apr 01 12:06	17° Ƴ 15'11	0.68572 AU	minimum elong	10409 Mar 17 05:09	0° Y 49'16	1°41'33
morning rise	10408 Apr 07 04:33	10° Y ′29′00			10409 Mar 17 19:58	30° ₹	
direct	10408 Apr 11 12:18	8° Y 45'01		morning rise	10409 Mar 22 16:24	24°) 43′27	
morning max el	10408 Apr 19 22:54	13° Y '36'14	21°03'00	direct	10409 Mar 26 11:27	23°) €20'58	
desc. node	10408 Apr 27 17:43	22° Y 51'02		morning max el	10409 Apr 02 22:26	27°) €31′00	19°51'42
	10408 May 02 22:27	9° 8			10409 Apr 05 06:00	0° Y	
morning set	10408 May 20 13:19	26° 8 25'00		desc. node	10409 Apr 14 14:33	12° Y ′26'38	
	10408 May 22 19:55	$\Pi^{\circ}0$			10409 Apr 26 08:35	$0^{\circ}B$	
max. Earth dist.	10408 May 28 01:49	8° Ⅲ 25'30	1.42811 AU	morning set	10409 Apr 29 12:40	4° 8 51'37	
				max. Earth dist.	10409 May 10 13:01	22° 8 04'19	1.44426 AU
superior conj	10408 Jun 04 04:48	20° Ⅱ 16'33	-1°58'52		10409 May 15 11:37	Π $^{\circ}0$	
minimum elong	10408 Jun 04 10:46	20° Ⅱ 41'58	1°58'56				
	10408 Jun 09 19:51	0°ಅ		superior conj	10409 May 15 16:09	0°Ⅱ18′22	-2°12'21
evening rise	10408 Jun 15 21:08	10°9545'40		minimum elong	10409 May 15 17:57	0°Ⅱ25'39	2°12'44
asc. node	10408 Jun 20 19:05	19° © 30'54		evening rise	10409 May 29 01:35	22° Ⅲ 36'46	
	10408 Jun 27 03:18	$0^{\circ}\Omega$			10409 Jun 02 09:46	0 \circ \mathfrak{S}	
evening max el	10408 Jul 02 09:53	6° Ω 40'50	18°05'19	asc. node	10409 Jun 07 16:07	8° 5 43'42	
retrograde	10408 Jul 09 01:56	10° Ω 05′28		evening max el	10409 Jun 15 23:41	20° © 00'16	18°08'54
evening set	10408 Jul 11 13:55	9° Ω 36'48		retrograde	10409 Jun 22 08:35	23° © 20'45	
inferior conj	10408 Jul 18 07:17	4° £ 39′29	1°48'01	evening set	10409 Jun 25 04:28	22° © 39'12	
minimum elong	10408 Jul 18 10:00	4° Ω 32'59	1°46'45	inferior conj	10409 Jul 01 07:55	17° © 23'10	2°37'30
min. Earth dist.	10408 Jul 21 12:12	1° Ω 36'49	0.60773 AU	minimum elong	10409 Jul 01 10:28	17° © 16'12	2°36'26
	10408 Jul 23 09:27	30° ₹ॐ		min. Earth dist.	10409 Jul 04 01:29	14° © 26'23	0.62998 AU
desc. node	10408 Jul 24 17:09	29° 5 01'07		morning rise	10409 Jul 07 14:47	11° © 11'52	
morning rise	10408 Jul 25 03:22	28° 5 44'02		desc. node	10409 Jul 11 14:18	9° © 04'57	
direct	10408 Jul 31 17:45	26° 5 34'06		direct	10409 Jul 14 08:05	8° 5 40'21	
	10408 Aug 09 17:37	$0^{\circ}\Omega$		morning max el	10409 Jul 28 08:06	16° © 42'49	27°50'55
morning max el	10408 Aug 15 00:32	4° £ 32′05	27°53'41		10409 Aug 08 07:44	0 $^{\circ}\Omega$	
	10408 Sep 02 22:55	0° m)			10409 Aug 26 17:03	0° m)	
morning set	10408 Sep 16 20:39	25° m 55'04		morning set	10409 Aug 31 18:07	9° ™ 49'23	
asc. node	10408 Sep 16 19:13	25° m 47'38		asc. node	10409 Sep 03 16:04	15° Mp 48'26	
	10408 Sep 18 19:18	0∘ ⊽		max. Earth dist.	10409 Sep 05 22:38	20°M 36'51	1.32292 AU
max. Earth dist.	10408 Sep 22 18:59	8° ॒ 38′18	1.31629 AU				
				superior conj	10409 Sep 08 11:15	26° Mp 03'55	0°46'13
superior conj	10408 Sep 24 03:06	11° ഫ 35'33	1°07'24	minimum elong	10409 Sep 08 09:19	25° m 53'25	0°45'46

evening rise	10409 Sep 10 06:31 10409 Sep 15 08:02	0° ರ 11° ರ 01'09		minimum elong evening rise	10410 Aug 23 13:31 10410 Aug 30 18:58	10° Mp 08'34 25° Mp 34'28	0°19'56
C	10409 Sep 24 22:12	0° M			10410 Sep 01 21:42	0∘ ⊽	
desc. node	10409 Oct 07 12:12	17° M 58'05		evening max el	10410 Sep 20 16:28	29° ≏ 47'09	22°02'22
evening max el	10409 Oct 09 03:48	19°M38'43 26°M24'14	23°42'04	J J-	10410 Sep 20 21:44	0°M	
retrograde evening set	10409 Oct 22 16:43 10409 Oct 27 06:13	26°11624°14 25°11638'53		desc. node retrograde	10410 Sep 24 09:27 10410 Oct 03 08:44	2°M55'12 6°M05'51	
min. Earth dist.	10409 Nov 02 14:03	22°M36'47	0.55674 AU	evening set	10410 Oct 05 08:44 10410 Oct 06 11:04	5°M44'27	
inferior conj	10409 Nov 04 13:29		-5°44'55	inferior conj	10410 Oct 15 09:48	1°M45'26	-5°21'21
minimum elong	10409 Nov 04 14:10	21°M25'07	5°44'33	minimum elong	10410 Oct 15 02:33		5°19'59
morning rise	10409 Nov 13 00:00	17°M31'42		min. Earth dist.	10410 Oct 14 21:12	2°M03'06	0.54740 AU
direct	10409 Nov 15 19:10	17°M12'12			10410 Oct 18 15:35	30° ŖΩ	
morning max el	10409 Nov 26 07:00	22°M10'08	20°11'47	morning rise	10410 Oct 23 19:29	27° ≏ 58'21	
asc. node	10409 Nov 30 16:21	27°M09'31		direct	10410 Oct 27 06:38	27° △ 31'52	
	10409 Dec 02 17:03	0° ∡¹			10410 Nov 04 04:42	0°M	21212121
morning set	10409 Dec 14 14:21	21° х ⁷ 41'11		morning max el	10410 Nov 08 07:31	3°M13'13	21°42'04
	10409 Dec 18 15:28	0°ಕ		asc. node	10410 Nov 17 13:20 10410 Nov 25 20:45	14°M.55'18 0°⊀	
superior conj	10409 Dec 22 05:36	7° る 18'21	1°23'59	morning set	10410 Nov 29 00:06	0 x . 6° x 27'24	
minimum elong	10409 Dec 22 08:08	7°る31'03	1°24'14	morning set	10410 1101 27 00.00	0 × 2/24	
max. Earth dist.	10409 Dec 27 20:36	18° る 19'15	1.36705 AU	superior conj	10410 Dec 06 04:23	21° × 737'20	1°35'21
evening rise	10409 Dec 31 15:38	25° පි 21'56		minimum elong	10410 Dec 06 05:49	21° ∡ ⁴44'50	1°35'46
desc. node	10410 Jan 03 10:48	0° ≈ 21'33		Č	10410 Dec 10 06:10	ರ°0	
	10410 Jan 03 05:54	0° ≈ ≈		max. Earth dist.	10410 Dec 10 08:46	0°₹13'04	1.34788 AU
	10410 Jan 22 10:19	0° ∀		evening rise	10410 Dec 14 14:28	8° る 31'40	
evening max el	10410 Feb 05 05:22	16°) 34'37	25°47'58	desc. node	10410 Dec 21 07:47	20° る 46'47	
retrograde	10410 Feb 17 16:30	23°) (42′55			10410 Dec 26 20:08	0° ≈	
evening set	10410 Feb 23 17:12	21°) 14'45			10411 Jan 18 11:21	0°) {	26045145
asc. node min. Earth dist.	10410 Feb 26 15:03 10410 Feb 28 00:06	18° ¥ 18'08 16° ¥ 38'09	0.67288 AU	evening max el retrograde	10411 Jan 18 18:50 10411 Jan 31 22:03	0° ¥ 18'09 7° ¥ 38'39	26°45'45
inferior conj	10410 Mar 01 11:19	14° H 46'57	0°54'40	evening set	10411 Jan 31 22:03 10411 Feb 07 09:52	5° ∺ 04'53	
minimum elong	10410 Mar 01 10:00	14° X 51'05	0°54'20	min. Earth dist.	10411 Feb 11 10:51	1° ¥ 02'37	0.66059 AU
morning rise	10410 Mar 07 03:22	8° ¥ 57'01			10411 Feb 12 08:20	30°R≈	
direct	10410 Mar 10 10:49	7° ¥ 54'19		inferior conj	10411 Feb 13 09:57	28° ≈ 44'30	-0°01'55
morning max el	10410 Mar 17 05:43	11°) 35′44	18°55'30	minimum elong	10411 Feb 13 09:59	28° ≈ 44'23	0°01'36
	10410 Mar 30 21:06	0° Y		transit middle	10411 Feb 13 09:59	28° ≈ 44'23	0°01'36
greatest brilliancy	10410 Mar 31 04:41	0° Y ′28'54	-0.8m	transit begin	10411 Feb 13 07:04	28° ≈ 52'59	
desc. node	10410 Apr 01 11:20	2°Υ26'13		transit end	10411 Feb 13 12:55	28°≈35'47	
morning set	10410 Apr 08 19:08	13° Y 46′21		asc. node	10411 Feb 13 12:16	28°≈37'41	
max. Earth dist.	10410 Apr 19 05:13 10410 Apr 23 06:01	0°8 6°818¦30	1.45401 AU	morning rise direct	10411 Feb 19 11:14 10411 Feb 22 08:28	23°≈05'45 22°≈19'49	
max. Earth dist.	10410 Apr 23 00.01	0 01039	1.43401 AO	morning max el	10411 Feb 28 19:11	25°≈45'20	18°15'39
superior conj	10410 Apr 25 06:17	9° 8 28'11	-2°07'22	morning max ci	10411 Mar 04 11:27	0° ∀	10 13 37
minimum elong	10410 Apr 25 00:43	9° 8 06'18		desc. node	10411 Mar 19 08:08	22°) 43'22	
	10410 May 08 03:26	Π°		morning set	10411 Mar 20 03:01	23° ¥ 59′10	
evening rise	10410 May 10 07:01	3° Ⅲ 28′50			10411 Mar 23 21:06	0° Y	
asc. node	10410 May 25 13:13	27° Ⅲ 28'30					
	10410 May 27 10:28	0.20		superior conj	10411 Apr 04 12:25	18° Y ′23'51	
evening max el	10410 May 30 12:28	3°532'20	18°30'39	minimum elong	10411 Apr 04 02:53	17° Y 46'33	1°41'39
retrograde evening set	10410 Jun 05 23:50 10410 Jun 09 03:33	7° © 02'41 6° © 06'43		max. Earth dist.	10411 Apr 06 01:39 10411 Apr 11 22:40	20° Y 49'34 0° と	1.45644 AU
inferior conj	10410 Jun 14 21:02	0°933'43	3°05'59	evening rise	10411 Apr 11 22.40 10411 Apr 20 13:10	13° 8 25'41	
minimum elong	10410 Jun 14 22:37	0°528'57	3°05'16	evening rise	10411 May 01 05:16	0°Ⅱ	
	10410 Jun 15 08:15	30°R Ⅱ		greatest brilliancy	10411 May 01 16:50	0° Ⅱ 44'09	-0.8m
min. Earth dist.	10410 Jun 17 00:05	28° Ⅲ 01'14	0.64970 AU	asc. node	10411 May 12 10:21	15° Ⅲ 36′21	
morning rise	10410 Jun 20 16:45	24° Ⅱ 14'46		evening max el	10411 May 13 21:46	17° Ⅱ 11′20	19°09'47
direct	10410 Jun 27 06:28	21° Ⅲ 32′06		retrograde	10411 May 20 20:07	21° Ⅲ 04′09	
desc. node	10410 Jun 28 11:25	21° I I37'02		evening set	10411 May 24 08:02	19° ∏ 52'59	
morning max el	10410 Jul 10 18:30	29° Ⅱ 28'18	27°13'30	inferior conj	10411 May 29 19:06	14° Ⅱ 04'45	3°17'35
	10410 Jul 11 06:55	0°©		minimum elong	10411 May 29 19:29	14° Ⅱ 03'28	3°17'05
morning sat	10410 Aug 02 05:47 10410 Aug 15 06:21	0°Ω 23°Ω14'44		min. Earth dist. morning rise	10411 May 31 07:05 10411 Jun 04 06:27	12° Ⅱ 08'42 7° Ⅱ 43'52	0.66560 AU
morning set	10410 Aug 13 06:21 10410 Aug 18 16:06	0° m)		direct	10411 Jun 04 06:27 10411 Jun 10 11:52	7°Щ43′52 5°Щ00′54	
max. Earth dist.	10410 Aug 19 18:01	2°M)11'51	1.33456 AU	desc. node	10411 Jun 15 08:28	6° П 21'35	
asc. node	10410 Aug 21 12:55	5° m 53'23		morning max el	10411 Jun 23 05:17	12° Ⅲ 36'58	26°08'58
		-		٥	10411 Jul 07 04:48	0ಂತಾ	
superior conj	10410 Aug 23 14:32	10° m 13'54	0°20'20		10411 Jul 25 22:14	0 $^{\circ}$ Ω	

morning set	10411 Jul 29 05:52	6° Ω 02'27			10412 Jun 08 07:50	Π $^{\circ}0$	
max. Earth dist.	10411 Aug 02 02:50	13° Ω 23'35	1.35109 AU		10412 Jun 29 17:46	0 \circ	
				morning set	10412 Jul 10 12:14	18° © 01'15	
superior conj	10411 Aug 07 10:27	23° Ω 59'12	-0°09'32	max. Earth dist.	10412 Jul 14 02:28	24° © 28'43	1.37166 AU
minimum elong	10411 Aug 07 11:01	24° Ω 02'06	0°09'44		10412 Jul 17 01:47	$0^{\circ}\Omega$	
behind sun begin	10411 Aug 07 06:12	23° ん 37′29					
behind sun end	10411 Aug 07 15:51	24° Ω 26'45		superior conj	10412 Jul 20 19:58	7° Ω 12'33	-0°42'05
asc. node	10411 Aug 08 09:47	25° Ω 58'40		minimum elong	10412 Jul 20 22:41	7° Ω 25'49	0°42'00
	10411 Aug 10 08:30	0° m)		asc. node	10412 Jul 25 06:40	16° Ω 00'49	
evening rise	10411 Aug 15 03:20	9° m ,57′23		evening rise	10412 Jul 29 06:48	24° Ω 03'52	
	10411 Aug 25 17:47	0∘ ত			10412 Aug 01 06:38	0° m y	
evening max el	10411 Sep 02 15:23	10° ≏ 22'04	20°34'20	evening max el	10412 Aug 15 04:13	21° Mp 43'03	19°25'46
desc. node	10411 Sep 11 06:43	15° ≏ 38'55		retrograde	10412 Aug 24 16:38	26° Mp 26'28	
retrograde	10411 Sep 13 20:45	15° ≏ 56'13		evening set	10412 Aug 26 12:46	26° m 16'40	
evening set	10411 Sep 15 23:11	15° ≏ 45'20		desc. node	10412 Aug 28 03:58	25° m 52'28	
inferior conj	10411 Sep 25 02:16	11° ≏ 48'55	-4°02'16	inferior conj	10412 Sep 04 05:24	22° m 10'05	-2°11'10
minimum elong	10411 Sep 24 16:31	12° ₽ 03'00	3°59'15	minimum elong	10412 Sep 03 23:33	22° m 19'32	
min. Earth dist.	10411 Sep 26 05:39	11° ഫ 09'19	0.54718 AU	min. Earth dist.	10412 Sep 06 17:25	20° m 33'23	0.55645 AU
morning rise	10411 Oct 03 09:30	7° £ 48'17		morning rise	10412 Sep 12 07:48	17° mp 38'13	
direct	10411 Oct 07 14:53	7° ≙ 09'58		direct	10412 Sep 17 08:57	16° m) 40'36	
morning max el	10411 Oct 20 21:51	13° ≙ 35'41	23°26'59	morning max el	10412 Oct 01 09:17	23° m 43'46	25°12'18
	10411 Nov 02 10:28	0° M		8	10412 Oct 07 01:56	0∘ ⊽	
asc. node	10411 Nov 04 10:16	3°M25'05		asc. node	10412 Oct 21 07:08	22° ≏ 28'08	
morning set	10411 Nov 13 11:39	21°M15'33		450. 11040	10412 Oct 25 02:27	0°M	
morning sec	10411 Nov 17 12:56	0° ⊼ ¹		morning set	10412 Oct 27 23:17	6°M00'53	
	101111101 17 12.50	· ^		morning sec	10112 000 27 23.17	0 1100055	
superior conj	10411 Nov 20 09:43	6° ∡ 12'54	1°39'50	superior conj	10412 Nov 03 19:09	20°M57'43	1°38'01
minimum elong	10411 Nov 20 09:56	6° х 14′04	1°40'17	minimum elong	10412 Nov 03 18:16	20°M52'52	1°38'21
max. Earth dist.	10411 Nov 23 04:32	12° ₹ 1101	1.33256 AU	max. Earth dist.	10412 Nov 05 07:45	24°M18'35	1.32187 AU
evening rise	10411 Nov 28 02:05	22° × 14'00	1.55250710	max. Earth dist.	10412 Nov 07 22:50	0°×7	1.52107 110
evening rise	10411 Dec 02 02:22	0°궁		evening rise	10412 Nov 10 23:16	6° ₹ ⁷ 20'44	
desc. node	10411 Dec 08 04:48	10°る56'02		evening rise	10412 Nov 23 15:38	0°る	
desc. node	10411 Dec 20 14:42	0°≈		desc. node	10412 Nov 24 01:53	0° る 42'25	
evening max el	10411 Dec 20 14:42 10412 Jan 01 07:37	13° ≈ 45'09	27°22'00	evening max el	10412 Nov 24 01:33	26°る44'06	27°29'57
retrograde	10412 Jan 14 21:29	21°≈08'19	27 22 00	evening max er	10412 Dec 17 14:20	20 ○ ++00	21 2) 31
evening set	10412 Jan 21 17:50	18°≈35'27		retrograde	10412 Dec 27 13:50	4°≈02'32	
min. Earth dist.	10412 Jan 25 13:57	15°≈05'33	0.64473 AU	evening set	10412 Dec 27 13:30 10413 Jan 03 14:17	1°≈38'57	
inferior conj	10412 Jan 28 00:36	12°≈28'51		evening set	10413 Jan 05 18:12	30°Rる	
minimum elong	10412 Jan 28 02:40	12°≈23'19		min. Earth dist.	10413 Jan 07 07:36	• -	0.62592 AU
asc. node	10412 Jan 31 09:28	9°≈08'27	1 03 49	inferior conj	10413 Jan 10 04:23	25° る 52'55	
morning rise	10412 Feb 03 13:18	7°≈03'45		minimum elong	10413 Jan 10 04:29	25° ප් 41'53	
direct	10412 Feb 06 02:02	6°≈30'53		morning rise	10413 Jan 17 06:02	20°る44'19	2 1030
morning max el	10412 Feb 12 12:08	9° ≈ 51'35	17°52'43	asc. node	10413 Jan 17 06:37	20° ට 43'49	
morning max cr	10412 Feb 26 07:29	0° ∺	17 32 43	direct	10413 Jan 19 12:34	20° る 20'38	
morning set	10412 Feb 29 15:47	5° ∺ 36'43		morning max el	10413 Jan 26 05:31	20 පි 20 38	17°47'21
desc. node	10412 Mar 05 04:53	13° ¥ 12′29		morning max ci	10413 Jan 31 05:24	0°≈	1/ 4/21
desc. node	10412 Mai 05 04.55	13 11229		morning set	10413 Jan 31 03.24 10413 Feb 11 04:31	0 ∞ 18°≈23'03	
superior conj	10412 Mar 14 04:59	27° ¥ 54'23	1002126	morning set	10413 Feb 17 04.31 10413 Feb 17 20:02	1° ≈ 23 03	
minimum elong	10412 Mar 13 22:01	27 H 34 23		desc. node	10413 Feb 17 20.02 10413 Feb 20 01:39	3°) 49'33	
minimum ciong	10412 Mar 15 12:24	27 γ (2027	1 0237	desc. flode	104131100 20 01.39	3 7(4933	
max. Earth dist.	10412 Mar 18 20:50	5° Υ 18'55	1.45141 AU	superior conj	10413 Feb 22 20:16	8°) 30'42	0.50,48
evening rise	10412 Mar 30 03:14	22° Υ 49'11	1.43141 AU	minimum elong	10413 Feb 22 20:10 10413 Feb 22 18:12	8° ∺ 22'05	
evening rise		0° 8		max. Earth dist.		8 X 2203 19° X 33'10	1.43960 AU
	10412 Apr 03 20:04		0.6	max. Earm dist.	10413 Mar 01 13:45	19 χ 33 10	1.43900 AU
greatest brilliancy	10412 Apr 14 03:17	15° 8 23'37 0° Ⅱ	-0.6m		10413 Mar 08 04:16	0° γ 2° Υ 18'00	
	10412 Apr 25 05:36		20004150	evening rise	10413 Mar 09 15:52	0°8	
evening max el	10412 Apr 26 01:59	0° Ⅱ 53'12	20-04-50		10413 Mar 28 08:44	_	21912/57
asc. node	10412 Apr 28 07:30	2° Ⅱ 55'24		evening max el	10413 Apr 09 00:37	14° 8 36'16	21-12-36
retrograde	10412 May 03 18:36	5° Ⅱ 19'04		asc. node	10413 Apr 15 04:41	19° 8 11'06	
evening set	10412 May 07 15:28	3°II52'18		retrograde	10413 Apr 17 17:03	19° 8 42'08	
	10412 May 11 08:08	30°R8	201.512.4	evening set	10413 Apr 21 23:55	17° 8 59'42	2002/04
inferior conj	10412 May 12 23:07		3°15'34	inferior conj	10413 Apr 27 06:40	11° 8 46'19	3°02'04
minimum elong	10412 May 12 22:25	27° 8 52'56	3°15'07	minimum elong	10413 Apr 27 05:06	11° 8 51'44	3°01'32
min. Earth dist.	10412 May 13 20:42	26° 8 37'24	0.67707 AU	min. Earth dist.	10413 Apr 27 14:45	11° 8 18'14	0.68399 AU
morning rise	10412 May 18 05:04	21° 8 31'26		morning rise	10413 May 02 10:04	5° 8 31'11	
direct	10412 May 23 23:09	18° 8 57'44		direct	10413 May 07 15:10	3° 8 13'57	2201
desc. node	10412 Jun 01 05:26	22° 8 48'55	0.40.46157	morning max el	10413 May 18 00:39	9° 8 25'02	23°17'25
morning max el	10412 Jun 04 15:00	25° 8 57'40	24~46'57	desc. node	10413 May 19 02:21	10° 8 31'33	

	10413 Jun 03 05:30	0°Щ		desc. node	10414 May 05 23:12	29° Y ′09'26	
morning set	10413 Jun 21 20:09	28° ∏ 56'24		dese. Hode	10414 May 06 15:22	0° 8	
morning sec	10413 Jun 22 11:17	0°95			10414 May 27 13:33	0°II	
max. Earth dist.	10413 Jun 25 23:04	5° © 58'09	1.39445 AU	morning set	10414 Jun 02 01:44	8° ∏ 39'34	
				max. Earth dist.	10414 Jun 07 23:41	18° Ⅱ 17'51	1.41674 AU
superior conj	10413 Jul 03 15:09	19° 5 43'38	-1°15'09		10414 Jun 14 20:41	0°©	
minimum elong	10413 Jul 03 20:10	20°506'56	1°14'53				
-	10413 Jul 09 01:46	$0^{\circ}\Omega$		superior conj	10414 Jun 15 15:33	1° 5 22'27	-1°45'05
asc. node	10413 Jul 12 03:33	5° Ω 55'12		minimum elong	10414 Jun 15 21:56	1° 9 50'30	1°44'56
evening rise	10413 Jul 13 02:22	7° Ω 45'15		evening rise	10414 Jun 26 10:25	20° © 52'43	
	10413 Jul 25 22:37	0° ™		asc. node	10414 Jun 29 00:30	25° © 37'49	
evening max el	10413 Jul 29 04:57	3° Mp 48'33	18°38'26		10414 Jul 01 10:27	0 $^{\circ}\Omega$	
retrograde	10413 Aug 06 06:01	7° m 49'48		evening max el	10414 Jul 12 13:42	16° Ω 30′12	18°11'40
evening set	10413 Aug 08 06:13	7° m 35'37		retrograde	10414 Jul 19 14:34	20° Ω 03'59	
desc. node	10413 Aug 15 01:12	4° Mp 00′42		evening set	10414 Jul 21 22:01	19° Ω 41'31	
inferior conj	10413 Aug 16 04:23	3° Mp 10'06		inferior conj	10414 Jul 29 01:05	14° Ω 55'10	1°08'24
minimum elong	10413 Aug 16 03:33	3°M)11'41	0°20'52	minimum elong	10414 Jul 29 03:10	14° Ω 50'34	1°07'18
min. Earth dist.	10413 Aug 19 09:50	0° mp 45'06	0.57334 AU	min. Earth dist.	10414 Aug 01 09:11	11° Ω 59'52	0.59472 AU
	10413 Aug 20 11:39	30°RΩ		desc. node	10414 Aug 01 22:25	11° Ω 32'39	
morning rise	10413 Aug 23 21:25	28° Ω 00'59		morning rise	10414 Aug 05 05:09	9° Ω 13'35	
direct	10413 Aug 29 17:04	26° Ω 37'00		direct	10414 Aug 11 14:27	7° Ω 20'03	
	10413 Sep 08 01:34	0° m/y		morning max el	10414 Aug 25 23:00	15° Ω 10′04	27°37'57
morning max el	10413 Sep 13 00:34	4° m 07'39	26°40'43		10414 Sep 06 23:41	0° m 0° 0	
1	10413 Oct 01 19:20	0° ⊽		1	10414 Sep 24 05:08	0° ⊡	
asc. node	10413 Oct 08 03:58	11° Ω 55'24		asc. node	10414 Sep 25 00:47	1° Ω 40'10	
morning set	10413 Oct 12 09:20	20° Ω 38'42		morning set	10414 Sep 26 16:07	5° Ω 04'23	1 21470 ATT
	10413 Oct 16 16:27	0°M₊		max. Earth dist.	10414 Oct 03 01:30	18° ≏ 56'59	1.31479 AU
superior conj	10413 Oct 19 06:36	5°M45'12	1°30'24	superior conj	10414 Oct 03 18:12	20° ≏ 29'50	1°17'18
minimum elong	10413 Oct 19 04:53	5°M35'39	1°30'29	minimum elong	10414 Oct 03 16:02	20° ⊆ 17'42	
max. Earth dist.	10413 Oct 19 15:57	6°M37'12	1.31594 AU	minimum ciong	10414 Oct 08 01:05	0°M	1 17 00
evening rise	10413 Oct 26 03:14	20°M44'16	1.5107.110	evening rise	10414 Oct 10 11:41	5°M18'06	
<i>8</i>	10413 Oct 30 15:59	0° ⊼ ¹		<i>8</i> 21	10414 Oct 23 08:59	0° ⊼	
desc. node	10413 Nov 10 23:01	19° ∡ 56'44		desc. node	10414 Oct 28 20:12	8° ∡ ¹26′05	
	10413 Nov 17 23:42	ರ°ರ		evening max el	10414 Nov 07 22:05	20° ∡ ¹28'41	26°05'32
evening max el	10413 Nov 25 23:59	9° ප 02'02	27°04'44	retrograde	10414 Nov 21 19:55	27° ∡ °32′03	
retrograde	10413 Dec 09 21:44	16° る 12'38		evening set	10414 Nov 28 05:32	25° ₹ 54'30	
evening set	10413 Dec 16 19:41	14° る 07'37		min. Earth dist.	10414 Dec 02 10:57	23° х 19′33	0.58417 AU
min. Earth dist.	10413 Dec 20 14:33	11° පි 26'02	0.60518 AU	inferior conj	10414 Dec 05 13:42	21° ₹ 03'27	-4°44'22
inferior conj	10413 Dec 23 17:56	8° る 47'56	-3°34'29	minimum elong	10414 Dec 05 21:36	20° х 49′03	4°41'59
minimum elong	10413 Dec 24 00:59	8°₹33'06	3°31'36	morning rise	10414 Dec 13 16:09	16° ∡ ³37'17	
morning rise	10413 Dec 31 08:53	3° る 59'11		direct	10414 Dec 15 20:52	16° ∡ ¹21'23	
direct	10414 Jan 02 12:21	3° る 41′02		asc. node	10414 Dec 22 00:47	18° ∡ ³35′18	
asc. node	10414 Jan 04 03:42	3° る 52'04		morning max el	10414 Dec 24 03:52	20° ∡ °23'53	18°34'12
morning max el	10414 Jan 09 19:59	7° る 20'29	18°00'40		10414 Dec 31 09:30	0°る	
	10414 Jan 24 09:03	0° ≈		morning set	10415 Jan 09 05:04	16° පි 06'33	
morning set	10414 Jan 25 10:45	1° ≈ 58'37			10415 Jan 16 10:35	0° ≈	
superior conj	10414 Feb 04 12:29	20°≈17'52	0°18'24	superior conj	10415 Jan 18 01:56	3° ≈ 04'26	0°50'19
minimum elong	10414 Feb 04 12:29 10414 Feb 04 13:59	20 ≈1732 20°≈24'29	0°18'30	minimum elong	10415 Jan 18 04:56	3°≈18'20	0°50'19
desc. node	10414 Feb 04 13:39 10414 Feb 06 22:28	20°≈24°29 24°≈31'09	0 10 30	desc. node	10415 Jan 18 04:56 10415 Jan 24 19:19	3°≈18′20 15°≈13′06	0 30 17
desc. Hode	10414 Feb 10 03:25	0°)		max. Earth dist.	10415 Jan 25 11:16	16°≈22'39	1.40126 AU
max. Earth dist.	10414 Feb 12 02:53	3°) 18'48	1.42223 AU	evening rise	10415 Jan 29 15:18	23°≈28'35	1.40120 AC
evening rise	10414 Feb 17 17:26	12° ¥ 26'15	1.42225710	evening rise	10415 Feb 02 14:48	0° ∀	
e vennig rise	10414 Mar 01 04:07	0°Υ			10415 Feb 23 01:37	0°Υ	
evening max el	10414 Mar 22 18:26	28° Y ′21′25	22°29'51	evening max el	10415 Mar 05 08:57	12° Υ ′08'24	23°50'16
<i>3</i>	10414 Mar 24 11:44	0°8		retrograde	10415 Mar 16 07:52	18° Y 35'35	
retrograde	10414 Apr 01 13:55	4° 8 09'34		asc. node	10415 Mar 19 23:07	17° Ƴ 33'16	
asc. node	10414 Apr 02 01:53	4° 8 08'21		evening set	10415 Mar 21 13:31	16° Y ′24'01	
evening set	10414 Apr 06 07:47	2° 8 11'55		min. Earth dist.	10415 Mar 26 07:37	10° Y ′52'32	0.68439 AU
	10414 Apr 08 11:42	30° ₹Ƴ		inferior conj	10415 Mar 27 00:18	9° Y 55'41	2°05'25
inferior conj	10414 Apr 11 15:42	25° Y '49'23	2°38'28	minimum elong	10415 Mar 26 22:07	10° Y °03′07	2°04'43
minimum elong	10414 Apr 11 13:37	25° Y 56'36	2°37'49	morning rise	10415 Apr 01 06:46	3° Y 52'28	
min. Earth dist.	10414 Apr 11 11:06	26° Y ′05′21	0.68640 AU	direct	10415 Apr 05 08:59	2° Y 17'54	
morning rise	10414 Apr 16 19:19	19° Y 39'39		morning max el	10415 Apr 13 08:42	6° Ƴ 49'59	20°31'03
direct	10414 Apr 21 10:50	17° Y ′43′04		desc. node	10415 Apr 22 20:03	18° Y 27′01	
morning max el	10414 Apr 30 13:30	23° Y 01'44	21°49'45		10415 Apr 30 21:02	0°8	

desc. node	10417 Mar 26 13:38	28° ∺ 21'39		asc. node	10418 Feb 07 14:48	20°≈21'25	
	10417 Mar 27 14:44	0°Υ ••••••••••••••••••••••••••••••••••••		morning rise	10418 Feb 12 10:09	16°≈23'45	
morning set	10417 Mar 30 23:10	5°Υ16'04		direct	10418 Feb 15 03:37	15°≈43'42	
max. Earth dist.	10417 Apr 15 14:29	29° Y 46'33	1.45592 AU	morning max el	10418 Feb 21 13:02	19° ≈ 05'51	18°03'45
	10417 Apr 15 17:55	0°8			10418 Mar 01 19:32	0°) {	
				morning set	10418 Mar 11 19:39	16°) €06'23	
superior conj	10417 Apr 16 02:58	0° 8 35'22		desc. node	10418 Mar 13 10:24	18°) (44′32	
minimum elong	10417 Apr 15 18:54	0° 8 03'49	1°58'45		10418 Mar 20 09:25	0° Ƴ	
evening rise	10417 May 01 16:36	25° 8 08'47					
	10417 May 04 17:39	0°Щ		superior conj	10418 Mar 26 11:17	9° Ƴ 39'48	
greatest brilliancy	10417 May 09 19:40	8° Ⅱ 04'39	-0.8m	minimum elong	10418 Mar 26 02:13	9° Y 03′59	
asc. node	10417 May 19 15:41	22° ∏ 36'35		max. Earth dist.	10418 Mar 29 10:36		1.45520 AU
evening max el	10417 May 23 03:57	26° ∏ 40'42	18°45'19		10418 Apr 08 12:05	0° 8	
	10417 May 27 22:35	$0 {\circ} \mathbf{e}$		evening rise	10418 Apr 11 14:27	4° 8 47'32	
retrograde	10417 May 29 18:58	0° © 18'55		greatest brilliancy	10418 Apr 24 17:04	24° 8 49'20	-0.7m
	10417 May 31 14:33	30°Ŗ Ⅱ			10418 Apr 28 06:10	Π °0	
evening set	10417 Jun 02 02:08	29° Ⅱ 16'35		evening max el	10418 May 06 11:18	10° Ⅱ 21'38	19°31'26
inferior conj	10417 Jun 07 16:30	23° Ⅲ 37'13	3°12'42	asc. node	10418 May 06 12:50	10° Ⅲ 25′28	
minimum elong	10417 Jun 07 17:35	23° Ⅲ 33'51	3°12'07	retrograde	10418 May 13 16:24	14° Ⅱ 26′56	
min. Earth dist.	10417 Jun 09 13:13	21° Ⅱ 18′56	0.65699 AU	evening set	10418 May 17 08:07	13° Ⅱ 08'59	
morning rise	10417 Jun 13 08:19	17° Ⅱ 17'04		inferior conj	10418 May 22 17:24	7° Ⅱ 14'50	3°18'12
direct	10417 Jun 19 19:09	14° Ⅲ 32'40		minimum elong	10418 May 22 17:18	7° Ⅱ 15'10	3°17'45
desc. node	10417 Jun 22 13:48	14° ∏ 59′02		min. Earth dist.	10418 May 23 23:06	5° Ⅱ 36'45	0.67106 AU
morning max el	10417 Jul 02 23:52	22° II 22'03	26°48'48	morning rise	10418 May 28 02:07	0° Ⅱ 54'40	
	10417 Jul 09 16:36	0 \circ \odot			10418 May 29 04:57	30° ₹ 8	
	10417 Jul 29 20:31	$\mathfrak{O}^{\circ} \mathfrak{O}$		direct	10418 Jun 03 03:04	28° 8 14'43	
morning set	10417 Aug 07 18:56	16° Ω 07'13			10418 Jun 08 15:04	Π° 0	
max. Earth dist.	10417 Aug 11 23:37	24° Ω 19'15	1.34104 AU	desc. node	10418 Jun 09 10:48	0° Ⅱ 30'54	
	10417 Aug 14 18:43	0° m)		morning max el	10418 Jun 15 10:06	5° Ⅱ 36′24	25°35'41
asc. node	10417 Aug 15 15:17	1° Mp 46'11		-	10418 Jul 04 05:15	0°ಅ	
	Č	•		morning set	10418 Jul 21 11:42	28° © 35'25	
superior conj	10417 Aug 16 11:04	3° m 29'02	0°08'08	C	10418 Jul 22 06:14	$0^{\circ}\Omega$	
minimum elong	10417 Aug 16 10:39	3° m/26'51	0°07'47	max. Earth dist.	10418 Jul 25 04:14	5° Ω 26′04	1.35949 AU
behind sun begin	10417 Aug 16 05:35	3°1000'30					
behind sun end	10417 Aug 16 15:42	3°m)53'14		superior conj	10418 Jul 31 02:58	17° Ω 02'00	-0°23'05
evening rise	10417 Aug 23 20:08	19° m 03'24		minimum elong	10418 Jul 31 04:24	17° Ω 09'07	0°23'11
<i>y</i>	10417 Aug 29 05:38	0∘ <u>⊽</u>		asc. node	10418 Aug 02 12:08	21° Ω 50'47	
evening max el	10417 Sep 12 15:13	21° ჲ 33'03	21°22'52		10418 Aug 06 11:36	0° m)	
desc. node	10417 Sep 18 11:55	25° Ω 57'57		evening rise	10418 Aug 08 02:44	3° m/20'29	
retrograde	10417 Sep 24 17:52	27° Ω 33'42			10418 Aug 23 14:25	0∘ ⊽	
evening set	10417 Sep 27 07:58	27° ≙ 18'19		evening max el	10418 Aug 25 20:00	2° ჲ 26'39	20°02'32
inferior conj	10417 Oct 06 10:32	23° ჲ 22'26	-4°53'43	retrograde	10418 Sep 05 07:36	7° ≏ 38'56	
minimum elong	10417 Oct 06 01:15	23° Ω 35'27		desc. node	10418 Sep 05 09:09	7° ₽ 38'55	
min. Earth dist.	10417 Oct 06 15:17	23° Ω 15'46	0.54621 AU	evening set	10418 Sep 07 05:45	7° ₽ 29'12	
morning rise	10417 Oct 14 19:17	19° Ω 32'05		inferior conj	10418 Sep 16 05:53	3° ₽ 29'39	-3°16'59
direct	10417 Oct 18 14:17	19° Ω 01'02		minimum elong	10418 Sep 15 21:17	3° ≏ 42'33	3°14'02
morning max el	10417 Oct 31 04:59	25° Ω 01'43	22°25'28	min. Earth dist.	10418 Sep 18 00:32	2° £ 25'39	0.55008 AU
	10417 Nov 04 18:25	0°M₊			10418 Sep 22 15:00	30°R, M)	
asc. node	10417 Nov 11 15:45	10°M02'26		morning rise	10418 Sep 24 11:36	29° m) 17'47	
morning set	10417 Nov 22 02:03	0° ∡ *04'54		direct	10418 Sep 29 01:26	28° m/32'21	
morning sec	10417 Nov 22 01:07	0° ≯			10418 Oct 05 07:44	0∘ ⊽	
	101171101 22 01.07	• ••		morning max el	10418 Oct 12 17:00	5° ≏ 14'12	24°12'47
superior conj	10417 Nov 29 03:10	15° ∡ *08'01	1°38'03	asc. node	10418 Oct 29 12:38	28° ♀ 48'03	- 1 - 1 - 1
minimum elong	10417 Nov 29 04:05	15° ∡ 12'52	1°38'30		10418 Oct 30 04:14	0° M	
max. Earth dist.	10417 Dec 02 16:45	22° × ^{35'53}	1.34090 AU	morning set	10418 Nov 06 13:52	14°ML53'17	
man. Bartin diot.	10417 Dec 06 08:58	0°ਰ	1.5 10 0 110	morning sec	10.1101.101.00 10.102	11 11005 17	
evening rise	10417 Dec 07 05:01	1°る38'04		superior conj	10418 Nov 13 10:32	29°M48'53	1°39'48
desc. node	10417 Dec 15 10:09	16°පි42'46		minimum elong	10418 Nov 13 10:15	29°M47'24	1°40'12
2000. 11000	10417 Dec 23 14:37	0°≈		Ciong	10418 Nov 13 12:34	2) 1104/24 0° √ 1	
evening max el	10417 Dec 23 14:37	23° ≈ 24'25	27°04'21	max. Earth dist.	10418 Nov 15 16:15	4° ∡ 739'41	1.32747 AU
	10418 Jan 20 11:12	0°) €	·	evening rise	10418 Nov 20 21:06	15° × 32'22	
retrograde	10418 Jan 24 09:39	0°) 46′25			10418 Nov 28 10:27	0°る	
	10418 Jan 28 02:19	30°R≈		desc. node	10418 Dec 02 07:11	6° る 43'55	
evening set	10418 Jan 31 01:25	28°≈12'30		acce. node	10418 Dec 18 08:42	0°≈	
min. Earth dist.	10418 Feb 04 00:19	24°≈24'08	0.65423 AU	evening max el	10418 Dec 24 13:30	6° ≈ 41'57	27°29'08
inferior conj				•			_, _, 00
	10418 Feb 06 04·17	21° ≈≈ 57'17	-U*28'34	retrograde	10419 Jan 07/05:55	[4°≈≈03°01	
minimum elong	10418 Feb 06 04:17 10418 Feb 06 05:06	21°≈57'17 21°≈54'58		retrograde evening set	10419 Jan 07 05:55 10419 Jan 14 04:52	14°≈03'01 11°≈32'58	

min. Earth dist.	10419 Jan 17 23:29	8°≈15'57	0.63709 AU	inferior conj	10420 Jan 03 12:51	18° る 47'31	-2°51'08
inferior conj	10419 Jan 20 14:43	5°≈34'40		minimum elong	10420 Jan 03 18:34	18°る4'31	
minimum elong	10419 Jan 20 17:49	5°≈26'44		morning rise	10420 Jan 10 20:17	18 3 3432	2 48 30
asc. node	10419 Jan 25 11:58	1°≈15'11	1 33 10	asc. node	10420 Jan 12 09:05	13°る7'22	
morning rise	10419 Jan 27 08:47	0°≈16'14		direct	10420 Jan 13 01:04	13° る 26'30	
morning risc	10419 Jan 28 04:45	30°Rる		morning max el	10420 Jan 19 23:14	15 3 2030	17°50'42
direct	10419 Jan 29 18:42	29°る47'37		morning max ci	10420 Jan 29 05:14	0°≈	17 30 42
direct	10419 Jan 31 08:29	29 ⊙ 47 37		morning set	10420 Feb 04 16:21	0 ∞ 11°≈25'48	
morning max el	10419 Feb 05 06:36	3°≈08'53	17°48'17	desc. node	10420 Feb 15 03:57	29°≈57'37	
morning set	10419 Feb 21 19:28	28°≈16'25	17 40 17	dese. Hode	10420 Feb 15 04:30	0° ∺	
morning set	10419 Feb 22 19:40	0° ∺			10420160 13 04.30	0 X	
desc. node	10419 Feb 28 07:10	9°) 18′04		superior conj	10420 Feb 15 14:52	0°) 44'24	-0°03'28
dese. Hode	10417160 20 07.10) / (1004		minimum elong	10420 Feb 15 14:34	0°) 43′07	
superior conj	10419 Mar 06 12:43	19° ¥ 36'41	-0°45'23	behind sun begin	10420 Feb 15 06:09	0°) €07'03	0 03 07
minimum elong	10419 Mar 06 07:50	19°) 16'49		behind sun end	10420 Feb 15 23:00	1° ¥ 19'06	
max. Earth dist.	10419 Mar 12 05:39	28°) 47'22	1.44720 AU	max. Earth dist.	10420 Feb 22 20:52	12° ¥ 50'12	1.43278 AU
max. Dartii dist.	10419 Mar 12 23:58	0°Υ	1.11/20110	evening rise	10420 Feb 29 18:41	23° \ 51'07	1.13270710
evening rise	10419 Mar 22 02:02	14° Y ′09'07		evening rise	10420 Mar 04 18:07	0°Υ	
e vennig rise	10419 Apr 01 13:52	0°8			10420 Mar 25 16:55	0°8	
evening max el	10419 Apr 19 13:05	24° 8 03'53	20°32'19	evening max el	10420 Apr 01 09:21	7° 8 47'09	21°44'48
asc. node	10419 Apr 23 09:59	27° 8 19'37	20 32 17	asc. node	10420 Apr 09 07:11	13° 8 03'57	21 11 10
retrograde	10419 Apr 27 15:10	28° 8 46'10		retrograde	10420 Apr 10 13:16	13° 8 11'41	
evening set	10419 May 01 16:13	27° 8 12'28		evening set	10420 Apr 15 00:38	11° 8 22'41	
inferior conj	10419 May 06 23:11	21° 8 05'18	3°11'07	inferior conj	10420 Apr 20 07:37	_	2°53'16
minimum elong	10419 May 06 22:05	21° 8 09'05	3°10'39	minimum elong	10420 Apr 20 05:48	_	2°52'40
min. Earth dist.	10419 May 07 14:48	20° 8 11'36	0.68059 AU	min. Earth dist.	10420 Apr 20 10:12	4° 8 55'47	0.68552 AU
morning rise	10419 May 12 03:43	14° 8 47'45	0.000057110	mm. Earth dist.	10420 Apr 24 06:41	30°RY	0.00332710
direct	10419 May 17 16:19	12° 8 20'39		morning rise	10420 Apr 25 10:47	28° Y 51'38	
desc. node	10419 May 27 07:47	17° 8 33'16		direct	10420 Apr 30 09:59	26° Y '43'00	
morning max el	10419 May 28 19:44	19° 8 00'45	24°09'16		10420 May 07 12:15	0°8	
morning max or	10419 Jun 07 02:35	0°П	21 07 10	morning max el	10420 May 10 06:26	2° 8 32'18	22°39'25
	10419 Jun 27 08:05	0°©		desc. node	10420 May 13 04:42	5° 8 41'45	
morning set	10419 Jul 03 09:09	10°508'40		dese. Hode	10420 May 31 02:47	0°Ⅱ	
max. Earth dist.	10419 Jul 07 02:03	16°939'08	1.38124 AU	morning set	10420 Jun 13 06:13	20° ∏ 34'19	
man. Barur diot.	10.115 041 07 02.05	10 257 00	1.50121110	max. Earth dist.	10420 Jun 17 23:24	28° I I27'01	1.40407 AU
superior conj	10419 Jul 14 06:52	29° © 58'17	-0°56'13		10420 Jun 18 21:12	0°9	
minimum elong	10419 Jul 14 10:35	0°Ω16'04	0°56'02				
	10419 Jul 14 07:14	$0^{\circ}\Omega$		superior conj	10420 Jun 25 18:37	12° © 08'26	-1°28'31
asc. node	10419 Jul 20 09:01	11° Ω 50'09		minimum elong	10420 Jun 26 00:27	12° © 34'48	1°28'15
evening rise	10419 Jul 23 03:14	17° Ω 17'30		Č	10420 Jul 05 08:43	$0^{\circ}\Omega$	
Č	10419 Jul 29 19:06	0° m)		evening rise	10420 Jul 05 18:27	0° Ω 46′02	
evening max el	10419 Aug 08 14:11	14° m) 06'51	19°03'01	asc. node	10420 Jul 06 05:56	1° Ω 40′21	
retrograde	10419 Aug 17 10:39	18° Mp 31'20		evening max el	10420 Jul 21 18:52	26° Ω 29'29	18°24'41
evening set	10419 Aug 19 07:36	18° m) 20'17		C	10420 Jul 27 06:18	0° ™	
desc. node	10419 Aug 23 06:24	16° m 52'47		retrograde	10420 Jul 29 08:26	0° mp 17'19	
inferior conj	10419 Aug 27 16:49	14° Mp 05'58	-1°22'45	evening set	10420 Jul 31 11:23	0° mp 00'11	
minimum elong	10419 Aug 27 13:14	14° m 12'09	1°21'31		10420 Jul 31 11:40	30°RΩ	
min. Earth dist.	10419 Aug 30 14:03	12°Mp07'10	0.56280 AU	inferior conj	10420 Aug 08 01:16	25° Ω 26′07	0°20'00
morning rise	10419 Sep 04 15:46	9° m 18'03		minimum elong	10420 Aug 08 01:58	25° Ω 24'41	0°19'25
direct	10419 Sep 10 00:51	8° m 10'15		desc. node	10420 Aug 09 03:39	24° Ω 32'32	
morning max el	10419 Sep 24 05:37	15° Mp 26'24	25°53'06	min. Earth dist.	10420 Aug 11 09:33	22° Ω 45′16	0.58198 AU
	10419 Oct 05 23:04	0∘ ⊽		morning rise	10420 Aug 15 13:01	20° Ω 01'51	
asc. node	10419 Oct 16 09:29	18° ≏ 02'34		direct	10420 Aug 21 15:09	18° Ω 25′05	
morning set	10419 Oct 22 01:03	29° ჲ 36'32		morning max el	10420 Sep 04 23:59	26° Ω 05'58	27°09'27
	10419 Oct 22 05:26	0° M			10420 Sep 08 16:11	0° ™	
					10420 Sep 28 08:31	0∘ ⊽	
superior conj	10419 Oct 28 21:03	14° M 35'57	1°35'29	asc. node	10420 Oct 02 06:19	7° ≏ 38'24	
minimum elong	10419 Oct 28 19:47	14°M28'54		morning set	10420 Oct 05 09:57	14° ≙ 10′20	
max. Earth dist.	10419 Oct 29 21:58	16°M53'42	1.31872 AU				
evening rise	10419 Nov 04 21:26	29°M47'09		superior conj	10420 Oct 12 08:50	29° ≏ 23'35	1°25'30
-	10419 Nov 04 23:54	0° ∡ ¹		minimum elong	10420 Oct 12 06:52	29° ≙ 12'39	1°25'29
desc. node	10419 Nov 19 04:16	26° ≯ 18′20		max. Earth dist.	10420 Oct 12 07:03	29° ≙ 13'43	1.31481 AU
	10419 Nov 21 12:29	ರ°0			10420 Oct 12 15:22	0° M	
evening max el	10419 Dec 06 22:08	19° る 24'20	27°23'20	evening rise	10420 Oct 19 03:36	14°M16'12	
retrograde	10419 Dec 20 18:53	26° ප් 40'09		-	10420 Oct 27 00:14	0° ∡ ¹	
evening set	10419 Dec 27 19:25	24° る 22'54		desc. node	10420 Nov 05 01:26	15° ∡ 15'35	
min. Earth dist.	10419 Dec 31 12:27	21° る 31'20	0.61728 AU		10420 Nov 16 15:39	ರ°0	

	10420 N 10 00 40	10=21100	26042120	1 1	10421 0 4 22 22 22	20.720156	
evening max el	10420 Nov 18 00:48	1°る21'09	26°43′29	desc. node	10421 Oct 22 22:38	3° ⋌ ¹20'56	
retrograde	10420 Dec 01 23:16	8° る 29'19		evening max el	10421 Oct 30 19:33	12° ∡ ¹26'42	25°31'30
evening set	10420 Dec 08 17:08	6° ප 34'56		retrograde	10421 Nov 13 16:52	19° ∡ ′26′30	
min. Earth dist.	10420 Dec 12 14:57	3° る 57'59	0.59615 AU	evening set	10421 Nov 19 17:17	18° ∡ ′03′12	
inferior conj	10420 Dec 15 19:15	1° る 27'00	-4°05'29	min. Earth dist.	10421 Nov 24 07:53	15° ∡ ¹25'17	0.57572 AU
minimum elong	10420 Dec 16 02:59	1° る 11'40	4°02'39	inferior conj	10421 Nov 27 06:39	13° ∡ ¹23'47	-5°09'01
_	10420 Dec 17 16:09	30°R <i>≯</i>		minimum elong	10421 Nov 27 13:49	13° ∡ 11′25	5°07'12
morning rise	10420 Dec 23 15:31	26° ₹ 47'42		morning rise	10421 Dec 05 12:40	9° ∡ 106'52	
direct	10420 Dec 25 18:40	26° ₹ '31'03		direct	10421 Dec 07 19:34	8° ₹ ⁷ 50'55	
asc. node	10420 Dec 29 06:11	27° 🗷 17'44		asc. node	10421 Dec 16 03:15	12° ∡ 38′20	
asc. node	10420 Dec 25 00:11 10421 Jan 02 03:17	0°る			10421 Dec 16 15:19	13°× 36'20	18°54'55
			10012110	morning max el			16 34 33
morning max el	10421 Jan 02 11:25	0°る19'28	18°12'18		10421 Dec 28 02:45	0°る	
morning set	10421 Jan 18 04:16	25° පි 16'36		morning set	10422 Jan 02 02:31	9° ප 35'13	
	10421 Jan 20 16:22	0° ≈				_	
				superior conj	10422 Jan 10 13:39	26° පි 06'04	1°01'21
superior conj	10421 Jan 27 16:41	12° ≈ 58′24	0°32'54	minimum elong	10422 Jan 10 16:46	26° る 20'54	1°01'24
minimum elong	10421 Jan 27 19:03	13° ≈ 09'04	0°32'56		10422 Jan 12 15:14	0° ≈	
desc. node	10421 Feb 01 00:46	20° ≈ 39'49		max. Earth dist.	10422 Jan 17 14:19	9° ≈ 02'54	1.39192 AU
max. Earth dist.	10421 Feb 04 07:21	26°≈16'48	1.41363 AU	desc. node	10422 Jan 18 21:38	11° ≈ 21′07	
	10421 Feb 06 12:38	0° ₩		evening rise	10422 Jan 21 11:34	15° ≈ 48'58	
evening rise	10421 Feb 09 04:23	4°) €21'34		C	10422 Jan 30 03:53	0° ₩	
	10421 Feb 26 00:33	0°Υ			10422 Feb 20 17:08	0° Υ	
evening max el	10421 Mar 15 01:31	21° Υ 33'00	23°04'04	evening max el	10422 Feb 25 15:32	5°Υ22'26	24°24'01
•	10421 Mar 25 09:05	27° Y 38'52	23 04 04	-		12° Υ 03'07	24 2401
retrograde		27° Y 23'07		retrograde	10422 Mar 09 01:22	12 γ 03 07 10° γ 07'57	
asc. node	10421 Mar 27 04:25			asc. node	10422 Mar 14 01:39		
evening set	10421 Mar 30 07:46	25° Y 35′21		evening set	10422 Mar 14 12:07	9° Ƴ 46'33	
inferior conj	10421 Apr 04 16:43	19° Ƴ 09'50	2°25'37	min. Earth dist.	10422 Mar 19 02:58	4° Υ 29'50	0.68229 AU
minimum elong	10421 Apr 04 14:32	19° Ƴ 17'21	2°24'54	inferior conj	10422 Mar 20 00:36	3° Y 17'15	1°48'39
min. Earth dist.	10421 Apr 04 07:00	19° Ƴ 43'26	0.68605 AU	minimum elong	10422 Mar 19 22:31	3° Y ′24'14	1°47'58
morning rise	10421 Apr 09 21:12	13° Ƴ 02'27			10422 Mar 22 14:07	30° Ŗ ₩	
direct	10421 Apr 14 06:59	11° Ƴ 15′05		morning rise	10422 Mar 25 09:02	27° ₩ 17'06	
morning max el	10421 Apr 22 21:32	16° Ƴ 13'10	21°14'44	direct	10422 Mar 29 05:58	25° ¥ 51′28	
desc. node	10421 Apr 30 01:34	24° Y 38'05			10422 Apr 05 17:14	$0^{\circ}\mathbf{\Upsilon}$	
	10421 May 04 01:06	0°B		morning max el	10422 Apr 05 19:55	0° Ƴ 06'37	20°01'27
morning set	10421 May 24 00:41	29° 8 47'43		desc. node	10422 Apr 16 22:23	14° Y ′09'31	
. 8	10421 May 24 03:49	0°II			10422 Apr 27 15:10	0°B	
max. Earth dist.	10421 May 31 02:12	11° I 107'37	1.42532 AU	morning set	10422 May 03 01:12	8° 8 16'51	
man. Bartin and.	10.21	11 20,0,	12002.110	max. Earth dist.	10422 May 13 12:39	24° 8 41'07	1.44229 AU
superior conj	10421 Jun 07 09:39	23° Ⅲ 21'52	1055137	max. Lartii dist.	10422 May 16 20:08	24 О 41 07	1.4422) AO
		23° II 48'29			10422 May 10 20.00	υп	
minimum elong	10421 Jun 07 15:51		1 33 33		10422 14 10 00 40	20.Ш22100	2011122
	10421 Jun 11 05:31	0°©		superior conj	10422 May 19 00:40	3° Ⅱ 33'09	
evening rise	10421 Jun 18 20:13	13° © 35'12		minimum elong	10422 May 19 03:23	3° ∐ 44'17	2°11'44
asc. node	10421 Jun 23 02:54	21°©16'16		evening rise	10422 Jun 01 03:51	25° Ⅱ 35'03	
	10421 Jun 28 05:35	0 $^{\circ}\Omega$			10422 Jun 03 17:37	0 \circ	
evening max el	10421 Jul 05 05:54	9° £ 23′43	18°06'23	asc. node	10422 Jun 09 23:57	10° © 32'48	
retrograde	10421 Jul 11 23:49	12° Ω 50′07		evening max el	10422 Jun 18 19:34	22°540'26	18°07'05
evening set	10421 Jul 14 10:40	12° £ 23′06		retrograde	10422 Jun 25 04:53	26° © 00'41	
inferior conj	10421 Jul 21 06:26	7° Ω 28'36	1°38'25	evening set	10422 Jun 27 23:35	25°521'10	
minimum elong	10421 Jul 21 09:03	7° Ω 22'29	1°37'10	inferior conj	10422 Jul 04 04:50	20° © 07'37	2°31'27
min. Earth dist.	10421 Jul 24 12:27	4° Ω 27'10	0.60437 AU	minimum elong	10422 Jul 04 07:30	20° © 00'32	2°30'19
desc. node	10421 Jul 27 00:53	2° Ω 23'50	0.00 15 / 110	min. Earth dist.	10422 Jul 07 00:19	17° © 08'44	0.62683 AU
morning rise	10421 Jul 28 04:36	1° Ω 36'31		morning rise	10422 Jul 10 13:34	13°958'01	0.02003710
morning risc		30°R9		desc. node			
T' '	10421 Jul 31 13:48				10422 Jul 13 22:04	12°505'58	
direct	10421 Aug 03 17:57	29° © 30'40		direct	10422 Jul 17 06:48	11°529'16	25050141
	10421 Aug 07 00:33	0°Ω	0.00.00.00	morning max el	10422 Jul 31 08:12	19° © 31'32	2/~53'41
morning max el	10421 Aug 18 01:12		27°50'50		10422 Aug 09 06:05	0 $^{\circ}$ Ω	
	10421 Sep 04 04:01	0° m)			10422 Aug 28 03:06	0° m)	
asc. node	10421 Sep 19 03:08	27° m 28'37		morning set	10422 Sep 03 13:22	12°M/26'50	
morning set	10421 Sep 19 14:46	28° Th 28° 55		asc. node	10422 Sep 05 23:58	17° m 28'16	
	10421 Sep 20 08:11	0∘ ⊽		max. Earth dist.	10422 Sep 08 20:31	23° m 31'33	1.32160 AU
max. Earth dist.	10421 Sep 25 15:50	11° ≏ 29'41	1.31574 AU				
				superior conj	10422 Sep 11 04:39	28° m 35'43	0°49'44
					*		
superior conj	10421 Sep 26 19:59	14° ♀ 05'22	1°10'10	minimum elong	10422 Sep 11 02:38	28° m 24'43	0°49'18
superior conj minimum elong	-	14° £ 05′22 13° £ 52′56	1°10'10 1°09'54	minimum elong	-	28° Mp 24'43 0° <u>₽</u>	0°49'18
minimum elong	10421 Sep 26 17:44	13° ≏ 52'56		_	10422 Sep 11 20:04	0∘ ⊽	0°49'18
	10421 Sep 26 17:44 10421 Oct 03 13:19	13° £ 52'56 28° £ 52'38		minimum elong evening rise	10422 Sep 11 20:04 10422 Sep 18 00:41	0° ჲ 13° ჲ 30'50	0°49'18
minimum elong	10421 Sep 26 17:44	13° ≏ 52'56		_	10422 Sep 11 20:04	0∘ ⊽	0°49'18

	10422 0 4 12 07 21	220M 40127	22057104		10422 0 22 10 07	20 M 56105	22017145
evening max el	10422 Oct 12 07:21	22°M48'35	23°5/04	evening max el	10423 Sep 23 19:07	2°M56'05	22°16'45
retrograde	10422 Oct 25 22:03	29°M36'59		desc. node	10423 Sep 26 17:08	5°M29'13	
evening set	10422 Oct 30 16:53	28°M46′56		retrograde	10423 Oct 06 15:42	9°M20'18	
min. Earth dist.	10422 Nov 05 17:50		0.55873 AU	evening set	10423 Oct 09 22:45	8°M56'16	
inferior conj	10422 Nov 07 21:32	24°M31'19	-5°43'41	min. Earth dist.	10423 Oct 18 01:11	5°M21'38	0.54821 AU
minimum elong	10422 Nov 07 23:25	24°M28'27	5°43'12	inferior conj	10423 Oct 18 19:35	4°M55'42	-5°28'44
morning rise	10422 Nov 16 07:56	20°M34'47		minimum elong	10423 Oct 18 13:20	5° ™ 04'31	5°27'40
direct	10422 Nov 19 01:03	20°M16'03		morning rise	10423 Oct 27 05:32	1°M08'40	
morning max el	10422 Nov 29 07:19	25° ™ 07'47	20°00'11	direct	10423 Oct 30 13:56	0°M43'35	
asc. node	10422 Dec 03 00:17	29°M15'34		morning max el	10423 Nov 11 09:47	6°M₁8′29	21°27'28
	10422 Dec 03 13:58	0° ∡ ¹		asc. node	10423 Nov 19 21:14	16° ™ 53'29	
morning set	10422 Dec 17 07:35	24° ∡ 10'52			10423 Nov 27 07:18	0° √	
morning sec	10422 Dec 20 03:55	0°ਰ		morning set	10423 Dec 01 16:51	8° √ 56'04	
	10122 Dec 20 03.33	° O		morning sec	10123 BCC 01 10.31	0 7 3001	
superior conj	10422 Dec 25 00:55	9° る 53'28	1°21'34	superior conj	10423 Dec 08 22:27	24° × °09'07	1°34'05
minimum elong	10422 Dec 25 03:35	10°පි06'44	1°21'48	minimum elong	10423 Dec 09 00:04	24° х 17′30	1°34'28
max. Earth dist.	10422 Dec 30 21:02	21°る14'04	1.37012 AU	mmunum viong	10423 Dec 11 18:41	0°る	1 3 . 20
evening rise	10422 Dec 30 21:02 10423 Jan 03 15:04	21° ろ 08'37	1.57012 AU	max. Earth dist.	10423 Dec 13 07:58	3°る07'37	1.35048 AU
evening rise							1.33048 AU
	10423 Jan 04 15:58	0° ≈		evening rise	10423 Dec 17 11:40	11°る12'34	
desc. node	10423 Jan 05 18:31	1°≈57'16		desc. node	10423 Dec 23 15:29	22° る 24'18	
	10423 Jan 23 12:45	0° ∀			10423 Dec 28 03:25	0° ≈	
evening max el	10423 Feb 08 04:52	19° ∺ 12'07	25°37'52		10424 Jan 18 21:18	0° ∀	
retrograde	10423 Feb 20 13:05	26° ∺ 17'51		evening max el	10424 Jan 21 18:13	2° 升 56'42	26°38'20
evening set	10423 Feb 26 12:04	23°) € 50'45		retrograde	10424 Feb 03 19:34	10°) (16′29	
asc. node	10423 Feb 28 22:55	21°) 24'33		evening set	10424 Feb 10 05:48	7°) 43′09	
min. Earth dist.	10423 Mar 02 19:52	19° ¥ 09'06	0.67442 AU	min. Earth dist.	10424 Feb 14 07:35	3°) €35'48	0.66265 AU
inferior conj	10423 Mar 04 05:22	17°) 22'18	1°02'29	asc. node	10424 Feb 15 20:08	1°) (47'22	
minimum elong	10423 Mar 04 03:54	17° X 22'18	1°02'05	inferior conj	10424 Feb 16 04:56	1° X 21'06	0°07'14
-	10423 Mar 09 20:15	11° X 31'01	1 02 03			1° X 21'42	0°07'26
morning rise				minimum elong	10424 Feb 16 04:44		
direct	10423 Mar 13 05:19	10° ¥ 25'36		transit middle	10424 Feb 16 04:44	1°) €21'42	0°07'26
morning max el	10423 Mar 20 02:09	14° ¥ 10′28	19°02'51	transit begin	10424 Feb 16 02:08	1° ∺ 29'25	
	10423 Apr 01 02:02	0° Υ		transit end	10424 Feb 16 07:19	1° ℋ 14'00	
greatest brilliancy	10423 Apr 02 11:31	2° Y 05'53	-0.7m		10424 Feb 17 08:35	30° Ŗ ≈	
desc. node	10423 Apr 03 19:09	4° Y 05'53		morning rise	10424 Feb 22 04:42	25° ≈ 40'32	
morning set	10423 Apr 12 05:05	17° Ƴ 03'22		direct	10424 Feb 25 03:18	24° ≈ 52′24	
	10423 Apr 20 13:02	0°8		morning max el	10424 Mar 02 14:49	28°≈19'41	18°20'27
max. Earth dist.	10423 Apr 26 04:55	8° 8 51'17	1.45301 AU	Č	10424 Mar 04 04:39	0°) €	
	· · · ·			desc. node	10424 Mar 20 15:53	24°) €20'32	
superior conj	10423 Apr 28 17:20	12° 8 49'00	-2°09'27	morning set	10424 Mar 22 08:30	27° H 02'37	
minimum elong	10423 Apr 28 12:51	12° 8 31'19		morning set	10424 Mar 24 04:59	27 γ (0237	
minimum clong	-	0° Ⅱ	2 0937		10424 Mai 24 04.39	0 1	
	10423 May 09 11:24				101011 06 00 05	2100012120	1045110
evening rise	10423 May 13 12:52	6° Ⅲ 36′23		superior conj	10424 Apr 06 23:25	21° Y 43'30	
asc. node	10423 May 27 21:02	29° ∏ 22'47		minimum elong	10424 Apr 06 14:02		
	10423 May 28 07:32	0 \circ		max. Earth dist.	10424 Apr 07 23:55	23° Y 19′21	1.45653 AU
evening max el	10423 Jun 02 08:38	6° © 11'19	18°26'14		10424 Apr 12 06:30	8° 0	
retrograde	10423 Jun 08 19:08	9° 5 39'31		evening rise	10424 Apr 22 22:07	16° 8 40'04	
evening set	10423 Jun 11 21:38	8° © 45'50			10424 May 01 10:32	Π $^{\circ}0$	
inferior conj	10423 Jun 17 16:22	3° © 15'15	3°02'47	greatest brilliancy	10424 May 03 08:28	2° Ⅱ 57′20	-0.8m
minimum elong	10423 Jun 17 18:07	3° © 10'02	3°02'02	asc. node	10424 May 13 18:09	17° Ⅱ 37′07	
min. Earth dist.	10423 Jun 19 21:39	0° © 38'07	0.64697 AU	evening max el	10424 May 15 18:33	19° ∏ 49'39	19°02'58
	10423 Jun 20 11:06	30°RⅡ		retrograde	10424 May 22 14:50	23° Ⅱ 38′29	
morning rise	10423 Jun 23 13:34	26° I I56'51		evening set	10424 May 26 01:27	22° ∏ 29'42	
direct	10423 Jun 30 04:05	24° Ⅱ 15'07		inferior conj	10424 May 31 13:16	16° ∏ 43'45	2016142
				-	•		
desc. node	10423 Jun 30 19:10	24° Ⅱ 16′28		minimum elong	10424 May 31 13:51	16° Ⅱ 41'54	
	10423 Jul 11 10:36	0°©	2001101	min. Earth dist.	10424 Jun 02 03:32	14° ∏ 41'34	0.66348 AU
morning max el	10423 Jul 13 18:29	2° © 13'32	27°21'01	morning rise	10424 Jun 06 01:41	10° Ⅱ 22'51	
	10423 Aug 03 12:04	0 ° Ω		direct	10424 Jun 12 08:37	7° Ⅱ 39'06	
morning set	10423 Aug 18 03:12	25° Ω 57'41		desc. node	10424 Jun 16 16:13	8° Ⅱ 42'55	
	10423 Aug 20 04:11	0° m)		morning max el	10424 Jun 25 05:14	15° ∏ 19'28	26°19'56
max. Earth dist.	10423 Aug 22 17:22	5° Mp 10'56	1.33249 AU		10424 Jul 07 06:14	0 \circ \odot	
asc. node	10423 Aug 23 20:48	7° m/33'10			10424 Jul 26 07:41	$0^{\circ}\Omega$	
	-			morning set	10424 Jul 31 04:49	8° Ω 51'56	
superior conj	10423 Aug 26 08:48	12° m)49'19	0°24'33	max. Earth dist.	10424 Aug 04 03:36	16° Ω 25'06	1.34833 AU
minimum elong	10423 Aug 26 07:37	12° m/42'59	0°24'07	Date: Wibt.		002000	1.1 .000 110
evening rise	10423 Aug 20 07.37 10423 Sep 02 11:49	28° Mp 05'36	J 270/	superior conj	10424 Aug 09 05:59	26° Ω 39'01	-0°04'46
evening rise	_	-			-		
	10423 Sep 03 09:29	0∘ m		minimum elong	10424 Aug 09 06:16	26° Ω 40′29	0°05'02
	10423 Sep 21 01:34	0°M₊		behind sun begin	10424 Aug 09 00:36	26° Ω 11'24	

hahind aun and	10424 Aug 00 11:56	279 000127		gunariar agni	10425 Iv. 22 17:15	00 057145	0027102
behind sun end asc. node	10424 Aug 09 11:56 10424 Aug 09 17:37	27° Ω 09'37 27° Ω 38'49		superior conj minimum elong	10425 Jul 23 17:15 10425 Jul 23 19:37	9° £ 57'45 10° £ 09'23	
asc. node	Č	0°m)		asc. node	10425 Jul 27 14:28	10 δ 2 09 23	0 3700
evening rise	10424 Aug 10 20:55 10424 Aug 16 20:40	12° Mp 30'35		evening rise	10425 Jul 27 14.28 10425 Aug 01 01:00	17 8 €41 47 26° Ω 39'54	
evening rise	-	0° ⊽		evening rise	10425 Aug 01 01:00 10425 Aug 02 16:56	0°m	
evening max el	10424 Aug 25 21:27 10424 Sep 04 16:10	0 <u>≈</u> 13° <u>≈</u> 25'45	20°46'20	evening max el	10425 Aug 02 16.36 10425 Aug 18 02:59	ابات 24° m 39'39	19°34'38
desc. node	10424 Sep 04 10:10 10424 Sep 12 14:24	13 = 25 45 18° £ 35'04	20 40 20	retrograde	10425 Aug 18 02.39 10425 Aug 27 21:10	24 11/3939 29°11/30'07	19 34 36
retrograde	10424 Sep 12 14.24 10424 Sep 16 03:24	18 ≥ 33 04 19° ₽ 07'03		evening set	10425 Aug 27 21:10 10425 Aug 29 17:30	29° my 20'29	
evening set	10424 Sep 18 08:12	19 ⊆ 07 03 18° ⊆ 55'22		desc. node	10425 Aug 30 11:39	29° m 11'13	
inferior conj	10424 Sep 27 11:40	16 ⊆ 55 22 14° ⊆ 59'37	4°17'02	inferior conj	10425 Aug 30 11:39 10425 Sep 07 12:25	25° M) 16'06	2020127
minimum elong	10424 Sep 27 11:40 10424 Sep 27 01:48	14 ⊆ 3937 15° ⊆ 13'44	4°14'11	minimum elong	10425 Sep 07 12.25 10425 Sep 07 05:46	25° m) 26'37	
min. Earth dist.	10424 Sep 28 09:26	13 ⊆ 13 44 14° ⊆ 28'30	0.54662 AU	min. Earth dist.	10425 Sep 07 03:40 10425 Sep 09 20:26	23° mp 47'40	
morning rise	10424 Sep 28 09:20 10424 Oct 05 19:20	14 = 28 30 11° ⊆ 02'10	0.34002 AU	morning rise	10425 Sep 15 15:48	20° Mp 49'47	0.33436 AU
direct	10424 Oct 09 21:57	11° 2 02 10		direct	10425 Sep 13 13:48 10425 Sep 20 14:11	19° My 55'28	
morning max el	10424 Oct 09 21:37 10424 Oct 23 01:11	16° £ 45'34	23°10'52	morning max el	10425 Oct 04 12:24	26° My 53'16	24°57'17
morning max er	10424 Oct 23 01:11 10424 Nov 02 13:31	0°M	23 10 32	morning max er	10425 Oct 04 12:24 10425 Oct 07 12:50	0° ⊡	24 3/1/
asc. node	10424 Nov 05 18:07	5°M17'15		asc. node	10425 Oct 07 12:30 10425 Oct 23 14:59	0 = 24° £ 15'49	
	10424 Nov 15 04:13	23°M43'59		asc. node	10425 Oct 26 13:42	24 = 1349 0° M	
morning set		23 11643 39 0° √ 1		mamina aat	10425 Oct 30 15:56	8°M30'00	
	10424 Nov 18 02:17	0 x .		morning set	10423 Oct 30 13.36	8 11630 00	
superior conj	10424 Nov 22 02:57	8° ∡ ¹42'32	1°39'34	superior conj	10425 Nov 06 11:54	23°M26'17	1°38'40
minimum elong	10424 Nov 22 03:21	8° ∡ ¹44'40	1°40'00	minimum elong	10425 Nov 06 11:10	23°M22'17	1°39'01
max. Earth dist.	10424 Nov 25 02:25	15° ∡ '02'28	1.33458 AU	max. Earth dist.	10425 Nov 08 04:47	27°M09'57	1.32319 AU
evening rise	10424 Nov 29 21:35	24° ∡ ¹50'35			10425 Nov 09 12:09	0°⊀	
Ü	10424 Dec 02 13:15	0°రె		evening rise	10425 Nov 13 17:32	8° ₹ 54'15	
desc. node	10424 Dec 09 12:30	12° る 36'21		· ·	10425 Nov 24 22:40	0° ろ	
	10424 Dec 20 15:28	0° ≈		desc. node	10425 Nov 26 09:34	2° る 26'49	
evening max el	10425 Jan 03 07:16	16° ≈ 27'12	27°18'19	evening max el	10425 Dec 16 18:28	29° る 31'36	27°30'49
retrograde	10425 Jan 16 20:01	23°≈50'30		Ü	10425 Dec 17 06:36	0° ≈	
evening set	10425 Jan 23 15:13	21° ≈ 17'13		retrograde	10425 Dec 30 13:21	6°≈50'36	
min. Earth dist.	10425 Jan 27 12:00	17° ≈ 42'34	0.64725 AU	evening set	10426 Jan 06 13:34	4° ≈ 25'13	
inferior conj	10425 Jan 29 20:57	15° ≈ 08'03	-0°56'42	min. Earth dist.	10426 Jan 10 07:11	1° ≈ 19'39	0.62885 AU
minimum elong	10425 Jan 29 22:40	15° ≈ 03'23	0°55'36		10426 Jan 11 16:16	30°Rる	
asc. node	10425 Feb 01 17:18	12° ≈ 12'45		inferior conj	10426 Jan 13 02:33	28° る 35'51	-2°08'00
morning rise	10425 Feb 05 07:48	9° ≈ 40'37		minimum elong	10426 Jan 13 06:45	28° る 25'36	
direct	10425 Feb 07 21:40	9° ≈ 06'03		asc. node	10426 Jan 19 14:27	23° る 35'56	
morning max el	10425 Feb 14 07:24	12° ≈ 26'56	17°55'00	morning rise	10426 Jan 20 02:11	23° る 24'30	
	10425 Feb 26 14:46	0° ∀		direct	10426 Jan 22 09:32	22° る 59'37	
morning set	10425 Mar 03 17:16	8° ¥ 28'53		morning max el	10426 Jan 29 00:55	26° පි 23'51	17°47'03
desc. node	10425 Mar 07 12:39	14°) 48′23			10426 Feb 01 03:36	0° ≈	
	10425 Mar 16 20:46	0° Υ		morning set	10426 Feb 14 02:54	21° ≈ 06'42	
				8-11	10426 Feb 19 05:31	0° ∀	
superior conj	10425 Mar 17 13:27	1° Y ′06'38	-1°09'57	desc. node	10426 Feb 22 09:26	5°) €24'39	
minimum elong	10425 Mar 17 05:49	0° Ƴ 36'10					
max. Earth dist.	10425 Mar 21 19:22	7° Y ′50'23	1.45262 AU	superior conj	10426 Feb 26 01:03	11°) 32'31	-0°27'11
evening rise	10425 Apr 02 13:48	26° Y ′06'46		minimum elong	10426 Feb 25 22:17	11°) (21'00	
	10425 Apr 05 02:40	0°8		max. Earth dist.	10426 Mar 04 13:07	22°) (09'15	1.44176 AU
greatest brilliancy	10425 Apr 17 06:25	18° 8 17'26	-0.6m		10426 Mar 09 12:00	$0^{\circ}\Upsilon$	
<u>.</u>	10425 Apr 25 20:10	0°II		evening rise	10426 Mar 13 01:44	5° Y 32'54	
evening max el	10425 Apr 28 23:38	3° Ⅱ 31'47	19°55'45	5	10426 Mar 29 11:33	0°8	
asc. node	10425 Apr 30 15:18	5° Ⅱ 04'47		evening max el	10426 Apr 11 23:08	17° 8 15'02	21°02'03
retrograde	10425 May 06 13:03	7° I I51'56		asc. node	10426 Apr 17 12:30	21° 8 31'24	
evening set	10425 May 10 08:34	6° Ⅲ 27′29		retrograde	10426 Apr 20 11:39	22° 8 14'25	
inferior conj	10425 May 15 16:34	0° Ⅱ 27'46	3°16'36	evening set	10426 Apr 24 17:00	20° 8 34'11	
minimum elong	10425 May 15 16:01	0° П 29'37		inferior conj	10426 Apr 29 23:44	14° 8 22'24	3°04'47
	10425 May 16 00:48	30°R₩		minimum elong	10426 Apr 29 22:18	14° 8 27'25	3°04'16
min. Earth dist.	10425 May 16 16:16	29° 8 07'57	0.67567 AU	min. Earth dist.	10426 Apr 30 09:45	13° 8 47'43	0.68330 AU
morning rise	10425 May 20 23:08	24° 8 08'18		morning rise	10426 May 05 03:22	8° 8 06'41	
direct	10425 May 26 19:07	21° 8 32'38		direct	10426 May 10 10:28	5° 8 46'44	
desc. node	10425 Jun 03 13:11	24° 8 56'43		morning max el	10426 May 21 00:34	12° 8 05'15	23°30'51
morning max el	10425 Jun 07 15:00	28° 8 38'35	24°59'51	desc. node	10426 May 21 10:08	12° 8 29'39	
	10425 Jun 08 22:13	0°Ⅱ			10426 Jun 04 08:39	0°Ⅱ	
	10425 Jul 01 00:21	0ಂ ತಾ			10426 Jun 23 20:04	0ಂತಿ ೧.ಗ	
morning set	10425 Jul 13 14:01	20°958'40		morning set	10426 Jun 25 01:36	2° © 03'58	
max. Earth dist.	10425 Jul 17 04:14	27°\$29'21	1.36844 AU	max. Earth dist.	10426 Jun 29 01:02	8°953'56	1.39107 AU
Zarur diot.	10425 Jul 18 12:40	0°Ω	1.50011110	Durin diot.	-0.20 Juli 27 01.02	c - 5550	1.5,10,110
	-0.20 Jul 10 12.40	~ UU		superior conj	10426 Jul 06 14:50	22° © 35'45	-1°10'15

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minimum elong	10426 Jul 06 19:33	22°957'43	1°09'59	max. Earth dist.	10427 Jun 11 00:49	21° Ⅱ 05'35	1.41357 AU
	10426 Jul 10 12:41	$0^{\circ}\Omega$			10427 Jun 16 06:19	0°©	
asc. node	10426 Jul 14 11:23	7° Ω 37'44					
evening rise	10426 Jul 15 21:59	10° Ω 25'40		superior conj	10427 Jun 18 18:20	4°9522'50	-1°40'58
evening rise	10426 Jul 26 19:49	0° m)		minimum elong	10427 Jun 19 00:40		1°40'46
evening max el	10426 Aug 01 02:08	6° m) 38'47	18°44'08	evening rise	10427 Jun 29 08:03	23°938'57	1 40 40
retrograde	10426 Aug 09 07:52	10° m) 45'38	10 44 00	asc. node	10427 Jul 01 08:20	27° 5 22'27	
evening set	10426 Aug 11 07:07	10° m/ 32'23		asc. nouc	10427 Jul 01 08:20	0°Ω	
desc. node	10426 Aug 17 08:54	7° m ₀ 34'27		evening max el	10427 Jul 15 09:56	19° Ω 15'30	18°14'23
	10426 Aug 17 08:34 10426 Aug 19 08:11	6° Mp 09'43	0027124	•	10427 Jul 13 09:30 10427 Jul 22 13:48	$22^{\circ}\Omega 52'37$	16 14 23
inferior conj	Č			retrograde		$22^{\circ} \Omega 31'41$	
minimum elong	10426 Aug 19 06:41	6° Mp 12'28		evening set	10427 Jul 24 20:00		0057122
min. Earth dist.	10426 Aug 22 11:56	3° Mp 51'07	0.57043 AU	inferior conj	10427 Aug 01 01:47	17° Ω 48'25	
morning rise	10426 Aug 27 02:53	1° Mp 06'06		minimum elong	10427 Aug 01 03:35	17° Ω 44'32	0°55'31
	10426 Aug 30 11:53	30°R€		desc. node	10427 Aug 04 06:10	15° Ω 04'33	0.50100.177
direct	10426 Sep 01 19:56	29° Ω 46'32		min. Earth dist.	10427 Aug 04 10:17	14° Ω 56'06	0.59132 AU
	10426 Sep 04 04:22	0° m)		morning rise	10427 Aug 08 07:52	12° Ω 10'54	
morning max el	10426 Sep 16 02:53	7° m 13'25	26°29'23	direct	10427 Aug 14 15:25	10° Ω 21'43	
	10426 Oct 03 01:26	0∘ ত		morning max el	10427 Aug 29 00:22	18° Ω 09'48	27°31'52
asc. node	10426 Oct 10 11:50	13° ≏ 40'18			10427 Sep 07 22:22	0° ™	
morning set	10426 Oct 15 02:23	23° ≏ 09'49			10427 Sep 25 16:27	0∘ ⊽	
	10426 Oct 18 06:01	0° M ₊		asc. node	10427 Sep 27 08:40	ვ° ჲ 22'52	
				morning set	10427 Sep 29 09:47	7° ≏ 37'48	
superior conj	10426 Oct 21 23:12	8° M .14'11	1°31'54				
minimum elong	10426 Oct 21 21:35	8° ™ 05'14	1°32'03	superior conj	10427 Oct 06 10:54	22° ₽ 59'39	1°19'37
max. Earth dist.	10426 Oct 22 12:35	9° M 28′32	1.31650 AU	minimum elong	10427 Oct 06 08:46	22° ≏ 47'46	1°19'31
evening rise	10426 Oct 28 20:41	23°M16'08		max. Earth dist.	10427 Oct 05 22:10	21° ₽ 48'47	1.31459 AU
	10426 Nov 01 03:10	0° ∡ ¹			10427 Oct 09 14:34	0° M .	
desc. node	10426 Nov 13 06:42	21° ∡ ¹47′03		evening rise	10427 Oct 13 04:35	7° M 48'44	
	10426 Nov 18 20:12	0°₹			10427 Oct 24 14:29	0° ∡ ¹	
evening max el	10426 Nov 29 01:07	11° る 56'38	27°10'40	desc. node	10427 Oct 31 03:53	10° ∡ ¹24'21	
retrograde	10426 Dec 12 22:32	19° る 08'23		evening max el	10427 Nov 11 00:23	23° ∡ ³30′54	26°16'22
evening set	10426 Dec 19 21:31	16° る 59'53			10427 Nov 21 01:52	0° ප	
min. Earth dist.	10426 Dec 23 15:40	14° ප 16'10	0.60834 AU	retrograde	10427 Nov 24 22:27	0° る 35'44	
inferior conj	10426 Dec 26 18:30	11° ප 36'08	-3°23'08		10427 Nov 28 18:04	30°R. ✓	
minimum elong	10426 Dec 27 01:14	11° る 21'40	3°20'18	evening set	10427 Dec 01 10:38	28° ∡ 53′27	
morning rise	10427 Jan 03 07:32	6° る 44'20		min. Earth dist.	10427 Dec 05 13:32	26° ∡ 18'38	0.58722 AU
direct	10427 Jan 05 11:16	6° る 25'33		inferior conj	10427 Dec 08 17:08	23° х 58'02	-4°34'41
asc. node	10427 Jan 06 11:35	6° そ 29'50		minimum elong	10427 Dec 09 01:06	23° ∡ ¹43'10	4°32'08
morning max el	10427 Jan 12 16:06	10° る 02'10	17°57'29	morning rise	10427 Dec 16 18:09	19° ∡ ¹28'34	
· ·	10427 Jan 25 18:32	0° ≈ ≈		direct	10427 Dec 18 22:15	19° ∡ 12'36	
morning set	10427 Jan 28 06:55	4° ≈ 36'10		asc. node	10427 Dec 24 08:41	20° ∡ ′59′13	
· ·				morning max el	10427 Dec 27 01:16	23° ∡ 11'04	18°27'50
superior conj	10427 Feb 07 13:45	23° ≈ 09'52	0°12'51	5 5	10428 Jan 01 11:53	0°ප	
minimum elong	10427 Feb 07 14:51	23° ≈ 14'41	0°13'01	morning set	10428 Jan 11 23:41	18° る 39'48	
behind sun begin	10427 Feb 07 10:07	22°≈53'56		3	10428 Jan 17 21:49	0° ≈	
behind sun end	10427 Feb 07 19:35	23° ≈ 35'23					
desc. node	10427 Feb 09 06:14	26°≈05'50		superior conj	10428 Jan 21 00:20	5° ≈ 48'21	0°45'58
	10427 Feb 11 12:56	0° ∀		minimum elong	10428 Jan 21 03:13	6° ≈ 01'38	0°45'59
max. Earth dist.	10427 Feb 15 02:58	6° ₩ 00'18	1.42511 AU	desc. node	10428 Jan 27 03:04	16° ≈ 47'45	
evening rise	10427 Feb 21 00:43	15°) 33'43		max. Earth dist.	10428 Jan 28 11:45	19° ≈ 09'38	1.40452 AU
evening rise	10427 Mar 02 09:56	0° Υ		evening rise	10428 Feb 01 19:19	26° ≈ 27'21	1.10102110
	10427 Mar 24 18:30	0°8		evening rise	10428 Feb 03 23:09	0° ∀	
evening max el	10427 Mar 25 17:32	0° 8 59'29	22°17'57		10428 Feb 24 02:18	0° Υ	
retrograde	10427 Apr 04 08:54	6° 8 41'34	22 17 37	evening max el	10428 Mar 07 08:23	14° Υ 45'53	23°38'19
asc. node	10427 Apr 04 09:43	6° 8 41'33		retrograde	10428 Mar 18 03:28	21° Υ '08'03	23 36 17
evening set	10427 Apr 09 01:06	4° 8 46'02		asc. node	10428 Mar 21 06:59	20° Υ 21'00	
evening set	10427 Apr 09 01:06 10427 Apr 13 05:07	4 3 46 02 30° R Υ		evening set	10428 Mar 23 07:16	20 γ 21 00 18° γ 58'29	
inferior conj	10427 Apr 13 03:07 10427 Apr 14 08:42	28° Y 24'33	2042142	min. Earth dist.	10428 Mar 28 02:36	13° Y 21'40	0.68493 AU
	•						
minimum elong	10427 Apr 14 06:41	28° Y 31'35	2°42'02	inferior conj	10428 Mar 28 17:31	12° Y 30'37	2°11'04
min. Earth dist.	10427 Apr 14 05:55	28° Y 34'15	0.68635 AU	minimum elong	10428 Mar 28 15:19	12° Y 38'08	2°10'21
morning rise	10427 Apr 19 12:08	22°\bar{\gamma}13'56		morning rise	10428 Apr 02 23:22	6° Y 26'17	
direct	10427 Apr 24 05:37	20° Y 14'16	22002122	direct	10428 Apr 07 03:29	4°Υ48'28	20041150
morning max el	10427 May 03 12:49	25° Y 40'39	22*02'22	morning max el	10428 Apr 15 06:57	9° Υ 27'10	20°41'58
	10427 May 07 10:59	0°8		desc. node	10428 Apr 24 03:52	20° Y 12'39	
desc. node	10427 May 08 07:02	1° 8 00'18			10428 May 01 01:47	0°8	
	10427 May 28 20:18	0°II		morning set	10428 May 14 20:18	20° 8 47'44	
morning set	10427 Jun 05 11:14	11° Ⅱ 58'07			10428 May 20 16:37	Π $^{\circ}0$	

max. Earth dist.	10428 May 23 06:54	4° Ⅱ 10′00	1.43314 AU	morning set	10429 Apr 23 19:05	29° Y 14'39	
gunariar agni	10428 May 29 23:24	15° Ⅱ 10'04	2004:04	max. Earth dist.	10429 Apr 24 06:51 10429 May 05 19:26	0° と 17° と 58'19	1.44761 AU
superior conj minimum elong	10428 May 30 04:43	15° Ⅱ 32'21		max. Earth dist.	10429 May 03 19.20	17 03619	1.44/01 AU
minimum ciong	10428 Jun 07 14:55	0°95	2 04 13	superior conj	10429 May 10 04:10	24° 8 55'15	-2°13'01
evening rise	10428 Jun 11 02:47	6° © 09'07		minimum elong	10429 May 10 04:10	24° 8 54'51	
asc. node	10428 Jun 17 05:21	16°951'16		minimum ciong	10429 May 13 07:45	0°Ⅱ	2 1323
use. Houe	10428 Jun 25 19:49	0°Ω		evening rise	10429 May 24 01:12	17° ∏ 44'13	
evening max el	10428 Jun 27 22:30	2° Ω 20'40	18°04'21	evening rise	10429 May 31 09:11	0°99	
retrograde	10428 Jul 04 11:42	5°Ω43'00		asc. node	10429 Jun 04 02:25	5°957'25	
evening set	10428 Jul 07 01:45	5°Ω11'05		evening max el	10429 Jun 11 12:18	15° © 44'23	18°13'05
inferior conj	10428 Jul 13 14:53	0°Ω08'21	2°03'48	retrograde	10429 Jun 17 21:03	19° © 06'18	
minimum elong	10428 Jul 13 17:41	0° Ω 01'23	2°02'32	evening set	10429 Jun 20 19:01	18°921'02	
· ·	10428 Jul 13 18:14	30°Rூ		inferior conj	10429 Jun 26 19:21	13°900'21	2°47'04
min. Earth dist.	10428 Jul 16 17:10	27° © 05'02	0.61402 AU	minimum elong	10429 Jun 26 21:42	12° © 53'47	2°46'06
morning rise	10428 Jul 20 07:09	24° © 07'13		min. Earth dist.	10429 Jun 29 09:11	10° © 08'25	0.63577 AU
desc. node	10428 Jul 21 03:21	23° © 34'50		morning rise	10429 Jul 02 22:53	6°546'06	
direct	10428 Jul 26 22:54	21° © 50'28		desc. node	10429 Jul 08 00:30	4° © 19'02	
morning max el	10428 Aug 10 04:35	29° © 51'11	27°56'43	direct	10429 Jul 09 15:49	4°910'06	
	10428 Aug 10 08:07	$0^{\circ}\Omega$		morning max el	10429 Jul 23 13:10	12° © 12'41	27°43'41
	10428 Aug 31 23:15	0° m)		•	10429 Aug 06 16:55	$0^{\circ}\Omega$	
morning set	10428 Sep 12 12:16	21° Mp 48'54			10429 Aug 24 10:51	0° m	
asc. node	10428 Sep 13 05:29	23° m 17'58		morning set	10429 Aug 27 07:28	5° m/ 36'05	
	10428 Sep 16 09:24	0∘ ⊽		asc. node	10429 Aug 31 02:17	13° m 20'12	
max. Earth dist.	10428 Sep 18 05:39	4° ഫ 00'08	1.31759 AU	max. Earth dist.	10429 Sep 01 07:08	15° m)51'47	1.32562 AU
superior conj	10428 Sep 19 21:15	7° م 37'35	1°02'06	superior conj	10429 Sep 04 04:16	22° m 01'35	0°39'37
minimum elong	10428 Sep 19 19:02	7° ჲ 25'23	1°01'46	minimum elong	10429 Sep 04 02:32	21° m 52'10	0°39'09
evening rise	10428 Sep 26 15:14	22° ≏ 26'37			10429 Sep 07 20:19	0∘ ত	
	10428 Sep 30 05:38	0° M		evening rise	10429 Sep 11 02:43	7° ≏ 03'43	
desc. node	10428 Oct 17 01:06	28°M01'59			10429 Sep 23 01:31	0° M	
	10428 Oct 18 15:52	0° ∡ ¹		desc. node	10429 Oct 03 22:21	14°M16'57	
evening max el	10428 Oct 22 15:30	4° ∡ 14'57	24°53'08	evening max el	10429 Oct 04 02:15	14°M26'28	23°14'04
retrograde	10428 Nov 05 11:21	11° ∡ °11′36		retrograde	10429 Oct 17 11:19	21°M06'26	
evening set	10428 Nov 11 00:25	10° ∡ °02'33		evening set	10429 Oct 21 14:36	20°M29'13	
min. Earth dist.	10428 Nov 16 03:08	7° ∡ 18'28	0.56787 AU	min. Earth dist.	10429 Oct 28 11:50	17° M ₊17'39	0.55330 AU
inferior conj	10428 Nov 18 19:43	5° ∡ ³33'42	-5°28'35	inferior conj	10429 Oct 30 02:35	16°M21'16	-5°44'22
minimum elong	10428 Nov 19 01:16	5° ₹ 24'40	5°27'25	minimum elong	10429 Oct 30 00:59	16°M23'36	5°43'58
morning rise	10428 Nov 27 04:23	1° ∡ ′26′18		morning rise	10429 Nov 07 13:08	12°M30'14	
direct	10428 Nov 29 14:35	1° ∡ ¹09'47		direct	10429 Nov 10 12:13	12°M09'14	
morning max el	10428 Dec 09 00:33	5° ∡ ³39'54	19°19'53	morning max el	10429 Nov 21 10:46		20°34'45
asc. node	10428 Dec 10 05:43	6° ∡ 754'05		asc. node	10429 Nov 27 02:40	23°M58'43	
	10428 Dec 24 11:42	0°ಕ			10429 Dec 01 00:31	0° ∡ ¹	
morning set	10428 Dec 26 01:09	3° る 05'58		morning set	10429 Dec 10 08:16	17° ∡ ¹46′13	
		—			10429 Dec 16 05:59	0°₹	
superior conj	10429 Jan 03 03:55	19°る14'07					
minimum elong	10429 Jan 03 06:56	19° る 28'50	1°11'01	superior conj	10429 Dec 17 19:58		1°27'47
D d F	10429 Jan 08 20:23	0° ≈	1 202 47 4 1 1	minimum elong	10429 Dec 17 22:13	3° る 25'56	1°28'05
max. Earth dist.	10429 Jan 09 17:29	1°≈36'31	1.38247 AU	max. Earth dist.	10429 Dec 23 01:17	13° る 36'44	1.36140 AU
desc. node	10429 Jan 12 23:55	7°≈27'02		evening rise	10429 Dec 26 22:41	20°る57'14	
evening rise	10429 Jan 13 11:25	8°≈17'21 0°) €		desc. node	10429 Dec 30 20:50	27°る59'54 0°≈	
arranina marral	10429 Jan 26 20:08	28° ∺ 34'50	24956141		10430 Jan 01 00:29 10430 Jan 20 18:31	0° ∺	
evening max el	10429 Feb 17 21:46 10429 Feb 19 09:38	28 χ 3430	24 30 41	avanina may al	10430 Jan 31 11:16	0 X 12° ¥ 23'55	26°05'49
retrograde	10429 Feb 19 09.38 10429 Mar 01 18:03	5° Υ 28'22		evening max el retrograde	10430 Feb 13 03:39	12 ★ 25 55 19° ★ 36'52	20 03 49
evening set	10429 Mar 07 09:56	3°Υ06'56		evening set	10430 Feb 19 07:27	17° H 06'50	
asc. node	10429 Mar 08 04:14	2° Υ 25'33		asc. node	10430 Feb 19 07.27 10430 Feb 23 01:27	17 X 00 30 13° X 13'39	
450. HOUC	10429 Mar 10 09:20	2 1 23 33 30° R X		min. Earth dist.	10430 Feb 23 01:27 10430 Feb 23 12:41	13 X 13 39 12° X 39'36	0.66981 AU
min. Earth dist.	10429 Mar 11 21:37	28° ₩ 04'59	0.67935 AU	inferior conj	10430 Feb 25 12.41 10430 Feb 25 03:08	12 ★ 3930	0.00981 AU 0°40'09
inferior conj	10429 Mar 13 00:18	26°\(\frac{1}{37}\)'06	1°30'10	minimum elong	10430 Feb 25 02:07	10 X 40 20	0°39'58
minimum elong	10429 Mar 12 22:25	26°\(\frac{1}{3}\)700 26°\(\frac{1}{4}\)3'19	1°29'35	morning rise	10430 Mar 02 21:28	4°) 53'04	0 0/00
morning rise	10429 Mar 18 11:09	20°\(\frac{4}{3}\)1)	. =, 55	direct	10430 Mar 06 01:56	3° ¥ 55'18	
direct	10429 Mar 22 02:47	19°) 23'42		morning max el	10430 Mar 12 17:48	7° ∺ 31'19	18°42'45
morning max el	10429 Mar 29 08:40	23°) 24'51	19°34'33	desc. node	10430 Mar 28 21:23	0° Υ '00'07	10 12 13
	10429 Apr 03 23:25	25 γ (2431	.,	acce. node	10430 Mar 28 21:21	0° Υ	
greatest brilliancy	10429 Apr 11 01:02	9° Υ 56'41	-0.7m	morning set	10430 Apr 03 07:19	8° Υ 27'37	
desc. node	10429 Apr 11 00:38	9° Υ 55'13	-		10430 Apr 17 01:53	0°8	
	r				r ,	_	

inferior conj

morning rise

asc. node

minimum elong

10431 Feb 08 23:47

10431 Feb 09 00:19

10431 Feb 09 22:38

10431 Feb 15 04:01

24°≈34'47 -0°18'52

0°18'18

24°**≈**33'15

23°≈29'54

18°≈59'22

minimum elong

asc. node

direct

morning rise

10432 Jan 23 14:28

10432 Jan 27 19:47

10432 Jan 30 03:55

10432 Feb 01 14:47

8°**≈**07'22

4°≈14'10

2°≈53'43 2°≈23'41 1°24'37

morning max el	10432 Feb 08 01:53	5°≈44'29	17°49'28		10433 Jan 29 11:12	0°≈	
. ,	10432 Feb 24 04:31	0°) {		morning set	10433 Feb 06 13:39	14°≈05'22	
morning set	10432 Feb 24 19:26	1° ¥ 03'28 10° ¥ 52'36		4 4-	10433 Feb 15 14:23	0° \ 1° \ 31'30	
desc. node	10432 Mar 01 14:54	10° π 32'30		desc. node	10433 Feb 16 11:43	1-π3130	
superior conj	10432 Mar 08 19:36	22°) 43′36	-0°51'54	superior conj	10433 Feb 17 18:03	3°) (40'48	-0°09'34
minimum elong	10432 Mar 08 13:58	22°) €20'47	0°51'00	minimum elong	10433 Feb 17 17:10	3°) 37′02	0°09'09
_	10432 Mar 13 08:26	0° Y		behind sun begin	10433 Feb 17 09:57	3°) €06'20	
max. Earth dist.	10432 Mar 14 04:24	1° Y 19'12	1.44881 AU	behind sun end	10433 Feb 18 00:24	4°){ 07'41	
evening rise	10432 Mar 24 12:29	17° Y ′24'53		max. Earth dist.	10433 Feb 24 20:13	15°) €26'18	1.43526 AU
	10432 Apr 01 19:36	0° 8		evening rise	10433 Mar 04 03:33	27° ∺ 02'05	
evening max el	10432 Apr 21 11:01	26° 8 41'11	20°22'29		10433 Mar 06 01:31	0 ° Υ	
asc. node	10432 Apr 24 17:50	29° 8 32'17			10433 Mar 26 16:08	9° 8	
	10432 Apr 25 10:39	Π °0		evening max el	10433 Apr 04 08:09	10° 8 24'43	21°33'28
retrograde	10432 Apr 29 09:44	1° Ⅱ 17'44		asc. node	10433 Apr 11 15:02	15° 8 28'25	
evening set	10432 May 03 09:18	29° 8 46'27		retrograde	10433 Apr 13 08:02	15° 8 42'45	
	10432 May 03 01:58	30° ₹ 8		evening set	10433 Apr 17 17:46	13° 8 56'06	
inferior conj	10432 May 08 16:27	23° 8 41'03	3°12'56	inferior conj	10433 Apr 23 00:38	7° 8 39'44	
minimum elong	10432 May 08 15:29	23° 8 44'22	3°12'28	minimum elong	10433 Apr 22 22:54	7° 8 45'46	
min. Earth dist.	10432 May 09 10:08	22° 8 40'31	0.67942 AU	min. Earth dist.	10433 Apr 23 05:09	7° 8 24'00	0.68509 AU
morning rise	10432 May 13 21:24	17° 8 22'51		morning rise	10433 Apr 28 03:49	1° 8 25'46	
direct desc. node	10432 May 19 11:55	14° 8 53'22 19° 8 35'44		direct	10433 Apr 30 04:38	30° ₹Υ 29° Υ 13'59	
morning max el	10432 May 28 15:33 10432 May 30 19:50	21° 8 40'48	24°22'33	direct	10433 May 03 05:07 10433 May 06 11:15	0° 8	
morning max er	10432 May 30 19.30	0° Π	24 22 33	morning max el	10433 May 13 06:08	5° 8 11'05	22°52'36
	10432 Jun 27 15:57	0° ©		desc. node	10433 May 15 12:28	7° 8 35'33	22 32 30
morning set	10432 Jul 05 12:27	13° © 09'43		desc. flode	10433 Jun 01 08:08	0°Ⅱ	
max. Earth dist.	10432 Jul 09 04:01	19°937'23	1.37781 AU	morning set	10433 Jun 16 13:24	23° ∏ 45'51	
max. Dartii dist.	10432 Jul 14 18:30	0°Ω	1.57701710	morning set	10433 Jun 20 06:39	0°95	
		* 00		max. Earth dist.	10433 Jun 21 00:52	1° © 17'43	1.40074 AU
superior conj	10432 Jul 16 05:06	2° Ω 45'30	-0°51'11				
minimum elong	10432 Jul 16 08:28	3° Ω 01'42	0°51'01	superior conj	10433 Jun 28 19:35	15° © 03'06	-1°23'51
asc. node	10432 Jul 21 16:52	13° Ω 31′08		minimum elong	10433 Jun 29 01:09	15° © 28'31	1°23'34
evening rise	10432 Jul 24 22:01	19° Ω 54'45			10433 Jul 06 19:15	0 $^{\circ}\Omega$	
	10432 Jul 30 02:50	0° ™		evening rise	10433 Jul 08 14:51	3° Ω 27'45	
evening max el	10432 Aug 10 12:14	17° m 00'13	19°10'37	asc. node	10433 Jul 08 13:50	3° £ 22′54	
retrograde	10432 Aug 19 14:13	21°My31'14		evening max el	10433 Jul 24 15:37	29° Ω 16'46	18°29'06
evening set	10432 Aug 21 10:40	21°Mp20'45			10433 Jul 25 09:57	0° ™	
desc. node	10432 Aug 24 14:11	20° Mp 19'16		retrograde	10433 Aug 01 08:58	3° m 08'53	
inferior conj	10432 Aug 29 22:36	17° m 09'19		evening set	10433 Aug 03 10:55	2° m 52'53	
minimum elong	10432 Aug 29 18:13	17° Mp 16'42			10433 Aug 09 00:11	30°R€	
min. Earth dist.	10432 Sep 01 16:55	•	0.56041 AU	inferior conj	10433 Aug 11 03:41	28° Ω 21'54	
morning rise	10432 Sep 06 22:49	12° Mp 27'00		minimum elong	10433 Aug 11 03:54	28° Ω 21'30	
direct	10432 Sep 12 05:07	11° Mp 22'54 18° Mp 34'53	25920114	transit middle transit begin	10433 Aug 11 03:54	28° Ω 21'30 28° Ω 28'07	0~05.30
morning max el	10432 Sep 26 08:37 10432 Oct 05 22:12	0° ⊽	23 39 14	transit degiii transit end	10433 Aug 11 00:32 10433 Aug 11 07:15	28° Ω 14'52	
asc. node	10432 Oct 03 22.12 10432 Oct 17 17:20	0 <u>≈</u> 19° ≏ 48'13		desc. node	10433 Aug 11 07.13	28° Ω 06'38	
asc. node	10432 Oct 17 17:20 10432 Oct 22 18:09	0°M		min. Earth dist.	10433 Aug 14 11:19	25° Ω 46'09	0.57887 AU
morning set	10432 Oct 23 17:52	2°M05'59		morning rise	10433 Aug 18 17:20	23° Ω 02'49	0.57007110
				direct	10433 Aug 24 17:25	21° Ω 30'27	
superior conj	10432 Oct 30 13:45	17° M 04'14	1°36'30	morning max el	10433 Sep 08 01:48	29° Ω 08'01	27°00'08
minimum elong	10432 Oct 30 12:37			Č	10433 Sep 08 22:43	0° m)	
max. Earth dist.	10432 Oct 31 18:43	19° M 43'57	1.31974 AU		10433 Sep 29 17:43	0∘ ⊽	
	10432 Nov 05 12:45	0° ∡		asc. node	10433 Oct 04 14:12	9° ₽ 21'02	
evening rise	10432 Nov 06 15:21	2° ∡ 19'14		morning set	10433 Oct 08 03:13	16° ≏ 41'05	
desc. node	10432 Nov 20 12:01	28° ₹ 04'24			10433 Oct 14 05:22	0° M	
	10432 Nov 21 16:45	0° ට					
evening max el	10432 Dec 08 22:37	22° る 13'28	27°26'17	superior conj	10433 Oct 15 01:27	1°M51'50	
retrograde	10432 Dec 22 19:06	29° පි 30'24		minimum elong	10433 Oct 14 23:34	1°M41'22	
evening set	10432 Dec 29 19:42	27° る 10'44		max. Earth dist.	10433 Oct 15 03:31		1.31509 AU
min. Earth dist.	10433 Jan 02 12:44		0.62033 AU	evening rise	10433 Oct 21 20:47	16° ™ 46′22	
inferior conj	10433 Jan 05 11:57	21°る31'26			10433 Oct 28 09:57	0° ⊼ ¹	
minimum elong	10433 Jan 05 17:17	21° る 19'05	2°37'12	desc. node	10433 Nov 07 09:11	17° ₹ 07'58	
morning rise	10433 Jan 12 17:22	16° る 28'18		avani: 1	10433 Nov 16 23:36	0°る 4° る 18'02	26051120
asc. node	10433 Jan 13 16:55	16° る 13'24		evening max el	10433 Nov 21 02:28	4°る18'03	20-31-38
direct morning max el	10433 Jan 14 22:39 10433 Jan 21 18:54	16° පි 06'34 19° පි 35'02	17°40'00	retrograde evening set	10433 Dec 05 00:47 10433 Dec 11 20:15	11°る27'02 9°る28'51	
morning max er	10433 Jan 21 10.34	19 033 02	1 / 77 07	evening set	10 1 33 Dec 11 20.13	9 U 2831	

min. Earth dist.	10433 Dec 15 16:52	6° る 50'28	0.59930 AU	evening set	10434 Nov 22 23:57	21° х ¹04'03	
inferior conj	10433 Dec 13 10.32 10433 Dec 18 20:58	4° る 16'43		min. Earth dist.	10434 Nov 27 10:57	18° х 27'39	0.57861 AU
minimum elong	10433 Dec 19 04:31	4°る01'26		inferior conj	10434 Nov 30 11:25	16° × 27'37'	
minimum ciong	10433 Dec 25 08:28	30°R. ₹	3 31 43	minimum elong	10434 Nov 30 18:56	16° × 20 44	
morning rise	10433 Dec 26 15:26	29° × 733'59		morning rise	10434 Dec 08 16:18	12°×700'32	1 30 13
direct	10433 Dec 28 18:34	29° х 16'54		direct	10434 Dec 10 22:19	11° ×7 44'40	
asc. node	10433 Dec 31 14:02	29° х 48'03		asc. node	10434 Dec 18 11:06	14° ₹ 755'54	
	10434 Jan 01 01:51	0°ප		morning max el	10434 Dec 19 13:22		18°47'08
morning max el	10434 Jan 05 07:58	3°₹02'04	18°07'46		10434 Dec 29 10:52	0°ප	
morning set	10434 Jan 20 23:41	27° ප් 51'07		morning set	10435 Jan 04 20:40	12° ට 06'37	
Ü	10434 Jan 22 03:12	0° ≈		Ü			
				superior conj	10435 Jan 13 11:02	28° පි 46'20	0°57'33
superior conj	10434 Jan 30 16:35	15° ≈ 45'29	0°27'52	minimum elong	10435 Jan 13 14:08	29° ට 00'57	0°57'34
minimum elong	10434 Jan 30 18:41	15° ≈ 54'52	0°27'55		10435 Jan 14 02:40	0° ≈	
desc. node	10434 Feb 03 08:31	22° ≈ 13'22		max. Earth dist.	10435 Jan 20 15:09	11° ≈ 52'39	1.39526 AU
max. Earth dist.	10434 Feb 07 07:34	28° ≈ 59'27	1.41671 AU	desc. node	10435 Jan 21 05:22	12° ≈ 55′05	
	10434 Feb 07 22:01	0° ∀		evening rise	10435 Jan 24 14:15	18° ≈ 43'29	
evening rise	10434 Feb 12 10:17	7°) €24'30			10435 Jan 31 11:30	0°)	
	10434 Feb 27 05:06	0° Y			10435 Feb 21 13:02	0° Υ	
evening max el	10434 Mar 18 00:53	24° Y 10'24	22°52'03	evening max el	10435 Feb 28 15:04	7° Ƴ 59'03	24°12'15
	10434 Mar 26 16:26	9° 8		retrograde	10435 Mar 11 21:04	14° Ƴ 34'59	
retrograde	10434 Mar 28 04:13	0° 8 10'04		asc. node	10435 Mar 16 09:30	13° Y 00'26	
asc. node	10434 Mar 29 12:16	0° 8 01'25		evening set	10435 Mar 17 06:04	12° Y 20′05	
	10434 Mar 29 14:46	30° ŖƳ		min. Earth dist.	10435 Mar 21 22:01	6° Ƴ 58'16	0.68317 AU
evening set	10434 Apr 02 01:12	28° Y '08'36		inferior conj	10435 Mar 22 17:56	5° Y 51′03	1°54'50
inferior conj	10434 Apr 07 09:45	21° Y 44'09	2°30'25	minimum elong	10435 Mar 22 15:48	5° Ƴ 58'14	1°54'09
minimum elong	10434 Apr 07 07:37	21° Y 51'35	2°29'44		10435 Mar 27 20:22	30° ₹ ₩	
min. Earth dist.	10434 Apr 07 01:51	22° Y 11'34	0.68629 AU	morning rise	10435 Mar 28 01:37	29°) 49′52	
morning rise	10434 Apr 12 13:53	15° Ƴ 35'54		direct	10435 Apr 01 00:24	28° ∺ 21′08	
direct	10434 Apr 17 01:42	13° Ƴ 45'14			10435 Apr 05 12:59	0° Υ	
morning max el	10434 Apr 25 20:20		21°26'44	morning max el	10435 Apr 08 17:34	2° Y 41'47	20°11'26
desc. node	10434 May 02 09:19	26° Y 25'27		desc. node	10435 Apr 19 06:06	15° Y 51'54	
	10434 May 05 02:31	0° 8			10435 Apr 28 21:32	0° 8	
	10434 May 25 11:33	0°II		morning set	10435 May 06 13:41	11° 8 41'32	
morning set	10434 May 27 11:40	3° Ⅱ 09'15		max. Earth dist.	10435 May 16 12:21	27° 8 17'54	1.44014 AU
max. Earth dist.	10434 Jun 03 02:50	13° Ⅱ 51′02	1.42244 AU		10435 May 18 04:45	Π °0	
superior conj	10434 Jun 10 13:58	26° Ⅱ 25'37	-1°52'04	superior conj	10435 May 22 08:33	6° Ⅱ 45'44	-2°09'59
minimum elong	10434 Jun 10 20:19	26° I 53'04		minimum elong	10435 May 22 12:07	7° Ⅱ 00'21	
mmmum viong	10434 Jun 12 15:19	0°9	1 02 00	evening rise	10435 Jun 04 05:32	28° I [31'19	2 10 19
evening rise	10434 Jun 21 18:54	16°523'27		evening rise	10435 Jun 05 02:03	0ಂಣ	
asc. node	10434 Jun 25 10:48	23°901'15		asc. node	10435 Jun 12 07:49	12° © 21'06	
	10434 Jun 29 10:26	0°N		evening max el	10435 Jun 21 15:22	25°520'22	18°05'46
evening max el	10434 Jul 08 01:56	12° Ω 06'36	18°07'48	retrograde	10435 Jun 28 01:22	28°5540'47	
retrograde	10434 Jul 14 22:00	15° Ω 35'12		evening set	10435 Jun 30 18:52	28° © 03'17	
evening set	10434 Jul 17 07:40	15° Ω 09'49		inferior conj	10435 Jul 07 02:02	22°552'22	2°24'51
inferior conj	10434 Jul 24 05:55	10° Ω 18′04	1°28'13	minimum elong	10435 Jul 07 04:45	22°545'12	2°23'42
minimum elong	10434 Jul 24 08:23	10° Ω 12'24	1°27'00	min. Earth dist.	10435 Jul 09 23:22	19°951'43	0.62356 AU
min. Earth dist.	10434 Jul 27 12:52	7° Ω 18'19	0.60099 AU	morning rise	10435 Jul 13 12:39	16°5544'34	
desc. node	10434 Jul 29 08:37	5° Ω 48'30		desc. node	10435 Jul 16 05:46	15° © 09'57	
morning rise	10434 Jul 31 06:09	4° Ω 29'32		direct	10435 Jul 20 05:38	14°518'46	
direct	10434 Aug 06 18:17	2° £ 27′52		morning max el	10435 Aug 03 08:24	22° © 20'55	27°55'43
morning max el							
	10434 Aug 21 02:00	10° Ω 21'44	27°47'14		10435 Aug 10 02:00	$0 { m ^{\circ}} \Omega$	
	10434 Aug 21 02:00 10434 Sep 05 07:53	10° Ω 21'44 0° m	27°47'14		10435 Aug 10 02:00 10435 Aug 29 12:38	0° Ω 0° m	
asc. node	•		27°47'14	morning set			
asc. node	10434 Sep 05 07:53	0° m	27°47'14	morning set asc. node	10435 Aug 29 12:38	0° m	
morning set	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46	0° My 29° My 09'26 0° Ω 1° Ω 02'10		-	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14	0° m/ 15° m/03'30 19° m/07'55 26° m/25'40	1.32038 AU
	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49	0° My 29° My 09'26 0° <u>Ω</u>	27°47'14 1.31524 AU	asc. node	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50	0° my 15° my 03'30 19° my 07'55	1.32038 AU
morning set max. Earth dist.	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39	0° My 29° My 09'26 0° Ω 1° Ω 02'10 14° Ω 20'52	1.31524 AU	asc. node max. Earth dist.	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41	0° m, 15° m,03'30 19° m,07'55 26° m,25'40 0° <u>0</u>	
morning set max. Earth dist. superior conj	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48	0° M 29° M 09'26 0° Ω 1° Ω 02'10 14° Ω 20'52 16° Ω 34'39	1.31524 AU 1°12'50	asc. node max. Earth dist. superior conj	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55	0° m/ 15° m/03'30 19° m/07'55 26° m/25'40 0° Ω 1° Ω06'52	0°53'10
morning set max. Earth dist.	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48 10434 Sep 29 10:34	0° m 29° m 09'26 0° Ω 1° Ω02'10 14° Ω20'52 16° Ω34'39 16° Ω22'16	1.31524 AU	asc. node max. Earth dist. superior conj minimum elong	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55 10435 Sep 13 19:50	0° my 15° my 03'30 19° my 07'55 26° my 25'40 0° Ω 1° Ω 06'52 0° Ω 55'27	
morning set max. Earth dist. superior conj minimum elong	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48 10434 Sep 29 10:34 10434 Oct 05 14:51	0° M 29° M 09'26 0° Ω 1° Ω02'10 14° Ω20'52 16° Ω34'39 16° Ω22'16 0° M	1.31524 AU 1°12'50	asc. node max. Earth dist. superior conj	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55 10435 Sep 13 19:50 10435 Sep 20 17:18	0° m 15° m 03'30 19° m 07'55 26° m 25'40 0° Ω 1° Ω 06'52 0° Ω 55'27 16° Ω 00'07	0°53'10
morning set max. Earth dist. superior conj	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48 10434 Sep 29 10:34 10434 Oct 05 14:51 10434 Oct 06 06:05	0° M 29° M 09'26 0° Ω 1° Ω02'10 14° Ω20'52 16° Ω34'39 16° Ω22'16 0° M 1° M 22'03	1.31524 AU 1°12'50	asc. node max. Earth dist. superior conj minimum elong evening rise	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55 10435 Sep 13 19:50 10435 Sep 20 17:18 10435 Sep 27 14:00	0° നു 15° നു 03'30 19° നു 07'55 26° നു 25'40 0° ഫ 1° ഫ06'52 0° ഫ55'27 16° ഫ00'07 0° സ	0°53'10
morning set max. Earth dist. superior conj minimum elong evening rise	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48 10434 Sep 29 10:34 10434 Oct 05 14:51 10434 Oct 06 06:05 10434 Oct 21 14:10	0° m 29° m 09'26 0° Ω 1° Ω02'10 14° Ω20'52 16° Ω34'39 16° Ω22'16 0° m 1° m 22'03 0° √	1.31524 AU 1°12'50	asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55 10435 Sep 13 19:50 10435 Sep 20 17:18 10435 Sep 27 14:00 10435 Oct 12 03:36	0° m 15° m 03'30 19° m 07'55 26° m 25'40 0° Ω 1° Ω 06'52 0° Ω 55'27 16° Ω 00'07 0° M 22° M 27'58	0°53'10 0°52'44
morning set max. Earth dist. superior conj minimum elong evening rise desc. node	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48 10434 Sep 29 10:34 10434 Oct 05 14:51 10434 Oct 06 06:05 10434 Oct 21 14:10 10434 Oct 25 06:22	0° m 29° m 09'26 0° Ω 1° Ω02'10 14° Ω20'52 16° Ω34'39 16° Ω22'16 0° m 1° m 22'03 0° ズ 5° ズ 22'24	1.31524 AU 1°12'50	asc. node max. Earth dist. superior conj minimum elong evening rise	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55 10435 Sep 13 19:50 10435 Sep 20 17:18 10435 Sep 27 14:00 10435 Oct 12 03:36 10435 Oct 15 10:52	0° നു 15° നു 03'30 19° നു 07'55 26° നു 25'40 0° ഫ 1° ഫ06'52 0° ഫ55'27 16° ഫ00'07 0° സ	0°53'10
morning set max. Earth dist. superior conj minimum elong evening rise	10434 Sep 05 07:53 10434 Sep 21 11:02 10434 Sep 21 20:49 10434 Sep 22 08:46 10434 Sep 28 12:39 10434 Sep 29 12:48 10434 Sep 29 10:34 10434 Oct 05 14:51 10434 Oct 06 06:05 10434 Oct 21 14:10	0° m 29° m 09'26 0° Ω 1° Ω02'10 14° Ω20'52 16° Ω34'39 16° Ω22'16 0° m 1° m 22'03 0° √	1.31524 AU 1°12'50 1°12'36	asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	10435 Aug 29 12:38 10435 Sep 06 08:24 10435 Sep 08 07:50 10435 Sep 11 18:14 10435 Sep 13 09:41 10435 Sep 13 21:55 10435 Sep 13 19:50 10435 Sep 20 17:18 10435 Sep 27 14:00 10435 Oct 12 03:36	0° m 15° m 03'30 19° m 07'55 26° m 25'40 0° Ω 1° Ω 06'52 0° Ω 55'27 16° Ω 00'07 0° M 22° M 27'58 25° M 57'48	0°53'10 0°52'44

avanina aat	10425 Nov. 02 02:07	1° ∡ 753'54		daga mada	10426 San 29 00:50	7° M 59'29	
evening set	10435 Nov 03 03:07 10435 Nov 07 04:48	30°RM		desc. node	10436 Sep 28 00:50	12°M33'43	
min. Earth dist.	10435 Nov 08 21:35	29°ML00'35	0.56088 AU	retrograde evening set	10436 Oct 08 22:23 10436 Oct 12 10:27	12 11633 43 12°M06'43	
inferior conj	10435 Nov 11 05:12	27°MJ35'07		min. Earth dist.	10436 Oct 20 05:13	8°M38'24	0.54925 AU
minimum elong	10435 Nov 11 03:12	27°M30'30		inferior conj	10436 Oct 20 05:13	8°M04'27	
morning rise	10435 Nov 19 15:22	23°M36'12	3 4037	minimum elong	10436 Oct 21 00:02	8°M11'43	5°33'57
direct	10435 Nov 19 13.22 10435 Nov 22 06:29	23°ML18'10		morning rise	10436 Oct 21 00.02	4°M16'53	3 33 37
morning max el	10435 Nov 22 06.29 10435 Dec 02 07:19	28°ML03'56	19°49'02	direct	10436 Nov 01 21:07	3°M53'02	
morning max er	10435 Dec 02 07.19 10435 Dec 04 04:04	28 IICU3 30 0° ⊀	19 49 02		10436 Nov 13 11:44	9°M21'36	21°13'16
		0 x . 1° x 22'17		morning max el			21 13 10
asc. node	10435 Dec 05 08:06	•		asc. node	10436 Nov 21 05:03	18°M.51'31 0° ⊀	
morning set	10435 Dec 20 00:52	26°♂40'04 0°る			10436 Nov 27 17:06	11° x ⁷ 23'41	
	10435 Dec 21 16:14	0.0		morning set	10436 Dec 03 09:37	11 × 23 41	
superior conj	10435 Dec 27 20:27	12° る 28'38	1°19'00	superior conj	10436 Dec 10 16:39	26° ∡ ¹40'16	1°32'38
minimum elong	10435 Dec 27 23:14	12° る 42'25	1°19'11	minimum elong	10436 Dec 10 18:26	26° × 49'31	1°33'01
max. Earth dist.	10436 Jan 02 21:29	24° පි 07'31	1.37327 AU	minimum ciong	10436 Dec 12 07:29	0°る	1 33 01
max. Lattii dist.	10436 Jan 06 02:27	0°≈	1.57527 110	max. Earth dist.	10436 Dec 15 07:13	6° る 00'43	1.35317 AU
evening rise	10436 Jan 06 14:53	0°≈55'40		evening rise	10436 Dec 19 09:09	13°る53'17	1.55517 AC
desc. node	10436 Jan 08 02:15	3°≈32'17		desc. node	10436 Dec 24 23:13	13 3 3317 24° る 00'48	
desc. Hode	10436 Jan 24 16:25	0° \		desc. Hode	10436 Dec 28 11:32	24 000 48 0°≈	
avanina may al		21° X 48'30	25°27'28			0 ∞ 0° ∺	
evening max el	10436 Feb 11 04:18 10436 Feb 23 09:35	28°\(\frac{1}{35}\)	23 21 28		10437 Jan 18 12:37	5°) 34'16	26920122
retrograde				evening max el	10437 Jan 23 17:38	12° ¥ 52'58	26°30'32
evening set	10436 Feb 29 06:46	26° ¥ 25'42		retrograde	10437 Feb 05 16:59		
asc. node	10436 Mar 02 06:43	24°\(\frac{1}{2}\)28'58	0.67506.411	evening set	10437 Feb 12 01:33	10°) € 20′20	0.66460.411
min. Earth dist.	10436 Mar 04 15:30	21°) 38'52		min. Earth dist.	10437 Feb 16 04:10	6°) €07'49	0.66460 AU
inferior conj	10436 Mar 05 23:16	19° ¥ 56'40	1°10'05	asc. node	10437 Feb 17 03:55	4°) ₹56'44	
minimum elong	10436 Mar 05 21:41	20°) €01'47	1°09'37	inferior conj	10437 Feb 17 23:45	3°) ₹56'48	0°16'13
morning rise	10436 Mar 11 13:02	14°) €03'58		minimum elong	10437 Feb 17 23:19	3° ¥ 58′07	0°16'18
direct	10436 Mar 14 23:45	12°) 55′48			10437 Feb 21 13:46	30° R ≈	
morning max el	10436 Mar 21 22:43	16°) 44′29	19°10'30	morning rise	10437 Feb 23 22:03	28° ≈ 14′25	
	10436 Apr 01 06:12	0° Υ		direct	10437 Feb 26 22:05	27° ≈ 23'57	
greatest brilliancy	10436 Apr 04 00:05	4° Υ 04'11	-0.7m		10437 Mar 04 11:35	0° ∀	
desc. node	10436 Apr 05 02:52	5° Ƴ 44'55		morning max el	10437 Mar 05 10:32	0° ¥ 53'15	18°25'41
morning set	10436 Apr 14 15:31	20° Y 21′03		desc. node	10437 Mar 22 23:38	25°) 57′17	
	10436 Apr 20 20:54	9° 8		morning set	10437 Mar 25 14:45	0° Y 07'44	
max. Earth dist.	10436 Apr 28 03:41	11° 8 22'54	1.45183 AU		10437 Mar 25 12:48	0° Ƴ	
	1042634 01 04 05	1.00	2011104		10427 4 10 10 41	2500000120	1051150
superior conj	10436 May 01 04:05	16° 8 08'27		superior conj	10437 Apr 10 10:41	25° Y ′03'30	
minimum elong	10436 May 01 00:44	15° 8 55'14	2°11'19	minimum elong	10437 Apr 10 01:37	24° Y ′28′04	
	10436 May 09 19:43	Π $^{\circ}$ 0		max. Earth dist.	10437 Apr 10 22:16	25° Y '48'46	1.45648 AU
evening rise	10436 May 15 18:07	9° Ⅱ 41'47			10437 Apr 13 14:34	0°8	
	10436 May 28 08:23	0ಂಣ		evening rise	10437 Apr 26 06:43	19° 8 53'11	
asc. node	10436 May 29 04:52	1° © 15'49			10437 May 02 16:42	Π °0	
evening max el	10436 Jun 04 04:42	8°949'46	18°22'16	greatest brilliancy	10437 May 05 22:55	5° Ⅱ 05′21	-0.8m
retrograde	10436 Jun 10 14:33	12° © 16'05		asc. node	10437 May 16 01:59	19° Ⅱ 36'16	
evening set	10436 Jun 13 15:48	11° © 24'41		evening max el	10437 May 18 15:15	22° Ⅱ 27'32	18°56'27
inferior conj	10436 Jun 19 11:52	5° © 56'37	2°59'12	retrograde	10437 May 25 09:34	26° Ⅱ 12'24	
minimum elong	10436 Jun 19 13:48	5° © 50'59	2°58'24	evening set	10437 May 28 18:57	25° Ⅱ 05'56	
min. Earth dist.	10436 Jun 21 19:25	3° © 15'06	0.64415 AU	inferior conj	10437 Jun 03 07:36	19° Ⅲ 22'20	3°15'33
morning rise	10436 Jun 25 10:37	29° Ⅱ 38'57		minimum elong	10437 Jun 03 08:22	19° Ⅱ 19'56	3°15'01
	10436 Jun 25 00:33	30° Ŗ Ⅱ		min. Earth dist.	10437 Jun 05 00:09	17° Ⅱ 14'15	0.66131 AU
direct	10436 Jul 02 01:54	26° Ⅱ 58'19		morning rise	10437 Jun 08 21:09	13° Ⅱ 01'34	
desc. node	10436 Jul 02 02:52	26° Ⅱ 58′20		direct	10437 Jun 15 05:31	10° Ⅱ 17'20	
	10436 Jul 10 00:16	0°ම		desc. node	10437 Jun 18 23:56	11° Ⅱ 05'58	
morning max el	10436 Jul 15 18:24	4° © 58'34	27°27'52	morning max el	10437 Jun 28 05:08	18° Ⅲ 01′20	26°30'24
	10436 Aug 03 17:42	$0^{\circ}\Omega$		-	10437 Jul 08 06:26	0°€	
morning set	10436 Aug 19 23:42	28° £ 39′02			10437 Jul 27 16:58	$0^{\circ}\Omega$	
Č	10436 Aug 20 16:07	0° mp		morning set	10437 Aug 03 03:23	11° Ω 39'20	
max. Earth dist.	10436 Aug 24 16:21	8° mp 08'23	1.33055 AU	max. Earth dist.	10437 Aug 07 04:06	19° Ω 25'18	1.34570 AU
asc. node	10436 Aug 25 04:39	9° m, 12'25					
	-	•		superior conj	10437 Aug 12 01:17	29° Ω 17'15	-0°00'05
superior conj	10436 Aug 28 02:53	15° m 23'24	0°28'40	minimum elong	10437 Aug 12 01:18	29° Ω 17'19	0°00'23
minimum elong	10436 Aug 28 01:31	15° m 16'09	0°28'13	behind sun begin	10437 Aug 11 19:27	28° Ω 47'08	
	10436 Sep 03 21:52	0∘ ⊽		behind sun end	10437 Aug 12 07:09	29° Ω 47'33	
evening rise	10436 Sep 04 04:34	0° £ 35'39		asc. node	10437 Aug 12 01:30	29° Ω 18′22	
	10436 Sep 20 15:34	0°M₊			10437 Aug 12 09:33	0° m/y	
evening max el	10436 Sep 25 21:57	6°ML04'37	22°31'21	evening rise	10437 Aug 19 13:54	15° m 02'24	
Č				Č	Č	-•	

	10437 Aug 27 03:40	0∘ ⊽			10438 Aug 04 04:04	0° m)	
evening max el	10437 Sep 07 17:16	16° ≏ 29'26	20°58'43	evening max el	10438 Aug 21 02:01	27° m/36'19	19°43'57
desc. node	10437 Sep 14 22:07	21° ≏ 26'44		C	10438 Aug 23 21:02	0∘ ⊽	
retrograde	10437 Sep 19 10:05	22° ≏ 17'37		retrograde	10438 Aug 31 02:10	2° ≏ 34'12	
evening set	10437 Sep 21 17:45	22° ≏ 04'52		evening set	10438 Sep 01 22:55	2° ≏ 24'38	
inferior conj	10437 Sep 30 21:14	18° ჲ 09'27	-4°31'02	desc. node	10438 Sep 01 19:24	2° ≏ 26'04	
minimum elong	10437 Sep 30 11:24	18° ≏ 23'23	4°28'19		10438 Sep 08 02:34	30°R.Mp	
min. Earth dist.	10437 Oct 01 13:12	17° ≙ 46'49	0.54628 AU	inferior conj	10438 Sep 10 19:52	28° m $22'10$	-2°45'59
morning rise	10437 Oct 09 05:16	14° ≏ 14'49		minimum elong	10438 Sep 10 12:28	28° m 33'39	2°43'20
direct	10437 Oct 13 05:14	13° ≏ 40′27		min. Earth dist.	10438 Sep 12 23:31	27° Mp 02'12	0.55284 AU
morning max el	10437 Oct 26 04:21	19° ≙ 53'46	22°54'55	morning rise	10438 Sep 19 00:09	24° m 01'14	
	10437 Nov 03 13:59	0°M₊		direct	10438 Sep 23 19:39	23° m 10'08	
asc. node	10437 Nov 08 01:58	7° IL 09'13		morning max el	10438 Oct 07 15:39	0° ჲ 02'24	24°41'59
morning set	10437 Nov 17 20:48	26° ™ 11'33			10438 Oct 07 14:38	0∘ ⊽	
	10437 Nov 19 15:37	0° ∡ ¹		asc. node	10438 Oct 25 22:51	26° ₾ 03'32	
	1042731 24 20 17	110 711124	1020100		10438 Oct 28 00:21	0°M	
superior conj	10437 Nov 24 20:17	11° х 11'34	1°39'08	morning set	10438 Nov 02 08:35	10° ™ 58'30	
minimum elong	10437 Nov 24 20:52	11° 🗷 14'41	1°39'36		10420 N 00 04-42	250 m 54120	1920111
max. Earth dist.	10437 Nov 28 00:34	17° х 54'58 27° х 27'01	1.33665 AU	superior conj	10438 Nov 09 04:43 10438 Nov 09 04:09	25°M54'20 25°M51'13	1°39'11 1°39'34
evening rise	10437 Dec 02 17:20 10437 Dec 04 00:42	27 x ·2701 0°る		minimum elong max. Earth dist.	10438 Nov 11 02:01	0° x 01'20	1.32458 AU
desc. node	10437 Dec 04 00.42 10437 Dec 11 20:15	0 8 14° 8 15'44		max. Earth dist.	10438 Nov 11 02:01	0° x ¹0120	1.32436 AU
desc. Hode	10437 Dec 11 20:13	0°≈		evening rise	10438 Nov 16 11:59	11° х 27'34	
evening max el	10438 Jan 06 06:59	19°≈08'23	27°14'03	evening rise	10438 Nov 26 06:42	0°る	
retrograde	10438 Jan 19 18:23	26°≈31'27	27 1103	desc. node	10438 Nov 28 17:20	[⋄] ਹ 4°ਰ10'15	
evening set	10438 Jan 26 12:23	23° ≈ 57'52			10438 Dec 17 11:36	0° ≈	
min. Earth dist.	10438 Jan 30 09:54	20°≈18'25	0.64972 AU	evening max el	10438 Dec 19 18:38	2° ≈ 17'40	27°30'58
inferior conj	10438 Feb 01 17:06	17° ≈ 46′25		retrograde	10439 Jan 02 12:41	9° ≈ 37'20	
minimum elong	10438 Feb 01 18:29	17° ≈ 42'36	0°45'30	evening set	10439 Jan 09 12:35	7° ≈ 10'14	
asc. node	10438 Feb 04 01:07	15° ≈ 18'13		min. Earth dist.	10439 Jan 13 06:31	4° ≈ 00'46	0.63175 AU
morning rise	10438 Feb 08 02:10	12° ≈ 16'42		inferior conj	10439 Jan 16 00:29	1° ≈ 17'40	-1°56'48
direct	10438 Feb 10 17:14	11° ≈ 40′17		minimum elong	10439 Jan 16 04:17	1° ≈ 08'13	1°54'49
morning max el	10438 Feb 17 02:44	15° ≈ 01'30	17°57'45		10439 Jan 17 08:18	30°Ŗる	
	10438 Feb 27 21:26	0°)		asc. node	10439 Jan 21 22:18	26° る 29'53	
morning set	10438 Mar 06 19:23	11° 米 22′19		morning rise	10439 Jan 22 22:08	26° る 03'44	
desc. node	10438 Mar 09 20:25	16° ¥ 23'43		direct	10439 Jan 25 06:22	25° る 37'35	
	10438 Mar 18 05:21	0° Ƴ		morning max el	10439 Jan 31 20:19	29° る 00'32	17°47'08
		••			10439 Feb 01 19:11	0° ≈	
superior conj	10438 Mar 20 22:30	4°Υ19'51		morning set	10439 Feb 17 01:43	23°≈50'48	
minimum elong	10438 Mar 20 14:16	3° Y 47'08	1°15'12	1 1	10439 Feb 20 15:02	0°) (50/05	
max. Earth dist.	10438 Mar 24 18:05	10° Υ 21'36	1.45370 AU	desc. node	10439 Feb 24 17:12	6° ¥ 59'05	
evening rise	10438 Apr 06 00:22 10438 Apr 06 09:46	29° Y 23'54 0° と			10439 Mar 01 06:25	14°) 35'14	0922140
greatest brilliancy	10438 Apr 20 05:14	20° 8 55'04	-0.6m	superior conj minimum elong	10439 Mar 01 00:25	14 X 33 14 14° X 20'47	
greatest orimancy	10438 Apr 26 16:15	0°Ⅱ	-0.0111	max. Earth dist.	10439 Mar 07 12:27	24°) 44'06	1.44380 AU
evening max el	10438 May 01 21:13	6° Ⅱ 09'43	19°46'55	max. Lartii dist.	10439 Mar 10 20:09	0° Υ	1.44500710
asc. node	10438 May 02 23:09	7° П 12'05	17 1000	evening rise	10439 Mar 16 11:53	8° Υ 47'49	
retrograde	10438 May 09 07:34	10° Ⅲ 24'21			10439 Mar 30 15:32	0°8	
evening set	10438 May 13 01:45	9° Ⅲ 02'10		evening max el	10439 Apr 14 21:33	19° 8 52'55	20°51'23
inferior conj	10438 May 18 10:09	3° Ⅱ 04'25	3°17'24	asc. node	10439 Apr 19 20:21	23° 8 49'10	
minimum elong	10438 May 18 09:45	3° Ⅱ 05'44		retrograde	10439 Apr 23 06:15	24° 8 46'05	
min. Earth dist.	10438 May 19 11:57	1° Ⅲ 38′07	0.67421 AU	evening set	10439 Apr 27 10:07	23° 8 08'05	
	10438 May 20 18:11	30° ₹ 8		inferior conj	10439 May 02 16:54	16° 8 57'51	3°07'15
morning rise	10438 May 23 17:26	26° 8 44'41		minimum elong	10439 May 02 15:34	17° 8 02'27	3°06'45
direct	10438 May 29 15:14	24° 8 07'19		min. Earth dist.	10439 May 03 04:50	16° 8 16'35	0.68248 AU
desc. node	10438 Jun 05 20:56	27° 8 05'34		morning rise	10439 May 07 20:48	10° 8 41'31	
	10438 Jun 09 06:56	Π °0		direct	10439 May 13 05:50	8° 8 19'02	
morning max el	10438 Jun 10 15:03	1° Ⅱ 18'55	25°12'31	desc. node	10439 May 23 17:52	14° 8 28'10	
	10438 Jul 02 06:38	0.22 0.22		morning max el	10439 May 24 00:36	14° 8 45'02	23°44'17
morning set	10438 Jul 16 15:20	23° © 53'43			10439 Jun 05 11:03	0°II	
F 4 F	10438 Jul 19 23:38	0°Ω	1 26520 433		10439 Jun 25 04:46	0°©	
max. Earth dist.	10438 Jul 20 05:59	0~ 3.7 29'32	1.36528 AU	morning set	10439 Jun 28 06:31	5°509'27	1 20764 411
gunorier con-	10/20 Int. 26 14:15	12° Ω 41'08	0022102	max. Earth dist.	10439 Jul 02 03:09	11°©50'25	1.38764 AU
superior conj minimum elong	10438 Jul 26 14:15 10438 Jul 26 16:16	$12^{\circ}0.41^{\circ}08$ $12^{\circ}0.51^{\circ}08$		superior conj	10439 Jul 09 14:11	25° © 26'11	-1°05'16
asc. node	10438 Jul 29 22:22	$12 \ 0.03108$ $19^{\circ} \Omega 22'00$	0 32 02	minimum elong	10439 Jul 09 14:11 10439 Jul 09 18:33	25°5946'44	1°05'02
evening rise	10438 Aug 03 19:05	19 δι 22 00 29° Ω 14'34		minimum ciong	10439 Jul 11 23:52	23 940 44 0°Ω	1 03 02
0 1 0111115 1100	1015011ug 05 17.05	-> UC17J7			10107 Jul 11 20.02	~ O C	

asc. node	10439 Jul 16 19:18	9° Ω 19'41		minimum elong	10440 Jun 21 02:52	7° 5 49'17	1°36'26
evening rise	10439 Jul 18 17:25	13°Ω04'58		evening rise	10440 Jul	26°\$24'02	1 30 20
evening rise	10439 Jul 27 21:40	0°m)		asc. node	10440 Jul 02 16:15	29°906'37	
evening max el	10439 Aug 03 23:32	9° m) 29'20	18°50'18	ase. Houe	10440 Jul 03 03:44	0°Ω	
retrograde	10439 Aug 12 10:15	13° m) 42'11	10 20 10	evening max el	10440 Jul 17 06:17	22° Ω 01'14	18°17'31
evening set	10439 Aug 14 08:34	13° m 29'48		retrograde	10440 Jul 24 13:21	25°Ω41'52	10 1, 51
desc. node	10439 Aug 19 16:38	11° Mp 06'37		evening set	10440 Jul 26 18:21	25°Ω22'22	
inferior conj	10439 Aug 22 12:32	9° mp 10'01	-0°52'40	inferior conj	10440 Aug 03 02:56	20° Ω 42'19	0°44'00
minimum elong	10439 Aug 22 10:19	9° m 13'59	0°52'01	minimum elong	10440 Aug 03 04:24	20° Ω 39'14	0°43'07
min. Earth dist.	10439 Aug 25 14:17	6° Mp 58'07	0.56764 AU	desc. node	10440 Aug 05 13:51	18° Ω 37'49	
morning rise	10439 Aug 30 08:47	4° Mp 11'55		min. Earth dist.	10440 Aug 06 11:35	17° £ 53'31	0.58800 AU
direct	10439 Sep 04 23:05	2° m 56'38		morning rise	10440 Aug 10 11:01	15° Ω 09'08	
morning max el	10439 Sep 19 05:27	10° m 19'48	26°17'16	direct	10440 Aug 16 16:46	13° Ω 24'18	
	10439 Oct 04 06:14	0∘ ⊽		morning max el	10440 Aug 31 01:53	21° Ω 10'14	27°24'49
asc. node	10439 Oct 12 19:43	15° ≏ 25'02			10440 Sep 07 18:18	0° m)	
morning set	10439 Oct 17 19:21	25° ≏ 40'02			10440 Sep 26 03:20	0∘ ⊽	
	10439 Oct 19 19:31	0°M₊		asc. node	10440 Sep 28 16:34	5° ≙ 05'25	
				morning set	10440 Oct 01 03:19	10° ≏ 10′12	
superior conj	10439 Oct 24 15:48	10°M42'24	1°33'18				
minimum elong	10439 Oct 24 14:18	10°M34'05	1°33'29	superior conj	10440 Oct 08 03:34	25° ≏ 28'44	1°21'51
max. Earth dist.	10439 Oct 25 09:15	12° M ₊19'10	1.31719 AU	minimum elong	10440 Oct 08 01:29	25° ≙ 17'09	1°21'46
evening rise	10439 Oct 31 14:13	25°M47'23		max. Earth dist.	10440 Oct 07 18:42	24° ≙ 39'25	1.31456 AU
	10439 Nov 02 15:00	0° ⊼			10440 Oct 10 04:19	0°M	
desc. node	10439 Nov 15 14:28	23° ∡ 36′00		evening rise	10440 Oct 14 21:32	10°M 18'46	
	10439 Nov 19 19:39	0°₹	25015146		10440 Oct 24 21:31	0° ⊀ ⁷	
evening max el	10439 Dec 02 02:01	14° 3 48'57	27°15'46	desc. node	10440 Nov 01 11:37	12° × 20'43	26026120
retrograde	10439 Dec 15 23:09	22° ろ 02'01		evening max el	10440 Nov 13 02:25	26° ₹ 30'56	26°26'28
evening set	10439 Dec 22 22:54	19°る50'12	0.61151.411		10440 Nov 17 07:14	0°る 3°る37'07	
min. Earth dist.	10439 Dec 26 16:30	17°る04'03 14°る22'21	0.61151 AU	retrograde	10440 Nov 27 00:41	1°る50'23	
inferior conj minimum elong	10439 Dec 29 18:38 10439 Dec 30 01:02		3°09'00	evening set	10440 Dec 03 15:06 10440 Dec 06 14:50	30°R. ₹	
morning rise	10440 Jan 06 05:44	9° る 27'36	3 09 00	min. Earth dist.	10440 Dec 06 14.30 10440 Dec 07 15:55	30 KX. 29° ∡ 15'11	0.59032 AU
direct	10440 Jan 08 09:46	9° ろ 08'09		inferior conj	10440 Dec 10 20:01	26° x 1511	
asc. node	10440 Jan 08 19:25	9° る 08'50		minimum elong	10440 Dec 11 03:58	26° × 30'32'	4°21'57
morning max el	10440 Jan 15 12:04	12°る42'14	17°54'43	morning rise	10440 Dec 18 19:28	22° х 33 23	4 21 37
morning max ci	10440 Jan 27 03:32	0°≈	17 34 43	direct	10440 Dec 20 23:05	22°×701'36	
morning set	10440 Jan 31 03:17	7°≈13'15		asc. node	10440 Dec 25 16:29	23° ×7 24'03	
morning sec	10.100411 31 03.17	,		morning max el	10440 Dec 28 22:22	25° ×7 56'21	18°21'57
superior conj	10440 Feb 10 15:26	26° ≈ 02'07	0°07'10	morning man vi	10441 Jan 01 10:14	0°ਰ	10 210,
minimum elong	10440 Feb 10 16:05	26° ≈ 04'55	0°07'24	morning set	10441 Jan 13 18:25	21° る 12'37	
behind sun begin	10440 Feb 10 08:42	25° ≈ 32'52		C	10441 Jan 18 09:06	0° ≈	
behind sun end	10440 Feb 10 23:27	26° ≈ 36'54					
desc. node	10440 Feb 11 14:01	27° ≈ 39'44		superior conj	10441 Jan 22 23:01	8° ≈ 32'23	0°41'28
	10440 Feb 12 22:44	0° ∀		minimum elong	10441 Jan 23 01:45	8° ≈ 44'53	0°41'28
max. Earth dist.	10440 Feb 18 02:48	8° ¥ 39′27	1.42787 AU	desc. node	10441 Jan 28 10:50	18° ≈ 22'01	
evening rise	10440 Feb 24 08:22	18° ¥ 41′10		max. Earth dist.	10441 Jan 30 11:59	21° ≈ 54'27	1.40771 AU
	10440 Mar 02 16:25	0° Y		evening rise	10441 Feb 03 23:45	29° ≈ 26'34	
	10440 Mar 24 09:08	0 \circ 8			10441 Feb 04 07:54	0° ∀	
evening max el	10440 Mar 27 16:32	3° 8 36'45	22°06'14		10441 Feb 24 04:23	0° Υ	
asc. node	10440 Apr 05 17:34	9° 8 11'54		evening max el	10441 Mar 10 07:44	17° Y 22'57	23°26'23
retrograde	10440 Apr 06 03:52	9° 8 12'48		retrograde	10441 Mar 20 22:55	23° Y 39'49	
evening set	10440 Apr 10 18:21	7° 8 19'27		asc. node	10441 Mar 23 14:46	23° Y 05'57	
inferior conj	10440 Apr 16 01:42	0° 8 59'07		evening set	10441 Mar 26 00:53	21° Y 32'19	
minimum elong	10440 Apr 15 23:44	1° 8 05'56	2°46'02	inferior conj	10441 Mar 31 10:38	15° Y 05′09	2°16'28
min. Earth dist.	10440 Apr 16 00:45	1° 8 02'24	0.68614 AU	minimum elong	10441 Mar 31 08:26	15° Y 12'42	2°15'46
	10440 Apr 16 18:42	30°R Y		min. Earth dist.	10441 Mar 30 21:32	15° Y 50'10	0.68537 AU
morning rise	10440 Apr 21 04:59	24° Y 47'36		morning rise	10441 Apr 05 15:56	8° Y 59'39	
direct	10440 Apr 26 00:26	22° Y 44'49	22015112	direct	10441 Apr 09 22:00	7° Y 18'31 12° Y 03'59	20°53'13
morning max el	10440 May 05 12:16	28° Y 19'14 0° ႘	22 13 12	morning max el desc. node	10441 Apr 18 05:17	12° γ '03'59 21° γ '58'18	20 33 13
desc. node	10440 May 07 02:47 10440 May 09 14:45	2° 8 51'14		desc. Hode	10441 Apr 26 11:35 10441 May 02 05:54	0° 8	
uese. Houe	10440 May 09 14:43 10440 May 29 02:48	0° Ⅱ		morning set	10441 May 02 03:34 10441 May 18 08:22	24° 8 12'37	
morning set	10440 May 29 02.48 10440 Jun 07 20:13	0 II 15°II14'57		morning set	10441 May 18 08.22 10441 May 22 00:40	24 3 12 37 0° Ⅱ	
max. Earth dist.	10440 Jun 13 02:05	23° ∏ 54'04	1.41030 AU	max. Earth dist.	10441 May 26 06:52	6° ∏ 50'02	1.43049 AU
max. Durin dist.	10440 Jun 16 16:00	0°9	1.11030710	max. Darui dist.	10111 111uy 20 00.32	0 11 30 02	1.1507) AU
	1			superior conj	10441 Jun 02 05:17	18° Ⅱ 18'31	-2°01'19
superior conj	10440 Jun 20 20:41	7°521'40	-1°36'39	minimum elong	10441 Jun 02 11:01	18° I I42'42	
1							-

	10441 Jun 09 00:18	0°©		superior conj	10442 May 13 13:31	28° 8 12'24	-2°12'51
evening rise	10441 Jun 14 02:42	9° © 01'24		minimum elong	10442 May 13 14:29	28° 8 16'20	
asc. node	10441 Jun 19 13:14	18°938'21		minimum ciong	10442 May 14 16:09	0°II	2 13 1 1
use. Houe	10441 Jun 26 14:36	0°Ω		evening rise	10442 May 27 04:21	20° I I45'03	
evening max el	10441 Jun 30 18:24	5°Ω03'04	18°04'37	8	10442 Jun 01 15:45	0°9	
retrograde	10441 Jul 07 09:03	8° Ω 26'28		asc. node	10442 Jun 06 10:16	7°5548'21	
evening set	10441 Jul 09 21:57	7° Ω 56'22		evening max el	10442 Jun 14 08:14	18° © 24'43	18°10'38
inferior conj	10441 Jul 16 13:21	2° Ω 56'32	1°55'10	retrograde	10442 Jun 20 16:56	21°5945'40	
minimum elong	10441 Jul 16 16:06	2° Ω 49'47	1°53'54	evening set	10442 Jun 23 13:47	21°502'24	
min. Earth dist.	10441 Jul 19 17:06	29° © 53'20	0.61069 AU	inferior conj	10442 Jun 29 15:47	15°5944'13	2°41'51
	10441 Jul 19 14:14	30° ℝ ∽		minimum elong	10442 Jun 29 18:15	15° © 37'25	2°40'50
morning rise	10441 Jul 23 07:39	26°\$58'20		min. Earth dist.	10442 Jul 02 07:40	12° 5 49'30	0.63271 AU
desc. node	10441 Jul 23 11:01	26°952'47		morning rise	10442 Jul 05 21:06	9° 5 31'30	
direct	10441 Jul 29 22:46	24°9545'08		desc. node	10442 Jul 10 08:10	7° © 14'36	
	10441 Aug 10 05:40	$0^{\circ}\Omega$		direct	10442 Jul 12 14:17	6°957'48	
morning max el	10441 Aug 13 05:04	2° Ω 44′28	27°55'24	morning max el	10442 Jul 26 13:05	15°900'21	27°47'53
	10441 Sep 02 06:01	0° m y			10442 Aug 07 18:06	$0^{\circ}\Omega$	
morning set	10441 Sep 15 06:38	24° m 23'58			10442 Aug 25 21:30	0° ™	
asc. node	10441 Sep 15 13:23	24° m 58'57		morning set	10442 Aug 30 03:05	8° Mp 15'22	
	10441 Sep 17 22:33	0∘ 亚		asc. node	10442 Sep 02 10:12	15° m 00'41	
max. Earth dist.	10441 Sep 21 02:36	6° £ 52'04	1.31683 AU	max. Earth dist.	10442 Sep 04 05:18	18° m 47'52	1.32410 AU
superior conj	10441 Sep 22 14:13	10° ≏ 08'07	1°05'06	superior conj	10442 Sep 06 21:52	24° m 34'54	
minimum elong	10441 Sep 22 11:59	9° ≙ 55'47	1°04'47	minimum elong	10442 Sep 06 20:01	24° m 24'52	0°42'54
evening rise	10441 Sep 29 07:52	24° ≏ 56'10			10442 Sep 09 09:33	0∘ ত	
	10441 Oct 01 17:16	0° ™		evening rise	10442 Sep 13 19:22	9° £ 34'13	
desc. node	10441 Oct 19 08:49	0° ∡ ¹08'38			10442 Sep 24 05:44	0°M	
	10441 Oct 19 06:09	0° ⊼ ¹	25006150	desc. node	10442 Oct 06 06:03	16°MJ38'12	22020112
evening max el	10441 Oct 25 18:44		25°06'58	evening max el	10442 Oct 07 05:48	17°M37'32	23°29'12
retrograde	10441 Nov 08 15:21	14° ₹ 20'12		retrograde	10442 Oct 20 17:05	24°M20'35	
evening set	10441 Nov 14 08:33	13° × 706'14	0.57050 ATT	evening set	10442 Oct 25 01:55	23°M39'06	0.55505 ATT
min. Earth dist.	10441 Nov 19 06:41	10° ∡ 724'38	0.57050 AU	min. Earth dist.	10442 Oct 31 15:47	20°M32'50	0.55505 AU
inferior conj minimum elong	10441 Nov 22 01:41 10441 Nov 22 07:55	8° х ⁷ 33'47 8° х ⁷ 23'25		inferior conj minimum elong	10442 Nov 02 11:19 10442 Nov 02 11:00	19°M28'46 19°M29'14	
morning rise	10441 Nov 30 09:34	8 x · 23 23 4° x ¹ 23 '07	3 20 39	morning rise	10442 Nov 02 11:00 10442 Nov 10 21:54	15°MJ36'01	3 44 37
direct	10441 Nov 30 09:34 10441 Dec 02 18:25	4°×106'53		direct	10442 Nov 10 21:34 10442 Nov 13 18:48	15°ML15'52	
morning max el	10441 Dec 11 23:20	8° ∡ 31'58	19°10'40	morning max el	10442 Nov 24 11:37	20°M19'29	20°22'11
asc. node	10441 Dec 12 13:31	9° × ³ 136	17 10 40	asc. node	10442 Nov 29 10:31	26°ML02'40	20 22 11
asc. node	10441 Dec 25 22:19	0°ਰ		ase. Houe	10442 Dec 02 03:35	0° ₹	
morning set	10441 Dec 28 18:49	5° る 36'26		morning set	10442 Dec 13 01:19	20° ∡ 15'48	
morning sec	10.11.200 20 10.19	0 03020		morning sec	10442 Dec 17 18:36	0°ਰ ਹਾਰ	
superior conj	10442 Jan 06 00:21	21° る 52'07	1°07'39				
minimum elong	10442 Jan 06 03:26	22° る 06'59	1°07'44	superior conj	10442 Dec 20 14:52	5°₹48'41	1°25'41
8	10442 Jan 10 07:27	0° ≈		minimum elong	10442 Dec 20 17:17	6° ට 00'52	1°25'58
max. Earth dist.	10442 Jan 12 17:59	4° ≈ 27'36	1.38576 AU	max. Earth dist.	10442 Dec 26 01:29	16° පි 32'21	1.36443 AU
desc. node	10442 Jan 15 07:41	9° ≈ 02'12		evening rise	10442 Dec 29 21:29	23° る 42'35	
evening rise	10442 Jan 16 12:46	11° ≈ 08'56		desc. node	10443 Jan 02 04:37	29° る 36'42	
	10442 Jan 28 02:22	0° ∀			10443 Jan 02 09:57	0° ≈	
	10442 Feb 19 16:49	0° Y			10443 Jan 21 18:46	0° ∀	
evening max el	10442 Feb 20 21:18	1° Y 12'08	24°45'28	evening max el	10443 Feb 03 10:49	15° ₩ 02'01	25°56'18
retrograde	10442 Mar 04 14:04	8° Y '01'25		retrograde	10443 Feb 16 00:24	22°) 1 2′25	
evening set	10442 Mar 10 04:08	5° Ƴ 41'42				19°) 43'22	
asc. node	10442 Mai 10 04.08			evening set	10443 Feb 22 02:32	19° \(\pi 43'22	
	10442 Mar 10 11:59	5° Y ′24'32		asc. node	10443 Feb 22 02:32 10443 Feb 25 09:12	16° ¥ 22'11	
min. Earth dist.	10442 Mar 10 11:59 10442 Mar 14 16:55	5° Υ 24'32 0° Υ 34'33	0.68044 AU	asc. node min. Earth dist.	10443 Feb 25 09:12 10443 Feb 26 08:41	16° ¥ 22'11 15° ¥ 11'05	0.67155 AU
	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22	5° Y 24'32 0° Y '34'33 30° RX		asc. node min. Earth dist. inferior conj	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23	16° ¥ 22'11 15° ¥ 11'05 13° ¥ 16'07	0°48'23
inferior conj	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49	5°Y24'32 0°Y34'33 30°R₩ 29°₩11'57	1°36'59	asc. node min. Earth dist. inferior conj minimum elong	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12	16° ¥ 22'11 15° ¥ 11'05 13° ¥ 16'07 13° ¥ 19'49	
inferior conj minimum elong	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49 10442 Mar 15 15:51	5°Y24'32 0°Y34'33 30°R X 29° X 11'57 29° X 18'29		asc. node min. Earth dist. inferior conj minimum elong morning rise	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28	16°¥22'11 15°¥11'05 13°¥16'07 13°¥19'49 7°¥27'22	0°48'23
inferior conj minimum elong morning rise	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49 10442 Mar 15 15:51 10442 Mar 21 03:45	5°Y24'32 0°Y34'33 30°R¥ 29°¥11'57 29°¥18'29 23°¥13'54	1°36'59	asc. node min. Earth dist. inferior conj minimum elong morning rise direct	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32	16°\times22'11 15°\times11'05 13°\times16'07 13°\times19'49 7°\times27'22 6°\times26'56	0°48'23 0°48'06
inferior conj minimum elong morning rise direct	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14	5°Y24'32 0°Y34'33 30°R X 29° X 11'57 29° X 18'29 23° X 13'54 21° X 54'07	1°36'59 1°36'22	asc. node min. Earth dist. inferior conj minimum elong morning rise	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 15 13:55	16° \(\frac{\chi}{22'11}\) 15° \(\frac{\chi}{11'05}\) 13° \(\frac{\chi}{16'07}\) 13° \(\frac{\chi}{19'49}\) 7° \(\frac{\chi}{22'22}\) 6° \(\frac{\chi}{26'56}\) 10° \(\frac{\chi}{305'40}\)	0°48'23
inferior conj minimum elong morning rise	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47	5°Y24'32 0°Y34'33 30°R¥ 29°¥11'57 29°¥18'29 23°¥13'54 21°¥54'07 25°¥59'56	1°36'59	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 15 13:55 10443 Mar 30 03:26	16° \(\) 22'11 15° \(\) 11'05 13° \(\) 16'07 13° \(\) 19'49 7° \(\) 22'22 6° \(\) 26'56 10° \(\) 05'40 0° \(\)	0°48'23 0°48'06
inferior conj minimum elong morning rise direct morning max el	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47 10442 Apr 04 19:57	5°Υ24'32 0°Υ34'33 30°R X 29° X 11'57 29° X 18'29 23° X 13'54 21° X 54'07 25° X 59'56 0°Υ	1°36'59 1°36'22	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 15 13:55 10443 Mar 30 03:26 10443 Mar 31 05:09	16° ¥22'11 15° ¥11'05 13° ¥16'07 13° ¥19'49 7° ¥27'22 6° ¥26'56 10° ¥05'40 0° Ψ 1° ¥39'08	0°48'23 0°48'06
inferior conj minimum elong morning rise direct morning max el desc. node	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 17:49 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47 10442 Apr 04 19:57 10442 Apr 13 08:22	5°Υ24'32 0°Υ34'33 30°R X 29° X 11'57 29° X 18'29 23° X 13'54 21° X 54'07 25° X 59'56 0° Υ 11° Y 37'00	1°36'59 1°36'22 19°43'37	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 30 03:26 10443 Mar 31 05:09 10443 Apr 06 16:04	16° \(\frac{\}22'\)11 15° \(\frac{\}11'\)05 13° \(\frac{\}16'\)07 13° \(\frac{\}19'\)49 7° \(\frac{\}27'\)22 6° \(\frac{\}26'\)56 10° \(\frac{\}05'\)40 0° \(\frac{\}10''\)39'\)08 11° \(\frac{\}40'\)58	0°48'23 0°48'06
inferior conj minimum elong morning rise direct morning max el	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 15:51 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47 10442 Apr 04 19:57 10442 Apr 13 08:22 10442 Apr 14 00:31	5°Y24'32 0°Y34'33 30°RH 29°H11'57 29°H18'29 23°H13'54 21°H54'07 25°H59'56 0°Y 11°Y37'00 12°Y35'57	1°36'59 1°36'22	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 15 13:55 10443 Mar 31 05:09 10443 Apr 06 16:04 10443 Apr 18 09:49	16°\(\)22'11 15°\(\)11'05 13°\(\)16'07 13°\(\)19'49 7°\(\)\(27'22 6°\(\)26'56 10°\(\)0°\(\) 1°\(\)39'08 11°\(\)40'58 0°\(\)	0°48'23 0°48'06 18°49'23
inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47 10442 Apr 04 19:57 10442 Apr 13 08:22 10442 Apr 14 00:31 10442 Apr 25 13:53	5°Y24'32 0°Y34'33 30°R	1°36'59 1°36'22 19°43'37	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 30 03:26 10443 Mar 31 05:09 10443 Apr 06 16:04	16° \(\frac{\}22'\)11 15° \(\frac{\}11'\)05 13° \(\frac{\}16'\)07 13° \(\frac{\}19'\)49 7° \(\frac{\}27'\)22 6° \(\frac{\}26'\)56 10° \(\frac{\}05'\)40 0° \(\frac{\}10''\)39'\)08 11° \(\frac{\}40'\)58	0°48'23 0°48'06
inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47 10442 Apr 04 19:57 10442 Apr 14 00:31 10442 Apr 15 13:53 10442 Apr 25 13:53 10442 Apr 27 07:09	5°Y24'32 0°Y34'33 30°R X 29° X 11'57 29° X 18'29 23° X 13'54 21° X 54'07 25° X 59'56 0°Y 11°Y37'00 12°Y35'57 0° 8 2° 8 38'25	1°36'59 1°36'22 19°43'37 -0.6m	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 15 13:55 10443 Mar 30 03:26 10443 Mar 31 05:09 10443 Apr 06 16:04 10443 Apr 18 09:49 10443 Apr 21 11:58	16°\(\)22'11 15°\(\)\(\)11'05 13°\(\)\(\)16'07 13°\(\)\(\)19'49 7°\(\)\(\)27'22 6°\(\)\(\)26'56 10°\(\)\(\)05'40 0°\(\)\(\) 1°\(\)\(\)39'08 11°\(\)\(\)40'58 0°\(\) 4°\(\)50'05	0°48'23 0°48'06 18°49'23
inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	10442 Mar 10 11:59 10442 Mar 14 16:55 10442 Mar 15 03:22 10442 Mar 15 15:51 10442 Mar 21 03:45 10442 Mar 24 21:14 10442 Apr 01 05:47 10442 Apr 04 19:57 10442 Apr 13 08:22 10442 Apr 14 00:31 10442 Apr 25 13:53	5°Y24'32 0°Y34'33 30°RH 29°H11'57 29°H18'29 23°H13'54 21°H54'07 25°H59'56 0°Y 11°Y37'00 12°Y35'57 0°B 2°B38'25	1°36'59 1°36'22 19°43'37	asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	10443 Feb 25 09:12 10443 Feb 26 08:41 10443 Feb 27 21:23 10443 Feb 27 20:12 10443 Mar 05 14:28 10443 Mar 08 20:32 10443 Mar 15 13:55 10443 Mar 31 05:09 10443 Apr 06 16:04 10443 Apr 18 09:49	16°\(\)22'11 15°\(\)11'05 13°\(\)16'07 13°\(\)19'49 7°\(\)\(27'22 6°\(\)26'56 10°\(\)0°\(\) 1°\(\)39'08 11°\(\)40'58 0°\(\)	0°48'23 0°48'06 18°49'23 1.45476 AU -2°05'20

evening rise asc. node	10443 May 07 08:28 10443 May 08 06:36 10443 May 24 07:20	0°П 1°П29'07 26°П29'19		desc. node	10444 Mar 17 01:57 10444 Mar 22 01:51	21° ℋ 57'58 0° Υ	
use. Hode	10443 May 27 01:19	0°95		superior conj	10444 Apr 01 08:02	16° Ƴ 14'57	-1°38'12
evening max el	10443 May 28 20:43	1° © 58'16	18°34'46	minimum elong	10444 Mar 31 22:31	15° Ƴ 37'36	1°37'22
retrograde	10443 Jun 04 08:59	5° 5 30'38		max. Earth dist.	10444 Apr 03 07:51	19° Ƴ 22'17	1.45622 AU
evening set	10443 Jun 07 13:45	4° 9 32'45			10444 Apr 10 03:19	0°8	
	10443 Jun 12 09:30	30°RⅡ		evening rise	10444 Apr 17 10:03	11° 8 19'57	
inferior conj	10443 Jun 13 06:13	28° Ⅱ 57'47	3°08'06	greatest brilliancy	10444 Apr 29 04:22	29° 8 29'48	-0.7m
minimum elong	10443 Jun 13 07:40	28° Ⅱ 53'24	3°07'25		10444 Apr 29 12:22	0°П	
min. Earth dist.	10443 Jun 15 07:21	26° Ⅱ 29'25	0.65196 AU	asc. node	10444 May 10 04:27	14° Ⅱ 32'00	10017102
morning rise direct	10443 Jun 19 00:44 10443 Jun 25 13:40	22° Ⅲ 38'25 19° Ⅲ 55'07		evening max el	10444 May 11 05:26 10444 May 18 05:41	15° Ⅲ 37'50 19° Ⅲ 34'17	19°16'03
desc. node	10443 Jun 27 05:15	19 П 33 07 20° П 04'23		retrograde evening set	10444 May 21 18:44	19 Д 3417 18° Д 21'01	
morning max el	10443 Jul 08 23:35	20 H 04 23	27°06'35	inferior conj	10444 May 27 05:11	13° I I30'56	3°17'57
morning man er	10443 Jul 11 01:07	0.0	27 0035	minimum elong	10444 May 27 05:27		3°17'28
	10443 Aug 01 11:48	$0^{\circ}\Omega$		min. Earth dist.	10444 May 28 15:16	10° Ⅱ 40′13	0.66728 AU
morning set	10443 Aug 13 13:53	21° Ω 36'46		morning rise	10444 Jun 01 15:42	6° Ⅱ 10′12	
	10443 Aug 17 19:28	0° ™		direct	10444 Jun 07 19:46	3° Ⅲ 28′04	
max. Earth dist.	10443 Aug 17 23:24	0° ™ 19'56	1.33643 AU	desc. node	10444 Jun 13 02:19	5° Ⅲ 03′05	
asc. node	10443 Aug 20 07:02	5° Mp 06′08		morning max el	10444 Jun 20 10:15	11° Ⅲ 00′10	25°59'22
					10444 Jul 05 12:55	0°99	
superior conj	10443 Aug 22 00:23	8° Tp 42'39	0°16'58		10444 Jul 24 02:31	0°N	
minimum elong	10443 Aug 21 23:31 10443 Aug 29 06:06	8° ዀ 38'09 24° ሙ 07'01	0°16'34	morning set max. Earth dist.	10444 Jul 26 11:30 10444 Jul 30 07:03	4°Ω19'12	1.35351 AU
evening rise	10443 Aug 29 00:00 10443 Sep 01 02:01	24 m/0/01 0° <u>Ω</u>		max. Earm dist.	10444 Jul 30 07.03	11 663042	1.55551 AU
evening max el	10443 Sep 01 02:01 10443 Sep 18 19:24	0 = 27° £ 47'56	21°50'11	superior conj	10444 Aug 04 19:11	22° Ω 24'42	-0°13'19
evening max er	10443 Sep 21 06:41	0°M	21 30 11	minimum elong	10444 Aug 04 19:59	22°Ω28'46	
desc. node	10443 Sep 23 03:19	1°M21'00		behind sun begin	10444 Aug 04 16:38	22° Ω 11'47	
retrograde	10443 Oct 01 07:45	4°M01'25		behind sun end	10444 Aug 04 23:19	22° Ω 45'46	
evening set	10443 Oct 04 06:13	3°M42'02		asc. node	10444 Aug 06 03:54	25° Ω 11'33	
	10443 Oct 12 19:02	30° Ŗ Ω			10444 Aug 08 11:51	0° m)	
inferior conj	10443 Oct 13 06:19	29° ≏ 44'13		evening rise	10444 Aug 12 14:01	8° m) 28'43	
minimum elong	10443 Oct 12 22:20		5°12'49		10444 Aug 24 04:01	0∘ 亚	
min. Earth dist.	10443 Oct 12 22:53	29° ₽ 54'38	0.54688 AU	evening max el	10444 Aug 30 20:03	8° <u>₽</u> 28'35	20°24'25
morning rise	10443 Oct 21 15:44 10443 Oct 25 05:16	25° £ 56'38 25° £ 28'51		desc. node	10444 Sep 09 00:35	13° Ω 47'42 13° Ω 56'21	
direct	10443 Oct 25 03:16	0°M		retrograde evening set	10444 Sep 10 20:10 10444 Sep 12 21:01	13° 2 45'57	
morning max el	10443 Nov 06 10:24	1°M 15'55	21°54'53	inferior conj	10444 Sep 21 23:28	9° £ 48'43	-3°49'43
asc. node	10443 Nov 16 07:28	13°M54'16	21 3 133	minimum elong	10444 Sep 21 13:56	10° ⊆ 02'37	
	10443 Nov 25 00:59	0° ∡ ¹		min. Earth dist.	10444 Sep 23 07:34	9° ჲ 01'50	0.54791 AU
morning set	10443 Nov 27 11:24	5° ∡ 02'24		morning rise	10444 Sep 30 06:16	5° ≏ 45'01	
				direct	10444 Oct 04 14:09	5° ഫ 04'44	
superior conj	10443 Dec 04 14:38	20° ₹ 09'56	1°36'13	morning max el	10444 Oct 17 23:59	11° ≏ 35'18	23°40'44
minimum elong	10443 Dec 04 15:55	20° ∡ 16'41	1°36'39		10444 Oct 31 18:24	0° M ₊	
max. Earth dist.	10443 Dec 08 14:36	28° ∡ ¹25'46	1.34571 AU	asc. node	10444 Nov 02 04:24	2°M28'52	
	10443 Dec 09 09:17	0°궁 6°궁56'49		morning set	10444 Nov 10 23:04	19° ™ 50'43 0° ҂	
evening rise desc. node	10443 Dec 12 22:09 10443 Dec 20 01:37	6°30'49 20° ろ 00'10			10444 Nov 15 15:46	0-X	
desc. Hode	10443 Dec 26 01:56	20 3 00 10 0° ≈		superior conj	10444 Nov 17 20:38	4° ∡ ¹47'12	1°39'55
evening max el	10444 Jan 17 00:18	28° ≈ 44'05	26°51'44	minimum elong	10444 Nov 17 20:43	4° × 747'37	1°40'21
<i>y</i>	10444 Jan 18 08:51	0°) €		max. Earth dist.	10444 Nov 20 11:28	10° ∡ ′24′16	1.33098 AU
retrograde	10444 Jan 30 05:06	6°) €05'06		evening rise	10444 Nov 25 11:10	20° х 42′43	
evening set	10444 Feb 05 18:12	3° ¥ 31'11			10444 Nov 30 06:26	ರ°0	
	10444 Feb 09 09:01	30° R ≈		desc. node	10444 Dec 05 22:39	10° る 07'02	
min. Earth dist.	10444 Feb 09 18:32	29° ≈ 33'11	0.65878 AU		10444 Dec 19 00:58	0° ≈	
inferior conj	10444 Feb 11 19:08	27°≈12'15		evening max el	10444 Dec 29 12:56	12° ≈ 08'09	27°24'39
minimum elong	10444 Feb 11 19:23	27°≈11'32		retrograde	10445 Jan 12 03:39	19°≈30'54	
transit middle transit begin	10444 Feb 11 19:23 10444 Feb 11 16:55	27°≈11'32 27°≈18'41	0°08'54	evening set min. Earth dist.	10445 Jan 19 00:51 10445 Jan 22 20:27	16°≈58'42 13°≈32'50	0.64248 AU
transit begin transit end	10444 Feb 11 16:55 10444 Feb 11 21:50	27°≈1841 27°≈04'23		inferior conj	10445 Jan 25 08:34	13°≈52′30 10°≈54′26	
asc. node	10444 Feb 12 06:25	27 ≈0423 26°≈39'34		minimum elong	10445 Jan 25 10:55	10 ≈3420 10°≈48'13	
morning rise	10444 Feb 17 21:45	20 ≈ 35'04		asc. node	10445 Jan 29 03:37	7°≈15'37	1 1.00
direct	10444 Feb 20 17:51	20°≈50'57		morning rise	10445 Jan 31 22:51	5° ≈ 31'23	
morning max el	10444 Feb 27 03:58	24° ≈ 15′05	18°11'43	direct	10445 Feb 03 10:42	4° ≈ 59'52	
	10444 Mar 02 23:01	0°) €		morning max el	10445 Feb 09 21:12	8° ≈ 20'33	17°51'03
morning set	10444 Mar 17 03:44	22°) €05'08			10445 Feb 24 12:48	0° ℋ	

morning set	10445 Feb 26 19:58	3° ¥ 52'51		morning max el	10446 Jan 24 14:28	22° る 13'47	17°48'00
desc. node	10445 Mar 03 22:44	12°) €28'23			10446 Jan 30 14:53	0° ≈	
				morning set	10446 Feb 09 11:19	16° ≈ 46'53	
superior conj	10445 Mar 12 03:08	25°) 53′11	-0°58'24		10446 Feb 17 00:02	0°) €	
minimum elong	10445 Mar 11 20:45	25° ∺ 27′29	0°57'27	desc. node	10446 Feb 18 19:30	3°) €06′27	
	10445 Mar 14 16:45	0° Υ					
max. Earth dist.	10445 Mar 17 03:07	3° Y 51'33	1.45027 AU	superior conj	10446 Feb 20 21:46	6°) (39'33	
evening rise	10445 Mar 27 23:06	20° Y 42'11		minimum elong	10446 Feb 20 20:15	6°) €33'09	0°15'17
4 41 711	10445 Apr 03 01:36	0° と 12° と 56'13	-0.6m	behind sun begin behind sun end	10446 Feb 20 17:34	6° 米 21'51 6° 米 44'27	
greatest brilliancy evening max el	10445 Apr 11 18:13 10445 Apr 24 08:54	29° 8 19'37	-0.6m 20°12'51	max. Earth dist.	10446 Feb 20 22:56 10446 Feb 27 19:30	18°) (02'45	1.43765 AU
evening max er	10445 Apr 25 01:18	0°Ⅱ	20 12 31	max. Lattii dist.	10446 Mar 07 08:54	0°Υ	1.43703 AC
asc. node	10445 Apr 27 01:37	1° ∏ 44'12		evening rise	10446 Mar 07 12:47	0°Υ15'02	
retrograde	10445 May 02 04:18	3° ∏ 50′21		<i>y</i>	10446 Mar 27 16:53	0°8	
evening set	10445 May 06 02:23	2° ∏ 21'31		evening max el	10446 Apr 07 06:51	13° 8 03'17	21°22'16
	10445 May 08 12:51	30°R₩		asc. node	10446 Apr 13 22:50	17° 8 51'48	
inferior conj	10445 May 11 09:47	26° 8 18'03	3°14'28	retrograde	10446 Apr 16 02:43	18° 8 14'43	
minimum elong	10445 May 11 08:58	26° 8 20'51	3°14'00	evening set	10446 Apr 20 10:53	16° 8 30'20	
min. Earth dist.	10445 May 12 05:34	25° 8 10'41	0.67821 AU	inferior conj	10446 Apr 25 17:40	_	2°59'44
morning rise	10445 May 16 15:15	19° 8 59'17		minimum elong	10446 Apr 25 16:02	10° 8 21'17	2°59'10
direct desc. node	10445 May 22 07:41	17° 8 27'29 21° 8 40'38		min. Earth dist.	10446 Apr 26 00:07	9° 8 53'10 4° 8 00'56	0.68460 AU
morning max el	10445 May 30 23:19 10445 Jun 02 19:57	24° 8 21'51	24°35'42	morning rise direct	10446 Apr 30 20:57 10446 May 06 00:18	1° 8 46'08	
morning max ci	10445 Jun 07 21:10	0°II	24 33 42	morning max el	10446 May 16 05:52	7° 8 50'46	23°05'51
	10445 Jun 28 23:18	0.බ ⊙ ව		desc. node	10446 May 17 20:13	9° 8 31'16	23 03 31
morning set	10445 Jul 08 15:13	16° © 09'54			10446 Jun 02 12:35	0°II	
max. Earth dist.	10445 Jul 12 05:53	22°536'38	1.37448 AU	morning set	10446 Jun 19 19:55	26° Ⅱ 56'15	
	10445 Jul 16 05:34	$0^{\circ}\Omega$			10446 Jun 21 15:45	0 \circ \odot	
				max. Earth dist.	10446 Jun 24 02:25	4° © 10'22	1.39742 AU
superior conj	10445 Jul 19 03:00	5° Ω 32′20					
minimum elong	10445 Jul 19 06:01	5° Ω 46'55	0°46'01	superior conj	10446 Jul 01 20:03	17° © 57'11	
asc. node	10445 Jul 24 00:45	15° Ω 12'32		minimum elong	10446 Jul 02 01:20	18° © 21'29	1°18'48
evening rise	10445 Jul 27 16:35 10445 Jul 31 11:45	22° Ω 31'48 0° ™		asc. node	10446 Jul 08 05:53 10446 Jul 10 21:40	0° Ω 5° Ω 05'39	
evening max el	10445 Jul 31 11:45 10445 Aug 13 10:30	עווי ט 19° ווע 54'50	19°18'36	evening rise	10446 Jul 11 10:55	6° Ω 09'13	
retrograde	10445 Aug 22 18:04	24° mp 32'28	17 10 30	evening rise	10446 Jul 25 14:47	0°m)	
evening set	10445 Aug 24 14:14	24° m) 22'24		evening max el	10446 Jul 27 12:28	2° mp 05'13	18°33'54
desc. node	10445 Aug 26 21:51	23° m/43'12		retrograde	10446 Aug 04 09:51	6° Mp 02'02	
inferior conj	10445 Sep 02 04:46	20° m 13'41	-1°57'08	evening set	10446 Aug 06 10:49	5° ™ 47'04	
minimum elong	10445 Sep 01 23:34	20° m 22'15	1°55'16	desc. node	10446 Aug 13 19:05	1° m 40'54	
min. Earth dist.	10445 Sep 04 19:51	18° m 30'09	0.55819 AU	inferior conj	10446 Aug 14 06:30	1° Mp 19'02	
morning rise	10445 Sep 10 06:09	15° m 37'02		minimum elong	10446 Aug 14 06:09	1° m 19'43	0°08'54
direct	10445 Sep 15 09:45	14° Mp 36'26	25024150	transit middle	10446 Aug 14 06:09	1° Mp 19'43	0°08'54
morning max el	10445 Sep 29 11:39 10445 Oct 06 17:48	21° ™ 43'52 0° ⊆	25°24'59	transit begin transit end	10446 Aug 14 03:08 10446 Aug 14 09:09	1° Mp 25'30 1° Mp 13'55	
asc. node	10445 Oct 20 01:17	0 = 21° £ 35'17		transit ciid	10446 Aug 15 23:22	30°RΩ	
use. Houe	10445 Oct 24 06:19	0°M		min. Earth dist.	10446 Aug 17 13:07	28° Ω 48'52	0.57585 AU
morning set	10445 Oct 26 10:37	4°M35'36		morning rise	10446 Aug 21 21:58	26° Ω 05'19	
-				direct	10446 Aug 27 19:47	24° Ω 37'24	
superior conj	10445 Nov 02 06:27	19°M32'57	1°37'24		10446 Sep 08 17:46	0° ™	
minimum elong	10445 Nov 02 05:27	19°M27'28	1°37'42	morning max el	10446 Sep 11 03:41	2°Mp11'19	26°50'07
max. Earth dist.	10445 Nov 03 15:30		1.32081 AU	_	10446 Oct 01 01:47	0∘ ত	
	10445 Nov 07 01:45	0° ✓ 7		asc. node	10446 Oct 06 22:06	11° Ω 04'57	
evening rise	10445 Nov 09 09:21	4° 🖈 52'08		morning set	10446 Oct 10 20:21	19° Ω 12'03	
desc. node	10445 Nov 22 19:45 10445 Nov 22 22:06	29°♂50'19 0°る			10446 Oct 15 19:10	0°M₊	
evening max el	10445 Dec 11 23:01	25° පි 02'43	27°28'38	superior conj	10446 Oct 17 18:01	4°M20'28	1°29'07
J. J	10445 Dec 18 07:43	0°≈	2, 2000	minimum elong	10446 Oct 17 16:13	4°M10'30	1°29'11
retrograde	10445 Dec 25 19:07	2°≈20'36		max. Earth dist.	10446 Oct 17 23:58	4°M53'37	1.31544 AU
evening set	10446 Jan 01 19:41	29° ප 58'46		evening rise	10446 Oct 24 13:59	19° ™ 17'19	
	10446 Jan 01 18:56	30°R₹			10446 Oct 29 20:12	0° ∡ ¹	
min. Earth dist.	10446 Jan 05 12:50	27° ට 00'12		desc. node	10446 Nov 09 16:52	18° ∡ 59'53	
inferior conj	10446 Jan 08 10:46	24° ප 15'44			10446 Nov 17 13:40	0°ප	
minimum elong	10446 Jan 08 15:42	24°る04'05	2°25'58	evening max el	10446 Nov 24 03:57	7°る14'42	26°59'06
morning rise	10446 Jan 15 14:09	19° ろ 09'38		retrograde	10446 Dec 08 02:01	14°る24'31	
asc. node	10446 Jan 16 00:47	19°る01'38 18°る46'54		evening set	10446 Dec 14 22:53	12°る22'39 9°る42'40	0.60245 AU
direct	10446 Jan 17 20:03	10 040 34		min. Earth dist.	10446 Dec 18 18:29	9 04240	0.00243 AU

inferior conj	10446 Dec 21 22:16	7° る 06'24	-3°43'34	minimum elong	10447 Dec 03 23:21	19° ∡ '02'41	4°49'43
minimum elong	10446 Dec 22 05:34	6° る 51'19		morning rise	10447 Dec 11 19:14	14°×7'53'12	, .,
morning rise	10446 Dec 29 14:52	2° る 20'22		direct	10447 Dec 14 00:28	14° ∡ ³37′21	
direct	10446 Dec 31 18:08	2° る 02'44		asc. node	10447 Dec 20 18:57	17° ∡ 15'40	
asc. node	10447 Jan 02 21:55	2° る 21'30		morning max el	10447 Dec 22 11:05	18° ∡ ¹43'34	18°39'56
morning max el	10447 Jan 08 04:20	5°₹44'46	18°03'43	C	10447 Dec 30 17:18	0°ರ	
morning set	10447 Jan 23 19:19	0° ≈ 27'09		morning set	10448 Jan 07 14:55	14° පි 38'40	
	10447 Jan 23 13:29	0° ≈		-	10448 Jan 15 14:01	0° ≈	
:	10447 E-1 02 16-54	1990 02 4127	0922120	:	10448 Jan 16 08:42	190027154	0952124
superior conj minimum elong	10447 Feb 02 16:54 10447 Feb 02 18:41	18°≈34'37 18°≈42'32	0°22'39 0°22'44	superior conj minimum elong	10448 Jan 16 08:42 10448 Jan 16 11:45	1°≈27'54 1°≈42'09	0°53'34 0°53'35
desc. node	10447 Feb 05 16:17	23°≈47'57	0 22 44	max. Earth dist.	10448 Jan 23 15:51	14°≈41'35	1.39854 AU
desc. node	10447 Feb 09 07:21	0° \		desc. node	10448 Jan 23 13:08	14°≈29'41	1.57654 AC
max. Earth dist.	10447 Feb 10 07:46	1° ¥ 42'23	1.41975 AU	evening rise	10448 Jan 27 17:20	21°≈39'24	
evening rise	10447 Feb 15 16:39	10° ¥ 29'25	1.119,0110	overmig rise	10448 Feb 01 19:23	0°) €	
<i>8</i> 11	10447 Feb 28 10:05	0° Υ			10448 Feb 22 11:08	0°Υ	
evening max el	10447 Mar 21 00:09	26° Ƴ 48'24	22°40'03	evening max el	10448 Mar 02 14:29	10° Ƴ 36′01	24°00'26
•	10447 Mar 24 14:04	0°B		retrograde	10448 Mar 13 16:40	17° Ƴ 07'15	
retrograde	10447 Mar 30 23:15	2° 8 41'48		asc. node	10448 Mar 17 17:17	15° Y 51′26	
asc. node	10447 Mar 31 20:04	2° 8 38'09		evening set	10448 Mar 18 23:54	14° Y 54'04	
evening set	10447 Apr 04 18:34	0° 8 42'23		min. Earth dist.	10448 Mar 23 16:59	9° Ƴ 27'05	0.68390 AU
	10447 Apr 05 13:13	30° ₹Ƴ		inferior conj	10448 Mar 24 11:10	8° Y 25′22	2°00'50
inferior conj	10447 Apr 10 02:45	24° Y 18'57	2°34'59	minimum elong	10448 Mar 24 09:01	8° Y 32'42	2°00'08
minimum elong	10447 Apr 10 00:38	24° Y 26'16	2°34'19	morning rise	10448 Mar 29 18:10	2° Y 23'07	
min. Earth dist.	10447 Apr 09 20:38	24° Y '40'13	0.68644 AU	direct	10448 Apr 02 18:48	0° Υ 51'15	
morning rise	10447 Apr 15 06:35	18° Ƴ 09'54		morning max el	10448 Apr 10 15:25	5° Ƴ 17'53	20°21'49
direct	10447 Apr 19 20:24	16° Y 16′01		desc. node	10448 Apr 20 13:53	17° Ƴ 35'45	
morning max el	10447 Apr 28 19:16	21° Y ′28'14	21°38'58		10448 Apr 29 03:17	0° 8	
desc. node	10447 May 04 17:04	28° Y 14'19		morning set	10448 May 09 02:13	15° 8 07'15	
	10447 May 06 02:06	0° 8		max. Earth dist.	10448 May 18 12:08	29° 8 56'09	1.43780 AU
	10447 May 26 18:48	0°II			10448 May 18 13:06	Π $^{\circ}$ 0	
morning set	10447 May 30 22:06	6° Ⅱ 30'13	1 41042 411		10440 M 24 15 57	00 T 5715 5	2000112
max. Earth dist.	10447 Jun 06 03:43	16° Ⅱ 36'43	1.41942 AU	superior conj	10448 May 24 15:57 10448 May 24 20:14	9° Ⅱ 57'55 10° Ⅱ 15'38	
superior conj	10447 Jun 13 17:44	29° ∏ 28'42	10/18/18	minimum elong	10448 Jun 05 10:41	0.2 10 т 1239	2 08 30
minimum elong	10447 Jun 14 00:08	29° II 56'37		evening rise	10448 Jun 06 06:44	1° 9 27'17	
minimum ciong	10447 Jun 14 00:55	0°95	1 40 11	asc. node	10448 Jun 13 15:38	14°9509'38	
evening rise	10447 Jun 24 17:11	19° © 11'32		evening max el	10448 Jun 23 11:11	28°901'42	18°04'53
asc. node	10447 Jun 27 18:38	24°9546'34		evening max er	10448 Jun 25 20:13	0°Ω	10 0123
	10447 Jun 30 16:46	0°N		retrograde	10448 Jun 29 22:08	1° Ω 22'36	
evening max el	10447 Jul 10 21:59	14° Ω 50'56	18°09'40	evening set	10448 Jul 02 14:24	0° Ω 47'08	
retrograde	10447 Jul 17 20:31	18° Ω 22'12		Č	10448 Jul 04 01:18	30° ℝ ∽	
evening set	10447 Jul 20 04:59	17° Ω 58'24		inferior conj	10448 Jul 08 23:34	25°538'59	2°17'47
inferior conj	10447 Jul 27 05:48	13° Ω 09'31	1°17'25	minimum elong	10448 Jul 09 02:21	25° © 31'49	2°16'35
minimum elong	10447 Jul 27 08:04	13° Ω 04'24	1°16'15	min. Earth dist.	10448 Jul 11 22:42	22° © 37'00	0.62023 AU
min. Earth dist.	10447 Jul 30 13:27	10° Ω 11'57	0.59759 AU	morning rise	10448 Jul 15 12:07	19° © 33'15	
desc. node	10447 Jul 31 16:16	9° Ω 16'43		desc. node	10440 T 1 17 10 07	18° © 18'42	
morning rise					10448 Jul 17 13:27		
direct	10447 Aug 03 08:05	7° Ω 24'40		direct	10448 Jul 22 04:46	17° © 10'29	
	10447 Aug 09 18:45	5° Ω 27'21			10448 Jul 22 04:46 10448 Aug 05 08:44	17°©10'29 25°©12'26	27°56'52
morning max el	10447 Aug 09 18:45 10447 Aug 24 02:58	5° Ω 27'21 13° Ω 19'10	27°42'42	direct	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10	17°©10′29 25°©12′26 0°Ω	27°56'52
morning max el	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54	5° Ω 27'21 13° Ω 19'10 0° m	27°42'42	direct morning max el	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19	17°©10'29 25°©12'26 0°Ω 0°™	27°56'52
-	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53	5° Q 27'21 13° Q 19'10 0° M 0° ⊆	27°42'42	direct morning max el morning set	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16	17°\$10'29 25°\$12'26 0°\$0 0°\$0 17°\$040'35	27°56'52
asc. node	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55	5° Ω 27'21 13° Ω 19'10 0° m 0° Ω 0° Ω	27°42'42	direct morning max el morning set asc. node	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43	17°\$10'29 25°\$12'26 0°\$\Omega\$ 0°\$\text{m}\$ 17°\$\text{m}\$40'35 20°\$\text{m}\$48'41	
asc. node morning set	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35	5° \$\Omega 27'21 13° \$\Omega 19'10 0° \$\mathbf{m}\$ 0° \$\Omega 51'25 3° \$\Omega 35'48		direct morning max el morning set	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45	17°\$10'29 25°\$12'26 0°\$1 0°\$0 17°\$40'35 20°\$48'41 29°\$20'02	27°56'52 1.31930 AU
asc. node	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55	5° \$\Omega 27'21 13° \$\Omega 19'10 0° \$\mathbf{m}\$ 0° \$\Omega 51'25 3° \$\Omega 35'48	27°42'42 1.31492 AU	direct morning max el morning set asc. node	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43	17°\$10'29 25°\$12'26 0°\$\Omega\$ 0°\$\text{m}\$ 17°\$\text{m}\$40'35 20°\$\text{m}\$48'41	
asc. node morning set	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35	5° \$\Omega 27'21 13° \$\Omega 19'10 0° \$\mathbf{m}\$ 0° \$\Omega 51'25 3° \$\Omega 35'48		morning max el morning set asc. node max. Earth dist.	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06	17°\$10'29 25°\$12'26 0°\$1 0°\$0 17°\$40'35 20°\$48'41 29°\$20'02	
asc. node morning set max. Earth dist.	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Oct 01 09:24 10447 Oct 02 05:31 10447 Oct 02 03:19	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\alpha 51'25\\ 3° \$\alpha 51'247\\ 19° \$\alpha 04'24\\ 18° \$\alpha 52'09\\	1.31492 AU	morning max el morning set asc. node max. Earth dist. superior conj minimum elong	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58	17°\$10'29 25°\$12'26 0°\$\mathcal{O}\$ 0°\$\mathcal{M}\$ 17°\$\mathcal{M}\$40'35 20°\$\mathcal{M}\$48'41 29°\$\mathcal{M}\$20'02 0°\$\mathcal{\O}\$ 3°\$\mathcal{\O}\$38'34 3°\$\mathcal{\O}\$26'49	1.31930 AU
asc. node morning set max. Earth dist. superior conj minimum elong	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Oct 01 09:24 10447 Oct 02 05:31 10447 Oct 02 03:19 10447 Oct 07 04:00	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathred{m}\\ 0° \oldsymbol{\Omega} \\ 0° \oldsymbol{\Omega} 51'25\\ 3° \oldsymbol{\Omega} 35'48\\ 17° \oldsymbol{\Omega} 12'47\\ 19° \oldsymbol{\Omega} 04'24\\ 18° \oldsymbol{\Omega} 52'09\\ 0° \$\mathred{m}\\	1.31492 AU 1°15'23	morning max el morning set asc. node max. Earth dist.	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55	17°\$10'29 25°\$12'26 0°\$\mathcal{O}\$ 0°\$\mathcal{M}\$ 17°\$\mathcal{M}\$40'35 20°\$\mathcal{M}\$48'41 29°\$\mathcal{M}\$20'02 0°\$\mathcal{\O}\$ 3°\$\mathcal{\O}\$38'34 3°\$\mathcal{\O}\$26'49 18°\$\mathcal{\O}\$30'07	1.31930 AU 0°56'28
asc. node morning set max. Earth dist.	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 05:31 10447 Oct 02 03:19 10447 Oct 07 04:00 10447 Oct 08 22:52	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\alpha 51'25\\ 3° \$\alpha 51'25\\ 3° \$\alpha 35'48\\ 17° \$\alpha 12'47\\ 19° \$\alpha 04'24\\ 18° \$\alpha 52'09\\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m} 52'12\\	1.31492 AU 1°15'23	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32	17°\$10'29 25°\$12'26 0°\$\mathcal{O}\$ 0°\$\mathcal{M}\$ 17°\$\mathcal{M}\$40'35 20°\$\mathcal{M}\$48'41 29°\$\mathcal{M}\$20'02 0°\$\mathcal{\O}\$ 3°\$\mathcal{\O}\$38'34 3°\$\mathcal{\O}\$26'49 18°\$\mathcal{\O}\$30'07 0°\$\mathcal{M}\$.	1.31930 AU 0°56'28
asc. node morning set max. Earth dist. superior conj minimum elong evening rise	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 05:31 10447 Oct 02 03:19 10447 Oct 02 03:19 10447 Oct 08 22:52 10447 Oct 22 16:59	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\alpha 51'25\\ 3° \$\alpha 51'25\\ 3° \$\alpha 35'48\\ 17° \$\alpha 12'47\\ 18° \$\alpha 52'09\\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m} 52'12\\ 0° \$\neq\$	1.31492 AU 1°15'23	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32 10448 Oct 13 11:16	17°\$10'29 25°\$12'26 0°\$\Omega\$ 0°\$\mathbf{m}\$ 17°\$\mathbf{m}\$40'35 20°\$\mathbf{m}\$48'41 29°\$\mathbf{m}\$20'02 0°\$\Omega\$ 3°\$\Omega\$38'34 3°\$\Omega\$26'49 18°\$\Omega\$30'07 0°\$\mathbf{m}\$ 24°\$\mathbf{m}\$40'03	1.31930 AU 0°56'28 0°56'05
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 05:31 10447 Oct 02 03:19 10447 Oct 02 03:19 10447 Oct 08 22:52 10447 Oct 22 16:59 10447 Oct 27 14:02	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\alpha 51'25\\ 3° \$\alpha 51'25\\ 3° \$\alpha 12'47\\ 19° \$\alpha 04'24\\ 18° \$\alpha 52'09\\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m} 52'12\\ 0° \$\neq 12'46\\ 0° \$\neq 12'46\\	1.31492 AU 1°15'23 1°15'11	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32 10448 Oct 13 11:16 10448 Oct 17 14:16	17°\$10'29 25°\$12'26 0°\$\Omega\$ 0°\$\mathbf{m}\$ 17°\$\mathbf{m}\$40'35 20°\$\mathbf{m}\$48'41 29°\$\mathbf{m}\$20'02 0°\$\Omega\$ 3°\$\Omega\$38'34 3°\$\Omega\$26'49 18°\$\Omega\$30'07 0°\$\mathbf{m}\$ 24°\$\mathbf{m}\$40'03 29°\$\mathbf{m}\$40'650	1.31930 AU 0°56'28
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 03:19 10447 Oct 07 04:00 10447 Oct 08 22:52 10447 Oct 22 16:59 10447 Oct 27 14:02 10447 Nov 06 01:07	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 17° \$\mathbf{n} 12'47\\ 19° \$\mathbf{n} 04'24\\ 18° \$\mathbf{n} 52'09\\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m} 52'12\\ 0° \$\mathbf{n}\\ 7° \$\mathbf{n} 22'46\\ 18° \$\mathbf{n} 35'17\\ \end{array}	1.31492 AU 1°15'23 1°15'11	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 09 15:43 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32 10448 Oct 13 11:16 10448 Oct 17 14:16 10448 Oct 18 13:07	17° \$10'29 25° \$12'26 0° \$\Omega\$ 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$ 40'35 20° \$\mathbf{m}\$ 48'41 29° \$\mathbf{m}\$ 20'02 0° \$\Omega\$ 3° \$\Omega\$ 38'34 3° \$\Omega\$ 26'49 18° \$\Omega\$ 30'07 0° \$\mathbf{m}\$ 24° \$\mathbf{m}\$ 40'03 29° \$\mathbf{m}\$ 40'650 0° \$\nall\$	1.31930 AU 0°56'28 0°56'05
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 03:19 10447 Oct 07 04:00 10447 Oct 08 22:52 10447 Oct 22 16:59 10447 Oct 27 14:02 10447 Nov 06 01:07 10447 Nov 19 22:46	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 10° \$\mathbf{n}\\ 17° \$\mathbf{n}\) 12'47\\ 19° \$\mathbf{n}\) 04'24\\ 18° \$\mathbf{n}\) 52'12\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{n}\) 22'46\\ 18° \$\mathbf{n}\) 35'17\\ 25° \$\mathbf{n}\) 37'25	1.31492 AU 1°15'23 1°15'11	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32 10448 Oct 13 11:16 10448 Oct 17 14:16 10448 Oct 18 13:07 10448 Oct 31 07:58	17° \$10'29 25° \$12'26 0° \$\Omega\$ 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$40'35 20° \$\mathbf{m}\$48'41 29° \$\mathbf{m}\$20'02 0° \$\Omega\$ 3° \$\Omega\$38'34 3° \$\Omega\$26'49 18° \$\Omega\$30'07 0° \$\mathbf{m}\$ 24° \$\mathbf{m}\$.40'03 29° \$\mathbf{m}\$.06'50 0° \$\nall\$" 6° \$\nall\$"00'10	1.31930 AU 0°56'28 0°56'05
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 03:19 10447 Oct 02 03:19 10447 Oct 08 22:52 10447 Oct 22 16:59 10447 Oct 27 14:02 10447 Nov 06 01:07 10447 Nov 19 22:46 10447 Nov 26 05:55	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 17° \$\mathbf{n} 12'47\\ 19° \$\mathbf{n} 04'24\\ 18° \$\mathbf{n} 52'09\\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m} 52'12\\ 0° \$\mathbf{n}\\ 7° \$\mathbf{n} 22'46\\ 18° \$\mathbf{n} 35'17\\ 25° \$\mathbf{n} 37'25\\ 24° \$\mathbf{n} 04'02\\ \end{array}	1.31492 AU 1°15'23 1°15'11 25°55'56	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32 10448 Oct 13 11:16 10448 Oct 17 14:16 10448 Oct 18 13:07 10448 Oct 31 07:58 10448 Nov 05 12:46	17° \$10'29 25° \$12'26 0° \$\Omega\$ 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$40'35 20° \$\mathbf{m}\$48'41 29° \$\mathbf{m}\$20'02 0° \$\Omega\$ 3° \$\Omega\$38'34 3° \$\Omega\$26'49 18° \$\Omega\$30'07 0° \$\mathbf{m}\$ 24° \$\mathbf{m}\$40'03 29° \$\mathbf{m}\$.06'50 0° \$\nall\$ 6° \$\nall\$00'10 5° \$\nall\$00'18	1.31930 AU 0°56'28 0°56'05 24°26'34
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	10447 Aug 09 18:45 10447 Aug 24 02:58 10447 Sep 06 09:54 10447 Sep 23 08:53 10447 Sep 23 18:55 10447 Sep 25 02:35 10447 Oct 01 09:24 10447 Oct 02 03:19 10447 Oct 07 04:00 10447 Oct 08 22:52 10447 Oct 22 16:59 10447 Oct 27 14:02 10447 Nov 06 01:07 10447 Nov 19 22:46	5° \$\alpha 27'21\\ 13° \$\alpha 19'10\\ 0° \$\mathbf{m}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 0° \$\mathbf{n}\\ 10° \$\mathbf{n}\\ 17° \$\mathbf{n}\) 12'47\\ 19° \$\mathbf{n}\) 04'24\\ 18° \$\mathbf{n}\) 52'12\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{n}\) 22'46\\ 18° \$\mathbf{n}\) 35'17\\ 25° \$\mathbf{n}\) 37'25	1.31492 AU 1°15'23 1°15'11 25°55'56 0.58158 AU	morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	10448 Jul 22 04:46 10448 Aug 05 08:44 10448 Aug 09 18:10 10448 Aug 29 21:19 10448 Sep 08 03:16 10448 Sep 13 15:45 10448 Sep 13 23:06 10448 Sep 15 15:06 10448 Sep 15 12:58 10448 Sep 22 09:55 10448 Sep 27 23:32 10448 Oct 13 11:16 10448 Oct 17 14:16 10448 Oct 18 13:07 10448 Oct 31 07:58	17° \$10'29 25° \$12'26 0° \$\Omega\$ 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$40'35 20° \$\mathbf{m}\$48'41 29° \$\mathbf{m}\$20'02 0° \$\Omega\$ 3° \$\Omega\$38'34 3° \$\Omega\$26'49 18° \$\Omega\$30'07 0° \$\mathbf{m}\$ 24° \$\mathbf{m}\$.40'03 29° \$\mathbf{m}\$.06'50 0° \$\nall\$" 6° \$\nall\$"00'10	1.31930 AU 0°56'28 0°56'05 24°26'34 0.56321 AU

minimum elong	10448 Nov 13 16:24	0° ∡ ³31'49	5°36'54	retrograde	10449 Oct 12 04:55	15° M 47'44	
minimum clong	10448 Nov 14 12:50	30°RM	3 30 34	evening set	10449 Oct 15 22:10	15°ML17'29	
morning rise	10448 Nov 21 22:11	26°MJ36'27		min. Earth dist.	10449 Oct 23 09:19	11°ML55'16	0.55049 AU
direct	10448 Nov 24 11:24	26°MJ19'04		inferior conj	10449 Oct 24 14:37	11°ML13'23	
	10448 Dec 03 04:45	0° ∡ 7		minimum elong	10449 Oct 24 10:42	11° M .19'00	
morning max el	10448 Dec 04 06:59	0° ∡ 759′09	19°38'26	morning rise	10449 Nov 02 00:57	7° M 24'55	
asc. node	10448 Dec 06 15:58	3° ∡ ³30'54		direct	10449 Nov 05 04:18	7°ML02'09	
morning set	10448 Dec 21 18:14	29° х ¹09'39		morning max el	10449 Nov 16 13:27	12°M24'24	20°59'25
	10448 Dec 22 04:13	ರ°0		asc. node	10449 Nov 23 12:56	20°M51'35	
					10449 Nov 29 01:34	0° ∡ ¹	
superior conj	10448 Dec 29 16:12	15° පි 04'41	1°16'15	morning set	10449 Dec 06 02:27	13° ∡ 51′59	
minimum elong	10448 Dec 29 19:05	15° පි 18'52	1°16'25				
max. Earth dist.	10449 Jan 04 21:47	26° る 59'54	1.37643 AU	superior conj	10449 Dec 13 11:01	29° ∡ 12′26	1°31'02
	10449 Jan 06 13:06	0° ≈		minimum elong	10449 Dec 13 12:59	29° ∡ ¹22'32	1°31'23
evening rise	10449 Jan 08 15:03	3° ≈ 43'58			10449 Dec 13 20:16	0°ಕ	
desc. node	10449 Jan 09 10:03	5° ≈ 07'42		max. Earth dist.	10449 Dec 18 06:42	8° る 54'40	1.35596 AU
	10449 Jan 24 20:52	0° ∀		evening rise	10449 Dec 22 06:57	16° පි 35'31	
evening max el	10449 Feb 13 03:44	24°) €25′26	25°16'56	desc. node	10449 Dec 27 07:00	25° る 37'44	
	10449 Feb 20 06:30	0° Υ			10449 Dec 29 20:02	0° ≈	
retrograde	10449 Feb 25 06:01	1° Υ 25'38			10450 Jan 19 07:17	0° ∀	
	10449 Mar 01 17:58	30° ₹		evening max el	10450 Jan 26 17:09	8°) 12'32	26°22'18
evening set	10449 Mar 03 01:22	29° ₭ 01'11		retrograde	10450 Feb 08 14:17	15° ¥ 29'37	
asc. node	10449 Mar 04 14:31	27° ¥ 32'51	0.67715.433	evening set	10450 Feb 14 21:11	12° ¥ 57'49	0.666471.433
min. Earth dist.	10449 Mar 07 11:04	24°) (09'05	0.67715 AU	min. Earth dist.	10450 Feb 19 00:41	8°) 40′08	0.66647 AU
inferior conj	10449 Mar 08 17:06	22°\(\frac{1}{31}\)'40 22°\(\frac{1}{37}\)'13	1°17'31 1°16'59	asc. node	10450 Feb 19 11:45	8° ∺ 06'48 6° ∺ 33'03	0°25'01
minimum elong	10449 Mar 08 15:23	22° ★ 3/13 16° ¥ 37'33	1°16'59	inferior conj	10450 Feb 20 18:28	6° X 35'03	
morning rise direct	10449 Mar 14 05:47 10449 Mar 17 18:11	16° ★ 3/33		minimum elong morning rise	10450 Feb 20 17:49 10450 Feb 26 15:19	0° ∺ 48'51	0°24'59
morning max el	10449 Mar 24 19:27	19° X 19'21	19°18'36	morning rise	10450 Feb 28 20:22	0 7(48 31 30°R≈	
morning max er	10449 Mai 24 19.27 10449 Apr 02 08:52	19 γ (1921	19 10 30	direct	10450 Mar 01 16:51	30 k∞ 29°≈55'54	
greatest brilliancy	10449 Apr 06 15:39	6° Υ 14'22	-0.7m	uncet	10450 Mar 02 13:31	0° ∺	
desc. node	10449 Apr 07 10:42	7° Υ 25'27	-0.7111	morning max el	10450 Mar 08 06:24		18°31'18
morning set	10449 Apr 18 02:32	23° Υ 41'17		desc. node	10450 Mar 25 07:29	27°) 35'16	10 31 10
morning sec	10449 Apr 22 04:28	0°8		desc. node	10450 Mar 26 20:11	0°Υ	
max. Earth dist.	10449 May 01 02:28	_	1.45049 AU	morning set	10450 Mar 28 21:44	3° Y 15'37	
	•			-			
superior conj	10449 May 04 14:35	19° 8 28'10	-2°12'11	superior conj	10450 Apr 13 22:08	28° Y ′24'38	-1°55'59
minimum elong	10449 May 04 12:24	19° 8 19'31	2°12'31	minimum elong	10450 Apr 13 13:33		1°55'35
	10449 May 11 04:00	Π $^{\circ}0$		max. Earth dist.	10450 Apr 13 20:48		1.45627 AU
evening rise	10449 May 18 22:52	12° Ⅱ 46′33			10450 Apr 14 22:31	$0^{\circ}S$	
	10449 May 29 11:26	0 \circ \odot		evening rise	10450 Apr 29 14:56	23° 8 06'02	
asc. node	10449 May 31 12:42	3° © 08'37					
evening max el	•				10450 May 03 23:19	0°II	
	10449 Jun 07 00:45	11° © 29'13	18°18'42	greatest brilliancy	10450 May 08 11:47	7° Ⅱ 07'39	-0.8m
retrograde	10449 Jun 07 00:45 10449 Jun 13 10:05	11° © 29'13 14° © 53'47	18°18'42	asc. node	10450 May 08 11:47 10450 May 18 09:49	7° П 07'39 21° П 34'50	
evening set	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10	11°©29'13 14°©53'47 14°©04'36		asc. node evening max el	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56	7° П 07'39 21° П 34'50 25° П 06'10	-0.8m 18°50'18
evening set inferior conj	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39	11°\$29'13 14°\$53'47 14°\$04'36 8°\$39'07	2°55'12	asc. node evening max el retrograde	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23	7°Щ07'39 21°Щ34'50 25°Щ06'10 28°Щ47'17	
evening set inferior conj minimum elong	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44	11°\$29'13 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07	2°55'12 2°54'20	asc. node evening max el retrograde evening set	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34	7°Щ07'39 21°Щ34'50 25°Щ06'10 28°Щ47'17 27°Щ43'03	18°50'18
evening set inferior conj minimum elong min. Earth dist.	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28	11°\$29'13 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33	2°55'12	asc. node evening max el retrograde evening set inferior conj	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08	7° П07'39 21° П34'50 25° П06'10 28° П47'17 27° П43'03 22° П01'46	18°50'18 3°14'01
evening set inferior conj minimum elong	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01	11°\$29'13 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26	2°55'12 2°54'20	asc. node evening max el retrograde evening set inferior conj minimum elong	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04	7° П07'39 21° П34'50 25° П06'10 28° П47'17 27° П43'03 22° П01'46 21° П58'49	18°50'18 3°14'01 3°13'27
evening set inferior conj minimum elong min. Earth dist. morning rise	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57	11°\$29'13 14°\$53'47 14°\$504'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII	2°55'12 2°54'20	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04 10450 Jun 07 20:56	7° Π07'39 21° Π34'50 25° Π06'10 28° Π47'17 27° Π43'03 22° Π01'46 21° Π58'49 19° Π48'03	18°50'18 3°14'01
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35	11°\$29'13 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII 29°II44'11	2°55'12 2°54'20	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04 10450 Jun 07 20:56 10450 Jun 11 16:53	7° П07'39 21° П34'50 25° П06'10 28° П47'17 27° П43'03 22° П01'46 21° П58'49 19° П48'03 15° П41'14	18°50'18 3°14'01 3°13'27
evening set inferior conj minimum elong min. Earth dist. morning rise	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58	11°929'13 14°953'47 14°904'36 8°939'07 8°933'07 5°953'33 2°922'26 30°RII 29°II44'11 29°II43'09	2°55'12 2°54'20	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37	7° \(\Pi\)07'39 21° \(\Pi\)34'50 25° \(\Pi\)06'10 28° \(\Pi\)47'17 27° \(\Pi\)43'03 22° \(\Pi\)01'46 21° \(\Pi\)58'49 19° \(\Pi\)48'03 15° \(\Pi\)41'14 12° \(\Pi\)56'49	18°50'18 3°14'01 3°13'27
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02	11°929'13 14°953'47 14°904'36 8°939'07 8°933'07 5°953'33 2°922'26 30°RII 29°II44'11 29°II43'09 0°9	2°55'12 2°54'20 0.64128 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 21 07:41	7° \(\Pi \) 07'39 21° \(\Pi \) 34'50 25° \(\Pi \) 06'10 28° \(\Pi \) 47'17 27° \(\Pi \) 43'03 22° \(\Pi \) 01'46 21° \(\Pi \) 58'49 19° \(\Pi \) 48'03 15° \(\Pi \) 41'14 12° \(\Pi \) 56'49 13° \(\Pi \) 32'08	18°50'18 3°14'01 3°13'27 0.65905 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02 10449 Jul 18 18:21	11°\$29'13 14°\$53'47 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°\$II 29°II44'11 29°II43'09 0°\$ 7°\$44'41	2°55'12 2°54'20	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 21 07:41 10450 Jul 01 05:01	7° \(\Pi\)07'39 21° \(\Pi\)34'50 25° \(\Pi\)06'10 28° \(\Pi\)47'17 27° \(\Pi\)43'03 22° \(\Pi\)01'46 21° \(\Pi\)58'49 19° \(\Pi\)48'03 15° \(\Pi\)41'14 12° \(\Pi\)56'49 13° \(\Pi\)32'08 20° \(\Pi\)43'53	18°50'18 3°14'01 3°13'27 0.65905 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02 10449 Jul 18 18:21 10449 Aug 04 22:17	11°\$29'13 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII 29°II44'11 29°II43'09 0°\$ 7°\$44'41 0°\$\Omega\$	2°55'12 2°54'20 0.64128 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 06 03:04 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 21 07:41 10450 Jul 01 05:01 10450 Jul 09 04:43	7° П07'39 21° П34'50 25° П06'10 28° П47'17 27° П43'03 22° П01'46 21° П58'49 19° П48'03 15° П41'14 12° П56'49 13° П32'08 20° П43'53 0° Ф	18°50'18 3°14'01 3°13'27 0.65905 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02 10449 Jul 18 18:21 10449 Aug 04 22:17 10449 Aug 22 03:41	11°\$29'13 14°\$53'47 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII 29°II44'11 29°II43'09 0°\$7 7°\$44'41 0°\$\Omega\$0°\$III	2°55'12 2°54'20 0.64128 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 21 07:41 10450 Jul 01 05:01 10450 Jul 09 04:43 10450 Jul 29 01:47	7° Π07'39 21° Π34'50 25° Π06'10 28° Π47'17 27° Π43'03 22° Π01'46 21° Π58'49 19° Π48'03 15° Π41'14 12° Π56'49 13° Π32'08 20° Π43'53 0° © 0° Ω	18°50'18 3°14'01 3°13'27 0.65905 AU
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evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist.	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02 10449 Jul 18 18:21 10449 Aug 04 22:17 10449 Aug 22 03:41 10449 Aug 22 20:00	11°\$29'13 14°\$53'47 14°\$53'47 14°\$04'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII 29°II44'11 29°II43'09 0°\$7 7°\$44'41 0°\$\Omega\$0°\$m\$1 1°\$m\$20'14	2°55'12 2°54'20 0.64128 AU 27°34'00	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 21 07:41 10450 Jul 01 05:01 10450 Jul 09 04:43 10450 Jul 29 01:47 10450 Aug 06 01:40	7° Π07'39 21° Π34'50 25° Π06'10 28° Π47'17 27° Π43'03 22° Π01'46 21° Π58'49 19° Π48'03 15° Π41'14 12° Π56'49 13° Π32'08 20° Π43'53 0° © 0° Ω 14° Ω26'12 22° Ω25'37	18°50'18 3°14'01 3°13'27 0.65905 AU 26°40'26
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evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node superior conj minimum elong	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02 10449 Jul 18 18:21 10449 Aug 04 22:17 10449 Aug 22 03:41 10449 Aug 22 03:41 10449 Aug 27 15:05 10449 Aug 30 20:51 10449 Aug 30 19:20 10449 Aug 30 19:20 10449 Sep 05 10:34 10449 Sep 06 21:19	11°\$29'13 14°\$53'47 14°\$53'47 14°\$53'47 14°\$53'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII 29°II44'11 29°II43'09 0°\$7 7°\$44'41 0°\$\Oldot{O}\$0\text{om}\$100'14 11°\$\text{m}\$05'40 10°\$\text{m}\$52'22 17°\$\text{m}\$57'40 17°\$\text{m}\$49'34 0°\$\Oldot\$ 3°\$\Oldot\$06'06 0°\$\text{IL}\$	2°55'12 2°54'20 0.64128 AU 27°34'00 1.32871 AU 0°32'40	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 21 07:41 10450 Jul 01 05:01 10450 Jul 09 04:43 10450 Jul 29 01:47 10450 Aug 10 04:25 10450 Aug 11 09:24 10450 Aug 14 20:25 10450 Aug 14 20:25 10450 Aug 14 20:11 10450 Aug 14 14:34	7° Π07'39 21° Π34'50 25° Π06'10 28° Π47'17 27° Π43'03 22° Π01'46 21° Π58'49 19° Π48'03 15° Π41'14 12° Π56'49 13° Π32'08 20° Π43'53 0° © 0° Ω 14° Ω26'12 22° Ω25'37 0° m 0° m 58'14 1° m 55'23 1° m 54'11 1° m 25'02 2° m 23'23 17° m 34'33	18°50'18 3°14'01 3°13'27 0.65905 AU 26°40'26 1.34313 AU
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise	10449 Jun 07 00:45 10449 Jun 13 10:05 10449 Jun 16 10:10 10449 Jun 22 07:39 10449 Jun 22 09:44 10449 Jun 24 17:28 10449 Jun 28 08:01 10449 Jul 02 18:57 10449 Jul 04 10:35 10449 Jul 04 23:58 10449 Jul 07 07:02 10449 Jul 18 18:21 10449 Aug 04 22:17 10449 Aug 22 03:41 10449 Aug 22 03:41 10449 Aug 27 15:05 10449 Aug 27 12:33 10449 Aug 30 20:51 10449 Aug 30 19:20 10449 Sep 05 10:34 10449 Sep 06 21:19 10449 Sep 06 21:19	11°\$29'13 14°\$53'47 14°\$53'47 14°\$53'47 14°\$904'36 8°\$39'07 8°\$33'07 5°\$53'33 2°\$22'26 30°RII 29°II44'11 29°II43'09 0°\$7 7°\$44'41 0°\$\Omega\$0'05 1°\$\$120'14 11°\$\$105'40 10°\$\$52'22 17°\$\$57'40 17°\$\$149'34 0°\$\$2\$3°\$\Omega\$06'06 0°\$\$IL	2°55'12 2°54'20 0.64128 AU 27°34'00 1.32871 AU 0°32'40 0°32'14	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	10450 May 08 11:47 10450 May 18 09:49 10450 May 21 11:56 10450 May 28 04:23 10450 May 31 12:34 10450 Jun 06 02:08 10450 Jun 07 20:56 10450 Jun 11 16:53 10450 Jun 18 02:37 10450 Jun 10 05:01 10450 Jul 01 05:01 10450 Jul 09 04:43 10450 Jul 29 01:47 10450 Aug 10 04:25 10450 Aug 11 09:24 10450 Aug 14 20:25 10450 Aug 14 20:25 10450 Aug 14 12:34 10450 Aug 15 01:49	7° Π07'39 21° Π34'50 25° Π06'10 28° Π47'17 27° Π43'03 22° Π01'46 21° Π58'49 19° Π48'03 15° Π41'14 12° Π56'49 13° Π32'08 20° Π43'53 0° © 0° Ω 14° Ω26'12 22° Ω25'37 0° m 0° m 58'14 1° m 55'23 1° m 55'21 1° m 25'02 2° m 23'23	18°50'18 3°14'01 3°13'27 0.65905 AU 26°40'26 1.34313 AU

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evening max el	10450 Sep 10 18:46	19° £ 35'05	21°11'35		10451 Aug 23 11:52	0° ∵	10052146
desc. node	10450 Sep 17 05:46	24° £ 15'54		evening max el	10451 Aug 24 01:22	0° ჲ 34'28	19°53'46
retrograde	10450 Sep 22 17:00	25° ⊆ 30'03		retrograde	10451 Sep 03 07:38	5° Ω 40'05	
evening set	10450 Sep 25 03:58	25° Ω 15'59		desc. node	10451 Sep 04 03:03	5° ≙ 38'18	
inferior conj	10450 Oct 04 07:04	21° ≙ 20'30		evening set	10451 Sep 05 05:02	5° ≙ 30'28	
minimum elong	10450 Oct 03 21:27	21° ≙ 34'02	4°41'34	inferior conj	10451 Sep 14 03:48	1° ≙ 29'41	
min. Earth dist.	10450 Oct 04 17:02	21° ≏ 06'28	0.54612 AU	minimum elong	10451 Sep 13 19:42	1° ≏ 42'00	
morning rise	10450 Oct 12 15:28	17° ≏ 28'24		min. Earth dist.	10451 Sep 16 02:44	0° 亞 18'18	0.55126 AU
direct	10450 Oct 16 12:47	16° ≏ 55'50			10451 Sep 16 15:01	30°R, Mp	
morning max el	10450 Oct 29 07:28	23° ≏ 02'28	22°39'01	morning rise	10451 Sep 22 08:52	27° m 13'49	
	10450 Nov 04 10:20	0° M ₊		direct	10451 Sep 27 01:20	26° Mp 25'50	
asc. node	10450 Nov 10 09:53	9°M03'12			10451 Oct 06 21:53	0∘ ⊽	
morning set	10450 Nov 20 13:26	28°M40'01		morning max el	10451 Oct 10 19:02	3° ≏ 12'29	24°26'24
	10450 Nov 21 04:31	0° ∡ ¹		asc. node	10451 Oct 28 06:47	27° ≏ 52'33	
					10451 Oct 29 10:00	0°M⊾	
superior conj	10450 Nov 27 13:46	13° ∡ ¹41'36	1°38'35	morning set	10451 Nov 05 01:15	13°M27'25	
minimum elong	10450 Nov 27 14:32	13° ∡ ¹45'41	1°39'02				
max. Earth dist.	10450 Nov 30 23:03	20° ≯ ¹49'05	1.33889 AU	superior conj	10451 Nov 11 21:37	28°M22'59	1°39'34
evening rise	10450 Dec 05 13:21	0° る 04'53		minimum elong	10451 Nov 11 21:13	28° ML 20° 47	1°39'58
	10450 Dec 05 12:22	0°ಕ			10451 Nov 12 15:24	0° ∡ 7	
desc. node	10450 Dec 14 03:59	15° る 55'07		max. Earth dist.	10451 Nov 13 23:26	2° х 53′39	1.32610 AU
	10450 Dec 22 21:43	0° ≈		evening rise	10451 Nov 19 06:37	14° ∡ °01'40	
evening max el	10451 Jan 09 06:40	21° ≈ 49′22	27°09'03		10451 Nov 27 15:25	ರ∘ರ	
retrograde	10451 Jan 22 16:30	29° ≈ 11'54		desc. node	10451 Dec 01 01:01	5° る 52'56	
evening set	10451 Jan 29 09:19	26° ≈ 38'09			10451 Dec 17 23:39	0° ≈	
min. Earth dist.	10451 Feb 02 07:35	22° ≈ 53'52	0.65219 AU	evening max el	10451 Dec 22 18:38	5° ≈ 02'44	27°30'16
inferior conj	10451 Feb 04 13:02	20° ≈ 24'34	-0°36'23	retrograde	10452 Jan 05 11:49	12° ≈ 23'05	
minimum elong	10451 Feb 04 14:06	20° ≈ 21'35	0°35'34	evening set	10452 Jan 12 11:15	9° ≈ 54'22	
asc. node	10451 Feb 06 08:57	18° ≈ 25'06		min. Earth dist.	10452 Jan 16 05:32	6° ≈ 40'54	0.63467 AU
morning rise	10451 Feb 10 20:21	14° ≈ 52'43		inferior conj	10452 Jan 18 22:03	3° ≈ 58'39	-1°45'45
direct	10451 Feb 13 12:42	14° ≈ 14'22		minimum elong	10452 Jan 19 01:28	3°≈50'02	
morning max el	10451 Feb 19 22:05	17° ≈ 35'57	18°00'48		10452 Jan 23 08:54	30°R₹	
	10451 Mar 01 03:01	0°) €		asc. node	10452 Jan 24 06:08	29° ට 25'40	
morning set	10451 Mar 09 22:02	14°) 17'17		morning rise	10452 Jan 25 17:46	28° පි 42'16	
desc. node	10451 Mar 12 04:16	17°) 59'45		direct	10452 Jan 28 02:54	28° ට 14'48	
dese. Hode	10451 Mar 19 13:54	0°Υ		ancet	10452 Feb 01 18:46	0°≈	
	10131 1144 17 13.31	0 1		morning max el	10452 Feb 03 15:38	1°≈36'42	17°47'34
superior conj	10451 Mar 24 07:58	7° Ƴ 34'14	-1°22'18	morning set	10452 Feb 20 00:52	26°≈35'34	17 1731
minimum elong	10451 Mar 23 23:13	6° Υ 59'39		morning set	10452 Feb 22 00:32	0° ∺	
max. Earth dist.	10451 Mar 27 16:47	12° Υ '52'36	1.45463 AU	desc. node	10452 Feb 27 01:01	8° ∺ 33'43	
max. Lartii dist.	10451 Apr 07 17:05	0°8	1.43403 AC	desc. node	10432100 27 01.01	0 1 33 43	
evening rise	10451 Apr 09 10:46	2° 8 40'47		superior conj	10452 Mar 03 12:17	17° ∺ 39'09	0.40,06
greatest brilliancy	10451 Apr 23 01:59	23° 8 25'33	-0.7m	minimum elong	10452 Mar 03 08:01	17° H 21'42	
greatest offinality	10451 Apr 27 15:34	0° Ⅱ	-0.7111	max. Earth dist.	10452 Mar 09 11:33	27° H 17'40	1.44569 AU
evening max el	10451 May 04 18:39	8° Ⅱ 47'37	10038125	max. Earth dist.	10452 Mar 11 04:28	2/ γ (1/40)	1.44309 AU
asc. node	10451 May 05 06:57	9° П 17'58	19 36 23	evening rise	10452 Mar 18 22:08	12° Υ '02'49	
retrograde	10451 May 12 02:05	9 П 17 38 12° П 57'03		evening rise	10452 Mar 30 20:18	0° 8	
evening set	10451 May 15 18:57	12 H 3703		evening max el	10452 Apr 16 19:46	22° 8 30'25	20°41'01
inferior conj	10451 May 15 18.57	5° Ⅱ 41'17	2017154	asc. node	10452 Apr 10 19.40 10452 Apr 21 04:08	26° 8 04'52	20 41 01
·		5° Ⅱ 42'02		retrograde	10452 Apr 25 00:50	20 804 32 27°8 17'38	
minimum elong	10451 May 21 03:34	3 ∏ 42 02 4° ∏ 08'36	0.67260 AU	•	10452 Apr 29 03:12	25° 8 41'54	
min. Earth dist.	10451 May 22 07:42		0.07200 AU	evening set	•		3°09'30
	10451 May 25 19:31	30°R8		inferior conj	10452 May 04 10:03	19° 8 33'17	
morning rise	10451 May 26 11:51	29° 8 21'19		minimum elong	10452 May 04 08:51	19° 8 37'26	3°09'00
direct	10451 Jun 01 11:22	26° 8 42'29		min. Earth dist.	10452 May 04 23:58	18° 8 45'20	0.68151 AU
desc. node	10451 Jun 08 04:43	29° 8 16'29		morning rise	10452 May 09 14:16	13° 8 16'17	
	10451 Jun 09 04:31	0°II	25025102	direct	10452 May 15 01:13	10° 8 51'20	
morning max el	10451 Jun 13 15:04	3° Ⅱ 59'30	25°25'03	desc. node	10452 May 25 01:41	16° 8 28'13	22057146
	10451 Jul 03 12:14	0°95		morning max el	10452 May 26 00:40	17° 8 24'57	25~57/46
morning set	10451 Jul 19 16:15	26°9547'55			10452 Jun 05 12:16	0°II	
P 4 5	10451 Jul 21 10:23	0°N	1 2/212 177		10452 Jun 25 13:10	0.20 0.20	
max. Earth dist.	10451 Jul 23 07:43	3° Ω 30'45	1.36212 AU	morning set	10452 Jun 30 10:53	8°513'26	
				max. Earth dist.	10452 Jul 04 05:20	14°9547'58	1.38420 AU
superior conj	10451 Jul 29 11:01	15° Ω 24'04					4000::-
minimum elong	10451 Jul 29 12:42	15° Ω 32'28	0°27'06	superior conj	10452 Jul 11 13:08	28°915'26	
asc. node	10451 Aug 01 06:15	21° Ω 02'16		minimum elong	10452 Jul 11 17:09	28°534'29	1~00'03
	10451 Aug 05 15:36	0° m)			10452 Jul 12 11:06	0° Ω	
evening rise	10451 Aug 06 13:03	1° m 49'16		asc. node	10452 Jul 18 03:08	11° Ω 00'55	

evening rise	10452 Jul 20 12:36	15° Ω 43'28		evening rise	10453 Jul 04 02:20	29° © 07'34	
	10452 Jul 28 02:26	0° m)			10453 Jul 04 13:30	0 $^{\circ}$ Ω	
evening max el	10452 Aug 05 21:06	12° Mp 20'30	18°56'55	asc. node	10453 Jul 05 00:03	0° Ω 49'33	
retrograde	10452 Aug 14 12:59	16° Mp 39'33		evening max el	10453 Jul 20 02:45	24° Ω 47'09	18°21'08
evening set	10452 Aug 16 10:30	16° m) 27'56		retrograde	10453 Jul 27 13:14	28° Ω 31'31	
desc. node	10452 Aug 21 00:18	14° m/36'52		evening set	10453 Jul 29 17:05	28°Ω13'22	
	-	12° m) 11'06	1000112	inferior conj		23°Ω36'31	0°30'56
inferior conj	10452 Aug 24 17:20			3	10453 Aug 06 04:30		
minimum elong	10452 Aug 24 14:23	12° Mp 16'18	1°08'14	minimum elong	10453 Aug 06 05:34	23° Ω 34'19	0°30'11
min. Earth dist.	10452 Aug 27 16:46	10°M)06'08	0.56498 AU	desc. node	10453 Aug 07 21:33	22° Ω 11′28	
morning rise	10452 Sep 01 15:03	7° Mp 18'28		min. Earth dist.	10453 Aug 09 13:05	20° Ω 51'46	0.58476 AU
direct	10452 Sep 07 02:35	6° ™ 07'17		morning rise	10453 Aug 13 14:33	18° Ω 08'00	
morning max el	10452 Sep 21 08:12	13° Mp 26'43	26°04'32	direct	10453 Aug 19 18:28	16° Ω 27'26	
Č	10452 Oct 04 09:20	$0 \circ \overline{\mathbf{v}}$		morning max el	10453 Sep 03 03:28	24° Ω 10'47	27°16'56
asc. node	10452 Oct 14 03:38	ა — 17° ჲ 10'04		morning must vi	10453 Sep 08 10:40	0° mp	2, 1000
		28° ⊆ 09'40			-	0° <u>م</u>	
morning set	10452 Oct 19 12:14				10453 Sep 27 13:43		
	10452 Oct 20 08:48	0° M		asc. node	10453 Oct 01 00:27	6° Ω 47'35	
				morning set	10453 Oct 03 20:43	12° ≏ 41'31	
superior conj	10452 Oct 26 08:24	13°ML10'16	1°34'33				
minimum elong	10452 Oct 26 07:02	13°M02'39	1°34'47	superior conj	10453 Oct 10 20:11	27° ≏ 57'04	1°23'56
max. Earth dist.	10452 Oct 27 05:54	15°M09'17	1.31796 AU	minimum elong	10453 Oct 10 18:09	27° ₽ 45'50	1°23'54
evening rise	10452 Nov 02 07:50	28°M18'29		max. Earth dist.	10453 Oct 10 15:06	27° ≏ 28'48	1.31460 AU
e vennig nise	10452 Nov 03 03:20	0°×7'		man. Darun dige.	10453 Oct 11 18:15	0°M	1.51.00110
desc. node	10452 Nov 16 22:06	25° ∡ 23′15		evening rise	10453 Oct 17 14:31	12°M48'20	
	10452 Nov 19 21:15	0°ಕ			10453 Oct 26 05:48	0° ∡	
evening max el	10452 Dec 04 02:41	17° る 39'43	27°20'09	desc. node	10453 Nov 03 19:16	14° ∡ 15′02	
retrograde	10452 Dec 17 23:37	24° る 54'16		evening max el	10453 Nov 16 04:19	29° ∡ ¹29'44	26°36'01
evening set	10452 Dec 24 23:52	22° る 39'25			10453 Nov 16 17:20	0°る	
min. Earth dist.	10452 Dec 28 17:06	19° る 50'28	0.61462 AU	retrograde	10453 Nov 30 02:46	6° る 37'10	
inferior conj	10452 Dec 31 18:22	17° る 07'28		evening set	10453 Dec 06 19:08	4° පි 46'15	
	10453 Jan 01 00:24	16°る54'00	2°57'40	min. Earth dist.	10453 Dec 10 18:12		0.59339 AU
minimum elong			2 3/40				
morning rise	10453 Jan 08 03:31	12° ろ 09'49		inferior conj	10453 Dec 13 22:31	29° ∡ ′42′02	
direct	10453 Jan 10 07:54	11° る 49'39		minimum elong	10453 Dec 14 06:23	29° ∡ ¹26'42	4°11'27
asc. node	10453 Jan 10 03:17	11° る 49'49			10453 Dec 13 13:21	30°₽ ⋌ 7	
morning max el	10453 Jan 17 07:54	15° る 21'30	17°52'21	morning rise	10453 Dec 21 20:18	25° ∡ ¹05'45	
	10453 Jan 27 11:40	0° ≈		direct	10453 Dec 23 23:35	24° ∡ °49′25	
morning set	10453 Feb 01 23:55	9° ≈ 50'47		asc. node	10453 Dec 28 00:22	25° ∡ 50'54	
				morning max el	10453 Dec 31 19:17	28° х 40'43	18°16'33
	10453 Feb 12 17:34	20055120	0001120	morning max cr		0° る	10 10 33
superior conj		28°≈55'28	0°01'20		10454 Jan 02 01:35		
minimum elong	10453 Feb 12 17:43	28°≈56'05	0°01'37	morning set	10454 Jan 16 13:24	23° る 45'59	
behind sun begin	10453 Feb 12 09:20	28° ≈ 19'57			10454 Jan 19 20:18	0° ≈	
behind sun end	10453 Feb 13 02:06	29° ≈ 32'06					
desc. node	10453 Feb 12 21:45	29° ≈ 13′28		superior conj	10454 Jan 25 22:08	11° ≈ 17'27	0°36'45
	10453 Feb 13 08:36	0° ∀		minimum elong	10454 Jan 26 00:41	11° ≈ 29'00	0°36'46
max. Earth dist.	10453 Feb 20 02:23	11° ∺ 17'04	1.43053 AU	desc. node	10454 Jan 30 18:33	19° ≈ 55'43	
evening rise	10453 Feb 26 16:23	21°) 49'28		max. Earth dist.	10454 Feb 02 12:13	24° ≈ 38'20	1.41091 AU
evening rise		0° Υ		max. Earth dist.		0° ∀	1.41071710
	10453 Mar 03 23:20				10454 Feb 05 16:55		
	10453 Mar 25 04:11	0°8		evening rise	10454 Feb 07 04:44	2°) €27'08	
evening max el	10453 Mar 30 15:23	6° 8 13'41	21°54'39		10454 Feb 25 07:38	0° Υ	
asc. node	10453 Apr 08 01:21	11° 8 39'44		evening max el	10454 Mar 13 07:06	19° Ƴ 59'48	23°14'21
retrograde	10453 Apr 08 22:44	11° 8 43'38		retrograde	10454 Mar 23 18:13	26° Y 10′52	
evening set	10453 Apr 13 11:32	9° 8 52'35		asc. node	10454 Mar 25 22:35	25° Ƴ 47'59	
inferior conj	10453 Apr 18 18:39	3° 8 33'30	2°50'27	evening set	10454 Mar 28 18:25	24° Y 05'31	
minimum elong	10453 Apr 18 16:46	3° 8 40'05	2°49'50	min. Earth dist.	10454 Apr 02 16:26	18° Y 18'04	0.68580 AU
min. Earth dist.	-	3° 8 30'14		inferior conj	•	17° Υ 39'11	2°21'41
IIIII. Eartii dist.	10453 Apr 18 19:35	_	0.08383 AU		10454 Apr 03 03:42		
	10453 Apr 21 10:15	30° Ŗ ♈		minimum elong	10454 Apr 03 01:31	17° Y 46'44	2°20'58
morning rise	10453 Apr 23 21:50	27° Y ′21′05		morning rise	10454 Apr 08 08:32	11° Y 32'37	
direct	10453 Apr 28 19:18	25° Y 15'08		direct	10454 Apr 12 16:35	9° Ƴ 48'08	
	10453 May 07 12:10	9° 8		morning max el	10454 Apr 21 03:45	14° Y 40'19	21°04'39
morning max el	10453 May 08 11:48	0° 8 57'40	22°28'11	desc. node	10454 Apr 28 19:23	23° Y ′44'22	
desc. node	10453 May 11 22:33	4° 8 43'12	-		10454 May 03 09:17	0°8	
acse. Houc	10453 May 30 08:58	4 O 43 12 0° Ⅱ		morning set	10454 May 21 20:00	27° 8 35'32	
	•			morning set			
morning set	10453 Jun 11 04:32	18° Ⅱ 29'40	1.40=00.4==		10454 May 23 08:44	0°П	1 10==0 :=
max. Earth dist.	10453 Jun 16 03:20	26° Ⅱ 42'48	1.40700 AU	max. Earth dist.	10454 May 29 06:55	9° Ⅱ 30'11	1.42778 AU
	10453 Jun 18 01:37	0 \circ \odot					
				superior conj	10454 Jun 05 10:33	21° Ⅱ 24'30	-1°58'17
superior conj	10453 Jun 23 22:28	10°9518'38	-1°32'12	minimum elong	10454 Jun 05 16:35	21° Ⅲ 50′12	1°58'19
minimum elong	10453 Jun 24 04:29	10°5945'40			10454 Jun 10 09:58	0.ಪ	
	-0.00 Juli 27 07.27	15 40			-0.0.0011 10 07.50	~ -	

evening rise	10454 Jun 17 02:06	11° © 51'23		minimum elong	10455 May 17 00:21	1° Ⅱ 35'27	2°12'36
asc. node	10454 Jun 21 21:02	20° © 23'42		evening rise	10455 May 30 06:59	23° I I43'39	2 12 30
asc. node	10454 Jun 27 14:52	20 3 23 4 2 0°Ω		evening rise	10455 Jun 02 23:18	0°9	
evening max el	10454 Jul 03 14:20	7° Ω 45'06	18°05'21	asc. node	10455 Jun 08 18:05	9° © 37'30	
retrograde	10454 Jul 10 06:37	11° Ω 09'56	10 00 21	evening max el	10455 Jun 17 04:08	21° © 04'23	18°08'36
evening set	10454 Jul 12 18:25	10° Ω 41'31		retrograde	10455 Jun 23 13:04	24°524'49	10 00 50
inferior conj	10454 Jul 19 12:09	5° Ω 44'33	1°46'03	evening set	10455 Jun 26 08:46	23°5643'34	
minimum elong	10454 Jul 19 14:50	5° Ω 38'07	1°44'46	inferior conj	10455 Jul 02 12:29	18° © 27'53	2°36'10
min. Earth dist.	10454 Jul 22 17:13	2° Ω 42′03	0.60732 AU	minimum elong	10455 Jul 02 15:03	18° 5 20'54	2°35'05
desc. node	10454 Jul 25 18:46	0° Ω 12'43		min. Earth dist.	10455 Jul 05 06:19	15° © 30'47	0.62953 AU
morning rise	10454 Jul 26 08:31	29° 5 49'32		morning rise	10455 Jul 08 19:37	12° © 16'48	
	10454 Jul 26 02:11	30° ₹ 5		desc. node	10455 Jul 12 15:56	10°9512'44	
direct	10454 Aug 01 22:47	27°5940'10		direct	10455 Jul 15 12:53	9° 5 45'43	
	10454 Aug 09 06:33	0 $^{\circ}\Omega$		morning max el	10455 Jul 29 13:07	17° 5 48'11	27°51'23
morning max el	10454 Aug 16 05:36	5° Ω 37'45	27°53'18		10455 Aug 08 17:45	$0 {\circ} \Omega$	
	10454 Sep 03 11:54	0° m			10455 Aug 27 07:51	0° m	
asc. node	10454 Sep 17 21:15	26° Mp 39'13		morning set	10455 Sep 01 22:32	10° Mp 53′26	
morning set	10454 Sep 18 00:52	26° m 57'57		asc. node	10455 Sep 04 18:04	16° Mp 40'09	
79 of 18 o	10454 Sep 19 11:37	0∘ ʊ	1.01615.433	max. Earth dist.	10455 Sep 07 03:23	21°Mp43'14	1.32271 AU
max. Earth dist.	10454 Sep 23 23:30	9° ≏ 43'20	1.31617 AU		10455 0 00 15 24	270 m. 0711 2	0047150
	10454 9 25 07-09	120 0 27/52	1907150	superior conj	10455 Sep 09 15:24	27° m 07'13	0°46'58
superior conj	10454 Sep 25 07:08	12° Ω 37'52 12° Ω 25'28	1°07'59 1°07'42	minimum elong	10455 Sep	26° № 56'36 0° <u>Ω</u>	0°46'32
minimum elong evening rise	10454 Sep 25 04:53 10454 Oct 02 00:34	12 ≗ 23 28 27° ₽ 25'20	1 07 42	evening rise	10455 Sep 10 23:04 10455 Sep 16 12:04	0 <u>₽</u> 12° ₽ 04'06	
evening rise	10454 Oct 02 00:34 10454 Oct 03 05:34	0°M		evening rise	10455 Sep 25 12:03	0°M	
	10454 Oct 20 01:35	0°×7		desc. node	10455 Oct 08 13:45	18° M 56'09	
desc. node	10454 Oct 21 16:29	2° × 12'50		evening max el	10455 Oct 10 09:24	20°M47'37	23°44'14
evening max el	10454 Oct 28 21:58	10° ₹ 1230	25°20'26	retrograde	10455 Oct 23 22:34	27°M33'30	23
retrograde	10454 Nov 11 19:04	17° × 127'38	20 20 20	evening set	10455 Oct 28 12:53	26°M47'28	
evening set	10454 Nov 17 16:13	16° ₹ '08'42		min. Earth dist.	10455 Nov 03 19:41	23°M46'05	0.55698 AU
min. Earth dist.	10454 Nov 22 10:07	13° ∡ ¹29'15	0.57322 AU	inferior conj	10455 Nov 05 19:42	22°M34'26	
inferior conj	10454 Nov 25 07:16	11° ∡ ³32'34	-5°15'26	minimum elong	10455 Nov 05 20:37	22°M33'04	5°44'35
minimum elong	10454 Nov 25 14:04	11° ≮ 21′02	5°13'47	morning rise	10455 Nov 14 06:15	18°M39'43	
morning rise	10454 Dec 03 14:13	7° ∡ 18'33		direct	10455 Nov 17 01:04	18°M20'21	
direct	10454 Dec 05 21:55	7° ∡ ¹02'31		morning max el	10455 Nov 27 12:10	23°M17'29	20°10'08
asc. node	10454 Dec 14 21:25	11° ∡ ¹21'31		asc. node	10455 Dec 01 18:25	28°M06'58	
morning max el	10454 Dec 14 21:52	11° ∡ 22'37	19°02'00		10455 Dec 03 03:30	0° ∡ ¹	
	10454 Dec 27 08:16	0° ට		morning set	10455 Dec 15 18:29	22° ∡ ⁴44'38	
morning set	10454 Dec 31 12:43	8° る 07'10			10455 Dec 19 07:19	0°ರ	
superior conj	10455 Jan 08 21:12	24° る 30'50	1°04'10	superior conj	10455 Dec 23 10:01	8° る 22'32	1°23'26
minimum elong	10455 Jan 09 00:18	24° ♂ 45'44	1°04'15	minimum elong	10455 Dec 23 12:34	8°る35'20	1°23'41
minimum ciong	10455 Jan 11 18:48	0°≈	1 0415	max. Earth dist.	10455 Dec 29 01:48	19°る26'34	1.36749 AU
max. Earth dist.	10455 Jan 15 18:45	7°≈18'31	1.38908 AU	evening rise	10456 Jan 01 20:38	26° පි 27'48	1.507 15110
desc. node	10455 Jan 17 15:25	10°≈36'27		<i>y</i>	10456 Jan 03 20:02	0° ≈	
evening rise	10455 Jan 19 14:40	14° ≈ 01'34		desc. node	10456 Jan 04 12:21	1°≈11'55	
C	10455 Jan 29 09:16	0° ∀			10456 Jan 22 20:43	0°)	
	10455 Feb 20 06:43	$0^{\circ}\mathbf{\Upsilon}$		evening max el	10456 Feb 06 10:20	17°) € 38'53	25°46'29
evening max el	10455 Feb 23 20:55	3° Ƴ 49'05	24°33'58	retrograde	10456 Feb 18 21:03	24°) (46′48	
retrograde	10455 Mar 07 09:59	10° Ƴ 33'45		evening set	10456 Feb 24 21:31	22°) 18′46	
evening set	10455 Mar 12 22:16	8° Ƴ 15'42		asc. node	10456 Feb 27 17:05	19°) 28′40	
asc. node	10455 Mar 12 19:50	8° Y 20′50		min. Earth dist.	10456 Feb 29 04:33	17°) 41′28	0.67316 AU
min. Earth dist.	10455 Mar 17 12:10	3° Y 03′24	0.68152 AU	inferior conj	10456 Mar 01 15:32	15° ∺ 50′50	0°56'21
inferior conj	10455 Mar 18 11:18	1° Ƴ 46′09	1°43'36	minimum elong	10456 Mar 01 14:12	15° ¥ 55′05	0°56'00
minimum elong	10455 Mar 18 09:16	1° Y 52'57	1°42'57	morning rise	10456 Mar 07 07:25	10°) € 00'43	
	10455 Mar 19 19:34	30° ₹		direct	10456 Mar 10 15:06	8° ¥ 57'37	
morning rise	10455 Mar 23 20:24	25°) 46′57		morning max el	10456 Mar 17 10:14	12°) 39′24	18°56'26
direct	10455 Mar 27 15:44	24° H 23'58	10052100	,	10456 Mar 30 09:06	0° Υ	0.0
morning max el	10455 Apr 04 03:06	28°) 34'40	19°53'00	greatest brilliancy	10456 Mar 31 06:43	1°Υ22'09	-0.8m
daga m-J-	10455 Apr 05 11:55	0°Υ 12°Υ19147		desc. node	10456 Apr 01 12:58	3°Υ17'42	
desc. node	10455 Apr 15 16:11	13° Y 18'47		morning set	10456 Apr 09 01:30	14° Y 55'37	
morning act	10455 Apr 26 20:52	0° と 6° と 02'09		mov Forth Ji-4	10456 Apr 18 17:54	0°8	1 45200 411
morning set max. Earth dist.	10455 Apr 30 19:27 10455 May 11 17:59	23° 8 08'02	1.44402 AU	max. Earth dist.	10456 Apr 23 10:50	7° 8 21'40	1.45390 AU
max. Darui dist.	10455 May 16 00:47	0° Ⅱ	1. 111 02 AU	superior conj	10456 Apr 25 12:48	10° 8 37'54	-2°07'49
	10733 May 10 00.4/	ν н		minimum elong	10456 Apr 25 07:25	10 8 37 34	
superior conj	10455 May 16 22:22	1° Ⅱ 27'25	-2°12'12	minimum ciong	10456 May 07 16:29	0°II	20133
	10 22.22		·		5.25.3mj 01 10.27		

evening rise	10456 May 10 12:52	4° Ⅱ 36'52			10457 Mar 23 09:58	0° Ƴ	
asc. node	10456 May 25 15:10	28° Ⅲ 23'32					
	10456 May 26 19:22	0 \circ 50		superior conj	10457 Apr 04 18:57	19° Ƴ 33'56	
evening max el	10456 May 30 16:57	4° © 36'22	18°30'02	minimum elong	10457 Apr 04 09:27	18° Y ′56'42	1°42'38
retrograde	10456 Jun 06 04:11	8° © 06'24		max. Earth dist.	10457 Apr 06 06:25	21° Y 52'39	1.45646 AU
evening set	10456 Jun 09 07:44	7° © 10'46			10457 Apr 11 11:15	0°8	
inferior conj	10456 Jun 15 01:22	1° 9 38'07	3°05'13	evening rise	10457 Apr 20 19:27	14° 8 35'04	
minimum elong	10456 Jun 15 03:00	1° © 33'15	3°04'30		10457 Apr 30 17:15	0°Щ	
	10456 Jun 16 10:04	30°RⅡ		greatest brilliancy	10457 May 01 20:48	1° Ⅱ 45'23	-0.8m
min. Earth dist.	10456 Jun 17 04:44	29° Ⅱ 04'57	0.64928 AU	asc. node	10457 May 12 12:18	16° Ⅲ 33'09	
morning rise	10456 Jun 20 21:19	25° Ⅱ 19'13		evening max el	10457 May 14 02:20	18° Ⅱ 15'35	19°08'48
direct	10456 Jun 27 11:07	22° Ⅱ 36'44		retrograde	10457 May 21 00:23	22° Ⅱ 07'49	
desc. node	10456 Jun 28 13:03	22° Ⅱ 40'42		evening set	10457 May 24 12:07	20° Ⅱ 56'59	2017/10
marning may al	10456 Jul 10 10:09 10456 Jul 10 23:31	0°© 0°©33'21	27914120	inferior conj	10457 May 29 23:16 10457 May 29 23:43	15° Ⅱ 09'05 15° Ⅱ 07'41	3°17'19 3°16'49
morning max el	10456 Aug 01 18:39	0 333 21 0°Ω	27 14 39	minimum elong min. Earth dist.	10457 May 29 25.45 10457 May 31 11:36	13° Д 0/41 13° Д 12'06	0.66530 AU
morning set	10456 Aug 15 10:57	24° Ω 19'44		morning rise	10457 Jun 04 10:47	8° Ⅱ 48'09	0.00330 AC
morning set	10456 Aug 18 07:46	0° m)		direct	10457 Jun 10 16:24	6° Ц 05'06	
max. Earth dist.	10456 Aug 19 22:59	3° m)19'10	1.33426 AU	desc. node	10457 Jun 15 10:05	7° П 21'56	
asc. node	10456 Aug 21 14:53	6° Mp 45'12	1.55 120 110	morning max el	10457 Jun 23 10:17	13° II 41'52	26°10'33
use. Houe	10.001148 21 11.00	0 1.2 1.2		morning must vi	10457 Jul 06 15:24	0°9	20 1033
superior conj	10456 Aug 23 18:47	11° m)17'55	0°21'15		10457 Jul 25 12:22	0°N	
minimum elong	10456 Aug 23 17:44	11° mp 12'21	0°20'50	morning set	10457 Jul 29 10:44	7° Ω 08'26	
evening rise	10456 Aug 30 23:00	26° m) 37'48		max. Earth dist.	10457 Aug 02 07:59	14° Ω 31'19	1.35069 AU
•	10456 Sep 01 13:30	0∘ ⊽			•		
	10456 Sep 19 23:51	0° M		superior conj	10457 Aug 07 14:51	25° Ω 03'54	-0°08'32
evening max el	10456 Sep 20 21:52	0°M55'50	22°04'22	minimum elong	10457 Aug 07 15:22	25° Ω 06'30	0°08'46
desc. node	10456 Sep 24 11:02	3°M57'03		behind sun begin	10457 Aug 07 10:17	24° Ω 40'35	
retrograde	10456 Oct 03 14:44	7°M15'17		behind sun end	10457 Aug 07 20:26	25° Ω 32'26	
evening set	10456 Oct 06 17:49	6°M53′28		asc. node	10457 Aug 08 11:43	26° Ω 50'47	
min. Earth dist.	10456 Oct 15 02:49	3°M₁3′03	0.54754 AU		10457 Aug 10 00:23	0° ™	
inferior conj	10456 Oct 15 16:13	2°M54'15		evening rise	10457 Aug 15 07:24	11° m)01'04	
minimum elong	10456 Oct 15 09:08	3°M04'13	5°21'36		10457 Aug 25 06:07	0∘ ಹ	
	10456 Oct 21 09:48	30° ₽ Ω		evening max el	10457 Sep 02 20:30	11° ≏ 30'08	20°36'02
morning rise	10456 Oct 24 01:56	29° ₾ 07'10		desc. node	10457 Sep 11 08:17	16° ≏ 45'31	
direct	10456 Oct 27 12:42	28° ≏ 40'53		retrograde	10457 Sep 14 02:42	17° 2 05'18	
	10456 Nov 02 07:40	0°M	21020150	evening set	10457 Sep 16 05:30	16° £ 54'17	4005100
morning max el	10456 Nov 08 12:54	4°M21'21	21°39'58	inferior conj	10457 Sep 25 08:37	12° £ 57'59	
asc. node	10456 Nov 17 15:21 10456 Nov 25 12:10	15°M50'51 0° <i>₹</i> 7		minimum elong min. Earth dist.	10457 Sep 24 22:50	13° Ω 12'06 12° Ω 19'36	4°02′10 0.54711 AU
morning set	10456 Nov 29 04:08	0 x . 7° ∡ 130′20		morning rise	10457 Sep 26 11:13 10457 Oct 03 15:52	8° £ 57'50	0.54/11 AU
morning set	10430 NOV 29 04.08	/ X 30 20		direct	10457 Oct 03 13:32 10457 Oct 07 20:56	8° 2 19'46	
superior conj	10456 Dec 06 08:35	22° ∡ ′40′38	1°35'04	morning max el	10457 Oct 07 20:30 10457 Oct 21 03:22	14° ≏ 44'38	23°24'41
minimum elong	10456 Dec 06 10:03	22° × ⁷ 48'19	1°35'28	morning max er	10457 Nov 01 23:02	0°M	23 24 41
g	10456 Dec 09 21:54	0°ਰ	1 30 20	asc. node	10457 Nov 04 12:15	4° M ₁9'36	
max. Earth dist.	10456 Dec 10 13:40	1° る 19'28	1.34824 AU	morning set	10457 Nov 13 15:38	22°M18'36	
evening rise	10456 Dec 14 19:07	9° ට 36'16		Ü	10457 Nov 17 05:19	0° ∡ ¹	
desc. node	10456 Dec 21 09:20	21° る 37'18					
	10456 Dec 26 09:01	0° ≈		superior conj	10457 Nov 20 13:47	7° ∡ 16′03	1°39'46
	10457 Jan 17 14:36	0° ∀		minimum elong	10457 Nov 20 14:03	7° ∡ 17′26	1°40'13
evening max el	10457 Jan 18 23:46	1° ¥ 22'29	26°44'46	max. Earth dist.	10457 Nov 23 09:15	13° ∡ 16′15	1.33285 AU
retrograde	10457 Feb 01 02:46	8°) 43′01		evening rise	10457 Nov 28 06:29	23° ∡ 18′11	
evening set	10457 Feb 07 14:21	6° ∺ 09'20			10457 Dec 01 17:13	0°ಕ	
min. Earth dist.	10457 Feb 11 15:25	2° ∺ 06′23	0.66087 AU	desc. node	10457 Dec 08 06:21	11° る 47'12	
	10457 Feb 13 10:27	30°R ≈			10457 Dec 20 00:46	0° ≈	
inferior conj	10457 Feb 13 14:18	29° ≈ 48'39	0°00'01	evening max el	10458 Jan 01 12:37	14° ≈ 50′09	27°21'32
minimum elong	10457 Feb 13 14:18	29° ≈ 48'41	0°00'18	retrograde	10458 Jan 15 02:21	22°≈13'25	
transit middle	10457 Feb 13 14:18	29°≈48'41	0°00'18	evening set	10458 Jan 21 22:30	19° ≈ 40'33	0.64506.433
transit begin	10457 Feb 13 11:21	29°≈57'21		min. Earth dist.	10458 Jan 25 18:43	16°≈09'59	0.64506 AU
transit end	10457 Feb 13 17:14	29°≈40'03		inferior conj	10458 Jan 28 05:09	13°≈33'31	
asc. node	10457 Feb 13 14:17	29°≈48'42		minimum elong	10458 Jan 28 07:08	13°≈28'10	1°03'44
morning rise direct	10457 Feb 19 15:22 10457 Feb 22 12:48	24°≈09'42 23°≈23'27		asc. node morning rise	10458 Jan 31 11:29 10458 Feb 03 17:34	10°≈18'10 8°≈08'07	
morning max el	10457 Feb 22 12.48 10457 Feb 28 23:36	25 ≈25 27 26°≈49'09	18°16'17	direct	10458 Feb 05 17.34 10458 Feb 06 06:27	8 ≈08 07 7°≈35'01	
morning max or	10457 Mar 03 19:49	20 ≈ 49 09	10 101/	morning max el	10458 Feb 12 16:30		17°53'01
desc. node	10457 Mar 19 09:44	23°) 34'32		morning max or	10458 Feb 25 20:40	0° ∺	1, 5501
morning set	10457 Mar 20 08:47	25°\(\frac{1}{3432}\)		morning set	10458 Mar 01 21:00	6°) 43'11	
	20 00.17	,(0000			01 21.00	. , (.5 11	

desc. node	10458 Mar 06 06:28	14° ¥ 03′28			10459 Jan 31 15:42	0° ≈	
		. , , , , , , , , , , , , , , , , , , ,		morning set	10459 Feb 12 09:20	19° ≈ 28'53	
superior conj	10458 Mar 15 11:12	29°) €03'46	-1°04'50	C	10459 Feb 18 09:46	0°) €	
minimum elong	10458 Mar 15 04:07	28° ¥ 35′21	1°03'51	desc. node	10459 Feb 21 03:14	4°){ 40'40	
_	10458 Mar 16 01:15	0° Υ					
max. Earth dist.	10458 Mar 20 01:43	6° Y ′22'48	1.45160 AU	superior conj	10459 Feb 24 02:01	9°) 39′11	-0°22'05
evening rise	10458 Mar 31 09:45	23° Y ′59'18		minimum elong	10459 Feb 23 23:49	9°) 29′59	0°21'31
	10458 Apr 04 08:08	9° 8		max. Earth dist.	10459 Mar 02 18:44	20°) € 37'56	1.43996 AU
greatest brilliancy	10458 Apr 15 09:05	16° 8 31'32	-0.6m		10459 Mar 08 16:42	0° Y	
	10458 Apr 25 11:02	Π °0		evening rise	10459 Mar 10 22:20	3° Y 28'14	
evening max el	10458 Apr 27 06:40	1° Ⅱ 57'39	20°03'28		10459 Mar 28 19:14	9° 8	
asc. node	10458 Apr 29 09:29	3° Ⅱ 54'16		evening max el	10459 Apr 10 05:27	15° 8 41'08	21°11'17
retrograde	10458 May 04 22:49	6° Ⅱ 22'36		asc. node	10459 Apr 16 06:40	20° 8 12'37	
evening set	10458 May 08 19:30	4° Ⅱ 56'09		retrograde	10459 Apr 18 21:18	20° 8 45'59	
	10458 May 13 07:47	30° ₹8		evening set	10459 Apr 23 03:58	19° 8 03'49	
inferior conj	10458 May 14 03:11	28° 8 54'41	3°15'43	inferior conj	10459 Apr 28 10:42	12° 8 50'42	3°02'38
minimum elong	10458 May 14 02:31	28° 8 56'58	3°15'16	minimum elong	10459 Apr 28 09:10	12° 8 56'01	3°02'05
min. Earth dist.	10458 May 15 01:05	27° 8 40'33	0.67693 AU	min. Earth dist.	10459 Apr 28 19:05	12° 8 21'37	0.68398 AU
morning rise	10458 May 19 09:14	22° 8 35'28		morning rise	10459 May 03 14:09	6° 8 35'26	
direct	10458 May 25 03:35	20° 8 01'30		direct	10459 May 08 19:32	4° 8 17'49	
desc. node	10458 Jun 02 07:04	23° 8 46'34		morning max el	10459 May 19 05:39	10° 8 29'52	23°19'14
morning max el	10458 Jun 05 20:00	27° 8 02'17	24°48'41	desc. node	10459 May 20 03:59	11° 8 27'31	
	10458 Jun 08 14:14	0°II			10459 Jun 03 16:26	0°П	
	10458 Jun 30 06:21	0°©		morning set	10459 Jun 23 01:53	0°9504'41	
morning set	10458 Jul 11 17:26	19°507'48	1 27122 177	The state of	10459 Jun 23 00:46	0°50	1 20 102 177
max. Earth dist.	10458 Jul 15 07:35	25°535'21	1.37123 AU	max. Earth dist.	10459 Jun 27 04:14	7° © 04'25	1.39402 AU
	10458 Jul 17 16:39	0 $^{\circ}\Omega$		gunariar agni	10450 Int. 04 20:06	200@40!40	1014!12
aumariar aani	10458 Jul 22 00:34	8° Ω 17'31	0941105	superior conj	10459 Jul 04 20:06 10459 Jul 05 01:05	20°549'49 21°512'53	
superior conj minimum elong	10458 Jul 22 00:34 10458 Jul 22 03:13	8°Ω30'28		minimum elong	10459 Jul 09 16:47	21 3 12 33	1 13 30
asc. node	10458 Jul 26 08:36	6 δ (30 28 16° Ω 52'57	0 4101	asc. node	10459 Jul 13 05:31	6° Ω 47'54	
evening rise	10458 Jul 30 10:57	25°Ω07'30		evening rise	10459 Jul 14 06:45	8° Ω 49'45	
evening rise	10458 Aug 01 21:45	0° m)		evening rise	10459 Jul 26 07:59	0°m)	
evening max el	10458 Aug 16 09:00	22° Mp 49'41	19°27'01	evening max el	10459 Jul 30 09:30	پرتا 4° m 54'16	18°39'11
retrograde	10458 Aug 25 22:15	27° m 34'09	17 27 01	retrograde	10459 Aug 07 11:13	8° m) 56'20	10 37 11
evening set	10458 Aug 27 18:22	27° m) 24'23		evening set	10459 Aug 09 11:15	8° Mp 42'19	
desc. node	10458 Aug 29 05:32	27° m) 03'23		desc. node	10459 Aug 16 02:48	5° m) 14'38	
inferior conj	10458 Sep 05 11:20	23° m) 18'09	-2°14'33	inferior conj	10459 Aug 17 09:50	4° m) 17'11	-0°23'56
minimum elong	10458 Sep 05 05:19	23° m) 27'50		minimum elong	10459 Aug 17 08:52	4° m) 19'00	
min. Earth dist.	10458 Sep 07 22:48		0.55613 AU	min. Earth dist.	10459 Aug 20 15:04	1° m 53'04	
morning rise	10458 Sep 13 13:48	18° m 47'12			10459 Aug 23 12:09	30°RΩ	
direct	10458 Sep 18 14:38	17° m 49'59		morning rise	10459 Aug 25 03:03	29° Ω 08'55	
morning max el	10458 Oct 02 14:41	24° m 52'27	25°10'21	direct	10459 Aug 30 22:23	27° Ω 45'30	
	10458 Oct 07 08:51	0∘ ⊽			10459 Sep 07 11:36	0° ™	
asc. node	10458 Oct 22 09:07	23° ഫ 22'03		morning max el	10459 Sep 14 05:49	5°Mp 15'39	26°39'21
	10458 Oct 25 18:01	0° M			10459 Oct 02 08:46	0∘ ⊽	
morning set	10458 Oct 29 03:18	7° M 04'34		asc. node	10459 Oct 09 05:57	12° ≏ 48'48	
				morning set	10459 Oct 13 13:24	21° ≏ 42'41	
superior conj	10458 Nov 04 23:09	22°M01'16	1°38'09		10459 Oct 17 08:55	0°M	
minimum elong	10458 Nov 04 22:19	21°M56'36	1°38'30				
max. Earth dist.	10458 Nov 06 12:24	25°M25'36	1.32200 AU	superior conj	10459 Oct 20 10:34	6° ™ 48'49	1°30'43
	10458 Nov 08 15:01	0° ∡		minimum elong	10459 Oct 20 08:53	6° ™ 39'24	1°30'50
evening rise	10458 Nov 12 03:29	7°×25'04		max. Earth dist.	10459 Oct 20 20:31	7°M44'10	1.31593 AU
	10458 Nov 24 04:39	0°る		evening rise	10459 Oct 27 07:19	21°M48'21	
desc. node	10458 Nov 25 03:25	1°る34'56	25020100		10459 Oct 31 07:08	0° ⊼ ¹	
evening max el	10458 Dec 14 23:20	27° る 50'43	27°30'09	desc. node	10459 Nov 12 00:32	20° ₹ 50′28	
natus a J-	10458 Dec 17 09:35	0°≈ 5°a ≈00!17		avanir 1	10459 Nov 18 08:16	0°る	27005141
retrograde	10458 Dec 28 18:52	5°≈09'17		evening max el	10459 Nov 27 05:13	10°る09'44 17°る20'29	27-05:41
evening set	10459 Jan 04 19:16 10459 Jan 08 05:20	2°≈45'31		retrograde	10459 Dec 11 02:56	1/°620'29 15° る 15'00	
min. Earth dist.	10459 Jan 08 05:20 10459 Jan 08 12:38	30°Rる 20°る43'12	0.62634 AU	evening set min. Earth dist.	10459 Dec 18 01:01 10459 Dec 21 19:47	13° ろ 13'00	0.60564 AU
inferior conj	10459 Jan 11 09:14	29 3 43 12 26° る 58'56		inferior conj	10459 Dec 24 23:07	9° る 54'43	
minimum elong	10459 Jan 11 13:46	26°る48'03		minimum elong	10459 Dec 25 06:08	9° る 39'56	
morning rise	10459 Jan 18 10:36	20 3 48 03 21° 3 49'56	2 17 77	morning rise	10460 Jan 01 13:50	5° る 05'31	5 2720
asc. node	10459 Jan 18 08:38	21° る 51'40		direct	10460 Jan 03 17:18	4°る47'18	
direct	10459 Jan 20 17:15	21°る26'05		asc. node	10460 Jan 05 05:44	4°る56'47	
morning max el	10459 Jan 27 09:56	24° ප් 51'27	17°47'15	morning max el	10460 Jan 11 00:31	8° る 26'19	18°00'08

morning set	10460 Jan 24 23:24 10460 Jan 26 15:13	0° ≈ 3° ≈ 03'28		morning set	10461 Jan 09 09:20 10461 Jan 16 01:23	17° る 10'52 0°≈	
superior conj	10460 Feb 05 17:42	21° ≈ 24'45	0°17'15	superior conj	10461 Jan 18 06:44	4°≈10'17	0°49'24
minimum elong	10460 Feb 05 19:07	21°≈31'00	0°17'23	minimum elong	10461 Jan 18 09:42	4°≈24'03	0°49'24
desc. node	10460 Feb 08 00:01	25°≈21'58	0 17 23	desc. node	10461 Jan 24 20:52	16° ≈ 03'54	0 1921
	10460 Feb 10 16:57	0° ∀		max. Earth dist.	10461 Jan 25 16:24	17° ≈ 29'00	1.40176 AU
max. Earth dist.	10460 Feb 13 07:56	4°) €24'09	1.42270 AU	evening rise	10461 Jan 29 20:53	24° ≈ 36′26	
evening rise	10460 Feb 18 23:28	13°) €35'08			10461 Feb 02 03:39	0°)	
	10460 Feb 29 15:43	0° Υ			10461 Feb 22 11:00	0° Y	
evening max el	10460 Mar 22 23:20	29° Y 26'05	22°28'09	evening max el	10461 Mar 05 13:54	13° Y 13'09	23°48'35
	10460 Mar 23 13:03	9° 8		retrograde	10461 Mar 16 12:17	19° Ƴ 39'40	
retrograde	10460 Apr 01 18:15	5° 8 13'20		asc. node	10461 Mar 20 01:08	18° Ƴ 40'41	
asc. node	10460 Apr 02 03:54	5° 8 12'33		evening set	10461 Mar 21 17:42	17° Y ′28′20	
evening set	10460 Apr 06 11:54	3° 8 15'57		min. Earth dist.	10461 Mar 26 11:58	11° Y ′56′07	0.68451 AU
	10460 Apr 09 12:40	30°R℃	2020122	inferior conj	10461 Mar 27 04:24	11° Υ '00'03	2°06'39
inferior conj	10460 Apr 11 19:45	26° Y 53'34	2°39'23	minimum elong	10461 Mar 27 02:13	11° Υ 07'30	2°05'56
minimum elong	10460 Apr 11 17:41	27° Υ 00'44 27° Υ 08'39	2°38'43	morning rise	10461 Apr 01 10:46	4° Υ 56'40 3° Υ 21'39	
min. Earth dist.	10460 Apr 11 15:25	2/°γ′08′39 20° Υ 43'43	0.68644 AU	direct morning max el	10461 Apr 05 13:15	7° Υ 54'38	20°32'30
morning rise direct	10460 Apr 16 23:20 10460 Apr 21 15:08	20 1 43 43 18° Υ 46'43		desc. node	10461 Apr 13 13:30 10461 Apr 22 21:41	19° Υ 20'30	20 32 30
morning max el	10460 Apr 30 18:26	24°Υ°06'28	21°51'28	desc. node	10461 Apr 30 08:29	0°8	
morning max ci	10460 May 05 23:34	0°8	21 31 20	morning set	10461 May 12 14:41	18° 8 33'09	
desc. node	10460 May 06 00:51	0° 8 03'57		morning sec	10461 May 19 21:18	0°II	
	10460 May 27 01:47	0°II		max. Earth dist.	10461 May 21 11:58	2° Ⅱ 35'05	1.43536 AU
morning set	10460 Jun 02 08:06	9° Ⅱ 49'55			,		
max. Earth dist.	10460 Jun 08 04:53	19° Ⅱ 23'54	1.41630 AU	superior conj	10461 May 27 22:51	13° Ⅱ 08'56	-2°06'04
	10460 Jun 14 10:34	0 \circ \odot		minimum elong	10461 May 28 03:45	13° Ⅲ 29′22	2°06'19
					10461 Jun 06 19:38	0 \circ 50	
superior conj	10460 Jun 15 20:59	2° © 30'18		evening rise	10461 Jun 09 07:31	4° © 22'07	
minimum elong	10460 Jun 16 03:23	2° © 58'24	1°44'09	asc. node	10461 Jun 15 23:30	15° © 57'46	
evening rise	10460 Jun 26 15:09	21°558'39			10461 Jun 25 14:11	0°N	
asc. node	10460 Jun 29 02:29	26°531'26		evening max el	10461 Jun 26 07:03	0° Ω 43'26	18°04'25
avanina may al	10460 Jul 01 00:22 10460 Jul 12 18:11	0°Ω 17°Ω35'50	18°12'00	retrograde	10461 Jul 02 19:09	4°Ω05'02 3°Ω31'32	
evening max el retrograde	10460 Jul 12 18:11 10460 Jul 19 19:28	21° Ω 10'06	18 12 00	evening set	10461 Jul 05 10:12 10461 Jul 10 07:26	30°R95	
evening set	10460 Jul 22 02:42	20°Ω47'53		inferior conj	10461 Jul 11 21:28	28°9526'14	2°10'08
inferior conj	10460 Jul 29 06:10	16° Ω 01'57	1°06'01	minimum elong	10461 Jul 12 00:16	28° © 19'10	2°08'54
minimum elong	10460 Jul 29 08:12	15° Ω 57'29	1°04'55	min. Earth dist.	10461 Jul 14 22:19	25°923'21	0.61692 AU
min. Earth dist.	10460 Aug 01 14:19	13° Ω 07'04	0.59422 AU	morning rise	10461 Jul 18 12:00	22° © 22'51	
desc. node	10460 Aug 02 00:02	12° Ω 47'04		desc. node	10461 Jul 19 21:14	21° © 30'49	
morning rise	10460 Aug 05 10:30	10° Ω 20'56		direct	10461 Jul 25 04:11	20° © 03'14	
direct	10460 Aug 11 19:34	8° Ω 28'01		morning max el	10461 Aug 08 09:10	28° 5 04'38	27°57'07
morning max el	10460 Aug 26 04:12	16° Ω 17'47	27°37'14		10461 Aug 10 05:38	0 $^{\circ}$ Ω	
	10460 Sep 06 10:05	0° ™			10461 Aug 31 05:23	0° ™	
	10460 Sep 23 20:35	0∘ ⊽		morning set	10461 Sep 10 21:58	20° Mp 16'57	
asc. node	10460 Sep 25 02:46	2° Ω 33'17		asc. node	10461 Sep 11 23:36	22° m/29'22	
morning set	10460 Sep 26 20:18	6° ≏ 08'46		max. Earth dist.	10461 Sep 15 12:29 10461 Sep 16 13:03	0° ೭ 2° ೭ 13'21	1.31833 AU
superior conj	10460 Oct 03 22:13	21° ჲ 33'39	1°17'48	max. Earth dist.	10401 Sep 10 13.03	2 = 1321	1.31633 AU
minimum elong	10460 Oct 03 22:13	21° ⊆ 33'39	1°17'39	superior conj	10461 Sep 18 08:14	6° ≏ 09'48	0°59'40
max. Earth dist.	10460 Oct 03 26:05	20° ⊆ 04'00	1.31471 AU	minimum elong	10461 Sep 18 06:03	5° ≏ 57'47	0°59'18
man zam ust.	10460 Oct 07 17:28	0°M	1.011,1110	evening rise	10461 Sep 25 02:34	20° ♀ 59'54	0 00 10
evening rise	10460 Oct 10 15:42	6°M22'02		Ü	10461 Sep 29 10:03	0°M₊	
C	10460 Oct 22 21:43	0° ∡ ″		desc. node	10461 Oct 15 18:59	26°M50'13	
desc. node	10460 Oct 28 21:44	9° ∡ 121'22			10461 Oct 18 12:34	0° ∡ ¹	
evening max el	10460 Nov 08 03:29	21° ₹ ³37'20	26°07'10	evening max el	10461 Oct 20 17:39	2° ∡ 15′24	24°40'59
retrograde	10460 Nov 22 01:21	28° ∡ ¹40'54		retrograde	10461 Nov 03 12:37	9° ∡ 10'42	
evening set	10460 Nov 28 11:20	27° ₹ 02'40		evening set	10461 Nov 08 21:57	8° ∡ 05'55	
min. Earth dist.	10460 Dec 02 16:23	24° ∡ *27'45	0.58458 AU	min. Earth dist.	10461 Nov 14 05:00	5° х 19′24	0.56561 AU
inferior conj	10460 Dec 05 19:16	22° х 11'02		inferior conj	10461 Nov 16 19:11	3° ∡ ′40′14	
minimum elong	10460 Dec 06 03:12	21° 🗷 56'30	4°40'16	minimum elong	10461 Nov 17 00:05	3° ⋌ ³32'23	5°32'11
morning rise	10460 Dec 13 21:34	17° × 44'23			10461 Nov 23 17:45	30°RM	
direct asc. node	10460 Dec 16 02:08	17° 🗷 28'30		morning rise direct	10461 Nov 25 04:27	29°M35'37 29°M18'45	
asc. node morning max el	10460 Dec 22 02:48 10460 Dec 24 08:35	19° х 37′02 21° х 30′27	18°33'14	uncet	10461 Nov 27 15:57 10461 Dec 01 10:02	29°11⊾18′45 0° √ 1	
morning max ci	10460 Dec 24 08.33 10460 Dec 30 21:35	21 x・3027 0°る	10 33 14	morning max el	10461 Dec 01 10.02		19°28'19
	10 100 Dec 50 21.55	υ O		morning max or	10101 Dec 07 00.22	J A JJ J1	1, 201,

_				_			
asc. node	10461 Dec 08 23:49	5° ∡ '41'15		asc. node	10462 Nov 25 20:48	22°M53'20	
	10461 Dec 23 15:46	0°ಕ			10462 Nov 30 08:18	0° ⊼	
morning set	10461 Dec 24 11:43	1° る 39'45		morning set	10462 Dec 08 19:22	16° ≯ 21'04	
					10462 Dec 15 08:59	0°ಕ	
superior conj	10462 Jan 01 12:12	17° る 41'43	1°13'19				
minimum elong	10462 Jan 01 15:11	17° る 56'14	1°13'27	superior conj	10462 Dec 16 05:34	1° る 45'37	1°29'15
	10462 Jan 07 23:54	0° ≈		minimum elong	10462 Dec 16 07:42	1° る 56'31	1°29'35
max. Earth dist.	10462 Jan 07 22:12	29° ප 52'11	1.37963 AU	max. Earth dist.	10462 Dec 21 06:27	11° る 49'41	1.35884 AU
evening rise	10462 Jan 11 15:39	6°≈33'46		evening rise	10462 Dec 25 05:06	19° ⋜ 19'11	
desc. node	10462 Jan 11 17:46	6° ≈ 43'00		desc. node	10462 Dec 29 14:41	27° ට 14'41	
dese. Hode	10462 Jan 26 02:03	0° ∀		dese. Hode	10462 Dec 31 04:52	0°≈	
evening max el	10462 Feb 16 03:14	27° ₩ 02'50	25°06'06		10463 Jan 20 04:27	0° \	
evening max er	10462 Feb 19 09:43	27 γ (02 30	25 00 00	evening max el	10463 Jan 29 16:41	10° ¥ 51′04	26012125
. 1		3° Υ 59'39		•			20 13 33
retrograde	10462 Feb 28 02:23			retrograde	10463 Feb 11 11:21	18° ¥ 06'05	
evening set	10462 Mar 05 19:50	1° Υ 36'48		evening set	10463 Feb 17 16:34	15° ¥ 35'13	
asc. node	10462 Mar 06 22:22	0° Y ′35′24		asc. node	10463 Feb 21 19:35	11°) 16'42	
	10462 Mar 07 12:01	30° ₹		min. Earth dist.	10463 Feb 21 21:01	11° 米 12′23	0.66832 AU
min. Earth dist.	10462 Mar 10 06:35	26° ∺ 39'24	0.67839 AU	inferior conj	10463 Feb 23 13:00	9° ∺ 09'27	0°33'34
inferior conj	10462 Mar 11 10:49	25° 米 06′59	1°24'42	minimum elong	10463 Feb 23 12:08	9° ∺ 12'06	0°33'28
minimum elong	10462 Mar 11 09:01	25° 升 12′56	1°24'08	morning rise	10463 Mar 01 08:28	3° ¥ 23'31	
morning rise	10462 Mar 16 22:30	19° ∺ 11′26		direct	10463 Mar 04 11:33	2° ∺ 28′00	
direct	10462 Mar 20 12:38	17° ¥ 57′25		morning max el	10463 Mar 11 02:17	6° ₩ 01'51	18°37'17
morning max el	10462 Mar 27 16:20	21° ¥ 54'37	19°27'00	desc. node	10463 Mar 27 15:13	29° ₩ 13'42	
	10462 Apr 03 09:42	$0^{\circ}\mathbf{Y}$			10463 Mar 28 03:03	0 ° Υ	
greatest brilliancy	10462 Apr 09 09:34	8° Y 33'39	-0.7m	morning set	10463 Apr 01 05:20	6° Ƴ 25'45	
desc. node	10462 Apr 09 18:28	9° Y ′06'36		. 8	10463 Apr 16 06:25	0°8	
morning set	10462 Apr 21 14:00	27° Υ '03'10			10.05.1pr 10 00.20	° O	
morning set	10462 Apr 23 11:50	0°8		superior conj	10463 Apr 17 09:34	1° 8 46'14	10501/13
max. Earth dist.	10462 May 04 01:21	16° 8 28'50	1.44905 AU	minimum elong	10463 Apr 17 01:38	1° 8 15'13	
max. Earm dist.	10402 May 04 01.21	10 028 30	1.44903 AU	C	-	_	
	1046234 00 00 45	222	2012151	max. Earth dist.	10463 Apr 16 19:21	_	1.45593 AU
superior conj	10462 May 08 00:45	22° 8 47'23		evening rise	10463 May 02 22:39	26° 8 18'08	
minimum elong	10462 May 07 23:44	22° 8 43'18	2°13'13		10463 May 05 06:16	0°II	
	10462 May 12 12:20	0°П		greatest brilliancy	10463 May 10 22:31	9° Ⅱ 01'55	-0.9m
evening rise	10462 May 22 03:04	15° Ⅱ 50′08		asc. node	10463 May 20 17:40	23° Ⅱ 32'55	
	10462 May 30 16:08	0		evening max el	10463 May 24 08:28		18°44'30
asc. node	10462 Jun 02 20:34	5° © 00'57			10463 May 27 00:22	0 \circ \odot	
evening max el	10462 Jun 09 20:47	14° © 09'03	18°15'30	retrograde	10463 May 30 23:15	1° © 22'56	
retrograde	10462 Jun 16 05:43	17° © 32'01		evening set	10463 Jun 03 06:14	0° ട്ട 20'56	
evening set	10462 Jun 19 04:38	16° 5 44'59			10463 Jun 03 18:45	30° Ŗ Ⅱ	
inferior conj	10462 Jun 25 03:38	11° 5 22'06	2°50'46	inferior conj	10463 Jun 08 20:45	24° Ⅱ 41'52	3°12'10
minimum elong	10462 Jun 25 05:52	11°915'46	2°49'51	minimum elong	10463 Jun 08 21:53	24° Ⅱ 38′23	3°11'34
min. Earth dist.	10462 Jun 27 15:39	8° © 32'53	0.63837 AU	min. Earth dist.	10463 Jun 10 17:47	22° II 22'49	0.65667 AU
morning rise	10462 Jul 01 05:41	5° © 06'36		morning rise	10463 Jun 14 12:47	18° Ⅱ 21'43	
desc. node	10462 Jul 06 18:23	2° © 33'29		direct	10463 Jun 20 23:45	15° Ⅱ 37'26	
direct	10462 Jul 07 22:13	2°528'58		desc. node	10463 Jun 23 15:27	16° Ⅱ 01'32	
morning max el	10462 Jul 21 18:16		27°39'29	morning max el	10463 Jul 04 04:51	23° II 27'13	26°50'05
morning max er			21 39 29	morning max er	10463 Jul 10 00:30	23 H 2/13	20 30 03
	10462 Aug 06 01:43	0° Ω				0° U	
	10462 Aug 23 14:55	0° m)		. ,	10463 Jul 30 09:58		
morning set	10462 Aug 25 16:04	4° Mp 00'54		morning set	10463 Aug 08 23:37	17° Ω 12'45	
asc. node	10462 Aug 29 20:25	12° m 32'30		max. Earth dist.	10463 Aug 13 04:34		1.34067 AU
max. Earth dist.	10462 Aug 30 13:34	14° My 02'22	1.32697 AU		10463 Aug 15 10:30	0° m)	
				asc. node	10463 Aug 16 17:15	2° My 38'36	
superior conj	10462 Sep 02 14:42	20° Mp 31'49	0°36'36				
minimum elong	10462 Sep 02 13:03	20° My 22° 57	0°36'08	superior conj	10463 Aug 17 15:22	4° m 33'35	0°09'05
	10462 Sep 06 23:31	0∘ ত		minimum elong	10463 Aug 17 14:53	4° m ∤31'07	0°08'43
evening rise	10462 Sep 09 14:01	5° ≙ 36'41		behind sun begin	10463 Aug 17 10:02	4° m 05'49	
_	10462 Sep 22 11:11	0° M .		behind sun end	10463 Aug 17 19:44	4° Mp 56′27	
evening max el	10462 Oct 02 04:22	12°M25'08	23°01'11	evening rise	10463 Aug 25 00:10	20° m) 07'07	
desc. node	10462 Oct 02 16:15	12°M53'31		<i>5</i>	10463 Aug 29 20:30	0° ರ	
retrograde	10462 Oct 15 11:13	19°ML02'11		evening max el	10463 Sep 13 20:32	22° £ 42'00	21°24'48
evening set	10462 Oct 19 09:50	18°M28'19		desc. node	10463 Sep 19 13:31	27° ⊆ 02'18	21 2770
min. Earth dist.	10462 Oct 19 09:30	15°M11'57	0.55189 AU	retrograde	10463 Sep 25 23:53	27 ⊆ 02 18 28° ⊆ 43'37	
				-			
inferior conj	10462 Oct 27 23:52	14°M22'16		evening set	10463 Sep 28 14:36	28° £ 27'56	4955150
minimum elong	10462 Oct 27 21:12	14°M26'07	5-42-21	inferior conj	10463 Oct 07 16:58	24° £ 32'00	
morning rise							
	10462 Nov 05 10:20	10°M32'32		minimum elong	10463 Oct 07 07:45	24° Ω 44'53	4°53'46
direct morning max el	10462 Nov 05 10:20 10462 Nov 08 11:20 10462 Nov 19 14:52	10°M32'32 10°M10'46 15°M26'36	20°46'00	minimum elong min. Earth dist. morning rise	10463 Oct 07 07:45 10463 Oct 07 20:51 10463 Oct 16 01:43	24° £ 44'53 24° £ 26'32 20° £ 41'57	4°53'46 0.54620 AU

direct	10463 Oct 19 20:21	20° ≏ 11'07		minimum elong	10464 Sep 16 03:23	4° ≏ 51'32	3°17'13
morning max el	10463 Nov 01 10:25	26° ♀ 10'51	22°23'18	min. Earth dist.	10464 Sep 18 06:01	3° ₾ 35'43	0.54990 AU
	10463 Nov 05 00:57	0° M.		morning rise	10464 Sep 24 17:49	0° ჲ 27'18	
asc. node	10463 Nov 12 17:44	10° ™ 58'10			10464 Sep 26 11:05	30°₽,₩	
	10463 Nov 22 16:59	0° ∡ 7		direct	10464 Sep 29 07:17	29° mp 42'13	
morning set	10463 Nov 23 06:03	1° ∡ 08'46			10464 Oct 02 02:48	0∘ ⊽	
C				morning max el	10464 Oct 12 22:29	6° £ 23'15	24°10'34
superior conj	10463 Nov 30 07:17	16° ∡ 12'04	1°37'51	asc. node	10464 Oct 29 14:36	29° ≙ 42'16	
minimum elong	10463 Nov 30 08:15	16° √ 17'08	1°38'18		10464 Oct 29 18:29	0°M	
max. Earth dist.	10463 Dec 03 21:39	23° х 43′36	1.34121 AU	morning set	10464 Nov 06 17:51	15°M56'33	
max. Earth dist.	10463 Dec 07 00:14	0°る	1.5 1121 110	morning sec	10464 Nov 13 04:59	0° ⊼	
evening rise	10463 Dec 08 09:33	2° る 43'23			101011107 15 01.57	· /	
desc. node	10463 Dec 16 11:41	17°る34'22		superior conj	10464 Nov 13 14:32	0° ∡ ′52'05	1°39'48
desc. flode	10463 Dec 24 02:23	0°≈		minimum elong	10464 Nov 13 14:18	0° ₹ 50'49	
evening max el	10464 Jan 12 06:15	0 ∞ 24°≈29'52	27°03'31	max. Earth dist.	10464 Nov 15 20:55	5° √ 46'15	1.32771 AU
evening max er	10464 Jan 19 08:27	24 ≈ 29 32	27 03 31			16° ₹ 36'25	1.32//1 AU
		0 X 1° ¥ 51'50		evening rise	10464 Nov 21 01:23	10 x・3023	
retrograde	10464 Jan 25 14:22			, ,	10464 Nov 28 00:42		
	10464 Jan 31 06:41	30°R≈		desc. node	10464 Dec 02 08:45	7° る 35'41	
evening set	10464 Feb 01 05:57	29°≈17'57			10464 Dec 17 16:10	0° ≈	
min. Earth dist.	10464 Feb 05 04:57	25°≈28'54		evening max el	10464 Dec 24 18:29	7° ≈ 47'14	27°28'56
inferior conj	10464 Feb 07 08:42	23° ≈ 02′23		retrograde	10465 Jan 07 10:48	15° ≈ 08′29	
minimum elong	10464 Feb 07 09:28	23° ≈ 00'14	0°25'52	evening set	10465 Jan 14 09:36	12° ≈ 38'17	
asc. node	10464 Feb 08 16:47	21° ≈ 32'57		min. Earth dist.	10465 Jan 18 04:17	9° ≈ 20'41	0.63745 AU
morning rise	10464 Feb 13 14:19	17° ≈ 28'36		inferior conj	10465 Jan 20 19:20	6° ≈ 39'31	-1°34'48
direct	10464 Feb 16 07:59	16° ≈ 48′15		minimum elong	10465 Jan 20 22:22	6° ≈ 31'45	1°33'07
morning max el	10464 Feb 22 17:24	20° ≈ 10′25	18°04'14	asc. node	10465 Jan 25 13:57	2° ≈ 23'52	
	10464 Mar 01 07:05	0° ∀		morning rise	10465 Jan 27 13:07	1° ≈ 20'47	
morning set	10464 Mar 12 01:10	17° ∺ 14'06		direct	10465 Jan 29 23:10	0° ≈ 51'58	
desc. node	10464 Mar 13 11:57	19°) 35′58		morning max el	10465 Feb 05 10:56	4° ≈ 13′09	17°48'26
	10464 Mar 19 22:13	0° Y		morning set	10465 Feb 22 00:26	29° ≈ 22'14	
					10465 Feb 22 09:16	0° ∀	
superior conj	10464 Mar 26 17:44	10° Y 50'04	-1°28'10	desc. node	10465 Feb 28 08:43	10° ¥ 08'51	
minimum elong	10464 Mar 26 08:35	10° Ƴ 14'02	1°27'13				
max. Earth dist.	10464 Mar 29 15:26	15° Y 24'01	1.45534 AU	superior conj	10465 Mar 06 18:41	20°) 45′26	-0°46'40
	10464 Apr 08 00:25	0°8		minimum elong	10465 Mar 06 13:40	20° ¥ 25′00	0°45'49
evening rise	10464 Apr 11 20:52	5° 8 57'40		max. Earth dist.	10465 Mar 12 10:32	29° ¥ 51'24	1.44740 AU
greatest brilliancy	10464 Apr 24 21:12	25° 8 51'29	-0.7m		10465 Mar 12 12:42	0°Υ	
8	10464 Apr 27 16:54	0°II	VV,	evening rise	10465 Mar 22 08:31	15° Υ 19'08	
evening max el	10464 May 06 15:54	11° Ⅲ 26'05	19°30'16	evening rise	10465 Apr 01 01:27	0°8	
asc. node	10464 May 06 14:48	11° Д 23'19	1, 30 10	evening max el	10465 Apr 19 17:50	25° 8 08'39	20°30'53
retrograde	10464 May 13 20:37	15° Д 30'40		asc. node	10465 Apr 23 11:59	28° 8 19'45	20 30 33
evening set	10464 May 17 12:10	14° Ⅱ 13'01		retrograde	10465 Apr 27 19:25	29° 8 50'03	
inferior conj	10464 May 22 21:30	8° П 19'09	3°18'09	evening set	10465 May 01 20:16	28° 8 16'41	
minimum elong	10464 May 22 21:27	8° П 19'21	3°17'41	inferior conj	10465 May 07 03:14	22° 8 09'46	2011120
min. Earth dist.	-	6° П 40'08				22° 8 13'27	
	10464 May 24 03:32		0.07084 AU	minimum elong	10465 May 07 02:10		
morning rise	10464 May 28 06:22	1° ∏ 58'53		min. Earth dist.	10465 May 07 19:10		0.68044 AU
11	10464 May 31 04:40	30°₹ ႘		morning rise	10465 May 12 07:50	15° 8 52'05	
direct	10464 Jun 03 07:31	29° ႘ 18'49		direct	10465 May 17 20:42	13° 8 24'40	
	10464 Jun 06 15:53	0°П		desc. node	10465 May 27 09:22	18° 8 30'18	24011100
desc. node	10464 Jun 09 12:26	1° Ⅱ 30′10	0.500.510.1	morning max el	10465 May 29 00:46	20° 8 05'52	24°11'08
morning max el	10464 Jun 15 15:06	6° Ⅱ 41'14	25°37'21		10465 Jun 06 11:42	0°Щ	
_	10464 Jul 03 16:52	0° ©			10465 Jun 26 21:02	0°50	
morning set	10464 Jul 21 16:41	29° 5 341'40		morning set	10465 Jul 03 14:38	11° © 16'29	
	10464 Jul 21 20:43	0 \circ Ω		max. Earth dist.	10465 Jul 07 07:22		1.38080 AU
max. Earth dist.	10464 Jul 25 09:24	6° £ 33'36	1.35906 AU		10465 Jul 13 22:12	0 $^{\circ}$ Ω	
superior conj	10464 Jul 31 07:27	18° Ω 06'52	-0°22'05	superior conj	10465 Jul 14 11:40	1° Ω 04'11	
minimum elong	10464 Jul 31 08:48	18° Ω 13'41	0°22'11	minimum elong	10465 Jul 14 15:19	1° Ω 21'40	0°55'02
asc. node	10464 Aug 02 14:06	22° Ω 43′08		asc. node	10465 Jul 20 11:00	12° Ω 42′52	
	10464 Aug 06 03:19	O°Mp		evening rise	10465 Jul 23 07:32	18° Ω 21'56	
evening rise	10464 Aug 08 06:50	4° Mp 24′18			10465 Jul 29 09:03	0° ™	
	10464 Aug 22 21:28	0∘ ⊽		evening max el	10465 Aug 08 18:53	15° m) 13'18	19°04'00
evening max el	10464 Aug 26 00:57	3° ≏ 34'12	20°04'02	retrograde	10465 Aug 17 16:07	19° m 38'41	
desc. node	10464 Sep 05 10:48	8° ≏ 47'37		evening set	10465 Aug 19 12:59	19° m 27'44	
retrograde	10464 Sep 05 13:27	8° ≏ 47'39		desc. node	10465 Aug 23 08:02	18° Mp 05'29	
evening set	10464 Sep 07 11:47	8° Ω 37'52		inferior conj	10465 Aug 27 22:36	15° m 13'49	-1°26'01
inferior conj	10464 Sep 16 12:05	4° ≏ 38'30	-3°20'12	minimum elong	10465 Aug 27 18:52	15° m 20'14	
,	1	*		3	<i>5</i> · · · · · · ·	•	

min. Earth dist.	10465 Aug 30 19:26	13° Mp 16'03	0.56248 AU	inferior conj	10466 Aug 09 06:33	26° Ω 32'28	0°17'14
morning rise	10465 Sep 04 21:40	10° m) 26'42		minimum elong	10466 Aug 09 07:09	26° Ω 31'14	0°16'41
direct	10465 Sep 10 06:27	9° mp 19'21		desc. node	10466 Aug 10 05:16	25° Ω 46'30	
morning max el	10465 Sep 24 11:02	16° Mp 34'54	25°51'13	min. Earth dist.	10466 Aug 12 14:45	23° Q 52'18	0.58156 AU
	10465 Oct 05 10:03	0∘ ⊽		morning rise	10466 Aug 16 18:32	21° Ω 08′57	
asc. node	10465 Oct 16 11:28	18° ≏ 55'48		direct	10466 Aug 22 20:27	19° Ω 32'43	
_	10465 Oct 21 21:37	0° ™		morning max el	10466 Sep 06 05:11	27° Ω 13'07	27°08'17
morning set	10465 Oct 22 05:05	0° ™ 39'46			10466 Sep 08 21:29	0° my	
	10465 0-+ 20 01-02	15°M38'56	1025141	asc. node	10466 Sep 28 23:12 10466 Oct 03 08:20	0° 亞 8° 亞 30'55	
superior conj minimum elong	10465 Oct 29 01:03 10465 Oct 28 23:48	15°M32'03	1°35'41 1°35'57	morning set	10466 Oct 05 08.20	8 ≥ 30 33	
max. Earth dist.	10465 Oct 30 02:32	17°M59'50	1.31883 AU	morning sec	10466 Oct 13 08:04	0°M	
man. Barun dipe.	10465 Nov 04 15:54	0° ∡ 7	1.51005110		10.00 000 15 00.0.	0 110	
evening rise	10465 Nov 05 01:36	0° ∡ ′50'41		superior conj	10466 Oct 13 12:50	0°M26'32	1°25'54
desc. node	10465 Nov 19 05:52	27° ∡ 10'51		minimum elong	10466 Oct 13 10:53	0° M 15'42	1°25'55
	10465 Nov 21 00:24	0°ප		max. Earth dist.	10466 Oct 13 11:34	0° ™ 19'30	1.31477 AU
evening max el	10465 Dec 07 03:14	20° る 30'22	27°23'50	evening rise	10466 Oct 20 07:40	15° M 19′24	
retrograde	10465 Dec 20 23:58	27° る 46'23			10466 Oct 27 14:49	0° ∡ 7	
evening set	10465 Dec 28 00:30	25°る28'50		desc. node	10466 Nov 06 03:02	16° ₹ 09'26	
min. Earth dist.	10465 Dec 31 17:33	22° る 36'46	0.61767 AU		10466 Nov 16 19:00	0°る	26044140
inferior conj minimum elong	10466 Jan 03 17:47 10466 Jan 03 23:26	19°る52'50 19°る39'58	-2°48'5 / 2°46'20	evening max el	10466 Nov 19 06:08 10466 Dec 03 04:37	2°る28'40 9°る37'02	26°44'48
morning rise	10466 Jan 03 23:26 10466 Jan 11 00:56	19° ろ 39'38 14° ろ 52'17	2*46*20	retrograde evening set	10466 Dec 09 22:42	9° 3 702 7° 3 42'10	
asc. node	10466 Jan 12 11:06	14 3 3217 14° る 33'59		min. Earth dist.	10466 Dec 13 20:20	5°る05'03	0.59654 AU
direct	10466 Jan 13 05:46	14° る 33'39		inferior conj	10466 Dec 17 00:38	2° そ 33'38	
morning max el	10466 Jan 20 03:39	18° る 01'14	17°50'28	minimum elong	10466 Dec 17 08:20	2° る 18'17	
Ü	10466 Jan 28 18:24	0° ≈		Č	10466 Dec 20 11:02	30°R. ✓	
morning set	10466 Feb 04 20:57	12° ≈ 30′23		morning rise	10466 Dec 24 20:40	27° ∡ °53'51	
	10466 Feb 14 18:19	0° ∀		direct	10466 Dec 26 23:47	27° х ³37′10	
desc. node	10466 Feb 15 05:30	0°) 48′01		asc. node	10466 Dec 30 08:12	28° ∡ ¹20'35	
					10467 Jan 02 01:23	0°ಕ	
superior conj	10466 Feb 15 20:18	1° ¥ 51′25		morning max el	10467 Jan 03 16:03	1°る25'09	18°11'37
minimum elong	10466 Feb 15 19:54	1°) 49'41	0°04'20	morning set	10467 Jan 19 08:40	26° る 20'55	
behind sun begin behind sun end	10466 Feb 15 11:36 10466 Feb 16 04:13	1° 			10467 Jan 21 07:11	0° ≈	
max. Earth dist.	10466 Feb 23 01:48	13° H 54'33	1.43311 AU	superior conj	10467 Jan 28 21:44	14°≈04'30	0°31'51
evening rise	10466 Mar 02 00:54	25°\(\frac{15}{100}\)(09	1. 4 3311 AO	minimum elong	10467 Jan 29 00:02	14°≈14'54	0°31'53
evening rise	10466 Mar 05 06:22	0°Υ		desc. node	10467 Feb 02 02:20	21° ≈ 30'15	0 31 33
	10466 Mar 26 01:51	0°8		max. Earth dist.	10467 Feb 05 12:28	27° ≈ 22'21	1.41409 AU
evening max el	10466 Apr 02 14:13	8° 8 51'45	21°43'11		10467 Feb 07 02:02	0°)	
asc. node	10466 Apr 10 09:12	14° 8 06'27		evening rise	10467 Feb 10 10:16	5° ¥ 29'49	
retrograde	10466 Apr 11 17:34	14° 8 15'23			10467 Feb 26 11:35	0° Y	
evening set	10466 Apr 16 04:42	12° 8 26'40		evening max el	10467 Mar 16 06:30	22° Y 37'31	23°02'19
inferior conj	10466 Apr 21 11:39	6° 8 09'01	2°53'58	retrograde	10467 Mar 26 13:27	28° Y '42'26	
minimum elong	10466 Apr 21 09:51	6° 8 15'18	2°53'23	asc. node	10467 Mar 28 06:25	28° Υ 28'21	
min. Earth dist.	10466 Apr 21 14:31	5° 8 59'01 29° Y 55'42	0.68549 AU	evening set	10467 Mar 31 11:54	26° Y 39'10 20° Y 13'48	2027/20
morning rise	10466 Apr 26 14:49 10466 Apr 26 12:52	29° ₹ 35 42 30°Ŗ Υ		inferior conj minimum elong	10467 Apr 05 20:47 10467 Apr 05 18:37	20° \begin{picture}(13.48) \\ 20^{\circ}\begin{picture}\gamma^{21} 18\end{picture}	2°26'38 2°25'57
direct	10466 May 01 14:19	27° Υ '46'36		min. Earth dist.	10467 Apr 05 11:20	20° γ '46'32	0.68614 AU
uniou	10466 May 07 07:38	0°8		morning rise	10467 Apr 11 01:13	14° Υ ′06'17	0.00011110
morning max el	10466 May 11 11:26		22°41'15	direct	10467 Apr 15 11:18	12° Y ′18'26	
desc. node	10466 May 14 06:16	6° 8 36'43		morning max el	10467 Apr 24 02:24	17° Y °17′26	21°16'21
	10466 May 31 14:28	Π $^{\circ}0$		desc. node	10467 May 01 03:08	25° Y ′31'27	
morning set	10466 Jun 14 12:15	21° Ⅱ 43'25			10467 May 04 11:25	0°8	
max. Earth dist.	10466 Jun 19 04:36	29° Ⅲ 33′01	1.40367 AU		10467 May 24 16:29	Π °0	
	10466 Jun 19 10:56	0 \circ ∞		morning set	10467 May 25 07:16	0°Щ58′06	
	10466 1 26 22 62	1200150	102727	max. Earth dist.	10467 Jun 01 07:17	12° Ⅱ 12'30	1.42494 AU
superior conj	10466 Jun 26 23:48	13°515'07		aumani '	10467 1 00 15 10	2401120144	105/157
minimum elong	10466 Jun 27 05:35 10466 Jul 05 23:35	13° © 41′20 0° Ω	1-2/21	superior conj minimum elong	10467 Jun 08 15:18 10467 Jun 08 21:33	24° Ⅱ 29'44 24° Ⅱ 56'34	
evening rise	10466 Jul 05 23:35 10466 Jul 06 22:59	1° Ω 50'51		mmmum eiong	10467 Jun 08 21:33 10467 Jun 11 19:35	24°Щ36'34 0°©	1 5+3/
asc. node	10466 Jul 07 07:57	2° Ω 33'16		evening rise	10467 Jun 20 01:06	14°9540'55	
evening max el	10466 Jul 22 23:22	27° Ω 34'40	18°25'12	asc. node	10467 Jun 24 04:56	22°509'40	
5	10466 Jul 25 23:54	0° m)			10467 Jun 28 18:09	0°N	
retrograde	10466 Jul 30 13:27	1° m 23'05		evening max el	10467 Jul 06 10:21	10° Ω 28'27	18°06'32
evening set	10466 Aug 01 16:14	1°M/06'08		retrograde	10467 Jul 13 04:33	13° Ω 55′09	
	10466 Aug 04 08:51	30° R Ω		evening set	10467 Jul 15 15:13	13° Ω 28′23	

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10469 Jun 12 01:47

9°549'29

evening set

10468 Jul 04 09:27

21°9512'42 2°30'00

inferior conj

inferior conj	10469 Jun 17 20:42	4°919'15	3°01'59	greatest brilliancy	10470 May 04 12:12	3° Ⅱ 57'13	-0.8m
minimum elong	10469 Jun 17 22:30	4°913'56	3°01'12	asc. node	10470 May 14 20:07	18° Ⅲ 33'12	0.0111
min. Earth dist.	10469 Jun 20 02:20	1°9641'27	0.64657 AU	evening max el	10470 May 16 23:07	20° I 53'24	19°01'56
	10469 Jun 21 15:16	30°RⅡ		retrograde	10470 May 23 19:05	24° ∏ 41'32	
morning rise	10469 Jun 23 18:08	28° I I00'53		evening set	10470 May 27 05:31	23° I I33'05	
direct	10469 Jun 30 08:43	25° Ⅱ 19'21		inferior conj	10470 Jun 01 17:28	17° Ⅱ 47'28	3°16'25
desc. node	10469 Jun 30 20:45	25° Ⅱ 20'12		minimum elong	10470 Jun 01 18:05	17° Ⅱ 45'30	3°15'52
	10469 Jul 10 09:45	0°©		min. Earth dist.	10470 Jun 03 08:04	15° Ⅱ 44'23	0.66324 AU
morning max el	10469 Jul 13 23:27	3°518'04	27°22'02	morning rise	10470 Jun 07 06:04	11° Ⅱ 26'30	
	10469 Aug 03 00:45	$0^{\circ}\Omega$		direct	10470 Jun 13 13:11	8° Ⅱ 42'43	
morning set	10469 Aug 18 07:42	27° Ω 01'48		desc. node	10470 Jun 17 17:48	9° Ⅱ 42'58	
	10469 Aug 19 19:49	0° m)		morning max el	10470 Jun 26 10:14	16° Ⅲ 23'36	26°21'21
max. Earth dist.	10469 Aug 22 22:12	6° M)17′17	1.33219 AU		10470 Jul 07 16:33	0 \circ	
asc. node	10469 Aug 23 22:47	8° m 24'43			10470 Jul 26 21:53	0 $^{\circ}$ Ω	
				morning set	10470 Aug 01 09:36	9° Ω 56'31	
superior conj	10469 Aug 26 12:58	13° m 52'27	0°25'25	max. Earth dist.	10470 Aug 05 08:35	17° Ω 31′07	1.34795 AU
minimum elong	10469 Aug 26 11:44	13° m 45'54	0°24'59				
evening rise	10469 Sep 02 15:46	29° Mp 08'06		superior conj	10470 Aug 10 10:19	27° Ω 42'22	-0°03'50
	10469 Sep 03 01:35	0∘ ⊽		minimum elong	10470 Aug 10 10:33	27° Ω 43'35	0°04'05
	10469 Sep 20 08:14	0° M		behind sun begin	10470 Aug 10 04:47	27° Ω 14'01	
evening max el	10469 Sep 24 00:30	4°ML04'04	22°18'49	behind sun end	10470 Aug 10 16:18	28° Ω 13'12	
desc. node	10469 Sep 26 18:42	6°M29'49		asc. node	10470 Aug 10 19:38	28° Ω 30′19	
retrograde	10469 Oct 06 21:37	10°M28'59			10470 Aug 11 13:00	0° m	
evening set	10469 Oct 10 05:27	10°M.04'30		evening rise	10470 Aug 18 00:42	13° Tp 32'57	
min. Earth dist.	10469 Oct 18 06:45	6°M30'45	0.54834 AU		10470 Aug 26 11:01	0∘ ত	
inferior conj	10469 Oct 19 01:55	6°M03'44		evening max el	10470 Sep 05 21:17	14° £ 32'45	20°48'04
minimum elong	10469 Oct 18 19:52	6°M12'17	5°29'04	desc. node	10470 Sep 13 15:58	19° Ω 39'45	
morning rise	10469 Oct 27 11:53	2°M16'38		retrograde	10470 Sep 17 09:20	20° ♀ 15'02	
direct	10469 Oct 30 19:56	1°M51'43	21925129	evening set	10470 Sep 19 14:32	20° Ω 03'13	4910150
morning max el asc. node	10469 Nov 11 15:05 10469 Nov 19 23:12	7°M25'49 17°M48'38	21°25'28	inferior conj	10470 Sep 28 17:59 10470 Sep 28 08:05	16° £ 07'34 16° £ 21'41	4°16'58
asc. node	10469 Nov 26 22:26	17 1164636 0° √		minimum elong min. Earth dist.	10470 Sep 28 08:03 10470 Sep 29 14:56	16 ≥ 21 41 15° ♀ 37'37	0.54652 AU
morning set	10469 Dec 01 20:51	9° ∡ ¹58'29		morning rise	10470 Sep 29 14:30 10470 Oct 07 01:37	13 ⊆ 3/3/ 12° ⊆ 10'35	0.34032 AU
morning set	10409 DCC 01 20.51	9 🗡 30 29		direct	10470 Oct 07 01:37 10470 Oct 11 03:55	12 ⊆ 10 33	
aumorior coni	10460 D 00 02 20	250 71001					
		750 211711	10331/1/1	morning may al	10470 Oct 24 06:37	1.703253775	23°08'42
superior conj	10469 Dec 09 02:38	25° ₹ 12'01 25° ₹ 20'36	1°33'44 1°34'09	morning max el	10470 Oct 24 06:37	17° Ω 53'25	23°08'42
minimum elong	10469 Dec 09 04:17	25° ∡ ¹20'36	1°33'44 1°34'09		10470 Nov 03 01:15	0°M	23°08'42
minimum elong	10469 Dec 09 04:17 10469 Dec 11 10:33	25° メ 20'36 0° る	1°34'09	asc. node	10470 Nov 03 01:15 10470 Nov 06 20:07	0°ጤ 6°ጤ11'16	23°08'42
minimum elong max. Earth dist.	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52	25°⊀20'36 0°ප 4°ප13'39			10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12	0°ጤ 6°ጤ11'16 24°ጤ46'29	23°08'42
minimum elong max. Earth dist. evening rise	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20	25° メ 20'36 0°る 4°る13'39 12°る16'53	1°34'09	asc. node	10470 Nov 03 01:15 10470 Nov 06 20:07	0°ጤ 6°ጤ11'16	23°08'42
minimum elong max. Earth dist.	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04	25° \$720'36 0° で 4° でる13'39 12° でる16'53 23° でる14'36	1°34'09	asc. node morning set	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42	0°M 6°M11'16 24°M46'29 0°⊀	
minimum elong max. Earth dist. evening rise	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈	1°34'09	asc. node	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01	0°ጤ 6°ጤ11'16 24°ጤ46'29	23°08'42 1°39'27 1°39'55
minimum elong max. Earth dist. evening rise	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04	25° \$720'36 0° で 4° でる13'39 12° でる16'53 23° でる14'36	1°34'09 1.35084 AU	asc. node morning set	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42	0° M 6° M 11'16 24° M 46'29 0°	1°39'27
minimum elong max. Earth dist. evening rise desc. node	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ¥	1°34'09 1.35084 AU	asc. node morning set superior conj minimum elong	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27	0°M 6°M11'16 24°M46'29 0° ₹ 9° ₹ 45'11 9° ₹ 47'32	1°39'27 1°39'55
minimum elong max. Earth dist. evening rise desc. node evening max el	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ¥ 4° ¥00'47	1°34'09 1.35084 AU	asc. node morning set superior conj minimum elong max. Earth dist.	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13	0°M. 6°M.11'16 24°M.46'29 0° ✓ 9° ✓ 45'11 9° ✓ 47'32 16° ✓ 08'44	1°39'27 1°39'55
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18	25° \$\times 20'36 0° \times 4° \times 13'39 12° \times 16'53 23° \times 14'36 0° \times 0° \times 4° \times 00'47 11° \times 20'32	1°34'09 1.35084 AU	asc. node morning set superior conj minimum elong max. Earth dist.	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00	0°M 6°M11'16 24°M46'29 0° ₹ 9° ₹45'11 9° ₹47'32 16° ₹08'44 25° ₹54'21	1°39'27 1°39'55
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16	25° ズ20'36 0°る 4°る13'39 12°る16'53 23°る14'36 0°≈ 0°米 4°米00'47 11°米20'32 8°米47'19	1°34'09 1.35084 AU 26°37'18	asc. node morning set superior conj minimum elong max. Earth dist. evening rise	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23	0°M 6°M11'16 24°M46'29 0°\$\mathref{X}\text{45'11} 9°\$\mathref{X}\text{47'32} 16°\$\mathref{X}\text{08'44} 25°\$\mathref{X}\text{54'21} 0°\$\mathref{S}\text{15'4'21}	1°39'27 1°39'55
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ¥ 4° ¥00'47 11° ¥20'32 8° ¥47'19 4° ¥39'17	1°34'09 1.35084 AU 26°37'18	asc. node morning set superior conj minimum elong max. Earth dist. evening rise	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04	0°M 6°M11'16 24°M46'29 0°ダ 9°ダ45'11 9°ダ47'32 16°ダ08'44 25°ダ54'21 0°℧ 13°℧27'10	1°39'27 1°39'55 1.33482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29	1°34'09 1.35084 AU 26°37'18 0.66291 AU	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18	0°M. 6°M.11'16 24°M.46'29 0° 9° 45'11 9° 47'32 16° 0° 13° 327'10 0° 0°	1°39'27 1°39'55 1.33482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:16	25° \$\times 20'36 0° \$\times 4° \$\times 13'39 12° \$\times 16'53 23° \$\times 14'36 0° \$\times 0° \$\times 4° \$\times 00'47 11° \$\times 20'32 8° \$\times 47'19 4° \$\times 39'17 2° \$\times 58'29 2° \$\times 25'00 2° \$\times 25'47 2° \$\times 25'47	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16	0°M. 6°M11'16 24°M46'29 0°	1°39'27 1°39'55 1.33482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:16 10470 Feb 16 09:01	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'00 2° ₩25'47 2° ₩25'47 2° ₩32'52	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51	0°M. 6°M11'16 24°M46'29 0° √ 9°√45'11 9°√47'32 16°√8'08'44 25°√54'21 0° 313° 327'10 0° ≈ 17°≈31'47 24°≈55'08 22°≈21'51 18°≈46'30	1°39'27 1°39'55 1.33482 AU 27°17'46
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:16 10470 Feb 16 09:01 10470 Feb 16 09:01	25° \$\times 20'36 0° \$\times 4° \$\times 13'39 12° \$\times 16'53 23° \$\times 14'36 0° \$\times 0° \$\times 4° \$\times 00'47 11° \$\times 20'32 8° \$\times 47'19 4° \$\times 39'17 2° \$\times 58'29 2° \$\times 25'00 2° \$\times 25'47 2° \$\times 25'47	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51 10471 Jan 24 19:52	0°M. 6°M11'16 24°M46'29 0° √ 9°√45'11 9°√47'32 16°√8'08'44 25°√54'21 0° 3° 3°327'10 0° ≈ 17°≈31'47 24°≈55'08 22°≈21'51 18°≈46'30 16°≈12'17	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:16 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'00 2° ₩25'47 2° ₩25'47 2° ₩32'52	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46	0°M. 6°M11'16 24°M46'29 0° √ 9°√45'11 9°√47'32 16°√8'08'44 25°√54'21 0° 313° 327'10 0° ≈ 17°≈31'47 24°≈55'08 22°≈21'51 18°≈46'30	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34
minimum elong max. Earth dist. evening rise 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	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 06:38 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 18 11:43	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ₹ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹≈ 26° ≈44'13	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17	0° M. 6° M.11'16 24° M.46'29 0° 🖈 9° 🗗 45'11 9° 🗗 47'32 16° 🛣 08'44 25° 🛣 54'21 0° 🛪 13° 📆 27'10 0° ≈ 17° ≈ 31'47 24° ≈ 55'08 22° ≈ 21'51 18° ≈ 46'30 16° ≈ 12'17 16° ≈ 07'47 13° ≈ 22'32	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34
minimum elong max. Earth dist. evening rise 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	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ₹ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹≈ 26° ≈44'13 25° ≈55'44	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04	0° M. 6° M.11'16 24° M.46'29 0° 🖈 9° ₹45'11 9° ₹47'32 16° ₹08'44 25° ₹54'21 0° ₹ 13° ₹27'10 0° ≈ 17° ≈ 31'47 24° ≈ 55'08 22° ≈ 21'51 18° ≈ 46'30 16° ≈ 12'17 16° ≈ 07'47 13° ≈ 22'32 10° ≈ 44'31	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34
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minimum elong max. Earth dist. evening rise 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	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 11:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹≈ 26° ≈44'13 25° ≈55'44 29° ≈23'17 0° ₩	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 09 02:06 10471 Feb 15 11:47	0° M. 6° M.11'16 24° M.46'29 0° 9° 45'11 9° 47'32 16° 0° 13° 527'10 0° 17° 31'47 24° 24° 55'08 22° 22'151 18° 46'30 16° 16° 12'17 16° 13° 22'32 10° 44'31 10° 10° 30'33	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34
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minimum elong max. Earth dist. evening rise 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 desc. node morning set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 10:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46 10470 Mar 21 17:29 10470 Mar 23 14:27 10470 Mar 24 17:52	25° ₹20'36 0° ₹ 4° ₹313'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹≈ 26° ≈44'13 25° ≈55'44 29° ≈23'17 0° ₩ 25° ₩11'25 28° ₩10'44 0° Ψ	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 04 12:16 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 06 12:04 10471 Feb 15 11:47 10471 Feb 27 03:52 10471 Mar 04 22:34	0°M. 6°M11'16 24°M46'29 0° √ 9°√45'11 9°√47'32 16°√8'08'44 25°√54'21 0° 36 13°527'10 0° 24°≈55'08 22°≈21'51 18°≈46'30 16°≈12'17 16°≈07'47 13°≈22'32 10°≈44'31 10°≈09'41 13°≈30'33 0° € 9°√34'55	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34 0°53'29
minimum elong max. Earth dist. evening rise 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 desc. node morning set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 10:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46 10470 Mar 21 17:29 10470 Mar 23 14:27 10470 Mar 24 17:52	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹≈ 26° ≈44'13 25° ≈55'44 29° ≈23'17 0° ₩ 25° ₩11'25 28° ₩10'44 0° Ψ	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 15 11:47 10471 Feb 27 03:52 10471 Mar 04 22:34 10471 Mar 08 14:14 10471 Mar 17 09:51	0°M. 6°M11'16 24°M46'29 0° √ 9°√45'11 9°√47'32 16°√8'34'42 25°√54'21 0° 13° 527'10 0° ≈ 17°≈31'47 24°≈55'08 22°≈21'51 18°≈46'30 16°≈12'17 16°≈07'47 13°≈22'32 10°≈44'31 10°≈09'41 13°≈30'33 0° € 9°€38'37 0° €	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34 0°53'29
minimum elong max. Earth dist. evening rise 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 desc. node morning set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 10:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46 10470 Mar 21 17:29 10470 Mar 23 14:27 10470 Mar 24 17:52	25° ₹20'36 0° ₹ 4° ₹13'39 12° ₹16'53 23° ₹14'36 0° ≈ 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'40 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹≈ 26° ≈44'13 25° ≈55'44 29° ≈23'17 0° ₩ 25° ₩11'25 28° ₩10'44 0° Ψ	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20 18°21'11 -1°48'11 1°47'34	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 03 04:23 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 07 02:06 10471 Feb 15 11:47 10471 Feb 27 03:52 10471 Mar 04 22:34 10471 Mar 08 14:14 10471 Mar 17 09:51	0°M. 6°M11'16 24°M46'29 0° √ 9° √ 45'11 9° √ 47'32 16° √ 08'44 25° √ 54'21 0° © 13° √ 527'10 0° ≈ 17° ≈ 31'47 24° ≈ 55'08 22° ≈ 21'51 18° ≈ 46'30 16° ≈ 12'17 16° ≈ 07'47 13° ≈ 22'32 10° ≈ 44'31 10° ≈ 9° ★ 9° ★ 34'55 15° ★ 38'37 0° ♥ 2° ♥ 15'27	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34 0°53'29 17°55'20
minimum elong max. Earth dist. evening rise 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 desc. node morning set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 11:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46 10470 Mar 24 17:52 10470 Apr 08 06:06 10470 Apr 08 06:06 10470 Apr 09 04:49	25° ₹20'36 0° ₹ 4° ₹313'39 12° ₹16'53 23° ₹14'36 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹ 26° ≈44'13 25° ≈55'44 29° ≈23'17 0° ₩ 25° ₩11'25 28° ₩10'44 0° Υ 22° Υ53'43 22° Υ17'14 24° Υ22'36	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 24 19:52 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 07 02:06 10471 Feb 15 11:47 10471 Feb 27 03:52 10471 Mar 08 14:14 10471 Mar 18 19:45 10471 Mar 18 19:45 10471 Mar 18 19:45	0°M. 6°M11'16 24°M46'29 0° √ 9° √45'11 9° √47'32 16° √8'08'44 25° √54'21 0° © 13° √527'10 0° ≈ 17° ≈31'47 24° ≈55'08 22° ≈21'51 18° ≈46'30 16° ≈12'17 16° ≈07'47 13° ≈22'32 10° ≈44'31 10° ≈09'41 13° ≈30'33 0° € 9° € 3'Y 4'55 15° € 38'37 0° € 2° 9° 15'27 1° € 44'32	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34 0°53'29 17°55'20
minimum elong max. Earth dist. evening rise 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 desc. node morning set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 10:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46 10470 Mar 24 17:52 10470 Mar 24 17:52 10470 Apr 08 06:06 10470 Apr 09 04:49 10470 Apr 09 04:49 10470 Apr 09 04:49 10470 Apr 09 04:49	25° ₹20'36 0° ₹ 4° ₹313'39 12° ₹16'53 23° ₹14'36 0° ₹ 4° ₹00'47 11° ₹20'32 8° ₹47'19 4° ₹39'17 2° ₹25'47 2° ₹25'47 2° ₹25'47 2° ₹25'47 2° ₹25'47 2° ₹25'47 2° ₹25'47 2° ₹25'44 2° ₹25'47 2° ₹25'44 20° ₹23'17 0° ₹ 25° ₹11'25 28° ₹10'44 0° ♀ 22° ♀53'43 22° ♀17'14 24° ♀22'36 0° ₹	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20 18°21'11 -1°48'11 1°47'34	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong ax. Earth dist.	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 28 16:46 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 07 02:06 10471 Feb 15 11:47 10471 Feb 27 03:52 10471 Mar 08 14:14 10471 Mar 18 19:45	0°M. 6°M11'16 24°M46'29 0° 8 9° 845'11 9° 847'32 16° 808'44 25° 8527'10 0° 17° 831'47 24° 855'08 22° 821'51 18° 846'30 16° 812'17 16° 807'47 13° 822'32 10° 844'31 10° 809'41 13° 830'33 0° 9° 434'55 15° 438'37 0° 9° 2° 9° 15'27 1° 944'32 8° 9'53'17	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34 0°53'29 17°55'20
minimum elong max. Earth dist. evening rise 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 desc. node morning set	10469 Dec 09 04:17 10469 Dec 11 10:33 10469 Dec 13 12:52 10469 Dec 17 16:20 10469 Dec 23 17:04 10469 Dec 27 16:39 10470 Jan 18 02:56 10470 Jan 21 23:10 10470 Feb 04 00:18 10470 Feb 10 10:16 10470 Feb 14 12:08 10470 Feb 15 22:05 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 09:01 10470 Feb 16 11:23 10470 Feb 16 11:23 10470 Feb 18 11:43 10470 Feb 22 08:49 10470 Feb 25 07:37 10470 Mar 03 19:16 10470 Mar 04 09:46 10470 Mar 24 17:52 10470 Apr 08 06:06 10470 Apr 08 06:06 10470 Apr 09 04:49	25° ₹20'36 0° ₹ 4° ₹313'39 12° ₹16'53 23° ₹14'36 0° ₩ 4° ₩00'47 11° ₩20'32 8° ₩47'19 4° ₩39'17 2° ₩58'29 2° ₩25'47 2° ₩25'47 2° ₩25'47 2° ₩32'52 2° ₩18'42 30° ₹ 26° ≈44'13 25° ≈55'44 29° ≈23'17 0° ₩ 25° ₩11'25 28° ₩10'44 0° Υ 22° Υ53'43 22° Υ17'14 24° Υ22'36	1°34'09 1.35084 AU 26°37'18 0.66291 AU 0°09'10 0°09'20 0°09'20 18°21'11 -1°48'11 1°47'34	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	10470 Nov 03 01:15 10470 Nov 06 20:07 10470 Nov 16 08:12 10470 Nov 18 18:42 10470 Nov 23 07:01 10470 Nov 23 07:27 10470 Nov 26 07:13 10470 Dec 01 02:00 10470 Dec 10 14:04 10470 Dec 21 02:18 10471 Jan 18 00:51 10471 Jan 24 19:52 10471 Jan 24 19:52 10471 Jan 31 01:28 10471 Jan 31 01:28 10471 Jan 31 03:07 10471 Feb 02 19:17 10471 Feb 06 12:04 10471 Feb 07 02:06 10471 Feb 15 11:47 10471 Feb 27 03:52 10471 Mar 08 14:14 10471 Mar 18 19:45 10471 Mar 18 19:45 10471 Mar 18 19:45	0°M. 6°M11'16 24°M46'29 0° √ 9° √45'11 9° √47'32 16° √8'08'44 25° √54'21 0° © 13° √527'10 0° ≈ 17° ≈31'47 24° ≈55'08 22° ≈21'51 18° ≈46'30 16° ≈12'17 16° ≈07'47 13° ≈22'32 10° ≈44'31 10° ≈09'41 13° ≈30'33 0° € 9° € 3'Y 4'55 15° € 38'37 0° € 2° 9° 15'27 1° € 44'32	1°39'27 1°39'55 1.33482 AU 27°17'46 0.64762 AU -0°54'34 0°53'29 17°55'20

page 200

10472 Feb 27 06:48

superior conj

12°**)** 39'48 -0°28'28

desc. node

10473 Feb 09 07:51

26°≈55'47

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	10473 Feb 11 02:47	0° ∀		minimum elong	10474 Jan 21 08:00	7° ≈ 06'21	0°45'02
max. Earth dist.	10473 Feb 15 08:00	7° ₩ 04'28	1.42551 AU	desc. node	10474 Jan 27 04:40	17°≈37'55	0 10 02
evening rise	10473 Feb 21 06:46	16°) 41'34		max. Earth dist.	10474 Jan 28 16:49	20°≈14'44	1.40495 AU
	10473 Mar 01 21:58	0° Υ		evening rise	10474 Feb 02 00:56	27° ≈ 34'19	
	10473 Mar 23 23:49	0°8		8	10474 Feb 03 12:22	0°) €	
evening max el	10473 Mar 25 22:26	2° 8 03'16	22°16'18		10474 Feb 23 12:27	0° Υ	
asc. node	10473 Apr 04 11:42	7° 8 44'30		evening max el	10474 Mar 08 13:17	15° Ƴ 49'49	23°36'37
retrograde	10473 Apr 04 13:13	7° 8 44'31		retrograde	10474 Mar 19 07:51	22° Ƴ 11'17	
evening set	10473 Apr 09 05:12	5° 8 49'14		asc. node	10474 Mar 22 08:55	21° Y 27'12	
•	10473 Apr 14 03:32	30° ₹ Υ		evening set	10474 Mar 24 11:24	20° Y ′01'59	
inferior conj	10473 Apr 14 12:45	29° Ƴ 27'56	2°43'31	inferior conj	10474 Mar 29 21:34	13° Ƴ 34'12	2°12'14
minimum elong	10473 Apr 14 10:45	29° Ƴ '34'55	2°42'53	minimum elong	10474 Mar 29 19:23	13° Ƴ 41'43	2°11'31
min. Earth dist.	10473 Apr 14 10:14	29° Y 36'43	0.68634 AU	min. Earth dist.	10474 Mar 29 06:55	14° Y °24′25	0.68504 AU
morning rise	10473 Apr 19 16:10	23° Y 17'11		morning rise	10474 Apr 04 03:21	7° Y ′29'41	
direct	10473 Apr 24 09:55	21° Y 17'04		direct	10474 Apr 08 07:45	5° Y 51'24	
morning max el	10473 May 03 17:47	26° Y 44'38	22°04'09	morning max el	10474 Apr 16 11:44	10° Y 31'00	20°43'28
	10473 May 06 18:04	$_{0\circ}$ 8		desc. node	10474 Apr 25 05:26	21° Y 05'16	
desc. node	10473 May 08 08:36	1° 8 53'55			10474 May 01 13:13	9° 8	
	10473 May 28 08:36	$\Pi^{\circ}0$		morning set	10474 May 16 02:59	21° 8 58'01	
morning set	10473 Jun 05 17:33	13° Ⅲ 07'31			10474 May 21 05:34	$\Pi^{\circ}0$	
max. Earth dist.	10473 Jun 11 06:04	22° I I11'03	1.41313 AU	max. Earth dist.	10474 May 24 11:52	5° Ⅲ 13'55	1.43283 AU
	10473 Jun 15 20:21	0 \circ \odot					
				superior conj	10474 May 31 05:12	16° Ⅱ 17'55	-2°03'36
superior conj	10473 Jun 18 23:44	5° 5 29'44	-1°40'09	minimum elong	10474 May 31 10:36	16° Ⅱ 40'36	2°03'45
minimum elong	10473 Jun 19 06:03	5° 9 57'42	1°39'57		10474 Jun 08 05:00	0ං ම	
evening rise	10473 Jun 29 12:46	24°5944'00		evening rise	10474 Jun 12 07:48	7° 5 014'48	
asc. node	10473 Jul 01 10:23	28° © 15'19		asc. node	10474 Jun 18 07:21	17° 5 644'31	
	10473 Jul 02 09:06	0 $^{\circ}$ Ω			10474 Jun 26 04:00	0 $^{\circ}$ Ω	
evening max el	10473 Jul 15 14:27	20° Ω 20′21	18°14'45	evening max el	10474 Jun 29 02:55	3° £ 24'42	18°04'21
retrograde	10473 Jul 22 18:45	23° Ω 57'57		retrograde	10474 Jul 05 16:18	6° Ω 47'11	
evening set	10473 Jul 25 00:45	23° Ω 37'15		evening set	10474 Jul 08 06:10	6° £ 15′33	
inferior conj	10473 Aug 01 06:57	18° Ω 54'24	0°53'58	inferior conj	10474 Jul 14 19:39	1° Ω 13′12	2°01'59
minimum elong	10473 Aug 01 08:41	18° Ω 50'41	0°53'00	minimum elong	10474 Jul 14 22:26	1° Ω 06′16	2°00'43
desc. node	10473 Aug 04 07:43	16° Ω 18′28			10474 Jul 16 01:00	30°ષ્ટ્	
min. Earth dist.	10473 Aug 04 15:26	16° Ω 02'37	0.59088 AU	min. Earth dist.	10474 Jul 17 22:08	28° © 09'52	0.61357 AU
morning rise	10473 Aug 08 13:18	13° Ω 17'29		morning rise	10474 Jul 21 12:11	25° © 12'29	
direct	10473 Aug 14 20:38	11° Ω 28'53		desc. node	10474 Jul 22 04:54	24° © 45'29	
morning max el	10473 Aug 29 05:35	19° Ω 16'36	27°30'55	direct	10474 Jul 28 03:50	22° © 56'13	
	10473 Sep 07 08:07	0° m)			10474 Aug 10 10:17	0 ° Ω	
	10473 Sep 25 07:56	0∘ ⊽		morning max el	10474 Aug 11 09:37	0° Ω 56'45	27°56'36
asc. node	10473 Sep 27 10:42	4° ≏ 15'00			10474 Sep 01 12:49	0° m)	
morning set	10473 Sep 29 13:56	8° ≏ 40'45		morning set	10474 Sep 13 16:31	22° m 52'17	
max. Earth dist.	10473 Oct 06 02:41	22° ♀ 54'04	1.31457 AU	asc. node	10474 Sep 14 07:32	24° m 09'59	
					10474 Sep 17 01:48	0∘ ত	
superior conj	10473 Oct 06 14:54	24° ≏ 02'05	1°20'07	max. Earth dist.	10474 Sep 19 10:13	5° ≏ 05'42	1.31743 AU
minimum elong	10473 Oct 06 12:47	23° ♀ 50'16	1°20'00			_	
	10473 Oct 09 07:17	0° M ,		superior conj	10474 Sep 21 01:17	8° ≏ 40'19	
evening rise	10473 Oct 13 08:37	8° M ₅51'15		minimum elong	10474 Sep 20 23:04	8° ≏ 28'06	1°02'25
	10473 Oct 24 04:08	0° ∡ ¹		evening rise	10474 Sep 27 19:13	23° ≏ 29'12	
desc. node	10473 Oct 31 05:29	11° ⋌ 18'08			10474 Sep 30 21:23	0°M,	
evening max el	10473 Nov 11 05:42	24° ₹ 37'44	26°17'51	desc. node	10474 Oct 18 02:41	28°M58'04	
	10473 Nov 18 13:09	0°る			10474 Oct 18 22:34	0° ∡ ¹	24055112
retrograde	10473 Nov 25 03:48	1° 3 42'48		evening max el	10474 Oct 23 21:02	5°×723'19	24°55'12
evening set	10473 Dec 01 16:17	29° ₹ ¹59'56		retrograde	10474 Nov 06 17:02	12°×720'11	
	10473 Dec 01 16:14	30°₹ ⋌ 7	0.50550 444	evening set	10474 Nov 12 06:41	11° х 10'27	0.50015.433
min. Earth dist.	10473 Dec 05 18:54	27° ×7 25'03	0.58759 AU	min. Earth dist.	10474 Nov 17 08:42	8° ₹ 26'46	0.56817 AU
inferior conj	10473 Dec 08 22:34	25° 🗷 03'54		inferior conj	10474 Nov 20 01:37	6° \(7 41'11	
minimum elong	10473 Dec 09 06:32	24° × ⁷ 48'58	4°30'22	minimum elong	10474 Nov 20 07:20	6° ₹ 31'52	5~26'27
morning rise	10473 Dec 16 23:24	20° ×734'00		morning rise	10474 Nov 28 10:14	2° 🗷 33'20	
direct	10473 Dec 19 03:23	20° 🗷 18'03		direct	10474 Nov 30 20:09	2°×16'53	1001012
asc. node	10473 Dec 24 10:39	21° 🗷 59'52	10005:01	morning max el	10474 Dec 10 05:28	6° ₹ 46'27	19°18'36
morning max el	10473 Dec 27 05:54	24° ∡ 16'04	18°27'01	asc. node	10474 Dec 11 07:41	7° ∡ 52'49	
	10473 Dec 31 22:48	0°る			10474 Dec 25 02:55	0°る	
morning set	10474 Jan 12 03:58	19° る 43'03		morning set	10474 Dec 27 05:18	4° る 09'31	
	10474 Jan 17 12:51	0° ≈ ≈			10455	•••	1010:
	10151		0045105	superior conj	10475 Jan 04 08:28		1°10'12
superior conj	10474 Jan 21 05:10	6° ≈ 53'14	0°45'02	minimum elong	10475 Jan 04 11:30	20° る 33'31	1°10'18

	10475 Jan 09 11:02	0° ≈		minimum elong	10475 Dec 19 02:34	4° ට 30'03	1°27'37
max. Earth dist.	10475 Jan 10 22:41	2° ≈ 43'20	1.38292 AU	max. Earth dist.	10475 Dec 24 06:23	14° ₹ 43'57	1.36183 AU
desc. node	10475 Jan 14 01:33	8° ≈ 17'48		evening rise	10475 Dec 28 03:34	22° පි 02'51	
evening rise	10475 Jan 14 16:41	9° ≈ 24'00		desc. node	10475 Dec 31 22:28	28° る 50'50	
	10475 Jan 27 08:06	0° ∀			10476 Jan 01 14:19	0° ≈	
evening max el	10475 Feb 19 02:45	29°) ₹39′23	24°55'02		10476 Jan 21 03:57	0°) €	
	10475 Feb 19 11:11	0° Y		evening max el	10476 Feb 01 16:13	13°) €28′24	26°04'27
retrograde	10475 Mar 02 22:32	6° Ƴ 32'18		retrograde	10476 Feb 14 08:14	20°) 41′02	
evening set	10475 Mar 08 14:10	4° Υ 11'06		evening set	10476 Feb 20 11:47	18° ¥ 11′09	
asc. node	10475 Mar 09 06:08	3° Ƴ 35'14		asc. node	10476 Feb 24 03:22	14° ¥ 24'58	
	10475 Mar 12 10:04	30° ₹ ₩		min. Earth dist.	10476 Feb 24 17:09	13°) 43′13	0.67009 AU
min. Earth dist.	10475 Mar 13 01:59	29° ∺ 08′26	0.67957 AU	inferior conj	10476 Feb 26 07:21	11°) 44′31	0°41'58
inferior conj	10475 Mar 14 04:26	27°) 41′14	1°31'42	minimum elong	10476 Feb 26 06:19	11°)(47'47	0°41'44
minimum elong	10475 Mar 14 02:31	27°) 47′31	1°31'05	morning rise	10476 Mar 03 01:30	5°) 57′02	
morning rise	10475 Mar 19 15:08	21°) 4 44'17		direct	10476 Mar 06 06:12	4° ¥ 58'53	
direct	10475 Mar 23 07:03	20° ∺ 27′10		morning max el	10476 Mar 12 22:16	8° ∺ 35′12	18°43'38
morning max el	10475 Mar 30 13:18	24° ¥ 28'54	19°35'44		10476 Mar 28 09:39	0° Υ	
	10475 Apr 04 08:22	$0^{\circ}\mathbf{\Upsilon}$		desc. node	10476 Mar 28 23:01	0° Υ 51'53	
desc. node	10475 Apr 12 02:15	10° Ƴ 47'27		morning set	10476 Apr 03 13:33	9° Ƴ 36'54	
greatest brilliancy	10475 Apr 12 05:58	11° Ƴ 01'07	-0.7m		10476 Apr 16 14:30	0° 8	
	10475 Apr 24 19:13	0° 8		max. Earth dist.	10476 Apr 18 18:01	3° 8 21'31	1.45536 AU
morning set	10475 Apr 25 01:46	0° 8 25'10					
max. Earth dist.	10475 May 07 00:18	19° 8 01'53	1.44744 AU	superior conj	10476 Apr 19 20:57	5° 8 07'00	
		4.		minimum elong	10476 Apr 19 13:48	4° 8 39'02	2°02'53
superior conj	10475 May 11 10:27	26° 8 04'38		evening rise	10476 May 05 05:52	29° 8 28'24	
minimum elong	10475 May 11 10:34	26° 8 05'04	2°13'26		10476 May 05 13:44	Π $^{\circ}0$	
	10475 May 13 20:52	0°II		greatest brilliancy	10476 May 12 05:38	10° Ⅱ 40'58	-0.9m
evening rise	10475 May 25 06:40	18° ∏ 51′20		asc. node	10476 May 22 01:26	25° Ⅱ 29'05	
	10475 May 31 22:14	0ං ව			10476 May 25 19:35	0ං වෙ	
asc. node	10475 Jun 05 04:22	6°951'35		evening max el	10476 May 26 04:52	0°523'42	18°39'04
evening max el	10475 Jun 12 16:42	16°548'21	18°12'43	retrograde	10476 Jun 01 18:11	3°958'21	
retrograde	10475 Jun 19 01:26	20°510'04		evening set	10476 Jun 04 23:59	2°958'32	
evening set	10475 Jun 21 23:14	19°525'05	201515		10476 Jun 08 09:36	30°RⅡ	2000150
inferior conj	10475 Jun 27 23:49	14°904'45	2°45'56	inferior conj	10476 Jun 10 15:32	27° I I21'40	3°09'59
minimum elong	10475 Jun 28 02:11	13°958'08	2°44'57	minimum elong	10476 Jun 10 16:50	27° Ⅱ 17'40	3°09'19
min. Earth dist.	10475 Jun 30 13:56	11°9512'24	0.63535 AU	min. Earth dist.	10476 Jun 12 14:46	24° Ⅱ 57'31 21° Ⅱ 01'55	0.65419 AU
morning rise	10475 Jul 04 03:36	7°950'40		morning rise	10476 Jun 16 08:53	21° Д 01°33 18° Д 18'05	
desc. node	10475 Jul 09 02:03	5° © 25'29 5° © 15'02		direct	10476 Jun 22 20:57	18° Д 1803	
direct morning max el	10475 Jul 10 20:34 10475 Jul 24 18:08	3 \$13 02 13°\$17'39	27944!10	desc. node morning max el	10476 Jun 24 23:08 10476 Jul 06 04:39	18 ДЗЗ 01 26°Д10'18	26050!11
morning max er	10475 Aug 07 03:59	13 3 1739	27 44 19	morning max er	10476 Jul 00 04.39 10476 Jul 09 17:27	20 п 10 18	20 3911
	10475 Aug 07 03:59 10475 Aug 25 01:54	0° m)			10476 Jul 30 17:44	0° U	
morning set	10475 Aug 28 11:52	6° Mp 40'10		morning set	10476 Aug 10 21:11	0 δί 19° Ω 57'21	
asc. node	10475 Aug 28 11:32 10475 Sep 01 04:19	14° M) 12'20		max. Earth dist.	10476 Aug 10 21:11 10476 Aug 15 04:33	$28^{\circ}\Omega 26'47$	1.33837 AU
max. Earth dist.	10475 Sep 01 04:19	16° Mp 58'05	1.32535 AU	max. Earm dist.	10476 Aug 15 04:55	0° m)	1.33637 AU
max. Lartii dist.	104/3 БСР 02 11.31	10 11/2003	1.32333 AO	asc. node	10476 Aug 18 01:08	4° m)18'11	
superior conj	10475 Sep 05 08:23	23° Mp 04'56	0°40'24	asc. node	104/0 Aug 10 01.00	- III 10 11 I	
minimum elong	10475 Sep 05 06:25	22° m/ 55'23	0°39'58	superior conj	10476 Aug 19 10:03	7° m) 10'04	0°13'31
	10475 Sep 03 00:57 10475 Sep 08 12:45	0° ರ	, -, -,	minimum elong	10476 Aug 19 09:22	7° M) 06'27	0°13'08
evening rise	10475 Sep 12 06:40	8° ≏ 06'37		behind sun begin	10476 Aug 19 06:05	6° Mp 49'13	0 15 00
e vennig rise	10475 Sep 23 14:06	0° M		behind sun end	10476 Aug 19 12:39	7° m/23'42	
desc. node	10475 Oct 04 23:55	15°ML16'11		evening rise	10476 Aug 26 17:09	22° m/38'29	
evening max el	10475 Oct 05 07:50	15°M35'34	23°16'18		10476 Aug 30 06:43	0ಂ ರ	
retrograde	10475 Oct 18 17:11	22°M15'56		evening max el	10476 Sep 15 22:29	25° - 48′27	21°38'17
evening set	10475 Oct 22 21:21	21°MJ38'04		desc. node	10476 Sep 20 21:09	29° - 44′02	
min. Earth dist.	10475 Oct 29 17:27	18°ML27'19	0.55352 AU		10476 Sep 21 08:09	0° M	
inferior conj	10475 Oct 31 08:53	17°M29'53		retrograde	10476 Sep 28 06:44	1°ML56'31	
minimum elong	10475 Oct 31 07:30	17°ML31'53	5°44'27	evening set	10476 Oct 01 01:33	1°ML38'57	
morning rise	10475 Nov 08 19:27	13°ML38'37		Ç	10476 Oct 05 18:38	30° ₹ Ω	
direct	10475 Nov 11 18:11	13°ML17'45		inferior conj	10476 Oct 10 02:48	27° ≏ 42'09	-5°06'42
morning max el	10475 Nov 22 15:58	18°ML27'02	20°32'57	minimum elong	10476 Oct 09 18:11	27° ≏ 54'12	5°04'48
asc. node	10475 Nov 28 04:41	24°M55'43		min. Earth dist.	10476 Oct 10 00:36	27° ≙ 45'15	0.54650 AU
	10475 Dec 01 13:07	0° ∡ ¹		morning rise	10476 Oct 18 11:55	23° ≏ 53'41	
morning set	10475 Dec 11 12:20	18° ∡¹ 49'33		direct	10476 Oct 22 03:52	23° ≏ 24'31	
-	10475 Dec 16 21:50	ರ∘ರ		morning max el	10476 Nov 03 13:10	29° ≙ 17′26	22°07'54
					10476 Nov 04 06:51	0° M	
superior conj	10475 Dec 19 00:16	4° ප 18'25	1°27'18	asc. node	10476 Nov 14 01:38	12°M53'18	

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	10478 Oct 23 10:06	0° M		min. Earth dist.	10479 Aug 15 16:34	26°Ω54'25	0.57842 AU
morning set	10478 Oct 24 21:53	3°ML09'26		morning rise	10479 Aug 19 22:56	24°Ω11'07	0.57012710
morning sec	101,0000 21 21.00	3 110 0 20		direct	10479 Aug 25 22:44	22° Ω 39'20	
superior conj	10478 Oct 31 17:44	18°ML07'30	1°36'42		10479 Sep 09 00:16	0° m)	
minimum elong	10478 Oct 31 16:38	18°ML01'23	1°36'59	morning max el	10479 Sep 09 07:03	0° m 16'20	26°58'50
max. Earth dist.	10478 Nov 01 23:15	20°M50'17	1.31982 AU	. 8	10479 Sep 30 07:48	0∘ <u>v</u>	
	10478 Nov 06 04:49	0° ∡ ⊓		asc. node	10479 Oct 05 16:13	10° ≏ 14'39	
evening rise	10478 Nov 07 19:30	3° ∡ ¹23'07		morning set	10479 Oct 09 07:19	17° Ω 45'16	
desc. node	10478 Nov 21 13:34	28° ₹ '57'06		. 8	10479 Oct 14 21:53	0°M	
	10478 Nov 22 05:05	ರ°0					
evening max el	10478 Dec 10 03:43	23° る 20'07	27°26'46	superior conj	10479 Oct 16 05:27	2°M55'38	1°27'45
C	10478 Dec 20 05:50	0° ≈		minimum elong	10479 Oct 16 03:35	2°M45'16	1°27'48
retrograde	10478 Dec 24 00:13	0° ≈ 37'19		max. Earth dist.	10479 Oct 16 08:04	3° M ₁0′14	1.31510 AU
Ü	10478 Dec 27 15:24	30°Rる		evening rise	10479 Oct 23 00:51	17°M50'30	
evening set	10478 Dec 31 00:47	28° ප 17'24		C	10479 Oct 29 00:41	0° ∡ ¹	
min. Earth dist.	10479 Jan 03 17:49	25° る 21'58	0.62072 AU	desc. node	10479 Nov 08 10:44	18° ∡ °02'09	
inferior conj	10479 Jan 06 16:54	22° る 37'31	-2°37'32		10479 Nov 17 05:27	8°0	
minimum elong	10479 Jan 06 22:09	22° る 25'18	2°35'01	evening max el	10479 Nov 22 07:46	5° ට 26'05	26°52'47
morning rise	10479 Jan 13 22:02	17° る 34'00		retrograde	10479 Dec 06 06:04	12° る 35'10	
asc. node	10479 Jan 14 18:59	17° る 20'17		evening set	10479 Dec 13 01:41	10° る 36'29	
direct	10479 Jan 16 03:23	17° る 12'08		min. Earth dist.	10479 Dec 16 22:11	7° る 57'53	0.59973 AU
morning max el	10479 Jan 22 23:21	20° ප් 40'21	17°48'56	inferior conj	10479 Dec 20 02:15	5° る 23'46	-3°52'34
	10479 Jan 29 23:29	0° ≈		minimum elong	10479 Dec 20 09:45	5° පි 08'31	3°49'41
morning set	10479 Feb 07 18:20	15° ≈ 10'47		morning rise	10479 Dec 27 20:29	0° る 40'32	
	10479 Feb 16 04:07	0° ∀		direct	10479 Dec 29 23:35	0° る 23'24	
desc. node	10479 Feb 17 13:19	2° ∺ 22'39		asc. node	10480 Jan 01 16:03	0° る 51'56	
				morning max el	10480 Jan 06 12:32	4° る 08'09	18°07'09
superior conj	10479 Feb 18 23:36	4°) 48'37	-0°10'48	morning set	10480 Jan 22 04:06	28° る 56'00	
minimum elong	10479 Feb 18 22:35	4°){ 44'21	0°10'23		10480 Jan 22 17:47	0° ≈	
behind sun begin	10479 Feb 18 15:52	4°) 15'48					
behind sun end	10479 Feb 19 05:19	5° ¥ 12'51		superior conj	10480 Jan 31 21:41	16° ≈ 52'14	0°26'47
max. Earth dist.	10479 Feb 26 01:08	16° ¥ 31′00	1.43563 AU	minimum elong	10480 Jan 31 23:42	17° ≈ 01'19	0°26'51
evening rise	10479 Mar 05 09:50	28°) 11'45		desc. node	10480 Feb 04 10:08	23° ≈ 04'36	
	10479 Mar 06 13:46	$0^{\circ}\Upsilon$			10480 Feb 08 11:23	0°)	
	10479 Mar 27 01:45	0° 8		max. Earth dist.	10480 Feb 08 12:40	0°) €05'23	1.41719 AU
evening max el	10479 Apr 05 13:00	11° 8 29'34	21°31'52	evening rise	10480 Feb 13 16:13	8°) 33′20	
asc. node	10479 Apr 12 17:00	16° 8 30'39			10480 Feb 27 16:17	0° Y	
retrograde	10479 Apr 14 12:19	16° 8 46'37		evening max el	10480 Mar 18 05:49	25° Y 15'12	22°50'19
evening set	10479 Apr 18 21:52	15° 8 00'15			10480 Mar 24 03:48	0° 8	
inferior conj	10479 Apr 24 04:42	8° 8 44'08	2°57'15	retrograde	10480 Mar 28 08:32	1° 8 13'54	
minimum elong	10479 Apr 24 02:59	8° 8 50'06	2°56'41	asc. node	10480 Mar 29 14:14	1° 8 06'29	
min. Earth dist.	10479 Apr 24 09:30	8° 8 27'25	0.68506 AU		10480 Apr 01 04:11	30° Ŗ ♈	
morning rise	10479 Apr 29 07:54	2° 8 30'02		evening set	10480 Apr 02 05:18	29° Ƴ 12'41	
direct	10479 May 04 09:28	0° 8 17'51		inferior conj	10480 Apr 07 13:48	22° Y ′48'22	2°31'24
morning max el	10479 May 14 11:07	6° 8 16'00	22°54'24	minimum elong	10480 Apr 07 11:40	22° Y 55'46	2°30'42
desc. node	10479 May 16 14:04	8° 8 31'05		min. Earth dist.	10480 Apr 07 06:09	23° Y 14'55	0.68637 AU
	10479 Jun 01 19:28	Π $^{\circ}$ 0		morning rise	10480 Apr 12 17:53	16° Ƴ 40'00	
morning set	10479 Jun 17 19:20	24° ∏ 55′05		direct	10480 Apr 17 05:59	14° Y 48'51	
	10479 Jun 20 20:11	0 \circ		morning max el	10480 Apr 26 01:12	19° Ƴ 54'52	21°28'22
max. Earth dist.	10479 Jun 22 06:02	2° 5 24'14	1.40027 AU	desc. node	10480 May 02 10:56	27° Y 19'35	
					10480 May 04 12:07	9° 8	
superior conj	10479 Jun 30 00:41	16° © 10'09	-1°22'55		10480 May 24 23:58	Π $^{\circ}0$	
minimum elong	10479 Jun 30 06:13	16° © 35'24	1°22'39	morning set	10480 May 27 18:07	4° Ⅱ 19'50	
	10479 Jul 07 10:05	0 $^{\circ}\Omega$		max. Earth dist.	10480 Jun 03 07:56	14° Ⅱ 56'36	1.42201 AU
evening rise	10479 Jul 09 19:20	4° £ 33′03					
asc. node	10479 Jul 09 15:48	4° Ω 16′08		superior conj	10480 Jun 10 19:31	27° Ⅲ 33'48	-1°51'23
	10479 Jul 25 11:05	0° m		minimum elong	10480 Jun 11 01:54	28° Ⅲ 01′24	1°51'19
evening max el	10479 Jul 25 20:11	0° Mg 22'59	18°29'45		10480 Jun 12 05:11	0 \circ 60	
retrograde	10479 Aug 02 14:05	4° M 15'48		evening rise	10480 Jun 21 23:42	17° © 29'39	
evening set	10479 Aug 04 15:52	3° m 59'57		asc. node	10480 Jun 25 12:45	23° © 55'01	
	10479 Aug 11 17:23	30°R Ω			10480 Jun 28 23:32	0 $^{\circ}\Omega$	
inferior conj	10479 Aug 12 09:04	29° N 29'23	0°02'58	evening max el	10480 Jul 08 06:23	13° Ω 12′19	18°08'05
minimum elong	10479 Aug 12 09:10	29° Ω 29'11	0°02'38	retrograde	10480 Jul 15 02:48	16° Ω 41′20	
transit middle	10479 Aug 12 09:10	29° Ω 29'11	0°02'38	evening set	10480 Jul 17 12:17	16° Ω 16′12	
transit begin	10479 Aug 12 05:38	29° Ω 36′07		inferior conj	10480 Jul 24 10:54	11° Ω 24'51	1°26'01
transit end	10479 Aug 12 12:42	29° £ 22′15		minimum elong	10480 Jul 24 13:19	11° Q 19'18	1°24'47
desc. node	10479 Aug 12 12:57	29° Ω 21'45		min. Earth dist.	10480 Jul 27 17:55	8° Ω 25′28	0.60047 AU

	10400 7 1 20 10 11	70 0 0007			10401 7 1 16 07 01	1.00000110	
desc. node	10480 Jul 29 10:11	7° Ω 02'37		desc. node	10481 Jul 16 07:21	16°920'12	
morning rise	10480 Jul 31 11:25	5° Ω 36'52		direct	10481 Jul 20 10:30	15° © 25'30	
direct	10480 Aug 06 23:20	3° Ω 35′50		morning max el	10481 Aug 03 13:27	23° © 27'38	27°55'57
morning max el	10480 Aug 21 07:07	11° Ω 29'24	27°46'42		10481 Aug 09 09:37	0 $^{\circ}\Omega$	
	10480 Sep 04 19:22	0° m)			10481 Aug 29 02:41	0° m y	
asc. node	10480 Sep 21 13:01	0° ჲ 02'36		morning set	10481 Sep 06 12:43	16° m 08'19	
	10480 Sep 21 12:31	0∘ ऌ		asc. node	10481 Sep 08 09:50	20° m 00'49	
morning set	10480 Sep 22 12:56	2° £ 06'40		max. Earth dist.	10481 Sep 11 22:54	27° m 32'54	1.32020 AU
max. Earth dist.	10480 Sep 28 17:14	15° ≏ 28′00	1.31520 AU		10481 Sep 13 02:01	0∘ ⊽	
	•				•		
superior conj	10480 Sep 29 16:48	17° ≏ 38'34	1°13'24	superior conj	10481 Sep 14 01:59	2° £ 10'54	0°53'52
minimum elong	10480 Sep 29 14:34	17° ≏ 26'12		minimum elong	10481 Sep 13 23:53	1° £ 59'24	
mmmum viong	10480 Oct 05 07:03	0°M	1 10 11	evening rise	10481 Sep 20 21:15	17° £ 03'51	0 00 20
evening rise	10480 Oct 06 10:05	2°M25'59		evening rise	10481 Sep 27 04:39	0°M	
evening rise		2 11G23 39 0° ∡ 7		desc. node	•		
	10480 Oct 21 01:47				10481 Oct 12 05:07	23°M25'52	24014104
desc. node	10480 Oct 25 07:54	6° ₹ 18'01		evening max el	10481 Oct 15 16:22	27° M 07'05	24°14'04
evening max el	10480 Nov 03 03:53	16° ∡ 740′02	25°45'44		10481 Oct 19 01:07	0° ∡ ¹	
retrograde	10480 Nov 17 01:22	23° ҂ ′41′00		retrograde	10481 Oct 29 08:51	3° ҂ 758′23	
evening set	10480 Nov 23 05:47	22° ҂ 11'55		evening set	10481 Nov 03 09:33	3° ҂ ′02'43	
min. Earth dist.	10480 Nov 27 16:23	19° ∡ ³35'36	0.57904 AU	min. Earth dist.	10481 Nov 09 03:08	0° ∡ '09'54	0.56121 AU
inferior conj	10480 Nov 30 17:00	17° ∡ °28′03	-4°59'18		10481 Nov 09 09:40	30°RML	
minimum elong	10480 Dec 01 00:36	17° ∡ 14'40	4°57'13	inferior conj	10481 Nov 11 11:14	28°M43'29	-5°40'50
morning rise	10480 Dec 08 21:46	13° ҂ 07′23		minimum elong	10481 Nov 11 14:26	28°M38'32	5°40'11
direct	10480 Dec 11 03:38	12° ∡ 751'33		morning rise	10481 Nov 19 21:23	24°M44'10	
asc. node	10480 Dec 18 13:06	15° ∡ 756′27		direct	10481 Nov 22 12:12	24°M26'15	
morning max el	10480 Dec 19 18:04	17° ∡ '01'46	18°46'07	morning max el	10481 Dec 02 12:18	29°M11'15	19°47'30
morning man vi	10480 Dec 29 00:27	0°ਰ	10 1007		10481 Dec 03 08:00	0° × 7	19 1, 30
morning set	10481 Jan 05 00:51	13°る10'33		asc. node	10481 Dec 05 10:07	2° ×7 20'40	
morning set	10401 3411 03 00.31	13 01033		morning set	10481 Dec 20 04:55	27° х 43'37	
	10401 I 12 15.42	200751120	005(142	morning set		2/メサンシ/ 0°る	
superior conj	10481 Jan 13 15:43	29° る 51'39	0°56'42		10481 Dec 21 07:49	0-0	
minimum elong	10481 Jan 13 18:48	0°≈06'12	0°56'44		10401 5 20 00 50	120-722006	1010104
	10481 Jan 13 17:29	0° ≈		superior conj	10481 Dec 28 00:50	13°₹33'06	1°18'24
max. Earth dist.	10481 Jan 20 20:15	12° ≈ 58'59	1.39571 AU	minimum elong	10481 Dec 28 03:37	13° ප් 46'57	1°18'36
desc. node	10481 Jan 21 06:59	13° ≈ 46′06		max. Earth dist.	10482 Jan 03 02:29	25° ප 14'13	1.37370 AU
evening rise	10481 Jan 24 19:41	19° ≈ 50'48			10482 Jan 05 16:45	0° ≈	
	10481 Jan 31 00:07	0° ∀		evening rise	10482 Jan 06 19:53	2° ≈ 01'51	
	10481 Feb 20 21:14	0 ° $\mathbf{\Upsilon}$		desc. node	10482 Jan 08 03:50	4° ≈ 23'14	
evening max el	10481 Feb 28 20:00	9° Ƴ 03'51	24°10'36		10482 Jan 24 03:30	0° ∀	
retrograde	10481 Mar 12 01:28	15° Ƴ 39'12		evening max el	10482 Feb 11 09:13	22° 升 53′16	25°26'02
asc. node	10481 Mar 16 11:26	14° Ƴ 08'48		retrograde	10482 Feb 23 14:07	29° ¥ 56′02	
evening set	10481 Mar 17 10:14	13° Y 24'30		evening set	10482 Mar 01 11:02	27°) € 30′21	
min. Earth dist.	10481 Mar 22 02:20	8° Y 01'59	0.68329 AU	asc. node	10482 Mar 03 08:41	25° ¥ 39'48	
inferior conj	10481 Mar 22 22:01	6° Y 55'31	1°56'11	min. Earth dist.	10482 Mar 05 19:53	22°) 42'49	0.67605 AU
minimum elong	10481 Mar 22 19:53	7° Y ′02'45	1°55'28	inferior conj	10482 Mar 07 03:26	21° ₩ 01'13	1°11'43
morning rise	10481 Mar 28 05:35	0° Υ 54'12		minimum elong	10482 Mar 07 01:49	21° ¥ 06′26	1°11'14
morning rise	10481 Mar 29 16:49	30° R ₩		morning rise	10482 Mar 12 17:02	15° ₩ 08'21	
direct	10481 Apr 01 04:38	29° H 25'00		direct	10482 Mar 16 04:00	13° ¥ 59'45	
uncet	10481 Apr 03 19:35	0° Υ		morning max el	10482 Mar 23 03:16	17°) 48'59	19°11'38
morning max el	10481 Apr 08 22:17	3° Υ 46′28	20°12'53	morning max ci	10482 Apr 01 17:10	17 γ (40 39	19 11 36
	•		20 12 33	4 41 311			0.7
desc. node	10481 Apr 19 07:46	16° Y 45'19		greatest brilliancy	10482 Apr 05 03:41	5° ℃ 04'17	-0.7m
	10481 Apr 28 09:15	0°8		desc. node	10482 Apr 06 04:31	6° Y 37'34	
morning set	10481 May 06 20:30	12° 8 53'16		morning set	10482 Apr 15 22:06	21° Y '31'56	
max. Earth dist.	10481 May 16 17:21	28° 8 22'50	1.43983 AU		10482 Apr 21 09:16	0° 8	
	10481 May 17 17:35	Π $^{\circ}$ 0		max. Earth dist.	10482 Apr 29 08:35	12° 8 27'12	1.45169 AU
superior conj	10481 May 22 14:38	7° Ⅱ 55'27		superior conj	10482 May 02 10:34	17° 8 19'06	
minimum elong	10481 May 22 18:21	8° Ⅱ 10'42	2°10'02	minimum elong	10482 May 02 07:27	17° 8 06'43	2°11'36
evening rise	10481 Jun 04 10:46	29° Ⅱ 38'52			10482 May 10 08:39	Π °0	
	10481 Jun 04 15:39	0ංම		evening rise	10482 May 16 23:51	10° Ⅱ 50′24	
asc. node	10481 Jun 12 09:45	13° © 15'40			10482 May 28 19:47	0ංම	
evening max el	10481 Jun 21 19:48	26°525'36	18°05'36	asc. node	10482 May 30 06:49	2°511'06	
retrograde	10481 Jun 28 05:56	29°5946'06		evening max el	10482 Jun 05 09:09	9° © 54'22	18°21'41
evening set	10481 Jun 30 23:14	29° © 08'56		retrograde	10482 Jun 11 18:54	13° © 20'21	
inferior conj	10481 Jul 07 06:41	23°958'23	2°23'21	evening set	10482 Jun 14 19:59	12° © 29'18	
minimum elong	10481 Jul 07 09:25	23°951'13	2°22'10	inferior conj	10482 Jun 20 16:15	7°901'34	2°58'17
min. Earth dist.	10481 Jul 10 04:16	20°957'32	0.62308 AU	minimum elong	10482 Jun 20 18:13	6°955'52	
morning rise	10481 Jul 13 17:35	17°950'52	5.02500 AV	min. Earth dist.	10482 Jun 23 00:09	4°9519'26	0.64378 AU
morning rice		∠د ∪د ست ۱۱		mm. Larui UISt.	10702 Jun 23 00.09	, 1 7∠0	0.072/0 AU

mamina risa	10492 Jun 26 15:15	00642150		minimum alana	10492 Jun 04 12:29	20°T2425	2014125
morning rise	10482 Jun 26 15:15 10482 Jun 27 14:35	0°543'59 30°RⅡ		minimum elong min. Earth dist.	10483 Jun 04 12:38 10483 Jun 06 04:42	20° Ⅲ 24'25 18° Ⅲ 18'00	3°14'35 0.66104 AU
direct	10482 Jul 27 14.33 10482 Jul 03 06:36	28° ∏ 03'34			10483 Jun 10 01:34	14° I I06'08	0.00104 AU
desc. node	10482 Jul 03 04:29	28° I I03'36		morning rise direct	10483 Jun 16 10:07	11° II 21'53	
desc. Hode	10482 Jul 09 12:27	20 п 03 30 0° ©		desc. node	10483 Jun 20 01:33	11 H 21 33	
morning max el	10482 Jul 16 23:24	6°904'03	27°28'44	morning max el	10483 Jun 29 10:07	19° I 106'19	26°31'47
morning max ci	10482 Aug 04 05:50	0°Ω	27 20 44	morning max cr	10483 Jul 08 15:50	0°95	20 31 47
morning set	10482 Aug 21 04:12	29° Ω 43'57			10483 Jul 28 06:47	0°N	
morning set	10482 Aug 21 07:28	0° m)		morning set	10483 Aug 04 08:10	12° Ω 44'52	
max. Earth dist.	10482 Aug 25 21:08	9° m)15'18	1.33022 AU	max. Earth dist.	10483 Aug 08 09:04	20° Ω 32'13	1.34531 AU
asc. node	10482 Aug 26 06:39	10° m) 04'52	1.55022110	man zarm and.	10.001148 00 05.01	20 00213	1.0 .001 110
				superior conj	10483 Aug 13 05:38	0° mp 21'39	0°00'53
superior conj	10482 Aug 29 07:03	16° Mp 27'25	0°29'31	minimum elong	10483 Aug 13 05:36	0° mp 21'28	0°00'35
minimum elong	10482 Aug 29 05:39	16° m) 19'58	0°29'04	behind sun begin	10483 Aug 12 23:46	29° Ω 51'19	
	10482 Sep 04 13:58	0∘ <u>⊽</u>		behind sun end	10483 Aug 13 11:27	0° m 51'42	
evening rise	10482 Sep 05 08:32	1° ≏ 39'03		asc. node	10483 Aug 13 03:30	0° m) 10'34	
Č	10482 Sep 21 00:25	0° M .			10483 Aug 13 01:27	0° m)	
evening max el	10482 Sep 27 03:27	7° M ₊14'08	22°33'34	evening rise	10483 Aug 20 17:57	16° Mp 05'55	
desc. node	10482 Sep 29 02:22	9°MJ00'43		· ·	10483 Aug 27 17:44	0∘ ⊽	
retrograde	10482 Oct 10 04:26	13°M43'55		evening max el	10483 Sep 08 22:30	17° ≏ 37'56	21°00'33
evening set	10482 Oct 13 17:16	13°M16'27		desc. node	10483 Sep 15 23:39	22° ₽ 32'02	
min. Earth dist.	10482 Oct 21 10:51	9° M 49'05	0.54935 AU	retrograde	10483 Sep 20 16:07	23° ≏ 27'08	
inferior conj	10482 Oct 22 11:35	9° M .14'01	-5°35'58	evening set	10483 Sep 23 00:15	23° ≏ 14'12	
minimum elong	10482 Oct 22 06:40	9°M21'00	5°35'10	inferior conj	10483 Oct 02 03:39	19° ≙ 18'51	-4°33'37
morning rise	10482 Oct 30 21:45	5°M26'23		minimum elong	10483 Oct 01 17:50	19° ≏ 32'45	4°30'57
direct	10482 Nov 03 03:11	5°ML02'42		min. Earth dist.	10483 Oct 02 18:48	18° ≏ 57'25	0.54619 AU
morning max el	10482 Nov 14 17:05	10°M30'29	21°11'17	morning rise	10483 Oct 10 11:40	15° ≏ 24'41	
asc. node	10482 Nov 22 07:06	19°M48'38		direct	10483 Oct 14 11:18	14° ≏ 50'33	
	10482 Nov 28 07:29	0° ∡ ¹		morning max el	10483 Oct 27 09:51	21° ≏ 03'00	22°52'43
morning set	10482 Dec 04 13:39	12° ∡ ¹27'42			10483 Nov 04 00:03	0° M	
				asc. node	10483 Nov 09 04:01	8°M04'51	
superior conj	10482 Dec 11 20:53	27° ∡ ¹44'48	1°32'16	morning set	10483 Nov 19 00:50	27°M15'24	
minimum elong	10482 Dec 11 22:43	27° ∡ ¹54'15	1°32'39		10483 Nov 20 07:44	0° ∡ ¹	
	10482 Dec 12 23:09	0°₹				_	
max. Earth dist.	10482 Dec 16 12:16	7° る 08'45	1.35356 AU	superior conj	10483 Nov 26 00:25	12° ∡ 15'33	1°39'00
evening rise	10482 Dec 20 13:54	14° る 59'20		minimum elong	10483 Nov 26 01:02	12° ∡ 18'53	1°39'27
desc. node	10482 Dec 26 00:46	24° る 52'17		max. Earth dist.	10483 Nov 29 05:27	19° х 02'39	1.33696 AU
	10482 Dec 29 00:41	0° ≈		evening rise	10483 Dec 03 21:50	28° ₹ 32'12	
	10483 Jan 18 19:23	0° \	26020120	1 1	10483 Dec 04 15:47	0°る	
evening max el	10483 Jan 24 22:37	6° ¥ 39'37	26°29'20	desc. node	10483 Dec 12 21:47	15° る 07'19	
retrograde	10483 Feb 06 21:40	13° ¥ 58′07			10483 Dec 22 05:08	0°≈ 20°≈ -12147	27012110
evening set	10483 Feb 13 06:00	11° ¥ 25'36 7° ¥ 12'21	0.66492 AU	evening max el	10484 Jan 07 11:59	20°≈13'47	27°13'19
min. Earth dist.	10483 Feb 17 08:44 10483 Feb 18 05:55	6°\(\frac{12}{21}\)	0.00492 AU	retrograde evening set	10484 Jan 20 23:11 10484 Jan 27 17:00	27°≈36'45	
inferior conj	10483 Feb 18 03:35 10483 Feb 19 04:05	5° ∺ 01'49	0°18'07	min. Earth dist.	10484 Jan 31 14:38	25°≈03'12 21°≈23'02	0.65013 AU
minimum elong	10483 Feb 19 03:36	5° H 03'17	0°18'10	inferior conj	10484 Feb 02 21:36	18°≈51'20	
minimum clong	10483 Feb 24 01:00	30°R≈	0 10 10	minimum elong	10484 Feb 02 22:55	18°≈47'42	0°43'26
morning rise	10483 Feb 25 02:09	29°≈19'10		asc. node	10484 Feb 05 03:08	16°≈29'00	0 43 20
direct	10483 Feb 28 02:24	28°≈28'20		morning rise	10484 Feb 09 06:24	13°≈21'19	
	10483 Mar 04 07:09	0° ∀		direct	10484 Feb 11 21:41	12° ≈ 44'37	
morning max el	10483 Mar 06 15:00	1° ¥ 57'52	18°26'24	morning max el	10484 Feb 18 07:06	16°≈05'46	17°58'04
desc. node	10483 Mar 24 01:17	26°) 49′23		. 8	10484 Feb 28 09:59	0°) €	
	10483 Mar 26 01:22	0° Υ		morning set	10484 Mar 07 00:43	12°) €29'02	
morning set	10483 Mar 26 20:44	1° Ƴ 16'49		desc. node	10484 Mar 09 22:03	17°) 14′57	
C					10484 Mar 17 18:17	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	10483 Apr 11 17:20	26° Ƴ 14'24	-1°52'39				
minimum elong	10483 Apr 11 08:20	25° Ƴ 39'16	1°52'09	superior conj	10484 Mar 21 04:48	5° Ƴ 29'16	-1°17'23
max. Earth dist.	10483 Apr 12 03:06	26° Y ′52'35	1.45651 AU	minimum elong	10484 Mar 20 20:28	4° Ƴ 56'11	1°16'23
	10483 Apr 14 03:03	9° 8		max. Earth dist.	10484 Mar 24 22:51	11° Y 24'50	1.45387 AU
evening rise	10483 Apr 27 12:57	21° 8 02'56			10484 Apr 05 22:04	9° 8	
	10483 May 03 05:05	$\Pi^{\circ}0$		evening rise	10484 Apr 06 06:48	0° 8 33'38	
greatest brilliancy	10483 May 07 02:27	6° Ⅱ 05'16	-0.8m	greatest brilliancy	10484 Apr 20 10:04	21° 8 59'24	-0.6m
asc. node	10483 May 17 03:56	20° Ⅲ 32'53			10484 Apr 26 01:39	$\Pi^{\circ}0$	
evening max el	10483 May 19 19:49	23° II 32'07	18°55'31	evening max el	10484 May 02 01:53	7° Ⅱ 14'04	19°45'42
retrograde	10483 May 26 13:51	27° Ⅱ 16′22		asc. node	10484 May 03 01:06	8° Ⅲ 10′11	
evening set	10483 May 29 23:03	26° Ⅱ 10′13		retrograde	10484 May 09 11:48	11° Ⅲ 27'54	
inferior conj	10483 Jun 04 11:50	20° Ⅲ 26'57	2015107	evening set	10484 May 13 05:49	10° 耳 06′00	

	1040434 10 14 15	40 T 0012 4	2015126		10405 4 10 00 10	24014044	
inferior conj	10484 May 18 14:15	4° Ⅱ 08'34		asc. node	10485 Apr 19 22:18	24° 8 49'13	
minimum elong	10484 May 18 13:54	4° Ⅱ 09'45	3°16'59	retrograde	10485 Apr 23 10:29	25° 8 49'18	
min. Earth dist.	10484 May 19 16:22	2° Ⅱ 41'18	0.67399 AU	evening set	10485 Apr 27 14:10	24° 8 11'33	2005112
	10484 May 21 19:26	30° ₹ 8		inferior conj	10485 May 02 20:56	18° 8 01'34	3°07'42
morning rise	10484 May 23 21:39	27° 8 48'46		minimum elong	10485 May 02 19:38	18° 8 06'03	3°07'11
direct	10484 May 29 19:41	25° 8 11'14		min. Earth dist.	10485 May 03 09:09	17° 8 19'20	0.68237 AU
desc. node	10484 Jun 05 22:35	28° 8 04'00		morning rise	10485 May 08 00:53	11° 8 45'07	
	10484 Jun 08 07:45	0°II		direct	10485 May 13 10:11	9° 8 22'18	
morning max el	10484 Jun 10 20:03	2° Ⅲ 23'37	25°14'18	desc. node	10485 May 23 19:32	15° 8 24'13	
	10484 Jul 01 18:43	0°€		morning max el	10485 May 24 05:36	15° 8 49'24	23°46'08
morning set	10484 Jul 16 20:31	25° © 00'30			10485 Jun 04 21:18	Π °0	
	10484 Jul 19 14:19	0 $^{\circ}\Omega$			10485 Jun 24 18:05	0ಂತಾ	
max. Earth dist.	10484 Jul 20 11:16	1° Ω 37'11	1.36483 AU	morning set	10485 Jun 28 12:07	6°917'01	
				max. Earth dist.	10485 Jul 02 08:28	12° © 57'12	1.38719 AU
superior conj	10484 Jul 26 18:53	13° Ω 46′28					
minimum elong	10484 Jul 26 20:50	13° Ω 56′09	0°31'02	superior conj	10485 Jul 09 19:03	26° © 31'48	-1°04'17
asc. node	10484 Jul 30 00:22	20° Ω 14'25		minimum elong	10485 Jul 09 23:21	26° © 52'05	1°04'03
evening rise	10484 Aug 03 23:18	0° m ,18′39			10485 Jul 11 14:57	$0 {\circ} \Omega$	
	10484 Aug 03 19:37	0° m y		asc. node	10485 Jul 16 21:14	10° Ω 11'50	
evening max el	10484 Aug 21 06:57	28° m 43'38	19°45'17	evening rise	10485 Jul 18 21:45	14° Ω 09'04	
	10484 Aug 22 15:52	0∘ ⊽			10485 Jul 27 10:27	0° m y	
retrograde	10484 Aug 31 07:55	3° £ 42'38		evening max el	10485 Aug 04 04:10	10° m 34'59	18°51'09
desc. node	10484 Sep 01 20:56	3° ₽ 36′05		retrograde	10485 Aug 12 15:34	14° m 48'41	
evening set	10484 Sep 02 04:47	3° ₾ 33'03		evening set	10485 Aug 14 13:46	14° Mp 36'25	
	10484 Sep 10 07:04	30° ₽, M)		desc. node	10485 Aug 19 18:13	12° m 19'38	
inferior conj	10484 Sep 11 02:00	29° m/30'50	-2°49'20	inferior conj	10485 Aug 22 18:09	10° m)17'01	-0°55'51
minimum elong	10484 Sep 10 18:27	29° m 42'30	2°46'38	minimum elong	10485 Aug 22 15:48	10° m 21'13	0°55'08
min. Earth dist.	10484 Sep 13 04:59	28° m/ 12'05	0.55260 AU	min. Earth dist.	10485 Aug 25 19:34	8° Mp 06'04	0.56729 AU
morning rise	10484 Sep 19 06:19	25° m 10'41		morning rise	10485 Aug 30 14:33	5° m) 19'41	
direct	10484 Sep 24 01:28	24° m) 19'59		direct	10485 Sep 05 04:33	4° m/04'54	
	10484 Oct 06 13:40	0∘ ⊽		morning max el	10485 Sep 19 10:48	11° m) 27'29	26°15'37
morning max el	10484 Oct 07 21:09	1° £ 11'26	24°39'53		10485 Oct 03 18:42	0∘ ಹ	
asc. node	10484 Oct 26 00:55	26° £ 57'52		asc. node	10485 Oct 12 21:45	16° £ 17'54	
	10484 Oct 27 15:19	0°M		morning set	10485 Oct 17 23:24	26° £ 42'56	
	10101000 27 13.17	O IIO				20 - 12 30	
morning set	10484 Nov 02 12:38	12°ML02'04		•	10485 Oct 19 12:00	0° M .	
morning set	10484 Nov 02 12:38	12°M02'04		· ·	10485 Oct 19 12:00	0° M	
-	10484 Nov 02 12:38 10484 Nov 09 08:46	12°M02'04 26°M57'47	1°39'15	superior conj	10485 Oct 19 12:00 10485 Oct 24 19:47	0°ጤ 11° ጤ 44'59	1°33'33
superior conj				1 0	10485 Oct 24 19:47	11° M .44'59	1°33'33 1°33'46
-	10484 Nov 09 08:46	26° M 57'47		superior conj minimum elong max. Earth dist.			
superior conj	10484 Nov 09 08:46 10484 Nov 09 08:15	26°M57'47 26°M54'52		minimum elong max. Earth dist.	10485 Oct 24 19:47 10485 Oct 24 18:19	11°M44'59 11°M36'50	1°33'46
superior conj minimum elong max. Earth dist.	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09	26°M57'47 26°M54'52 0°×7	1°39'39	minimum elong	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47	11°M44'59 11°M36'50 13°M24'49	1°33'46
superior conj minimum elong	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17	26° M.57'47 26° M.54'52 0° ⊀ 1° ₹ 08'18 12° ₹ 31'49	1°39'39	minimum elong max. Earth dist. evening rise	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0° 🗷	1°33'46
superior conj minimum elong max. Earth dist. evening rise	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30	26° M.57'47 26° M.54'52 0° ⊀ 1° ≮ 08'18 12° ₹ 31'49 0° ♂	1°39'39	minimum elong max. Earth dist.	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°\$\mathref{X}\) 24°\$\mathref{X}\)28'18	1°33'46
superior conj minimum elong max. Earth dist.	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51	26°M.57'47 26°M.54'52 0° ¾ 1° ¾08'18 12° ¾31'49 0° ♂ 5° ♂02'03	1°39'39	minimum elong max. Earth dist. evening rise desc. node	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31	11°M.44'59 11°M.36'50 13°M.24'49 26°M.50'27 0° ₹ 24° ₹28'18 0° ₹	1°33'46 1.31723 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07	26° M.57'47 26° M.54'52 0° 🖈 1° 🗷 08'18 12° 🗷 31'49 0° ♂ 5° ♂ 02'03 0° ≈	1°39'39 1.32477 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10	11° M.44'59 11° M.36'50 13° M.24'49 26° M.50'27 0° ⊀ 24° ₹28'18 0° ♂ 15° ♂ 555'14	1°33'46 1.31723 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42	26° IL 57'47 26° IL 54'52 0° 🖈 1° ₹ 08'18 12° ₹ 31'49 0° ₹ 5° ₹ 02'03 0° ≈ 3° ≈ 23'26	1°39'39 1.32477 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°G 15°G55'14 23°G08'40	1°33'46 1.31723 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37	26°M57'47 26°M54'52 0°ダ 1°ダ'08'18 12°ダ'31'49 0°ゼ 5°ゼ02'03 0°≈ 3°≈23'26 10°≈43'11	1°39'39 1.32477 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°云 15°云55'14 23°云08'40 20°云56'27	1°33'46 1.31723 AU 27°16'33
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 09 17:26	26°M57'47 26°M54'52 0°ズ 1°ズ'08'18 12°ズ'31'49 0°उ 5°उ'02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53	1°39'39 1.32477 AU 27°30'54	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06 10485 Dec 26 21:39	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°云 15°云55'14 23°云08'40 20°云56'27 18°云09'56	1°33'46 1.31723 AU 27°16'33 0.61188 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 09 17:26 10485 Jan 13 11:26	26°M57'47 26°M54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°℧ 5°℧02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52	1°39'39 1.32477 AU 27°30'54 0.63218 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06 10485 Dec 26 21:39 10485 Dec 29 23:41	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°云 15°云55'14 23°云08'40 20°云56'27 18°云09'56 15°云28'01	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37
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superior conj 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	10484 Nov 09 08:46 10484 Nov 09 08:15 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 09 17:26 10485 Jan 13 11:26 10485 Jan 16 05:13 10485 Jan 16 08:57 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 25 10:57 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34	26°M57'47 26°M57'47 26°M54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°℧ 5°℧02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52 2°≈22'48 2°≈13'32 30°Rゼ 27°℧37'57 27°℧08'32 26°℧42'12 0°≈ 0°≈04'56 24°≈56'03	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37	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	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 23 04:06 10485 Dec 24 21:39 10485 Dec 25 23:41 10485 Dec 26 21:39 10485 Dec 27 23:41 10485 Dec 28 23:41 10485 Dec 29 23:41 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 21:20 10486 Feb 10 13:39	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°云 15°云55'14 23°云08'40 20°云56'27 18°云09'56 15°云28'01 15°云14'06 10°云32'54 10°云13'22 10°云13'43 13°云47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23
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superior conj 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	10484 Nov 09 08:46 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 09 17:26 10485 Jan 13 11:26 10485 Jan 16 05:13 10485 Jan 16 08:57 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 25 10:57 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34 10485 Feb 20 04:49 10485 Mar 01 12:13	26°M.57'47 26°M.54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°उ 5°उ02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52 2°≈22'48 2°≈13'32 30°Rउ 27°उ37'57 27°उ08'32 26°उ42'12 0°≈ 0°≈04'56 24°≈56'03 0°Ж 7°Ж49'47	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37 17°47'07	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	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 23 04:06 10485 Dec 24 21:39 10485 Dec 26 21:39 10485 Dec 29 23:41 10485 Dec 29 23:41 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 08 21:27 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 21:20 10486 Feb 10 13:39 10486 Feb 11 05:01 10486 Feb 11 15:35	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°℧ 15°℧55'14 23°℧08'40 20°℧56'27 18°℧09'56 15°℧28'01 15°℧14'06 10°℧32'54 10°℧13'22 10°℧13'43 13°℧47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03 27°≈44'39 28°≈30'13	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23
superior conj 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	10484 Nov 09 08:46 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 09 17:26 10485 Jan 13 11:26 10485 Jan 16 05:13 10485 Jan 16 08:57 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 25 10:57 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34 10485 Feb 20 04:49 10485 Mar 01 12:13 10485 Mar 01 12:13	26°M.57'47 26°M.54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°उ 5°उ02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52 2°≈22'48 2°≈13'32 30°Rउ 27°उ37'57 27°उ08'32 26°उ42'12 0°≈ 0°≈04'56 24°≈56'03 0°ዢ 7°Ҡ49'47	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37 17°47'07 -0°34'55 0°34'13	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	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 23 04:06 10485 Dec 24 21:39 10485 Dec 29 23:41 10485 Dec 29 23:41 10485 Dec 30 06:01 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 13:39 10486 Feb 11 05:01 10486 Feb 11 15:35 10486 Feb 11 15:35	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°℧ 15°℧55'14 23°℧08'40 20°℧56'27 18°℧9'56 15°℧28'01 15°℧14'06 10°℧32'54 10°℧13'22 10°℧13'43 13°℧47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03 27°≈44'39 28°≈30'13 0°光	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23
superior conj 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	10484 Nov 09 08:46 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 13 11:26 10485 Jan 16 05:13 10485 Jan 16 08:57 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34 10485 Feb 20 04:49 10485 Mar 01 12:13 10485 Mar 01 12:13 10485 Mar 01 08:34	26°M.57'47 26°M.54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°उ 5°♂02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52 2°≈22'48 2°≈13'32 30°Rउ 27°♂37'57 27°♂08'32 26°♂42'12 0°≈ 0°≈04'56 24°≈56'03 0°ዢ 7°Ҡ49'47 15°Ҡ43'08 15°Ҡ43'08	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37 17°47'07	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.	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06 10485 Dec 26 21:39 10485 Dec 29 23:41 10485 Dec 30 06:01 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 08 21:27 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 13:39 10486 Feb 11 05:01 10486 Feb 11 15:35 10486 Feb 12 12:29 10486 Feb 12 12:29	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°℧ 15°℧55'14 23°℧08'40 20°℧56'27 18°℧09'56 15°℧28'01 15°℧14'06 10°℧32'54 10°℧13'22 10°℧13'43 13°℧47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03 27°≈44'39 28°≈30'13 0°兴	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23
superior conj 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.	10484 Nov 09 08:46 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 16 05:13 10485 Jan 16 05:13 10485 Jan 16 05:13 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 25 10:57 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34 10485 Feb 20 04:49 10485 Mar 01 12:13 10485 Mar 01 12:13 10485 Mar 01 08:34 10485 Mar 07 17:21 10485 Mar 10 08:53	26°M.57'47 26°M.54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°उ 5°उ02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52 2°≈22'48 2°≈13'32 30°Rउ 27°उ37'57 27°उ08'32 26°उ42'12 0°≈ 0°≈04'56 24°≈56'03 0°ዢ 7°Ҡ49'47 15°Ҡ43'08 15°Ҡ28'07 25°Ҡ47'53 0°℃	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37 17°47'07 -0°34'55 0°34'13	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	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06 10485 Dec 26 21:39 10485 Dec 29 23:41 10485 Dec 30 06:01 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 21:20 10486 Feb 11 05:01 10486 Feb 11 15:35 10486 Feb 12 12:29 10486 Feb 18 07:51 10486 Feb 18 07:51	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°℧ 15°℧55'14 23°℧08'40 20°℧56'27 18°℧09'56 15°℧28'01 15°℧14'06 10°℧32'54 10°℧13'22 10°℧13'43 13°℧47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03 27°≈44'39 28°≈30'13 0°ℋ 9°ℋ44'21 19°ℋ50'05	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23
superior conj 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	10484 Nov 09 08:46 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 10 12:6 10485 Jan 16 05:13 10485 Jan 16 05:13 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 25 10:57 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34 10485 Feb 20 04:49 10485 Mar 01 12:13 10485 Mar 01 12:13 10485 Mar 01 08:34 10485 Mar 01 08:53 10485 Mar 10 08:53	26°M.57'47 26°M.54'52 0° ダー 1° ダー08'18 12° ダー31'49 0° 云 5° 云02'03 0° ※ 3° ※23'26 10° ※43'11 8° ※15'53 5° ※05'52 2° ※22'48 2° ※13'32 30° R 云 27° 云37'57 27° 云08'32 26° 云42'12 0° ※ 0° ※04'56 24° ※56'03 0° 光 7° 光 49'47 15° 光 43'08 15° 光 28'07 25° 升 47'53 0° Υ 9° Υ 57'06	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37 17°47'07 -0°34'55 0°34'13	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.	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06 10485 Dec 26 21:39 10485 Dec 29 23:41 10485 Dec 30 06:01 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 21:20 10486 Feb 10 13:39 10486 Feb 11 15:35 10486 Feb 11 15:35 10486 Feb 12 12:29 10486 Feb 18 07:51 10486 Feb 18 07:51 10486 Feb 24 14:31 10486 Mar 03 04:27	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°℧ 15°℧55'14 23°℧08'40 20°℧56'27 18°℧09'56 15°℧28'01 15°℧14'06 10°℧32'54 10°℧13'43 13°℧47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03 27°≈44'39 28°≈30'13 0°ℋ 9°升44'21 19°升50'05 0°℉	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23
superior conj 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.	10484 Nov 09 08:46 10484 Nov 10 18:09 10484 Nov 11 06:44 10484 Nov 16 16:17 10484 Nov 25 20:30 10484 Nov 28 18:51 10484 Dec 16 16:07 10484 Dec 19 23:42 10485 Jan 02 17:37 10485 Jan 16 05:13 10485 Jan 16 05:13 10485 Jan 16 05:13 10485 Jan 18 17:18 10485 Jan 22 00:19 10485 Jan 22 00:19 10485 Jan 23 02:36 10485 Jan 25 10:57 10485 Jan 31 22:40 10485 Feb 01 00:41 10485 Feb 17 06:34 10485 Feb 20 04:49 10485 Mar 01 12:13 10485 Mar 01 12:13 10485 Mar 01 08:34 10485 Mar 07 17:21 10485 Mar 10 08:53	26°M.57'47 26°M.54'52 0°ズ 1°ズ08'18 12°ズ31'49 0°उ 5°उ02'03 0°≈ 3°≈23'26 10°≈43'11 8°≈15'53 5°≈05'52 2°≈22'48 2°≈13'32 30°Rउ 27°उ37'57 27°उ08'32 26°उ42'12 0°≈ 0°≈04'56 24°≈56'03 0°ዢ 7°Ҡ49'47 15°Ҡ43'08 15°Ҡ28'07 25°Ҡ47'53 0°℃	1°39'39 1.32477 AU 27°30'54 0.63218 AU -1°54'36 1°52'37 17°47'07 -0°34'55 0°34'13 1.44410 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.	10485 Oct 24 19:47 10485 Oct 24 18:19 10485 Oct 25 13:47 10485 Oct 31 18:20 10485 Nov 02 06:49 10485 Nov 15 15:59 10485 Nov 19 06:31 10485 Dec 02 07:10 10485 Dec 16 04:18 10485 Dec 23 04:06 10485 Dec 26 21:39 10485 Dec 29 23:41 10485 Dec 30 06:01 10486 Jan 06 10:31 10486 Jan 08 14:35 10486 Jan 15 16:33 10486 Jan 26 17:28 10486 Feb 10 20:47 10486 Feb 10 20:47 10486 Feb 10 21:20 10486 Feb 11 05:01 10486 Feb 11 15:35 10486 Feb 12 12:29 10486 Feb 18 07:51 10486 Feb 18 07:51	11°M44'59 11°M36'50 13°M24'49 26°M50'27 0°ズ 24°ズ28'18 0°℧ 15°℧55'14 23°℧08'40 20°℧56'27 18°℧09'56 15°℧28'01 15°℧14'06 10°℧32'54 10°℧13'22 10°℧13'43 13°℧47'08 0°≈ 8°≈17'50 27°≈09'00 27°≈11'23 26°≈38'03 27°≈44'39 28°≈30'13 0°ℋ 9°ℋ44'21 19°ℋ50'05	1°33'46 1.31723 AU 27°16'33 0.61188 AU -3°09'37 3°06'50 17°54'23 0°05'59 0°06'13

asc. node	10486 Apr 06 19:31	10° 8 14'52		evening max el	10487 Mar 11 12:40	18° Ƴ 27'04	23°24'35
retrograde	10486 Apr 07 08:09	10° 8 16'14		retrograde	10487 Mar 22 03:16	24°43'02	25 24 55
evening set	10486 Apr 11 22:26	8° 8 23'10		asc. node	10487 Mar 24 16:45	24°Υ11'38	
inferior conj	10486 Apr 17 05:44	2° 8 03'00	2°47'29	evening set	10487 Mar 27 05:00	22°Υ35'50	
minimum elong	10486 Apr 17 03:47	2° 8 09'45	2°46'51	min. Earth dist.	10487 Apr 01 01:50	16° Y 52'56	0.68553 AU
min. Earth dist.	10486 Apr 17 05:03	2° 8 05'20	0.68617 AU	inferior conj	10487 Apr 01 14:41	16° Ƴ 08'45	2°17'37
	10486 Apr 18 17:26	30° ₹ Υ		minimum elong	10487 Apr 01 12:29	16° Ƴ 16'18	2°16'54
morning rise	10486 Apr 22 09:00	25° Y 51'18		morning rise	10487 Apr 06 19:55	10° Y 03′05	
direct	10486 Apr 27 04:44	23° Y 48'04		direct	10487 Apr 11 02:17	8° Ƴ 21'27	
morning max el	10486 May 06 17:13	29° Ƴ 23'35	22°16'56	morning max el	10487 Apr 19 10:05	13° Ƴ 07'47	20°54'42
	10486 May 07 07:30	0°8		desc. node	10487 Apr 27 13:13	22° Υ 51'15	
desc. node	10486 May 10 16:24	3° 8 45'43			10487 May 02 17:01	9° 8	
	10486 May 29 14:53	Π °0		morning set	10487 May 19 14:57	25° 8 22'27	
morning set	10486 Jun 09 02:20	16° Ⅲ 23'52			10487 May 22 13:34	Π °0	
max. Earth dist.	10486 Jun 14 07:11	24° Ⅱ 59'13	1.40990 AU	max. Earth dist.	10487 May 27 11:47	7° Ⅱ 53'42	1.43017 AU
	10486 Jun 17 05:55	0_{\circ} වෙ					
				superior conj	10487 Jun 03 10:59	19° Ⅱ 25'53	
superior conj	10486 Jun 22 01:54	8° © 28'03		minimum elong	10487 Jun 03 16:47	19° Ⅱ 50′26	2°00'53
minimum elong	10486 Jun 22 08:04	8° © 55'37	1°35'35		10487 Jun 09 14:26	0°50	
evening rise	10486 Jul 02 09:57	27°528'34		evening rise	10487 Jun 15 07:36	10°506'36	
asc. node	10486 Jul 03 18:10	29° © 58'55		asc. node	10487 Jun 20 15:09	19° © 31'03	
	10486 Jul 03 18:23	0°N	10015150	·	10487 Jun 27 01:15	0°N	10004142
evening max el	10486 Jul 18 10:45	23° Ω 05'51	18°17'59	evening max el	10487 Jul 01 22:48	6° Ω 07'00	18°04'43
retrograde	10486 Jul 25 18:17	26° Ω 47'02		retrograde	10487 Jul 08 13:39	9° Ω 30'35 9° Ω 00'44	
evening set inferior conj	10486 Jul 27 23:06 10486 Aug 04 08:06	26° Ω 27'45 21° Ω 48'06	0°41'26	evening set inferior conj	10487 Jul 11 02:23 10487 Jul 17 18:07	4° Ω 01'19	1°53'18
minimum elong	10486 Aug 04 08:06 10486 Aug 04 09:29	21° Ω 45'11	0°41′26 0°40′34	minimum elong	10487 Jul 17 18:07 10487 Jul 17 20:52	3° Ω 54'39	1°52'01
desc. node	10486 Aug 06 15:27	19° Ω 51′23	0 40 34	min. Earth dist.	10487 Jul 17 20.32 10487 Jul 20 22:04	0° Ω 58'11	0.61019 AU
min. Earth dist.	10486 Aug 07 16:45	19 δ <i>t</i> 51 25	0.58756 AU	iiiii. Eartii dist.	10487 Jul 20 22:04 10487 Jul 22 00:06	0 8 € 50 11	0.01019 AU
morning rise	10486 Aug 11 16:26	16° Ω 15'34	0.30730 AC	morning rise	10487 Jul 24 12:42	28°903'34	
direct	10486 Aug 17 21:57	14° Ω 31'15		desc. node	10487 Jul 24 12:38	28° © 03'41	
morning max el	10486 Sep 01 07:03	22°Ω16'48	27°23'49	direct	10487 Jul 31 03:42	25°950'54	
morning man vi	10486 Sep 08 02:50	0° mp	2, 23 .,		10487 Aug 10 02:11	0°Ω	
	10486 Sep 26 18:32	0∘ <u>⊽</u>		morning max el	10487 Aug 14 10:06	3° Ω 50′04	27°55'15
asc. node	10486 Sep 29 18:33	5° £ 57'26		C	10487 Sep 02 19:10	0° m	
morning set	10486 Oct 02 07:25	11° ≏ 13'04		morning set	10487 Sep 16 10:51	25° m 27'24	
				asc. node	10487 Sep 16 15:20	25° m 50'39	
superior conj	10486 Oct 09 07:32	26° ₽ 31'09	1°22'17		10487 Sep 18 14:50	0∘ ত	
minimum elong	10486 Oct 09 05:27	26° ≏ 19'38	1°22'14	max. Earth dist.	10487 Sep 22 07:11	7° £ 57'56	1.31668 AU
max. Earth dist.	10486 Oct 08 23:10	25° ≏ 44'39	1.31450 AU				
	10486 Oct 10 21:03	0° M		superior conj	10487 Sep 23 18:14	11° ≏ 10'58	1°05'44
evening rise	10486 Oct 16 01:32	11°M21'21		minimum elong	10487 Sep 23 16:00	10° ≏ 58'37	1°05'25
	10486 Oct 25 11:35	0° ∡ ¹		evening rise	10487 Sep 30 11:51	25° ≏ 58'54	
desc. node	10486 Nov 02 13:09	13° ∡ 14'16			10487 Oct 02 09:14	0°M	
evening max el	10486 Nov 14 07:45		26°27'58		10487 Oct 19 14:52	0° ∡	
	10486 Nov 17 00:50	0°る		desc. node	10487 Oct 20 10:22	1° ₹ 04'21	
retrograde	10486 Nov 28 06:06	4°る44'35		evening max el	10487 Oct 27 00:17	8°× 7 30'44	25°09'00
evening set min. Earth dist.	10486 Dec 04 20:46	2°る57'16	0.50067.411	retrograde	10487 Nov 09 20:58	15° 🖈 28'45	
min. Earth dist.	10486 Dec 08 21:18 10486 Dec 09 09:10	0°る22'00 30°Ŗ₰	0.59067 AU	evening set min. Earth dist.	10487 Nov 15 14:46	14° х 14'03 11° х 32'47	0.57086 AU
inferior conj	10486 Dec 12 01:27	27° ₹ 156'50	4022140	inferior conj	10487 Nov 20 12:16 10487 Nov 23 07:33	9° × ⁷ 41'08	
minimum elong	10486 Dec 12 01:27	27° х 30°30		minimum elong	10487 Nov 23 13:56	9°×730'32	
morning rise	10486 Dec 20 00:42	23°×23'32	4 20 03	morning rise	10487 Nov 23 15:30 10487 Dec 01 15:22	5° ₹ 29'57	3 1932
direct	10486 Dec 22 04:12	23°×707'26		direct	10487 Dec 03 23:59	5°×13'47	
asc. node	10486 Dec 26 18:32	24° × ¹ 25'44		morning max el	10487 Dec 13 04:13	9° × ⁷ 38'13	19°09'25
morning max el	10486 Dec 30 03:01	27° ₹ '01'47	18°21'12	asc. node	10487 Dec 13 15:33	10° ₹ 06'07	15 05 20
	10487 Jan 01 18:42	0°ਰ			10487 Dec 26 13:19	0°ਰ	
morning set	10487 Jan 14 22:45	22° ට 16'27		morning set	10487 Dec 29 23:01	6° ට 39'44	
C	10487 Jan 19 00:04	0° ≈		C			
				superior conj	10488 Jan 07 04:59	22° る 56'36	1°06'53
superior conj	10487 Jan 24 03:57	9° ≈ 37'57	0°40'28	minimum elong	10488 Jan 07 08:03	23° ප 11'27	1°06'59
minimum elong	10487 Jan 24 06:38	9° ≈ 50'15	0°40'29	-	10488 Jan 10 22:17	0° ≈	
desc. node	10487 Jan 29 12:23	19° ≈ 12′08		max. Earth dist.	10488 Jan 13 23:11	5° ≈ 33'56	1.38625 AU
max. Earth dist.	10487 Jan 31 17:09	23° ≈ 00′05	1.40817 AU	desc. node	10488 Jan 16 09:14	9° ≈ 52'10	
	10487 Feb 04 21:11	0°) €		evening rise	10488 Jan 17 18:07	12° ≈ 15′25	
evening rise	10487 Feb 05 05:31	0°) 34′17			10488 Jan 28 14:42	0° ℋ	
	10487 Feb 24 14:56	0 ° Υ			10488 Feb 19 21:37	0 ° Υ	

	10400 7 1 22 02 10	20001 (11.0	24042145		10400 5 1 02 15 45	1.601/105110	25055100
evening max el	10488 Feb 22 02:18		24°43'47	evening max el	10489 Feb 03 15:47	16° 米 05'48	25°55'00
retrograde	10488 Mar 04 18:32	9° Y ′04'47		retrograde	10489 Feb 16 05:00	23° ¥ 15'57	
evening set	10488 Mar 10 08:22	6° Y 45'17		evening set	10489 Feb 22 06:54	20°) 47′03	
asc. node	10488 Mar 10 14:00	6° Y 33'02		asc. node	10489 Feb 25 11:14	17°) € 32'30	
min. Earth dist.	10488 Mar 14 21:18	1° Y 37'24	0.68066 AU	min. Earth dist.	10489 Feb 26 13:09	16°) 14′07	0.67176 AU
inferior conj	10488 Mar 15 21:57	0° Υ 15'33	1°38'26	inferior conj	10489 Feb 28 01:38	14° 米 19'41	0°50'05
minimum elong	10488 Mar 15 19:58	0° Υ 22'08	1°37'48	minimum elong	10489 Feb 28 00:25	14° ¥ 23'30	0°49'48
	10488 Mar 16 02:38	30° Ŗ ₩		morning rise	10489 Mar 05 18:31	8°) 30′47	
morning rise	10488 Mar 21 07:45	24° ∺ 17'19		direct	10489 Mar 09 00:51	7° ∺ 29'57	
direct	10488 Mar 25 01:30	22° ¥ 57′03		morning max el	10489 Mar 15 18:27	11° ∺ 09'04	18°50'23
morning max el	10488 Apr 01 10:25	27° ∺ 03'30	19°44'52		10489 Mar 29 15:40	0° Y	
	10488 Apr 04 03:25	0° Y		desc. node	10489 Mar 31 06:46	2° Ƴ 30′19	
desc. node	10488 Apr 13 10:00	12° Y ′28′58		morning set	10489 Apr 06 22:29	12° Y 50′22	
greatest brilliancy	10488 Apr 14 06:12	13° Ƴ 42'32	-0.6m		10489 Apr 17 22:32	9° 8	
	10488 Apr 25 02:17	9° 8		max. Earth dist.	10489 Apr 21 16:56	5° 8 53'33	1.45465 AU
morning set	10488 Apr 27 13:53	3° 8 48'40					
max. Earth dist.	10488 May 08 23:30	21° 8 36'19	1.44567 AU	superior conj	10489 Apr 23 08:17	8° 8 27'53	-2°05'52
				minimum elong	10489 Apr 23 02:05	8° 8 03'30	2°05'51
superior conj	10488 May 13 19:46	29° 8 21'17	-2°12'46		10489 May 06 21:29	$\Pi^{\circ}0$	
minimum elong	10488 May 13 20:56	29° 8 26'01	2°13'11	evening rise	10489 May 08 12:37	2° Ⅱ 37'42	
	10488 May 14 05:21	Π $^{\circ}0$		asc. node	10489 May 24 09:19	27° Ⅲ 24'30	
evening rise	10488 May 27 09:47	21° Ⅲ 51'42			10489 May 26 08:42	0°99	
	10488 Jun 01 05:11	0°99		evening max el	10489 May 29 01:14	3° 5 02'15	18°34'00
asc. node	10488 Jun 06 12:12	8° 9 41'55		retrograde	10489 Jun 04 13:19	6°934'13	
evening max el	10488 Jun 14 12:38	19° 5 28'21	18°10'18	evening set	10489 Jun 07 17:54	5° 5 36'39	
retrograde	10488 Jun 20 21:22	22°5649'11		inferior conj	10489 Jun 13 10:33	0°ഇ02'01	3°07'22
evening set	10488 Jun 23 18:02	22°906'13		minimum elong	10489 Jun 13 12:02	29° Ⅱ 57'31	3°06'41
inferior conj	10488 Jun 29 20:16	16° © 48'22	2°40'36	Č	10489 Jun 13 11:13	30°R Ⅱ	
minimum elong	10488 Jun 29 22:45	16° © 41'32	2°39'34	min. Earth dist.	10489 Jun 15 12:00	27° II 32'56	0.65162 AU
min. Earth dist.	10488 Jul 02 12:26	13° 9 53'18	0.63227 AU	morning rise	10489 Jun 19 05:17	23° Ⅱ 42'38	
morning rise	10488 Jul 06 01:51	10°935'52		direct	10489 Jun 25 18:19	20° I 59'30	
desc. node	10488 Jul 10 09:49	8°921'20		desc. node	10489 Jun 27 06:54	21° I I07'26	
direct	10488 Jul 12 19:03	8°902'33		morning max el	10489 Jul 09 04:35		27°07'42
morning max el	10488 Jul 26 18:03	16°905'04	27°48'26		10489 Jul 10 06:06	0°ಅ	
morning man er	10488 Aug 07 04:38	0° Ω	27 1020		10489 Aug 01 00:58	0°N	
	10488 Aug 25 12:27	0° m)		morning set	10489 Aug 13 18:29	22° Ω 40'57	
morning set	10488 Aug 30 07:27	9° m) 18'56		morning sec	10489 Aug 17 11:19	0° m)	
asc. node	10488 Sep 02 12:09	15° Mp 51'54		max. Earth dist.	10489 Aug 18 04:20	1° m)26'19	1.33615 AU
max. Earth dist.	10488 Sep 04 10:00	19° m 53'45	1.32387 AU	asc. node	10489 Aug 20 09:00	5° m) 57'18	1.55015 110
max. Earth dist.	10100 Sep 01 10.00	19 119 33 13	1.52507 110	use. Houe	10109 Hug 20 09.00	3 mg 3 / 10	
superior conj	10488 Sep 07 01:58	25° m 37'42	0°44'08	superior conj	10489 Aug 22 04:37	9° m)45'48	0°17'53
minimum elong	10488 Sep 07 00:05	25° m) 27'31	0°43'40	minimum elong	10489 Aug 22 03:43	9° m)41'04	0°17'28
8	10488 Sep 09 02:07	0∘ ⊽		evening rise	10489 Aug 29 10:06	25° m/09'25	
evening rise	10488 Sep 13 23:19	10° ₽ 36'36			10489 Aug 31 17:48	0∘ ⊽	
8 21	10488 Sep 23 19:15	0° M		evening max el	10489 Sep 19 00:43	28° ≏ 55'29	21°52'08
desc. node	10488 Oct 06 07:37	17°M36'15		<i>5</i>	10489 Sep 20 04:09	0° M	
evening max el	10488 Oct 07 11:19	18°ML45'46	23°31'21	desc. node	10489 Sep 23 04:54	2°M22'26	
retrograde	10488 Oct 20 22:50	25°M29'08		retrograde	10489 Oct 01 13:42	5° M ₀09'47	
evening set	10488 Oct 25 08:31	24°M46'58		evening set	10489 Oct 04 12:52	4° M ₅50'02	
min. Earth dist.	10488 Oct 31 21:22		0.55531 AU	min. Earth dist.	10489 Oct 13 04:25		0.54695 AU
inferior conj	10488 Nov 02 17:30	20°M36'19		inferior conj	10489 Oct 13 12:40	0°M52'04	
minimum elong	10488 Nov 02 17:24	20°M36'28		minimum elong	10489 Oct 13 04:49	1°ML03'03	
morning rise	10488 Nov 11 04:07	16°ML43'18	0 .000	g	10489 Oct 15 02:11	30°R <u>₽</u>	2 1.50
direct	10488 Nov 14 00:43	16°M23'16		morning rise	10489 Oct 21 22:06	27° ₽ 04'36	
morning max el	10488 Nov 24 16:44	21°M26'01	20°20'28	direct	10489 Oct 25 11:17	26° ♀ 37'01	
asc. node	10488 Nov 29 12:32	26°M59'02	20 20 20		10489 Nov 03 18:51	0°M	
ase. Houe	10488 Dec 01 15:12	0° ⊼		morning max el	10489 Nov 06 15:46	2°M23'14	21°52'49
morning set	10488 Dec 13 05:23	21° х 18'13		asc. node	10489 Nov 16 09:29	14°M48'57	V= 1/
morning set	10488 Dec 17 10:36	0°る		use. Houe	10489 Nov 24 16:42	0° √	
	10-100 DCC 1/ 10.30	ν O		morning set	10489 Nov 27 15:24	6° ∡ ¹04'37	
superior conj	10488 Dec 20 19:12	6° る 51'45	1°25'12	morning set	1010/1101 2/ 13.24	O A 073/	
minimum elong	10488 Dec 20 21:38	7°る04'03	1°25'28	superior conj	10489 Dec 04 18:47	21° ҳ 12'28	1°35'57
max. Earth dist.	10488 Dec 26 06:31	7 3 0403	1.36484 AU	minimum elong	10489 Dec 04 20:06	21°×7'19'25	1°36'23
evening rise	10488 Dec 30 02:22	17 3 38 14 24° る 47'18	1.50 101 /10	max. Earth dist.	10489 Dec 04 20:00 10489 Dec 08 19:29	21 × 1923 29° × 31'42	1.34603 AU
desc. node	10489 Jan 02 06:10	0°≈26'23		Durin dist.	10489 Dec 09 01:05	0°る	1.5 .005 110
acce. node	10489 Jan 02 00:10	0 ≈ 2023		evening rise	10489 Dec 13 02:43	8° ろ 00'37	
		0° ∺		-			
	10489 Jan 21 05:03	()~ 11		desc. node	10489 Dec 20 03:09	20°る50'08	

morning set

10490 Nov 12 03:05

10490 Nov 16 08:17

 20° M $_{53}$ ' $_{23}$

0°×7

10491 Oct 24 22:11

10491 Oct 27 14:37

morning set

0°M

5°MJ38'22

superior conj	10491 Nov 03 10:26	20°M35'35	1°37'32		10492 Sep 30 15:37	0∘ ত	
minimum elong	10491 Nov 03 10:20	20°M30'17	1°37'52	asc. node	10492 Scp 30 13.37 10492 Oct 07 00:04	0 = 11° £ 57'37	
max. Earth dist.	10491 Nov 04 20:05	23°M40'37	1.32095 AU	morning set	10492 Oct 11 00:25	20° ♀ 15'21	
max. Earth dist.	10491 Nov 07 18:03	23 11 6 40 37	1.32093 AU	morning set	10492 Oct 11 00.23	0°M	
evening rise	10491 Nov 10 13:33	5° ∡ ¹55'27			10472 001 13 11.40	O IIG	
evening rise	10491 Nov 23 11:07	0°중		superior conj	10492 Oct 17 21:59	5°M₊23'21	1°29'27
desc. node	10491 Nov 23 21:17	0°る42'00		minimum elong	10492 Oct 17 20:13	5°M13'30	1°29'33
evening max el	10491 Dec 13 04:06	26° る 08'15	27°28'54	max. Earth dist.	10492 Oct 17 20:13 10492 Oct 18 04:32	5°M59'47	1.31553 AU
evening max er	10491 Dec 17 20:10	0°≈	27 2001	evening rise	10492 Oct 24 18:05	20°M20'36	1.51555110
retrograde	10491 Dec 27 00:09	3°≈26'15		evening rise	10492 Oct 29 11:25	0° √	
evening set	10491 Dec 27 00:09	1°≈04'12		desc. node	10492 Nov 09 18:25	19° х 52'47	
evening sec	10492 Jan 04 11:57	30°R₹		desc. node	10492 Nov 16 21:45	0°중	
min. Earth dist.	10492 Jan 06 17:50		0.62375 AU	evening max el	10492 Nov 24 09:10	್ರಿಕ್ 8° ಕ್ರ 21'11	27°00'01
inferior conj	10492 Jan 09 15:36	25° る 20'36		retrograde	10492 Dec 08 07:09	15° る 31'03	27 00 01
minimum elong	10492 Jan 09 20:28	25° る 09'07		evening set	10492 Dec 15 04:10	13° る 28'43	
morning rise	10492 Jan 16 18:43	20°る14'05	2 23 44	min. Earth dist.	10492 Dec 18 23:42	10°る48'24	0.60291 AU
asc. node	10492 Jan 17 02:46	20° ろ 07'51		inferior conj	10492 Dec 22 03:25	8° ප 11'53	
direct	10492 Jan 19 00:42	19°る51'13		minimum elong	10492 Dec 22 10:40	7° る 56'50	
morning max el	10492 Jan 25 18:52	19 3 31 13 23° る 17'52	17047151	morning rise	10492 Dec 22 10.40 10492 Dec 29 19:47	7 03030 3° る 25'23	3 36 33
morning max er	10492 Jan 31 02:22	23 O1732 0°≈	1/4/31	direct	10492 Dec 29 19.47 10492 Dec 31 23:02	3°る2323	
morning got		0 ≈ 17°≈51'19		asc. node		3°る0742 3°る24'25	
morning set	10492 Feb 10 16:02	0° ∺			10493 Jan 02 23:52 10493 Jan 08 08:48	5 02423 6° 3 49'16	10002111
JJ.	10492 Feb 17 14:02	0°π 3°₩56'25		morning max el			18-03-11
desc. node	10492 Feb 19 21:04	3° \(\pi\) 30°23		. ,	10493 Jan 23 04:09	0° ≈	
	10402 F 1 22 02 22	70 1 4 (120	0017101	morning set	10493 Jan 23 23:43	1° ≈ 30'47	
superior conj	10492 Feb 22 03:22	7°) € 46′28			10402 F 1 02 22 00	10040114	0021122
minimum elong	10492 Feb 22 01:43	7°) 39'31	0°16'32	superior conj	10493 Feb 02 22:00	19° ≈ 40'14	0°21'33
max. Earth dist.	10492 Feb 29 00:24	19°) €06'08	1.43801 AU	minimum elong	10493 Feb 02 23:42	19° ≈ 47'50	0°21'39
	10492 Mar 06 21:32	0° Υ		desc. node	10493 Feb 05 17:51	24° ≈ 37'52	
evening rise	10492 Mar 07 19:05	1° Y ′23'38			10493 Feb 08 21:04	0° ∀	
	10492 Mar 27 03:23	0°8		max. Earth dist.	10493 Feb 10 12:47	2°) 46′51	1.42017 AU
evening max el	10492 Apr 07 11:41		21°20'44	evening rise	10493 Feb 15 22:34	11°) € 37'09	
asc. node	10492 Apr 14 00:49	18° 8 52'30			10493 Feb 27 21:45	0° Υ	
retrograde	10492 Apr 16 06:57	19° 8 17'26		evening max el	10493 Mar 21 05:02	27° Y ′52'19	22°38'22
evening set	10492 Apr 20 14:57	17° 8 33'20			10493 Mar 23 11:33	0°8	
inferior conj	10492 Apr 25 21:42	11° 8 18'50	3°00'22	retrograde	10493 Mar 31 03:32	3° 8 44'51	
minimum elong	10492 Apr 25 20:05	11° 8 24'27	2°59'47	asc. node	10493 Mar 31 22:01	3° 8 41'58	
min. Earth dist.	10492 Apr 26 04:26	10° 8 55'26	0.68452 AU	evening set	10493 Apr 04 22:38	1° 8 45'40	
morning rise	10492 May 01 01:01	5° 8 04'05			10493 Apr 06 17:23	30° Ŗ ♈	
direct	10492 May 06 04:39	2° 8 48'53		inferior conj	10493 Apr 10 06:46	25° Y ′22'23	
morning max el	10492 May 16 10:51	8° 8 54'37	23°07'43	minimum elong	10493 Apr 10 04:40	25° Y 29'41	2°35'16
desc. node	10492 May 17 21:51	10° 8 26'02		min. Earth dist.	10493 Apr 10 00:54	25° Ƴ 42'47	0.68646 AU
	10492 Jun 01 23:55	Π $^{\circ}$ 0		morning rise	10493 Apr 15 10:34	19° Ƴ 13'14	
morning set	10492 Jun 20 01:49	28° Ⅱ 04'30		direct	10493 Apr 20 00:40	17° Ƴ 18'54	
	10492 Jun 21 05:24	0 \circ		morning max el	10493 Apr 29 00:09	22° Y 32'09	21°40'41
max. Earth dist.	10492 Jun 24 07:42	5° © 16'30	1.39691 AU	desc. node	10493 May 04 18:41	29° Ƴ 07'54	
					10493 May 05 11:10	9° 8	
superior conj	10492 Jul 02 01:07	19° © 03'20	-1°18'08		10493 May 26 07:18	Π °0	
minimum elong	10492 Jul 02 06:21		1°17'51	morning set	10493 May 31 04:30	7° Ⅱ 39'51	
	10492 Jul 07 20:56	0 ° Ω		max. Earth dist.	10493 Jun 06 08:52	17° Ⅱ 41'47	1.41901 AU
asc. node	10492 Jul 10 23:39	5° Ω 58′08					
evening rise	10492 Jul 11 15:23	7° Ω 13'41		superior conj	10493 Jun 13 23:11	0° © 35'47	-1°47'34
	10492 Jul 24 22:17	0° m y		minimum elong	10493 Jun 14 05:37	1° 5 03'48	1°47'27
evening max el	10492 Jul 27 17:05	3° Mp 10'58	18°34'39		10493 Jun 13 14:58	0°€	
retrograde	10492 Aug 04 15:05	7° Mp 08'36		evening rise	10493 Jun 24 21:55	20°916'40	
evening set	10492 Aug 06 15:54	6° Mp 53′46		asc. node	10493 Jun 27 20:36	25° © 39'25	
desc. node	10492 Aug 13 20:41	2° m 55'22			10493 Jun 30 06:37	$0^{\circ}\Omega$	
inferior conj	10492 Aug 14 12:01	2° Mp 26'10	-0°11'47	evening max el	10493 Jul 11 02:27	15° Ω 55'39	18°09'59
minimum elong	10492 Aug 14 11:33	2° m 27'04	0°11'53	retrograde	10493 Jul 18 01:22	19° Ω 27'21	
transit middle	10492 Aug 14 11:33	2° Mp 27'04	0°11'53	evening set	10493 Jul 20 09:38	19° Ω 03'49	
transit begin	10492 Aug 14 09:06	2° Mp 31'45		inferior conj	10493 Jul 27 10:50	14° Ω 15'19	1°15'07
transit end	10492 Aug 14 13:59	2° Mp 22'22		minimum elong	10493 Jul 27 13:03	14° Ω 10′20	1°13'57
	10492 Aug 17 16:43	30°R Ω		min. Earth dist.	10493 Jul 30 18:32	11° Ω 18′10	0.59711 AU
min. Earth dist.	10492 Aug 17 18:24	29° Ω 56'55	0.57540 AU	desc. node	10493 Jul 31 17:55	10° Ω 29'57	
morning rise	10492 Aug 22 03:42	27° Ω 13'17		morning rise	10493 Aug 03 13:24	8° Ω 31′01	
direct	10492 Aug 28 01:12	25° Ω 46′00		direct	10493 Aug 09 23:52	6° Ω 34'19	
	10492 Sep 07 13:06	0° m)		morning max el	10493 Aug 24 08:07	14° Ω 25'48	27°42'01
morning max el	10492 Sep 11 09:01	3° m/ 19'18	26°48'38	-	10493 Sep 05 21:02	0° m)	
-	•				•	•	

	10493 Sep 23 00:37	0° ⊽		marning gat	10494 Sep 09 07:33	100 m ///101	
1-	1	* —		morning set	•	18° Mp 44'21	
asc. node	10493 Sep 23 20:54	1° £ 43'30		asc. node	10494 Sep 10 17:43	21° Mp 40'37	
morning set	10493 Sep 25 06:43	4° £ 39'04	1 21 40 6 4 1 1	To all the	10494 Sep 14 15:34	0∘ ʊ	1 21010 411
max. Earth dist.	10493 Oct 01 13:57	18° ≏ 18'34	1.31486 AU	max. Earth dist.	10494 Sep 14 20:22	0° ჲ 26'01	1.31910 AU
	10402 0 4 02 00 20	200 0 07107	1015154		10404.0 16.10.10	40.0 41127	0057110
superior conj	10493 Oct 02 09:30		1°15'54	superior conj	10494 Sep 16 19:10	4° £ 41'37	
minimum elong	10493 Oct 02 07:18	19° £ 54'54	1°15'44	minimum elong	10494 Sep 16 17:01	4° £ 29'47	0°56'46
	10493 Oct 06 20:31	0°M		evening rise	10494 Sep 23 13:53	19° ≙ 32'56	
evening rise	10493 Oct 09 02:51	4°M54'59			10494 Sep 28 14:46	0° M ₊	
	10493 Oct 22 05:35	0° ∡		desc. node	10494 Oct 14 12:51	25°M37'08	
desc. node	10493 Oct 27 15:37	8° ∡ 17'19			10494 Oct 18 13:20	0° ∡ 7	
evening max el	10493 Nov 06 06:29	19° ∡ 42'51	25°57'36	evening max el	10494 Oct 18 19:49	0° ≯ 15'38	24°28'44
retrograde	10493 Nov 20 04:11	26° ≯ ⁴45′12		retrograde	10494 Nov 01 13:45	7° ₹ 09'17	
evening set	10493 Nov 26 11:44	25° ҂ 11'08		evening set	10494 Nov 06 19:12	6° ≯ 08'42	
min. Earth dist.	10493 Nov 30 19:10	22° ₹ 35'49	0.58197 AU	min. Earth dist.	10494 Nov 12 06:53	3° ҂ 19'31	0.56348 AU
inferior conj	10493 Dec 03 21:09	20° 尽 23'11	-4°50'27	inferior conj	10494 Nov 14 18:25	1° ∡ ¹46′07	-5°37'08
minimum elong	10493 Dec 04 04:58	20° ₹ 09'06	4°48'08	minimum elong	10494 Nov 14 22:37	1° ₹ 39'31	5°36'18
morning rise	10493 Dec 12 00:39	15° ₹ '59'19			10494 Nov 17 16:36	30°₽M₊	
direct	10493 Dec 14 05:45	15° ∡ ¹43'29		morning rise	10494 Nov 23 04:11	27° M 44'03	
asc. node	10493 Dec 20 20:56	18° ∡ 15'58		direct	10494 Nov 25 17:05	27°M26'47	
morning max el	10493 Dec 22 15:46	19° ∤ 49'09	18°38'58		10494 Dec 02 23:22	0° ⊼ ¹	
Ü	10493 Dec 30 06:13	0°₹		morning max el	10494 Dec 05 11:59	2° ҂ 106'13	19°36'58
morning set	10494 Jan 07 19:07	15°₹42'06		asc. node	10494 Dec 07 17:58	4° × 729'20	
morning sec	10494 Jan 15 04:58	0°≈		morning set	10494 Dec 22 22:21	0° ට 13'11	
	101713411 13 01.30	0 / 0 .		morning set	10494 Dec 22 19:43	0°ਤ	
superior conj	10494 Jan 16 13:26	2° ≈ 32'49	0°52'41		10474 Dec 22 17.43	° O	
minimum elong	10494 Jan 16 16:28	2°≈46'58	0°52'42	superior conj	10494 Dec 30 20:40	16° る 09'13	1°15'36
desc. node	10494 Jan 23 14:41	2 ≈40 38 15°≈19'51	0 3242	minimum elong		16°る0913	1°15'46
			1 20000 ATT	C	10494 Dec 30 23:34 10495 Jan 06 02:57	10 32328 28° る 06'56	1.37689 AU
max. Earth dist.	10494 Jan 23 20:58	15°≈47'20	1.39898 AU	max. Earth dist.			1.37089 AU
evening rise	10494 Jan 27 22:50	22°≈46'24			10495 Jan 07 03:35	0° ≈	
	10494 Feb 01 08:19	0° ∀		evening rise	10495 Jan 09 20:11	4°≈50'20	
	10494 Feb 21 20:16	0°Υ		desc. node	10495 Jan 10 11:34	5°≈58'11	
evening max el	10494 Mar 03 19:26	11° Y 40′24	23°58'44		10495 Jan 25 08:23	0° ∺	
retrograde	10494 Mar 14 21:05	18° Ƴ 11'01		evening max el	10495 Feb 14 08:41	25° ¥ 29'53	25°15'21
asc. node	10494 Mar 18 19:16	16° Y 58'55			10495 Feb 19 17:03	0° Υ	
evening set	10494 Mar 20 04:04	15° Y 58′04		retrograde	10495 Feb 26 10:33	2° Y 29'39	
min. Earth dist.	10494 Mar 24 21:17	10° Ƴ 30′23	0.68402 AU	evening set	10495 Mar 04 05:37	0° Υ 05'24	
inferior conj	10494 Mar 25 15:15	9° Ƴ 29'25	2°02'06		10495 Mar 04 08:09	30° Ŗ ₩	
minimum elong	10494 Mar 25 13:05	9° Ƴ 36'47	2°01'24	asc. node	10495 Mar 05 16:31	28°) 42′53	
morning rise	10494 Mar 30 22:09	3° Y 27′01		min. Earth dist.	10495 Mar 08 15:28	25° ∺ 12'34	0.67739 AU
direct	10494 Apr 03 23:03	1° Y 54'41		inferior conj	10495 Mar 09 21:15	23°) 35′48	1°19'03
morning max el	10494 Apr 11 20:10	6° Y 22'11	20°23'17	minimum elong	10495 Mar 09 19:31	23°) 41'26	1°18'32
desc. node	10494 Apr 21 15:29	18° Ƴ 28'40		morning rise	10495 Mar 15 09:47	17°) 41'29	
	10494 Apr 29 14:58	9° 8		direct	10495 Mar 18 22:26	16° ₩ 30'00	
morning set	10494 May 10 09:01	16° 8 18'23		morning max el	10495 Mar 26 00:01	20° ∺ 23'25	19°19'42
	10494 May 19 02:02	$\Pi^{\circ}0$			10495 Apr 02 19:21	$0^{\circ}\Upsilon$	
max. Earth dist.	10494 May 19 17:10		1.43752 AU	greatest brilliancy	10495 Apr 07 19:40	7° Y 15'36	-0.7m
				desc. node	10495 Apr 08 12:16	8° Υ 17'25	
superior conj	10494 May 25 21:57	11° Ⅱ 06'43	-2°07'51	morning set	10495 Apr 19 09:08	24° Υ 51'40	
minimum elong	10494 May 26 02:22	11° II 25'01		morning sec	10495 Apr 22 16:55	0°8	
minimum ciong	10494 Jun 06 00:34	0°ඉ	2 00 00	max. Earth dist.	10495 May 02 07:19	_	1.45034 AU
evening rise	10494 Jun 07 11:55	2°933'52		max. Latur dist.	10493 May 02 07.19	14 039 02	1.43034 AO
asc. node				aumorior comi	10405 May 05 21:00	200 20100	2012122
	10494 Jun 14 17:37	15°903'25	10004145	superior conj	10495 May 05 21:00	20° 8 38'08	
evening max el	10494 Jun 24 15:36	29° © 05'59	18°04'45	minimum elong	10495 May 05 19:03	20° 8 30'19	2-12-42
	10494 Jun 25 14:57	0°N			10495 May 11 17:04	0°II	
retrograde	10494 Jul 01 02:41	2° Ω 26'57		evening rise	10495 May 20 04:30	13° Ⅱ 54'28	
evening set	10494 Jul 03 18:46	1° Ω 51'47		_	10495 May 29 23:39	0°©	
	10494 Jul 06 17:15	30° ₹ 5	001 (100	asc. node	10495 Jun 01 14:42	4°503'34	1001011
inferior conj	10494 Jul 10 04:15	26°5544'00	2°16'09	evening max el	10495 Jun 08 05:12	12°533'30	18°18'13
minimum elong	10494 Jul 10 07:01	26°536'52		retrograde	10495 Jun 14 14:28	15°957'48	
min. Earth dist.	10494 Jul 13 03:37	23°5941'51	0.61980 AU	evening set	10495 Jun 17 14:21	15° © 08'57	
morning rise	10494 Jul 16 17:05	20°538'33		inferior conj	10495 Jun 23 12:04	9° 5 43'50	2°54'12
desc. node	10494 Jul 18 15:06	19° 5 28'22		minimum elong	10495 Jun 23 14:11	9° 5 37'45	2°53'19
direct	10494 Jul 23 09:38	18° © 16'14		min. Earth dist.	10495 Jun 25 22:11	6° © 57'43	0.64087 AU
morning max el	10494 Aug 06 13:47	26°518'07	27°56'58	morning rise	10495 Jun 29 12:41	3° 5 27'16	
	10494 Aug 10 00:34	$0^{\circ}\Omega$		desc. node	10495 Jul 05 12:13	0°549'49	
	10494 Aug 30 11:21	0° m		direct	10495 Jul 06 04:43	0°948'14	

morning max el	10495 Jul 19 23:20	8°549'58	27°34'51		10496 Jul 28 15:22	0°N	
	10495 Aug 05 10:04	0 $^{\circ}\Omega$		morning set	10496 Aug 06 06:24	15° Ω 31'45	
	10495 Aug 22 18:57	0° m)		max. Earth dist.	10496 Aug 10 09:26	23° Ω 33'05	1.34278 AU
morning set	10495 Aug 24 00:31	2° m/25'05			10496 Aug 13 13:56	0° m)	
asc. node	10495 Aug 28 14:33	11° m) 44'37		asc. node	10496 Aug 14 11:23	1° m 50'34	
max. Earth dist.	10495 Aug 28 19:53	12° m 12'28	1.32840 AU		10406 1 15 00 45	207 50152	0005120
	10405 G 01 01 02	100 m 01140	0022122	superior conj	10496 Aug 15 00:45	2° My 59'52	0°05'30
superior conj	10495 Sep 01 01:03	19° Mp 01'40	0°33'32	minimum elong	10496 Aug 15 00:28	2° Mp 58'23	0°05'10
minimum elong	10495 Aug 31 23:30	18° Mp 53'24 0° <u>₽</u>	0°33'04	behind sun begin behind sun end	10496 Aug 14 18:57	2° Mp 29'47	
ovenina rice	10495 Sep 06 02:50 10495 Sep 08 01:19	0° 22 4° 2 09'31			10496 Aug 15 05:58	3° Mp 27'03 18° Mp 38'09	
evening rise	10495 Sep 08 01.19 10495 Sep 21 22:00	4 == 0931 0° M		evening rise	10496 Aug 22 11:07 10496 Aug 28 02:07	0∘ ⊽	
evening max el	10495 Sep 21 22:00 10495 Sep 30 06:36	10°M23'58	22048124	evening max el	10496 Sep 11 00:01	0 = 20° £ 43'32	21013125
desc. node	10495 Oct 01 10:08	10 11c23 38	22 40 24	desc. node	10496 Sep 17 00:01	20 = 43 32 25° £ 20'27	21 13 23
retrograde	10495 Oct 13 10:56	16°M57'53		retrograde	10496 Sep 22 22:56	25 = 20 27 26° ⊆ 39'24	
evening set	10495 Oct 17 05:01	16°M27'05		evening set	10496 Sep 25 10:28	26° £ 25'07	
min. Earth dist.	10495 Oct 24 15:00	13°ML05'47	0.55063 AU	inferior conj	10496 Oct 04 13:27	20° ⊆ 29'37	-4°46'26
inferior conj	10495 Oct 25 21:02	12°M22'50		minimum elong	10496 Oct 04 03:53	22° ⊆ 43'04	4°43'59
minimum elong	10495 Oct 25 17:20		5°39'47	min. Earth dist.	10496 Oct 04 03:35	22° - 16'45	0.54612 AU
morning rise	10495 Nov 03 07:23	8°M34'13	3 37 41	morning rise	10496 Oct 12 21:50	18° ⊆ 37'52	0.54012710
direct	10495 Nov 06 10:22	8°M11'37		direct	10496 Oct 16 18:51	18° ⊆ 05'30	
morning max el	10495 Nov 17 18:47	13°ML33'03	20°57'29	morning max el	10496 Oct 29 12:55	24° £ 11'14	22°36'51
asc. node	10495 Nov 24 14:57	21°ML48'38	20 37 27	morning max cr	10496 Nov 03 18:38	0°M	22 3031
asc. node	10495 Nov 29 15:24	0° √		asc. node	10496 Nov 10 11:52	9°ML58'25	
morning set	10495 Dec 07 06:32	14° ₹ 155'55		morning set	10496 Nov 20 17:27	29°M43'26	
morning sec	10175 BCC 07 00.52	11 7 33 33		morning sec	10496 Nov 20 20:35	0° ₹ ¹	
superior conj	10495 Dec 14 15:19	0° ට 16'54	1°30'37		101901101 20 20.55	• •	
minimum elong	10495 Dec 14 17:19	0° る 27'10		superior conj	10496 Nov 27 17:53	14° ∡ ¹45'11	1°38'23
g	10495 Dec 14 12:02	0°ਤ	1 3000	minimum elong	10496 Nov 27 18:41	14° ×7 49'29	1°38'51
max. Earth dist.	10495 Dec 19 11:46	10° ට 02'27	1.35638 AU	max. Earth dist.	10496 Dec 01 03:53	21° х 56'08	1.33919 AU
evening rise	10495 Dec 23 11:47	17° ට 41'31			10496 Dec 05 03:39	0°ਰ	
desc. node	10495 Dec 28 08:32	26° ට 28'51		evening rise	10496 Dec 05 17:51	1° る 09'39	
	10495 Dec 30 09:29	0° ≈		desc. node	10496 Dec 14 05:34	16° පි 46'36	
	10496 Jan 19 15:18	0°) €			10496 Dec 22 09:21	0° ≈	
evening max el	10496 Jan 27 22:07	9°) 17′25	26°21'01	evening max el	10497 Jan 09 11:39	22° ≈ 54'34	27°08'21
retrograde	10496 Feb 09 18:55	16°) 34′12		Ü	10497 Jan 20 12:35	0°) €	
evening set	10496 Feb 16 01:34	14°) €02'35		retrograde	10497 Jan 22 21:16	0°) 17′05	
min. Earth dist.	10496 Feb 20 05:13	9°) 44'10	0.66681 AU		10497 Jan 25 03:50	30° R ≈	
asc. node	10496 Feb 20 13:45	9° 升 18′26		evening set	10497 Jan 29 13:53	27° ≈ 43'21	
inferior conj				evening set	107/ Juli 2/ 13.33	Z/ ≈ 43Z1	
	10496 Feb 21 22:46	7°) €37'36	0°26'50	min. Earth dist.	10497 Feb 02 12:15	27 ≈43 21 23°≈58'26	0.65253 AU
minimum elong	10496 Feb 21 22:46 10496 Feb 21 22:04	7° 光 37'36 7° 光 39'44	0°26'50 0°26'48	•			
minimum elong morning rise				min. Earth dist.	10497 Feb 02 12:15	23°≈58'26 21°≈29'26	
_	10496 Feb 21 22:04	7° ₩ 39'44		min. Earth dist. inferior conj	10497 Feb 02 12:15 10497 Feb 04 17:30	23°≈58'26 21°≈29'26	-0°34'18
morning rise	10496 Feb 21 22:04 10496 Feb 27 19:24	7°) 39'44 1°) 53'09		min. Earth dist. inferior conj minimum elong	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30	23°≈58'26 21°≈29'26 21°≈26'38	-0°34'18
morning rise direct	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10	7°¥39'44 1°¥53'09 0°¥59'50 4°¥31'33 28°¥26'42	0°26'48	min. Earth dist. inferior conj minimum elong asc. node	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13	-0°34'18
morning rise direct morning max el	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50	7°¥39'44 1°¥53'09 0°¥59'50 4°¥31'33	0°26'48	min. Earth dist. inferior conj minimum elong asc. node morning rise	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20	-0°34'18
morning rise direct morning max el	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01	7°¥39'44 1°¥53'09 0°¥59'50 4°¥31'33 28°¥26'42	0°26'48	min. Earth dist. inferior conj minimum elong asc. node morning rise direct	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0°¥	-0°34'18 0°33'32
morning rise direct morning max el desc. node morning set	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44	7° X 39'44 1° X 53'09 0° X 59'50 4° X 31'33 28° X 26'42 0° Υ 4° Υ 24'20	0°26'48 18°32'01	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° € 15° € 24'34	-0°34'18 0°33'32
morning rise direct morning max el desc. node morning set superior conj	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44	7°\cdot\39'44 1°\cdot\53'09 0°\cdot\59'50 4°\cdot\31'33 28°\cdot\26'42 0°\cappa 4°\cdot\24'20 29°\cappa\34'55	0°26'48 18°32'01 -1°56'43	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° ¥ 15° ¥24'34 18° ¥50'56	-0°34'18 0°33'32
morning rise direct morning max el desc. node morning set	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 13 20:13	7°\cdot\39'44 1°\cdot\53'09 0°\cdot\59'50 4°\cdot\31'33 28°\cdot\26'42 0°\cappa 4°\cappa\24'20 29°\cappa\34'55 29°\cappa\1'48	0°26'48 18°32'01 -1°56'43 1°56'21	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° € 15° € 24'34	-0°34'18 0°33'32
morning rise direct morning max el desc. node morning set superior conj	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 13 20:13 10496 Apr 14 01:31	7°\cdot\delta\39'44 1°\cdot\delta\31'33 28°\cdot\delta\26'42 0°\cdot\delta\42'20 29°\cdot\delta\31'55 29°\cdot\delta\32'32	0°26'48 18°32'01 -1°56'43	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° H 15° H 24'34 18° H 50'56 0° Y	-0°34'18 0°33'32 18°01'13
morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 11:06	7°\cdot\39'44 1°\cdot\53'09 0°\cdot\59'50 4°\cdot\31'33 28°\cdot\26'42 0°\cdot\40'\Cdot\20 29°\cdot\34'55 29°\cdot\01'48 29°\cdot\22'32 0°\cdot\3	0°26'48 18°32'01 -1°56'43 1°56'21	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 19 02:44	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° ¥ 15° ¥24'34 18° ¥50'56 0° Y	-0°34'18 0°33'32 18°01'13
morning rise direct morning max el desc. node morning set superior conj minimum elong	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 01:31 10496 Apr 14 11:06 10496 Apr 29 21:01	7°\cdot\delta\39'44 1°\cdot\delta\31'33 28°\cdot\delta\26'42 0°\cdot\delta\42'20 29°\cdot\delta\45'55 29°\cdot\delta\48 29°\cdot\delta\215'05	0°26'48 18°32'01 -1°56'43 1°56'21	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 19 02:44 10497 Mar 24 14:18 10497 Mar 24 05:29	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° H 15° H24'34 18° H50'56 0° Y 8° Y44'11 8° Y09'18	-0°34'18 0°33'32 18°01'13 -1°23'25 1°22'27
morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 01:31 10496 Apr 14 11:06 10496 Apr 29 21:01 10496 May 03 11:56	7°\cdot\delta\delt	0°26'48 18°32'01 -1°56'43 1°56'21 1.45627 AU	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 19 02:44 10497 Mar 24 14:18 10497 Mar 24 05:29 10497 Mar 27 21:38	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° H 15° H24'34 18° Y50'56 0° Y 8° Y44'11 8° Y09'18 13° Y56'34	-0°34'18 0°33'32 18°01'13
morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 11:06 10496 Apr 29 21:01 10496 May 03 11:56 10496 May 08 15:11	7°\mathref{H}39'44 1°\mathref{H}53'09 0°\mathref{H}59'50 4°\mathref{H}31'33 28°\mathref{H}26'42 0°\mathref{Y} 4°\mathref{Y}24'20 29°\mathref{Y}34'55 29°\mathref{Y}01'48 29°\mathref{Y}22'32 0°\mathref{H} 24°\mathref{H}15'05 0°IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	0°26'48 18°32'01 -1°56'43 1°56'21	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.	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 19 02:44 10497 Mar 24 14:18 10497 Mar 24 05:29 10497 Mar 27 21:38 10497 Apr 07 05:21	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° ₩ 15° ₩24'34 18° ₩50'56 0° Ψ 8° ₩44'11 8° ₩99'18 13° ₩56'34 0° ₩	-0°34'18 0°33'32 18°01'13 -1°23'25 1°22'27
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morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 11:06 10496 Apr 29 21:01 10496 May 03 11:56 10496 May 08 15:11 10496 May 18 11:48 10496 May 21 16:27 10496 May 28 08:39 10496 May 31 16:40 10496 Jun 06 06:21 10496 Jun 06 07:20 10496 Jun 08 01:29 10496 Jun 11 21:18 10496 Jun 18 07:10	7° \ 39'44 1° \ 53'09 0° \ 59'50 4° \ 31'33 28° \ 26'42 0° \ Y 4° \ Y24'20 29° \ Y34'55 29° \ Y01'48 29° \ Y22'32 0° \ 8° \ I06'52 22° \ I31'11 26° \ I10'32 29° \ I51'07 28° \ I47'11 23° \ I06'14 23° \ I03'10 20° \ I51'43 16° \ I45'43 14° \ I01'21	0°26'48 18°32'01 -1°56'43 1°56'21 1.45627 AU -0.8m 18°49'28 3°13'34 3°12'58	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 evening set inferior conj minimum elong	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 24 14:18 10497 Mar 24 05:29 10497 Mar 27 21:38 10497 Apr 07 05:21 10497 Apr 09 17:11 10497 Apr 23 06:27 10497 Apr 27 01:48 10497 May 04 23:18 10497 May 05 08:57 10497 May 15 23:00 10497 May 21 07:55 10497 May 21 07:55	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° ₩ 15° ₩24'34 18° ₩50'56 0° Ψ 8° Ψ44'11 8° Ψ09'18 13° Ψ56'34 0° ₩ 3° ₩50'55 24° ₩29'01 0° Ⅲ 9° Ⅲ52'24 10° Ⅲ16'20 14° Ⅲ01'04 12° Ⅲ41'26 6° Ⅲ45'54 6° Ⅲ46'32	-0°34'18 0°33'32 18°01'13 -1°23'25 1°22'27 1.45474 AU -0.7m 19°37'14
morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 11:06 10496 Apr 29 21:01 10496 May 03 11:56 10496 May 08 15:11 10496 May 18 11:48 10496 May 21 16:27 10496 May 28 08:39 10496 May 31 16:40 10496 Jun 06 06:21 10496 Jun 06 07:20 10496 Jun 08 01:29 10496 Jun 11 21:18 10496 Jun 18 07:10 10496 Jun 21 09:17	7°\\$39'44 1°\\$53'09 0°\\$59'50 4°\\$31'33 28°\\$26'42 0°\\$\forall^4\\$29°\\$24'20 29°\\$34'55 29°\\$01'48 29°\\$22'32 0°\\$24°\\$15'05 0°\\$\\$8°\\$106'52 22°\\$131'11 26°\\$\\$10'32 29°\\$51'07 28°\\$\\$47'11 23°\\$\\$06'14 23°\\$\\$03'10 20°\\$\\$15'43 16°\\$\\$45'43 14°\\$\\$101'21 14°\\$\\$34'03	0°26'48 18°32'01 -1°56'43 1°56'21 1.45627 AU -0.8m 18°49'28 3°13'34 3°12'58 0.65872 AU	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 evening set inferior conj minimum elong min. Earth dist.	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 19 02:44 10497 Mar 24 14:18 10497 Mar 27 21:38 10497 Apr 07 05:21 10497 Apr 09 17:11 10497 Apr 23 06:27 10497 Apr 23 06:27 10497 Apr 27 01:48 10497 May 04 23:18 10497 May 05 08:57 10497 May 15 03:00 10497 May 1 07:55 10497 May 21 07:55 10497 May 21 07:43 10497 May 22 12:07	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° ₩ 15° ₩24'34 18° ₩50'56 0° Ψ 8° Ψ44'11 8° Ψ09'18 13° Ψ56'34 0° ₩ 3° ₩50'55 24° ₩29'01 0° Ⅲ 9° Ⅲ52'24 10° Ⅲ16'20 14° Ⅲ01'04 12° Ⅲ41'26 6° Ⅲ45'54 6° Ⅲ46'32 5° Ⅲ12'18	-0°34'18 0°33'32 18°01'13 -1°23'25 1°22'27 1.45474 AU -0.7m 19°37'14
morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10496 Feb 21 22:04 10496 Feb 27 19:24 10496 Mar 01 21:10 10496 Mar 08 10:50 10496 Mar 25 09:01 10496 Mar 26 08:43 10496 Mar 29 03:44 10496 Apr 14 04:41 10496 Apr 14 01:31 10496 Apr 14 11:06 10496 Apr 29 21:01 10496 May 03 11:56 10496 May 08 15:11 10496 May 18 11:48 10496 May 21 16:27 10496 May 28 08:39 10496 May 31 16:40 10496 Jun 06 06:21 10496 Jun 06 07:20 10496 Jun 08 01:29 10496 Jun 11 21:18 10496 Jun 18 07:10	7° \ 39'44 1° \ 53'09 0° \ 59'50 4° \ 31'33 28° \ 26'42 0° \ Y 4° \ Y24'20 29° \ Y34'55 29° \ Y01'48 29° \ Y22'32 0° \ 8° \ I06'52 22° \ I31'11 26° \ I10'32 29° \ I51'07 28° \ I47'11 23° \ I06'14 23° \ I03'10 20° \ I51'43 16° \ I45'43 14° \ I01'21	0°26'48 18°32'01 -1°56'43 1°56'21 1.45627 AU -0.8m 18°49'28 3°13'34 3°12'58	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 evening set inferior conj minimum elong	10497 Feb 02 12:15 10497 Feb 04 17:30 10497 Feb 04 18:30 10497 Feb 06 10:56 10497 Feb 11 00:34 10497 Feb 13 17:06 10497 Feb 20 02:27 10497 Feb 28 15:02 10497 Mar 10 03:27 10497 Mar 12 05:48 10497 Mar 24 14:18 10497 Mar 24 05:29 10497 Mar 27 21:38 10497 Apr 07 05:21 10497 Apr 09 17:11 10497 Apr 23 06:27 10497 Apr 27 01:48 10497 May 04 23:18 10497 May 05 08:57 10497 May 15 23:00 10497 May 21 07:55 10497 May 21 07:55	23°≈58'26 21°≈29'26 21°≈26'38 19°≈36'13 15°≈57'20 15°≈18'42 18°≈40'19 0° ₩ 15° ₩24'34 18° ₩50'56 0° Ψ 8° Ψ44'11 8° Ψ09'18 13° Ψ56'34 0° ₩ 3° ₩50'55 24° ₩29'01 0° Ⅲ 9° Ⅲ52'24 10° Ⅲ16'20 14° Ⅲ01'04 12° Ⅲ41'26 6° Ⅲ45'54 6° Ⅲ46'32	-0°34'18 0°33'32 18°01'13 -1°23'25 1°22'27 1.45474 AU -0.7m 19°37'14

1' 4	10407 1 01 15 40	070 4 (154		: E 4 E 4	10400 M 06 04 17	100 40140	0.60142.411
direct	10497 Jun 01 15:49	27° 8 46'54		min. Earth dist.	10498 May 06 04:17	19° 8 48'48	0.68143 AU
	10497 Jun 07 20:57	0°II		morning rise	10498 May 10 18:23	14° 8 20'35	
desc. node	10497 Jun 08 06:17	0° Ⅱ 15'39	25026146	direct	10498 May 16 05:34	11° 8 55'18	
morning max el	10497 Jun 13 20:05	5° Ⅱ 04'43	25°26'46	desc. node	10498 May 26 03:13	17° 8 24'57	
	10497 Jul 02 23:55	0°©		morning max el	10498 May 27 05:40	_	23°59'32
morning set	10497 Jul 19 21:18	27° © 54'39			10498 Jun 05 21:47	Π °0	
	10497 Jul 21 00:51	0 $^{\circ}\Omega$			10498 Jun 26 02:11	0ಂಣ	
max. Earth dist.	10497 Jul 23 12:57	4° {\2 38'50	1.36172 AU	morning set	10498 Jul 01 16:20	9° 5 21'04	
		_		max. Earth dist.	10498 Jul 05 10:29	15° © 54'46	1.38376 AU
superior conj	10497 Jul 29 15:32	16° Ω 29'23					
minimum elong	10497 Jul 29 17:09	16° Ω 37′28	0°26'05	superior conj	10498 Jul 12 17:54	29° 5 21'11	
asc. node	10497 Aug 01 08:14	21° Ω 55′03		minimum elong	10498 Jul 12 21:51	29° © 39'57	0°59'04
	10497 Aug 05 07:12	0° m y			10498 Jul 13 02:03	0 $^{\circ}$ Ω	
evening rise	10497 Aug 06 17:11	2°順53'25		asc. node	10498 Jul 19 05:08	11° Ω 53'53	
	10497 Aug 22 16:05	0∘ ⊽		evening rise	10498 Jul 21 16:51	16° Ω 47'48	
evening max el	10497 Aug 24 06:17	1° ≙ 41'57	19°55'08		10498 Jul 28 15:57	0° m	
retrograde	10497 Sep 03 13:24	6° £ 48'38		evening max el	10498 Aug 07 01:43	13° Mp 26'46	18°57'52
desc. node	10497 Sep 04 04:39	6° ₽ 47'32		retrograde	10498 Aug 15 18:22	17° m 46'46	
evening set	10497 Sep 05 10:56	6° ₽ 39'00		evening set	10498 Aug 17 15:46	17° m 35'16	
inferior conj	10497 Sep 14 09:55	2° ₽ 38'22	-3°06'28	desc. node	10498 Aug 22 01:53	15° m 49'59	
minimum elong	10497 Sep 14 01:42	2° ♀ 50'51	3°03'35	inferior conj	10498 Aug 25 22:59	13° m) 18'49	-1°12'25
min. Earth dist.	10497 Sep 16 08:08	1° ≏ 28'12	0.55108 AU	minimum elong	10498 Aug 25 19:53	13° m 24'15	1°11'23
	10497 Sep 18 22:15	30°R, Mp		min. Earth dist.	10498 Aug 28 22:05	11° m)14'51	0.56460 AU
morning rise	10497 Sep 22 15:00	28° m 23'13		morning rise	10498 Sep 02 20:50	8° m 27'01	
direct	10497 Sep 27 07:09	27° m 35'33		direct	10498 Sep 08 08:01	7° Mp 16'18	
	10497 Oct 05 08:34	0∘ ⊽		morning max el	10498 Sep 22 13:31	14° m 35'13	26°02'51
morning max el	10497 Oct 11 00:29	4° £ 21'22	24°24'16		10498 Oct 04 20:48	0∘ ত	
asc. node	10497 Oct 28 08:45	28° ≏ 46'41		asc. node	10498 Oct 15 05:36	18° ≏ 03'40	
	10497 Oct 29 00:32	0° M .		morning set	10498 Oct 20 16:16	29° ₽ 13'31	
morning set	10497 Nov 05 05:14	14°M30'51			10498 Oct 21 00:57	0° M	
•							
superior conj	10497 Nov 12 01:38	29°M26'20	1°39'36	superior conj	10498 Oct 27 12:23	14°ML13'51	1°34'48
minimum elong	10497 Nov 12 01:16	29°M24'20	1°40'02	minimum elong	10498 Oct 27 11:02	14°ML06'24	1°35'02
	10497 Nov 12 07:48	0° ∡ ¹		max. Earth dist.	10498 Oct 28 10:26	16° M ₊15'59	1.31801 AU
max. Earth dist.	10497 Nov 14 04:06	4° ≯ 00′22	1.32628 AU	evening rise	10498 Nov 03 11:58	29°M22'37	
evening rise	10497 Nov 19 10:54	15° ₹ 05'53		•	10498 Nov 03 19:08	0° ∡ ″	
C	10497 Nov 27 05:28	8°0		desc. node	10498 Nov 17 23:43	26° ∡ 16'48	
desc. node	10497 Dec 01 02:37	6° る 45'13			10498 Nov 20 08:35	ರ°0	
	10497 Dec 17 06:04	0° ≈		evening max el	10498 Dec 05 07:50	18° る 46'57	27°20'49
evening max el	10497 Dec 22 23:40	6° ≈ 08'38	27°30'12	retrograde	10498 Dec 19 04:47	26° පි 01'50	
retrograde	10498 Jan 05 16:44	13° ≈ 29'14		evening set	10498 Dec 26 05:02	23° る 46'38	
evening set	10498 Jan 12 16:04	11° ≈ 00′21		min. Earth dist.	10498 Dec 29 22:14	20° る 57'16	0.61501 AU
min. Earth dist.	10498 Jan 16 10:24	7° ≈ 46′20	0.63502 AU	inferior conj	10499 Jan 01 23:23	18° ろ 14'04	-2°58'10
inferior conj	10498 Jan 19 02:45	5°≈04'09		minimum elong	10499 Jan 02 05:21	18° る 00'43	2°55'28
minimum elong	10498 Jan 19 06:05	4° ≈ 55'43	1°41'43	morning rise	10499 Jan 09 08:15	13° ප 16'02	
asc. node	10498 Jan 24 08:06	0° ≈ 34'42		asc. node	10499 Jan 11 05:13	12° ප් 56'11	
	10498 Jan 25 10:12	30°Rる		direct	10499 Jan 11 12:41	12° る 55'46	
morning rise	10498 Jan 25 22:11	29° る 47'29		morning max el	10499 Jan 18 12:23	16° る 27'21	17°52'06
direct	10498 Jan 28 07:26	29° る 19'50		5	10499 Jan 28 00:58	0° ≈	-
	10498 Jan 31 04:00	0° ≈		morning set	10499 Feb 03 04:34	10° ≈ 56'32	
morning max el	10498 Feb 03 20:01	2° ≈ 41'35	17°47'41	5 ·			
morning set	10498 Feb 20 05:49	27° ≈ 41'48		superior conj	10499 Feb 13 23:03	0°) €03'36	0°00'06
5 - 5 - 1	10498 Feb 21 13:56	0°) €		minimum elong	10499 Feb 13 23:06	0°) €03'47	
desc. node	10498 Feb 27 02:33	9°) €24'54		behind sun begin	10499 Feb 13 14:41	29° ≈ 27'32	
				behind sun end	10499 Feb 14 07:31	0°) 39′56	
superior conj	10498 Mar 04 18:12	18°)(48'11	-0°41'26	desc. node	10499 Feb 13 23:22	0°) €04'56	
minimum elong	10498 Mar 04 13:48	18°) € 30'10			10499 Feb 13 22:13	0° ∀	
max. Earth dist.	10498 Mar 10 16:30		1.44596 AU	max. Earth dist.	10499 Feb 21 07:26	12° ¥ 22'41	1.43094 AU
	10498 Mar 11 17:05	0°Υ		evening rise	10499 Feb 27 22:40	22° H 59'36	
evening rise	10498 Mar 20 04:36	13° Υ 13'10		<i>5</i> - <i>7</i>	10499 Mar 04 11:19	0°Υ	
5	10498 Mar 31 07:41	0°8			10499 Mar 25 12:21	0°8	
evening max el	10498 Apr 18 00:31	23° 8 35'12	20°39'30	evening max el	10499 Mar 31 20:16	7° 8 18'48	21°52'54
asc. node	10498 Apr 22 06:07	27° 8 05'20		asc. node	10499 Apr 09 03:19	12° 8 42'59	×= + •
retrograde	10498 Apr 26 05:04	28° 8 21'33		retrograde	10499 Apr 10 03:02	12° 8 47'46	
evening set	10498 Apr 30 07:14	26° 8 46'06		evening set	10499 Apr 14 15:36	10° 8 57'01	
inferior conj	10498 May 05 14:05	20° 8 37'45	3°09'52	inferior conj	10499 Apr 19 22:41	4° 8 38'08	2°51'11
minimum elong	10498 May 05 12:55	20° 8 41'47		minimum elong	10499 Apr 19 20:50	4° 8 44'38	
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· P d P ·	10400 4 10 22 55	40 4 2 2 1 5 2	0.60500 444	,	10500 4 04 05 26	1000051115	2022102
min. Earth dist.	10499 Apr 19 23:55	_	0.68589 AU	minimum elong	10500 Apr 04 05:36	18° Υ 51'15	
	10499 Apr 23 12:08	30°RƳ		min. Earth dist.	10500 Apr 03 20:46	19° Y 21'44	0.68588 AU
morning rise	10499 Apr 25 01:53	28° Υ 25'32 26° Υ 19'09		morning rise	10500 Apr 09 12:33	12° Υ 37'00 10° Υ 52'00	
direct	10499 Apr 29 23:38			direct	10500 Apr 13 20:54	10°γ52'00 15° γ 45'10	21006115
	10499 May 07 12:24	0°8 2°802'44	2292015.4	morning max el	10500 Apr 22 08:36	24° Υ 38'18	21°06'15
morning max el desc. node	10499 May 09 16:46 10499 May 13 00:08	5° 8 38'21	22°29'54	desc. node	10500 Apr 29 20:59	0° 8	
desc. node	10499 May 13 00:08 10499 May 30 20:42	0°Π		morning set	10500 May 03 19:43 10500 May 23 02:38	28° 8 46'45	
morning set	10499 May 30 20.42 10499 Jun 12 10:34	19° ∏ 39'01		morning set	10500 May 23 02:38 10500 May 23 21:17	28 O 40 43	
morning set max. Earth dist.	10499 Jun 17 08:25	27° ∏ 48'39	1.40658 AU	max. Earth dist.	10500 May 25 21:17 10500 May 30 11:59		1.42741 AU
max. Earth dist.	10499 Jun 18 15:18	27 п 46 39	1.40038 AU	max. Earth dist.	10300 May 30 11.39	10 дзэзэ	1.42/41 AU
	10499 Juli 18 13.18	0 3		superior conj	10500 Jun 06 16:16	22° ∏ 33'13	-1°57'40
superior conj	10499 Jun 25 03:38	11° © 25'35	-1°31'20	minimum elong	10500 Jun 06 22:22	22° I 59'12	
minimum elong	10499 Jun 25 09:37	11°952'30		minimum clong	10500 Jun 10 23:51	0°95	1 37 43
evening rise	10499 Jul 05 06:52	0°Ω12'41	1 31 03	evening rise	10500 Jun 18 07:01	12° 9 57'57	
e vennig rise	10499 Jul 05 04:10	0°Ω		asc. node	10500 Jun 22 23:02	21° © 17'52	
asc. node	10499 Jul 06 02:03	1° Ω 42'57		use. noue	10500 Jun 28 02:37	0°Ω	
evening max el	10499 Jul 21 07:13	25°Ω52'43	18°21'41	evening max el	10500 Jul 04 18:47	8°Ω50'32	18°05'29
retrograde	10499 Jul 28 18:12	29°Ω37'41	10 21 11	retrograde	10500 Jul 11 11:20	12°Ω15'36	10 03 29
evening set	10499 Jul 30 21:52	29°Ω19'43		evening set	10500 Jul 13 22:56	11°Ω47'28	
inferior conj	10499 Aug 07 09:43	24° Ω 43'20	0°28'13	inferior conj	10500 Jul 20 17:01	6°Ω50'53	1°44'00
minimum elong	10499 Aug 07 10:42	24°Ω41'20	0°27'31	minimum elong	10500 Jul 20 19:41	6°Ω44'32	1°42'44
desc. node	10499 Aug 08 23:07	23°Ω26'05	0 27 31	min. Earth dist.	10500 Jul 23 22:14	3°Ω48'35	0.60683 AU
min. Earth dist.	10499 Aug 10 18:16	21° Ω 59'12	0.58428 AU	desc. node	10500 Jul 26 20:20	1° Ω 25'46	0.00003710
morning rise	10499 Aug 14 20:01	19° Ω 15'34	0.50.20110	morning rise	10500 Jul 27 13:41	0°Ω56'22	
direct	10499 Aug 20 23:40	17°Ω35'34		morning rise	10500 Jul 29 05:16	30°R95	
morning max el	10499 Sep 04 08:39	25° Ω 18'34	27°15'53	direct	10500 Aug 03 03:49	28°947'34	
morning man er	10499 Sep 08 17:08	0° m)	2, 1003		10500 Aug 08 08:25	0°Ω	
	10499 Sep 28 04:24	0∘ ⊽		morning max el	10500 Aug 17 10:41	6° Ω 44'51	27°53'00
asc. node	10499 Oct 02 02:26	7° £ 40'52			10500 Sep 04 00:21	0° m)	_,
morning set	10499 Oct 05 00:49	13° Ω 45'39		asc. node	10500 Sep 18 23:16	27° mp 32'21	
morning sec	10.55 000 00.15	15 — 10 0 /		morning set	10500 Sep 19 05:04	28° m 02'24	
superior conj	10499 Oct 12 00:09	29° Ω 00'46	1°24'22		10500 Sep 20 03:35	0ಂ ರ	
minimum elong	10499 Oct 11 22:09	28° Ω 49'37		max. Earth dist.	10500 Sep 25 04:05	10° Ω 50'15	1.31606 AU
max. Earth dist.	10499 Oct 11 19:38		1.31457 AU		r		
	10499 Oct 12 10:47	0°M		superior conj	10500 Sep 26 11:09	13° ≏ 41'44	1°08'35
evening rise	10499 Oct 18 18:33	13°M52'16		minimum elong	10500 Sep 26 08:54	13° ≏ 29'19	1°08'19
Č	10499 Oct 26 20:00	0°⊀		evening rise	10500 Oct 03 04:33	28° ≏ 29'07	
desc. node	10499 Nov 04 20:52	15° ₹ 09'49		C	10500 Oct 03 21:32	0° M	
	10499 Nov 16 17:52	8°0			10500 Oct 20 11:31	0° ∡ 7	
evening max el	10499 Nov 17 09:38	0° る 37'54	26°37'22	desc. node	10500 Oct 22 18:05	3° ∡ 09'14	
retrograde	10499 Dec 01 08:06	7° る 45'28		evening max el	10500 Oct 30 03:27	11° ∡ ³37'44	25°22'20
evening set	10499 Dec 08 00:42	5°る54'00		retrograde	10500 Nov 13 00:34	18° ∡ ³36'44	
min. Earth dist.	10499 Dec 11 23:34	3° る 17'51	0.59382 AU	evening set	10500 Nov 18 22:18	17° ∡ °17′03	
inferior conj	10499 Dec 15 03:53	0° る 49'09	-4°12'20	min. Earth dist.	10500 Nov 23 15:39	14° ∡ ³37'52	0.57363 AU
minimum elong	10499 Dec 15 11:44	0° る 33'48	4°09'30	inferior conj	10500 Nov 26 13:03	12° ∡ 740′26	-5°14'11
	10499 Dec 16 05:15	30°R. ✓		minimum elong	10500 Nov 26 19:57	12° ∡ °28'41	5°12'29
morning rise	10499 Dec 23 01:27	26° ⊀ 12'21		morning rise	10500 Dec 04 19:55	8° ∡ ¹25'54	
direct	10499 Dec 25 04:39	25° ₹ 56′00		direct	10500 Dec 07 03:26	8° ₰ 09'55	
asc. node	10499 Dec 29 02:20	26° ₹ 53'45		asc. node	10500 Dec 15 23:24	12° ∡ °21′27	
morning max el	10500 Jan 01 23:54	29° ∡ ¹46'51	18°15'50	morning max el	10500 Dec 16 02:41	12° ∡ ²29′19	19°00'46
	10500 Jan 02 05:13	0°る			10500 Dec 27 22:43	0°ප	
morning set	10500 Jan 17 17:46	24° る 50'36		morning set	10501 Jan 01 16:52	9° ප 11'00	
	10500 Jan 20 11:04	0° ≈					
				superior conj	10501 Jan 10 01:47	25° る 35'50	1°03'24
superior conj	10500 Jan 27 03:08	12° ≈ 23'50	0°35'44	minimum elong	10501 Jan 10 04:54	25° る 50'41	1°03'28
minimum elong	10500 Jan 27 05:37	12° ≈ 35′08	0°35'45		10501 Jan 12 09:33	0° ≈	
desc. node	10500 Jan 31 20:10	20° ≈ 46′52		max. Earth dist.	10501 Jan 16 23:50	8° ≈ 24'56	1.38956 AU
max. Earth dist.	10500 Feb 03 17:18	25° ≈ 44'17	1.41137 AU	desc. node	10501 Jan 18 17:02	11° ≈ 27′24	
	10500 Feb 06 06:10	0°) €		evening rise	10501 Jan 20 19:59	15° ≈ 08'33	
evening rise	10500 Feb 08 10:33	3°) ₹35'38			10501 Jan 29 21:37	0° ∀	
	10500 Feb 25 18:20	0° Υ			10501 Feb 20 13:05	0° Υ	
evening max el	10500 Mar 14 12:03	21° Y ′04'47	23°12'38	evening max el	10501 Feb 25 01:54	4° Y 53'53	24°32'23
retrograde	10500 Mar 24 22:36	27° Ƴ 14'59		retrograde	10501 Mar 08 14:27	11° Y '37'56	
asc. node	10500 Mar 27 00:33	26° Ƴ 54'10		asc. node	10501 Mar 13 21:48	9° Y 29'56	
evening set	10500 Mar 29 22:33	25° Y 09'54		evening set	10501 Mar 14 02:30	9° Y 20'06	
inferior conj	10500 Apr 04 07:46	18° Ƴ 43'43	2°22'45	min. Earth dist.	10501 Mar 18 16:32	4° Y 07'07	0.68166 AU

inferior conj	10501 Mar 19 15:26	2° Y 50'35	1°45'00	minimum elong	10502 Mar 03 18:24	16° ¥ 59'54	0°57'42
minimum elong	10501 Mar 19 13:23	2° Υ 57'27	1°44'20	morning rise	10502 Mar 09 11:27	11° X 05'15	0 37 42
minimum ciong	10501 Mar 21 20:18	30° R ₩	1 4420	direct	10502 Mar 12 19:24	10°) 01'44	
morning rise	10501 Mar 25 00:24	26° ¥ 51'15		morning max el	10502 Mar 19 14:47	13°) 43'59	18°57'28
direct	10501 Mar 28 20:01	25° H 27'49		morning max or	10502 Mar 31 20:46	0°Υ	10 07 20
morning max el	10501 Apr 05 07:46		19°54'21	greatest brilliancy	10502 Apr 02 08:29	2° Υ 15'12	-0.8m
morning man vi	10501 Apr 05 16:05	0°Υ	1, 0.21	desc. node	10502 Apr 03 14:34	4° Υ 09'59	0.011
desc. node	10501 Apr 16 17:47	14° Ƴ 11'43		morning set	10502 Apr 11 08:00	16° Y 06'18	
	10501 Apr 27 08:51	0°8			10502 Apr 20 06:20	0°8	
morning set	10501 May 02 02:16	7° 8 13'49		max. Earth dist.	10502 Apr 25 15:51	8° 8 26'19	1.45379 AU
max. Earth dist.	10501 May 12 23:01	24° 8 12'58	1.44376 AU			. C	
	10501 May 16 13:41	0°II		superior conj	10502 Apr 27 19:27	11° 8 49'03	-2°08'14
	,			minimum elong	10502 Apr 27 14:16	11° 8 28'41	
superior conj	10501 May 18 04:38	2° I 37'31	-2°12'04	Č	10502 May 09 05:19	0°II	
minimum elong	10501 May 18 06:47	2° Ⅱ 46′18	2°12'28	evening rise	10502 May 12 18:50	5° Ⅱ 46′18	
evening rise	10501 May 31 12:24	24° Ⅱ 51'34		asc. node	10502 May 27 17:10	29° Ⅱ 19'27	
	10501 Jun 03 12:42	0ංම			10502 May 28 04:47	0ංම	
asc. node	10501 Jun 09 20:05	10° © 32'21		evening max el	10502 Jun 01 21:28	5° © 41'16	18°29'19
evening max el	10501 Jun 18 08:35	22° © 09'20	18°08'16	retrograde	10502 Jun 08 08:33	9° © 10'54	
retrograde	10501 Jun 24 17:33	25°529'42		evening set	10502 Jun 11 11:55	8°915'37	
evening set	10501 Jun 27 13:04	24° © 48'45		inferior conj	10502 Jun 17 05:44	2° © 43'17	3°04'27
inferior conj	10501 Jul 03 17:03	19° © 33'23	2°34'49	minimum elong	10502 Jun 17 07:24	2° © 38'19	3°03'42
minimum elong	10501 Jul 03 19:38	19° © 26'22	2°33'43	min. Earth dist.	10502 Jun 19 09:25	0°ഇ09'26	0.64895 AU
min. Earth dist.	10501 Jul 06 11:09	16° © 35'59	0.62913 AU		10502 Jun 19 12:41	30° Ŗ Ⅱ	
morning rise	10501 Jul 10 00:28	13° © 22'29		morning rise	10502 Jun 23 01:55	26° Ⅲ 24'22	
desc. node	10501 Jul 13 17:30	11° © 21'24		direct	10502 Jun 29 15:48	23° Ⅱ 42'04	
direct	10501 Jul 16 17:42	10°951'49		desc. node	10502 Jun 30 14:37	23° Ⅱ 45′08	
morning max el	10501 Jul 30 18:07	18° © 54'10	27°51'45		10502 Jul 11 11:48	0°ಅ	
C	10501 Aug 09 03:15	$0^{\circ}\Omega$		morning max el	10502 Jul 13 04:32	1° © 38'57	27°15'39
	10501 Aug 27 22:25	0° m)		-	10502 Aug 03 07:20	$0^{\circ}\Omega$	
morning set	10501 Sep 03 02:51	11° m 57'38		morning set	10502 Aug 17 15:31	25° Ω 24'35	
asc. node	10501 Sep 05 20:06	17° m 32'37			10502 Aug 19 23:21	0° m y	
max. Earth dist.	10501 Sep 08 08:03	22° m 49'39	1.32252 AU	max. Earth dist.	10502 Aug 22 03:51	4° m 25'58	1.33398 AU
				asc. node	10502 Aug 23 16:55	7° m ,37'33	
superior conj	10501 Sep 10 19:28	28° m) 10'37	0°47'43				
superior conj							
minimum elong	10501 Sep 10 17:30	27° m 59'54	0°47'17	superior conj	10502 Aug 25 23:00	12° m 21'45	0°22'08
1 3			0°47'17	superior conj minimum elong	10502 Aug 25 23:00 10502 Aug 25 21:55	12° Mp 21'45 12° Mp 15'59	0°22'08 0°21'43
1 3	10501 Sep 10 17:30	27° m 59'54	0°47'17	1 3	•	~	
minimum elong	10501 Sep 10 17:30 10501 Sep 11 15:31	27° ₱ 59'54 0° <u>₽</u>	0°47'17	minimum elong	10502 Aug 25 21:55	12° m 15'59	
minimum elong	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00	27° № 59'54 0° <u>Ω</u> 13° <u>Ω</u> 07'09	0°47'17	minimum elong	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57	12° m 15'59 27° m 40'57	
minimum elong evening rise	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02	27° № 59'54 0° Ω 13° Ω 07'09 0° M		minimum elong	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24	12° m 15'59 27° m 40'57 0° Ω	0°21'43
minimum elong evening rise desc. node	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19	27° m 59'54 0° Ω 13° Ω07'09 0° M 19° M 54'25		minimum elong evening rise	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57	12° m 15'59 27° m 40'57 0° Ω 0° M	0°21'43
minimum elong evening rise desc. node evening max el retrograde evening set	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54	27° m 59'54 0° Ω 13° Ω 07'09 0° m 19° m 54'25 21° m 56'27	23°46'22	minimum elong evening rise evening max el desc. node retrograde	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13	12° m 15'59 27° m 40'57 0° Ω 0° M 2° M 04'11	0°21'43
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18	23°46'22 0.55721 AU	minimum elong evening rise evening max el desc. node retrograde evening set	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35	12° m 15'59 27° m 40'57 0° Ω 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12	0°21'43 22°06'20
minimum elong evening rise desc. node evening max el retrograde evening set	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Oct 29 19:26	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 42'39	23°46'22 0.55721 AU	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42	12° m 15'59 27° m 40'57 0° n 0° m 2° m 04'11 4° m 58'33 8° m 24'23	0°21'43 22°06'20
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Oct 29 19:26 10501 Nov 05 01:13	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 42'39 23° m 40'57	23°46'22 0.55721 AU	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 15:36	12° m 15'59 27° m 40'57 0° \(\Oldsymbol{\Omega}\) 0° \(\Oldsymbol{\Omega}\) 2° \(\Oldsymbol{\Omega}\) 4° \(\Oldsymbol{\Omega}\) 12'34	0°21'43 22°06'20 -5°24'30
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Oct 29 19:26 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 15 12:23	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m. 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 42'39 23° m 40'57 19° m 47'41	23°46'22 0.55721 AU -5°44'59	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22	12° m 15'59 27° m 40'57 0° <u>a</u> 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 12'43	0°21'43 22°06'20 -5°24'30
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 29 19:26 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 15 12:23 10501 Nov 18 06:53	27° m 59'54 0° \(\Omega\) 13° \(\Omega\) 0° \(\mathbb{M}\) 19° \(\mathbb{M}\) 54'25 21° \(\mathbb{M}\) 56'27 28° \(\mathbb{M}\) 42'43 27° \(\mathbb{M}\) 55'59 24° \(\mathbb{M}\) 55'18 23° \(\mathbb{M}\) 42'39 23° \(\mathbb{M}\) 42'39 19° \(\mathbb{M}\) 42'41 19° \(\mathbb{M}\) 28'27	23°46'22 0.55721 AU -5°44'59 5°44'34	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15	12° m 15'59 27° m 40'57 0° <u>a</u> 0° m. 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49	0°21'43 22°06'20 -5°24'30 5°23'13
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	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 29 19:26 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 15 12:23 10501 Nov 18 06:53 10501 Nov 28 17:14	27° m 59'54 0° \(\Omega\) 13° \(\Omega\) 0° \(\mathbb{M}\) 19° \(\mathbb{M}\) 54'25 21° \(\mathbb{M}\) 56'27 28° \(\mathbb{M}\) 42'43 27° \(\mathbb{M}\) 55'59 24° \(\mathbb{M}\) 55'18 23° \(\mathbb{M}\) 42'39 23° \(\mathbb{M}\) 44'57 19° \(\mathbb{M}\) 28'27 24° \(\mathbb{M}\) 22'50	23°46'22 0.55721 AU -5°44'59	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 08:22 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21	12° m 15'59 27° m 40'57 0° \(\Omega\) 0° m 2° m 04'11 4° m 58'33 8° m 22'12 4° m 02'51 4° m 12'34 4° m 12'44 0° m 15'49 30° R \(\Omega\)	0°21'43 22°06'20 -5°24'30 5°23'13
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25	27° m 59'54 0° \(\Omega\) 13° \(\Omega\) 0° \(\Omega\) 19° \(\Omega\) 19° \(\Omega\) 21° \(\Omega\) 24° \(\Omega\) 23° \(\Omega\) 23° \(\Omega\) 19° \(\Omega\) 24' \(\Omega\)	23°46'22 0.55721 AU -5°44'59 5°44'34	evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 08:22 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 29 18:37	12° m 15'59 27° m 40'57 0° \(\Oldsymbol{\Omega}\) 0° m \(2^\) m 04'11 4° m 58'33 8° m 02'12 4° m 02'51 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° \(\Oldsymbol{\Omega}\) 29° \(\Oldsymbol{\Omega}\)	0°21'43 22°06'20 -5°24'30 5°23'13
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	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m. 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x '	23°46'22 0.55721 AU -5°44'59 5°44'34	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 29 18:37 10502 Oct 31 21:00	12° m 15'59 27° m 40'57 0° \(\Omega\) 0° m \(2^\) m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R \(\Omega\) 29° \(\Omega\) 49'43 0° m \(\Omega\)	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 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	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 15 12:23 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m. 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x 23° x 48'09	23°46'22 0.55721 AU -5°44'59 5°44'34	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 22:31 10502 Oct 17 08:22 10502 Oct 27 15:21 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 29 18:37 10502 Oct 31 21:00 10502 Nov 10 18:13	12° m 15'59 27° m 40'57 0° a 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R a 29° a 49'43 0° m 5° m 29'25	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 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	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m. 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x '	23°46'22 0.55721 AU -5°44'59 5°44'34	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 07 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 29 18:37 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 19 17:22	12° m 15'59 27° m 40'57 0° a 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R a 29° a 49'43 0° m 5° m 29'25 16° m 46'46	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 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	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Oct 29 19:26 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 17 02:57 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33 10501 Dec 19 23:03	27° m 59'54 0° <u>a</u> 13° <u>a</u> 07'09 0° m. 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x 23° x 48'09 0° s 3	23°46'22 0.55721 AU -5°44'59 5°44'34 20°08'31	minimum elong 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	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 17 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 27 15:21 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 19 17:22 10502 Nov 27 03:21	12° m 15'59 27° m 40'57 0° a 0° m 2° m 04'11 4° m 58'33 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R a 29° a 49'43 0° m 5° m 29'25 16° m 46'46 0° \$\frac{x}{2}\$	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 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	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 15 12:23 10501 Nov 18 06:53 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33 10501 Dec 19 23:03	27° m 59'54 0° n 13° n07'09 0° m 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x 23° x 48'09 0° 5 26'49	23°46'22 0.55721 AU -5°44'59 5°44'34 20°08'31	minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 07 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 29 18:37 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 19 17:22	12° m 15'59 27° m 40'57 0° a 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R a 29° a 49'43 0° m 5° m 29'25 16° m 46'46	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 AU
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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 retrograde	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 07 02:57 10501 Nov 15 12:23 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33 10501 Dec 16 22:33 10501 Dec 24 14:21 10501 Dec 24 16:56 10501 Dec 24 16:56 10501 Dec 30 06:54 10502 Jan 03 01:34 10502 Jan 04 10:08 10502 Jan 05 13:57 10502 Jan 23 07:09 10502 Feb 07 15:19 10502 Feb 07 15:19	27° m 59'54 0° Ω 13° Ω07'09 0° M. 19° M.54'25 21° M.56'27 28° M.42'43 27° M.55'59 24° M.55'18 23° M.40'57 19° M.24'50 29° M.04'33 0° ₹ 23° ₹ 48'09 0° ₹ 23° ₹ 48'09 0° ₹ 23° ₹ 48'09 0° ₹ 25° ₹ 33'45 0° ₹ 2° ₹ 33'45 0° ₹ 2° ₹ 33'45 0° ₹ 18° ₹ 43'51 25° ₹ 51'30	23°46'22 0.55721 AU -5°44'59 5°44'34 20°08'31 1°22'53 1°23'09 1.36789 AU	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	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 09 00:27 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 29 18:37 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 27 03:21 10502 Dec 01 08:08 10502 Dec 01 13:34 10502 Dec 12 18:37 10502 Dec 12 18:37 10502 Dec 12 18:37 10502 Dec 13 12:00	12° m 15'59 27° m 40'57 0° Ω 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R Ω 29° Ω 49'43 0° m 5° m 29'25 16° m 46'46 0° ⊀ 8° ⊀ 33'42 23° ⊀ 44'24 23° ⊀ 52'16 0° ♂ 2° ♂ 26'46 10° ♂ 41'25 22° ♂ 28'30 0° ≈	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 AU 21°38'01 1°34'45 1°35'11
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 retrograde evening set	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Oct 29 19:26 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 15 12:23 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33 10501 Dec 19 23:03 10501 Dec 24 14:21 10501 Dec 24 16:56 10501 Dec 30 06:54 10502 Jan 03 01:34 10502 Jan 03 01:34 10502 Jan 03 01:357 10502 Jan 23 07:09 10502 Feb 07 15:19 10502 Feb 20 01:38 10501 Feb 26 01:52	27° m 59'54 0° n 13° n07'09 0° m 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x 23° x 48'09 0° 5 9° 526'49 9° 539'44 20° 533'45 0° ≈ 2° ≈02'58 0° H 18° H 43'51 25° H 51'30 23° H 23'35	23°46'22 0.55721 AU -5°44'59 5°44'34 20°08'31 1°22'53 1°23'09 1.36789 AU	minimum elong 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 desc. node	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 07 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 27 15:21 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 27 03:21 10502 Dec 01 08:08 10502 Dec 08 12:45 10502 Dec 08 14:16 10502 Dec 11 13:34 10502 Dec 12 18:37 10502 Dec 12 18:37 10502 Dec 13 13:44 10502 Dec 23 10:54 10502 Dec 27 21:52 10503 Jan 18 18:40	12° m 15'59 27° m 40'57 0° n 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R n 29° n 49'43 0° m 5° m 29'25 16° m 46'46 0° 8° ₹ 33'42 23° ₹ 44'24 23° ₹ 52'16 0° ₹ 2° ₹ 26'46 10° ₹ 41'25 22° ₹ 28'30 0° ≈ 0° ★	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 AU 21°38'01 1°34'45 1°35'11 1.34855 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 retrograde evening set asc. node	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 15 12:23 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33 10501 Dec 16 22:33 10501 Dec 19 23:03 10501 Dec 24 14:21 10501 Dec 24 16:56 10501 Dec 24 16:56 10501 Dec 30 06:54 10502 Jan 03 01:34 10502 Jan 04 10:08 10502 Jan 05 13:57 10502 Jan 23 07:09 10502 Feb 07 15:19 10502 Feb 20 01:38 10502 Feb 26 01:52 10502 Feb 26 01:52	27° m 59'54 0° n 13° n07'09 0° m 19° m.54'25 21° m.56'27 28° m.42'43 27° m.55'59 24° m.55'18 23° m.42'39 23° m.40'57 19° m.47'41 19° m.28'27 24° m.24'50 29° m.04'33 0° x 23° x 48'09 0° 33'48 20° 33'48 27° 33'45 0° ≈ 2° ≈02'58 0° H 18° H.43'51 25° H.51'30 23° H.40'09	23°46'22 0.55721 AU -5°44'59 5°44'34 20°08'31 1°22'53 1°23'09 1.36789 AU 25°45'08	minimum elong 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 desc. node	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 07 22:31 10502 Oct 17 22:31 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 27 15:21 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 27 03:21 10502 Dec 01 08:08 10502 Dec 08 12:45 10502 Dec 08 14:16 10502 Dec 11 13:34 10502 Dec 12 18:37 10502 Dec 13 13:44 10502 Dec 23 10:54 10502 Dec 27 21:52 10503 Jan 18 18:40 10503 Jan 21 04:41	12° m 15'59 27° m 40'57 0° a 0° m 2° m 04'11 4° m 58'33 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R a 29° a 49'43 0° m 5° m 29'25 16° m 46'46 0° \$\frac{1}{8}\text{8}\text{33}'42 23° \$\frac{1}{8}\text{44'24} 23° \$\frac{1}{8}\text{52'16} 0° \frac{1}{8}\text{2}\text{23'} 22° \frac{1}{8}\text{26'46} 10° \frac{1}{8}\text{12'5} 22° \frac{1}{8}\text{28'30} 0° \text{8} 0° \frac{1}{8}\text{27'20}	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 AU 21°38'01 1°34'45 1°35'11 1.34855 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 retrograde evening set	10501 Sep 10 17:30 10501 Sep 11 15:31 10501 Sep 17 16:00 10501 Sep 26 02:02 10501 Oct 09 15:19 10501 Oct 11 14:54 10501 Oct 25 04:19 10501 Oct 29 19:26 10501 Nov 05 01:13 10501 Nov 07 01:49 10501 Nov 15 12:23 10501 Nov 18 06:53 10501 Nov 28 17:14 10501 Dec 02 20:25 10501 Dec 03 13:05 10501 Dec 16 22:33 10501 Dec 19 23:03 10501 Dec 24 14:21 10501 Dec 24 16:56 10501 Dec 30 06:54 10502 Jan 03 01:34 10502 Jan 03 01:34 10502 Jan 03 01:357 10502 Jan 23 07:09 10502 Feb 07 15:19 10502 Feb 20 01:38 10501 Feb 26 01:52	27° m 59'54 0° n 13° n07'09 0° m 19° m 54'25 21° m 56'27 28° m 42'43 27° m 55'59 24° m 55'18 23° m 40'57 19° m 47'41 19° m 28'27 24° m 24'50 29° m 04'33 0° x 23° x 48'09 0° 5 9° 526'49 9° 539'44 20° 533'45 0° ≈ 2° ≈02'58 0° H 18° H 43'51 25° H 51'30 23° H 23'35	23°46'22 0.55721 AU -5°44'59 5°44'34 20°08'31 1°22'53 1°23'09 1.36789 AU	minimum elong 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 desc. node	10502 Aug 25 21:55 10502 Sep 02 03:00 10502 Sep 03 05:24 10502 Sep 21 03:57 10502 Sep 23 03:13 10502 Sep 26 12:35 10502 Oct 05 20:42 10502 Oct 07 22:31 10502 Oct 17 15:36 10502 Oct 17 08:22 10502 Oct 26 08:15 10502 Oct 27 15:21 10502 Oct 27 15:21 10502 Oct 31 21:00 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 10 18:13 10502 Nov 27 03:21 10502 Dec 01 08:08 10502 Dec 08 12:45 10502 Dec 08 14:16 10502 Dec 11 13:34 10502 Dec 12 18:37 10502 Dec 12 18:37 10502 Dec 13 13:44 10502 Dec 23 10:54 10502 Dec 27 21:52 10503 Jan 18 18:40	12° m 15'59 27° m 40'57 0° n 0° m 2° m 04'11 4° m 58'33 8° m 24'23 8° m 02'12 4° m 02'51 4° m 12'34 4° m 22'43 0° m 15'49 30° R n 29° n 49'43 0° m 5° m 29'25 16° m 46'46 0° 8° ₹ 33'42 23° ₹ 44'24 23° ₹ 52'16 0° ₹ 2° ₹ 26'46 10° ₹ 41'25 22° ₹ 28'30 0° ≈ 0° ★	0°21'43 22°06'20 -5°24'30 5°23'13 0.54760 AU 21°38'01 1°34'45 1°35'11 1.34855 AU

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min. Earth dist.	10503 Feb 13 19:59	3° ¥ 10′36	0.66119 AU	desc. node	10503 Dec 10 07:56	12° る 38'49	
inferior conj	10503 Feb 15 18:39	0°) 53′15	0°01'59		10503 Dec 21 11:02	0° ≈	
minimum elong	10503 Feb 15 18:35	0°) 53′26	0°02'14	evening max el	10504 Jan 03 17:35	15° ≈ 55'23	27°21'01
transit middle	10503 Feb 15 18:35	0°) 53′26	0°02'14	retrograde	10504 Jan 17 07:12	23° ≈ 18'41	
transit begin	10503 Feb 15 15:41	1°) €02'01		evening set	10504 Jan 24 03:09	20° ≈ 45'48	
transit end	10503 Feb 15 21:30	0°) 44′52		min. Earth dist.	10504 Jan 27 23:28	17° ≈ 14'34	0.64545 AU
asc. node	10503 Feb 15 16:15	1°) €00'21		inferior conj	10504 Jan 30 09:41	14° ≈ 38′20	-1°02'49
	10503 Feb 16 12:51	30° Ŗ ≈		minimum elong	10504 Jan 30 11:36	14° ≈ 33'09	1°01'36
morning rise	10503 Feb 21 19:29	25° ≈ 14′03		asc. node	10504 Feb 02 13:25	11° ≈ 28'17	
direct	10503 Feb 24 17:07	24° ≈ 27′28		morning rise	10504 Feb 05 21:50	9° ≈ 12'35	
morning max el	10503 Mar 03 04:00	27° ≈ 53′21	18°16'54	direct	10504 Feb 08 10:54	8° ≈ 39'14	
	10503 Mar 05 02:57	0° ∀		morning max el	10504 Feb 14 20:51	11° ≈ 59'55	17°53'16
desc. node	10503 Mar 21 11:19	24° ¥ 25'51			10504 Feb 27 09:49	0°) €	
morning set	10503 Mar 22 14:33	26°) 14′58		morning set	10504 Mar 03 02:11	7°) 49′21	
	10503 Mar 24 22:46	0° Υ		desc. node	10504 Mar 07 08:04	14° ¥ 54'18	
superior conj	10503 Apr 07 01:29	20° Ƴ 44'07	-1°44'18	superior conj	10504 Mar 16 17:22	0° Υ 12'40	-1°06'04
minimum elong	10503 Apr 06 16:00	20° Y 06′59	1°43'35	minimum elong	10504 Mar 16 10:09	29°) 43′46	1°05'04
max. Earth dist.	10503 Apr 08 11:09	22° Y 55'49	1.45651 AU		10504 Mar 16 14:12	0° Υ	
	10503 Apr 12 23:48	9° 8		max. Earth dist.	10504 Mar 21 06:27	7° Y 25'48	1.45182 AU
evening rise	10503 Apr 23 01:43	15° 8 44'30		evening rise	10504 Apr 01 16:11	25° Y 08'42	
	10503 May 02 05:19	Π°			10504 Apr 04 20:20	9° 8	
greatest brilliancy	10503 May 04 00:44	2° Ⅱ 46'36	-0.8m	greatest brilliancy	10504 Apr 16 14:42	17° 8 38'20	-0.6m
asc. node	10503 May 14 14:16	17° Ⅱ 29'59			10504 Apr 25 17:47	$\Pi^{\circ}0$	
evening max el	10503 May 16 06:55	19° Ⅱ 19'53	19°07'50	evening max el	10504 Apr 28 11:20	3° Ⅱ 01'35	20°02'12
retrograde	10503 May 23 04:40	23° Ⅱ 11'32		asc. node	10504 Apr 30 11:24	4° ∏ 52'29	
evening set	10503 May 26 16:13	22° I [01'01		retrograde	10504 May 06 03:01	7° Ⅱ 25'40	
inferior conj	10503 Jun 01 03:28	16° Ⅱ 13'28	3°17'04	evening set	10504 May 09 23:32	5° Ⅱ 59'31	
minimum elong	10503 Jun 01 03:57	16° Ⅱ 11'56	3°16'33	inferior conj	10504 May 15 07:16	29° 8 58'22	3°15'53
min. Earth dist.	10503 Jun 02 16:08	14° Ⅱ 15'33	0.66500 AU	minimum elong	10504 May 15 06:37	0° Ⅱ 00'31	
morning rise	10503 Jun 06 15:09	9° Ⅱ 52'29			10504 May 15 06:47	30°R ∀	
direct	10503 Jun 12 20:57	7° Ⅱ 09'21		min. Earth dist.	10504 May 16 05:28	28° 8 43'14	0.67674 AU
desc. node	10503 Jun 17 11:39	8° Ⅱ 22'19		morning rise	10504 May 20 13:24	23° 8 39'04	
morning max el	10503 Jun 25 15:18	14° Ⅱ 46'47	26°12'07	direct	10504 May 26 08:01	21° 8 04'51	
morning man vi	10503 Jul 08 01:48	0°9	20 12 0 ,	desc. node	10504 Jun 03 08:39	24° 8 43'46	
	10503 Jul 27 02:26	0°N		morning max el	10504 Jun 07 01:00	28° 8 06'31	24°50'30
morning set	10503 Jul 31 15:38	8° Ω 14'27		morning man vi	10504 Jun 08 20:04	0°II	2. 2030
max. Earth dist.	10503 Aug 04 13:06	15° Ω 38'48	1.35027 AU		10504 Jun 30 18:53	0°©	
man. Darm dist.	1000011448 01 15.00	10 0000.0	1.50027110	morning set	10504 Jul 12 22:42	20°©14'35	
superior conj	10503 Aug 09 19:17	26° Ω 08'38	-0°07'33	max. Earth dist.	10504 Jul 16 12:51		1.37074 AU
minimum elong	10503 Aug 09 19:44	26°Ω10'57		man. Barar dist.	10504 Jul 18 07:30	0°Ω	1.5707.110
behind sun begin	10503 Aug 09 14:27	25° Ω 43'56					
behind sun end	10503 Aug 10 01:02	26° £ 38'00		superior conj	10504 Jul 23 05:13	9° Ω 22'44	-0°40'03
asc. node	10503 Aug 10 13:45	27° Ω 43'15		minimum elong	10504 Jul 23 07:48	9° Ω 35'22	
	10503 Aug 11 16:16	0° m)		asc. node	10504 Jul 27 10:35	17° Ω 45'17	
evening rise	10503 Aug 17 11:31	12° Mp 04'49		evening rise	10504 Jul 31 15:10	26°Ω11'23	
e renning rise	10503 Aug 26 18:53	0∘ ত		evening rise	10504 Aug 02 12:59	0° m)	
evening max el	10503 Flag 20 10:33 10503 Sep 05 01:38	0 — 12° Ω 38'15	20°37'43	evening max el	10504 Aug 17 13:51	23° m 56'39	19°28'17
desc. node	10503 Sep 13 09:51	17° £ 52'00		retrograde	10504 Aug 27 03:55	28° m/42'09	
retrograde	10503 Sep 16 08:40	18° £ 14'27		evening set	10504 Aug 29 00:05	28° m/32'24	
evening set	10503 Sep 18 11:49	18° ♀ 03'19		desc. node	10504 Aug 30 07:07	28° m) 14'30	
inferior conj	10503 Sep 16 11:49 10503 Sep 27 14:58	14° ⊆ 07'08	-4°08'03	inferior conj	10504 Nag 50 07:07 10504 Sep 06 17:23	24° M) 26'28	-2°17'53
minimum elong	10503 Sep 27 11:30 10503 Sep 27 05:09	14° £ 21'17	4°05'04	minimum elong	10504 Sep 06 11:13	24° My 36'22	
min. Earth dist.	10503 Sep 28 16:48	13° £ 29'55	0.54701 AU	min. Earth dist.	10504 Sep 09 04:15	22° m/52'10	0.55587 AU
morning rise	10503 Oct 05 22:12	10° ⊆ 07'29	0.54701710	morning rise	10504 Sep	19° m 56'21	0.55507 110
direct	10503 Oct 05 22:12 10503 Oct 10 02:56	9° £ 29'39		direct	10504 Sep 14 17:35 10504 Sep 19 20:27	18° m 59'33	
morning max el	10503 Oct 10 02:50 10503 Oct 23 08:53	15° £ 53'42	23°22'26	morning max el	10504 Oct 03 20:09	26° My 01'10	25°08'12
morning mux of	10503 Nov 03 11:11	0°M	23 22 20	morning max or	10504 Oct 03 20:09 10504 Oct 07 14:58	ე∘ <u>ഹ</u>	25 00 12
asc. node	10503 Nov 05 11.11 10503 Nov 06 14:16	5°M14'25		asc. node	10504 Oct 07 14.38 10504 Oct 23 11:08	0 <u>₽</u> 24° ₽ 15'36	
morning set	10503 Nov 06 14.16 10503 Nov 15 19:38	23°M22'00		ase. noue	10504 Oct 26 09:34	0°M	
morning set	10503 Nov 15 19:38 10503 Nov 18 21:39	23°11622 00 0° ₹ ¹		morning set	10504 Oct 26 09:34 10504 Oct 30 07:18	8°ML07'30	
	10303 INOV 18 21.39	υ Χ .		morning set	10304 001 30 07.18	o 1160/30	
superior conj	10503 Nov 22 17:52	8° ∡ 19'34	1°39'40	superior conj	10504 Nov 06 03:09	23° M L04'02	1°38'17
minimum elong	10503 Nov 22 17.32 10503 Nov 22 18:10	8° × 1934	1°40'08	minimum elong	10504 Nov 06 02:21	23°M59'34	1°38'38
max. Earth dist.	10503 Nov 25 14:00	14°×23'08	1.33312 AU	max. Earth dist.	10504 Nov 07 17:01	26°M31'39	1.32221 AU
evening rise	10503 Nov 25 14:00 10503 Nov 30 10:53	24° × ⁷ 22'44	1.55512 AU	max. Latin dist.	10504 Nov 07 17:01 10504 Nov 09 07:23	20 IIC31 39 0° ⊼ 1	1.52221 AU
evening 1150	10503 Nov 30 10.33 10503 Dec 03 08:07	24 x・22 44 0°る		evening rise	10504 Nov 09 07.23 10504 Nov 13 07:42	0 x · 8° ₹ 28'34	
	10.00 DCC 03 00.07	ÿ		Cvening 1150	10307 INUV 13 U/.42	0 7 20 34	

	10504 Nov 24 18:03	ი∘ჳ		evening rise	10505 Oct 28 11:26	22°M51'23	
desc. node	10504 Nov 26 05:01	2°る26'46		evening rise	10505 Oct 28 11:20 10505 Oct 31 22:39	0° x ⁷	
evening max el	10504 Dec 16 04:23	28°る56'00	27°30'18	desc. node	10505 Nov 13 02:08	21° х 43′10	
e venning man er	10504 Dec 17 08:14	0° ≈	2, 3010	dose. node	10505 Nov 18 17:44	0°중	
retrograde	10504 Dec 29 23:49	6° ≈ 14'39		evening max el	10505 Nov 28 10:26	11° る 15'56	27°06'33
evening set	10505 Jan 06 00:09	3° ≈ 50'41		retrograde	10505 Dec 12 08:05	18° る 26'50	
min. Earth dist.	10505 Jan 09 17:36	0° ≈ 47'48	0.62673 AU	evening set	10505 Dec 19 06:18	16° පි 20'54	
	10505 Jan 10 13:53	30°Rる		min. Earth dist.	10505 Dec 23 00:59	13° る 38'43	0.60606 AU
inferior conj	10505 Jan 12 14:00	28° る 03'36	-2°14'49	inferior conj	10505 Dec 26 04:15	11° ろ 00'01	-3°30'14
minimum elong	10505 Jan 12 18:27	27° る 52'52	2°12'34	minimum elong	10505 Dec 26 11:12	10° る 45'18	3°27'20
asc. node	10505 Jan 19 10:34	22° る 58'16		morning rise	10506 Jan 02 18:42	6° る 10'23	
morning rise	10505 Jan 19 15:05	22° る 54'14		direct	10506 Jan 04 22:11	5°₹52'06	
direct	10505 Jan 21 21:49	22° る 30'14		asc. node	10506 Jan 06 07:44	6° ප 00'09	
morning max el	10505 Jan 28 14:17	25° る 55'23	17°47'12	morning max el	10506 Jan 12 05:00	9° ට 30'42	17°59'41
	10505 Feb 01 01:31	0° ≈			10506 Jan 25 13:55	0° ≈	
morning set	10505 Feb 13 14:05	20° ≈ 33'36		morning set	10506 Jan 27 19:41	4° ≈ 07'12	
	10505 Feb 18 23:42	0° ∀					
desc. node	10505 Feb 22 04:51	5°) 31′07		superior conj	10506 Feb 06 22:53	22° ≈ 30'36	0°16'08
				minimum elong	10506 Feb 07 00:13	22° ≈ 36'30	0°16'16
superior conj	10505 Feb 25 07:41	10°) 46′32	-0°23'20	desc. node	10506 Feb 09 01:39	26° ≈ 12′08	
minimum elong	10505 Feb 25 05:21	10°) (36′47	0°22'46		10506 Feb 11 06:45	0°) €	
max. Earth dist.	10505 Mar 03 23:41	21°) 41′48	1.44026 AU	max. Earth dist.	10506 Feb 14 12:59	5° ∺ 28'38	1.42309 AU
	10505 Mar 09 05:21	0° Y		evening rise	10506 Feb 20 05:29	14°){ 43′07	
evening rise	10505 Mar 12 04:42	4° Y 37'20			10506 Mar 02 03:35	0° Y	
	10505 Mar 29 06:04	9° 8			10506 Mar 24 16:27	9° 8	
evening max el	10505 Apr 11 10:16	16° 8 45'16	21°09'43	evening max el	10506 Mar 25 04:14	0° 8 30'02	22°26'25
asc. node	10505 Apr 17 08:35	21° 8 13'20		retrograde	10506 Apr 03 22:33	6° 8 16'26	
retrograde	10505 Apr 20 01:32	21° 8 49'10		asc. node	10506 Apr 04 05:50	6° 8 15'59	
evening set	10505 Apr 24 08:01	20° 8 07'16		evening set	10506 Apr 08 15:59	4° 8 19'18	
inferior conj	10505 Apr 29 14:44	13° 8 54'23	3°03'09		10506 Apr 12 12:03	30° ₹ Υ	
minimum elong	10505 Apr 29 13:14	13° 8 59'36	3°02'37	inferior conj	10506 Apr 13 23:46	27° Y 57'05	2°40'15
min. Earth dist.	10505 Apr 29 23:23	13° 8 24'21	0.68390 AU	minimum elong	10506 Apr 13 21:44	28° Y ′04'12	2°39'36
morning rise	10505 May 04 18:13	7° 8 39'02		min. Earth dist.	10506 Apr 13 19:42	28° Y 11'16	0.68648 AU
direct	10505 May 09 23:53	5° 8 21'01		morning rise	10506 Apr 19 03:20	21° Y 47'04	
morning max el	10505 May 20 10:39	11° 8 34'09	23°21'06	direct	10506 Apr 23 19:25	19° Ƴ 49'38	
desc. node	10505 May 21 05:34	12° 8 22'48		morning max el	10506 May 02 23:21	25° Y 10′26	21°53'11
	10505 Jun 04 03:21	0°II			10506 May 07 07:32	0°8	
	10505 Jun 23 14:17	0.22		desc. node	10506 May 08 02:27	0° 8 57'35	
morning set	10505 Jun 24 07:39	1°512'40	1 20256 ATT	. ,	10506 May 28 14:12	0°II	
max. Earth dist.	10505 Jun 28 09:31	8°9010'45	1.39356 AU	morning set	10506 Jun 04 14:25	10° П 59'04 20° П 28'39	1 41502 ATT
	10505 Jul 06 01:06	219655145	1012114	max. Earth dist.	10506 Jun 10 10:00	20°Щ28′39 0° ©	1.41592 AU
superior conj	10505 Jul 06 01:06 10505 Jul 06 06:01	21°\$55'45 22°\$18'35			10506 Jun 16 00:39	0.50	
minimum elong	10505 Jul	0°Ω	1 12 39	superior conj	10506 Jun 18 02:22	3° 5 36'49	10/12/22
asc. node	10505 Jul 14 07:30	7° Ω 40'21		minimum elong	10506 Jun 18 02:22	4° © 04'57	
evening rise	10505 Jul 15 11:10	9° Ω 54'01		evening rise	10506 Jun 28 19:50	23° © 03'12	1 43 23
evening rise	10505 Jul 26 18:22	0° m)		asc. node	10506 Jul 01 04:28	27° © 23'52	
evening max el	10505 Jul 31 14:07	5° m ₀ 59'55	18°39'59	dse. Hode	10506 Jul 02 14:41	0°Ω	
retrograde	10505 Aug 08 16:31	10° mg 02'49	10 27 07	evening max el	10506 Jul 14 22:37	18° Ω 39'58	18°12'20
evening set	10505 Aug 10 16:23	9° mp 48'57		retrograde	10506 Jul 22 00:19	22°Ω14'44	10 1220
desc. node	10505 Aug 17 04:21	6° mg 28'38		evening set	10506 Jul 24 07:21	21°Ω52'45	
inferior conj	10505 Aug 18 15:24	5° m/24'10	-0°27'03	inferior conj	10506 Jul 31 11:13	17° Ω 07'14	1°03'36
minimum elong	10505 Aug 18 14:18	5° m/26'13		minimum elong	10506 Jul 31 13:11	17° Ω 02'55	1°02'32
min. Earth dist.	10505 Aug 21 20:22	3° mp 01'01	0.57248 AU	min. Earth dist.	10506 Aug 03 19:26	14° Ω 12'44	0.59373 AU
morning rise	10505 Aug 26 08:48	0° Mp 16'44		desc. node	10506 Aug 04 01:35	14° Ω 00'04	
C	10505 Aug 26 23:53	30°R Ω		morning rise	10506 Aug 07 15:48	11° Ω 26'48	
direct	10505 Sep 01 03:49	28° Ω 53'53		direct	10506 Aug 14 00:38	9° Ω 34'27	
	10505 Sep 06 09:39	0° m/y		morning max el	10506 Aug 28 09:21	17° Ω 24'00	27°36'33
morning max el	10505 Sep 15 11:08	6° m 23′23	26°37'48	-	10506 Sep 07 20:31	0° m/y	
-	10505 Oct 02 22:11	0∘ ⊽			10506 Sep 25 12:10	0∘ ⊽	
asc. node	10505 Oct 10 07:59	13° ≏ 41'36		asc. node	10506 Sep 27 04:50	3° ≏ 25'31	
morning set	10505 Oct 14 17:29	22° ≏ 45'41		morning set	10506 Sep 29 00:29	7° ≙ 11'59	
	10505 Oct 18 01:33	0° M		max. Earth dist.	10506 Oct 05 10:40	21° ≏ 09'46	1.31459 AU
superior conj	10505 Oct 21 14:34	7°M51'27	1°31'03	superior conj	10506 Oct 06 02:14	22° ჲ 36′19	1°18'18
minimum elong	10505 Oct 21 12:54	7° ™ 42'10	1°31'10	minimum elong	10506 Oct 06 00:04	22° ≏ 24'17	1°18'11
max. Earth dist.	10505 Oct 22 01:05	8° ™ 49'59	1.31601 AU		10506 Oct 09 10:07	0° M	

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evening rise	10506 Oct 12 19:44	7° M 24'49			10507 Oct 01 01:39	0° M	
<i>8</i> 11	10506 Oct 24 10:58	0° ⊼		desc. node	10507 Oct 17 20:32	27°M46'30	
desc. node	10506 Oct 30 23:19	10° ∡ 15'42			10507 Oct 19 17:26	0° ∡ ¹	
evening max el	10506 Nov 10 08:56	22° ∡ ¹45'11	26°08'52	evening max el	10507 Oct 22 23:13	3° ∡ ¹23'55	24°43'09
retrograde	10506 Nov 24 06:51	29° х 49′00		retrograde	10507 Nov 05 18:21	10° ∡ 19'29	
evening set	10506 Nov 30 17:12	28° ∡ 10′05		evening set	10507 Nov 11 04:22	9° ∡ 13'57	
min. Earth dist.	10506 Dec 04 21:51	25° ∡ ³35'14	0.58497 AU	min. Earth dist.	10507 Nov 16 10:39	6° ∡ 727'54	0.56593 AU
inferior conj	10506 Dec 08 00:53	23° ∡ 17'50	-4°40'59	inferior conj	10507 Nov 19 01:12	4° ∡ ¹47'51	-5°32'23
minimum elong	10506 Dec 08 08:51	23° х 03′13	4°38'30	minimum elong	10507 Nov 19 06:17	4° ∡ °39'41	5°31'21
morning rise	10506 Dec 16 03:02	18° ∡ ′50'44		morning rise	10507 Nov 27 10:26	0° ∡ ′42'45	
direct	10506 Dec 18 07:27	18° ∡ °34'53		direct	10507 Nov 29 21:37	0° ≯ ¹26′00	
asc. node	10506 Dec 24 04:50	20° ₹ ³38'03		morning max el	10507 Dec 09 11:22	5° ₮ 00'05	19°26'52
morning max el	10506 Dec 26 13:20	22° ∡ ³36′17	18°32'18	asc. node	10507 Dec 11 01:52	6° х 39′40	
	10507 Jan 01 09:22	0° ප			10507 Dec 25 07:13	0°ප	
morning set	10507 Jan 11 13:38	18° る 14'31		morning set	10507 Dec 26 15:52	2° る 42'46	
	10507 Jan 17 16:25	0° ≈					
				superior conj	10508 Jan 03 16:44	18° る 45'45	1°12'37
superior conj	10507 Jan 20 11:35	5° ≈ 15′29	0°48'28	minimum elong	10508 Jan 03 19:42	19° ට 00'18	1°12'46
minimum elong	10507 Jan 20 14:31	5° ≈ 29'07	0°48'29		10508 Jan 09 14:38	0° ≈	
desc. node	10507 Jan 26 22:30	16° ≈ 54'14		max. Earth dist.	10508 Jan 10 03:21	0° ≈ 58'19	1.38013 AU
max. Earth dist.	10507 Jan 27 21:36	18° ≈ 34'50	1.40225 AU	evening rise	10508 Jan 13 20:51	7° ≈ 39'38	
evening rise	10507 Feb 01 02:32	25° ≈ 43'41		desc. node	10508 Jan 13 19:22	7° ≈ 33'08	
	10507 Feb 03 16:48	0° ∀			10508 Jan 27 14:03	0° ∀	
	10507 Feb 23 20:52	0° Υ		evening max el	10508 Feb 18 08:11	28° ∺ 06′26	25°04'31
evening max el	10507 Mar 07 18:51	14° Ƴ 17'04	23°46'48		10508 Feb 20 08:43	0° Y	
retrograde	10507 Mar 18 16:42	20° Y 42′50		retrograde	10508 Mar 01 06:52	5° Y ′02'43	
asc. node	10507 Mar 22 03:05	19° Ƴ 47'12		evening set	10508 Mar 07 00:05	2° Y 40'05	
evening set	10507 Mar 23 21:51	18° Ƴ 31'45		asc. node	10508 Mar 08 00:19	1° Ƴ 44'22	
min. Earth dist.	10507 Mar 28 16:17	12° Y ′58'47	0.68466 AU		10508 Mar 09 14:43	30° ₹	
inferior conj	10507 Mar 29 08:29	12° Y 03'30	2°07'52	min. Earth dist.	10508 Mar 11 10:59	27° ¥ 41'57	
minimum elong	10507 Mar 29 06:18	12° Y 10′58	2°07'09	inferior conj	10508 Mar 12 14:58	26° ∺ 10'14	1°26'14
morning rise	10507 Apr 03 14:45	5° Y 59'58		minimum elong	10508 Mar 12 13:08	26° ¥ 16′15	1°25'39
direct	10507 Apr 07 17:31	4° Υ ′24'27		morning rise	10508 Mar 18 02:30	20° 米 14′29	
morning max el	10507 Apr 15 18:16	8° Y ′58′21	20°33'56	direct	10508 Mar 21 16:53	19° ∺ 00'00	
desc. node	10507 Apr 24 23:17	20° Y 12′58		morning max el	10508 Mar 28 20:55	22° ¥ 57'47	19°28'07
	10507 May 01 20:07	0° 8			10508 Apr 03 19:34	0° Υ	
morning set	10507 May 14 21:25	19° 8 43'23		greatest brilliancy	10508 Apr 10 13:50	9° Ƴ 34'57	-0.7m
	10507 May 21 10:21	Π °0		desc. node	10508 Apr 10 20:06	9° Y ′58'04	
max. Earth dist.	10507 May 23 16:58	3°Д38'49	1.43506 AU	morning set	10508 Apr 22 20:36		
		🗨			10508 Apr 24 00:25	0° 8	
superior conj	10507 May 30 04:44	14° Ⅱ 16'50		max. Earth dist.	10508 May 05 06:09	17° 8 31'29	1.44884 AU
minimum elong	10507 May 30 09:45	14° Ⅲ 37'45	2°05'52				
	10507 Jun 08 09:44	0.22		superior conj	10508 May 09 07:05	23° 8 56'22	
evening rise	10507 Jun 11 12:36	5°9527'48		minimum elong	10508 May 09 06:17	23° 8 53'09	2°13'20
asc. node	10507 Jun 18 01:28	16°\$50'46			10508 May 13 01:33	0°II	
	10507 Jun 26 19:56	0°Ω	1000 412.1	evening rise	10508 May 23 08:37	16° Ⅱ 57'05	
evening max el	10507 Jun 28 11:27	1° Ω 47'10	18°04'21	Ī	10508 May 31 05:00	0°95	
retrograde	10507 Jul 04 23:43	5° Ω 08'51		asc. node	10508 Jun 03 22:30	5°954'54	10015105
evening set	10507 Jul 07 14:34	4° Ω 35'39		evening max el	10508 Jun 11 01:13	15°5512'47	18°15'05
	10507 Jul 13 14:30	30°₹©	2000127	retrograde	10508 Jun 17 10:06	18°535'35	
inferior conj	10507 Jul 14 02:09	29°530'45	2°08'27	evening set	10508 Jun 20 08:51	17°548'51	2040142
minimum elong	10507 Jul 14 04:57	29°523'42	2°07'11	inferior conj	10508 Jun 26 08:05	12°526'19	2°49'42
min. Earth dist.	10507 Jul 17 03:15	26°527'46	0.61644 AU	minimum elong	10508 Jun 26 10:20	12°519'56	2°48'45
morning rise	10507 Jul 20 16:58	23°527'42		min. Earth dist.	10508 Jun 28 20:23	9°536'39	0.63793 AU
desc. node	10507 Jul 21 22:47	22°540'38		morning rise	10508 Jul 02 10:23	6°511'01	
direct	10507 Jul 27 09:06	21°508'32	27957111	desc. node	10508 Jul 07 19:55	3°539'17	
morning max el	10507 Aug 10 14:12		27°57'11	direct	10508 Jul 09 02:58	3°533'41	27040112
	10507 Aug 11 09:57	0° Ω		morning max el	10508 Jul 22 23:13	11°536'02	21-40-13
	10507 Sep 01 19:12	0°M) 21°M>20/21			10508 Aug 06 13:09	0° Ω	
morning set	10507 Sep 13 02:15	21° Mp 20'21			10508 Aug 24 06:08	0° m)	
asc. node	10507 Sep 14 01:38	23°Mp21'11		morning set	10508 Aug 26 20:30	5° Mp 04'50	
n a v	10507 Sep 17 04:57	0∘ ⊽	1 21012 ***	asc. node	10508 Aug 30 22:26	13° M) 24'12	1.00/70 ***
max. Earth dist.	10507 Sep 18 17:40	3° ჲ 19'00	1.31812 AU	max. Earth dist.	10508 Aug 31 18:20	15° Mp 08'28	1.32672 AU
avmani '	10507 9 20 12 17	70 0 10121	1900/20	aumoni	10500 0 02 10 50	210m 24155	0027124
superior conj	10507 Sep 20 12:17	7° Ω 12'31	1°00'20	superior conj	10508 Sep 03 18:50	21° m 34'55	0°37'24
minimum elong	10507 0 20 10 00	70 0 00107					002(150
evening rise	10507 Sep 20 10:06 10507 Sep 27 06:32	7° £ 00'27 22° £ 02'24	0°59'59	minimum elong	10508 Sep 03 17:10 10508 Sep 07 15:59	21° ™ 25'54 0° ₽	0°36'58

J	3		υ	()/		,	1 0
evening rise	10508 Sep 10 18:00	6° Ω 39'16		behind sun begin	10509 Aug 18 14:28	5° m)09'51	
e vennig rise	10508 Sep 22 23:18	0°M		behind sun end	10509 Aug 18 23:42	5° m 58'03	
evening max el	10508 Oct 03 09:53	13°M33'32	23°03'20	evening rise	10509 Aug 26 04:09	21° mp 09'22	
desc. node	10508 Oct 03 17:46	13°M52'28		8	10509 Aug 30 11:47	0∘ ⊽	
retrograde	10508 Oct 16 17:04	20°M11'00		evening max el	10509 Sep 15 01:44	23° ₽ 49'05	21°26'37
evening set	10508 Oct 20 16:33	19°M36'32		desc. node	10509 Sep 20 15:01	28° £ 04'35	
min. Earth dist.	10508 Oct 27 19:02		0.55210 AU	retrograde	10509 Sep 27 05:45	29° £ 51'33	
inferior conj	10508 Oct 29 06:09	15°M30'17		evening set	10509 Sep 29 21:04	29° £ 35'36	
minimum elong	10508 Oct 29 03:44	15°M33'47		inferior conj	10509 Oct 08 23:14	25° £ 39'35	-4°58'07
morning rise	10508 Nov 06 16:39	11°M40'20		minimum elong	10509 Oct 08 14:06	25° £ 52'21	4°55'58
direct	10508 Nov 09 17:20	11°ML18'41		min. Earth dist.	10509 Oct 09 02:19	25° £ 35'16	
morning max el	10508 Nov 20 20:05		20°44'09	morning rise	10509 Oct 17 07:59	21° ≏ 49'50	
asc. node	10508 Nov 26 22:50	23°M49'31		direct	10509 Oct 21 02:20	21° ≏ 19'11	
	10508 Nov 30 21:39	0° ⊼		morning max el	10509 Nov 02 15:45	27° £ 18′04	22°21'16
morning set	10508 Dec 09 23:25	17° ∡ 23'38		Ü	10509 Nov 05 06:50	0° M	
S	10508 Dec 16 01:00	ರ°0		asc. node	10509 Nov 13 19:45	11°ML52'38	
					10509 Nov 23 09:03	0° ∡ ¹	
superior conj	10508 Dec 17 09:51	2° る 48'46	1°28'48	morning set	10509 Nov 24 10:03	2° ∡ 11'05	
minimum elong	10508 Dec 17 12:01	2° る 59'49	1°29'09	· ·			
max. Earth dist.	10508 Dec 22 11:28	12° る 55'53	1.35926 AU	superior conj	10509 Dec 01 11:24	17° ∡ 14'39	1°37'39
evening rise	10508 Dec 26 09:55	20° る 23'55		minimum elong	10509 Dec 01 12:24	17° ∡ 19'56	1°38'06
desc. node	10508 Dec 30 16:17	28° る 04'49		max. Earth dist.	10509 Dec 05 02:32	24° ∡ ¹49'44	1.34148 AU
	10508 Dec 31 18:47	0° ≈			10509 Dec 07 15:51	0°ರ	
	10509 Jan 20 13:42	0°)		evening rise	10509 Dec 09 14:04	3° ප 47'16	
evening max el	10509 Jan 30 21:39	11°) 54'49	26°12'19	desc. node	10509 Dec 17 13:15	18° පි 24'50	
retrograde	10509 Feb 12 15:58	19° ₩ 09'30			10509 Dec 24 14:38	0° ≈	
evening set	10509 Feb 18 20:56	16°) 38′47		evening max el	10510 Jan 13 11:14	25° ≈ 34'18	27°02'45
asc. node	10509 Feb 22 21:33	12°) 27′11			10510 Jan 18 19:42	0°) €	
min. Earth dist.	10509 Feb 23 01:30	12°) 15′16	0.66860 AU	retrograde	10510 Jan 26 19:07	2° ¥ 56′19	
inferior conj	10509 Feb 24 17:15	10° ¥ 12'50	0°35'24	evening set	10510 Feb 02 10:31	0° ∺ 22'27	
minimum elong	10509 Feb 24 16:21	10° ∺ 15'37	0°35'15		10510 Feb 02 21:40	30° R ≈	
morning rise	10509 Mar 02 12:31	4°) €26'42		min. Earth dist.	10510 Feb 06 09:36	26° ≈ 32'46	0.65488 AU
direct	10509 Mar 05 15:52	3°) 30′47		inferior conj	10510 Feb 08 13:09	24° ≈ 06'36	-0°24'28
morning max el	10509 Mar 12 06:44		18°38'05	minimum elong	10510 Feb 08 13:51	24° ≈ 04'37	0°23'50
desc. node	10509 Mar 28 16:52	0° Ƴ 04'39		asc. node	10510 Feb 09 18:45	22° ≈ 43'44	
	10509 Mar 28 15:40	0° Υ		morning rise	10510 Feb 14 18:31	18° ≈ 32'34	
morning set	10509 Apr 02 11:26	7° Ƴ 33'49		direct	10510 Feb 17 12:22	17° ≈ 51'55	
	10509 Apr 16 19:13	0°8		morning max el	10510 Feb 23 21:49		18°04'47
max. Earth dist.	10509 Apr 18 00:09	1° 8 53'10	1.45588 AU		10510 Mar 02 18:35		
	10500 1 10 16 05	201455126	2000122	morning set	10510 Mar 14 06:46	18° ¥ 21'14	
superior conj	10509 Apr 18 16:07	2° 8 55'36		desc. node	10510 Mar 15 13:37	20° ¥ 26'57	
minimum elong	10509 Apr 18 08:19	2° 8 25'05	2°00'08		10510 Mar 21 11:15	0 ° Υ	
evening rise	10509 May 04 04:40	27° 8 26'11			10510 M 20 00 15	1100050147	1020117
greatest brilliancy	10509 May 05 19:13 10509 May 12 01:33	0°Ⅱ 9°Ⅱ58'45	0.0	superior conj	10510 Mar 29 00:15 10510 Mar 28 15:03	11° Y 59'47 11° Y 23'33	-1°29'17 1°28'20
asc. node	10509 May 12 01.35 10509 May 21 19:35	9 П 3843 24° П 27'55	-0.9111	minimum elong max. Earth dist.	10510 Mar 28 13.03 10510 Mar 31 20:23	11 γ 23 33 16° Υ 27'29	1.45546 AU
evening max el	10509 May 21 19:35 10509 May 25 12:58	28° II 48'42	18°43'42	max. Earth dist.	10510 Mar 31 20:23 10510 Apr 09 12:59	0° 8	1.45546 AU
evening max er	10509 May 25 12:38 10509 May 26 19:40	20 п 4042 0° ©	16 43 42	evening rise	10510 Apr 09 12.39 10510 Apr 14 03:20	7° と 07'14	
retrograde	10509 Jun 01 03:31	0 S 2°S25'54		greatest brilliancy	10510 Apr 14 03:20 10510 Apr 27 01:19	26° 8 52'49	-0.7m
evening set	10509 Jun 04 10:20	1°924'11		greatest orimancy	10510 Apr 29 04:03	0°Ⅱ	0.7111
evening set	10509 Jun 06 05:51	30°R∏		asc. node	10510 May 08 16:43	12° Ⅱ 20'12	
inferior conj	10509 Jun 10 00:59	25° II 45'27	3°11'38	evening max el	10510 May 08 20:32	12° I 129'53	19°29'04
minimum elong	10509 Jun 10 02:09	25° II 41'50		retrograde	10510 May 16 00:52	16° Ⅱ 33'44	1, 2, 0.
min. Earth dist.	10509 Jun 11 22:20		0.65635 AU	evening set	10510 May 19 16:14	15° Ⅱ 16'24	
morning rise	10509 Jun 15 17:13	19° Ⅱ 25'17		inferior conj	10510 May 25 01:39	9° Ⅱ 22'49	3°18'03
direct	10509 Jun 22 04:19	16° Ⅱ 41′08		minimum elong	10510 May 25 01:38	9° Ⅱ 22'52	
desc. node	10509 Jun 24 17:01	17° Ⅲ 03'02		min. Earth dist.	10510 May 26 07:59	7° Ⅱ 42'51	0.67064 AU
morning max el	10509 Jul 05 09:46	24° Ⅲ 31'15	26°51'20	morning rise	10510 May 30 10:39	3° Ⅱ 02'25	
-	10509 Jul 10 08:17	0ಂತಾ		direct	10510 Jun 05 12:01	0°Ⅱ22'15	
	10509 Jul 30 23:33	$0^{\circ}\Omega$		desc. node	10510 Jun 11 14:04	2° Ⅱ 28'46	
morning set	10509 Aug 10 04:14	18° Ω 16'51		morning max el	10510 Jun 17 20:07	7° Ⅱ 45′23	25°38'57
max. Earth dist.	10509 Aug 14 09:31	26° Ω 32'49	1.34037 AU		10510 Jul 05 04:34	0° ©	
	10509 Aug 16 02:27	0°m/			10510 Jul 23 11:20	$0^{\circ}\Omega$	
asc. node	10509 Aug 17 19:14	3°M 29'52		morning set	10510 Jul 23 21:39	0° Ω 46'53	
				max. Earth dist.	10510 Jul 27 14:32	7° Ω 40′01	1.35866 AU
superior conj	10509 Aug 18 19:36	5°M 36'38	0°10'00				
minimum elong	10509 Aug 18 19:05	5° Mp 33'56	0°09'38	superior conj	10510 Aug 02 11:54	19° Ω 10'42	-0°21'05

minimum elong asc. node	10510 Aug 02 13:12 10510 Aug 04 16:04	19° Ω 17'12 23° Ω 34'32	0°21'12	minimum elong asc. node	10511 Jul 16 20:00 10511 Jul 22 12:57	2° Ω 26'12 13° Ω 34'37	0°54'03
evening rise	10510 Aug 07 19:16 10510 Aug 10 10:55	0° m) 5° m) 27'02		evening rise	10511 Jul 25 11:48 10511 Jul 30 23:24	19° Ω 25′21 0° m	
2, 2	10510 Aug 24 06:03	0∘ ⊽		evening max el	10511 Aug 10 23:35	16° m) 19'06	19°05'05
evening max el	10510 Aug 28 05:52	4° ≏ 40'31	20°05'29	retrograde	10511 Aug 19 21:37	20° m/45'30	
retrograde	10510 Sep 07 19:16	9° ჲ 55'05		evening set	10511 Aug 21 18:23	20° My $34'38$	
desc. node	10510 Sep 07 12:18	9° ჲ 54'51		desc. node	10511 Aug 25 09:35	19° m 17'39	
evening set	10510 Sep 09 17:44	9° Ω 45'16		inferior conj	10511 Aug 30 04:24	16° Mp 21'10	
inferior conj	10510 Sep 18 18:13	5° Ω 46'04		minimum elong	10511 Aug 30 00:31	16° m 27'50	1°27'59
minimum elong	10510 Sep 18 09:24		3°20'20	min. Earth dist.	10511 Sep 02 00:49	14° Mp 24'29	0.56209 AU
min. Earth dist.	10510 Sep 20 11:27 10510 Sep 26 23:57	4° £ 44'27 1° £ 35'32	0.54972 AU	morning rise direct	10511 Sep 07 03:35	11° Mp 34'56	
morning rise direct	10510 Sep 26 25.57 10510 Oct 01 13:03	0° Ω 50'45		morning max el	10511 Sep 12 12:01 10511 Sep 26 16:27	10° m) 28'04 17° m) 43'05	250/10/23
morning max el	10510 Oct 01 13:05 10510 Oct 15 03:54	0 <u>□</u> 3043 7° <u>Ω</u> 31'02	24°08'27	morning max ci	10511 Oct 06 20:42	0∘ ⊽	23 49 23
morning max or	10510 Oct 31 08:43	0°M	2. 0027	asc. node	10511 Oct 18 13:30	ა — 19° ჲ 49'06	
asc. node	10510 Oct 31 16:39	0°M35'55			10511 Oct 23 13:45	0° M ,	
morning set	10510 Nov 08 21:49	16°M59'03		morning set	10511 Oct 24 09:06	1°M42'55	
_	10510 Nov 14 21:32	0° ∡ ¹		_			
				superior conj	10511 Oct 31 05:02	16°M41'51	1°35'54
superior conj	10510 Nov 15 18:33	1° ₹ 54'36	1°39'49	minimum elong	10511 Oct 31 03:49	16°M35'09	1°36'10
minimum elong	10510 Nov 15 18:21	1° ≯ 53'32	1°40'15	max. Earth dist.	10511 Nov 01 07:08	19°M06'05	1.31894 AU
max. Earth dist.	10510 Nov 18 01:35	6° ≯ 52'08	1.32788 AU		10511 Nov 06 07:59	0° ∡ ¹	
evening rise	10510 Nov 23 05:40	17° ∡ ³39′50		evening rise	10511 Nov 07 05:45	1° ∡ 754'12	
	10510 Nov 29 15:12	0°る		desc. node	10511 Nov 21 07:24	28° ₹ '03'02	
desc. node	10510 Dec 04 10:17	8° る 26'45 0°≈		avanina may al	10511 Nov 22 12:34	0°る 21°る36'28	27924!10
evening max el	10510 Dec 19 00:16 10510 Dec 26 23:29		27°28'45	evening max el retrograde	10511 Dec 09 08:22 10511 Dec 23 05:05	21°636'28 28° る 52'41	2/24/19
retrograde	10510 Dec 20 25:29 10511 Jan 09 15:43	6 ≈32 14 16°≈13'46	27 26 43	evening set	10511 Dec 23 05:05	26°る34'50	
evening set	10511 Jan 16 14:23	13°≈43'26		min. Earth dist.	10511 Dec 30 03:39	23° る 42'16	0.61810 AU
min. Earth dist.	10511 Jan 20 09:07	10°≈25'15	0.63781 AU	inferior conj	10512 Jan 05 22:44	20°る58'13	
inferior conj	10511 Jan 22 23:59	7° ≈ 44'11		minimum elong	10512 Jan 06 04:19	20° る 45'29	
minimum elong	10511 Jan 23 02:56	7° ≈ 36'35	1°30'57	morning rise	10512 Jan 13 05:36	15° ප් 57'14	
asc. node	10511 Jan 27 15:57	3° ≈ 32'32		asc. node	10512 Jan 14 13:07	15° る 39'40	
morning rise	10511 Jan 29 17:30	2° ≈ 25′10		direct	10512 Jan 15 10:28	15° පි 36'10	
direct	10511 Feb 01 03:41	1° ≈ 56′09		morning max el	10512 Jan 22 08:06	19° る 05'50	17°50'12
morning max el	10511 Feb 07 15:19	5° ≈ 17'14	17°48'36		10512 Jan 30 07:21	0° ≈	
	10511 Feb 23 22:58	0° ∀		morning set	10512 Feb 07 01:35	13° ≈ 34'54	
morning set	10511 Feb 24 05:29	0°) €27'51			10512 Feb 16 08:14	0° \	
desc. node	10511 Mar 02 10:21	10° ¥ 59'29		desc. node	10512 Feb 17 07:08	1° ¥ 38'30	
superior conj	10511 Mar 09 00:44	21° ¥ 53'53	0047157	superior conj	10512 Feb 18 01:49	2° ¥ 58'26	0.05155
minimum elong	10511 Mar 08 19:34	21° X 33'53		minimum elong	10512 Feb 18 01:49	2° X 56'11	
minimum ciong	10511 Mar 14 01:38	0° Υ	0 47 00	behind sun begin	10512 Feb 17 17:09	2° X 21'27	0 03 34
max. Earth dist.	10511 Mar 14 15:27	0° Υ ′54'52	1.44768 AU	behind sun end	10512 Feb 18 09:25	3° ¥ 30′50	
evening rise	10511 Mar 24 15:02	16° Y ′28′36		max. Earth dist.	10512 Feb 25 06:45	14° ¥ 58'36	1.43350 AU
	10511 Apr 02 13:20	0° 8		evening rise	10512 Mar 03 07:10	26°) €09'03	
evening max el	10511 Apr 21 22:34	26° 8 12'23	20°29'25		10512 Mar 05 18:46	0° Y	
asc. node	10511 Apr 25 13:54	29° 8 18'40			10512 Mar 26 11:15	0 \circ 8	
	10511 Apr 26 17:44	Π °0		evening max el	10512 Apr 03 19:05	9° 8 55'50	21°41'32
retrograde	10511 Apr 29 23:39	0°∏52'55		asc. node	10512 Apr 11 11:09	15° 8 08'14	
. ,	10511 May 03 00:45	30°₹ ႘		retrograde	10512 Apr 12 21:52	15° 8 18'30	
evening set	10511 May 04 00:19	29° 8 19'52	2011140	evening set	10512 Apr 17 08:47	13° 8 30'05	2054140
inferior conj minimum elong	10511 May 09 07:19 10511 May 09 06:16	23° 8 13'12 23° 8 16'46	3°11'48 3°11'19	inferior conj minimum elong	10512 Apr 22 15:42 10512 Apr 22 13:56	7° 8 12'39 7° 8 18'52	2°54'40 2°54'04
min. Earth dist.	10511 May 09 00:10 10511 May 09 23:33	23° 8 10'40	0.68034 AU	min. Earth dist.	10512 Apr 22 18:51	7° 8 01'41	0.68547 AU
morning rise	10511 May 14 11:59	16° 8 55'22	0.00034 AC	morning rise	10512 Apr 27 18:53	0° 8 59'12	0.00547 AC
direct	10511 May 20 01:05	14° 8 27'39			10512 Apr 29 01:52	30°RY	
desc. node	10511 May 29 11:02	19° 8 26'30		direct	10512 May 02 18:41	28° Y ′49'39	
morning max el	10511 May 31 05:48	21° 8 09'51	24°12'55		10512 May 06 20:00	0°8	
	10511 Jun 07 20:50	$\Pi^{\circ}0$		morning max el	10512 May 12 16:25	4° 8 41'13	22°43'02
	10511 Jun 28 10:09	0 \circ \odot		desc. node	10512 May 15 07:56	7° 8 31'29	
morning set	10511 Jul 05 20:04	12° © 23'07			10512 Jun 01 02:11	Π°	
max. Earth dist.	10511 Jul 09 12:33	18°952'37	1.38032 AU	morning set	10512 Jun 15 18:15	22° ∏ 51'59	
	10511 Jul 15 13:19	0 $^{\circ}\Omega$			10512 Jun 20 00:43	0°©	1 10222 :=:
annoni	10511 I-1 16 1625	20 000000	0054112	max. Earth dist.	10512 Jun 20 09:47	0°938'35	1.40322 AU
superior conj	10511 Jul 16 16:25	2° Ω 09'00	-U 34 12				

superior conj	10512 Jun 28 04:57	14° © 21'24	-1°26'//3		10513 May 25 05:02	0°Щ	
minimum elong	10512 Jun 28 10:42			morning set	10513 May 26 13:55	2° Ⅱ 09'06	
minimum ciong	10512 Jul 06 14:32	0°Ω	1 2027	max. Earth dist.	10513 Jun 02 12:28	13° Ⅱ 18'05	1.42457 AU
evening rise	10512 Jul 08 03:31	2° Ω 55'22		max. Lartii dist.	10313 Jun 02 12:20	15 11005	1.42437 710
asc. node	10512 Jul 08 09:54	3°Ω25'36		superior conj	10513 Jun 09 21:00	25° Ⅱ 38'10	-1°54'18
evening max el	10512 Jul 24 03:55	28° Ω 39'54	18°25'48	minimum elong	10513 Jun 10 03:18	26° I I05'12	
* · · · · · · · · · · · · · · · · · · ·	10512 Jul 25 15:34	0° m)			10513 Jun 12 09:32	0.8e	
retrograde	10512 Jul 31 18:32	2° m) 28'55		evening rise	10513 Jun 21 06:01	15° © 47'11	
evening set	10512 Aug 02 21:08	2° m) 12'09		asc. node	10513 Jun 25 06:53	23°903'06	
Č	10512 Aug 07 09:01	30°R Ω			10513 Jun 29 06:57	$0^{\circ}\Omega$	
inferior conj	10512 Aug 10 11:52	27° Ω 38'55	0°14'26	evening max el	10513 Jul 07 14:49	11° Ω 33'31	18°06'38
minimum elong	10512 Aug 10 12:23	27° Ω 37'54	0°13'55	retrograde	10513 Jul 14 09:18	15° Ω 00'30	
transit middle	10512 Aug 10 12:23	27° Ω 37'54	0°13'55	evening set	10513 Jul 16 19:46	14° Ω 34'00	
transit begin	10512 Aug 10 10:35	27° Ω 41'30		inferior conj	10513 Jul 23 16:16	9° Ω 40'12	1°34'11
transit end	10512 Aug 10 14:11	27° Ω 34'17		minimum elong	10513 Jul 23 18:49	9° Ω 34'15	1°32'55
desc. node	10512 Aug 11 06:52	27° Ω 00′39		min. Earth dist.	10513 Jul 26 22:32	6° Ω 39'15	0.60346 AU
min. Earth dist.	10512 Aug 13 19:59	24° Ω 59'30	0.58111 AU	desc. node	10513 Jul 29 04:04	4° Ω 49'23	
morning rise	10512 Aug 18 00:05	22° Ω 16'12		morning rise	10513 Jul 30 15:01	3° Ω 49′07	
direct	10512 Aug 24 01:46	20° Ω 40′33		direct	10513 Aug 06 04:03	1° Ω 44'25	
morning max el	10512 Sep 07 10:25	28° Ω 20'27	27°07'04	morning max el	10513 Aug 20 11:24	9° Ω 39'37	27°49'57
	10512 Sep 09 01:42	0° ™			10513 Sep 05 04:28	0° ™	
	10512 Sep 29 13:42	0∘ ⊽		asc. node	10513 Sep 21 07:10	29° m 13'06	
asc. node	10512 Oct 04 10:20	9° ჲ 23'34		morning set	10513 Sep 21 23:10	0° ჲ 36'07	
morning set	10512 Oct 07 18:09	16° ≙ 16'52			10513 Sep 21 16:13	0∘ ত	
	10512 Oct 14 00:45	0° M		max. Earth dist.	10513 Sep 28 00:58	13° ≏ 41'40	1.31555 AU
superior conj	10512 Oct 14 16:48	1°M29'20	1°26'18	superior conj	10513 Sep 29 04:01	16° ≏ 11'23	1°11'19
minimum elong	10512 Oct 14 14:52	1°M18'37	1°26'19	minimum elong	10513 Sep 29 01:47	15° ≏ 58'59	1°11'05
max. Earth dist.	10512 Oct 14 16:05	1°M25'23	1.31480 AU		10513 Oct 05 10:25	0°M	
evening rise	10512 Oct 21 11:42	16°M22'28		evening rise	10513 Oct 05 21:18	0°M58'38	
1 1	10512 Oct 28 05:35	0° ✓ 170 7100140			10513 Oct 21 11:37	0° ⊼ ¹	
desc. node	10512 Nov 07 04:33	17° ₹ 02'42		desc. node	10513 Oct 25 01:45	5° 🖈 11'27	25025111
·	10512 Nov 16 23:42	0°る	26945150	evening max el	10513 Nov 02 06:30	14° х 43'06	25°35'11
evening max el	10512 Nov 20 11:23	3°る35'30 10°る43'58	26°45'59	retrograde	10513 Nov 16 03:51	21° х 43'07 20° х 18'24	
retrograde	10512 Dec 04 09:51 10512 Dec 11 04:08	8°る48'36		evening set min. Earth dist.	10513 Nov 22 05:17 10513 Nov 26 18:51	20°×'18'24 17°× 7 '40'58	0.57647 AU
evening set min. Earth dist.	10512 Dec 11 04.08	6°る11'14	0.59697 AU	inferior conj	10513 Nov 20 18:31 10513 Nov 29 18:05	17 x 40 38	
inferior conj	10512 Dec 13 01:38 10512 Dec 18 05:53	3°る39'28		minimum elong	10513 Nov 29 18:05 10513 Nov 30 01:26	15° ∡ 25'17	5°04'25
minimum elong	10512 Dec 18 03.33 10512 Dec 18 13:34			morning rise	10513 Nov 30 01.26 10513 Dec 07 23:54	13 x ·23 17 11° x ⁷ 20'10	3 04 23
minimum ciong	10512 Dec 18 13:34 10512 Dec 23 12:08	30°R. ✓	3 38 40	direct	10513 Dec 07 25:34 10513 Dec 10 06:25	11° x 2010	
morning rise	10512 Dec 26 01:42	28° × 759'12		asc. node	10513 Dec 18 07:17	14° × ⁷ 37'59	
direct	10512 Dec 28 04:47	28° × ³ 712		morning max el	10513 Dec 19 00:53	15° х 18'47	18°52'41
asc. node	10512 Dec 31 10:13	29° × 22'53		morning max cr	10513 Dec 19 00:35	0°る	10 32 41
use. Houe	10513 Jan 01 15:53	0°る		morning set	10514 Jan 04 10:54	11° ප් 42'12	
morning max el	10513 Jan 04 20:34	2° る 30'02	18°10'57	morning sec	1001110011	•	
morning set	10513 Jan 20 13:00	27° る 24'32		superior conj	10514 Jan 12 22:56	28° る 15'33	0°59'43
morning sec	10513 Jan 21 22:02	0° ≈		minimum elong	10514 Jan 13 02:02	28° ප 30'16	0°59'46
				8	10514 Jan 13 21:01	0° ≈	
superior conj	10513 Jan 30 02:42	15° ≈ 09'59	0°30'48	max. Earth dist.	10514 Jan 20 00:40	11° ≈ 15′24	1.39287 AU
minimum elong	10513 Jan 30 04:58	15° ≈ 20'07	0°30'52	desc. node	10514 Jan 21 00:45	13° ≈ 01'40	
desc. node	10513 Feb 03 03:56	22° ≈ 20'32		evening rise	10514 Jan 23 22:20	18° ≈ 02'23	
max. Earth dist.	10513 Feb 06 17:28	28° ≈ 27'09	1.41451 AU	•	10514 Jan 31 05:07	0° ∀	
	10513 Feb 07 15:33	0° ∀			10514 Feb 21 08:19	0° Y	
evening rise	10513 Feb 11 16:04	6°) 37'31		evening max el	10514 Feb 28 01:27	7° Ƴ 30'54	24°20'43
-	10513 Feb 26 22:47	$0^{\circ}\mathbf{\Upsilon}$		retrograde	10514 Mar 11 10:12	14° Y 10'15	
evening max el	10513 Mar 17 11:26	23° Y 41'59	23°00'38	asc. node	10514 Mar 16 05:38	12° Y ′23'57	
retrograde	10513 Mar 27 17:48	29° Y '46'05		evening set	10514 Mar 16 20:30	11° Y ′54'04	
asc. node	10513 Mar 29 08:24	29° Y 33'36		min. Earth dist.	10514 Mar 21 11:38	6° Y 35'59	0.68260 AU
evening set	10513 Apr 01 16:02	27° Y ′43'05		inferior conj	10514 Mar 22 08:48	5° Y 24'49	1°51'21
min. Earth dist.	10513 Apr 06 15:39	21° Y '49'44	0.68617 AU	minimum elong	10514 Mar 22 06:42	5° Y 31'54	1°50'39
inferior conj	10513 Apr 07 00:50	21° Y 17'55	2°27'42		10514 Mar 26 23:26	30° ₹ ₩	
minimum elong	10513 Apr 06 22:41	21° Y °25'23	2°26'59	morning rise	10514 Mar 27 16:59	29° ¥ 24′26	
morning rise	10513 Apr 12 05:13	15° Y 10'16		direct	10514 Mar 31 14:28	27° ¥ 57'52	
direct	10513 Apr 16 15:35	13° Y ′21'55			10514 Apr 05 15:42	$0^{\circ}\Upsilon$	
morning max el	10513 Apr 25 07:17	18° Y ′21′56	21°18'04	morning max el	10514 Apr 08 05:18	2° Y 14'30	20°04'09
desc. node	10513 May 02 04:47	26° Y °25′22		desc. node	10514 Apr 19 01:34	15° Y ′54′22	
	10513 May 04 21:27	0°B			10514 Apr 28 15:14	0°B	

morning set	10514 May 05 14:45	10° 8 38'38		morning set	10515 Apr 14 17:59	19° Ƴ 22'58	
max. Earth dist.	10514 May 15 22:39	26° 8 49'34	1.44172 AU	morning sec	10515 Apr 21 14:09	0°8	
	10514 May 17 22:12	Π°		max. Earth dist.	10515 Apr 28 14:32	10° 8 57'51	1.45275 AU
superior conj	10514 May 21 12:55	5° Ⅱ 51'26		superior conj	10515 May 01 06:18	15° 8 08'51	
minimum elong	10514 May 21 15:58	6° Ⅱ 03'57	2°11'18	minimum elong	10515 May 01 02:13	14° 8 52'47	2°10'21
evening rise	10514 Jun 03 14:26	27° Ⅱ 49'04			10515 May 10 13:28	0°II	
1-	10514 Jun 04 20:54	0°© 12°©21'06		evening rise	10515 May 16 00:24	8°∏52'35 0° ©	
asc. node evening max el	10514 Jun 12 03:54 10514 Jun 21 04:26	24°\$21'06	18°06'40	asc. node	10515 May 29 04:58 10515 May 30 00:57	1° © 12'53	
retrograde	10514 Jun 27 13:55	28°\$09'47	18 00 40	evening max el	10515 Jun 04 17:32	8°9519'35	18°25'05
evening set	10514 Jun 30 08:14	27°930'53		retrograde	10515 Jun 11 03:51	11° © 47'13	10 23 03
inferior conj	10514 Jul 06 14:03	22° © 18'03	2°28'33	evening set	10515 Jun 14 05:58	10°954'13	
minimum elong	10514 Jul 06 16:44	22° © 10'56	2°27'24	inferior conj	10515 Jun 20 01:04	5° 5 24'20	3°01'06
min. Earth dist.	10514 Jul 09 10:02	19° 5 018'40	0.62588 AU	minimum elong	10515 Jun 20 02:54	5° © 18'56	3°00'19
morning rise	10514 Jul 12 23:20	16° 5 08'54		min. Earth dist.	10515 Jun 22 07:01	2° 5 45'53	0.64616 AU
desc. node	10514 Jul 16 01:14	14° © 23'48			10515 Jun 24 22:09	30°RⅡ	
direct	10514 Jul 19 16:28	13° 5 641'03		morning rise	10515 Jun 25 22:44	29° Ⅱ 06'02	
morning max el	10514 Aug 02 18:17	21°5543'20	27°54'24	direct	10515 Jul 02 13:24	26° Ⅲ 24'41	
	10514 Aug 09 23:41	0° N		desc. node	10515 Jul 02 22:21	26° Ⅱ 25'09	
marning sat	10514 Aug 29 07:56	0°M)		mamina may al	10515 Jul 11 05:36 10515 Jul 16 04:26	0°छ	27922102
morning set asc. node	10514 Sep 05 22:04 10514 Sep 08 03:58	14° Mp 35'23 19° Mp 12'38		morning max el	10515 Jul 16 04:26 10515 Aug 04 13:02	4° © 23'44 0° Ω	27-23.02
max. Earth dist.	10514 Sep 11 05:56	25° m) 44'53	1.32120 AU	morning set	10515 Aug 04 13:02 10515 Aug 20 12:15	28° Ω 07'08	
max. Darm dist.	10514 Sep 13 05:00	0∘ ⊽	1.32120710	morning set	10515 Aug 21 11:11	0° m)	
		•		max. Earth dist.	10515 Aug 25 03:05	7° m) 24'45	1.33188 AU
superior conj	10514 Sep 13 12:50	0° ہ 42'44	0°51'12	asc. node	10515 Aug 26 00:45	9° m)17'10	
minimum elong	10514 Sep 13 10:47	0° م 31'33	0°50'48				
evening rise	10514 Sep 20 08:39	15° ≏ 37'13		superior conj	10515 Aug 28 17:11	14° m 56'51	0°26'19
	10514 Sep 27 10:15	0° M		minimum elong	10515 Aug 28 15:55	14° m 50'06	0°25'52
desc. node	10514 Oct 11 22:59	22°M10'00		evening rise	10515 Sep 04 19:47	0° ჲ 11'53	
evening max el	10514 Oct 14 18:28	25°M06'40	24°01'23		10515 Sep 04 17:33	0∘ 亚	
	10514 Oct 21 06:11	0° ₹ ¹			10515 Sep 21 15:35	0°M	22020155
retrograde	10514 Oct 28 09:36	1° х 55'44 1° х 04'12		evening max el desc. node	10515 Sep 26 05:58	5°M13'34 7°M31'37	22°20'55
evening set	10514 Nov 02 06:00 10514 Nov 04 19:28	30°RM		retrograde	10515 Sep 28 20:15 10515 Oct 09 03:38	11°M39'10	
min. Earth dist.	10514 Nov 08 05:02	28°M07'58	0.55929 AU	evening set	10515 Oct 07 03:38	11°M 14'14	
inferior conj	10514 Nov 10 09:48	26°M47'51		min. Earth dist.	10515 Oct 20 12:24	7° M 41'24	0.54847 AU
minimum elong	10514 Nov 10 12:07	26°M44'20		inferior conj	10515 Oct 21 08:20	7°M13'18	
morning rise	10514 Nov 18 20:14	22°M50'40		minimum elong	10515 Oct 21 02:28	7°M21'35	5°30'26
direct	10514 Nov 21 12:40	22°M32'11		morning rise	10515 Oct 29 18:19	3°M26'08	
morning max el	10514 Dec 01 17:28	27° M $22'22$	19°56'59	direct	10515 Nov 02 01:59	3°M01'24	
	10514 Dec 04 04:50	0° ∡		morning max el	10515 Nov 13 20:27	8°M34'41	21°23'27
asc. node	10514 Dec 05 04:16	1° ∡ 11'05		asc. node	10515 Nov 22 01:13	18°M45'18	
morning set	10514 Dec 19 15:46	26° ∡ 17'45			10515 Nov 28 13:08	0° ∡ ¹	
	10514 Dec 21 11:22	0°₹		morning set	10515 Dec 04 00:53	11° 尽 02'19	
superior conj	10514 Dec 27 09:44	12° ろ 02'01	1°20'26	superior conj	10515 Dec 11 06:52	26° ∡ 16'19	1°33'25
minimum elong	10514 Dec 27 12:26	12°る15'29	1°20'39	minimum elong	10515 Dec 11 08:33	26° × 25'05	1°33'48
max. Earth dist.	10515 Jan 02 07:18	23° る 28'08	1.37102 AU		10515 Dec 13 02:13	0°る	
	10515 Jan 05 20:32	0° ≈		max. Earth dist.	10515 Dec 15 17:50	5° ⋜ 21'09	1.35123 AU
evening rise	10515 Jan 06 01:07	0° ≈ 20'36		evening rise	10515 Dec 19 21:02	13° る 22'36	
desc. node	10515 Jan 07 21:39	3° ≈ 38′29		desc. node	10515 Dec 25 18:37	24° る 05'52	
	10515 Jan 24 10:31	0°) €			10515 Dec 29 05:43	0° ≈	
evening max el	10515 Feb 10 14:45	21° ∺ 20'46	25°34'53		10516 Jan 19 08:54	0° ∀	
retrograde	10515 Feb 22 22:09	28°) €25'52		evening max el	10516 Jan 24 04:06	5°) €05'47	26°36'09
evening set	10515 Feb 28 20:39	25°¥59'05		retrograde	10516 Feb 06 04:58	12°) € 25′24	
asc. node min. Earth dist.	10515 Mar 03 02:51 10515 Mar 05 04:41	23°) (45'39 21°) (16'00	0.67492 AU	evening set min. Earth dist.	10516 Feb 12 14:41 10516 Feb 16 16:40	9° ¥ 52'19 5° ¥ 43'34	0.66324 AU
inferior conj	10515 Mar 05 04:41 10515 Mar 06 13:44	19° ¥ 30′23	0.67492 AU 1°05'47	asc. node	10516 Feb 16 16:40 10516 Feb 18 00:04	3° X 43′34 4° X 10′14	0.00324 AU
minimum elong	10515 Mar 06 12:13	19 X 30 23 19° X 35'14	1°05'21	inferior conj	10516 Feb 18 00.04 10516 Feb 18 13:35	3° ∺ 29'44	0°11'04
morning rise	10515 Mar 12 04:17	13°) ₹38'42	- 00 21	minimum elong	10516 Feb 18 13:16	3° ∺ 30'39	0°11'13
direct	10515 Mar 15 13:50	12°) 32′29		transit middle	10516 Feb 18 13:16	3° ∺ 30'39	0°11'13
morning max el	10515 Mar 22 11:13	16° ¥ 18'16	19°04'51	transit begin	10516 Feb 18 11:11	3°) €36'53	
-	10515 Apr 02 01:04	0° Y		transit end	10516 Feb 18 15:21	3°) €24'25	
greatest brilliancy	10515 Apr 04 18:00	4° Υ ′02'11	-0.7m		10516 Feb 21 17:01	30° ₹ ≈	
desc. node	10515 Apr 05 22:20	5° Y 49′23		morning rise	10516 Feb 24 12:54	27° ≈ 48'42	

direct	10516 Feb 27 11:56	26° ≈ 59'52		morning rise	10517 Feb 07 16:18	11° ≈ 49'17	
	10516 Mar 04 12:05	0° ∀		direct	10517 Feb 10 06:31	11° ≈ 14'11	
morning max el	10516 Mar 04 23:40	0°) €27'37	18°21'50	morning max el	10517 Feb 16 16:08	14° ≈ 35′04	17°55'41
desc. node	10516 Mar 22 19:06	26°) €03'14			10517 Feb 27 16:35	0° ∀	
morning set	10516 Mar 24 20:17	29° ¥ 19'10		morning set	10517 Mar 06 03:51	10°) 41′57	
morning sec	10516 Mar 25 06:32	0°Υ		desc. node	10517 Mar 09 15:51	16° ¥ 30'10	
	10310 Wai 23 00.32	V 1		dese. Hode	10517 Mar 17 22:41	0°Υ	
superior conj	10516 Apr 09 12:37	24° Y ′04'09	1040'04		1031/ Wai 1/ 22.41	0 1	
	•		1°48'28	aumorior comi	10517 Mar. 20, 02:01	3° Y 25'17	1012122
minimum elong	10516 Apr 09 03:20			superior conj	10517 Mar 20 02:01		
max. Earth dist.	10516 Apr 10 09:31	25° Y °25'51	1.45658 AU	minimum elong	10517 Mar 19 18:10	2°Υ53'58	
	10516 Apr 13 07:41	0°8		max. Earth dist.	10517 Mar 24 05:04	9° Y 57′20	1.45299 AU
evening rise	10516 Apr 25 10:37	18° 8 58'47		evening rise	10517 Apr 05 02:48	28° Y 26′23	
	10516 May 02 11:08	Π °0			10517 Apr 06 03:11	9° 8	
greatest brilliancy	10516 May 05 16:00	4° ∏ 58'16	-0.8m	greatest brilliancy	10517 Apr 19 16:21	20° 8 26'40	-0.6m
asc. node	10516 May 15 22:03	19° Ⅲ 30′04			10517 Apr 26 12:47	$\Pi^{\circ}0$	
evening max el	10516 May 18 03:39	21° Ⅲ 58′02	19°01'02	evening max el	10517 May 01 08:59	5° Ⅱ 40′08	19°53'09
retrograde	10516 May 24 23:20	25° Ⅱ 45'36		asc. node	10517 May 02 19:14	7° Ⅱ 01'14	
evening set	10516 May 28 09:36	24° ∏ 37′28		retrograde	10517 May 08 21:30	9° ∏ 58'35	
inferior conj	10516 Jun 02 21:39	18° ∏ 52'14	3°16'03	evening set	10517 May 12 16:39	8° ∏ 34'43	
minimum elong	10516 Jun 02 22:19	18° I I50'08	3°15'31	inferior conj	10517 May 12 10:35 10517 May 18 00:45	2° Д 35'36	3°16'40
		16° Ⅱ 48'14	0.66290 AU		10517 May 18 00:45	2° П 35'30	
min. Earth dist.	10516 Jun 04 12:36		0.00290 AU	minimum elong	•		
morning rise	10516 Jun 08 10:25	12° Ⅲ 31'15		min. Earth dist.	10517 May 19 01:04	1° Ⅱ 13'52	0.67535 AU
direct	10516 Jun 14 17:43	9° Ⅱ 47'26			10517 May 19 23:31	30° ₹ 8	
desc. node	10516 Jun 18 19:25	10° Ⅱ 44'20		morning rise	10517 May 23 07:33	26° 8 15'58	
morning max el	10516 Jun 27 15:13	17° Ⅱ 28'56	26°22'53	direct	10517 May 29 04:01	23° 8 39'53	
	10516 Jul 08 02:12	0 \circ \odot		desc. node	10517 Jun 05 16:27	26° 8 52'21	
	10516 Jul 27 11:38	$0^{\circ}\Omega$			10517 Jun 09 05:58	$\Pi^{\circ}0$	
morning set	10516 Aug 02 14:27	11° Ω 03'02		morning max el	10517 Jun 10 01:01	0° Ⅱ 47'25	25°03'19
max. Earth dist.	10516 Aug 06 13:42	18° Ω 39′29	1.34754 AU	C	10517 Jul 02 01:05	0° ©	
	Č			morning set	10517 Jul 16 00:21	23° © 11'18	
superior conj	10516 Aug 11 14:43	28° Ω 47'44	-0°02'49	max. Earth dist.	10517 Jul 19 14:35	29°542'51	1.36756 AU
minimum elong	10516 Aug 11 14:53	28° Ω 48'37		max. Lartii dist.	10517 Jul 19 18:17	0°Ω	1.50750710
behind sun begin	10516 Aug 11 14:55	28° Ω 18'42	0 03 00		1031/Jul 19 16.1/	0 06	
=	-				10517 1 1 26 02 26	120 007124	0025101
behind sun end	10516 Aug 11 20:43	29° Ω 18'36		superior conj	10517 Jul 26 02:26	12°Ω07'24	
asc. node	10516 Aug 11 21:35	29° Ω 23'04		minimum elong	10517 Jul 26 04:40	12° Ω 18'23	0°35'01
	10516 Aug 12 04:45	0° ™		asc. node	10517 Jul 29 18:26	19° Ω 25'59	
evening rise	10516 Aug 19 04:47	14° m 37'20		evening rise	10517 Aug 03 09:21	28° Ω 46'59	
	10516 Aug 27 00:30	0∘ ⊽			10517 Aug 03 23:50	0° m	
evening max el	10516 Sep 07 02:31	15° ≏ 41'54	20°49'52	evening max el	10517 Aug 20 12:40	26° ₩ 53'04	19°37'14
desc. node	10516 Sep 14 17:32	20° ≏ 46'21			10517 Aug 24 10:14	0∘ ত	
retrograde	10516 Sep 18 15:20	21° ≏ 25'10		retrograde	10517 Aug 30 08:33	1° ≏ 45'43	
evening set	10516 Sep 20 21:01	21° ₽ 13'09		evening set	10517 Sep 01 04:59	1° ≏ 36'07	
inferior conj	10516 Sep 30 00:25	17° ≏ 17'34	-4°22'35	desc. node	10517 Sep 01 14:49	1° -2 31'29	
minimum elong	10516 Sep 29 14:31	17° ≏ 31'41	4°19'44		10517 Sep 05 19:00	30°R.™	
min. Earth dist.	10516 Sep 30 20:33	16° ≏ 48'51	0.54648 AU	inferior conj	10517 Sep 10 00:28	27° m/32'18	-2°35'18
morning rise	10516 Oct 08 08:03	13° Ω 21'01	0.5 10 10 110	minimum elong	10517 Sep	27° mp 43'13	
direct	10516 Oct 12 10:04	13° 2 1'01'		min. Earth dist.	10517 Sep 05 17:32 10517 Sep 12 07:17	26° Mp 06'17	
		19° £ 03'08	22006/24			23° Mp 07'43	0.55401 AC
morning max el	10516 Oct 25 12:09		23°06'24	morning rise	10517 Sep 18 03:58		
	10516 Nov 03 12:09	0°M		direct	10517 Sep 23 01:41	22° mp 14'11	0.405044.0
asc. node	10516 Nov 07 22:08	7°M06'47		morning max el	10517 Oct 06 23:18	29° m 10'27	24°53'13
morning set	10516 Nov 17 12:13	25°M50′20			10517 Oct 07 19:42	0∘ ⊽	
	10516 Nov 19 10:54	0° ∡		asc. node	10517 Oct 25 19:01	26° ≏ 03'35	
					10517 Oct 27 20:15	0° M ₊	
superior conj	10516 Nov 24 11:08	10° ∡ ⁴49'11	1°39'20	morning set	10517 Nov 01 23:59	10° ™ 36'46	
minimum elong	10516 Nov 24 11:37	10° ∡ 751'46	1°39'48				
max. Earth dist.	10516 Nov 27 12:01	17° ∡ 16′05	1.33515 AU	superior conj	10517 Nov 08 19:57	25°M32'47	1°38'52
evening rise	10516 Dec 02 06:28	26° ₹ 59'28		minimum elong	10517 Nov 08 19:18	25°M29'11	1°39'15
Ü	10516 Dec 03 19:23	8°0		max. Earth dist.	10517 Nov 10 14:08	29°M23'25	1.32349 AU
desc. node	10516 Dec 11 15:37	14°る18'50		Zurur dibt.	10517 Nov 10 14:00	0° ₹	
2000. 11000	10516 Dec 21 13:07	0°≈		evening rise	10517 Nov 16 02:03	11° ₹ '02'22	
avaning may al			27017100	evening rise		11 x・02 22 0°る	
evening max el	10517 Jan 05 17:16	18°≈37'18	4/ 1/09	d 1	10517 Nov 26 01:46		
retrograde	10517 Jan 19 05:40	26°≈00'35		desc. node	10517 Nov 28 12:41	4°る11'00	
evening set	10517 Jan 26 00:28	23°≈27'19	0.64505 :		10517 Dec 17 10:42	0° ≈	A #02.110.1
min. Earth dist.	10517 Jan 29 21:30	19° ≈ 51'17		evening max el	10517 Dec 19 04:40	1° ≈ 43'40	27°31'01
inferior conj	10517 Feb 01 05:59	17° ≈ 17'22		retrograde	10518 Jan 01 23:21	9° ≈ 02'55	
minimum elong	10517 Feb 01 07:33	17° ≈ 13′03	0°51'25	evening set	10518 Jan 08 23:26	6° ≈ 37'10	
asc. node	10517 Feb 03 21:17	14° ≈ 33′10		min. Earth dist.	10518 Jan 12 17:09	3° ≈ 30′29	0.62967 AU

inferior conj	10518 Jan 15 12:10	0° ≈ 46'45	-2°03'31	minimum elong	10518 Dec 29 11:21	13° る 33'44	3°16'00
minimum elong	10518 Jan 15 16:13	0° ≈ 36'49	2°01'25	morning rise	10519 Jan 05 17:16	8° る 55'25	5 10 00
8	10518 Jan 16 07:23	30°Rる	_ 0.5 _ 5	direct	10519 Jan 07 21:00	8° ප 36'30	
asc. node	10518 Jan 21 18:29	25° ප 51'47		asc. node	10519 Jan 08 15:38	8°₹39'02	
morning rise	10518 Jan 22 11:14	25° ට 34'41		morning max el	10519 Jan 15 01:06	12° る 12'21	17°56'37
direct	10518 Jan 24 18:50	25° る 09'26		C	10519 Jan 26 22:54	0° ≈	
morning max el	10518 Jan 31 09:44	28° ප 33'11	17°46'58	morning set	10519 Jan 30 15:55	6° ≈ 45'02	
_	10518 Feb 01 18:23	0°≈		-			
morning set	10518 Feb 16 12:36	23° ≈ 17'38		superior conj	10519 Feb 10 00:17	25° ≈ 23'06	0°10'31
	10518 Feb 20 09:08	0° ∀		minimum elong	10519 Feb 10 01:12	25° ≈ 27'06	0°10'44
desc. node	10518 Feb 24 12:36	7° ∺ 06′05		behind sun begin	10519 Feb 09 19:07	25° ≈ 00'30	
				behind sun end	10519 Feb 10 07:18	25° ≈ 53'38	
superior conj	10518 Feb 28 12:38	13°) 48'46	-0°29'45	desc. node	10519 Feb 11 09:22	27° ≈ 46'44	
minimum elong	10518 Feb 28 09:36	13° ¥ 36′07	0°29'06		10519 Feb 12 16:23	0° ∀	
max. Earth dist.	10518 Mar 06 23:02	24°) 17'40	1.44241 AU	max. Earth dist.	10519 Feb 17 13:05	8° ¥ 10′09	1.42595 AU
	10518 Mar 10 13:17	0° Υ		evening rise	10519 Feb 23 12:53	17° ¥ 50′56	
evening rise	10518 Mar 15 14:39	7° Υ 52'21			10519 Mar 03 09:45	0° Υ	
	10518 Mar 30 09:40	0°8			10519 Mar 25 05:41	0°8	
evening max el	10518 Apr 14 08:47	19° 8 23'52	20°58'54	evening max el	10519 Mar 28 03:19	_	22°14'33
asc. node	10518 Apr 19 16:28	23° 8 32'46		retrograde	10519 Apr 06 17:32	8° 8 48'26	
retrograde	10518 Apr 22 20:09	24° 8 21'21		asc. node	10519 Apr 06 13:43	8° 8 48'19	
evening set	10518 Apr 27 01:08	22° 8 41'41 16° 8 30'21	2005146	evening set	10519 Apr 11 09:17	6° 8 53'26 0° 8 32'16	2944122
inferior conj	10518 May 02 07:51	16° 8 30'21	3°05'46 3°05'14	inferior conj	10519 Apr 16 16:47	0° 8 32'16	
minimum elong min. Earth dist.	10518 May 02 06:28 10518 May 02 18:26	15° 8 53'45	0.68318 AU	minimum elong min. Earth dist.	10519 Apr 16 14:48 10519 Apr 16 14:32	0°840'09	0.68639 AU
morning rise	10518 May 07 11:35	10° 8 14'24	0.06316 AU	iiiii. Eartii tiist.	10519 Apr 17 02:03	0 3 40 09	0.08039 AU
direct	10518 May 07 11:35	7° 8 53'46		morning rise	10519 Apr 17 02:03	24° Υ 21'22	
morning max el	10518 May 23 10:36	14° 8 14'19	23°34'29	direct	10519 Apr 26 14:13	$22^{\circ}\Upsilon 20'50$	
desc. node	10518 May 23 13:23	14° 8 21'21	23 342)	morning max el	10519 May 05 22:43	27° Υ 49'30	22°05'51
dese. node	10518 Jun 05 05:48	0° П		morning max er	10519 May 08 00:04	0°8	22 03 31
	10518 Jun 24 22:52	0.ee		desc. node	10519 May 10 10:14	2° 8 48'43	
morning set	10518 Jun 27 12:57	4° © 19'37			10519 May 29 20:37	0°II	
max. Earth dist.	10518 Jul 01 11:34	11° © 06'55	1.39019 AU	morning set	10519 Jun 07 23:46	14° Ⅱ 17'23	
				max. Earth dist.	10519 Jun 13 11:12	23° Ⅱ 16'54	1.41271 AU
superior conj	10518 Jul 09 00:42	24° 5 47'21	-1°08'18		10519 Jun 17 10:08	0ಂತ	
minimum elong	10518 Jul 09 05:17	25° © 08'49	1°08'03				
	10518 Jul 11 18:51	$0^{\circ}\Omega$		superior conj	10519 Jun 21 05:03	6°537'06	-1°39'21
asc. node	10518 Jul 16 15:21	9° Ω 22'34		minimum elong	10519 Jun 21 11:21	7° © 05'02	1°39'08
evening rise	10518 Jul 18 06:44	12° Ω 34′06		evening rise	10519 Jul 01 17:24	25° © 49'30	
	10518 Jul 27 19:21	0° m		asc. node	10519 Jul 03 12:19	29° 5 08'36	
evening max el	10518 Aug 03 11:20	8° M 49'59	18°45'44		10519 Jul 03 23:27	$0^{\circ}\Omega$	
retrograde	10518 Aug 11 18:27	12° m 58'36		evening max el	10519 Jul 17 18:53		18°15'10
evening set	10518 Aug 13 17:23	12° m 45'37		retrograde	10519 Jul 24 23:39	25° Ω 03'53	
desc. node	10518 Aug 19 12:06	10° m 01'19		evening set	10519 Jul 27 05:27	24° Ω 43'24	
inferior conj	10518 Aug 21 19:18	8° Tp 23'43		inferior conj	10519 Aug 03 12:03	20° Ω 01'02	0°51'30
minimum elong	10518 Aug 21 17:32	8° m/26'56	0°42'19	minimum elong	10519 Aug 03 13:43	19° Ω 57'27	0°50'31
min. Earth dist.	10518 Aug 24 22:31	6° Mp 06'57	0.56963 AU	desc. node	10519 Aug 06 09:20	17° Ω 32'46	0.50020.441
morning rise	10518 Aug 29 14:20	3° Mp 21'43		min. Earth dist.	10519 Aug 06 20:34	17° Ω 09'42	0.59038 AU
direct morning max el	10518 Sep 04 06:42 10518 Sep 18 13:31	2° Mp 03'15 9° Mp 29'04	26026117	morning rise direct	10519 Aug 10 18:39 10519 Aug 17 01:46	14° Ω 24'43 12° Ω 36'41	
morning max er	10518 Oct 04 03:16	ე∘ <u>ი</u>	20 20 17	morning max el	10519 Aug 17 01:46 10519 Aug 31 10:45	12 δ <i>t</i> 3641 20° Ω 24'11	27920106
asc. node	10518 Oct 04 05:10 10518 Oct 12 15:52	0 = 15° £ 26'20		morning max er	10519 Aug 31 10:43 10519 Sep 08 17:08	0°m)	27 30 00
morning set	10518 Oct 12 15:32 10518 Oct 17 10:30	25° Ω 16'26			10519 Sep 26 23:02	0∘ ত المار	
morning set	10518 Oct 19 15:01	0°M		asc. node	10519 Sep 29 12:40	5° ≏ 08'02	
	10310 000 17 13.01	O IIV		morning set	10519 Oct 01 18:04	9° £ 45'02	
superior conj	10518 Oct 24 07:09	10°M20'05	1°32'29		OU 01 10.0T	5 02	
minimum elong	10518 Oct 24 05:36	10°M11'25	1°32'40	superior conj	10519 Oct 08 18:54	25° ≏ 05'52	1°20'35
max. Earth dist.	10518 Oct 24 21:43	11°M40'59	1.31657 AU	minimum elong	10519 Oct 08 16:47	24° £ 54'06	1°20'30
evening rise	10518 Oct 31 04:53	25°M22'58	-	max. Earth dist.	10519 Oct 08 07:14	24° ≙ 00'58	1.31449 AU
Č	10518 Nov 02 10:20	0° ∡ ″			10519 Oct 10 23:46	0° M	
desc. node	10518 Nov 15 09:50	23° х ³33′04		evening rise	10519 Oct 15 12:38	9°M55'10	
	10518 Nov 19 16:25	ರ°0			10519 Oct 25 17:38	0° ∡ ¹	
evening max el	10518 Dec 01 11:31	14° る 10'10	27°12'21	desc. node	10519 Nov 02 07:01	12° ∡ 13'12	
retrograde	10518 Dec 15 08:53	21° る 22'23		evening max el	10519 Nov 13 11:05	25° ∡ ¹46'24	26°19'26
evening set	10518 Dec 22 08:03	19° る 12'59			10519 Nov 18 18:25	5°0	
min. Earth dist.		16070000	0.60010.411	4 1	10510 NI 27 00 14	20=751142	
	10518 Dec 26 02:03		0.60919 AU	retrograde	10519 Nov 27 09:14	2° る 51'42	
inferior conj	10518 Dec 26 02:03 10518 Dec 29 04:44	16°628'38 13° 5 48'02		evening set	10519 Nov 27 09:14 10519 Dec 03 22:03	2°63142 1° る 08'11	

	10519 Dec 05 21:26	30°R ✓		evening set	10520 Nov 13 12:50	12° ∡ 18'29	
min. Earth dist.	10519 Dec 08 00:21	-	0.58801 AU	min. Earth dist.	10520 Nov 18 14:13	9° x 35'08	0.56851 AU
inferior conj	10519 Dec 11 04:05	26° x 33 17 26° x 11'32		inferior conj	10520 Nov 21 07:26	7° √ 3308	
minimum elong	10519 Dec 11 12:05	25° x 756'31	4°28'32	minimum elong	10520 Nov 21 07:20 10520 Nov 21 13:17	7° × ⁷ 39'12	
morning rise	10519 Dec 19 04:44	21° × ⁷ 41'08	7 20 32	morning rise	10520 Nov 29 15:59	3° ₹ ¹ 40'27	3 23 27
direct	10519 Dec 21 08:36	21°×725'12		direct	10520 Dec 02 01:41	3°×724'04	
asc. node	10519 Dec 26 12:40	23°×702'17		morning max el	10520 Dec 11 10:20	7°×753'02	19°17'19
morning max el	10519 Dec 29 10:36	25° × 02 17	18°26'08	asc. node	10520 Dec 12 09:40	8° x 51'49	17 17 17
morning max er	10520 Jan 02 08:33	0°る	10 20 00	use. Houe	10520 Dec 25 17:59	0°る	
morning set	10520 Jan 14 08:16	20° පි 47'36		morning set	10520 Dec 28 09:26	5° ට 13'06	
morning sec	10520 Jan 19 03:40	0°≈		morning sec	10320 Bec 20 03.20	3 313 00	
	10320 3411 17 03.10	0 , 0 .		superior conj	10521 Jan 05 12:59	21° る 23'26	1°09'29
superior conj	10520 Jan 23 10:03	7° ≈ 59'25	0°44'03	minimum elong	10521 Jan 05 16:02	21° る 38'12	1°09'35
minimum elong	10520 Jan 23 12:51	8°≈12'21	0°44'05	g	10521 Jan 10 01:42	0°≈	1 0,00
desc. node	10520 Jan 29 06:12	18° ≈ 28'43	0 1.00	max. Earth dist.	10521 Jan 12 03:45	3° ≈ 49'46	1.38337 AU
max. Earth dist.	10520 Jan 30 21:56	21° ≈ 21'02	1.40546 AU	desc. node	10521 Jan 15 03:05	9°≈08'20	
evening rise	10520 Feb 04 06:38	28° ≈ 42'32		evening rise	10521 Jan 15 21:53	10° ≈ 30'36	
<i>8</i> 11	10520 Feb 05 01:26	0° ∀		<i>8</i>	10521 Jan 27 20:09	0° ∀	
	10520 Feb 24 22:34	0° Υ			10521 Feb 19 14:08	0° Υ	
evening max el	10520 Mar 09 18:13	16° Y ′54'27	23°34'52	evening max el	10521 Feb 20 07:43	0° Υ '44'02	24°53'29
retrograde	10520 Mar 20 12:13	23° Y °15'09		retrograde	10521 Mar 04 03:01	7° Y ′36′23	
asc. node	10520 Mar 23 10:57	22° Y 33'50		evening set	10521 Mar 09 18:24	5° Ƴ 15'26	
evening set	10520 Mar 25 15:33	21° Y ′06'05		asc. node	10521 Mar 10 08:09	4° Ƴ 44'46	
min. Earth dist.	10520 Mar 30 11:15	15° Ƴ 27'45	0.68518 AU		10521 Mar 14 10:02	30°R) €	
inferior conj	10520 Mar 31 01:38	14° Y ′38'23	2°13'24	min. Earth dist.	10521 Mar 14 06:22	0° Υ 12'03	0.67974 AU
minimum elong	10520 Mar 30 23:27	14° Y 45'54	2°12'41	inferior conj	10521 Mar 15 08:34	28°) 45'33	1°33'10
morning rise	10520 Apr 05 07:20	8° Y '33'40		minimum elong	10521 Mar 15 06:39	28°) 51'54	1°32'33
direct	10520 Apr 09 12:00	6° Ƴ 54'54		morning rise	10521 Mar 20 19:08	22°) 48'26	
morning max el	10520 Apr 17 16:30	11° Y 35'24	20°44'56	direct	10521 Mar 24 11:20	21°) 30′50	
desc. node	10520 Apr 26 07:03	21° Y ′58'40		morning max el	10521 Mar 31 17:55	25°) 33'11	19°36'59
	10520 May 02 00:20	0°B		5 5	10521 Apr 04 16:40	0° Υ	
morning set	10520 May 17 09:37	23° 8 08'53		desc. node	10521 Apr 13 03:50	11° Y ′39'56	
. 8	10520 May 21 18:18	0°II		greatest brilliancy	10521 Apr 13 10:44	12° Y °05'14	-0.7m
max. Earth dist.	10520 May 25 16:47	6° Ⅱ 18'22	1.43248 AU	· ·	10521 Apr 25 07:27	0°8	
				morning set	10521 Apr 26 08:30	1° 8 36'17	
superior conj	10520 Jun 01 11:00	17° Ⅲ 26'30	-2°03'06	max. Earth dist.	10521 May 08 05:14	20° 8 06'05	1.44722 AU
minimum elong	10520 Jun 01 16:30	17° Ⅱ 49'37	2°03'16		,		
Č	10520 Jun 08 18:55	0° ©		superior conj	10521 May 12 16:48	27° 8 14'43	-2°13'02
evening rise	10520 Jun 13 12:49	8° 5 21'18		minimum elong	10521 May 12 17:06	27° 8 15'57	2°13'27
asc. node	10520 Jun 19 09:19	18° © 38'26		C	10521 May 14 09:50	$\Pi^{\circ}0$	
	10520 Jun 26 13:04	$0^{\circ}\Omega$		evening rise	10521 May 26 12:11	19° Ⅲ 59'14	
evening max el	10520 Jun 30 07:19	4° Ω 29'38	18°04'21	C	10521 Jun 01 11:14	0° ©	
retrograde	10520 Jul 06 20:54	7° Ω 52'15		asc. node	10521 Jun 06 06:21	7° 5 346'29	
evening set	10520 Jul 09 10:35	7° Ω 20'55		evening max el	10521 Jun 13 21:10	17° © 53'06	18°12'19
inferior conj	10520 Jul 16 00:23	2° Ω 18'57	2°00'10	retrograde	10521 Jun 20 05:51	21°©14'38	
minimum elong	10520 Jul 16 03:09	2° Ω 12'05	1°58'54	evening set	10521 Jun 23 03:29	20° © 29'57	
Č	10520 Jul 18 08:31	30°Rூ		inferior conj	10521 Jun 29 04:19	15° © 09'58	2°44'43
min. Earth dist.	10520 Jul 19 03:04	29°515'40	0.61309 AU	minimum elong	10521 Jun 29 06:42	15° © 03'18	2°43'43
morning rise	10520 Jul 22 17:12	26°518'38		min. Earth dist.	10521 Jul 01 18:43	12° © 17'12	0.63494 AU
desc. node	10520 Jul 23 06:32	25°956'58		morning rise	10521 Jul 05 08:22	8°956'04	
direct	10520 Jul 29 08:47	24° © 02'51		desc. node	10521 Jul 10 03:40	6° © 32'50	
	10520 Aug 10 10:23	$0^{\circ}\Omega$		direct	10521 Jul 12 01:21	6° 5 20'47	
morning max el	10520 Aug 12 14:38	2° Ω 03'11	27°56'29	morning max el	10521 Jul 25 23:06	14°523'20	27°44'54
	10520 Sep 02 02:01	0° m)			10521 Aug 07 14:39	$0^{\circ}\Omega$	
morning set	10520 Sep 14 20:44	23° m 56'22			10521 Aug 25 16:48	0° m	
asc. node	10520 Sep 15 09:27	25° m/02'14		morning set	10521 Aug 29 16:15	7° m/44'30	
	10520 Sep 17 18:00	0∘ ⊽		asc. node	10521 Sep 02 06:16	15° m 04'17	
max. Earth dist.	10520 Sep 20 14:45	6° ₽ 11'59	1.31730 AU	max. Earth dist.	10521 Sep 03 16:34	18° m 04'38	1.32515 AU
	<u>.</u>				<u>.</u>	-	
superior conj	10520 Sep 22 05:18	9° ≏ 43'45	1°03'24	superior conj	10521 Sep 06 12:29	24° Mp 08'26	0°41'13
minimum elong	10520 Sep 22 03:04	9° م 31'29	1°03'04	minimum elong	10521 Sep 06 10:42	23° m 58'44	0°40'45
evening rise	10520 Sep 28 23:09	24° ≏ 32'25		, and the second	10521 Sep 09 05:10	0∘ <u>⊽</u>	
Č	10520 Oct 01 13:06	0°M		evening rise	10521 Sep 13 10:37	9° ഫ 09'38	
desc. node	10520 Oct 19 04:14	29°M54'34		-	10521 Sep 24 03:02	0° M	
	10520 Oct 19 05:57	0° ∡ ¹		desc. node	10521 Oct 06 01:29	16°M15'08	
evening max el	10520 Oct 25 02:29	6° ∡ ³31'56	24°57'10	evening max el	10521 Oct 06 13:18	16°M44'12	23°18'23
retrograde	10520 Nov 07 22:35	13° ∡ ′28'54		retrograde	10521 Oct 19 22:56	23°M24'53	
-				-		-	

evening set	10521 Oct 24 03:55	22°M46'23			10522 Sep 21 18:23	0° M ₊	
min. Earth dist.	10521 Oct 30 22:59		0.55374 AU	desc. node	10522 Sep 22 22:45	0° M 46'48	
inferior conj	10521 Nov 01 15:02	18°M37'56		retrograde	10522 Sep 30 12:44	3°M05'43	
minimum elong	10521 Nov 01 13:53	18° M 39'37	5°44'50	evening set	10522 Oct 03 08:13	2°M47'48	
morning rise	10521 Nov 10 01:37	14°M46'26			10522 Oct 10 07:09	30° ₹ Ω	
direct	10521 Nov 13 00:03	14°M25'41		inferior conj	10522 Oct 12 09:12	28° ≙ 50'54	-5°08'42
morning max el	10521 Nov 23 21:04	19°MJ34'10	20°31'15	minimum elong	10522 Oct 12 00:42	29° ≏ 02'47	5°06'51
asc. node	10521 Nov 29 06:38	25°M52'21		min. Earth dist.	10522 Oct 12 06:09	28° ≏ 55'09	0.54651 AU
	10521 Dec 02 01:20	0° ∡ ¹		morning rise	10522 Oct 20 18:18	25° ≏ 02'38	
morning set	10521 Dec 12 16:21	19° ⋠ 52'39		direct	10522 Oct 24 09:53	24° ≙ 33'41	
	10521 Dec 17 13:42	8°0			10522 Nov 05 07:23	0° M ₊	
				morning max el	10522 Nov 05 18:33	0°M25'43	22°05'50
superior conj	10521 Dec 20 04:33	5° る 22'10	1°26'51	asc. node	10522 Nov 16 03:35	13°ML48'32	
minimum elong	10521 Dec 20 06:52	5°₹33'56	1°27'09		10522 Nov 24 20:48	0° ⊁	
max. Earth dist.	10521 Dec 25 11:25	15° ⋜ 50'51	1.36221 AU	morning set	10522 Nov 27 02:42	4° ∡ ³39'54	
evening rise	10521 Dec 29 08:23	23° පි 08'15		Ü			
desc. node	10522 Jan 01 23:59	29° る 41'24		superior conj	10522 Dec 04 05:06	19° ∡ ¹45'36	1°36'44
	10522 Jan 02 04:14	0° ≈		minimum elong	10522 Dec 04 06:17	19° ∡ ′51'49	1°37'11
	10522 Jan 21 13:38	0° ₩		max. Earth dist.	10522 Dec 08 01:24	27° х 44'43	1.34390 AU
evening max el	10522 Feb 02 21:11	14°) 33'06	26°03'11	max. Darm dist.	10522 Dec 09 04:08	ੂ 0°ਤ	1.5 1570 110
retrograde	10522 Feb 15 12:49	21°) (45'27	20 03 11	evening rise	10522 Dec 12 10:34	6° පි 26'31	
evening set	10522 Feb 21 16:09	19°) 15'42		desc. node	10522 Dec 12 10:54 10522 Dec 19 20:59	20°පි03'37	
asc. node	10522 Feb 21 10:09 10522 Feb 25 05:22	15° X 36'17		desc. node	10522 Dec 19 20:39 10522 Dec 25 20:36	20 3 03 37 0° ≈	
min. Earth dist.	10522 Feb 25 03:22 10522 Feb 25 21:37	13 X 30 17 14° X 47'07	0.67034 AU	avanina may al	10523 Jan 16 10:45	0 ≈ 28°≈14'09	26°56'32
	10522 Feb 23 21.37 10522 Feb 27 11:36			evening max el	10523 Jan 18 08:52	28 ≈ 14 09 0° H	20 30 32
inferior conj		12°) 48′57	0°43'42				
minimum elong	10522 Feb 27 10:31	12° ¥ 52'19	0°43'29	retrograde	10523 Jan 29 16:53	5°) ₹35'39	
morning rise	10522 Mar 05 05:33	7° ₩ 01'16		evening set	10523 Feb 05 06:57	3° 米 01'44	
direct	10522 Mar 08 10:30	6°) €02'42			10523 Feb 08 11:39	30°R≈	
morning max el	10522 Mar 15 02:46	9°) 39′22	18°44'33	min. Earth dist.	10523 Feb 09 06:45	29° ≈ 07'16	0.65719 AU
	10522 Mar 29 21:51	0° Υ		inferior conj	10523 Feb 11 08:36	26° ≈ 44'00	
desc. node	10522 Mar 31 00:35	1° Y 43'32		minimum elong	10523 Feb 11 09:01	26° ≈ 42'49	0°14'19
morning set	10522 Apr 05 19:50	10° Y 46′29		transit middle	10523 Feb 11 09:01	26° ≈ 42'49	0°14'19
	10522 Apr 18 03:05	9° 8		transit begin	10523 Feb 11 07:41	26° ≈ 46'40	
max. Earth dist.	10522 Apr 20 22:57	4° 8 25'25	1.45533 AU	transit end	10523 Feb 11 10:21	26° ≈ 38'59	
				asc. node	10523 Feb 12 02:34	25° ≈ 52'38	
superior conj	10522 Apr 22 03:33	6° 8 17'25	-2°03'36	morning rise	10523 Feb 17 12:20	21° ≈ 08′09	
minimum elong	10522 Apr 21 20:34	5° 8 50'06	2°03'29	direct	10523 Feb 20 07:31	20° ≈ 25′28	
evening rise	10522 May 07 11:51	0°耳37′13		morning max el	10523 Feb 26 17:15	23° ≈ 48'38	18°08'40
	10522 May 07 02:35	Π \circ 0			10523 Mar 03 19:41	0° ∀	
greatest brilliancy	10522 May 14 07:26	11° Ⅲ 33'30	-0.9m	morning set	10523 Mar 17 10:39	21° ∺ 20′04	
asc. node	10522 May 24 03:26	26° Ⅲ 24'46		desc. node	10523 Mar 17 21:21	22° ₭ 03'26	
	10522 May 27 00:30	0 \circ \odot			10523 Mar 22 19:30	0° Y	
evening max el	10522 May 28 09:23	1° 5 27'50	18°38'18				
retrograde	10522 Jun 03 22:30	5° 5 02'01		superior conj	10523 Apr 01 10:32	15° Ƴ 17'01	-1°34'52
evening set	10522 Jun 07 04:08	4° © 02'32		minimum elong	10523 Apr 01 01:06	14° Ƴ 39'57	1°34'00
-	10522 Jun 11 12:30	30°R Ⅱ		max. Earth dist.	10523 Apr 03 19:01	18° Ƴ 58'34	1.45599 AU
inferior conj	10522 Jun 12 19:49	28° Ⅱ 25'57	3°09'20		10523 Apr 10 20:39	0°B	
minimum elong	10522 Jun 12 21:10	28° Ⅲ 21'50	3°08'40	evening rise	10523 Apr 17 13:13	10° 8 23'35	
min. Earth dist.	10522 Jun 14 19:23	26° Ⅱ 01'05	0.65387 AU	greatest brilliancy	10523 Apr 29 19:20	29° 8 14'17	-0.7m
morning rise	10522 Jun 18 13:24	22° Ⅱ 06'11			10523 Apr 30 07:31	$\Pi^{\circ}0$	
direct	10522 Jun 25 01:35	19° Ⅱ 22'30		asc. node	10523 May 11 00:35	14° Ⅱ 23'42	
desc. node	10522 Jun 27 00:46	19° Ⅲ 35'43		evening max el	10523 May 11 17:39	15° Ⅱ 08'02	19°21'18
morning max el	10522 Jul 08 09:38	27° Ⅱ 15'02	27°00'21	retrograde	10523 May 18 19:30	19° Ⅱ 07'25	
morning man vi	10522 Jul 10 23:35	0ಂತಿ	27 0021	evening set	10523 May 22 09:32	17° I 52′26	
	10522 Aug 01 06:58	0°N		inferior conj	10523 May 27 19:32	12° Ⅱ 00'51	3°17'57
morning set	10522 Aug 01 00:38 10522 Aug 13 01:47	21° Ω 01'59		minimum elong	10523 May 27 19:41	12° I 100'31	3°17'27
max. Earth dist.	10522 Aug 17 09:27	29° Ω 33'21	1.33802 AU	min. Earth dist.	10523 May 27 15:41 10523 May 29 04:03	10° Ⅱ 14'33	0.66877 AU
man. Latui uist.	-	0° m)	1.33002 AU		10523 May 29 04.03 10523 Jun 02 05:25	10 П 14 33 5° П 40'09	J.000// AU
asa nada	10522 Aug 17 14:43			morning rise			
asc. node	10522 Aug 20 03:07	5°Mp09'56		direct	10523 Jun 08 08:20	2° Ⅱ 58'51	
	10500 4 01 1410	00 m. 13144	0014126	desc. node	10523 Jun 13 21:48	4° Ⅱ 44'40	25950152
superior conj	10522 Aug 21 14:18	8° Mp 13'44	0°14'26	morning max el	10523 Jun 20 20:13	10° Ⅱ 27'16	25°50'52
minimum elong	10522 Aug 21 13:34	8° Mp 09'51	0°14'02		10523 Jul 06 08:09	0° ©	
behind sun begin	10522 Aug 21 10:48	7° m 55'20			10523 Jul 24 21:22	0°N	
behind sun end	10522 Aug 21 16:20	8° m) 24'24		morning set	10523 Jul 26 21:40	3° Ω 39'04	
evening rise	10522 Aug 28 21:09	23° m/41'24		max. Earth dist.	10523 Jul 30 16:02	10° Ω 42'26	1.35565 AU
	10522 Aug 31 22:13	0∘ ⊽				- · · · · -	
evening max el	10522 Sep 18 03:48	26° £ 56'43	21°40'16	superior conj	10523 Aug 05 08:05	21° Ω 52'16	-0°16'11

minimum elong	10523 Aug 05 09:04	21° Ω 57'14	0°16'21	minimum elong	10524 Jul 18 17:51	5° Ω 12'06	0°49'01
asc. node	10523 Aug 06 23:58	25° Ω 14'59		asc. node	10524 Jul 23 20:53	15° Ω 16'00	
	10523 Aug 09 07:25	0° Mp		evening rise	10524 Jul 27 06:34	22° Ω 02'53	
evening rise	10523 Aug 13 04:37	8° Mp 01'15			10524 Jul 31 08:06	0°M)	10012142
	10523 Aug 25 02:47	0° ჲ 7° ჲ 41'17	20017120	evening max el	10524 Aug 12 21:43	19° Mp 12'52	19°12'43
evening max el desc. node	10523 Aug 31 05:51	12° £ 41'17	20°16'20	retrograde	10524 Aug 22 01:15	23° M) 45'43	
retrograde	10523 Sep 09 20:03 10523 Sep 11 01:31	12 2 3938		evening set desc. node	10524 Aug 23 21:34 10524 Aug 26 17:19	23° m/35'23 22° m/42'58	
evening set	10523 Sep 11 01:31 10523 Sep 13 01:16	13 ≅ 03 38 12° £ 53'31		inferior conj	10524 Aug 20 17.19 10524 Sep 01 10:16	19° m) 24'43	1946'30
inferior conj	10523 Sep 13 01:10 10523 Sep 22 02:57	8° £ 55'34	3°30'50	minimum elong	10524 Sep 01 10:10	19° m) 32'34	
minimum elong	10523 Sep 21 17:40	9° ⊆ 09'16	3°36'45	min. Earth dist.	10524 Sep 01 03:34 10524 Sep 04 03:42	17° m) 35'34	0.55979 AU
min. Earth dist.	10523 Sep 23 14:57	8° ₾ 02'31	0.54856 AU	morning rise	10524 Sep 04 05:42 10524 Sep 09 10:41	14° Mp 44'06	0.55717110
morning rise	10523 Sep 30 09:15	4° ユ 49'13	0.5 1050 110	direct	10524 Sep 14 16:25	13° m) 40'49	
direct	10523 Oct 04 19:23	4° £ 07'05		morning max el	10524 Sep 28 19:26	20° m 51'30	25°35'25
morning max el	10523 Oct 18 07:27	10° Ω 41'50	23°52'28		10524 Oct 06 17:25	0ಂ ⊽	
5 5	10523 Nov 01 15:23	0°M₊		asc. node	10524 Oct 19 21:24	21° ≏ 35'08	
asc. node	10523 Nov 03 00:30	2°M26'14			10524 Oct 24 02:06	0° M	
morning set	10523 Nov 11 14:28	19°M28'03		morning set	10524 Oct 26 01:54	4°M12'16	
	10523 Nov 16 11:08	0° ∡ ″					
				superior conj	10524 Nov 01 21:44	19° ™ 10'07	1°36'51
superior conj	10523 Nov 18 11:37	4° ∡ °23′56	1°39'52	minimum elong	10524 Nov 01 20:39	19° M 04'11	1°37'10
minimum elong	10523 Nov 18 11:36	4° ∡ °23'49	1°40'20	max. Earth dist.	10524 Nov 03 03:51	21°M56'09	1.31996 AU
max. Earth dist.	10523 Nov 20 23:14	9° ∡¹ 44'50	1.32961 AU		10524 Nov 06 21:04	0° ∡ ¹	
evening rise	10523 Nov 26 00:42	20° ∡ 15′08		evening rise	10524 Nov 08 23:41	4° ∡ °26′20	
	10523 Dec 01 01:23	5°0		desc. node	10524 Nov 22 15:08	29° ∡ ¹48'52	
desc. node	10523 Dec 06 18:02	10° る 08'32			10524 Nov 22 17:51	5°0	
	10523 Dec 19 21:15	0° ≈		evening max el	10524 Dec 11 08:47	24° る 25'28	27°27'08
evening max el	10523 Dec 29 23:14	11° ≈ 35'32	27°26'37		10524 Dec 18 20:39	0° ≈	
retrograde	10524 Jan 12 14:38	18° ≈ 57'54		retrograde	10524 Dec 25 05:14	1° ≈ 42'48	
evening set	10524 Jan 19 12:28	16° ≈ 26′26			10524 Dec 31 05:25	30°Ŗる	
min. Earth dist.	10524 Jan 23 07:41	13° ≈ 03'49	0.64056 AU	evening set	10525 Jan 01 05:46	29° ろ 22'38	
inferior conj	10524 Jan 25 20:59	10° ≈ 24'08		min. Earth dist.	10525 Jan 04 22:51	26° ⋜ 26'37	0.62113 AU
minimum elong	10524 Jan 25 23:34	10°≈17'25	1°20'19	inferior conj	10525 Jan 07 21:45	23°₹42'08	
asc. node	10524 Jan 29 23:46	6°≈32'39		minimum elong	10525 Jan 08 02:56	23° る 30'04	2°32'50
morning rise	10524 Feb 01 12:36	5°≈02'47		morning rise	10525 Jan 15 02:37	18°る38'11	
direct	10524 Feb 03 23:44	4°≈32'21	17040152	asc. node	10525 Jan 15 20:57	18° る 25'47	
morning max el	10524 Feb 10 10:38	7°≈53'04	17°49'52	direct	10525 Jan 17 08:02	18° ට 16'13 21°ට 44'10	17040144
	10524 Feb 25 07:32	0°) 3°) 15'34		morning max el	10525 Jan 24 03:43 10525 Jan 30 11:42		17°48'44
morning set	10524 Feb 27 05:37	1.1		morning set	10525 Jan 30 11:42 10525 Feb 08 22:58	0° ≈ 16° ≈ 14'48	
desc. node	10524 Mar 03 18:07	12°) 34′26		morning set	10525 Feb 08 22.38 10525 Feb 16 18:08	10 ≈1448 0°) (
superior conj	10524 Mar 11 07:49	25°) €01'37	0°54'27	desc. node	10525 Feb 18 14:52	3° ∺ 12′29	
minimum elong	10524 Mar 11 01:54	24° H 37'41		desc. flode	10323 1 00 16 14.32	3 1 12 29	
minimum ciong	10524 Mar 14 10:07	0° Υ	0 33 32	superior conj	10525 Feb 20 05:06	5° ¥ 55'10	-0°12'02
max. Earth dist.	10524 Mar 16 14:11	3°Υ26'55	1.44924 AU	minimum elong	10525 Feb 20 03:58	5° ¥ 50′23	
evening rise	10524 Mar 27 01:33	19° Υ 44'58	1.11)21110	behind sun begin	10525 Feb 19 21:51	5° ¥ 24'27	0 11 30
e vennig 119e	10524 Apr 02 19:20	0°8		behind sun end	10525 Feb 20 10:05	6° ¥ 16'15	
evening max el	10524 Apr 23 20:32		20°19'38	max. Earth dist.	10525 Feb 27 06:00	17°) 34'21	1.43595 AU
C	10524 Apr 25 01:26	0°II		evening rise	10525 Mar 06 16:05	29° ¥ 20′11	
asc. node	10524 Apr 26 21:46	1° Ⅱ 31'11			10525 Mar 07 02:20	0° Υ	
retrograde	10524 May 01 18:16	3° Ⅱ 25′07			10525 Mar 27 11:52	0°B	
evening set	10524 May 05 17:26	1° Ⅱ 54'29		evening max el	10525 Apr 06 17:50	12° 8 33'29	21°30'17
	10524 May 07 17:59	30° ₹ 8		asc. node	10525 Apr 13 18:59	17° 8 31'57	
inferior conj	10524 May 11 00:37	25° 8 49'41	3°13'30	retrograde	10525 Apr 15 16:35	17° 8 49'38	
minimum elong	10524 May 10 23:43	25° 8 52'45	3°13'01	evening set	10525 Apr 20 01:55	16° 8 03'32	
min. Earth dist.	10524 May 11 18:55	24° 8 47'06	0.67915 AU	inferior conj	10525 Apr 25 08:43	9° 8 47'42	2°57'55
morning rise	10524 May 16 05:45	19° 8 31'13		minimum elong	10525 Apr 25 07:02	9° 8 53'35	2°57'20
direct	10524 May 21 20:47	17° 8 01'06		min. Earth dist.	10525 Apr 25 13:48	9° 8 29'59	0.68500 AU
desc. node	10524 May 30 18:47	21° 8 30'09		morning rise	10525 Apr 30 11:56	3° 8 33'29	
morning max el	10524 Jun 02 05:58		24°26'13	direct	10525 May 05 13:47	1° 8 20'51	
	10524 Jun 07 17:29	Π °0		morning max el	10525 May 15 16:06	7° 8 20'06	22°56'17
	10524 Jun 28 17:37	0°©		desc. node	10525 May 17 15:40	9° 8 25'50	
morning set	10524 Jul 07 23:17	15°524'22	1.27/04 177		10525 Jun 02 06:57	0°II	
max. Earth dist.	10524 Jul 11 14:32	21° © 51'29	1.37694 AU	morning set	10525 Jun 19 01:16	26° Ⅱ 03'23	
	10524 Jul 16 00:25	$0 {\circ} \Omega$		p a v	10525 Jun 21 09:54	0.00 0.00	1 2000 (177
gunorier cor-	10524 Int. 10 14:27	4° Ω 56'31	0.040,00	max. Earth dist.	10525 Jun 23 11:17	5~ 20 30′02	1.39986 AU
superior conj	10524 Jul 18 14:37	4 063031	-U 47 U7				

aumanian aani	10525 Jul 01 05:47	17° © 16'09	1921/50		10526 May 26, 12,22	0°Щ	
superior conj minimum elong	10525 Jul 01 05:47 10525 Jul 01 11:16	17°9516'09 17°9541'13		morning set	10526 May 26 12:33 10526 May 30 00:37	0°Щ 5°Щ29'43	
minimum eiong	10525 Jul 08 01:09	1/ 304113 0°Ω	1 21 43	max. Earth dist.	10526 May 30 00.37 10526 Jun 05 13:07	3 П 2943 16° П 01'39	1.42164 AU
evening rise	10525 Jul 10 23:50	5° Ω 37'13		max. Earth dist.	10320 Juli 03 13.07	10 110139	1.42104 AU
asc. node	10525 Jul 10 17:47	5° Ω 08'22		superior conj	10526 Jun 13 01:04	28° Ⅱ 41'05	1°50'40
asc. Houc	10525 Jul 25 15:49	0° m)		minimum elong	10526 Jun 13 07:28	28 ∏ 41 03 29° ∏ 08'49	
evening max el	10525 Jul 27 00:42	1°Mp27'46	18°30'19	minimum clong	10526 Jun 13 19:16	0°95	1 30 30
retrograde	10525 Aug 03 19:09	5° m 21'13	10 30 17	evening rise	10526 Jun 24 04:31	18° 9 34'50	
evening set	10525 Aug 05 19:09 10525 Aug 05 20:47	5° m ₀ 05'31		asc. node	10526 Jun 27 14:44	24°9547'49	
inferior conj	10525 Aug 03 20:47 10525 Aug 13 14:25	0° m ₀ 35'19	0°00'07	asc. node	10526 Jun 30 13:08	0°Ω	
minimum elong	10525 Aug 13 14:25	0° mg 35'20	0°00'11	evening max el	10526 Jul 10 10:49	14° Ω 16'34	18°08'15
transit middle	10525 Aug 13 14:25	0° mg 35'20	0°00'11	retrograde	10526 Jul 17 07:33	17°Ω45'56	10 00 13
transit begin	10525 Aug 13 10:50	0° mp 42'21	0 00 11	evening set	10526 Jul 19 16:51	17° Ω 21'03	
transit end	10525 Aug 13 10:30 10525 Aug 13 18:00	0° my 28'19		inferior conj	10526 Jul 26 15:51	$12^{\circ}\Omega 30'03$	1°23'46
desc. node	10525 Aug 13 14:34	0° mg 35'01		minimum elong	10526 Jul 26 18:14	$12^{\circ}\Omega 24'36$	1°22'33
desc. node	10525 Aug 15 14:54 10525 Aug 14 08:23	0 11/3301 30°RΩ		min. Earth dist.	10526 Jul 29 22:57	9° Ω 30'59	0.60004 AU
min. Earth dist.	10525 Aug 14 08:25 10525 Aug 16 21:46	28° Ω 01'09	0.57804 AU	desc. node	10526 Jul 31 11:46	8° Ω 15'03	0.00004 AU
morning rise	10525 Aug 10 21:40 10525 Aug 21 04:30	$25^{\circ}\Omega 17'50$	0.57804 AU	morning rise	10526 Aug 02 16:39	6°Ω42'33	
direct	-	23° Ω 46'36		direct	10526 Aug 02 16.39 10526 Aug 09 04:23	4°Ω42'07	
direct	10525 Aug 27 04:03 10525 Sep 09 00:43	23 3 2 40 30			U	4874207 $12^{\circ}\Omega 35'18$	27946105
morning max el	10525 Sep 10 12:16	1°Mg 22'59	26957120	morning max el	10526 Aug 23 12:14 10526 Sep 06 07:04	0°m)	27 40 03
morning max er	•	0° ⊽	20 37 30		=	0∘ ত الأس	
asc. node	10525 Sep 30 22:06 10525 Oct 06 18:14	0 <u>≈</u> 11° Ω 06'37		asc. node	10526 Sep 23 04:28	0° £ 54'09	
	10525 Oct 10 11:22	11 ≥ 06 3 / 18° ⊆ 47'39			10526 Sep 23 15:01 10526 Sep 24 17:05	0 22 3409 3° Ω 09'21	
morning set	10525 Oct 10 11.22 10525 Oct 15 14:40	0°M		morning set max. Earth dist.	10526 Sep 24 17.05 10526 Sep 30 21:46	3 2 209 21 16° 2 33'04	1 21512 AII
	10323 Oct 13 14.40	UIIL		max. Earm dist.	10326 Sep 30 21.46	10 == 33 04	1.31512 AU
superior conj	10525 Oct 17 09:24	3°M57'39	1°28'06	superior conj	10526 Oct 01 20:47	18° ≏ 40'41	1°13'56
minimum elong	10525 Oct 17 07:33	3°M47'24	1°28'10	minimum elong	10526 Oct 01 18:34	18° ≏ 28'21	1°13'44
max. Earth dist.	10525 Oct 17 12:32	4° ጤ 15'09	1.31510 AU		10526 Oct 06 23:37	0° M	
evening rise	10525 Oct 24 04:53	18° M 52'51		evening rise	10526 Oct 08 14:04	3°M28'09	
	10525 Oct 29 15:52	0° ∡ ¹			10526 Oct 22 14:05	0° ∡ ¹	
desc. node	10525 Nov 09 12:17	18° ∡ 54'48		desc. node	10526 Oct 27 09:29	7° ∡ 12'22	
	10525 Nov 17 12:37	0° ප		evening max el	10526 Nov 05 09:19	17° ∡ ¹47'25	25°47'32
evening max el	10525 Nov 23 13:01	6° る 32'25	26°53'58	retrograde	10526 Nov 19 06:50	24° ∡ °48'36	
retrograde	10525 Dec 07 11:19	13° る 41'40		evening set	10526 Nov 25 11:43	23° ∡ 18'48	
evening set	10525 Dec 14 07:06	11° る 42'32		min. Earth dist.	10526 Nov 29 21:50	20° х 42′42	0.57938 AU
min. Earth dist.	10525 Dec 18 03:27	9° る 03'44	0.60011 AU	inferior conj	10526 Dec 02 22:39	18° ∡ ³34'28	-4°57'53
inferior conj	10525 Dec 21 07:29	6° る 29'14	-3°50'35	minimum elong	10526 Dec 03 06:18	18° ∡ °20'55	4°55'43
minimum elong	10525 Dec 21 14:57	6° る 14'00	3°47'39	morning rise	10526 Dec 11 03:17	14° ∡ °13′22	
morning rise	10525 Dec 29 01:29	1° る 45'34		direct	10526 Dec 13 08:58	13° ∡ 57'34	
direct	10525 Dec 31 04:34	1° る 28'22		asc. node	10526 Dec 20 15:05	16° ₹ 56′09	
asc. node	10526 Jan 02 18:03	1° る 54'24		morning max el	10526 Dec 21 22:48	18° ∡ '07'12	18°45'06
morning max el	10526 Jan 07 17:04	5° る 12'42	18°06'34		10526 Dec 30 13:58	0° ろ	
morning set	10526 Jan 23 08:29	29° る 59'31		morning set	10527 Jan 07 05:04	14° る 13'42	
	10526 Jan 23 08:35	0° ≈			10527 Jan 15 08:31	0° ≈	
superior conj	10526 Feb 02 02:43	17° ≈ 57'38	0°25'42	superior conj	10527 Jan 15 20:25	0°≈56'10	0°55'51
minimum elong	10526 Feb 02 04:41	18° ≈ 06'24	0°25'47	minimum elong	10527 Jan 15 23:29	1°≈10'37	
desc. node	10526 Feb 05 11:40	23° ≈ 54'20		max. Earth dist.	10527 Jan 23 01:29	14° ≈ 04'56	1.39618 AU
	10526 Feb 09 01:04	0°) €		desc. node	10527 Jan 23 08:31	14° ≈ 35'49	
max. Earth dist.	10526 Feb 09 17:44	1°) € 10'04	1.41760 AU	evening rise	10527 Jan 27 01:09	20° ≈ 57'19	
evening rise	10526 Feb 14 22:05	9°) (40'55	-	<i>U</i> -	10527 Feb 01 13:05	0°) €	
C	10526 Feb 28 03:50	0° Υ			10527 Feb 22 06:08	$0^{\circ}\Upsilon$	
evening max el	10526 Mar 20 10:45	26° Ƴ 19'14	22°48'36	evening max el	10527 Mar 03 00:56	10° Y ′07'28	24°08'53
C	10526 Mar 24 16:21	0°8		retrograde	10527 Mar 14 05:51	16° Ƴ 42'07	
retrograde	10526 Mar 30 12:52	2° 8 17'02		asc. node	10527 Mar 18 13:25	15° Ƴ 15'41	
asc. node	10526 Mar 31 16:12	2° 8 10'45		evening set	10527 Mar 19 14:23	14° Ƴ 27'37	
evening set	10526 Apr 04 09:25	0° 8 16'04		min. Earth dist.	10527 Mar 24 06:38	9° Y ′04'23	0.68346 AU
Č	10526 Apr 04 16:47	30°RƳ		inferior conj	10527 Mar 25 02:05	7° Υ ′58'40	1°57'26
inferior conj	10526 Apr 09 17:50	23° Y ′51'54	2°32'23	minimum elong	10527 Mar 24 23:56	8° Y 05'55	1°56'45
minimum elong	10526 Apr 09 15:42	23° Y ′59'17	2°31'41	morning rise	10527 Mar 30 09:33	1° Y 57'11	
min. Earth dist.	10526 Apr 09 10:26	24° Y °17'35	0.68642 AU	direct	10527 Apr 03 08:52	0° Υ 27'32	
morning rise	10526 Apr 14 21:52	17° Y '43'26		morning max el	10527 Apr 11 02:59	4° Υ 49'47	20°14'15
direct	10526 Apr 19 10:16	15° Υ 51'49		desc. node	10527 Apr 21 09:18	17° Y °37'06	-
morning max el	10526 Apr 28 06:04	20° Y ′58'49	21°30'04		10527 Apr 29 21:16	0°8	
desc. node	10526 May 04 12:30	28° Y °12'52		morning set	10527 May 09 03:14	14° 8 03'21	
	10526 May 05 21:40	0°8		max. Earth dist.	10527 May 18 22:17	29° 8 26'14	1.43952 AU
	, =	_			,		

	10527 May 19 06:43	0°Щ		greatest brilliancy desc. node	10528 Apr 06 07:31 10528 Apr 07 06:06	6° Υ '03'58 7° Υ '28'40	-0.7m
superior conj	10527 May 24 20:38	9° Ⅱ 03'35	-2°09'24	morning set	10528 Apr 17 04:36	22° Ƴ 41'14	
minimum elong	10527 May 25 00:30	9° Ⅱ 19′27	2°09'44		10528 Apr 21 21:57	0°B	
	10527 Jun 06 05:34	0 \circ \odot		max. Earth dist.	10528 Apr 30 13:20	13° 8 29'34	1.45153 AU
evening rise	10527 Jun 06 15:57	0°ഇ44'56					
asc. node	10527 Jun 14 11:44	14° © 09'10		superior conj	10528 May 03 17:00	18° 8 28'11	-2°11'34
evening max el	10527 Jun 24 00:12	27° © 29'35	18°05'30	minimum elong	10528 May 03 14:05	18° 8 16'39	2°11'52
	10527 Jun 27 06:49	0 $^{\circ}$ Ω			10528 May 10 21:52	Π $\circ 0$	
retrograde	10527 Jun 30 10:29	0° Ω 50′10		evening rise	10528 May 18 05:31	11° Ⅱ 57'33	
evening set	10527 Jul 03 03:35	0° Ω 13'19			10528 May 29 07:46	0 \circ	
	10527 Jul 03 14:40	30° ₹ 5		asc. node	10528 May 31 08:48	3° 5 05'27	
inferior conj	10527 Jul 09 11:20	25° © 03'10	2°21'47	evening max el	10528 Jun 06 13:35	10° © 57'57	18°21'12
minimum elong	10527 Jul 09 14:04	24° © 56'00	2°20'36	retrograde	10528 Jun 12 23:16	14° © 23'43	
min. Earth dist.	10527 Jul 12 09:09	22° © 02'09	0.62257 AU	evening set	10528 Jun 16 00:10	13° © 32'59	
morning rise	10527 Jul 15 22:30	18°955'55		inferior conj	10528 Jun 21 20:39	8°905'38	2°57'23
desc. node	10527 Jul 18 08:56	17°529'19		minimum elong	10528 Jun 21 22:38	7° © 59'51	2°56'32
direct	10527 Jul 22 15:21	16°931'01	25056112	min. Earth dist.	10528 Jun 24 04:52	5°\$22'53	0.64334 AU
morning max el	10527 Aug 05 18:30	24°533'12	27°56'13	morning rise	10528 Jun 27 19:52	1°548'10	
	10527 Aug 10 17:04	0° N		J:4	10528 Jun 30 15:35	30°RⅡ 29°Ⅱ07'58	
mamina sat	10527 Aug 30 16:52 10527 Sep 08 17:03	0° ጦ 17° ጦ 12'11		direct desc. node	10528 Jul 04 11:17 10528 Jul 04 06:04	29° П 0/'38 29° П 08'08	
morning set asc. node	10527 Sep 08 17:03 10527 Sep 10 11:49	20° Mp 52'34		desc. node	10528 Jul 04 06.04 10528 Jul 08 13:18	29 п 08 08	
max. Earth dist.	10527 Sep 10 11.49 10527 Sep 14 03:36	20 m/32 34 28° m/39'11	1.32002 AU	morning max el	10528 Jul 18 04:22	0 ৩ 7°©08'44	27°20'41
max. Earth dist.	10527 Sep 14 03:30	0° ⊽	1.32002 AU	morning max ci	10528 Aug 04 17:59	0°Ω	27 29 41
	10327 Бер 14 10.31	-			10528 Aug 04 17:53 10528 Aug 21 22:53	0°m)	
superior conj	10527 Sep 16 06:05	3° ₽ 14'02	0°54'36	morning set	10528 Aug 22 08:43	ربان 0° الله 48'17	
minimum elong	10527 Sep 16 03:58	3° ⊆ 02'27	0°54'12	max. Earth dist.	10528 Aug 27 02:00	10° m) 21'59	1.32994 AU
evening rise	10527 Sep 23 01:16	18° Ω 06'42	0 0 2	asc. node	10528 Aug 27 08:38	10° m 56'29	1.5255 1110
	10527 Sep 28 19:41	0°M					
desc. node	10527 Oct 14 06:43	24°M23'03		superior conj	10528 Aug 30 11:14	17° m) 30'48	0°30'23
evening max el	10527 Oct 17 21:56	28°M15'41	24°16'10	minimum elong	10528 Aug 30 09:48	17° m) 23'11	0°29'56
C	10527 Oct 19 20:14	0° ∡ ″		C	10528 Sep 05 06:15	0∘ ⊽	
retrograde	10527 Oct 31 14:36	5° ∡ 07'16		evening rise	10528 Sep 06 12:32	2° - 41'51	
evening set	10527 Nov 05 16:03	4° √ 10'52		-	10528 Sep 21 10:17	0° M	
min. Earth dist.	10527 Nov 11 08:46	1° ∡ 18'34	0.56153 AU	evening max el	10528 Sep 28 08:55	8°M22'33	22°35'39
	10527 Nov 13 11:39	30°RM		desc. node	10528 Sep 30 03:59	10°ML00'58	
inferior conj	10527 Nov 13 17:19	29°M51'12	-5°40'22	retrograde	10528 Oct 11 10:22	14°M52'50	
minimum elong	10527 Nov 13 20:43	29°M45'57	5°39'42	evening set	10528 Oct 15 00:01	14°M24'52	
morning rise	10527 Nov 22 03:29	25°M51'29		min. Earth dist.	10528 Oct 22 16:29	10°M58'21	0.54955 AU
direct	10527 Nov 24 17:58	25°M33'42		inferior conj	10528 Oct 23 17:56	10°M22'12	
	10527 Dec 04 09:42	0° ∡		minimum elong	10528 Oct 23 13:14	10° M 28′54	5°36'15
morning max el	10527 Dec 04 17:21	0° ∡ 17'57 −	19°45'59	morning rise	10528 Nov 01 04:08	6° ™ 34'25	
asc. node	10527 Dec 07 12:05	3° ∡ 18'12		direct	10528 Nov 04 09:15	6°M10'52	21000110
morning set	10527 Dec 22 09:03	28° ∡ ¹46'38		morning max el	10528 Nov 15 22:23	11°M37'50	21°09'18
	10527 Dec 22 23:33	0°₹		asc. node	10528 Nov 23 09:04	20°M44'04	
	10527 Dec 30 05:18	14° る 37'02	1017147		10528 Nov 28 21:58	0° ⊀ ⁷ 13° ≮ ⁷ 30'04	
superior conj minimum elong	10527 Dec 30 03:18 10527 Dec 30 08:07	14 3 3702	1°17'47 1°17'58	morning set	10528 Dec 05 17:41	13 × 30 04	
max. Earth dist.	10527 Dec 30 08.07 10528 Jan 05 07:37	14 83037 26° 8 20'30	1.37418 AU	superior conj	10528 Dec 13 01:07	28° х 47'43	1°31'53
max. Earth dist.	10528 Jan 07 07:20	20 3 20 30 0° ≈	1.57416 AU	minimum elong	10528 Dec 13 01:07 10528 Dec 13 02:59		1°32'16
evening rise	10528 Jan 09 01:00	3°≈07'33		minimum clong	10528 Dec 13 15:09	0°る。	1 32 10
desc. node	10528 Jan 10 05:25	5°≈13'17		max. Earth dist.	10528 Dec 17 17:11		1.35396 AU
acse. noue	10528 Jan 25 15:01	0° ∀		evening rise	10528 Dec 21 18:38	16° る 03'42	1.55550110
evening max el	10528 Feb 13 14:10		25°24'29	desc. node	10528 Dec 27 02:24	25° る 42'29	
<i>8</i>	10528 Feb 21 15:45	$0^{\circ}\Upsilon$			10528 Dec 29 14:19	0° ≈	
retrograde	10528 Feb 25 18:38	0° Υ 59'21			10529 Jan 19 03:07	0° ∀	
-	10528 Feb 29 13:28	30° ₹ ₩		evening max el	10529 Jan 26 03:35	7°) 43′29	26°28'14
evening set	10528 Mar 02 15:18	28°) 33′51		retrograde	10529 Feb 08 02:22	15° ₩ 01'51	
asc. node	10528 Mar 04 10:39	26°) 49′26		evening set	10529 Feb 14 10:25	12°) 29′30	
min. Earth dist.	10528 Mar 07 00:17	23°)(45'34	0.67629 AU	min. Earth dist.	10529 Feb 18 13:17	8°) 15′33	0.66516 AU
inferior conj	10528 Mar 08 07:36	22°) €04'35	1°13'18	asc. node	10529 Feb 19 07:53	7° ∺ 19'49	
minimum elong	10528 Mar 08 05:58	22°) €09'53	1°12'49	inferior conj	10529 Feb 20 08:24	6°) €05'30	0°20'00
morning rise	10528 Mar 13 21:03	16°) 11′31		minimum elong	10529 Feb 20 07:52	6° 米 07'07	0°20'01
direct	10528 Mar 17 08:15	15° 米 02′30		morning rise	10529 Feb 26 06:14	0° ∺ 22'37	
morning max el	10528 Mar 24 07:49	18°) 52'14	19°12'40		10529 Feb 27 00:37	30° R ≈	
	10528 Apr 02 04:17	0 ° Υ		direct	10529 Mar 01 06:43	29° ≈ 31′26	

	10529 Mar 03 13:56	0° ∀		direct	10530 Feb 13 02:06	13° ≈ 48′18	
morning max el	10529 Mar 07 19:27	3° ∺ 01'16	18°27'11	morning max el	10530 Feb 19 11:29	17° ≈ 09'27	17°58'28
desc. node	10529 Mar 25 02:52	27°) 40′12			10530 Feb 28 22:31	0° ∀	
	10529 Mar 26 14:10	0 ° $\mathbf{\Upsilon}$		morning set	10530 Mar 09 06:06	13° ¥ 35'34	
morning set	10529 Mar 28 02:46	2° Y ′25'02		desc. node	10530 Mar 11 23:37	18° ∺ 05'30	
					10530 Mar 19 07:20	0° Y	
superior conj	10529 Apr 12 23:59	27° Y ′24'29	-1°53'27				
minimum elong	10529 Apr 12 15:05	26° Ƴ 49'41	1°52'59	superior conj	10530 Mar 23 11:10	6° Ƴ 38'34	-1°18'34
max. Earth dist.	10529 Apr 13 07:58	27° Y ′55'42	1.45649 AU	minimum elong	10530 Mar 23 02:44	6° Y 05′08	1°17'34
	10529 Apr 14 15:46	$_{0\circ}$ 8		max. Earth dist.	10530 Mar 27 03:45	12° Y 28′13	1.45402 AU
evening rise	10529 Apr 28 19:10	22° 8 11'54			10530 Apr 07 10:29	0°8	
	10529 May 03 17:42	$\Pi^{\circ}0$		evening rise	10530 Apr 08 13:19	1° 8 43'19	
greatest brilliancy	10529 May 08 05:59	7° Ⅲ 04'29	-0.8m	greatest brilliancy	10530 Apr 22 14:44	23° 8 02'47	-0.6m
asc. node	10529 May 18 05:55	21° Ⅲ 28′53			10530 Apr 27 11:33	$\Pi^{\circ}0$	
evening max el	10529 May 21 00:23	24° Ⅲ 36′04	18°54'36	evening max el	10530 May 04 06:34	8° Ⅱ 18′04	19°44'25
retrograde	10529 May 27 18:07	28° Ⅱ 19'42		asc. node	10530 May 05 03:06	9° Ⅱ 07'58	
evening set	10529 May 31 03:09	27° Ⅱ 13'53		retrograde	10530 May 11 16:02	12° Ⅲ 31′05	
inferior conj	10529 Jun 05 16:04	21° Ⅲ 30′56	3°14'44	evening set	10530 May 15 09:52	11° Ⅱ 09'29	
minimum elong	10529 Jun 05 16:54	21° Ⅲ 28′18	3°14'09	inferior conj	10530 May 20 18:22	5° Ⅱ 12'19	3°17'28
min. Earth dist.	10529 Jun 07 09:16	19° Ⅲ 21'10	0.66073 AU	minimum elong	10530 May 20 18:03	5° Ⅱ 13'22	3°17'00
morning rise	10529 Jun 11 05:59	15° Ⅱ 10′07		min. Earth dist.	10530 May 21 20:47	3° Ⅱ 44'07	0.67383 AU
direct	10529 Jun 17 14:43	12° Ⅲ 25'54			10530 May 24 22:24	30° ₹ 8	
desc. node	10529 Jun 21 03:08	13° Ⅲ 08′23		morning rise	10530 May 26 01:54	28° 8 52'26	
morning max el	10529 Jun 30 15:07	20° Ⅲ 10'47	26°33'12	direct	10530 Jun 01 00:09	26° 8 14'42	
	10529 Jul 09 01:05	0°©		desc. node	10530 Jun 08 00:08	29° 8 01'54	
	10529 Jul 28 20:38	$0^{\circ}\Omega$			10530 Jun 09 06:28	$\Pi^{\circ}0$	
morning set	10529 Aug 05 12:56	13° Ω 49'51		morning max el	10530 Jun 13 01:03	3° Ⅲ 27'47	25°15'58
max. Earth dist.	10529 Aug 09 14:06	21° Ω 39′00	1.34494 AU		10530 Jul 03 06:51	0°ಲಾ	
	10529 Aug 13 17:23	o∘ m y		morning set	10530 Jul 19 01:36	26°506'13	
					10530 Jul 21 05:04	$0^{\circ}\Omega$	
superior conj	10529 Aug 14 09:58	1° Mp 25'28	0°01'51	max. Earth dist.	10530 Jul 22 16:23	2° Ω 43'30	1.36440 AU
minimum elong	10529 Aug 14 09:53	1° m/ 25'03	0°01'33				
behind sun begin	10529 Aug 14 04:04	0° m 54'58		superior conj	10530 Jul 28 23:24	14° Ω 50'44	-0°30'00
behind sun end	10529 Aug 14 15:42	1° m 55'11		minimum elong	10530 Jul 29 01:18	15° Ω 00'06	0°30'02
asc. node	10529 Aug 14 05:29	1° m/02'20		asc. node	10530 Aug 01 02:23	21° Ω 06′21	
evening rise	10529 Aug 21 21:59	17° m 08'49			10530 Aug 05 11:19	0° m y	
	10529 Aug 28 08:10	0∘ ⊽		evening rise	10530 Aug 06 03:25	1°Mp21'43	
evening max el	10529 Sep 10 03:43	18° ≏ 45'41	21°02'23	evening max el	10530 Aug 23 11:48	29° m 50'05	19°46'39
desc. node	10529 Sep 17 01:16	23° ₽ 36′27			10530 Aug 23 15:50	0∘ ত	
retrograde	10529 Sep 21 22:05	24° ≏ 35'49		retrograde	10530 Sep 02 13:40	4° ≏ 50'16	
evening set	10529 Sep 24 06:44	24° ≙ 22'41		desc. node	10530 Sep 03 22:30	4° ≙ 45'07	
inferior conj	10529 Oct 03 10:02	20° ₽ 27′21	-4°36'12	evening set	10530 Sep 04 10:36	4° ≏ 40'41	
minimum elong	10529 Oct 03 00:15	20° ₽ 41'12	4°33'33	inferior conj	10530 Sep 13 08:03	0° ჲ 38'45	-2°52'37
min. Earth dist.	10529 Oct 04 00:21	20° ₽ 07'07	0.54617 AU	minimum elong	10530 Sep 13 00:23	0° ჲ 50'34	2°49'52
morning rise	10529 Oct 11 18:03	16° ≏ 33'35			10530 Sep 14 09:05	30°₽, 🅦	
direct	10529 Oct 15 17:23	15° ≏ 59'39		min. Earth dist.	10530 Sep 15 10:25	29° m 21'11	0.55232 AU
morning max el	10529 Oct 28 15:18	22° ₽ 11'10	22°50'29	morning rise	10530 Sep 21 12:24	26° Mp 19'25	
	10529 Nov 04 09:46	0° M		direct	10530 Sep 26 07:11	25° m 29'06	
asc. node	10529 Nov 10 06:00	8° M 59'14			10530 Oct 07 10:00	0∘ ⊽	
morning set	10529 Nov 20 04:49	28°M18'00		morning max el	10530 Oct 10 02:36	2° ≏ 19'50	24°37'50
	10529 Nov 21 00:01	0° ∡ ¹		asc. node	10530 Oct 28 02:54	27° ≏ 51'41	
					10530 Oct 29 06:09	0° M ₊	
superior conj	10529 Nov 27 04:30	13° ∡ 18'19	1°38'50	morning set	10530 Nov 04 16:39	13°ML05'22	
minimum elong	10529 Nov 27 05:10	13° ∡ ¹21'52	1°39'19				
max. Earth dist.	10529 Nov 30 10:16	20° ∡ ¹08'56	1.33727 AU	superior conj	10530 Nov 11 12:48	28° M 00′58	1°39'19
evening rise	10529 Dec 05 02:18	29° ∡ ¹36′09		minimum elong	10530 Nov 11 12:18	27°M58'16	1°39'44
	10529 Dec 05 07:09	0°₹			10530 Nov 12 10:35	0° ∡ ¹	
desc. node	10529 Dec 13 23:24	15° る 58'13		max. Earth dist.	10530 Nov 13 11:27	2° ≯ 15′08	1.32492 AU
	10529 Dec 22 16:43	0° ≈		evening rise	10530 Nov 18 20:34	13° ∡ ³35'53	
evening max el	10530 Jan 08 16:59	21° ≈ 18′19	27°12'42		10530 Nov 27 10:26	0°ප	
retrograde	10530 Jan 22 03:59	28° ≈ 41'18		desc. node	10530 Nov 30 20:28	5° る 54'14	
evening set	10530 Jan 28 21:37	26° ≈ 07'46			10530 Dec 17 21:29	0° ≈	
min. Earth dist.	10530 Feb 01 19:22	22° ≈ 26'57	0.65046 AU	evening max el	10530 Dec 22 04:47	4° ≈ 29'21	27°30'52
inferior conj	10530 Feb 04 02:06	19° ≈ 55'35		retrograde	10531 Jan 04 22:36	11° ≈ 49'15	
minimum elong	10530 Feb 04 03:21	19° ≈ 52'06	0°41'22	evening set	10531 Jan 11 22:20	9° ≈ 21'46	
asc. node	10530 Feb 06 05:07	17° ≈ 39'15		min. Earth dist.	10531 Jan 15 16:22		0.63261 AU
morning rise	10530 Feb 10 10:39	14° ≈ 25′16		inferior conj	10531 Jan 18 09:59	3° ≈ 28′10	-1°52'20

minimum elong	10531 Jan 18 13:38	3° ≈ 19'04	1°50'23	morning rise	10532 Jan 08 15:18	11° る 38'21	
	10531 Jan 22 05:34	30°Ŗる		direct	10532 Jan 10 19:22	11° ⋜ 18'45	
asc. node	10531 Jan 24 02:16	28° ප් 46'29		asc. node	10532 Jan 10 23:23	11° る 18'52	
morning rise	10531 Jan 25 07:05	28° る 13'34		morning max el	10532 Jan 17 21:00	14°る52'09	17°53'59
direct	10531 Jan 27 15:34	27° る 47'03			10532 Jan 28 07:14	0° ≈	
	10531 Feb 01 22:13	0° ≈		morning set	10532 Feb 02 12:22	9° ≈ 22'16	
morning max el	10531 Feb 03 05:06	1° ≈ 09'34	17°47'07	_			
morning set	10531 Feb 19 11:29	26° ≈ 01'35		superior conj	10532 Feb 13 02:07	28° ≈ 15'44	0°04'48
	10531 Feb 21 18:36	0° ∀		minimum elong	10532 Feb 13 02:33	28° ≈ 17'39	0°05'02
desc. node	10531 Feb 26 20:24	8°) 40′29		behind sun begin	10532 Feb 12 18:38	27° ≈ 43'18	
				behind sun end	10532 Feb 13 10:29	28° ≈ 51'55	
superior conj	10531 Mar 03 18:06	16° ¥ 51′25	-0°36'13	desc. node	10532 Feb 13 17:11	29° ≈ 20'50	
minimum elong	10531 Mar 03 14:19	16° ¥ 35'49	0°35'29		10532 Feb 14 02:17	0° ∀	
max. Earth dist.	10531 Mar 09 22:17	26° ¥ 51'53	1.44443 AU	max. Earth dist.	10532 Feb 20 12:48	10°) 48′43	1.42868 AU
	10531 Mar 11 21:39	0° Y		evening rise	10532 Feb 26 20:38	20° 升 58'40	
evening rise	10531 Mar 19 00:46	11° Y ′06'47		C	10532 Mar 03 16:35	0 ° Υ	
C	10531 Mar 31 14:19	0° ႘			10532 Mar 24 23:59	0° ႘	
evening max el	10531 Apr 17 07:06	22° 8 01'10	20°48'21	evening max el	10532 Mar 30 02:15		22°02'52
asc. node	10531 Apr 22 00:17	25° 8 49'15		asc. node	10532 Apr 07 21:28	11° 8 17'35	
retrograde	10531 Apr 25 14:44	26° 8 52'31		retrograde	10532 Apr 08 12:27	11° 8 19'30	
evening set	10531 Apr 29 18:13	25° 8 15'05		evening set	10532 Apr 13 02:30	9° 8 26'43	
inferior conj	10531 May 05 00:59	19° 8 05'19	3°08'06	inferior conj	10532 Apr 18 09:45	3° 8 06'44	2°48'15
minimum elong	10531 May 04 23:43	19° 8 09'42	3°07'36	minimum elong	10532 Apr 18 07:50	3° 8 13'26	2°47'37
min. Earth dist.	10531 May 04 23:43 10531 May 05 13:29	18° 8 22'06	0.68231 AU	min. Earth dist.	10532 Apr 18 09:21	3° 8 08'07	0.68616 AU
morning rise	10531 May 10 04:59	12° 8 48'43	0.00231 AC	mm. Lattii dist.	10532 Apr 10 05:21 10532 Apr 20 16:54	30°R Y	0.00010 AC
direct	10531 May 15 14:33	10° 8 25'35		morning rise	10532 Apr 20 10:54 10532 Apr 23 13:01	26° Y 54'54	
desc. node	•	16° 8 20'01		direct	•	24° Υ 51'14	
	10531 May 25 21:05	16° 8 53'45	22047157	direct	10532 Apr 28 09:01	0° 8	
morning max el	10531 May 26 10:37	0°Ⅱ	23-47-57		10532 May 07 10:53	0° 8 27'57	22010142
	10531 Jun 06 07:22	0.2€		morning max el	10532 May 07 22:11	_	22°18'43
	10531 Jun 26 07:20			desc. node	10532 May 11 17:59	4° 8 40'03	
morning set	10531 Jun 30 17:41	7°524'26	1 20/72 411		10532 May 30 02:50	0°Ⅱ 17°Ⅲ	
max. Earth dist.	10531 Jul 04 13:42	14° © 03'33	1.38673 AU	morning set	10532 Jun 10 08:31	17° Ⅱ 33'23	1 100 10 177
				max. Earth dist.	10532 Jun 15 12:22	26° Ⅱ 05'01	1.40943 AU
superior conj	10531 Jul 11 23:55	27°537'17			10532 Jun 17 19:42	0ං ව	
minimum elong	10531 Jul 12 04:09	27° © 57'17	1°03'05				
	10531 Jul 13 06:02	0 $^{\circ}\Omega$		superior conj	10532 Jun 23 07:11	9° © 35'10	-1°34'58
asc. node							
	10531 Jul 18 23:16	11° Ω 04'18		minimum elong	10532 Jun 23 13:21		1°34'44
evening rise	10531 Jul 21 02:05	15° Ω 13'01		minimum elong evening rise	10532 Jul 03 14:35	28°533'54	1°34'44
evening rise	10531 Jul 21 02:05 10531 Jul 28 23:36	15° Ω 13'01 0° m)		evening rise	10532 Jul 03 14:35 10532 Jul 04 09:00	28°≌33'54 0° Ω	1°34'44
evening rise evening max el	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46	15° Ω 13'01 0° m 11° m 40'37	18°52'02	evening rise asc. node	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11	28°€33'54 0°Ω 0°Ω52'15	
evening rise evening max el retrograde	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55	15° Q 13'01 0° m 11° m 40'37 15° m 55'15	18°52'02	evening rise asc. node evening max el	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24	1°34'44 18°18'28
evening rise evening max el retrograde evening set	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57	15° Ω 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07	18°52'02	evening rise asc. node evening max el retrograde	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08	
evening rise evening max el retrograde evening set desc. node	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45	15° Q 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40		asc. node evening max el retrograde evening set	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$34'04	18°18'28
evening rise evening max el retrograde evening set desc. node inferior conj	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45	15° Q 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 24'08	-0°59'02	asc. node evening max el retrograde evening set inferior conj	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$34'04 22°\$\Omega\$54'53	18°18'28 0°38'45
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16	15° Q 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 24'08 11° m 28'35	-0°59'02 0°58'16	asc. node evening max el retrograde evening set inferior conj minimum elong	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37	28°\$33'54 0°\$\Omega\$0"00000000000000000000000000000000000	18°18'28
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51	15° Q 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 28'35 9° m 14'09	-0°59'02	asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59	28°\$33'54 0°\$\Omega\$0"00000000000000000000000000000000000	18°18'28 0°38'45 0°37'55
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18	15° Q 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 24'08 11° m 28'35 9° m 14'09 6° m 27'38	-0°59'02 0°58'16	asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56	28°\$33'54 0°\$\Omega\$0\cdot \Omega\$0\cdot \Omega\$2'15 24°\$\Omega\$11'24 27°\$\Omega\$3'08 27°\$\Omega\$34'04 22°\$\Omega\$54'53 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13	18°18'28 0°38'45
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57	15° Q 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 24'08 11° m 28'35 9° m 14'09 6° m 27'38 5° m 13'23	-0°59'02 0°58'16 0.56686 AU	asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53	28°\$33'54 0°\$\Omega\$0"\$\Omega\$0"\$\Omega\$2'15 24°\$\Omega\$11'24 27°\$\Omega\$3'08 27°\$\Omega\$34'04 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03	18°18'28 0°38'45 0°37'55
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08	15° \Pi 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 24'08 11° m 28'35 9° m 14'09 6° m 27'38 5° m 13'23 12° m 35'32	-0°59'02 0°58'16 0.56686 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11	28°\$33'54 0°\$\Omega\$0"\$\Omega\$0\sigma \Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$34'04 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17	18°18'28 0°38'45 0°37'55 0.58709 AU
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46	15° \Pi 13'01 0° m 11° m 40'37 15° m 55'15 15° m 43'07 13° m 32'40 11° m 24'08 11° m 28'35 9° m 14'09 6° m 27'38 5° m 13'23 12° m 35'32 0° \Pi	-0°59'02 0°58'16 0.56686 AU	asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15	28°\$33'54 0°\$\Omega\$0"\$\Omega\$0"\$\Omega\$2'15 24°\$\Omega\$11'24 27°\$\Omega\$3'08 27°\$\Omega\$34'04 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27	18°18'28 0°38'45 0°37'55 0.58709 AU
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08	15° \$\alpha\$ 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 55'15 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{L}\$ 17° \$\mathbf{L}\$ 11'10	-0°59'02 0°58'16 0.56686 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 19 03:11 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 08 10:30	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$4'53 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$707'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27 0°\$\Omega\$	18°18'28 0°38'45 0°37'55 0.58709 AU
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46	15° \$\alpha\$ 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 11'10 27° \$\mathbf{n}\$ 46'27	-0°59'02 0°58'16 0.56686 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$4'53 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27 0°\$\Omega\$	18°18'28 0°38'45 0°37'55 0.58709 AU
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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	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27 10531 Oct 21 04:19	15° \$\alpha\$ 13'01 0° \$\text{m}\$ 11° \$\text{m}\$ 40'37 15° \$\text{m}\$ 55'15 15° \$\text{m}\$ 43'07 13° \$\text{m}\$ 32'40 11° \$\text{m}\$ 24'08 11° \$\text{m}\$ 28'35 9° \$\text{m}\$ 14'09 6° \$\text{m}\$ 27'38 5° \$\text{m}\$ 13'23 12° \$\text{m}\$ 35'32 0° \$\text{\text{\text{m}}\$} 17° \$\text{\text{\text{\text{m}}}\$ 11'10 27° \$\text{\text{\text{\text{\text{\text{m}}}\$}} 46'27 0° \$\text{m}\$.	-0°59'02 0°58'16 0.56686 AU 26°14'01	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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 19 03:11 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$4'53 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27 0°\$\Omega\$	18°18'28 0°38'45 0°37'55 0.58709 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	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27	15° \$\alpha\$ 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 11'10 27° \$\mathbf{n}\$ 46'27	-0°59'02 0°58'16 0.56686 AU 26°14'01	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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27 10532 Sep 30 20:35	28°\$33'54 0°\$\Omega\$0"\$\Omega\$0"\$\Omega\$2'15 24°\$\Omega\$11'24 27°\$\Omega\$3'08 27°\$\Omega\$4'53 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27 0°\$\Omega\$0 6°\$\Omega\$50'31	18°18'28 0°38'45 0°37'55 0.58709 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	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27 10531 Oct 21 04:19 10531 Oct 26 22:45 10531 Oct 26 22:19	15° \$\alpha\$ 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 11'10 27° \$\mathbf{n}\$ 46'27 0° \$\mathbf{m}\$. 12° \$\mathbf{m}\$ 48'09 12° \$\mathbf{m}\$ 40'10	-0°59'02 0°58'16 0.56686 AU 26°14'01 1°33'50 1°34'02	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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27 10532 Sep 30 20:35 10532 Oct 10 11:31	28°\$33'54 0°\$\hat{O}\$\text{0}	18°18'28 0°38'45 0°37'55 0.58709 AU 27°22'48
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	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27 10531 Oct 21 04:19	15° \$\alpha\$ 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 11'10 27° \$\mathbf{n}\$ 46'27 0° \$\mathbf{m}\$. 12° \$\mathbf{m}\$ 48'09	-0°59'02 0°58'16 0.56686 AU 26°14'01	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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27 10532 Sep 30 20:35 10532 Oct 03 11:32	28°\$33'54 0°\$\hat{O}\$\text{\text{\$\sigma}}\$0°\$\R\$2'15 24°\$\R\$11'24 27°\$\R\$53'08 27°\$\R\$34'04 22°\$\R\$52'09 21°\$\R\$06'11 20°\$\R\$07'13 17°\$\R\$23'03 15°\$\R\$39'17 23°\$\R\$24'27 0°\$\R\$0 0°\$\L\$0 6°\$\L\$50'31 12°\$\L\$16'53	18°18'28 0°38'45 0°37'55 0.58709 AU 27°22'48
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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	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27 10531 Oct 20 03:27 10531 Oct 21 04:19 10531 Oct 26 22:19 10531 Oct 27 18:22 10531 Nov 02 22:26 10531 Nov 03 22:35 10531 Nov 17 17:34 10531 Dec 04 12:18	15° \$\alpha\$ 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 55'15 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$ 11'10 27° \$\mathbf{m}\$ 46'27 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 48'09 12° \$\mathbf{m}\$ 40'10 14° \$\mathbf{m}\$ 31'24 27° \$\mathbf{m}\$ 54'08 0° \$\nalpha\$ 25° \$\nalpha\$ 21'25 0° \$\mathbf{s}\$ 17° \$\mathbf{G}\$ 01'53	-0°59'02 0°58'16 0.56686 AU 26°14'01 1°33'50 1°34'02 1.31728 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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 19 03:11 10532 Aug 19 03:11 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27 10532 Sep 30 20:35 10532 Oct 10 11:31 10532 Oct 10 11:31 10532 Oct 10 03:41 10532 Oct 11 13:39 10532 Oct 17 05:34 10532 Oct 26 01:40 10532 Nov 03 14:42	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$4'53 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27 0°\$\Omega\$00'\Omega\$12'\Omega\$16'53 27°\$\Omega\$34'29 27°\$\Omega\$23'03 26°\$\Omega\$50'56 0°\$\Omega\$1 12°\$\Omega\$24'50 0°\$\omega\$1	18°18'28 0°38'45 0°37'55 0.58709 AU 27°22'48 1°22'45 1°22'42 1.31448 AU
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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	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27 10531 Oct 21 04:19 10531 Oct 26 23:45 10531 Oct 27 18:22 10531 Nov 03 22:35 10531 Nov 17 17:34 10531 Dec 04 12:18 10531 Dec 18 09:25 10531 Dec 18 09:25 10531 Dec 25 09:16	15° \$\Pi 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 55'15 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 24'08 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$ 11'10 27° \$\mathbf{m}\$ 46'27 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 48'09 12° \$\mathbf{m}\$ 48'09 12° \$\mathbf{m}\$ 40'10 14° \$\mathbf{m}\$ 31'24 27° \$\mathbf{m}\$ 54'08 0° \$\mathbf{m}\$ 25° \$\mathbf{m}\$ 21'25 0° \$\mathbf{m}\$ 17° \$\mathbf{G}\$ 01'53 24° \$\mathbf{G}\$ 15'34 22° \$\mathbf{G}\$ 02'57	-0°59'02 0°58'16 0.56686 AU 26°14'01 1°33'50 1°34'02 1.31728 AU 27°17'14	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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27 10532 Sep 30 20:35 10532 Oct 10 11:31 10532 Oct 10 09:27 10532 Oct 10 03:41 10532 Oct 10 03:41 10532 Oct 10 03:41 10532 Oct 17 05:34 10532 Oct 26 01:40 10532 Nov 03 14:42 10532 Nov 15 13:02 10532 Nov 16 21:42	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$4'04 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$39'17 23°\$\Omega\$24'27 0°\$\Omega\$0 6°\$\Omega\$50'31 12°\$\Omega\$16'53 27°\$\Omega\$23'03 26°\$\Omega\$50'56 0°\$\Omega\$1. 12°\$\Omega\$24'50 0°\$\omega\$14°\$\omega\$8'\$\Omega\$45'47 0°\$\omega\$	18°18'28 0°38'45 0°37'55 0.58709 AU 27°22'48 1°22'45 1°22'42 1.31448 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.	10531 Jul 21 02:05 10531 Jul 28 23:36 10531 Aug 06 08:46 10531 Aug 14 20:55 10531 Aug 16 18:57 10531 Aug 21 19:45 10531 Aug 24 23:45 10531 Aug 24 21:16 10531 Aug 28 00:51 10531 Sep 01 20:18 10531 Sep 07 09:57 10531 Sep 21 16:08 10531 Oct 05 06:46 10531 Oct 14 23:45 10531 Oct 20 03:27 10531 Oct 21 04:19 10531 Oct 26 22:19 10531 Oct 27 18:22 10531 Nov 02 22:26 10531 Nov 03 22:35 10531 Nov 17 17:34 10531 Dec 18 09:25 10531 Dec 18 09:25 10531 Dec 25 09:16 10531 Dec 29 02:47	15° \$\Pi 13'01 0° \$\mathbf{m}\$ 11° \$\mathbf{m}\$ 40'37 15° \$\mathbf{m}\$ 55'15 15° \$\mathbf{m}\$ 43'07 13° \$\mathbf{m}\$ 32'40 11° \$\mathbf{m}\$ 28'35 9° \$\mathbf{m}\$ 14'09 6° \$\mathbf{m}\$ 27'38 5° \$\mathbf{m}\$ 13'23 12° \$\mathbf{m}\$ 35'32 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$ 11'10 27° \$\mathbf{m}\$ 46'27 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 48'09 12° \$\mathbf{m}\$ 48'09 12° \$\mathbf{m}\$ 40'10 14° \$\mathbf{m}\$ 31'24 27° \$\mathbf{m}\$ 54'08 0° \$\mathbf{n}\$ 25° \$\mathbf{n}\$ 21'25 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 01'53 24° \$\mathbf{n}\$ 15'34 22° \$\mathbf{n}\$ 20'257 19° \$\mathbf{n}\$ 16'02	-0°59'02 0°58'16 0.56686 AU 26°14'01 1°33'50 1°34'02 1.31728 AU 27°17'14 0.61233 AU -3°07'26	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	10532 Jul 03 14:35 10532 Jul 04 09:00 10532 Jul 04 20:11 10532 Jul 19 15:15 10532 Jul 26 23:17 10532 Jul 29 03:54 10532 Aug 05 13:19 10532 Aug 05 14:37 10532 Aug 07 16:59 10532 Aug 08 21:56 10532 Aug 12 21:53 10532 Aug 19 03:11 10532 Sep 02 12:15 10532 Sep 02 12:15 10532 Sep 08 10:30 10532 Sep 27 09:27 10532 Sep 30 20:35 10532 Oct 10 11:31 10532 Oct 10 11:31 10532 Oct 10 09:27 10532 Oct 10 03:41 10532 Oct 11 13:39 10532 Oct 17 05:34 10532 Oct 26 01:40 10532 Nov 03 14:42 10532 Nov 15 13:02 10532 Nov 16 21:42 10532 Nov 16 21:42	28°\$33'54 0°\$\Omega\$ 0°\$\Omega\$52'15 24°\$\Omega\$11'24 27°\$\Omega\$53'08 27°\$\Omega\$4'04 22°\$\Omega\$52'09 21°\$\Omega\$06'11 20°\$\Omega\$07'13 17°\$\Omega\$23'03 15°\$\Omega\$9'17 23°\$\Omega\$24'27 0°\$\Omega\$6°\$\Omega\$50'31 12°\$\Omega\$16'53 27°\$\Omega\$34'29 27°\$\Omega\$23'03 26°\$\Omega\$50'56 0°\$\Omega\$14'\$\Omega\$08'36 28°\$\Omega\$45'47 0°\$\Omega\$52'24	18°18'28 0°38'45 0°37'55 0.58709 AU 27°22'48 1°22'45 1°22'42 1.31448 AU

	10532 Dec 12 01:36	30°R <i>≯</i> ⁷		min. Earth dist.	10533 Nov 21 17:47	120 7/41100	0.57117 AU
inferior conj	10532 Dec 12 01:30 10532 Dec 13 06:49	29° ∡ 103′29	1020150	inferior conj	10533 Nov 21 17:47 10533 Nov 24 13:21	12 x 41 09	
,		29 x · 03 29 28° x · 48'13	4°18'12	3	10533 Nov 24 15.21 10533 Nov 24 19:50	10 x 48 46 10° x 37'56	
minimum elong	10532 Dec 13 14:46 10532 Dec 21 05:53	28 x 48 13 24° x 29'42	4 1812	minimum elong		6° ₹ 37'06	3 18 44
morning rise				morning rise	10533 Dec 02 21:03		
direct	10532 Dec 23 09:18	24° 🖈 13'36		direct	10533 Dec 05 05:27	6° 🗷 21'00	10000114
asc. node	10532 Dec 27 20:29	25° х 27'43	10020125	morning max el	10533 Dec 14 09:03	10° ₹ 44'53	19°08'14
morning max el	10532 Dec 31 07:36	28° ⋌ '07'29	18°20'25	asc. node	10533 Dec 14 17:32	11° ⋌ ¹05'39	
	10533 Jan 02 01:36	0°る			10533 Dec 27 04:01	0°る	
morning set	10533 Jan 16 03:03	23° る 20'24		morning set	10533 Dec 31 03:11	7° る 43'47	
	10533 Jan 19 14:57	0° ≈				 -	
				superior conj	10534 Jan 08 09:34	24° る 01'50	1°06'08
superior conj	10533 Jan 25 08:50	10°≈43'35	0°39'29	minimum elong	10534 Jan 08 12:39	24° පි 16'41	1°06'14
minimum elong	10533 Jan 25 11:29	10° ≈ 55'40	0°39'30		10534 Jan 11 12:59	0° ≈	
desc. node	10533 Jan 30 14:00	20° ≈ 02'56		max. Earth dist.	10534 Jan 15 04:23	6° ≈ 41'10	1.38668 AU
max. Earth dist.	10533 Feb 01 22:08	24°≈05'25	1.40864 AU	desc. node	10534 Jan 17 10:52	10° ≈ 43′25	
	10533 Feb 05 10:27	0° ∀		evening rise	10534 Jan 18 23:25	13° ≈ 22'41	
evening rise	10533 Feb 06 11:11	1°) 42′00			10534 Jan 29 02:52	0° ∀	
	10533 Feb 25 01:32	0° Ƴ			10534 Feb 20 02:50	0° Υ	
evening max el	10533 Mar 12 17:35	19° Ƴ 31'29	23°22'54	evening max el	10534 Feb 23 07:18		24°42'09
retrograde	10533 Mar 23 07:37	25° Y 46'40		retrograde	10534 Mar 06 23:01	10° Y ′09'22	
asc. node	10533 Mar 25 18:40	25° Ƴ 17'42		evening set	10534 Mar 12 12:35	7° Y 50′05	
evening set	10533 Mar 28 09:07	23° Y 39'44		asc. node	10534 Mar 12 15:55	7° Ƴ 42'56	
inferior conj	10533 Apr 02 18:44	17° Ƴ 12'46	2°18'43	min. Earth dist.	10534 Mar 17 01:40	2° Ƴ 41'31	0.68086 AU
minimum elong	10533 Apr 02 16:32	17° Ƴ 20'19	2°18'00	inferior conj	10534 Mar 18 02:05	1° Y 20′22	1°39'55
min. Earth dist.	10533 Apr 02 06:09	17° Ƴ 56′05	0.68561 AU	minimum elong	10534 Mar 18 00:05	1° Y 27'01	1°39'15
morning rise	10533 Apr 07 23:54	11° Ƴ 06'57			10534 Mar 19 02:29	30° ₹ ₩	
direct	10533 Apr 12 06:33	9° Ƴ 24'50		morning rise	10534 Mar 23 11:46	25° ∺ 21'59	
morning max el	10533 Apr 20 14:53	14° Ƴ 12'05	20°56'15	direct	10534 Mar 27 05:48	24° ₭ 01'14	
desc. node	10533 Apr 28 14:49	23° Y 44'41		morning max el	10534 Apr 03 15:06	28° ₭ 08'19	19°46'09
	10533 May 03 03:49	9° 8			10534 Apr 05 09:28	0 ° Υ	
morning set	10533 May 20 21:33	26° 8 33'09		desc. node	10534 Apr 15 11:38	13° Ƴ 22'04	
	10533 May 23 02:14	Π° 0		greatest brilliancy	10534 Apr 16 12:10	14° Ƴ 51'25	-0.6m
max. Earth dist.	10533 May 28 16:47	8° Ⅱ 58'29	1.42983 AU		10534 Apr 26 14:20	$_{0\circ}$ 8	
				morning set	10534 Apr 29 20:40	5° 8 00'11	
superior conj	10533 Jun 04 16:42	20° Ⅲ 34'11	-2°00'14	max. Earth dist.	10534 May 11 04:30	22° 8 41'04	1.44549 AU
minimum elong	10533 Jun 04 22:35	20° Ⅱ 59'04	2°00'20		10534 May 15 18:16	Π° 0	
C	10533 Jun 10 04:23	0 \circ \odot			•		
evening rise	10533 Jun 16 12:33						
Č	100000 Juli 10 12.00	11° © 12'48		superior conj	10534 May 16 02:02	0° Ⅱ 31′20	-2°12'41
asc. node	10533 Jun 21 17:08	11°©12'48 20°©24'50		superior conj minimum elong	•		
asc. node	10533 Jun 21 17:08	20°\$24'50		minimum elong	10534 May 16 03:24	0°Ⅲ36′51	
			18°04'47	1 3	•		
evening max el	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13	20°\$24'50 0°\$0 7°\$\Omega\$11'55	18°04'47	minimum elong evening rise	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27	0°П36'51 22°П59'29	
evening max el retrograde	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18	20°\$24'50 0°Ω 7°Ω11'55 10°Ω35'42	18°04'47	minimum elong evening rise asc. node	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10	0°∏36'51 22°∏59'29 0°© 9°©36'37	2°13'06
evening max el retrograde evening set	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51	20°\$24'50 0°\$\Omega\$7°\$\Omega\$11'55 10°\$\Omega\$35'42 10°\$\Omega\$06'07		minimum elong evening rise asc. node evening max el	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05	0°∏36'51 22°∏59'29 0°© 9°©36'37 20°©33'06	
evening max el retrograde evening set inferior conj	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56	20°\$24'50 0°\$\lambda 7°\$\Omega\$11'55 10°\$\Omega\$35'42 10°\$\Omega\$06'07 5°\$\Omega\$07'04	18°04'47 1°51'21 1°50'05	minimum elong evening rise asc. node evening max el retrograde	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49	0°II36'51 22°II59'29 0°© 9°S36'37 20°S33'06 23°S53'48	2°13'06
evening max el retrograde evening set inferior conj minimum elong	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40	20°\$24'50 0°\$\Omega\$ 7°\$\Omega\$11'55 10°\$\Omega\$35'42 10°\$\Omega\$06'07 5°\$\Omega\$07'04 5°\$\Omega\$00'28	1°51'21 1°50'05	minimum elong evening rise asc. node evening max el retrograde evening set	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jun 25 22:19	0°II36'51 22°II59'29 0°S 9°S36'37 20°S33'06 23°S53'48 23°S11'08	2°13'06 18°09'57
evening max el retrograde evening set inferior conj	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04	20°\$24'50 0°\$\Omega\$ 7°\$\Omega\$11'55 10°\$\Omega\$35'42 10°\$\Omega\$06'07 5°\$\Omega\$07'04 5°\$\Omega\$00'28 2°\$\Omega\$04'04	1°51'21	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jun 25 22:19 10534 Jul 02 00:48	0°II36'51 22°II59'29 0°S 9°S36'37 20°S33'06 23°S53'48 23°S11'08 17°S53'37	2°13'06 18°09'57 2°39'21
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36	20°\$24'50 0°\$\mathcal{O}\$ 7°\$\mathcal{O}\$11'55 10°\$\mathcal{O}\$35'42 10°\$\mathcal{O}\$06'07 5°\$\mathcal{O}\$07'04 5°\$\mathcal{O}\$00'28 2°\$\mathcal{O}\$04'04 30°\$\mathcal{O}\$\$	1°51'21 1°50'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jun 25 22:19 10534 Jul 02 00:48 10534 Jul 02 03:19	0°II36'51 22°II59'29 0°II36'37 20°II39'06 23°II'08 23°II'08 17°II'08 17°II'08	2°13'06 18°09'57 2°39'21 2°38'17
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49	20°\$24'50 0°\$\mathcal{O}\$ 7°\$\mathcal{O}\$11'55 10°\$\mathcal{O}\$35'42 10°\$\mathcal{O}\$06'07 5°\$\mathcal{O}\$07'04 5°\$\mathcal{O}\$00'28 2°\$\mathcal{O}\$04'04 30°\$\mathcal{O}\$\$9°\$\$509'46	1°51'21 1°50'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jun 25 22:19 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14	0°II36'51 22°II59'29 0°© 9°S36'37 20°S33'06 23°S53'48 23°S11'08 17°S53'37 17°S46'44 14°S58'13	2°13'06 18°09'57 2°39'21
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49 10533 Jul 25 14:12	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$06'07 5°\$\mathcal{Q}\$07'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$\$29°\$\mathcal{Q}\$9'46 29°\$\mathcal{Q}\$15'49	1°51'21 1°50'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jun 25 22:19 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40	0°II36'51 22°II59'29 0°I 9°II36'37 20°II39'06 23°II39'06 23°II1'08 17°II39'37 17°II39'46'44 14°II39'41'17	2°13'06 18°09'57 2°39'21 2°38'17
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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	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49 10533 Jul 25 17:49 10533 Jul 25 14:12 10533 Aug 01 08:42 10533 Aug 09 18:25 10533 Aug 15 15:08 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 19 06:58 10533 Sep 24 22:15 10533 Sep 24 22:15 10533 Sep 24 20:00	20°\$24'50 0°\$\Omega\$ 7°\$\Omega\$11'55 10°\$\Omega\$35'42 10°\$\Omega\$06'07 5°\$\Omega\$07'04 5°\$\Omega\$00'28 2°\$\Omega\$04'04 30°\$\Sigma\$ 29°\$\Sigma\$09'46 29°\$\Sigma\$15'49 26°\$\Sigma\$57'38 0°\$\Omega\$ 4°\$\Omega\$56'29 0°\$\Omega\$ 26°\$\Omega\$31'10 26°\$\Omega\$43'16 0°\$\Omega\$ 9°\$\Omega\$03'55	1°51'21 1°50'05 0.60974 AU 27°54'58	minimum elong evening rise 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.	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40 10534 Jul 12 11:22 10534 Jul 14 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 07 03:08 10534 Sep 01 11:49 10534 Sep 04 14:12 10534 Sep 09 06:04 10534 Sep 09 06:04 10534 Sep 09 06:04	0° II 36'51 22° II 59'29 0° II 59'29 0° II 59'29 0° II 59'29 9° II 59'348 23° II 1'08 17° II 55'3'37 17° II 56'44 14° II 56'8'13 11° II 6' II 51 0° II 6' II 51 0° II 6' II 51 10° II 51 1	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54
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	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49 10533 Jul 25 14:12 10533 Aug 01 08:42 10533 Aug 09 18:25 10533 Aug 09 18:25 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 19 06:58 10533 Sep 24 22:15 10533 Sep 24 20:00 10533 Sep 24 20:00 10533 Oct 01 15:49	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$06'07 5°\$\mathcal{Q}\$07'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$29°\$\mathcal{Q}\$09'46 29°\$\mathcal{Q}\$15'49 26°\$\mathcal{Q}\$57'38 0°\$\mathcal{Q}\$ 4°\$\mathcal{Q}\$56'29 0°\$\mathcal{Q}\$ 26°\$\mathcal{Q}\$31'10 26°\$\mathcal{Q}\$43'16 0°\$\mathcal{Q}\$ 9°\$\mathcal{Q}\$03'55 12°\$\mathcal{Q}\$14'08 12°\$\mathcal{Q}\$01'46 27°\$\mathcal{Q}\$01'58	1°51'21 1°50'05 0.60974 AU 27°54'58 1.31656 AU 1°06'21	minimum elong evening rise 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	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40 10534 Jul 12 11:22 10534 Jul 14 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 07 03:08 10534 Sep 01 11:49 10534 Sep 04 14:12 10534 Sep 09 06:04 10534 Sep 09 06:04 10534 Sep 09 04:10 10534 Sep 10 18:33	0° M36'51 22° M59'29 0° 9° 936'37 20° 933'06 23° 953'48 23° 9511'08 17° 953'37 17° 946'44 14° 958'13 11° 941'17 9° 929'20 9° 908'23 17° 910'51 0° Ω 0° M 10° M23'19 16° M44'29 21° M00'18 26° M41'22 26° M31'04 0° Ω	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54 1.32365 AU 0°44'53
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	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49 10533 Jul 25 17:49 10533 Aug 01 08:42 10533 Aug 09 18:25 10533 Aug 15 15:08 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 24 22:15 10533 Sep 24 22:15 10533 Sep 24 20:00 10533 Oct 01 15:49 10533 Oct 03 01:13	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$00'07 5°\$\mathcal{Q}\$07'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$29°\$\mathcal{Q}\$09'46 29°\$\mathcal{Q}\$15'49 26°\$\mathcal{Q}\$57'38 0°\$\mathcal{Q}\$ 4°\$\mathcal{Q}\$56'29 0°\$\mathcal{Q}\$ 26°\$\mathcal{Q}\$31'10 26°\$\mathcal{Q}\$43'16 0°\$\mathcal{Q}\$ 9°\$\mathcal{Q}\$03'55 12°\$\mathcal{Q}\$14'08 12°\$\mathcal{Q}\$01'46 27°\$\mathcal{Q}\$01'58 0°\$\mathcal{Q}\$	1°51'21 1°50'05 0.60974 AU 27°54'58 1.31656 AU 1°06'21	minimum elong evening rise 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	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40 10534 Jul 12 11:22 10534 Jul 14 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 27 03:08 10534 Sep 01 11:49 10534 Sep 04 14:12 10534 Sep 06 14:42 10534 Sep 09 06:04 10534 Sep 09 06:04 10534 Sep 10 18:33 10534 Sep 10 18:33 10534 Sep 10 18:33	0° M36'51 22° M59'29 0° © 9° ©36'37 20° ©33'06 23° ©53'48 23° ©51'08 17° ©53'37 17° ©46'44 14° ©58'13 11° ©41'17 9° ©29'20 9° ©08'23 17° ©10'51 0° Ω 0° M 10° M23'19 16° M44'29 21° M00'18 26° M41'22 26° M31'04 0° Ω 11° Ω39'53	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54 1.32365 AU 0°44'53
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	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49 10533 Jul 25 14:12 10533 Aug 01 08:42 10533 Aug 01 08:42 10533 Aug 15 15:08 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 17 17:23 10533 Sep 24 22:15 10533 Sep 24 22:15 10533 Sep 24 20:00 10533 Oct 01 15:49 10533 Oct 03 01:13 10533 Oct 00 00:07	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$06'07 5°\$\mathcal{Q}\$07'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$29°\$\mathcal{Q}\$09'46 29°\$\mathcal{Q}\$15'49 26°\$\mathcal{Q}\$57'38 0°\$\mathcal{Q}\$ 4°\$\mathcal{Q}\$56'29 0°\$\mathcal{Q}\$0°\$\mathcal{Q}\$1'10 26°\$\mathcal{Q}\$43'16 0°\$\mathcal{Q}\$ 9°\$\mathcal{Q}\$03'55 12°\$\mathcal{Q}\$14'08 12°\$\mathcal{Q}\$01'46 27°\$\mathcal{Q}\$01'58 0°\$\mathcal{Q}\$	1°51'21 1°50'05 0.60974 AU 27°54'58 1.31656 AU 1°06'21	minimum elong evening rise 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	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 00:48 10534 Jul 04 17:14 10534 Jul 04 17:14 10534 Jul 12 11:22 10534 Jul 12 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 27 03:08 10534 Sep 01 11:49 10534 Sep 04 14:12 10534 Sep 09 06:04 10534 Sep 09 06:04 10534 Sep 10 18:33 10534 Sep 10 18:33 10534 Sep 10 18:33 10534 Sep 10 18:33 10534 Sep 16 03:18 10534 Sep 25 08:51	0° M36'51 22° M59'29 0° © 9° ©36'37 20° ©33'06 23° ©53'48 23° ©51'08 17° ©53'37 17° ©46'44 14° ©558'13 11° ©41'17 9° ©29'20 9° ©08'23 17° ©10'51 0° N 0° M 10° M23'19 16° M44'29 21° M00'18 26° M41'22 26° M31'04 0° Ω 11° Ω39'53 0° M	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54 1.32365 AU 0°44'53
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	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 25 17:49 10533 Jul 25 14:12 10533 Aug 01 08:42 10533 Aug 01 08:42 10533 Aug 01 08:02 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 17 17:23 10533 Sep 24 22:15 10533 Sep 24 22:15 10533 Sep 24 20:00 10533 Oct 01 15:49 10533 Oct 03 01:13 10533 Oct 20 00:07 10533 Oct 21 11:55	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$00'07 5°\$\mathcal{Q}\$07'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$09'\$\mathcal{Q}\$15'49 26°\$\mathcal{Q}\$57'38 0°\$\mathcal{Q}\$4"\$\mathcal{Q}\$56'29 0°\$\mathcal{Q}\$0"\$\mathcal{Q}\$0"\$\mathcal{Q}\$110 26°\$\mathcal{Q}\$43'16 0°\$\mathcal{Q}\$9°\$\mathcal{Q}\$03'55 12°\$\mathcal{Q}\$14'08 12°\$\mathcal{Q}\$01'46 27°\$\mathcal{Q}\$01'58 0°\$\mathcal{Q}\$\mathcal{Q}\$10'24	1°51'21 1°50'05 0.60974 AU 27°54'58 1.31656 AU 1°06'21 1°06'03	minimum elong evening rise 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	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40 10534 Jul 12 11:22 10534 Jul 14 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 27 03:08 10534 Sep 01 11:49 10534 Sep 04 14:12 10534 Sep 06 14:42 10534 Sep 10 18:33 10534 Sep 25 08:51 10534 Sep 25 08:51 10534 Sep 25 08:51	0° M36'51 22° M59'29 0° 9° 336'37 20° 33'06 23° 953'48 23° 9511'08 17° 953'37 17° 946'44 14° 958'13 11° 941'17 9° 929'20 9° 908'23 17° 910'51 0° N 0° M 10° M23'19 16° M44'29 21° M00'18 26° M41'22 26° M31'04 0° 11° 939'53 0° M 11° 939'53 0° M 18° M35'08	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54 1.32365 AU 0°44'53 0°44'27
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 24 13:36 10533 Jul 25 17:49 10533 Jul 25 14:12 10533 Aug 01 08:42 10533 Aug 01 08:42 10533 Aug 15 15:08 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 17 17:23 10533 Sep 23 11:43 10533 Sep 24 22:15 10533 Sep 24 20:00 10533 Oct 01 15:49 10533 Oct 03 01:13 10533 Oct 03 01:13 10533 Oct 20 00:07 10533 Oct 21 11:55 10533 Oct 28 05:47	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$00'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$29°\$\mathcal{Q}\$09'46 29°\$\mathcal{Q}\$15'49 26°\$\mathcal{Q}\$57'38 0°\$\mathcal{Q}\$4"\$\mathcal{Q}\$56'29 0°\$\mathcal{Q}\$0"\$\mathcal{Q}\$26"\$\mathcal{Q}\$31'10 26°\$\mathcal{Q}\$43'16 0°\$\mathcal{Q}\$9"\$\mathcal{Q}\$03'55 12°\$\mathcal{Q}\$14'08 12°\$\mathcal{Q}\$01'46 27°\$\mathcal{Q}\$01'58 0°\$\mathcal{Q}\$\mathcal{Q}\$\mathcal{Q}\$\mathcal{Q}\$15'20 0°\$\mathcal{Q}\$2"\$\mathcal{Q}\$01'24 9°\$\mathcal{Q}\$39'20	1°51'21 1°50'05 0.60974 AU 27°54'58 1.31656 AU 1°06'21	minimum elong evening rise 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	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40 10534 Jul 12 11:22 10534 Jul 14 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 27 03:08 10534 Sep 01 11:49 10534 Sep 06 14:42 10534 Sep 09 06:04 10534 Sep 09 06:04 10534 Sep 10 18:33 10534 Sep 10 18:33 10534 Sep 10 18:33 10534 Sep 25 08:51 10534 Sep 25 08:51 10534 Oct 08 09:10 10534 Oct 09 16:52	0° M36'51 22° M59'29 0° 9° 936'37 20° 933'06 23° 953'48 23° 911'08 17° 953'37 17° 946'44 14° 958'13 11° 941'17 9° 929'20 9° 908'23 17° 910'51 0° Ω 0° m 10° m23'19 16° m44'29 21° m00'18 26° m41'22 26° m31'04 0° 9 11° 939'53 0° m 18° M35'08 19° M55'01	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54 1.32365 AU 0°44'53 0°44'27
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	10533 Jun 21 17:08 10533 Jun 27 12:18 10533 Jul 03 03:13 10533 Jul 09 18:18 10533 Jul 12 06:51 10533 Jul 18 22:56 10533 Jul 19 01:40 10533 Jul 22 03:04 10533 Jul 25 17:49 10533 Jul 25 14:12 10533 Aug 01 08:42 10533 Aug 01 08:42 10533 Aug 01 08:02 10533 Sep 03 08:02 10533 Sep 17 15:03 10533 Sep 17 17:23 10533 Sep 17 17:23 10533 Sep 24 22:15 10533 Sep 24 22:15 10533 Sep 24 20:00 10533 Oct 01 15:49 10533 Oct 03 01:13 10533 Oct 20 00:07 10533 Oct 21 11:55	20°\$24'50 0°\$\mathcal{Q}\$ 7°\$\mathcal{Q}\$11'55 10°\$\mathcal{Q}\$35'42 10°\$\mathcal{Q}\$00'07 5°\$\mathcal{Q}\$07'04 5°\$\mathcal{Q}\$00'28 2°\$\mathcal{Q}\$04'04 30°\$\mathcal{Q}\$09'\$\mathcal{Q}\$15'49 26°\$\mathcal{Q}\$57'38 0°\$\mathcal{Q}\$4"\$\mathcal{Q}\$56'29 0°\$\mathcal{Q}\$0"\$\mathcal{Q}\$0"\$\mathcal{Q}\$110 26°\$\mathcal{Q}\$43'16 0°\$\mathcal{Q}\$9°\$\mathcal{Q}\$03'55 12°\$\mathcal{Q}\$14'08 12°\$\mathcal{Q}\$01'46 27°\$\mathcal{Q}\$01'58 0°\$\mathcal{Q}\$\mathcal{Q}\$10'24	1°51'21 1°50'05 0.60974 AU 27°54'58 1.31656 AU 1°06'21 1°06'03	minimum elong evening rise 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	10534 May 16 03:24 10534 May 29 15:12 10534 Jun 02 18:27 10534 Jun 08 14:10 10534 Jun 16 17:05 10534 Jun 23 01:49 10534 Jul 02 00:48 10534 Jul 02 03:19 10534 Jul 04 17:14 10534 Jul 08 06:40 10534 Jul 12 11:22 10534 Jul 14 23:51 10534 Jul 28 23:03 10534 Aug 08 14:38 10534 Aug 27 03:08 10534 Sep 01 11:49 10534 Sep 04 14:12 10534 Sep 06 14:42 10534 Sep 10 18:33 10534 Sep 25 08:51 10534 Sep 25 08:51 10534 Sep 25 08:51	0° M36'51 22° M59'29 0° 9° 336'37 20° 33'06 23° 953'48 23° 9511'08 17° 953'37 17° 946'44 14° 958'13 11° 941'17 9° 929'20 9° 908'23 17° 910'51 0° N 0° M 10° M23'19 16° M44'29 21° M00'18 26° M41'22 26° M31'04 0° 11° 939'53 0° M 11° 939'53 0° M 18° M35'08	2°13'06 18°09'57 2°39'21 2°38'17 0.63187 AU 27°48'54 1.32365 AU 0°44'53 0°44'27

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min. Earth dist.	10534 Nov 03 02:58	22°M51'06	0.55551 AU	inferior conj	10535 Oct 15 19:08	2°M01'51	-5°18'01
inferior conj	10534 Nov 04 23:41	21°M45'02	-5°45'44	minimum elong	10535 Oct 15 11:25	2°M12'38	5°16'29
minimum elong	10534 Nov 04 23:49	21°M44'50	5°45'21	min. Earth dist.	10535 Oct 15 10:02	2°M14'35	0.54701 AU
morning rise	10534 Nov 13 10:19	17° M 51'45			10535 Oct 19 14:07	30° ₽ Ω	
direct	10534 Nov 16 06:35	17° M 31'51		morning rise	10535 Oct 24 04:34	28° ₽ 14'31	
morning max el	10534 Nov 26 21:51	22°M33'48	20°18'50	direct	10535 Oct 27 17:23	27° ≏ 47'08	
asc. node	10534 Dec 01 14:33	27°M56'47			10535 Nov 04 06:05	0°M	
use. House	10534 Dec 03 01:51	0° ⊼		morning max el	10535 Nov 08 21:12	3°M32'29	21°50'43
morning set	10534 Dec 15 09:28	22° × ⁷ 22'10		asc. node	10535 Nov 18 11:31	15°M45'30	21 30 13
morning set	10534 Dec 19 02:20	0°る		asc. node	10535 Nov 16 17:51 10535 Nov 26 07:58	0° ⊼ ′	
	10334 Dec 19 02.20	0.0					
	10524 D 22 22 22	7075605	1024140	morning set	10535 Nov 29 19:25	7° ∡ ′08'38	
superior conj	10534 Dec 22 23:33		1°24'40		10525 0 06 22 50	222 316142	1025140
minimum elong	10534 Dec 23 02:01	8° පි 08'51	1°24'58	superior conj	10535 Dec 06 22:58	22° ∡ 16'48	1°35'40
max. Earth dist.	10534 Dec 28 11:40	18° る 46'09	1.36524 AU	minimum elong	10535 Dec 07 00:20	22° ∡ 23′58	1°36'06
evening rise	10535 Jan 01 07:18	25° る 53'41			10535 Dec 10 16:38	0°ಕ	
	10535 Jan 03 14:07	0° ≈		max. Earth dist.	10535 Dec 11 00:26	0° る 39'28	1.34638 AU
desc. node	10535 Jan 04 07:46	1°≈17'50		evening rise	10535 Dec 15 07:21	9° ප 06'15	
	10535 Jan 22 15:07	0°) €		desc. node	10535 Dec 22 04:44	21° る 41'52	
evening max el	10535 Feb 05 20:45	17° ¥ 11′02	25°53'35		10535 Dec 27 03:24	0° ≈ ≈	
retrograde	10535 Feb 18 09:34	24°) €20'53			10536 Jan 18 12:31	0°) €	
evening set	10535 Feb 24 11:14	21°) 52'07		evening max el	10536 Jan 19 10:14	0° ¥ 53'23	26°49'52
asc. node	10535 Feb 27 13:10	18°) 44'24		retrograde	10536 Feb 01 14:34	8°) 14'25	20 47 32
	10535 Feb 28 17:36	17°) 18'30	0.67204 AU	-		5°) (40'34	
min. Earth dist.				evening set	10536 Feb 08 03:12		0.65020 441
inferior conj	10535 Mar 02 05:51	15°) €24'36	0°51'51	min. Earth dist.	10536 Feb 12 03:44	1°) 41′15	0.65938 AU
minimum elong	10535 Mar 02 04:36	15° ¥ 28'33	0°51'32		10536 Feb 13 14:35	30° R ≈	
morning rise	10535 Mar 07 22:33	9° ∺ 35'32		inferior conj	10536 Feb 14 03:54	29° ≈ 21'02	
direct	10535 Mar 11 05:08	8°) 34'17		minimum elong	10536 Feb 14 04:02	29° ≈ 20'38	0°05'00
morning max el	10535 Mar 17 22:58	12°) 13′45	18°51'19	transit middle	10536 Feb 14 04:02	29° ≈ 20′38	0°05'00
	10535 Mar 31 03:30	$0^{\circ}\mathbf{\Upsilon}$		transit begin	10536 Feb 14 01:14	29° ≈ 28'49	
desc. node	10535 Apr 02 08:25	3° Y 22'47		transit end	10536 Feb 14 06:50	29° ≈ 12'27	
morning set	10535 Apr 09 04:50	14° Y ′00'38		asc. node	10536 Feb 14 10:25	29° ≈ 02'02	
C	10535 Apr 19 11:00	0° ႘		morning rise	10536 Feb 20 06:03	23° ≈ 43'24	
max. Earth dist.	10535 Apr 23 21:48	6° 8 57'36	1.45459 AU	direct	10536 Feb 23 02:32	22° ≈ 58'39	
		. 0.,		morning max el	10536 Feb 29 12:48	26° ≈ 23'07	18°12'56
superior conj	10535 Apr 25 14:52	9° 8 38'43	2006/20	morning max ci	10536 Mar 03 17:13	0° ∀	10 12 30
minimum elong	10535 Apr 25 08:51	9° 8 15'03		desc. node	10536 Mar 19 05:09	23° ¥ 40′25	
minimum clong	10535 Apr 25 08:51 10535 May 08 10:17	9°Ⅱ	2 00 23	morning set	10536 Mar 19 15:10	24°\(\frac{1}{40}\)25	
	•			morning set			
evening rise	10535 May 10 18:33	3° ∏ 46'49			10536 Mar 23 03:35	0° Υ	
asc. node	10535 May 26 11:15	28° Ⅲ 20′16				••	
	10535 May 27 16:56	0		superior conj	10536 Apr 03 21:09	18° Ƴ 35'26	
evening max el	10535 May 31 05:42	4° © 06'49	18°33'17	minimum elong	10536 Apr 03 11:37	17° Y ′58′05	
retrograde	10535 Jun 06 17:38	7° © 38'26		max. Earth dist.	10536 Apr 05 17:35	21° Y 29'27	1.45633 AU
evening set	10535 Jun 09 22:02	6°5541'12			10536 Apr 11 04:24	9° 8	
inferior conj	10535 Jun 15 14:51	1° © 06'52	3°06'43	evening rise	10536 Apr 19 22:48	13° 8 39'28	
minimum elong	10535 Jun 15 16:22	1° 5 02'16	3°05'59		10536 Apr 30 12:00	$\Pi^{\circ}0$	
	10535 Jun 16 12:55	30° Ŗ Ⅱ		greatest brilliancy	10536 May 01 12:28	1° Ⅲ 33′01	-0.7m
min. Earth dist.	10535 Jun 17 16:38	28° Ⅱ 37'04	0.65126 AU	asc. node	10536 May 12 08:23	16° Ⅲ 26′05	
morning rise	10535 Jun 21 09:49	24° Ⅱ 47'31		evening max el	10536 May 13 14:38	17° Ⅱ 46′26	19°13'52
direct	10535 Jun 27 22:56	22° I I04'33		retrograde	10536 May 20 14:13	21° I I41'34	-
desc. node	10535 Jun 29 08:29	22° I I1'13		evening set	10536 May 24 02:53	20° Ⅲ 29'00	
dese. Hode	10535 Jul 11 09:47	0°95		inferior conj	10536 May 29 13:32	14° ∏ 39'33	3°17'31
mamina may al	10535 Jul 11 09:34	29° ∏ 59'28	27°08'51		•	14° Ⅱ 39'33	3°17'00
morning max el			27 08 31	minimum elong	10536 May 29 13:52		
	10535 Aug 02 13:45	0°N		min. Earth dist.	10536 May 31 00:16	12° Ⅱ 46'57	0.66678 AU
morning set	10535 Aug 15 23:07	23° Ω 46′27		morning rise	10536 Jun 04 00:22	8° Ⅱ 18'37	
	10535 Aug 19 02:51	0° ™		direct	10536 Jun 10 04:50	5° Ⅱ 36′18	
max. Earth dist.	10535 Aug 20 09:16	2° Mp 33'54	1.33579 AU	desc. node	10536 Jun 15 05:32	7° Ⅱ 03'01	
asc. node	10535 Aug 22 11:02	6° ™ 50'04		morning max el	10536 Jun 22 20:18	13° Ⅱ 09'48	26°02'27
					10536 Jul 06 10:36	0 \circ \odot	
superior conj	10535 Aug 24 08:52	10° m 50'18	0°18'46		10536 Jul 25 07:01	$0^{\circ}\Omega$	
minimum elong	10535 Aug 24 07:56	10° m/45'20	0°18'22	morning set	10536 Jul 28 21:17	6° Ω 30′27	
evening rise	10535 Aug 31 14:07	26° m 13'16		max. Earth dist.	10536 Aug 01 17:15	13° Ω 44'48	1.35275 AU
5	10535 Sep 02 09:26	0∘ ⊽					
	10535 Sep 02 05:20 10535 Sep 21 04:09	0° m .		superior conj	10536 Aug 07 04:00	24° Ω 33'18	-0°11'20
evening max el	10535 Sep 21 04:09 10535 Sep 21 06:07	0°M04'52	21°54'11	minimum elong	10536 Aug 07 04:00 10536 Aug 07 04:41	$24^{\circ} \Omega 36'46$	
desc. node	=	3°M25'26	∠1 J † 11	_	-	24 δ <i>l</i> 36 46 24° Ω 15'07	0 11 33
	10535 Sep 25 06:27			behind sun begin	10536 Aug 07 00:26		
retrograde	10535 Oct 03 19:45	6°M20'04		behind sun end	10536 Aug 07 08:57	24°Ω58'26	
evening set	10535 Oct 06 19:38	5° ™ 59'57		asc. node	10536 Aug 08 07:51	26° Ω 55'27	

	10536 Aug 09 19:42	0° m)		asc. node	10537 Jul 26 04:43	16° Ω 57'15	
evening rise	10536 Aug 14 22:10	10° m 35'15		evening rise	10537 Jul 30 01:04	24° Ω 39'48	
	10536 Aug 25 03:51	0∘ 亚			10537 Aug 01 17:44	0° m	
evening max el	10536 Sep 02 06:08	10° ≙ 43'15	20°27'35	evening max el	10537 Aug 15 20:02	22°Mp07'50	19°20'49
desc. node	10536 Sep 11 03:44	16° ≏ 00'43		retrograde	10537 Aug 25 05:09	26° Mp 47'22	
retrograde	10536 Sep 13 07:59	16° £ 13'06		evening set	10537 Aug 27 01:17	26° m 37'24	
evening set	10536 Sep 15 09:22	16° ₽ 02'32	2055120	desc. node	10537 Aug 29 00:59	26° Mp 05'41	2002140
inferior conj minimum elong	10536 Sep 24 11:58 10536 Sep 24 02:19	12° ♀ 05'38 12° ♀ 19'40	3°52'37	inferior conj minimum elong	10537 Sep 04 16:32 10537 Sep 04 11:02	22° Tp 29'21 22° Tp 38'22	2°01'48
min. Earth dist.	10536 Sep 24 02.19 10536 Sep 25 18:35	12 = 1940 11° ⊆ 21'05	0.54765 AU	min. Earth dist.	10537 Sep 04 11:02 10537 Sep 07 06:39	20° To 48'02	0.55764 AU
morning rise	10536 Oct 02 18:46	8° £ 03'04	0.54705710	morning rise	10537 Sep 07 00:39 10537 Sep 12 18:06	17° m) 54'24	0.55704710
direct	10536 Oct 07 02:00	7° £ 23'18		direct	10537 Sep 17 21:05	16° m 54'36	
morning max el	10536 Oct 20 10:56	13° ≏ 52'25	23°36'22	morning max el	10537 Oct 01 22:26	24° m 00'32	25°21'01
	10536 Nov 01 20:17	0°M₊			10537 Oct 07 09:42	0∘ ⊽	
asc. node	10536 Nov 04 08:26	4°M17'33		asc. node	10537 Oct 22 05:16	23° ≏ 22'11	
morning set	10536 Nov 13 07:03	21°M56'49			10537 Oct 25 13:48	0° M	
	10536 Nov 17 00:37	0° ∡		morning set	10537 Oct 28 18:37	6°M41'46	
superior conj	10536 Nov 20 04:44	6° ∡ ¹53'26	1°39'48	superior conj	10537 Nov 04 14:25	21°M38'50	1°37'42
minimum elong	10536 Nov 20 04:53	6° ₰ ¹54'16	1°40'16	minimum elong	10537 Nov 04 13:29	21°M33'43	1°38'02
max. Earth dist.	10536 Nov 22 20:55	12° ∡ ³37'17	1.33143 AU	max. Earth dist.	10537 Nov 06 00:38	24°M46'57	1.32109 AU
evening rise	10536 Nov 27 19:53	22° ∡ 750′56			10537 Nov 08 10:16	0° ∡	
	10536 Dec 01 12:01	0°ਰ		evening rise	10537 Nov 11 17:43	6° ₹ 59'23	
desc. node	10536 Dec 08 01:46	11° る 49'50			10537 Nov 24 00:07	0°る	
	10536 Dec 19 20:26	0° ≈	25020155	desc. node	10537 Nov 24 22:50	1°る34'30	2702011.4
evening max el	10536 Dec 31 22:55	14°≈18'31	27°23'57	evening max el	10537 Dec 14 09:10	27° る 14'31	27°29'14
retrograde evening set	10537 Jan 14 13:26 10537 Jan 21 10:17	21°≈41'39 19°≈09'20		retrograde	10537 Dec 17 13:28 10537 Dec 28 05:11	0° ≈ 4° ≈ 32'41	
min. Earth dist.	10537 Jan 25 06:04	15°≈42'09	0.64318 AU	evening set	10538 Jan 04 05:37	4 ≈32 41 2°≈10'27	
inferior conj	10537 Jan 27 17:45	13°≈04'08		evening set	10538 Jan 07 00:48	30°Rる	
minimum elong	10537 Jan 27 19:57	12°≈58'16	1°09'51	min. Earth dist.	10538 Jan 07 22:50	29°る10'49	0.62413 AU
asc. node	10537 Jan 31 07:38	9° ≈ 34'58		inferior conj	10538 Jan 10 20:27	26° පි 26'18	-2°23'56
morning rise	10537 Feb 03 07:29	7° ≈ 40'28		minimum elong	10538 Jan 11 01:14	26° ප 14'57	2°21'34
direct	10537 Feb 05 19:37	7° ≈ 08'31		morning rise	10538 Jan 17 23:16	21° る 19'24	
morning max el	10537 Feb 12 05:57	10° ≈ 29'06	17°51'32	asc. node	10538 Jan 18 04:47	21° る 15'00	
	10537 Feb 25 15:27	0° ∀		direct	10538 Jan 20 05:21	20° る 56'22	
morning set	10537 Mar 01 06:16	6° ∺ 05'19		morning max el	10538 Jan 26 23:15	24° る 22'48	17°47'44
desc. node	10537 Mar 06 01:54	14° ₩ 10'12			10538 Jan 31 13:02	0° ≈	
	1052534 14 15 25	2001/11/20	1000155	morning set	10538 Feb 11 20:44	18°≈56'43	
superior conj	10537 Mar 14 15:27	28°¥11'30		daga mada	10538 Feb 18 03:48	0°) (4°¥47!22	
minimum elong	10537 Mar 14 08:48 10537 Mar 15 18:30	27°) 44'46 0° °	0-3937	desc. node	10538 Feb 20 22:39	4°) 47′32	
max. Earth dist.	10537 Mar 19 12:46	5° Υ 58'49	1.45066 AU	superior conj	10538 Feb 23 08:58	8°) 54'25	-0°18'16
evening rise	10537 Mar 30 12:08	23° Υ '02'14	1.43000 AC	minimum elong	10538 Feb 23 07:11	8°) 46'56	
	10537 Apr 04 01:37	0°8		max. Earth dist.	10538 Mar 02 05:19	20°) 10'48	1.43833 AU
greatest brilliancy	10537 Apr 14 12:36	15° 8 36'28	-0.6m		10538 Mar 08 09:56	0° Υ	
	10537 Apr 25 08:58	$\Pi^{\circ}0$		evening rise	10538 Mar 10 01:25	2° Y 33'26	
evening max el	10537 Apr 26 18:21	1° Ⅱ 28'45	20°10'06		10538 Mar 28 13:43	0° 8	
asc. node	10537 Apr 29 05:34	3° Ⅱ 42′28		evening max el	10538 Apr 09 16:31	15° 8 11'59	21°19'08
retrograde	10537 May 04 12:48	5° Ⅱ 57'45		asc. node	10538 Apr 16 02:46	19° 8 54'24	
evening set	10537 May 08 10:31	4° Ⅱ 29'33		retrograde	10538 Apr 18 11:12	20° 8 21'27	
	10537 May 12 14:13	30°R8	201.4152	evening set	10538 Apr 22 19:00	18° 8 37'37	2000154
inferior conj	10537 May 13 17:58	28° 8 26'41	3°14'52	inferior conj	10538 Apr 28 01:44	12° 8 23'23	3°00'54
minimum elong min. Earth dist.	10537 May 13 17:13 10537 May 14 14:23	28° 8 29'15 27° 8 17'17	3°14'24 0.67790 AU	minimum elong min. Earth dist.	10538 Apr 28 00:09 10538 Apr 28 08:44	12° 8 28'54 11° 8 59'00	3°00'21 0.68447 AU
morning rise	10537 May 14 14.23 10537 May 18 23:37	27 81717 22°807'42	0.07790 AU	morning rise	10538 Apr 28 08.44 10538 May 03 05:04	6° 8 08'31	0.06447 AU
direct	10537 May 16 25:37 10537 May 24 16:34	19° 8 35'18		direct	10538 May 08 08:59	3° 8 52'56	
desc. node	10537 Jun 02 02:30	23° 8 35'37		morning max el	10538 May 18 15:49	9° 8 59'40	23°09'34
morning max el	10537 Jun 05 06:01		24°39'19	desc. node	10538 May 19 23:25	11° 8 21'56	
Č	10537 Jun 08 11:04	0°II			10538 Jun 03 10:49	0°Щ	
	10537 Jun 30 00:32	0ං ව		morning set	10538 Jun 22 07:37	29° Ⅱ 13'24	
morning set	10537 Jul 11 01:52	18°524'08			10538 Jun 22 18:47	0°©	
max. Earth dist.	10537 Jul 14 16:20	24°950'48	1.37363 AU	max. Earth dist.	10538 Jun 26 12:55	6° © 23'20	1.39647 AU
	10537 Jul 17 11:18	0 \circ Ω					
	10505 7 1 2 1 1 1	70 0 (*****	004410:	superior conj	10538 Jul 04 06:08	20°510'05	
superior conj	10537 Jul 21 12:24	7° Ω 43'08		minimum elong	10538 Jul 04 11:19	20°533'58	1°16'54
minimum elong	10537 Jul 21 15:17	7° Ω 57'05	U 44 UU		10538 Jul 09 11:50	$0^{\circ}\Omega$	

asc. node	10538 Jul 13 01:37	6° Ω 51'14			10539 Jun 15 04:49	0°©	
evening rise	10538 Jul 13 19:49	8° Ω 18'42					
	10538 Jul 26 06:57	0° ™		superior conj	10539 Jun 16 04:38	1° 5 43'31	-1°46'50
evening max el	10538 Jul 29 21:37	4° Mp 16'57	18°35'20	minimum elong	10539 Jun 16 11:05	2° © 11'37	1°46'42
retrograde	10538 Aug 06 20:13	8° Mp 15'20		evening rise	10539 Jun 27 02:39	21° © 22'27	
evening set	10538 Aug 08 20:53	8° m 00'39		asc. node	10539 Jun 29 22:33	26° © 32'53	
desc. node	10538 Aug 15 22:12	4° Mp 09′52			10539 Jul 01 20:27	$0^{\circ}\Omega$	
inferior conj	10538 Aug 16 17:25	3° m 33'25	-0°14'47	evening max el	10539 Jul 13 06:54	17° Ω 01'04	18°10'19
minimum elong	10538 Aug 16 16:50	3° Mp 34'32	0°14'49	retrograde	10539 Jul 20 06:13	20° Ω 33'15	
transit middle	10538 Aug 16 16:50	3°m/34'32	0°14'49	evening set	10539 Jul 22 14:17	20° Ω 09'58	
transit begin	10538 Aug 16 15:25	3° m 37'16		inferior conj	10539 Jul 29 15:53	15° Ω 21'51	1°12'46
transit end	10538 Aug 16 18:16	3° m 31'49		minimum elong	10539 Jul 29 18:03	15° Ω 17'00	1°11'37
min. Earth dist.	10538 Aug 19 23:38	1° Mp 05'01	0.57499 AU	min. Earth dist.	10539 Aug 01 23:38	12° Ω 25′07	0.59659 AU
	10538 Aug 21 12:55	30° ₽ Ω		desc. node	10539 Aug 02 19:27	11° Ω 44'09	
morning rise	10538 Aug 24 09:18	28° Ω 21′20		morning rise	10539 Aug 05 18:42	9° Ω 38'07	
direct	10538 Aug 30 06:31	26° Ω 54'37		direct	10539 Aug 12 04:57	7° Ω 42'02	
	10538 Sep 08 04:01	o∘ mp		morning max el	10539 Aug 26 13:17	15° Ω 33'14	27°41'22
morning max el	10538 Sep 13 14:15	4° m) 27'21	26°47'15	C	10539 Sep 07 07:38	0° m	
C	10538 Oct 02 05:10	0∘ <u>⊽</u>			10539 Sep 24 16:06	0∘ <mark>⊽</mark>	
asc. node	10538 Oct 09 02:06	12° ♀ 51'03		asc. node	10539 Sep 25 22:54	2° ₽ 36'34	
morning set	10538 Oct 13 04:29	21° ≏ 19'11		morning set	10539 Sep 27 10:53	5° ≏ 43'18	
C	10538 Oct 17 04:19	0° M .		max. Earth dist.	10539 Oct 03 18:32	19° ≏ 25'26	1.31480 AU
superior conj	10538 Oct 20 01:58	6° ™ 26'49	1°29'48	superior conj	10539 Oct 04 13:30	21° ≏ 10'47	1°16'26
minimum elong	10538 Oct 20 00:14	6° ™ 17'06	1°29'54	minimum elong	10539 Oct 04 11:19	20° ≏ 58'36	1°16'16
max. Earth dist.	10538 Oct 20 09:05	7° ™ 06'24	1.31554 AU		10539 Oct 08 12:56	0°M	
evening rise	10538 Oct 26 22:10	21°M24'30		evening rise	10539 Oct 11 06:52	5°M58'43	
	10538 Oct 31 02:36	0° ∡ ¹			10539 Oct 23 18:17	0° ∡	
desc. node	10538 Nov 11 19:58	20° ∡ ¹46'35		desc. node	10539 Oct 29 17:09	9° ∡ 12'28	
	10538 Nov 18 06:06	0°₹		evening max el	10539 Nov 08 11:53	20° ₰ 751'14	25°59'14
evening max el	10538 Nov 26 14:26	9° そ 28'55	27°01'05	retrograde	10539 Nov 22 09:35	27° ₹ 53'44	
retrograde	10538 Dec 10 12:23	16° る 38'57		evening set	10539 Nov 28 17:34	26° ₰ 18'59	
evening set	10538 Dec 17 09:33	14° る 36'09		min. Earth dist.	10539 Dec 03 00:37	23° ∡ ⁴43'42	0.58240 AU
min. Earth dist.	10538 Dec 21 04:58	11° る 55'36	0.60332 AU	inferior conj	10539 Dec 06 02:44	21° ∡ ³30′26	-4°48'47
inferior conj	10538 Dec 24 08:38	9° る 18'44		minimum elong	10539 Dec 06 10:36	21° ∡ 16′14	4°46'27
minimum elong	10538 Dec 24 15:50	9° る 03'45	3°36'27	morning rise	10539 Dec 14 06:06	17° ∡ 06′06	
morning rise	10539 Jan 01 00:45	4° る 31'48		direct	10539 Dec 16 11:03	16° ₹ 750′18	
direct	10539 Jan 03 04:00	4° る 14'03		asc. node	10539 Dec 22 22:57	19° ∡ 17'01	
asc. node	10539 Jan 05 01:52	4° ප 28'51		morning max el	10539 Dec 24 20:30	20° ₹ 55'22	18°38'00
morning max el	10539 Jan 10 13:21	7° る 55'13	18°02'39		10539 Dec 31 18:38	0°ಕ	
	10539 Jan 24 18:34	0° ≈		morning set	10540 Jan 09 23:23	16° පි 46'04	
morning set	10539 Jan 26 04:12	2° ≈ 35'49			10540 Jan 16 19:54	0° ≈	
superior conj	10539 Feb 05 03:12	20° ≈ 47'17	0°20'26	superior conj	10540 Jan 18 18:13	3° ≈ 38'16	0°51'47
minimum elong	10539 Feb 05 04:50	20°≈54'31	0°20'32	minimum elong	10540 Jan 18 21:13	3°≈52'18	0°51'49
desc. node	10539 Feb 07 19:29	25°≈29'05	0 20 32	desc. node	10540 Jan 25 16:19	16°≈10'40	0 31 47
desc. node	10539 Feb 10 10:36	0° \		max. Earth dist.	10540 Jan 26 02:05	16°≈53'22	1.39946 AU
max. Earth dist.	10539 Feb 12 17:57	3° ¥ 52'52	1.42064 AU	evening rise	10540 Jan 30 04:23	23°≈53'49	1.57740710
evening rise	10539 Feb 18 04:36	12°) 46'14	1. 1 2004 A0	evening rise	10540 Feb 02 21:16	0° ∺	
evening rise	10539 Mar 01 09:16	0°Υ			10540 Feb 23 05:38	0°Υ	
evening max el	10539 Mar 01 09:10 10539 Mar 23 09:58	28° Υ ′57'07	22°36'36	evening max el	10540 Mar 05 00:22	12° Υ '44'46	23°57'02
evening max er	10539 Mar 24 11:47	0° 8	22 30 30	retrograde	10540 Mar 16 01:30	12 \ \ \ 44 \ 40 \ \ \ \ \ \ \ \ \ \ \ \ \	23 37 02
ratragrada	10539 Mai 24 11.47 10539 Apr 02 07:51	4° 8 48'41		asc. node	10540 Mar 19 21:13	19 γ 14 43	
retrograde		4°846'30				18 γ 00 19 17° γ 02'01	
asc. node	10539 Apr 02 23:58	2° 8 49'44		evening set	10540 Mar 21 08:14	11° Y 33'36	0.69415.411
evening set	10539 Apr 07 02:44			min. Earth dist.	10540 Mar 26 01:38		0.68415 AU
	10539 Apr 09 19:07	30°₹ Υ	2027152	inferior conj	10540 Mar 26 19:20	10° Υ 33'24	2°03'24
inferior conj	10539 Apr 12 10:49	26° Y 26'37	2°36'52	minimum elong	10540 Mar 26 17:10	10° Υ 40'48	2°02'40
minimum elong	10539 Apr 12 08:44	26° Y 33'52	2°36'11	morning rise	10540 Apr 01 02:09	4°Υ30'50	
min. Earth dist.	10539 Apr 12 05:12	26° Y 46′07	0.68653 AU	direct	10540 Apr 05 03:18	2°Υ58'04	2002442
morning rise	10539 Apr 17 14:35	20° ℃ 17'19		morning max el	10540 Apr 13 00:56	7°Υ26'25	20°24'43
direct	10539 Apr 22 04:58	18° Y ′22'32		desc. node	10540 Apr 22 17:09	19° Y ′21'47	
morning max el	10539 May 01 05:04	23° Y 36'49	21°42'22		10540 Apr 30 02:35	0° 8	
desc. node	10539 May 06 20:18	0° 8 02'09		morning set	10540 May 11 15:46	17° 8 29'25	
	10539 May 06 19:37	0°₽			10540 May 19 14:55	0°П	
	10539 May 27 19:34	0°Щ		max. Earth dist.	10540 May 20 22:06	2° Ⅱ 04'54	1.43717 AU
morning set	10539 Jun 02 10:53	8° Ⅱ 50'07					
max. Earth dist.	10539 Jun 08 14:00	18° Ⅱ 47'24	1.41859 AU	superior conj	10540 May 27 03:55	12° Ⅱ 15'36	2007120

minimum elong	10540 May 27 08:28 10540 Jun 06 14:23	12° ∏ 34'27 0°໑	2°07'46	max. Earth dist.	10541 Apr 23 05:23 10541 May 03 12:12	0° と 16° と 02'38	1.45016 AU
evening rise	10540 Jun 08 17:04	3°5540'39		max. Earth dist.	10341 May 03 12.12	10 002 36	1.43010 AU
asc. node	10540 Jun 15 19:33	15° © 57'25		superior conj	10541 May 07 03:26	21° 8 47'57	-2°12'31
	10540 Jun 25 15:40	0°N		minimum elong	10541 May 07 01:41	21° 8 40'59	
evening max el	10540 Jun 25 20:02	0°Ω10'55	18°04'42		10541 May 12 06:09	0°II	
retrograde	10540 Jul 02 07:18	3° Ω 32'02		evening rise	10541 May 21 10:09	15° Ⅱ 02'12	
evening set	10540 Jul 04 23:11	2° Q 57′10			10541 May 30 12:06	0ಂಣ	
	10540 Jul 09 04:01	30° ℝ ∽		asc. node	10541 Jun 02 16:37	4° 9 58'03	
inferior conj	10540 Jul 11 08:58	27° 5 49'48	2°14'31	evening max el	10541 Jun 09 09:39	13° © 37'36	18°17'42
minimum elong	10540 Jul 11 11:45	27° 5 42'40	2°13'17	retrograde	10541 Jun 15 18:50	17° 5 01'37	
min. Earth dist.	10540 Jul 14 08:35	24° © 47'31	0.61927 AU	evening set	10541 Jun 18 18:33	16° © 13'05	
morning rise	10540 Jul 17 22:05	21° 5 44'41		inferior conj	10541 Jun 24 16:28	10°948'20	2°53'12
desc. node	10540 Jul 19 16:40	20° © 39'08		minimum elong	10541 Jun 24 18:37	10°9542'11	2°52'17
direct	10540 Jul 24 14:33	19°522'49		min. Earth dist.	10541 Jun 27 02:55	8°901'40	0.64048 AU
morning max el	10540 Aug 07 18:51		27°57'07	morning rise	10541 Jun 30 17:21	4°931'53	
	10540 Aug 10 05:56	0° Ω		desc. node direct	10541 Jul 06 13:50	1°555'21	
morning set	10540 Aug 31 01:03 10540 Sep 10 11:52	0° т) 19° т)48'57		morning max el	10541 Jul 07 09:26 10541 Jul 21 04:18	1° © 53'06 9° © 54'57	27°35'38
asc. node	10540 Sep 10 11:32 10540 Sep 11 19:43	22° m/33'22		morning max er	10541 Aug 05 21:44	9 3 3437 0° Ω	27 33 36
asc. node	10540 Sep 15 07:52	0ಂ ರ			10541 Aug 23 10:11	0° m)	
max. Earth dist.	10540 Sep 16 01:04	ა <u>ი</u> 33'08	1.31894 AU	morning set	10541 Aug 25 04:57	3° m)29'12	
				asc. node	10541 Aug 29 16:33	12° Mp 36'28	
superior conj	10540 Sep 17 23:14	5° ≏ 45'27	0°57'51	max. Earth dist.	10541 Aug 30 00:37	13° m) 18'38	1.32812 AU
minimum elong	10540 Sep 17 21:04	5° ≏ 33'34	0°57'29		-		
evening rise	10540 Sep 24 17:52	20° ≏ 36'31		superior conj	10541 Sep 02 05:10	20° Mp 04'55	0°34'21
	10540 Sep 29 06:00	0° M		minimum elong	10541 Sep 02 03:36	19° m 56'29	0°33'54
desc. node	10540 Oct 15 14:22	26°M34'18			10541 Sep 06 19:12	0∘ ⊽	
	10540 Oct 18 15:26	0° ∡ ¹		evening rise	10541 Sep 09 05:15	5° £ 12'11	
evening max el	10540 Oct 20 01:21	1° ⋌ ¹24'44	24°30'48		10541 Sep 22 09:19	0° M	
retrograde	10540 Nov 02 19:26	8° ₹ 18'33		evening max el	10541 Oct 01 12:05		22°50'35
evening set	10540 Nov 08 01:36	7°×717'13	0.5(29(AII	desc. node	10541 Oct 02 11:38	12°M27'58	
min. Earth dist. inferior conj	10540 Nov 13 12:29 10540 Nov 16 00:26	4° х ⁷ 28′28 2° х ⁷ 54′08	0.56386 AU	retrograde evening set	10541 Oct 14 16:51 10541 Oct 18 11:44	18° M .07'01 17° M .35'41	
minimum elong	10540 Nov 16 00:28	2° x '34'08 2° x '47'14		min. Earth dist.	10541 Oct 18 11.44 10541 Oct 25 20:36		0.55079 AU
minimum ciong	10540 Nov 21 03:12	30°RM	3 33 30	inferior conj	10541 Oct 27 03:20	13°M231'15	
morning rise	10540 Nov 24 10:11	28°M51'37		minimum elong	10541 Oct 26 23:52	13°MJ36'14	
direct	10540 Nov 26 22:48	28°M34'26		morning rise	10541 Nov 04 13:43	9°M42'27	
	10540 Dec 02 09:12	0° ∡ ¹		direct	10541 Nov 07 16:21	9°M20'00	
morning max el	10540 Dec 06 16:58	3° ∡ 13′08	19°35'28	morning max el	10541 Nov 19 00:00	14° M L40'39	20°55'36
asc. node	10540 Dec 08 20:00	5° ∡ 727'46		asc. node	10541 Nov 25 16:59	22°M45'07	
	10540 Dec 23 11:13	5°0			10541 Nov 30 05:06	0° ∡ ¹	
morning set	10540 Dec 24 02:26	1° る 16'22		morning set	10541 Dec 08 10:33	15° ∡ 58′56	
					10541 Dec 15 03:56	0° ප	
superior conj	10541 Jan 01 01:07		1°14'57		10541 5 15 10 22	10-700100	1020112
minimum elong	10541 Jan 01 04:02	17°る27'41	1°15'08	superior conj	10541 Dec 15 19:33		1°30'12
max. Earth dist.	10541 Jan 07 07:59 10541 Jan 07 18:12	29°る13'01 0°≈	1.37737 AU	minimum elong max. Earth dist.	10541 Dec 15 21:35 10541 Dec 20 16:47	1°る30'55 11°る09'20	1°30'34 1.35677 AU
evening rise	10541 Jan 11 01:17	0 ≈ 5° ≈ 56'16		evening rise	10541 Dec 24 16:33	11 30920 18° 3 46'41	1.330// AU
desc. node	10541 Jan 11 13:11	6°≈48'42		desc. node	10541 Dec 29 10:06	27°る19'27	
dese. node	10541 Jan 25 20:07	0° ∀		dese. node	10541 Dec 30 23:09	0°≈	
evening max el	10541 Feb 15 13:38	26°) 34′03	25°13'52		10542 Jan 19 23:51	0°) €	
C	10541 Feb 19 10:40	0° Y		evening max el	10542 Jan 29 03:06	10°) 21′57	26°19'49
retrograde	10541 Feb 27 15:05	3° Y ′33'22		retrograde	10542 Feb 10 23:34	17°) 38'31	
evening set	10541 Mar 05 09:53	1° Y 09'21		evening set	10542 Feb 17 05:58	15° ∺ 07'02	
asc. node	10541 Mar 06 18:29	29°) 52'44		min. Earth dist.	10542 Feb 21 09:45	10°) 47′54	0.66708 AU
	10541 Mar 06 15:39	30° ₹		asc. node	10542 Feb 21 15:44	10° 米 29'51	
min. Earth dist.	10541 Mar 09 19:52	26° ¥ 15'48	0.67757 AU	inferior conj	10542 Feb 23 03:03	8°) 41′51	0°28'42
inferior conj	10541 Mar 11 01:25	24°) 39'41	1°20'38	minimum elong	10542 Feb 23 02:18	8°\(\)44'08	0°28'38
minimum elong	10541 Mar 10 23:39	24°) 45'24	1°20'05	morning rise	10542 Feb 28 23:29	2°\(\frac{1}{2}\)57'10	
morning rise direct	10541 Mar 16 13:47 10541 Mar 20 02:42	18°) 45'11 17°) 33'15		direct	10542 Mar 04 01:29 10542 Mar 10 15:17	2° ∺ 03′28 5° ∺ 35′28	18°32'51
morning max el	10541 Mar 20 02:42 10541 Mar 27 04:36		19°20'50	morning max el desc. node	10542 Mar 10 15:17 10542 Mar 27 10:42	29° H 18'24	10 32 31
morning max ci	10541 Apr 03 05:36	21 π 2/13 0° Υ	17 20 30	desc. Hode	10542 Mar 27 10.42 10542 Mar 27 21:16	29 Υ 1824 0° Υ	
greatest brilliancy	10541 Apr 08 23:36	8° Υ 16'19	-0.7m	morning set	10542 Mar 31 09:52	5° Υ 33'19	
desc. node	10541 Apr 09 13:57	9° Y 09'39		3 ,	10542 Apr 15 23:45	0°8	
morning set	10541 Apr 20 15:45	26° Ƴ 01'59			•		

superior conj	10542 Apr 16 11:22	0° 8 45'28		morning set	10543 Mar 12 08:52	16°) €31'07	
minimum elong	10542 Apr 16 03:01	0° 8 12'47		desc. node	10543 Mar 14 07:24	19°) (41′40	
max. Earth dist.	10542 Apr 16 06:25	0° 8 26'04	1.45627 AU		10543 Mar 20 15:49	0° Ƴ	
evening rise	10542 May 02 03:13	25° 8 24'21				00	
	10542 May 05 00:38	0°Щ		superior conj	10543 Mar 26 20:40	9° Y 53'18	
greatest brilliancy	10542 May 10 18:25	9° Ⅱ 05'02	-0.8m	minimum elong	10543 Mar 26 11:47		1°23'35
asc. node	10542 May 20 13:44	23° II 26'56		max. Earth dist.	10543 Mar 30 02:26	14° Y 59′25	1.45491 AU
evening max el	10542 May 23 21:00	27° Ⅱ 14'36	18°48'32		10543 Apr 08 17:53	0° 8	
	10542 May 27 08:33	0 \circ		evening rise	10543 Apr 11 23:36	5° 8 00'05	
retrograde	10542 May 30 12:55	0° 9 54'35		greatest brilliancy	10543 Apr 25 10:51	25° 8 31'13	-0.7m
evening set	10542 Jun 02 20:46	29° Ⅱ 50'59			10543 Apr 28 12:36	Π °0	
	10542 Jun 02 14:51	30°RⅡ		evening max el	10543 May 07 03:55	10° Ⅱ 56′01	19°36'02
inferior conj	10542 Jun 08 10:35	24° Ⅱ 10′19	3°13'03	asc. node	10543 May 07 10:53	11° Ⅱ 13'21	
minimum elong	10542 Jun 08 11:36	24° Ⅱ 07'08	3°12'27	retrograde	10543 May 14 10:32	15° Ⅱ 03'55	
min. Earth dist.	10542 Jun 10 06:02	21° Ⅱ 55'01	0.65846 AU	evening set	10543 May 18 03:03	13° Ⅱ 44'36	
morning rise	10542 Jun 14 01:44	17° Ⅱ 49'48		inferior conj	10543 May 23 12:01	7° Ⅱ 49'22	
direct	10542 Jun 20 11:47	15° Ⅱ 05'29		minimum elong	10543 May 23 11:52	7° Ⅱ 49'51	3°17'23
desc. node	10542 Jun 23 10:55	15° Ⅲ 35'38		min. Earth dist.	10543 May 24 16:32	6° Ⅱ 14'47	0.67216 AU
morning max el	10542 Jul 03 14:55	22° Ⅲ 53'15	26°43'07	morning rise	10543 May 28 20:19	1° Ⅱ 29'11	
	10542 Jul 09 21:36	0°©			10543 May 30 19:56	30° ₹ 8	
	10542 Jul 30 05:02	$0^{\circ}\Omega$		direct	10543 Jun 03 20:15	28° 8 50'07	
morning set	10542 Aug 08 11:05	16° £ 36′21			10543 Jun 08 05:52	$\Pi^{\circ}0$	
max. Earth dist.	10542 Aug 12 14:20	24° Ω 39'14	1.34242 AU	desc. node	10543 Jun 10 07:55	1° Ⅱ 13'51	
	10542 Aug 15 05:51	0° m)		morning max el	10543 Jun 16 01:04	6° Ⅱ 08'43	25°28'27
asc. node	10542 Aug 16 13:22	2° Mp 42'05			10543 Jul 04 11:47	0 \circ \odot	
				morning set	10543 Jul 22 02:22	29° © 00'17	
superior conj	10542 Aug 17 05:02	4° Mp 03'23	0°06'26		10543 Jul 22 15:31	$0^{\circ}\Omega$	
minimum elong	10542 Aug 17 04:42	4° m 01'39	0°06'05	max. Earth dist.	10543 Jul 25 18:09	5° Ω 45'32	1.36128 AU
behind sun begin	10542 Aug 16 23:19	3° Mp 33'41					
behind sun end	10542 Aug 17 10:05	4° m 29'39		superior conj	10543 Jul 31 20:03	17° Ω 33'38	-0°25'00
evening rise	10542 Aug 24 15:07	19° m 40'47		minimum elong	10543 Jul 31 21:37	17° Ω 41'24	0°25'06
•	10542 Aug 29 17:05	0∘ ⊽		asc. node	10543 Aug 03 10:12	22° Ω 46'33	
evening max el	10542 Sep 13 05:13	21° ≏ 51'08	21°15'16		10543 Aug 06 23:03	0° m	
desc. node	10542 Sep 19 08:54	26° ₽ 23'54		evening rise	10543 Aug 08 21:19	3° m 56'31	
retrograde	10542 Sep 25 04:52	27° ₽ 47'59		C	10543 Aug 23 22:28	0∘ ⊽	
evening set	10542 Sep 27 16:58	27° ₽ 33'27		evening max el	10543 Aug 26 11:12	2° ≏ 48'35	19°56'34
inferior conj	10542 Oct 06 19:47	23° ₽ 37'59	-4°48'47	retrograde	10543 Sep 05 19:12	7° ≏ 56'28	
minimum elong	10542 Oct 06 10:16	23° ≏ 51'20	4°46'24	desc. node	10543 Sep 06 06:12	7° Ω 55'53	
min. Earth dist.	10542 Oct 07 04:07	23° ≏ 26'16	0.54605 AU	evening set	10543 Sep 07 16:53	7° ≏ 46'48	
morning rise	10542 Oct 15 04:10	19° ≏ 46'36		inferior conj	10543 Sep 16 16:03	3° ≏ 46′24	-3°09'44
direct	10542 Oct 19 00:51	19° ≏ 14'27		minimum elong	10543 Sep 16 07:43	3° ჲ 59'02	3°06'50
morning max el	10542 Oct 31 18:19	25° ₽ 19'19	22°34'45	min. Earth dist.	10543 Sep 18 13:36	2° ≏ 37'25	0.55083 AU
C	10542 Nov 05 02:11	0° M .			10543 Sep 23 14:46	30°R. M⊅	
asc. node	10542 Nov 12 13:55	10°M53'27		morning rise	10543 Sep 24 21:10	29° m 32'00	
morning set	10542 Nov 22 21:26	0° ∡ ¹46'25		direct	10543 Sep 29 12:57	28° m/44'42	
	10542 Nov 22 12:38	0° ∡ ¹			10543 Oct 05 08:02	0∘ ⊽	
				morning max el	10543 Oct 13 05:59	5° Ω 29'48	24°22'09
superior conj	10542 Nov 29 21:58	15° ∡ ¹48'21	1°38'13	asc. node	10543 Oct 30 10:47	29° ≏ 40'35	
minimum elong	10542 Nov 29 22:49	15° ₹ '52'52	1°38'41		10543 Oct 30 14:59	0° M	
max. Earth dist.	10542 Dec 03 08:45	23° ₹ '03'02	1.33947 AU	morning set	10543 Nov 07 09:15	15°M33'53	
	10542 Dec 06 19:05	ರ°0		-			
evening rise	10542 Dec 07 22:20	2° る 14'03		superior conj	10543 Nov 14 05:40	0° ∡ ′29′16	1°39'38
desc. node	10542 Dec 16 07:03	17° る 37'21		minimum elong	10543 Nov 14 05:20	0° ∡ 27'29	1°40'04
	10542 Dec 23 21:16	0° ≈		_	10543 Nov 14 00:18	0° ∡	
evening max el	10543 Jan 11 16:38	23° ≈ 59'18	27°07'35	max. Earth dist.	10543 Nov 16 08:50	5° ∡ ¹06'58	1.32646 AU
C	10543 Jan 19 18:32	0° ∀		evening rise	10543 Nov 21 15:11	16° ₹ 09'41	
retrograde	10543 Jan 25 02:01	1° ¥ 21'45		C	10543 Nov 28 19:46	8°0	
-	10543 Jan 29 23:33	30°R ≈		desc. node	10543 Dec 03 04:07	7° る 36'26	
evening set	10543 Jan 31 18:27	28° ≈ 48'01			10543 Dec 18 13:20	0° ≈	
min. Earth dist.	10543 Feb 04 16:55	25° ≈ 02'27	0.65291 AU	evening max el	10543 Dec 25 04:41	7°≈13'50	27°30'02
inferior conj	10543 Feb 06 21:57	22° ≈ 33'45		retrograde	10544 Jan 07 21:38	14° ≈ 34'34	
minimum elong	10543 Feb 06 22:53	22° ≈ 31'07		evening set	10544 Jan 14 20:52	12° ≈ 05'29	
asc. node	10543 Feb 08 12:57	20° ≈ 46'44		min. Earth dist.	10544 Jan 18 15:16	8°≈50'53	0.63545 AU
morning rise	10543 Feb 13 04:45	17°≈01'23		inferior conj	10544 Jan 21 07:26	6° ≈ 08'47	
direct	10543 Feb 15 21:30	16°≈22'26		minimum elong	10544 Jan 21 10:42		1°39'32
morning max el	10543 Feb 22 06:49	19° ≈ 44'02	18°01'38	asc. node	10544 Jan 26 10:07	1° ≈ 42'52	
<i>3</i>	10543 Mar 02 02:58	0° ∀		morning rise	10544 Jan 28 02:35	0°≈51'46	
				<i>5</i>			

direct	10544 Jan 30 11:58	0°≈23'57		morning set	10545 Feb 04 09:09	12°≈00'27	
morning max el	10544 Feb 06 00:23	3°≈45'30	17°47'43		10545 Feb 14 12:13	0° ∀	
morning set	10544 Feb 22 10:43	28° ≈ 46'42 0°) €			10545 E-h 15 04-20	101/00/50	0901100
desc. node	10544 Feb 23 03:46 10544 Feb 29 04:08	10° ★ 15'03		superior conj minimum elong	10545 Feb 15 04:28 10545 Feb 15 04:23	1° ¥ 09'58 1° ¥ 09'37	
desc. node	10344 Feb 29 04.08	10 Д1303		behind sun begin	10545 Feb 14 19:56	0° ∺ 33'18	0 0049
superior conj	10544 Mar 06 00:05	19° ¥ 55'48	-0°42'42	behind sun end	10545 Feb 15 12:50	1° X 45'51	
minimum elong	10544 Mar 05 19:32	19° X 33'48	0°41'54	desc. node	10545 Feb 15 00:56	0° ¥ 54'46	
max. Earth dist.	10544 Mar 11 21:21	29° H 25'25	1.44626 AU	max. Earth dist.	10545 Feb 22 12:21	13° ¥ 26′22	1.43130 AU
max. Dartii dist.	10544 Mar 12 06:03	0°Υ	1.11020710	evening rise	10545 Mar 01 04:51	24°) 07'51	1.13130710
evening rise	10544 Mar 21 11:00	14° Υ 21'56		evening rise	10545 Mar 04 23:43	0°Υ	
evening noe	10544 Mar 31 19:30	0°8			10545 Mar 25 21:19	0°8	
evening max el	10544 Apr 19 05:14	24° 8 38'37	20°38'04	evening max el	10545 Apr 02 01:07	8° 8 22'34	21°51'16
asc. node	10544 Apr 23 08:04	28° 8 04'17		asc. node	10545 Apr 10 05:17	13° 8 44'53	
retrograde	10544 Apr 27 09:17	29° 8 24'06		retrograde	10545 Apr 11 07:19	13° 8 50'39	
evening set	10544 May 01 11:16	27° 8 48'57		evening set	10545 Apr 15 19:41	12° 8 00'12	
inferior conj	10544 May 06 18:07	21° 8 40'50	3°10'14	inferior conj	10545 Apr 21 02:44	5° 8 41'32	2°51'56
minimum elong	10544 May 06 16:59	21° 8 44'46	3°09'44	minimum elong	10545 Apr 21 00:53	5° 8 47'57	
min. Earth dist.	10544 May 07 08:37	20° 8 50'55	0.68130 AU	min. Earth dist.	10545 Apr 21 04:14	5° 8 36'17	0.68587 AU
morning rise	10544 May 11 22:29	15° 8 23'33			10545 Apr 25 16:21	30° Ŗ ♈	
direct	10544 May 17 09:56	12° 8 57'57		morning rise	10545 Apr 26 05:55	29° Y ′28'46	
desc. node	10544 May 27 04:52	18° 8 20'43		direct	10545 May 01 03:57	27° Y 21'56	
morning max el	10544 May 28 10:41	19° 8 33'44	24°01'23		10545 May 07 10:02	9° 8	
	10544 Jun 06 07:23	Π $^{\circ}0$		morning max el	10545 May 10 21:44	3° 8 06'38	22°31'42
	10544 Jun 26 15:24	0 \circ \odot		desc. node	10545 May 14 01:46	6° 8 32'38	
morning set	10544 Jul 02 21:50	10° © 27'55			10545 May 31 08:36	$\Pi^{\circ}0$	
max. Earth dist.	10544 Jul 06 15:46	17° 5 01'02	1.38329 AU	morning set	10545 Jun 13 16:39	20° Ⅱ 47'36	
				max. Earth dist.	10545 Jun 18 13:36	28° Ⅱ 53'57	1.40615 AU
superior conj	10544 Jul 13 22:42	0° Ω 26′10	-0°58'16		10545 Jun 19 05:09	0 \circ 50	
minimum elong	10544 Jul 14 02:35	0° Ω 44'39	0°58'05				
	10544 Jul 13 17:12	$0^{\circ}\Omega$		superior conj	10545 Jun 26 08:50	12° 5 31'46	-1°30'28
asc. node	10544 Jul 20 07:03	12° Ω 45′27		minimum elong	10545 Jun 26 14:48	12° © 58'34	1°30'12
evening rise	10544 Jul 22 21:10	17° Ω 51'22			10545 Jul 05 19:05	0 $^{\circ}$ Ω	
	10544 Jul 29 05:57	0° ™		evening rise	10545 Jul 06 11:26	1° Ω 17'03	
evening max el	10544 Aug 08 06:24	14° m 32'17	18°58'50	asc. node	10545 Jul 07 04:00	2° Ω 35′02	
retrograde	10544 Aug 16 23:49	18° m 53'12		evening max el	10545 Jul 22 11:45	26° Ω 57'30	18°22'12
evening set	10544 Aug 18 21:05	18° m 41'48			10545 Jul 26 16:59	0° m	
desc. node	10544 Aug 23 03:29	17° m 02'14		retrograde	10545 Jul 29 23:14	0° m 43'03	
inferior conj	10544 Aug 27 04:43	14° m) 25'45		evening set	10545 Aug 01 02:44	0° m/25'16	
minimum elong	10544 Aug 27 01:28	14° Tp 31'26	1°14'35		10545 Aug 02 08:13	30°RΩ	0005120
min. Earth dist.	10544 Aug 30 03:25	12° Mp 22'49	0.56426 AU	inferior conj	10545 Aug 08 15:01	25° Ω 49'17	0°25'30
morning rise	10544 Sep 04 02:41	9° Mp 34'46		minimum elong	10545 Aug 08 15:54	25° Ω 47'28 24° Ω 39'51	0°24'49
direct	10544 Sep 09 13:34	8° Mp 24'31	26°01'03	desc. node	10545 Aug 10 00:44	$23^{\circ} \Omega 05'49$	0.58387 AU
morning max el	10544 Sep 23 18:54 10544 Oct 05 08:13	15°Mp42'51 0° ⊆	20 01 03	min. Earth dist. morning rise	10545 Aug 11 23:29 10545 Aug 16 01:32	23 δι 03 49 20° Ω 22'14	0.36367 AU
asc. node	10544 Oct 16 07:36	0 = 18° ≏ 56'12		direct	10545 Aug 10 01:32 10545 Aug 22 04:57	$18^{\circ}\Omega 42'46$	
morning set	10544 Oct 21 20:18	0°M16'02		morning max el	10545 Sep 05 13:52	26° Ω 25'15	27°14'41
morning set	10544 Oct 21 17:18	0°M		morning max er	10545 Sep 08 23:15	0° m)	2/ 1441
	10311 000 21 17:10	O IIV			10545 Sep 28 19:15	0∘ ⊽	
superior conj	10544 Oct 28 16:22	15°M16'05	1°35'02	asc. node	10545 Oct 03 04:26	ა <u></u>	
minimum elong	10544 Oct 28 15:03	15°M08'48	1°35'17	morning set	10545 Oct 06 04:55	14° Ω 48'13	
max. Earth dist.	10544 Oct 29 14:59	17° M 21'18	1.31811 AU				
	10544 Nov 04 11:15	0° ∡ ¹		superior conj	10545 Oct 13 04:08	0°M02'55	1°24'46
evening rise	10544 Nov 04 16:06	0° ∡ ¹25'22		minimum elong	10545 Oct 13 02:09	29° ჲ 51'52	1°24'47
desc. node	10544 Nov 19 01:14	27° х 08′28		max. Earth dist.	10545 Oct 13 00:08	29° Ω 40'35	1.31458 AU
	10544 Nov 20 20:34	0°ಕ			10545 Oct 13 03:37	0° M	
evening max el	10544 Dec 06 12:56	19° る 52'23	27°21'25	evening rise	10545 Oct 19 22:36	14°M54'38	
retrograde	10544 Dec 20 09:53	27° る 07'34			10545 Oct 27 10:44	0° ∡ ¹	
evening set	10544 Dec 27 10:08	24° る 52'03		desc. node	10545 Nov 05 22:25	16° ∡ °02'37	
min. Earth dist.	10544 Dec 31 03:20	22° ප් 02'14	0.61540 AU		10545 Nov 16 20:43	ರ°0	
inferior conj	10545 Jan 03 04:21	19° る 18'52	-2°55'59	evening max el	10545 Nov 18 14:55	1° る 44'21	26°38'41
minimum elong	10545 Jan 03 10:15	19° る 05'37	2°53'17	retrograde	10545 Dec 02 13:26	8° る 52'04	
morning rise	10545 Jan 10 12:57	14° る 20'28		evening set	10545 Dec 09 06:13	7° る 00'05	
asc. node	10545 Jan 12 07:15	14° る 00'53		min. Earth dist.	10545 Dec 13 04:54	4° る 23'46	0.59419 AU
direct	10545 Jan 12 17:25	14° る 00'06		inferior conj	10545 Dec 16 09:12	1° る 54'40	-4°10'24
morning max el	10545 Jan 19 16:48	17° る 31'25	17°51'49	minimum elong	10545 Dec 16 17:02	1° る 39'18	4°07'34
	10545 Jan 28 14:25	0° ≈			10545 Dec 18 22:01	30°₽ ⋌ ¹	

	10545 D 24 06 22	270 717122			10546 D 06 01 27	00 722121	
morning rise	10545 Dec 24 06:33	27° 🖈 17'23		morning rise	10546 Dec 06 01:37	9° x ⁷ 32'31	
direct	10545 Dec 26 09:41	27°×701'01		direct	10546 Dec 08 08:56	9°×16'35	
asc. node	10545 Dec 30 04:21	27°≯55'18 0°පි		asc. node	10546 Dec 17 01:25	13°×720'49	18°59'37
	10546 Jan 02 06:07 10546 Jan 03 04:28	0°る51'30	18°15'11	morning max el	10546 Dec 17 07:32 10546 Dec 28 13:10	13° オ 35'21 0°る	18-3937
morning max el morning set	10546 Jan 18 22:07	0 3 3130 25° る 53'58	18 13 11	morning set	10547 Jan 02 21:06	0 3 10° る 14'26	
morning set	10546 Jan 21 02:05	25 O 55 58		morning set	1034/ Jan 02 21.00	10 01420	
	10340 Jan 21 02.03	0 ~		superior conj	10547 Jan 11 06:28	26° ප් 40'31	1°02'36
superior conj	10546 Jan 28 08:06	13° ≈ 29'01	0°34'42	minimum elong	10547 Jan 11 00:28	26°る55'20	1°02'40
minimum elong	10546 Jan 28 10:33	13°≈40'05	0°34'45	minimum ciong	10547 Jan 11 00:34 10547 Jan 13 00:30	0°≈	1 02 40
desc. node	10546 Feb 01 21:44	21°≈36'38	0 54 45	max. Earth dist.	10547 Jan 18 05:06	9° ≈ 31'27	1.39003 AU
max. Earth dist.	10546 Feb 04 22:25	26° ≈ 49'16	1.41180 AU	desc. node	10547 Jan 19 18:36	12°≈17'29	1.57005 710
max. Earth dist.	10546 Feb 06 19:44	0° ∀	1.11100710	evening rise	10547 Jan 22 01:24	16°≈15'17	
evening rise	10546 Feb 09 16:21	4°) 43′01		evening rise	10547 Jan 30 10:14	0° ∀	
	10546 Feb 26 05:29	0°Υ			10547 Feb 20 20:15	0°Υ	
evening max el	10546 Mar 15 17:00	22° Y ′08'41	23°10'53	evening max el	10547 Feb 26 06:53	5° Y 58′02	24°30'39
retrograde	10546 Mar 26 02:57	28° Ƴ 17'59		retrograde	10547 Mar 09 18:53	12° Ƴ 41'24	
asc. node	10546 Mar 28 02:32	27° Ƴ 59'04		asc. node	10547 Mar 14 23:47	10° Ƴ 38′08	
evening set	10546 Mar 31 02:40	26° Y 13′10		evening set	10547 Mar 15 06:42	10° Y 23'47	
inferior conj	10546 Apr 05 11:49	19° Y '47'07	2°23'51	min. Earth dist.	10547 Mar 19 20:53	5° Ƴ 10′04	0.68187 AU
minimum elong	10546 Apr 05 09:39	19° Ƴ 54'38	2°23'07	inferior conj	10547 Mar 20 19:33	3° Y 54'17	1°46'25
min. Earth dist.	10546 Apr 05 01:04	20° Y 24'16	0.68599 AU	minimum elong	10547 Mar 20 17:29	4° Υ 01'11	1°45'44
morning rise	10546 Apr 10 16:32	13° Y 40'15			10547 Mar 23 22:20	30° ₹	
direct	10546 Apr 15 01:11	11° Y 54'45		morning rise	10547 Mar 26 04:23	27°) 54′47	
morning max el	10546 Apr 23 13:26	16° Ƴ 48'49	21°07'50	direct	10547 Mar 30 00:18	26° ∺ 30′53	
desc. node	10546 Apr 30 22:37	25° Ƴ 31'14			10547 Apr 05 18:30	$0^{\circ}\Upsilon$	
	10546 May 04 06:19	9° 8		morning max el	10547 Apr 06 12:27	0° Y 42'54	19°55'39
morning set	10546 May 24 09:11	29° 8 56'21		desc. node	10547 Apr 17 19:25	15° Y 03'54	
	10546 May 24 10:07	Π $^{\circ}0$			10547 Apr 27 21:04	9° 8	
max. Earth dist.	10546 May 31 17:01	11° Ⅱ 39′33	1.42709 AU	morning set	10547 May 03 09:02	8° 8 24'11	
				max. Earth dist.	10547 May 14 03:56	25° 8 16'21	1.44355 AU
superior conj	10546 Jun 07 21:54	23° ∏ 40′16			10547 May 17 02:51	Π $^{\circ}0$	
minimum elong	10546 Jun 08 04:04		1°57'06				
	10546 Jun 11 14:01	0°©		superior conj	10547 May 19 10:47	3° Ⅱ 46′09	
evening rise	10546 Jun 19 11:53	14°502'51		minimum elong	10547 May 19 13:08	3° ∏ 55'40	2°12'18
asc. node	10546 Jun 24 00:59	22°5510'20		evening rise	10547 Jun 01 17:43	25° Ⅱ 57'56	
	10546 Jun 28 15:08	0°N	10005127		10547 Jun 04 02:24	0°95	
evening max el	10546 Jul 05 23:12	9° Ω 54'21 13° Ω 19'41	18°05'37	asc. node	10547 Jun 10 22:01	11°525'44	10000100
retrograde	10546 Jul 12 16:00 10546 Jul 15 03:25	$13^{\circ} 0.19^{\circ} 41$ $12^{\circ} 0.51^{\circ} 47$		evening max el	10547 Jun 19 12:58 10547 Jun 25 22:00	23°©12'54 26°©33'13	18°08'00
evening set inferior conj	10546 Jul 21 21:52	7° Ω 55'35	1°42'00	retrograde evening set	10547 Jun 28 17:20	25°952'36	
minimum elong	10546 Jul 22 00:30	7° Ω 49'19	1°40'43	inferior conj	10547 Jul 04 21:34	20°937'33	2°33'27
min. Earth dist.	10546 Jul 25 03:14	$4^{\circ}\Omega53'28$	0.60635 AU	minimum elong	10547 Jul 04 21:34 10547 Jul 05 00:11	20°930'30	2°32'21
desc. node	10546 Jul 27 21:57	2° Ω 37'06	0.00033 AU	min. Earth dist.	10547 Jul 03 00:11 10547 Jul 07 15:57	17° © 39'51	0.62868 AU
morning rise	10546 Jul 28 18:49	2° Ω 01'34		morning rise	10547 Jul 11 05:16	14°526'52	0.02000 /10
morning rise	10546 Aug 02 20:29	30°Rூ		desc. node	10547 Jul 14 19:08	12°528'49	
direct	10546 Aug 04 08:49	29°\$53'21		direct	10547 Jul 17 22:29	11°956'37	
	10546 Aug 05 21:43	0°N		morning max el	10547 Jul 31 23:06		27°52'13
morning max el	10546 Aug 18 15:45	7° Ω 50′22	27°52'42		10547 Aug 09 12:41	$0^{\circ}\Omega$	
C	10546 Sep 04 12:57	0° m)			10547 Aug 28 13:03	0° m)	
morning set	10546 Sep 20 09:18	29° m 05'31		morning set	10547 Sep 04 07:12	13° m)01'16	
asc. node	10546 Sep 20 01:16	28° m 23'54		asc. node	10547 Sep 06 22:03	18° m 24'03	
	10546 Sep 20 19:45	0∘ ⊽		max. Earth dist.	10547 Sep 09 12:45	23° m 55'41	1.32227 AU
max. Earth dist.	10546 Sep 26 08:40	11° ≏ 55'46	1.31592 AU				
				superior conj	10547 Sep 11 23:33	29° m 13'31	0°48'28
superior conj	10546 Sep 27 15:11	14° ≏ 44'18	1°09'10	minimum elong	10547 Sep 11 21:33	29° m 02'41	0°48'03
minimum elong	10546 Sep 27 12:57	14° ≙ 31'53	1°08'55		10547 Sep 12 08:04	0∘ ⊽	
evening rise	10546 Oct 04 08:33	29° ჲ 31'39		evening rise	10547 Sep 18 19:57	14° ≏ 09'44	
	10546 Oct 04 13:50	0° M			10547 Sep 26 16:21	0° M	
	10546 Oct 20 22:16	0° ∡ ¹		desc. node	10547 Oct 10 16:53	20°M52'14	
desc. node	10546 Oct 23 19:38	4° ∡ °04'17		evening max el	10547 Oct 12 20:28	23°ML05'07	23°48'35
evening max el	10546 Oct 31 09:00	12° ∡ 45′52	25°24'18	retrograde	10547 Oct 26 10:07	29° ™ 51'47	
retrograde	10546 Nov 14 06:08	19° ∡ 45′00		evening set	10547 Oct 31 02:04	29° ™ 04'20	
evening set	10546 Nov 20 04:26	18° ∡ 24'35		min. Earth dist.	10547 Nov 06 06:49	26°M04′20	0.55749 AU
min. Earth dist.	10546 Nov 24 21:13	15° ∡ 45'42	0.57398 AU	inferior conj	10547 Nov 08 08:01	24°M50'38	
inferior conj	10546 Nov 27 18:52	13° ∡ 747'31		minimum elong	10547 Nov 08 09:23	24°M48'36	5°44'30
minimum elong	10546 Nov 28 01:53	13° ∡ ³35'34	5°11'11	morning rise	10547 Nov 16 18:36	20°M55'23	

direct	10547 Nov 19 12:47	20°M36'16		morning rise	10548 Oct 26 14:40	1°M24'24	
morning max el	10547 Nov 29 22:21	25°M31'49	20°06'50	direct	10548 Oct 30 00:41	0° ™ 58'30	
asc. node	10547 Dec 03 22:26	0° ≯ 101'42		morning max el	10548 Nov 10 23:34	6° M 37′21	21°35'56
	10547 Dec 03 21:54	0° ∡ ¹		asc. node	10548 Nov 19 19:22	17°M42'16	
morning set	10547 Dec 18 02:37	24° ₰ 751'00			10548 Nov 26 18:30	0° ∡ ¹	
	10547 Dec 20 14:56	ರ°0		morning set	10548 Dec 01 12:08	9° ∡ ³36′24	
	10547 D 25 19.42	100=20125	1922121		10549 D 00 16.55	249.747121	1924127
superior conj	10547 Dec 25 18:43	10°る30'25		superior conj	10548 Dec 08 16:55	24° x 47'31	1°34'27
minimum elong	10547 Dec 25 21:19		1°22'36	minimum elong	10548 Dec 08 18:28	24° ₹ 55'35	1°34'52
max. Earth dist.	10547 Dec 31 11:59	21°る40'09	1.36834 AU	n d ti	10548 Dec 11 05:24	0°る	1 24004 411
evening rise	10548 Jan 04 06:31	28° る 39'01		max. Earth dist.	10548 Dec 12 23:32	3°る33'11	1.34894 AU
	10548 Jan 05 00:31	0° ≈		evening rise	10548 Dec 17 04:22	11°る45'52	
desc. node	10548 Jan 06 15:29	2°≈52'55		desc. node	10548 Dec 23 12:26	23° る 18'46	
	10548 Jan 23 18:03	0° ₩			10548 Dec 27 11:03	0° ≈	
evening max el	10548 Feb 08 20:16	19°) 47'41	25°43'41		10549 Jan 17 23:56	0° ∀	
retrograde	10548 Feb 21 06:12	26° ¥ 55'02		evening max el	10549 Jan 21 09:37	3°) (31′24	26°42'44
evening set	10548 Feb 27 06:10	24°) 27′17		retrograde	10549 Feb 03 12:09	10°) 51′53	
asc. node	10548 Feb 29 21:02	21° ¥ 50′17		evening set	10549 Feb 09 23:15	8° ₩ 18'21	
min. Earth dist.	10548 Mar 02 13:25	19°) 48′39	0.67362 AU	min. Earth dist.	10549 Feb 14 00:33	4°) 14′00	0.66148 AU
inferior conj	10548 Mar 03 23:58	17° ¥ 59′07	0°59'43	inferior conj	10549 Feb 15 22:59	1° ¥ 57′05	0°03'53
minimum elong	10548 Mar 03 22:33	18°) €03'34	0°59'21	minimum elong	10549 Feb 15 22:52	1° ∺ 57′26	0°04'08
morning rise	10548 Mar 09 15:28	12° ∺ 08'40		transit middle	10549 Feb 15 22:52	1° ∺ 57′26	0°04'08
direct	10548 Mar 12 23:39	11° ∺ 04'45		transit begin	10549 Feb 15 20:02	2° ₩ 05'49	
morning max el	10548 Mar 19 19:17	14°) √ 47′27	18°58'27	transit end	10549 Feb 16 01:42	1°) 49′04	
	10548 Mar 31 08:33	$0^{\circ}\mathbf{\Upsilon}$		asc. node	10549 Feb 15 18:16	2° 升 11′04	
greatest brilliancy	10548 Apr 02 10:32	3° Y ′08′27	-0.8m		10549 Feb 17 15:39	30°R ≈	
desc. node	10548 Apr 03 16:10	5° Ƴ 01'24		morning rise	10549 Feb 21 23:35	26° ≈ 17'39	
morning set	10548 Apr 11 14:25	17° Ƴ 15'44		direct	10549 Feb 24 21:25	25° ≈ 30'45	
	10548 Apr 19 18:59	9° 8		morning max el	10549 Mar 03 08:24	28° ≈ 56'52	18°17'33
max. Earth dist.	10548 Apr 25 20:42	9° 8 29'28	1.45366 AU		10549 Mar 04 08:50	0° ∀	
				desc. node	10549 Mar 21 12:54	25° ℋ 16'45	
superior conj	10548 Apr 28 02:00	12° 8 58'55	-2°08'39	morning set	10549 Mar 22 20:20	27° ₩ 22'37	
minimum elong	10548 Apr 27 21:01	12° 8 39'19	2°08'47		10549 Mar 24 11:40	$0^{\circ}\mathbf{\Upsilon}$	
	10548 May 08 18:22	Π $^{\circ}0$					
evening rise	10548 May 13 00:41	6° Ⅱ 54'25		superior conj	10549 Apr 07 08:03	21° Y 54'06	
asc. node	10548 May 27 19:06	0°9514'21		minimum elong	10549 Apr 06 22:36	21° Υ 17'06	1°44'33
	10548 May 27 15:03	0°€		max. Earth dist.	10549 Apr 08 15:59	23° Y 59'00	1.45652 AU
evening max el	10548 Jun 02 01:55	6°945'09	18°28'39		10549 Apr 12 12:26	9° 8	
retrograde	10548 Jun 08 12:52	10°914'28		evening rise	10549 Apr 23 08:02	16° 8 53'52	
evening set	10548 Jun 11 16:03	9° © 19'31			10549 May 01 17:31	Π $^{\circ}0$	
inferior conj	10548 Jun 17 10:03	3° 5 47'32	3°03'39	greatest brilliancy	10549 May 04 04:42	3° Ⅱ 47'43	-0.8m
minimum elong	10548 Jun 17 11:45	3°542'29	3°02'53	asc. node	10549 May 14 16:14	18° Ⅱ 26'36	
min. Earth dist.	10548 Jun 19 14:04	1° © 12'59	0.64857 AU	evening max el	10549 May 16 11:29	20° Ⅲ 24′00	19°06'48
	10548 Jun 20 15:58	30° Ŗ Ⅱ		retrograde	10549 May 23 08:55	24° Ⅱ 15′00	
morning rise	10548 Jun 23 06:27	27° Ⅲ 28'38		evening set	10549 May 26 20:16	23° Ⅱ 04'50	
direct	10548 Jun 29 20:25	24° Ⅱ 46'31		inferior conj	10549 Jun 01 07:38	17° Ⅲ 17'37	3°16'45
desc. node	10548 Jun 30 16:14	24° Ⅱ 48'50		minimum elong	10549 Jun 01 08:09	17° Ⅲ 15′58	3°16'14
	10548 Jul 10 12:00	0ං ව		min. Earth dist.	10549 Jun 02 20:38	15° Ⅱ 18'49	0.66474 AU
morning max el	10548 Jul 13 09:31	2° 5 43'45	27°16'43	morning rise	10549 Jun 06 19:29	10° Ⅱ 56'34	
	10548 Aug 02 20:00	$0 {\circ} \Omega$		direct	10549 Jun 13 01:29	8° Ⅱ 13'22	
morning set	10548 Aug 17 20:04	26° Ω 29'04		desc. node	10549 Jun 17 13:16	9° Ⅱ 22'39	
	10548 Aug 19 14:56	0° m		morning max el	10549 Jun 25 20:17	15° Ⅱ 51'24	26°13'35
max. Earth dist.	10548 Aug 22 08:45	5° m 32'44	1.33367 AU		10549 Jul 07 12:03	0 \circ \odot	
asc. node	10548 Aug 23 18:52	8° m 29'08			10549 Jul 26 16:31	0 ° Ω	
				morning set	10549 Jul 31 20:26	9° Ω 19'35	
superior conj	10548 Aug 26 03:11	13° m 25'14		max. Earth dist.	10549 Aug 04 18:06	16° Ω 45'20	1.34993 AU
minimum elong	10548 Aug 26 02:04	13° m) 19'15	0°22'35				
evening rise	10548 Sep 02 06:58	28° M y 43'47		superior conj	10549 Aug 09 23:38	27° Ω 12'29	-0°06'34
	10548 Sep 02 21:24	0∘ ত		minimum elong	10549 Aug 10 00:02	27° Ω 14'31	0°06'49
	10548 Sep 20 09:37	0° M ₊		behind sun begin	10549 Aug 09 18:35	26° Ω 46'37	
evening max el	10548 Sep 23 08:36	3°M12'34	22°08'24	behind sun end	10549 Aug 10 05:29	27° Ω 42'27	
desc. node	10548 Sep 26 14:08	5°M59'52		asc. node	10549 Aug 10 15:41	28° Ω 34'48	
retrograde	10548 Oct 06 02:42	9°M33'33			10549 Aug 11 08:14	0° m	
evening set	10548 Oct 09 07:12	9° M ₊10'57		evening rise	10549 Aug 17 15:32	13° m 07'40	
min. Earth dist.	10548 Oct 17 13:56	5°M32'27	0.54771 AU		10549 Aug 26 08:11	0∘ ত	
inferior conj	10548 Oct 18 04:55	5°M11'25	-5°26'00	evening max el	10549 Sep 05 06:41	13° ≏ 45'15	20°39'19
minimum elong	10548 Oct 17 22:10	5°M20'54	5°24'47	desc. node	10549 Sep 13 11:24	18° ≏ 57'12	

	10540 9 16 14-21	100 0 22125			10550 4 20 05-41	200 m 20150	
retrograde	10549 Sep 16 14:31	19° £ 22'25		evening set	10550 Aug 30 05:41	29° Mp 39'50	
evening set	10549 Sep 18 18:01	19° £ 11'10	401.0150	desc. node	10550 Aug 31 08:42	29° Mp 24'46	2021114
inferior conj	10549 Sep 27 21:11	15° £ 15'08		inferior conj	10550 Sep 07 23:17	25° m 34'12	
minimum elong	10549 Sep 27 11:20	15° £ 29'18	4°07'53	minimum elong	10550 Sep 07 16:59	25° m/44'18	
min. Earth dist.	10549 Sep 28 22:17	14° £ 39'01	0.54692 AU	min. Earth dist.	10550 Sep 10 09:38	24° Mp 01'01	0.55561 AU
morning rise	10549 Oct 06 04:24	11° ≏ 15'58		morning rise	10550 Sep 16 01:54	21°Mp 04'55	
direct	10549 Oct 10 08:49	10° ≏ 38'22		direct	10550 Sep 21 02:08	20° Mp 08'29	
morning max el	10549 Oct 23 14:17	17° ≏ 01'40	23°20'20	morning max el	10550 Oct 05 01:32	27° m 09'21	25°06'14
	10549 Nov 02 23:06	0° M			10550 Oct 07 20:07	0∘ ⊽	
asc. node	10549 Nov 06 16:15	6°M08'34		asc. node	10550 Oct 24 13:06	25° ≏ 09'04	
morning set	10549 Nov 15 23:37	24°M24'49			10550 Oct 27 00:59	0° M	
	10549 Nov 18 14:03	0° ∡		morning set	10550 Oct 31 11:18	9° ™ 10′38	
superior conj	10549 Nov 22 21:55	9° ∡ ¹22'32	1°39'35	superior conj	10550 Nov 07 07:09	24°M07'04	1°38'23
minimum elong	10549 Nov 22 22:16	9° ∡ °24'21	1°40'03	minimum elong	10550 Nov 07 06:22	24° M 02'47	1°38'46
max. Earth dist.	10549 Nov 25 18:44	15° ∡ ¹29'29	1.33333 AU	max. Earth dist.	10550 Nov 08 21:37	27° M 37'59	1.32232 AU
evening rise	10549 Nov 30 15:16	25° х 26′48			10550 Nov 09 23:44	0° ∡ 7	
	10549 Dec 02 23:10	0°ප		evening rise	10550 Nov 14 11:55	9° ∡ 32′22	
desc. node	10549 Dec 10 09:27	13° る 29'52			10550 Nov 25 07:28	8°0	
	10549 Dec 20 21:38	0° ≈		desc. node	10550 Nov 27 06:32	3° る 18'48	
evening max el	10550 Jan 03 22:35	17° ≈ 00'33	27°20'35		10550 Dec 17 08:33	0° ≈	
retrograde	10550 Jan 17 12:05	24°≈23'59		evening max el	10550 Dec 17 09:29	0°≈02'14	27°30'32
evening set	10550 Jan 24 07:50	21°≈51'07		retrograde	10550 Dec 31 04:52	7° ≈ 21'02	
min. Earth dist.	10550 Jan 28 04:15	18° ≈ 19'14	0.64579 AU	evening set	10551 Jan 07 05:07	4°≈56'52	
inferior conj	10550 Jan 30 14:15	15° ≈ 43'13		min. Earth dist.	10551 Jan 10 22:36	1° ≈ 53'29	0.62713 AU
minimum elong	10550 Jan 30 16:06	15° ≈ 38'13	0°59'29		10551 Jan 12 21:57	30°Rる	
asc. node	10550 Feb 02 15:27	12°≈38'26	0 0 / 2 /	inferior conj	10551 Jan 13 18:50	29° ろ 09'17	-2°12'33
morning rise	10550 Feb 06 02:08	10°≈17'10		minimum elong	10551 Jan 13 23:13	28° る 58'42	
direct	10550 Feb 08 15:21	9°≈43'34		morning rise	10551 Jan 20 19:38	23° る 59'31	2 10 20
morning max el	10550 Feb 15 01:15	13°≈04'13	17°53'35	asc. node	10551 Jan 20 12:36	24° පි 06'00	
morning max ci	10550 Feb 26 22:51	0°) €	17 33 33	direct	10551 Jan 23 02:29	24 3 00000 23° る 35'21	
morning set	10550 Mar 04 07:27	8° ¥ 55'59			10551 Jan 29 18:43	23 3 3321 27° る 00'17	17°47'08
morning set		8 X 33 39 15° X 45'11		morning max el		27 3 00 17 0° ≈	1/4/08
desc. node	10550 Mar 08 09:39	13 χ 4311		. ,	10551 Feb 01 10:07		
	10550 Mar 17 03:08	Osy		morning set	10551 Feb 14 18:54	21°≈39'08	
	10550 15 15 22 20	100000111	1007110		10551 Feb 19 13:31	0°){	
superior conj	10550 Mar 17 23:38	1°Υ22'11		desc. node	10551 Feb 23 06:24	6°) €21'46	
minimum elong	10550 Mar 17 16:18	0° Υ 52'49	1°06'19				
max. Earth dist.	10550 Mar 22 11:18	8° Y 29'30	1.45201 AU	superior conj	10551 Feb 26 13:25	11°) € 54'37	
evening rise	10550 Apr 02 22:44	26° Y 18'55		minimum elong	10551 Feb 26 10:57	11°) 44'18	
	10550 Apr 05 08:29	0°8		max. Earth dist.	10551 Mar 05 04:40		1.44062 AU
greatest brilliancy	10550 Apr 17 20:28	18° 8 46'06	-0.6m		10551 Mar 09 17:56	0° Y	
	10550 Apr 26 01:16	Π °0		evening rise	10551 Mar 13 11:06	5° Ƴ 46'59	
evening max el	10550 Apr 29 16:04	4° Ⅱ 06'10	20°00'50		10551 Mar 29 16:57	0°8	
asc. node	10550 May 01 13:24	5° Ⅱ 51'19		evening max el	10551 Apr 12 15:06	17° 8 49'43	21°08'10
retrograde	10550 May 07 07:16	8° Ⅱ 29'23		asc. node	10551 Apr 18 10:36	22° 8 14'18	
evening set	10550 May 11 03:36	7° 耳 03'31		retrograde	10551 Apr 21 05:48	22° 8 52'37	
inferior conj	10550 May 16 11:22	1° Ⅱ 02'43	3°16'02	evening set	10551 Apr 25 12:05	21° 8 11'00	
minimum elong	10550 May 16 10:46	1° Ⅱ 04'44	3°15'33	inferior conj	10551 Apr 30 18:48	14° 8 58'20	3°03'43
	10550 May 17 05:54	30° ₹ 8		minimum elong	10551 Apr 30 17:19	15° 8 03'28	3°03'09
min. Earth dist.	10550 May 17 09:54	29° 8 46'34	0.67659 AU	min. Earth dist.	10551 May 01 03:43	14° 8 27'21	0.68384 AU
morning rise	10550 May 21 17:37	24° 8 43'17		morning rise	10551 May 05 22:19	8° 8 42'54	
direct	10550 May 27 12:28	22° 8 08'50		direct	10551 May 11 04:16	6° 8 24'32	
desc. node	10550 Jun 04 10:16	25° 8 41'42		morning max el	10551 May 21 15:41	12° 8 38'44	23°22'56
morning max el	10550 Jun 08 06:01	29° 8 11'19	24°52'16	desc. node	10551 May 22 07:12	13° 8 18'32	
	10550 Jun 09 00:53	0°II			10551 Jun 04 14:03	0°II	
	10550 Jul 01 07:16	0°ಲ			10551 Jun 24 03:39	0 . ಅ	
morning set	10550 Jul 14 03:56	21° 5 21'18		morning set	10551 Jun 25 13:25	2°\$21'04	
max. Earth dist.	10550 Jul 17 18:03	27°549'38	1.37033 AU	max. Earth dist.	10551 Jun 29 14:48	9° © 17'34	1.39307 AU
max. Lattii Uist.	10550 Jul 18 22:17	27 3 4938 0°Ω	1.57055 AU	max. Lattii Uist.	10551 Jun 27 14.40) •• 1134	1.57507 AU
	10550 Jul 10 22.1/	· 06		superior conj	10551 Jul 07 06:05	23° © 02'09	-1°12'17
superior conj	10550 Jul 24 09:52	10° Ω 27'51	-0°30'02	minimum elong	10551 Jul 07 00:05	23°\$02'09 23°\$24'45	
		$10^{\circ} 0.2731$ $10^{\circ} \Omega 40'09$		mmmum eiong		23° © 24'45 0° Ω	1 1201
minimum elong asc. node	10550 Jul 24 12:23 10550 Jul 28 12:33	10° ∂ €40'09 18° Ω 37'26	0 3037	asa nodo	10551 Jul 10 22:50 10551 Jul 15 09:28	8° Ω 33'12	
				asc. node			
evening rise	10550 Aug 01 19:22	27° Ω 15'08		evening rise	10551 Jul 16 15:35	10° Ω 58'50	
	10550 Aug 03 04:19	0° m/	10020127		10551 Jul 27 05:21	0° Mp	1004044
evening max el	10550 Aug 18 18:38	25° Mp 03'05	19°29'27	evening max el	10551 Aug 01 18:45	7° Mp 06'15	18°40'48
retrograde	10550 Aug 28 09:29	29° m 49'34		retrograde	10551 Aug 09 21:50	11° m) 10'01	

	10551 1 11 01 00	100% 5015			10550 X 1 00 05 15	222 02242	
evening set	10551 Aug 11 21:32	10° m 56'17		retrograde	10552 Jul 22 05:15	23° Ω 20'49	
desc. node	10551 Aug 18 05:59	7° m 43'13		evening set	10552 Jul 24 12:04	22° Ω 59'06	
inferior conj	10551 Aug 19 20:59	6°My31'55	-0°30'09	inferior conj	10552 Jul 31 16:20	18° Ω 14'00	1°01'10
minimum elong	10551 Aug 19 19:45	6° Mp 34′12	0°29'56	minimum elong	10552 Jul 31 18:14	18° Ω 09'50	1°00'06
min. Earth dist.	10551 Aug 23 01:40	4° ₯ 09'44	0.57204 AU	min. Earth dist.	10552 Aug 04 00:35	15° Ω 19'59	0.59323 AU
morning rise	10551 Aug 27 14:34	1° ™ 25'20		desc. node	10552 Aug 04 03:14	15° Ω 14'31	
direct	10551 Sep 02 09:15	0° Mp 03'05		morning rise	10552 Aug 07 21:11	12° Ω 34'11	
morning max el	10551 Sep 16 16:30	7° m 32′01	26°36'15	direct	10552 Aug 14 05:47	10° Ω 42'26	
	10551 Oct 03 11:11	0∘ ರ		morning max el	10552 Aug 28 14:32	18° Ω 31'40	27°35'43
asc. node	10551 Oct 11 09:57	14° £ 34'57		C	10552 Sep 07 06:12	0° m	
morning set	10551 Oct 15 21:33	23° £ 49'39			10552 Sep 25 03:26	0∘ ⊽	
morning set	10551 Oct 18 17:58	0°M		asc. node	10552 Sep 27 06:47	ა — 4° ჲ 18'20	
	10331 Oct 18 17.38	O IIG				8° £ 16′03	
	10551 0 + 22 10 22	00 m 55102	1021121	morning set	10552 Sep 29 04:36		1 21 457 411
superior conj	10551 Oct 22 18:33	8°M55'03	1°31'21	max. Earth dist.	10552 Oct 05 15:13	22° ≏ 16′26	1.31457 AU
minimum elong	10551 Oct 22 16:55	8°M45'54	1°31'30			_	
max. Earth dist.	10551 Oct 23 05:41	9°M56'55	1.31608 AU	superior conj	10552 Oct 06 06:13	23° £ 39'50	1°18'48
evening rise	10551 Oct 29 15:33	23°M55'27		minimum elong	10552 Oct 06 04:04	23° ≏ 27'52	1°18'41
	10551 Nov 01 14:05	0° ∡ ¹			10552 Oct 09 02:37	0° M	
desc. node	10551 Nov 14 03:42	22° х 36′41		evening rise	10552 Oct 12 23:44	8°M28'25	
	10551 Nov 19 03:19	0°る			10552 Oct 24 00:15	0° ∡ ¹	
evening max el	10551 Nov 29 15:39	12° る 23'13	27°07'25	desc. node	10552 Oct 31 00:54	11° ∡ 10'39	
retrograde	10551 Dec 13 13:14	19° る 34'18		evening max el	10552 Nov 10 14:16	23° х 53′06	26°10'23
evening set	10551 Dec 20 11:35	17°る27'55		<i>y</i>	10552 Nov 19 14:29	0°ප	
min. Earth dist.	10551 Dec 24 06:12	14°る45'23	0.60650 AU	retrograde	10552 Nov 24 12:12	0° ප 57'05	
inferior conj	10551 Dec 27 09:23	12° る 06'25		retrograde	10552 Nov 29 08:41	30°R.★	
•				. ,			
minimum elong	10551 Dec 27 16:17	11°る51'46	3°25'11	evening set	10552 Nov 30 22:54	29° 🖈 17'32	0.50520 444
morning rise	10552 Jan 03 23:36	7° る 16'22		min. Earth dist.	10552 Dec 05 03:13	26° ∡ ¹42'39	0.58539 AU
direct	10552 Jan 06 03:05	6° ප 58'01		inferior conj	10552 Dec 08 06:21	24° ≯ 24'40	
asc. node	10552 Jan 07 09:43	7° る 04'45		minimum elong	10552 Dec 08 14:20	24° ₹ 09'57	4°36'47
morning max el	10552 Jan 13 09:30	10° පි 36'11	17°59'13	morning rise	10552 Dec 16 08:20	19° ₰ 757'06	
	10552 Jan 26 04:09	0° ≈		direct	10552 Dec 18 12:37	19° ∡ ′41′16	
morning set	10552 Jan 29 00:10	5°≈11'58		asc. node	10552 Dec 24 06:48	21° ₹ 39'17	
				morning max el	10552 Dec 26 17:58	23° х 42′10	18°31'25
superior conj	10552 Feb 08 04:08	23° ≈ 37'30	0°14'59		10552 Dec 31 20:24	8°0	
minimum elong	10552 Feb 08 05:23	23° ≈ 43'00	0°15'08	morning set	10553 Jan 11 17:52	19° る 18'26	
behind sun begin	10552 Feb 08 02:48	23° ≈ 31'41		3	10553 Jan 17 07:19	0° ≈	
behind sun end	10552 Feb 08 07:57	23°≈54'19			10000 0001 17 07.19		
desc. node	10552 Feb 10 03:12	27°≈02'50		superior conj	10553 Jan 20 16:22	6° ≈ 21'00	0°47'33
desc. Hode		27 ≈ 02 30 0° H		1 3			
F 4 F	10552 Feb 11 20:25		1 10051 177	minimum elong	10553 Jan 20 19:17	6°≈34'29	0°47'34
max. Earth dist.	10552 Feb 15 18:04	6°) (34′00	1.42354 AU	desc. node	10553 Jan 27 00:03	17° ≈ 44'53	
evening rise	10552 Feb 21 11:33	15°) 52′02		max. Earth dist.	10553 Jan 28 02:38	19° ≈ 40'37	1.40268 AU
	10552 Mar 01 15:21	0° Υ		evening rise	10553 Feb 01 08:06	26°≈51'17	
	10552 Mar 23 20:56	9° 8			10553 Feb 03 05:51	0° ∀	
evening max el	10552 Mar 25 09:07	1° 8 34'36	22°24'42		10553 Feb 23 06:40	0 ° Υ	
retrograde	10552 Apr 04 02:51	7° 8 20'07		evening max el	10553 Mar 07 23:48	15° Ƴ 21'57	23°45'08
asc. node	10552 Apr 04 07:50	7° 8 19'55		retrograde	10553 Mar 18 21:07	21° Y 47'06	
evening set	10552 Apr 08 20:04	5° 8 23'15		asc. node	10553 Mar 22 05:04	20° Ƴ 54'38	
	10552 Apr 13 10:53	30° ŖƳ		evening set	10553 Mar 24 02:01	19° Y 36'16	
inferior conj	10552 Apr 14 03:49	29° Ƴ 01'10	2°41'09	min. Earth dist.	10553 Mar 28 20:36	14° Υ 02'34	0.68474 AU
minimum elong	10552 Apr 14 01:47	29° Υ 08'15	2°40'28	inferior conj	10553 Mar 29 12:33	13° Y ′08′06	2°09'04
min. Earth dist.	10552 Apr 14 00:00	29° Υ 14'28	0.68652 AU	minimum elong	10553 Mar 29 10:22	13° Υ 15'34	2°08'21
	-	29° 1428 22° Υ 51'01	0.08032 AU	•		7° Υ 04'23	2 08 21
morning rise	10552 Apr 19 07:22			morning rise	10553 Apr 03 18:44		
direct	10552 Apr 23 23:42	20° Y 53′09		direct	10553 Apr 07 21:47	5° Y 28′24	
morning max el	10552 May 03 04:17	26° Y 15′01	21°54'53	morning max el	10553 Apr 15 23:04	10° Y 03'14	20°35'30
	10552 May 06 14:44	0°8		desc. node	10553 Apr 25 00:54	21° Y 06'37	
desc. node	10552 May 08 04:05	1° 8 51'58			10553 May 01 07:20	9° 8	
	10552 May 28 02:22	Π $\circ 0$		morning set	10553 May 15 04:13	20° 8 55'11	
morning set	10552 Jun 04 20:43	12° Ⅱ 09′01			10553 May 20 23:02	Π $^{\circ}0$	
max. Earth dist.	10552 Jun 10 15:08	21° Ⅲ 34′14	1.41548 AU	max. Earth dist.	10553 May 23 22:01	4° Ⅱ 44'05	1.43474 AU
	10552 Jun 15 14:29	0°99			•		
				superior conj	10553 May 30 10:42	15° Ⅱ 26'14	-2°05'12
superior conj	10552 Jun 18 07:45	4°5944'19	-1°42'46	minimum elong	10553 May 30 15:49	15° Ⅱ 47'37	
minimum elong	10552 Jun 18 14:09	5°912'28			10553 Jun 07 23:31	0°9	2 00 20
•			1 74 30	avaning rise		0 € 6°€34'59	
evening rise	10552 Jun 29 00:31	24°908'51		evening rise	10553 Jun 11 17:44		
asc. node	10552 Jul 01 06:26	28°917'17		asc. node	10553 Jun 18 03:27	17° © 45'10	
	10552 Jul 02 04:53	0°N	10016:		10553 Jun 26 03:01	0° Ω	1000 *** 5
evening max el	10552 Jul 15 03:06	19° Ω 45'31	18°12'44	evening max el	10553 Jun 28 15:53	2° Ω 52'20	18°04'16

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retrograde	10553 Jul 05 04:18	6° Ω 14'07		asc. node	10554 Jun 05 00:30	6° © 50'10	
evening set	10553 Jul 07 18:58	5° Ω 41'12		evening max el	10554 Jun 12 05:38	16° © 17'32	18°14'37
inferior conj	10553 Jul 14 06:53	0° Ω 36'43	2°06'40	retrograde	10554 Jun 18 14:28	19° © 40'04	
minimum elong	10553 Jul 14 09:40	0° Ω 29'42	2°05'25	evening set	10554 Jun 21 13:03	18° © 53'39	
	10553 Jul 14 21:26	30° ₹ 5		inferior conj	10554 Jun 27 12:30	13° © 31'28	2°48'34
min. Earth dist.	10553 Jul 17 08:13	27° © 33'39	0.61600 AU	minimum elong	10554 Jun 27 14:48	13° © 25'01	2°47'36
morning rise	10553 Jul 20 21:59	24° © 34'01		min. Earth dist.	10554 Jun 30 01:07	10° © 41'20	0.63755 AU
desc. node	10553 Jul 22 00:25	23° © 51'58		morning rise	10554 Jul 03 15:05	7° © 16'18	
direct	10553 Jul 27 14:02	22° © 15'20		desc. node	10554 Jul 08 21:32	4°5546'04	
	10553 Aug 10 12:34	0 $^{\circ}\Omega$		direct	10554 Jul 10 07:43	4° © 39'17	
morning max el	10553 Aug 10 19:16	0° Ω 16'34	27°57'08	morning max el	10554 Jul 24 04:11	12° © 41'41	27°40'55
	10553 Sep 01 08:35	0° т р			10554 Aug 07 00:09	$0 {\circ} \Omega$	
morning set	10553 Sep 13 06:30	22° Mp 24 '43			10554 Aug 24 21:04	0° m p	
asc. node	10553 Sep 14 03:36	24° Mp 13'46		morning set	10554 Aug 28 00:56	6° Mp 09′38	
	10553 Sep 16 21:09	0∘ ত		asc. node	10554 Sep 01 00:26	14° Mp 16'43	
max. Earth dist.	10553 Sep 18 22:16	4° ≙ 25'38	1.31797 AU	max. Earth dist.	10554 Sep 01 23:02	16° Mp 15'13	1.32643 AU
superior conj	10553 Sep 20 16:19	8° ≏ 16'12	1°01'00	superior conj	10554 Sep 04 22:58	22° m 38'56	0°38'14
minimum elong	10553 Sep 20 14:07	8° £ 04'04	1°00'39	minimum elong	10554 Sep 04 21:16	22° Mp 29'46	0°37'47
evening rise	10553 Sep 27 10:29	23° ♀ 05'50			10554 Sep 08 08:17	0∘ ত	
	10553 Sep 30 17:11	0° M .		evening rise	10554 Sep 11 21:57	7° - 42'46	
desc. node	10553 Oct 17 22:07	28°M43'36			10554 Sep 23 11:31	0°M	
	10553 Oct 18 23:11	0° ∡ ¹		evening max el	10554 Oct 04 15:25	14° M 43'17	23°05'35
evening max el	10553 Oct 23 04:43	4° ∡ ³32'57	24°45'12	desc. node	10554 Oct 04 19:21	14°M52'48	
retrograde	10553 Nov 05 24:00	11° ₹ 28'41		retrograde	10554 Oct 17 22:59	21°M21'16	
evening set	10553 Nov 11 10:38	10° ₹ 22'26		evening set	10554 Oct 21 23:19	20°M46'12	
min. Earth dist.	10553 Nov 16 16:11	7° ∡ ³36'48	0.56626 AU	min. Earth dist.	10554 Oct 29 00:41	17° M 31'33	0.55226 AU
inferior conj	10553 Nov 19 07:06	5° ₹ 155'53		inferior conj	10554 Oct 30 12:29	16°ML39'47	
minimum elong	10553 Nov 19 12:20	5° ∡ 147'28		minimum elong	10554 Oct 30 10:17		5°43'39
morning rise	10553 Nov 27 16:17	1° ₹ ′50′20		morning rise	10554 Nov 07 23:01	12°M49'40	
direct	10553 Nov 30 03:11	1° х 33′40		direct	10554 Nov 10 23:20	12°M28'11	
morning max el	10553 Dec 09 16:15	6° ∡ 107'07	19°25'30	morning max el	10554 Nov 22 01:19	17°M42'23	20°42'17
asc. node	10553 Dec 11 03:50	7° ∡ ³38'39		asc. node	10554 Nov 28 00:48	24°M47'05	
	10553 Dec 24 22:24	0°ਰ			10554 Dec 01 10:15	0° ∡ ¹	
morning set	10553 Dec 26 19:57	3° ප් 46'30		morning set	10554 Dec 11 03:28	18° × 127'53	
morning sec	10000 200 20 17.07	3 3.030		morning sec	10554 Dec 16 16:42	0°ਰ	
superior conj	10554 Jan 03 21:11	19° ට 50'32	1°11'57			• •	
minimum elong	10554 Jan 04 00:10		1°12'05	superior conj	10554 Dec 18 14:08	3° ට 53'35	1°28'22
	10554 Jan 09 05:12	0° ≈		minimum elong	10554 Dec 18 16:19	4°る04'47	
max. Earth dist.	10554 Jan 10 08:25		1.38057 AU	max. Earth dist.	10554 Dec 23 16:33		1.35968 AU
desc. node	10554 Jan 13 20:54	8°≈23'59	1.5000 / 110	evening rise	10554 Dec 27 14:45	21° ට 30'23	1.50,00110
evening rise				- · · · · · · · · · · · · · · · · · · ·			
0.00000	10554 Jan 14 01:59	8°≈46'18		desc node			
	10554 Jan 14 01:59 10554 Jan 27 01:52	8°≈46'18 0°¥		desc. node	10554 Dec 31 17:50	28° පි 56'23	
evening max el	10554 Jan 27 01:52	0° ∀	25°02'59	desc. node	10554 Dec 31 17:50 10555 Jan 01 08:24	28°ප්56'23 0°≈	
evening max el	10554 Jan 27 01:52 10554 Feb 18 13:07	0° ∺ 29° ∺ 11'20	25°02'59		10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44	28° ප් 56'23 0° ≈ 0° ਮ්	26°10'59
-	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17	0° ∺ 29° ∺ 11'20 0° Υ	25°02'59	evening max el	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37	28°る56'23 0°≈ 0°升 13°升00'14	26°10'59
retrograde	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21	0° ∺ 29° ∺ 11'20	25°02'59	evening max el retrograde	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34	28° ප් 56'23 0° ≈ 0° ਮ්	26°10'59
retrograde evening set	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19	0°¥ 29°¥11'20 0°° 6°°07'09 3°°44'44	25°02'59	evening max el retrograde evening set	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18	28°⋜56'23 0°≈ 0°¥ 13°¥00'14 20°¥14'34 17°¥44'01	26°10'59
retrograde	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19	0°¥ 29°¥11'20 0°Y 6°Y07'09 3°Y44'44 2°Y54'28	25°02'59	evening max el retrograde evening set asc. node	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31	28°⋜56'23 0°≈ 0°)€ 13°)€00'14 20°)€14'34 17°)€44'01 13°)€39'19	
retrograde evening set asc. node	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10	0°\t 29°\t11'20 0°\tag{6°\tag{707'09}} 3°\tag{44'44} 2°\tag{54'28} 30°\tag{\tag{8}\tag{4}}		evening max el retrograde evening set asc. node min. Earth dist.	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59	28°⋜56'23 0°≈ 0°¥ 13°¥00'14 20°¥14'34 17°¥44'01 13°¥39'19 13°¥19'47	0.66892 AU
retrograde evening set asc. node min. Earth dist.	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21	0°¥ 29°¥11'20 0°°Y 6°°Y07'09 3°°Y44'44 2°°Y54'28 30°R¥ 28°¥45'53	0.67880 AU	evening max el retrograde evening set asc. node min. Earth dist. inferior conj	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31	28°⋜56'23 0°≈ 0°ℋ 13°ℋ00'14 20°ℋ14'34 17°ℋ44'01 13°ℋ39'19 13°ℋ19'47 11°ℋ17'52	0.66892 AU 0°37'11
retrograde evening set asc. node min. Earth dist. inferior conj	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06	0°¥ 29°¥11'20 0°Y 6°Y07'09 3°Y44'44 2°Y54'28 30°R¥ 28°¥45'53 27°¥14'51	0.67880 AU 1°27'43	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34	28°⋜56'23 0°≈ 0° ₩ 13° ₩ 00'14 20° ₩ 14'34 17° ₩ 44'01 13° ₩ 39'19 13° ₩ 19'47 11° ₩ 17'52 11° ₩ 20'47	0.66892 AU
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 6° \(\) 707'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) 28° \(\) 45'53 27° \(\) 14'51 27° \(\) 20'57	0.67880 AU	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34	28°⋜56'23 0°≈ 0° ₩ 13° ₩ 00'14 20° ₩ 14'34 17° ₩ 44'01 13° ₩ 39'19 13° ₩ 19'47 11° ₩ 17'52 11° ₩ 20'47 5° ₩ 31'31	0.66892 AU 0°37'11
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 6° \(\) 707'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) 28° \(\) 45'53 27° \(\) 14'51 27° \(\) 21° \(\) 18'55	0.67880 AU 1°27'43	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10	28° ₹56'23 0° ₹ 0° ₩ 13° ₩ 00'14 20° ₩ 14'34 17° ₩ 44'01 13° ₩ 39'19 13° ₩ 19'47 11° ₩ 17'52 11° ₩ 20'47 5° ₩ 31'31 4° ₩ 35'12	0.66892 AU 0°37'11 0°37'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 6° \(\) 70'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) 28° \(\) 45'53 27° \(\) 14'51 27° \(\) 20'57 21° \(\) 18'55 20° \(\) 30'58	0.67880 AU 1°27'43 1°27'09	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 13 11:11	28° ₹56'23 0° ₹ 0° ₩ 13° ₩ 00'14 20° ₩ 14'34 17° ₩ 44'01 13° ₩ 39'19 13° ₩ 19'47 11° ₩ 17'52 11° ₩ 20'47 5° ₩ 31'31 4° ₩ 35'12 8° ₩ 09'33	0.66892 AU 0°37'11
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 0° \(\) 3° \(\) 44'44 2° \(\) 54'28 30° \(\) \(\) 28° \(\) 44'513 27° \(\) 14'51 27° \(\) 20'57 21° \(\) 18'55 20° \(\) 03'58 24° \(\) (02'23	0.67880 AU 1°27'43	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 13 11:11 10555 Mar 29 03:51	28° ₹56'23 0° ₩ 13° ₩ 00'14 20° ₩ 14'34 17° ₩ 44'01 13° ₩ 39'19 13° ₩ 19'47 11° ₩ 17'52 11° ₩ 20'47 5° ₩ 31'31 4° ₩ 35'12 8° ₩ 09'33 0° ♥	0.66892 AU 0°37'11 0°37'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 6° \(\) 70'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) 28° \(\) 44'5'53 27° \(\) 14'51 27° \(\) 20° \(\) 20° \(\) 0° \(\) 0° \(\)	0.67880 AU 1°27'43 1°27'09	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 18:24	28° ₹56'23 0° ★ 13° ₩00'14 20° ₩14'34 17° ₩44'01 13° ₩39'19 13° ₩19'47 11° ₩17'52 11° ₩20'47 5° ₩31'31 4° ₩35'12 8° ₩09'33 0° Ψ 0° Ψ56'41	0.66892 AU 0°37'11 0°37'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 6° \(\) 70'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) 28° \(\) 44'5'53 27° \(\) 12'° \(\) 20' \(\) 20° \(\) 0° \(\) 0° \(\) 10° \(\) 50'44	0.67880 AU 1°27'43 1°27'09 19°29'20	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 13 11:11 10555 Mar 29 03:51 10555 Mar 29 18:24 10555 Apr 03 17:34	28° ₹56'23 0° ≈ 0° ¥ 13° ¥00'14 20° ¥14'34 17° ¥44'01 13° ¥39'19 13° ¥19'47 11° ¥17'52 11° ¥20'47 5° ¥31'31 4° ¥35'12 8° ¥09'33 0° ♀ 0° ♀ 56'41 8° ♀43'30	0.66892 AU 0°37'11 0°37'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 07'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) \(\) \(\) 45'53 27° \(\) 14'51 27° \(\) 20'57 21° \(\) 18'55 20° \(\) 03'58 24° \(\) 02'23 0° \(\) 10° \(\) 50'44 10° \(\) 738'10	0.67880 AU 1°27'43 1°27'09	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	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 13 11:11 10555 Mar 29 03:51 10555 Mar 29 18:24 10555 Apr 03 17:34 10555 Apr 17 07:40	28° ₹56'23 0° ≈ 0° ¥ 13° ¥00'14 20° ¥14'34 17° ¥44'01 13° ¥39'19 13° ¥19'47 11° ¥17'52 11° ¥20'47 5° ¥31'31 4° ¥35'12 8° ¥09'33 0° ¥ 0° ¥56'41 8° ¥43'30 0° ¥	0.66892 AU 0°37'11 0°37'01 18°38'53
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14 10554 Apr 24 03:18	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 07'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) \(\) \(\) 45'53 27° \(\) 14'51 27° \(\) 20'57 21° \(\) 18'55 20° \(\) 03'58 24° \(\) 02'23 0° \(\) 10° \(\) 50'44 10° \(\) 38'10 29° \(\) 24'07	0.67880 AU 1°27'43 1°27'09 19°29'20	evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 13 11:11 10555 Mar 29 03:51 10555 Mar 29 18:24 10555 Apr 03 17:34	28° ₹56'23 0° ≈ 0° ¥ 13° ¥00'14 20° ¥14'34 17° ¥44'01 13° ¥39'19 13° ¥19'47 11° ¥17'52 11° ¥20'47 5° ¥31'31 4° ¥35'12 8° ¥09'33 0° ♀ 0° ♀ 56'41 8° ♀43'30	0.66892 AU 0°37'11 0°37'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14 10554 Apr 24 03:18 10554 Apr 24 12:37	0°\congression 11'20 0°\congression 6°\congression 7'09 3°\congression 44'44 2°\congression 54'28 30°\congression 45'53 27°\congression 14'51 27°\congression 20'\congression 18'55 20°\congression 60'\congression 10'\congression 50'44 10°\congression 50'\congression 10'\congression 10'\	0.67880 AU 1°27'43 1°27'09 19°29'20 -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.	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 18:24 10555 Apr 03 17:34 10555 Apr 17 07:40 10555 Apr 19 04:57	28°♂56'23 0°≈ 0° ₩ 13° ₩00'14 20° ₩14'34 17° ₩44'01 13° ₩39'19 13° ₩19'47 11° ₩17'52 11° ₩20'47 5° ₩31'31 4° ₩35'12 8° ₩09'33 0° Ψ 0° Ψ56'41 8° ₩43'30 0° ₩ 2° ₩57'04	0.66892 AU 0°37'11 0°37'01 18°38'53
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14 10554 Apr 24 03:18	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 07'09 3° \(\) 44'44 2° \(\) 54'28 30° \(\) \(\) \(\) 45'53 27° \(\) 14'51 27° \(\) 20'57 21° \(\) 18'55 20° \(\) 03'58 24° \(\) 02'23 0° \(\) 10° \(\) 50'44 10° \(\) 38'10 29° \(\) 24'07	0.67880 AU 1°27'43 1°27'09 19°29'20	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	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 18:24 10555 Apr 03 17:34 10555 Apr 17 07:40 10555 Apr 19 04:57	28° ₹56'23 0° ★ 13° ¥00'14 20° ¥14'34 17° ¥44'01 13° ¥39'19 13° ¥19'47 11° ¥17'52 11° ¥20'47 5° ¥31'31 4° ¥35'12 8° ¥09'33 0° ¥ 0° ¥56'41 8° ¥43'30 0° ₩ 2° ₩57'04 4° ₩66'29	0.66892 AU 0°37'11 0°37'01 18°38'53 1.45586 AU -2°01'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 24 03:18 10554 Apr 24 12:37 10554 May 06 11:04	0°\congression 11'20 0°\congression 6°\congression 70'09 3°\congression 44'44 2°\congression 54'28 30°\congression 44'513 27°\congression 42'55 20°\congression 40'05'58 24°\congression 60'\congression 60'\c	0.67880 AU 1°27'43 1°27'09 19°29'20 -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	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 03:51 10555 Apr 19 04:57 10555 Apr 19 04:57	28° ₹56'23 0° ₩ 13° ₩00'14 20° ₩14'34 17° ₩44'01 13° ₩39'19 13° ₩19'47 11° ₩20'47 5° ₩31'31 4° ₩35'12 8° ₩09'33 0° Ψ 0° Ψ56'41 8° Ψ43'30 0° ₩ 2° ₩57'04 4° ₩06'29 3° ₩36'32	0.66892 AU 0°37'11 0°37'01 18°38'53 1.45586 AU -2°01'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 24 03:18 10554 Apr 24 12:37 10554 May 06 11:04	0°\text{29°\text{11'20}} 0°\text{0°\text{Y}} 6°\text{Y07'09} 3°\text{Y4'44} 2°\text{Y54'28} 30°\text{R}28°\text{\tex{\tex	0.67880 AU 1°27'43 1°27'09 19°29'20 -0.7m 1.44867 AU -2°13'00	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	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 03:51 10555 Apr 19 04:57 10555 Apr 19 04:57 10555 Apr 19 22:41 10555 Apr 19 15:02 10555 May 05 10:42	28° ₹56'23 0° ₩ 13° ₩00'14 20° ₩14'34 17° ₩44'01 13° ₩39'19 13° ₩19'47 11° ₩20'47 5° ₩31'31 4° ₩35'12 8° ₩09'33 0° Ψ 0° Ψ56'41 8° Ψ43'30 0° ₩ 2° ₹57'04 4° ₹06'29 3° ₹36'32 28° ₹35'38	0.66892 AU 0°37'11 0°37'01 18°38'53 1.45586 AU -2°01'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14 10554 Apr 24 03:18 10554 May 10 13:28 10554 May 10 13:28 10554 May 10 13:28	0°\text{\text{29°\text{\text{\text{11'20}}}} 0°\text{\ti}\text{\tex{\tex	0.67880 AU 1°27'43 1°27'09 19°29'20 -0.7m 1.44867 AU -2°13'00	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	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 03:51 10555 Apr 19 04:57 10555 Apr 19 04:57 10555 Apr 19 15:02 10555 May 05 10:42 10555 May 06 07:50	28° ₹56'23 0° ₩ 13° ₩00'14 20° ₩14'34 17° ₩44'01 13° ₩39'19 13° ₩19'47 11° ₩17'52 11° ₩20'47 5° ₩31'31 4° ₩35'12 8° ₩09'33 0° Ψ 0° Ψ56'41 8° Ψ43'30 0° ₩ 2° ₩57'04 4° ₩06'29 3° ₩36'32 28° ₩35'38 0° Ш	0.66892 AU 0°37'11 0°37'01 18°38'53 1.45586 AU -2°01'01 2°00'48
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14 10554 Apr 24 03:18 10554 Apr 24 12:37 10554 May 10 13:28 10554 May 10 13:28 10554 May 10 12:53 10554 May 10 12:53	0° \(\) 29° \(\) 11'20 0° \(\) 6° \(\) 0° \(\) 6° \(\) 0° \(\) 3° \(\) 44'44 2° \(\) 54'28 30° \(\) \(\) \(\) 45'53 27° \(\) 14'51 27° \(\) 20'57 21° \(\) 18'55 20° \(\) 03'58 24° \(\) 02'23 0° \(\) 10° \(\) 50'44 10° \(\) 738'10 29° \(\) 24'07 0° \(\) 18° \(\) 35'59 25° \(\) 06'51 25° \(\) 06'51 25° \(\) 04'28 0° \(\)	0.67880 AU 1°27'43 1°27'09 19°29'20 -0.7m 1.44867 AU -2°13'00	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 greatest brilliancy	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 03 16:34 10555 Mar 04 20:10 10555 Mar 29 03:51 10555 Mar 29 03:51 10555 Mar 29 18:24 10555 Apr 19 04:57 10555 Apr 19 04:57 10555 Apr 19 15:02 10555 May 05 10:42 10555 May 06 07:50 10555 May 13 04:23	28° ₹56'23 0° ★ 13° ¥00'14 20° ¥14'34 17° ¥44'01 13° ¥39'19 13° ¥19'47 11° ¥17'52 11° ¥20'47 5° ¥31'31 4° ¥35'12 8° ¥09'33 0° ¥ 0° ¥56'41 8° ¥43'30 0° ¥ 2° ₹57'04 4° ₹06'29 3° ₹36'32 28° ₹35'38 0° Ⅲ 10° Ⅲ 56'06	0.66892 AU 0°37'11 0°37'01 18°38'53 1.45586 AU -2°01'01
retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	10554 Jan 27 01:52 10554 Feb 18 13:07 10554 Feb 19 09:17 10554 Mar 02 11:21 10554 Mar 08 04:19 10554 Mar 09 02:19 10554 Mar 11 16:10 10554 Mar 12 15:21 10554 Mar 13 19:06 10554 Mar 13 17:14 10554 Mar 19 06:28 10554 Mar 22 21:07 10554 Mar 30 01:30 10554 Apr 04 04:35 10554 Apr 11 21:39 10554 Apr 11 18:14 10554 Apr 24 03:18 10554 May 10 13:28 10554 May 10 13:28 10554 May 10 13:28	0°\text{\text{29°\text{\text{\text{11'20}}}} 0°\text{\ti}\text{\tex{\tex	0.67880 AU 1°27'43 1°27'09 19°29'20 -0.7m 1.44867 AU -2°13'00	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	10554 Dec 31 17:50 10555 Jan 01 08:24 10555 Jan 20 22:44 10555 Feb 01 02:37 10555 Feb 13 20:34 10555 Feb 20 01:18 10555 Feb 23 23:31 10555 Feb 24 05:59 10555 Feb 25 21:31 10555 Feb 25 20:34 10555 Mar 03 16:34 10555 Mar 06 20:10 10555 Mar 29 03:51 10555 Mar 29 03:51 10555 Apr 19 04:57 10555 Apr 19 04:57 10555 Apr 19 15:02 10555 May 05 10:42 10555 May 06 07:50	28° ₹56'23 0° ₩ 13° ₩00'14 20° ₩14'34 17° ₩44'01 13° ₩39'19 13° ₩19'47 11° ₩17'52 11° ₩20'47 5° ₩31'31 4° ₩35'12 8° ₩09'33 0° Ψ 0° Ψ56'41 8° Ψ43'30 0° ₩ 2° ₩57'04 4° ₩06'29 3° ₩36'32 28° ₩35'38 0° Ш	0.66892 AU 0°37'11 0°37'01 18°38'53 1.45586 AU -2°01'01 2°00'48

	10555 May 26 20:06	0ංම		max. Earth dist.	10556 Apr 01 01:11	17° Ƴ 31'13	1.45556 AU
retrograde	10555 Jun 02 07:47	3° © 30'09			10556 Apr 09 01:21	0°8	
evening set	10555 Jun 05 14:26	2°528'44		evening rise	10556 Apr 14 09:41	8° 8 17'09	
-	10555 Jun 08 12:11	30° Ŗ Ⅱ		greatest brilliancy	10556 Apr 27 05:36	27° 8 55'37	-0.7m
inferior conj	10555 Jun 11 05:14	26° Ⅱ 50′18	3°11'04		10556 Apr 28 15:09	Π $^{\circ}0$	
minimum elong	10555 Jun 11 06:26	26° Ⅱ 46'35	3°10'25	asc. node	10556 May 08 18:42	13° Ⅱ 18′10	
min. Earth dist.	10555 Jun 13 02:54	24° Ⅱ 29'45	0.65603 AU	evening max el	10556 May 09 01:08	13° Ⅱ 34'33	19°27'58
morning rise	10555 Jun 16 21:40	20° Ⅲ 30′09		retrograde	10556 May 16 05:06	17° Ⅲ 37'44	
direct	10555 Jun 23 08:54	17° Ⅱ 46′06		evening set	10556 May 19 20:17	16° Ⅱ 20'43	
desc. node	10555 Jun 25 18:36	18° Ⅲ 05'55		inferior conj	10556 May 25 05:46	10° Ⅲ 27′25	3°17'59
morning max el	10555 Jul 06 14:43	25° Ⅱ 36'31	26°52'36	minimum elong	10556 May 25 05:47	10° Ⅱ 27′20	3°17'29
	10555 Jul 10 15:08	0ංම		min. Earth dist.	10556 May 26 12:25	8° Ⅱ 46'32	0.67037 AU
	10555 Jul 31 12:44	$0^{\circ}\Omega$		morning rise	10556 May 30 14:54	4° Ⅱ 06'57	
morning set	10555 Aug 11 08:54	19° Ω 22'24		direct	10556 Jun 05 16:28	1° Ⅱ 26'40	
max. Earth dist.	10555 Aug 15 14:28	27° Ω 40′19	1.34002 AU	desc. node	10556 Jun 11 15:37	3°Ⅱ28'24	
	10555 Aug 16 18:07	0° m		morning max el	10556 Jun 18 01:08	8° Ⅱ 50′38	25°40'39
asc. node	10555 Aug 18 21:14	4° Mp 22′27			10556 Jul 04 15:46	0 \circ \odot	
					10556 Jul 23 01:36	0 $^{\circ}\Omega$	
superior conj	10555 Aug 19 23:53	6°Mp41'10	0°10'56	morning set	10556 Jul 24 02:41	1° Ω 53'39	
minimum elong	10555 Aug 19 23:19	6° Mp38′13	0°10'34	max. Earth dist.	10556 Jul 27 19:47	8° Ω 48'17	1.35824 AU
behind sun begin	10555 Aug 19 18:58	6° Mp 15′33					
behind sun end	10555 Aug 20 03:39	7° m 00'55		superior conj	10556 Aug 02 16:25	20° Ω 16′07	-0°20'05
evening rise	10555 Aug 27 08:10	22° m 13'09		minimum elong	10556 Aug 02 17:39	20° Ω 22′18	0°20'12
	10555 Aug 31 02:57	0∘ रु		asc. node	10556 Aug 04 18:05	24° Ω 27′29	
evening max el	10555 Sep 16 07:02	24° £ 58′03	21°28'33		10556 Aug 07 10:57	O°Mp	
desc. node	10555 Sep 21 16:38	29° ≙ 08'43		evening rise	10556 Aug 10 15:04	6°My31'21	
	10555 Sep 23 11:03	0°M₊			10556 Aug 23 15:15	0∘ ⊽	
retrograde	10555 Sep 28 11:45	1°ML01'29		evening max el	10556 Aug 28 10:52	5° ≏ 48'30	20°06'57
evening set	10555 Oct 01 03:42	0°ML45'15		desc. node	10556 Sep 07 13:54	11° ≏ 03'34	
	10555 Oct 03 18:57	30° ₹ Ω		retrograde	10556 Sep 08 01:08	11° ≏ 04'09	
inferior conj	10555 Oct 10 05:39	26° ≏ 49'10	-5°00'18	evening set	10556 Sep 09 23:48	10° ≙ 54'18	
minimum elong	10555 Oct 09 20:37	27° ≏ 01'48	4°58'11	inferior conj	10556 Sep 19 00:26	6° ≙ 55'15	-3°26'31
min. Earth dist.	10555 Oct 10 07:52	26° ≏ 46'03	0.54622 AU	minimum elong	10556 Sep 18 15:31	7° ≏ 08'32	3°23'29
morning rise	10555 Oct 18 14:25	22° ♀ 59'43		min. Earth dist.	10556 Sep 20 16:56	5° ≏ 54'50	0.54956 AU
direct	10555 Oct 22 08:25	22° ₽ 29'17		morning rise	10556 Sep 27 06:11	2° ≏ 45'20	
morning max el	10555 Nov 03 21:12	28° ≙ 27'18	22°19'07	direct	10556 Oct 01 18:57	2° ♀ 00'51	
	10555 Nov 05 10:37	0° M		morning max el	10556 Oct 15 09:25	8° ≏ 40′20	24°06'16
asc. node	10555 Nov 14 21:44	12°M48'30			10556 Oct 30 22:30	0° M	
	10555 Nov 24 00:45	0° ∡ ¹		asc. node	10556 Oct 31 18:38	1°M30'27	
morning set	10555 Nov 25 14:03	3° ∡ 15′00		morning set	10556 Nov 09 01:51	18° M 02'45	
					10556 Nov 14 13:56	0° ∡ ¹	
superior conj	10555 Dec 02 15:33	18° ∡ 18'47	1°37'25				
minimum elong	10555 Dec 02 16:35	18° ∡ ¹24'16	1°37'53	superior conj	10556 Nov 15 22:37	2° ∡ ′58′15	1°39'48
max. Earth dist.	10555 Dec 06 07:27	25° ₹ 757'33	1.34182 AU	minimum elong	10556 Nov 15 22:27	2° ₹ 57'24	1°40'16
	10555 Dec 08 07:16	0°ಕ		max. Earth dist.	10556 Nov 18 06:18	7° ∡ °59′08	1.32811 AU
evening rise	10555 Dec 10 18:36	4° る 52'38		evening rise	10556 Nov 23 10:01	18° ≯ 44'23	
desc. node	10555 Dec 18 14:50	19° පි 16'36			10556 Nov 29 05:38	0°ප	
	10555 Dec 25 02:45	0° ≈		desc. node	10556 Dec 04 11:53	9° る 18'53	
evening max el	10556 Jan 14 16:11	26° ≈ 39'37	27°01'53		10556 Dec 18 08:36	0° ≈	
	10556 Jan 18 12:29	0° ∀		evening max el	10556 Dec 27 04:28	9° ≈ 57'51	27°28'30
retrograde	10556 Jan 27 23:50	4°) €01'32		retrograde	10557 Jan 09 20:36	17° ≈ 19'35	
evening set	10556 Feb 03 15:02	1° ∺ 27'41		evening set	10557 Jan 16 19:08	14° ≈ 49′09	
	10556 Feb 05 07:23	30° R ≈		min. Earth dist.	10557 Jan 20 13:57	11° ≈ 30′21	0.63819 AU
min. Earth dist.	10556 Feb 07 14:13	27° ≈ 37'21	0.65525 AU	inferior conj	10557 Jan 23 04:37	8° ≈ 49'23	
inferior conj	10556 Feb 09 17:33	25° ≈ 11'30		minimum elong	10557 Jan 23 07:30	8° ≈ 41'58	1°28'47
minimum elong	10556 Feb 09 18:12	25° ≈ 09'42	0°21'50	asc. node	10557 Jan 27 17:55	4°≈41'51	
asc. node	10556 Feb 10 20:43	23° ≈ 55'12		morning rise	10557 Jan 29 21:52	3° ≈ 30′05	
morning rise	10556 Feb 15 22:41	19° ≈ 37'14		direct	10557 Feb 01 08:10	3°≈00'53	
direct	10556 Feb 18 16:44	18° ≈ 56'18		morning max el	10557 Feb 07 19:41	6°≈21'51	17°48'44
morning max el	10556 Feb 25 02:10	22°≈18'34	18°05'15		10557 Feb 23 12:30	0° ∀	
	10556 Mar 02 05:31	0° ∀		morning set	10557 Feb 24 10:29	1°) 33′54	
morning set	10556 Mar 14 12:14	19° ¥ 28'42		desc. node	10557 Mar 02 11:56	11° ¥ 50′33	
desc. node	10556 Mar 15 15:10	21° 米 18′19					
	10556 Mar 21 00:05	0 ° Υ		superior conj	10557 Mar 09 06:43	23°) €02'47	
				minimum elong	10557 Mar 09 01:25	22°) 41′13	0°48'21
superior conj	10556 Mar 29 06:37	13° Ƴ 09'47			10557 Mar 13 14:24	0° Y	
minimum elong	10556 Mar 28 21:23	12° Ƴ 33'22	1°29'26	max. Earth dist.	10557 Mar 14 20:17	1° Y 58'50	1.44792 AU

evening rise	10557 Mar 24 21:29	17° Ƴ 38'35		max. Earth dist.	10558 Feb 25 11:47		1.43386 AU
	10557 Apr 02 01:02	0°8		evening rise	10558 Mar 04 13:30	27° ¥ 18'55	
evening max el	10557 Apr 22 03:17	27° 8 16'59	20°28'00		10558 Mar 06 07:00	0° Υ	
aga mada	10557 Apr 25 05:22 10557 Apr 25 15:53	0° П 0° П 18'31		avanina may al	10558 Mar 26 20:42	0° と 11° と 00'44	2192050
asc. node retrograde	10557 Apr 25 15:53 10557 Apr 30 03:53	1° П 56'41		evening max el asc. node	10558 Apr 04 23:57 10558 Apr 12 13:06	16° 8 10'41	21-39'50
evening set	10557 May 04 04:22	0° П 23'56		retrograde	10558 Apr 14 02:08	16° 8 22'21	
evening set	10557 May 04 16:03	30°R 8		evening set	10558 Apr 14 02:08	14° 8 34'16	
inferior conj	10557 May 09 11:22	24° 8 17'34	3°12'08	inferior conj	10558 Apr 23 19:45	8° 8 17'03	2°55'21
minimum elong	10557 May 09 10:21	24° 8 21'01	3°11'38	minimum elong	10558 Apr 23 17:59	8° 8 23'11	2°54'44
min. Earth dist.	10557 May 10 03:54	23° 8 20'49	0.68021 AU	min. Earth dist.	10558 Apr 23 23:10	8° 8 05'06	0.68550 AU
morning rise	10557 May 14 16:07	17° 8 59'35		morning rise	10558 Apr 28 22:56	2° 8 03'26	
direct	10557 May 20 05:28	15° 8 31'32			10558 May 02 19:17	30° ₹Ƴ	
desc. node	10557 May 29 12:36	20° 8 23'34		direct	10558 May 03 23:02	29° Ƴ 53'27	
morning max el	10557 May 31 10:49	22° 8 14'47	24°14'44		10558 May 05 03:34	9° 8	
	10557 Jun 07 05:19	Π °0		morning max el	10558 May 13 21:24	5° 8 46'01	22°44'47
	10557 Jun 27 22:57	0 \circ		desc. node	10558 May 16 09:31	8° 8 26'43	
morning set	10557 Jul 06 01:28	13° © 30'40			10558 Jun 01 13:39	0°II	
max. Earth dist.	10557 Jul 09 17:47	19° © 59'44	1.37988 AU	morning set	10558 Jun 17 00:11	24° ∏ 00'44	
	10557 Jul 15 04:12	0 $^{\circ}$ Ω		T 4 1	10558 Jun 20 14:20	0°95	
	10555 1 1 1 2 21 00	20 01 442	0052112	max. Earth dist.	10558 Jun 21 14:55	1° © 44'24	1.40281 AU
superior conj	10557 Jul 16 21:09	3°Ω14'42 3°Ω31'36			10550 I 20 10:02	15° © 27'50	1925140
minimum elong asc. node	10557 Jul 17 00:41 10557 Jul 22 14:58	$14^{\circ}\Omega 27'25$	0-53/03	superior conj minimum elong	10558 Jun 29 10:03 10558 Jun 29 15:45	15°953'46	
evening rise	10557 Jul 25 16:04	$20^{\circ}\Omega 29'39$		minimum clong	10558 Jul 07 05:25	13 3 33 40	1 23 34
evening rise	10557 Jul 30 13:46	0° m)		evening rise	10558 Jul 09 07:59	3° Ω 59'58	
evening max el	10557 Aug 11 04:16	17° m) 25'28	19°06'06	asc. node	10558 Jul 09 11:53	4°Ω18'28	
retrograde	10557 Aug 20 03:05	21° m) 52'47	17 00 00	evening max el	10558 Jul 25 08:24	29° Ω 45'10	18°26'24
evening set	10557 Aug 21 23:45	21° m/42'00		8	10558 Jul 25 14:30	0° m)	
desc. node	10557 Aug 25 11:11	20° m) 29'59		retrograde	10558 Aug 01 23:32	3° m/34'48	
inferior conj	10557 Aug 30 10:09	17° m) 28'54	-1°32'36	evening set	10558 Aug 04 02:00	3°m/18'12	
minimum elong	10557 Aug 30 06:07	17° m 35'47	1°31'11	-	10558 Aug 10 02:58	30°R Ω	
min. Earth dist.	10557 Sep 02 06:11	15° m 33'14	0.56178 AU	inferior conj	10558 Aug 11 17:09	28° Ω 45′23	0°11'38
morning rise	10557 Sep 07 09:27	12° m 43'28		minimum elong	10558 Aug 11 17:34	28° Ω 44'33	0°11'10
direct	10557 Sep 12 17:35	11° m 37'00		transit middle	10558 Aug 11 17:34	28° Ω 44'33	0°11'10
morning max el	10557 Sep 26 21:49	18° m 51'24	25°47'34	transit begin	10558 Aug 11 15:00	28° Ω 49'41	
	10557 Oct 06 06:51	0∘ ত		transit end	10558 Aug 11 20:08	28° Ω 39'25	
asc. node	10557 Oct 18 15:31	20° △ 42'33		desc. node	10558 Aug 12 08:27	28° Ω 14'41	0.500/5.444
	10557 Oct 23 05:46	0°M		min. Earth dist.	10558 Aug 15 01:10		0.58067 AU
morning set	10557 Oct 24 13:09	2° M 46'17		morning rise direct	10558 Aug 19 05:35 10558 Aug 25 07:02	23°Ω23'25 21°Ω48'19	
superior conj	10557 Oct 31 09:02	17° M .45'01	1°36'06	morning max el	10558 Sep 08 15:37	21° Ω 27'44	27°05'52
minimum elong	10557 Oct 31 07:51	17 ML38'28	1°36'23	morning max er	10558 Sep 08 15.57 10558 Sep 09 04:41	0° m)	27 03 32
max. Earth dist.	10557 Nov 01 11:41	20°M12'12	1.31901 AU		10558 Sep 30 04:02	0∘ ⊽	
	10557 Nov 06 00:05	0° ∡ ¹		asc. node	10558 Oct 05 12:21	10° £ 16'22	
evening rise	10557 Nov 07 09:55	2° х 57′56		morning set	10558 Oct 08 22:13	17° ≏ 20'14	
desc. node	10557 Nov 21 09:00	28° ₹ ′55'49		C	10558 Oct 14 17:24	0°M	
	10557 Nov 22 00:53	ರ∘ರ					
evening max el	10557 Dec 09 13:29	22° る 43'02	27°24'52	superior conj	10558 Oct 15 20:46	2°M32'19	1°26'42
retrograde	10557 Dec 23 10:14	29° る 59'33		minimum elong	10558 Oct 15 18:51	2°M21'41	1°26'44
evening set	10557 Dec 30 10:41	27° る 41'26		max. Earth dist.	10558 Oct 15 20:36	2°M31'23	1.31477 AU
min. Earth dist.	10558 Jan 03 03:44	24° る 48'24	0.61846 AU	evening rise	10558 Oct 22 15:44	17°M25'46	
inferior conj	10558 Jan 06 03:42	22° る 04'14			10558 Oct 28 20:25	0° ∡ ¹	
minimum elong	10558 Jan 06 09:12	21°る51'37	2°41'56	desc. node	10558 Nov 08 06:09	17° ∡ 756'35	
morning rise	10558 Jan 13 10:17	17°る02'52			10558 Nov 17 05:12	0°る	26047117
asc. node	10558 Jan 14 15:05	16° ろ 46'09		evening max el	10558 Nov 21 16:42	4°る43'03 11°る51'39	26°47'17
direct morning max el	10558 Jan 15 15:12 10558 Jan 22 12:34	16°る41'41 20°る11'08	17°50'00	retrograde evening set	10558 Dec 05 15:09 10558 Dec 12 09:38	9° る 55'47	
morning max er	10558 Jan 22 12:54 10558 Jan 29 19:50	20° ⊘ 11'08	17 30 00	min. Earth dist.	10558 Dec 12 09:38 10558 Dec 16 06:59	9° ろ 3347 7° ろ 18'13	0.59736 AU
morning set	10558 Feb 07 06:17	0 ∞ 14°≈40'23		inferior conj	10558 Dec 19 11:12	4°る46'04	
	10558 Feb 15 22:00	0° \		minimum elong	10558 Dec 19 18:52	4°る30'43	3°56'40
desc. node	10558 Feb 17 08:43	2° ∺ 29'35		morning rise	10558 Dec 27 06:47	0° る 05'18	
		,,_,,,,			10558 Dec 27 15:45	30°R. ₹	
superior conj	10558 Feb 18 07:21	4° ₩ 06'22	-0°07'10	direct	10558 Dec 29 09:49	29° ∡ ¹48'33	
minimum elong	10558 Feb 18 06:43	4°) €03'38	0°06'47		10558 Dec 31 03:08	ರ∘ರ	
behind sun begin	10558 Feb 17 22:50	3° ∺ 30′00		asc. node	10559 Jan 01 12:12	0° る 25'57	
behind sun end	10558 Feb 18 14:36	4° ¥ 37'11		morning max el	10559 Jan 06 01:09	3° る 35'41	18°10'19

morning set	10559 Jan 21 17:24	28° る 28'58		morning set	10560 Jan 05 15:06	12° る 45'50	
morning set	10559 Jan 22 12:46	0° ≈		morning sec	10300 3411 03 13.00	12 043 30	
				superior conj	10560 Jan 14 03:36	29° る 20'28	0°58'54
superior conj	10559 Jan 31 07:46	16° ≈ 16′16	0°29'45	minimum elong	10560 Jan 14 06:42	29° る 35'08	0°58'57
minimum elong	10559 Jan 31 09:57	16° ≈ 26'07	0°29'48		10560 Jan 14 11:57	0° ≈	
desc. node	10559 Feb 04 05:31	23°≈11'14		max. Earth dist.	10560 Jan 21 05:49	12° ≈ 21'35	1.39336 AU
max. Earth dist.	10559 Feb 07 22:37	29° ≈ 33'00	1.41497 AU	desc. node	10560 Jan 22 02:21	13°≈52'09	
evening rise	10559 Feb 08 05:02 10559 Feb 12 21:58	0° ∺ 7° ∺ 45'58		evening rise	10560 Jan 25 03:46 10560 Jan 31 17:52	19° ≈ 09'19 0° ¥	
evening rise	10559 Feb 27 10:00	0° Υ			10560 Feb 21 16:32	0°Υ	
evening max el	10559 Mar 18 16:22	* .	22°58'52	evening max el	10560 Feb 29 06:25	8° Υ 35'08	24°19'01
	10559 Mar 25 12:04	0°8		retrograde	10560 Mar 11 14:37	15° Y 13'50	
retrograde	10559 Mar 28 22:07	0° 8 49'41		asc. node	10560 Mar 16 07:36	13° Y 31'55	
asc. node	10559 Mar 30 10:21	0° 8 38'41		evening set	10560 Mar 17 00:41	12° Y 57'52	
	10559 Apr 01 01:58	30° ₹Ƴ		min. Earth dist.	10560 Mar 21 15:57	7° Y 39'04	0.68277 AU
evening set	10559 Apr 02 20:08	28° Y 46'56		inferior conj	10560 Mar 22 12:53	6° Y 28'39	1°52'39
inferior conj	10559 Apr 08 04:53	22° Y ′21'54	2°28'42	minimum elong	10560 Mar 22 10:47	6° Y 35'45	1°51'58
minimum elong	10559 Apr 08 02:44	22° Y 29'21 22° Y 52'51	2°27'59	morning rise	10560 Mar 27 20:58	0°Υ28'06	
min. Earth dist. morning rise	10559 Apr 07 19:57 10559 Apr 13 09:12	22° γ 52'51 16° Υ 14'07	0.68629 AU	direct	10560 Mar 28 13:28 10560 Mar 31 18:43	30° ₹ ₩ 29° ₩ 01'05	
direct	10559 Apr 17 19:52	16 γ 14 07 14° γ 25'17		direct	10560 Apr 04 05:01	29 γ (0103	
morning max el	10559 Apr 26 12:07	19° Υ 26'14	21°19'40	morning max el	10560 Apr 08 09:59	3°Υ18'26	20°05'31
desc. node	10559 May 03 06:22	27° Y ′18'56	21 17 10	desc. node	10560 Apr 19 03:09	16° Υ 46'48	20 00 01
	10559 May 05 07:18	0°B			10560 Apr 28 03:11	0°8	
	10559 May 25 17:35	$\Pi^{\circ}0$		morning set	10560 May 05 21:32	11° 8 49'31	
morning set	10559 May 27 20:24	3° Ⅱ 19′12		max. Earth dist.	10560 May 16 03:37	27° 8 53'37	1.44145 AU
max. Earth dist.	10559 Jun 03 17:29	14° Ⅱ 22'47	1.42420 AU		10560 May 17 11:12	Π °0	
	10550 I 11 02:24	260T 45145	1052120		105(0 M 21 10-02	70T00127	2010141
superior conj minimum elong	10559 Jun 11 02:34 10559 Jun 11 08:54	26° Ⅱ 45'45 27° Ⅱ 12'59		superior conj minimum elong	10560 May 21 19:02 10560 May 21 22:15	7° П 00'27 7° П 13'39	
minimum ciong	10559 Jun 12 23:31	0°95	1 33 37	evening rise	10560 Jun 03 19:44	7 П 13 39 28° П 55'55	2 11 04
evening rise	10559 Jun 22 10:49	16°952'41		evening rise	10560 Jun 04 10:37	0°95	
asc. node	10559 Jun 26 08:51	23° © 56'22		asc. node	10560 Jun 12 05:52	13° © 15'03	
	10559 Jun 29 20:04	$0^{\circ}\Omega$		evening max el	10560 Jun 21 08:49	25° © 53'42	18°06'25
evening max el	10559 Jul 08 19:13	12° Ω 38′12	18°06'50	retrograde	10560 Jun 27 18:24	29° 5 14'00	
retrograde	10559 Jul 15 14:01	16° Ω 05'32		evening set	10560 Jun 30 12:31	28° © 35'25	
evening set	10559 Jul 18 00:17	15° Ω 39'17		inferior conj	10560 Jul 06 18:37	23° © 22'56	2°27'06
inferior conj	10559 Jul 24 21:09	10° Ω 45'51	1°32'02	minimum elong	10560 Jul 06 21:18	23° © 15'48	
minimum elong	10559 Jul 24 23:40	10° Ω 40'00	1°30'48	min. Earth dist.	10560 Jul 09 14:52	20°523'18	0.62544 AU
min. Earth dist. desc. node	10559 Jul 28 03:32 10559 Jul 30 05:39	7° Ω 45'11 6° Ω 02'04	0.60295 AU	morning rise desc. node	10560 Jul 13 04:10 10560 Jul 16 02:48	17° © 14'00 15° © 32'29	
morning rise	10559 Jul 31 20:10	4°Ω55'18		direct	10560 Jul 19 21:14	13 3 32 29	
direct	10559 Aug 07 09:03	2° Ω 51'11		morning max el	10560 Aug 02 23:15	22°548'49	27°54'42
morning max el	10559 Aug 21 16:27	10° Ω 46'07	27°49'34		10560 Aug 09 07:55	$0^{\circ}\Omega$	_,
C	10559 Sep 05 16:17	0° m)			10560 Aug 28 22:14	0° m)	
asc. node	10559 Sep 22 09:09	0° ≙ 05'40		morning set	10560 Sep 06 02:21	15° m 39'04	
	10559 Sep 22 08:03	0∘ 亚		asc. node	10560 Sep 08 05:57	20° m 04'31	
morning set	10559 Sep 23 03:20	1° ≏ 40'00		max. Earth dist.	10560 Sep 11 10:35		1.32102 AU
max. Earth dist.	10559 Sep 29 05:32	14° ≏ 48'08	1.31543 AU		10560 Sep 12 21:30	0∘ ⊽	
superior conj	10559 Sep 30 08:01	17° ♀ 14'42	1°11'54	superior conj	10560 Sep 13 16:52	1° ≏ 45'38	0°51'57
minimum elong	10559 Sep 30 05:46	17° ⊆ 02'18	1°11'40	minimum elong	10560 Sep 13 14:48	1° - 34'22	0°51'31
	10559 Oct 06 02:42	0°M		evening rise	10560 Sep 20 12:34	16° ♀ 39'48	
evening rise	10559 Oct 07 01:17	2°ML01'57		C	10560 Sep 27 01:01	0°M	
	10559 Oct 21 23:08	0° ∡ ¹		desc. node	10560 Oct 12 00:34	23°M07'18	
desc. node	10559 Oct 26 03:21	6° ₰ 07'07		evening max el	10560 Oct 14 23:56	26°M14'53	24°03'28
evening max el	10559 Nov 03 11:58	15° ∡ ′51'42	25°37'03		10560 Oct 19 14:11	0° ∡	
retrograde	10559 Nov 17 09:19	22° х 51'49		retrograde	10560 Oct 28 15:16	3° ∡ 704'15	
evening set	10559 Nov 23 11:18	21° x ⁷ 26'21	0.53603.433	evening set	10560 Nov 02 12:26	2° √ 12'01	
min. Earth dist.	10559 Nov 28 00:21	18° 🗷 49'07	0.57687 AU	min. Earth dist.	10560 Nov 07 04:39	30°Rጤ 29°ጤ16'21	0.55958 AU
inferior conj minimum elong	10559 Nov 30 23:49 10559 Dec 01 07:14	16° ₹ 45'25 16° ₹ 32'32		inferior conj	10560 Nov 08 10:32 10560 Nov 10 15:49	29°11616'21 27°11655'15	
morning rise	10559 Dec 01 07.14 10559 Dec 09 05:30	10 x · 32 32 12° x 27'06	3 0231	minimum elong	10560 Nov 10 13:49 10560 Nov 10 18:20	27°M51'25	
direct	10559 Dec 11 11:53	12° x 27'00		morning rise	10560 Nov 19 02:15	23°M57'44	220
asc. node	10559 Dec 19 09:15	15° ∡ '38'04		direct	10560 Nov 21 18:23	23°M39'22	
morning max el	10559 Dec 20 05:40	16° ∡ ¹25′03	18°51'33	morning max el	10560 Dec 01 22:28	28°M28'47	19°55'27
	10559 Dec 29 20:54	0°ප			10560 Dec 03 10:16	0° ∡ 7	

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asc. node	10560 Dec 05 06:15	2° ⋌ '08'14		asc. node	10561 Nov 22 03:12	19° M 40'40	
morning set	10560 Dec 19 19:48	27° ∡ °20′25			10561 Nov 28 03:54	0° ∡ ¹	
	10560 Dec 21 03:10	0°₹		morning set	10561 Dec 04 04:52	12° ∡ °04'48	
	10560 D 27 14 05	120705122	1010151		10561 D 11 11 02	270 71005	1022102
superior conj	10560 Dec 27 14:05		1°19'51	superior conj	10561 Dec 11 11:02	27° √ 19'15	1°33'03
minimum elong	10560 Dec 27 16:48	13°る19'05	1°20'04	minimum elong	10561 Dec 11 12:45	27° ∡ *28'11	1°33'28
max. Earth dist.	10561 Jan 02 12:20	24° ⋜ 34'10	1.37143 AU	D. d. F.	10561 Dec 12 18:09	0°る	1 25156 444
	10561 Jan 05 11:02	0° ≈		max. Earth dist.	10561 Dec 15 22:44	6° る 27'18	1.35156 AU
evening rise	10561 Jan 06 06:04	1°≈25'47		evening rise	10561 Dec 20 01:40	14°る26'57	
desc. node	10561 Jan 07 23:15	4°≈28'41		desc. node	10561 Dec 25 20:12	24° る 56'17	
	10561 Jan 23 21:47	0° ∀	25022121		10561 Dec 28 19:10	0° ≈	
evening max el	10561 Feb 10 19:41	22°\ 24'46	25°33'31		10562 Jan 18 15:47	0°) {	2 (02 510 0
retrograde	10561 Feb 23 02:43	29° ¥ 29'36		evening max el	10562 Jan 24 09:02	6°) €09'51	26°35'08
evening set	10561 Mar 01 00:57	27° ₩ 02'58		retrograde	10562 Feb 06 09:39	13° ¥ 29′27	
asc. node	10561 Mar 03 04:49	24°) 55′54		evening set	10562 Feb 12 19:08	10° ¥ 56′28	
min. Earth dist.	10561 Mar 05 09:06	22° 米 19′12	0.67509 AU	min. Earth dist.	10562 Feb 16 21:14	6°) 47′00	0.66350 AU
inferior conj	10561 Mar 06 17:55	20°) 34′09	1°07'25	asc. node	10562 Feb 18 02:02	5° ¥ 21'16	
minimum elong	10561 Mar 06 16:23	20° ¥ 39′07	1°06'59	inferior conj	10562 Feb 18 17:55	4°) 33′36	0°12'59
morning rise	10561 Mar 12 08:17	14° ∺ 42'19		minimum elong	10562 Feb 18 17:33	4°) 34'40	0°13'06
direct	10561 Mar 15 18:05	13° ¥ 35'41		transit middle	10562 Feb 18 17:33	4°) 34'40	0°13'06
morning max el	10561 Mar 22 15:46	17° ¥ 22'01	19°05'58	transit begin	10562 Feb 18 15:52	4°) 39'43	
	10561 Apr 01 12:23	0 ° Υ		transit end	10562 Feb 18 19:14	4° ∺ 29'38	
greatest brilliancy	10561 Apr 04 21:01	4° Υ ′59'22	-0.7m		10562 Feb 23 01:35	30° ₹ ≈	
desc. node	10561 Apr 05 23:55	6° Ƴ 41'00		morning rise	10562 Feb 24 17:00	28° ≈ 52′20	
morning set	10561 Apr 15 00:33	20° Ƴ 33'13		direct	10562 Feb 27 16:15	28° ≈ 03'10	
	10561 Apr 21 02:42	9° 8			10562 Mar 04 10:41	0°) €	
max. Earth dist.	10561 Apr 28 19:31	12° 8 01'47	1.45258 AU	morning max el	10562 Mar 06 04:06	1° ∺ 31′09	18°22'33
	-			desc. node	10562 Mar 23 20:40	26° ¥ 54'00	
superior conj	10561 May 01 12:54	16° 8 19'17	-2°10'28		10562 Mar 25 19:23	0° Υ	
minimum elong	10561 May 01 09:03	16° 8 04'04	2°10'42	morning set	10562 Mar 26 02:12	0° Y 27′05	
Č	10561 May 10 02:30	0° I I		C			
evening rise	10561 May 16 06:16	10° Ⅲ 01'10		superior conj	10562 Apr 10 19:13	25° Y 14'05	-1°49'56
S	10561 May 28 16:16	0° ©		minimum elong	10562 Apr 10 10:00	24° Y 38'02	1°49'21
asc. node	10561 May 30 02:56	2°908'05		max. Earth dist.	10562 Apr 11 14:19		1.45659 AU
evening max el	10561 Jun 04 22:02	9° 5 23'57	18°24'26	man. Barar and.	10562 Apr 13 20:23	0°8	1000
retrograde	10561 Jun 11 08:13	12° © 51'15	10 2.20	evening rise	10562 Apr 26 16:52	20° 8 07'48	
evening set	10561 Jun 14 10:09	11°958'36		evening rise	10562 May 02 23:37	0°II	
inferior conj	10561 Jun 20 05:27	6°929'04	3°00'14	greatest brilliancy	10562 May 06 19:45	5° Ⅱ 58'18	-0.8m
minimum elong	10561 Jun 20 07:19	6° © 23'35	2°59'25	asc. node	10562 May 17 00:03	20° Ⅲ 26'17	0.0111
min. Earth dist.	10561 Jun 22 11:43	3°549'59	0.64581 AU	evening max el	10562 May 17 00:05 10562 May 19 08:15	23° I I02'00	19°00'06
morning rise	10561 Jun 26 03:22	0° © 10'49	0.04301 AC	retrograde	10562 May 26 03:38	26° II 48'58	17 00 00
morning risc	10561 Jun 26 08:44	30°RⅡ		evening set	10562 May 29 13:44	25° Ⅱ 41'09	
direct	10561 Jul 02 18:08	27° Ⅱ 29'40		inferior conj	10562 Jun 04 01:54	19° Ⅱ 56'15	2015142
		27° Ⅱ 29'40 27° Ⅱ 29'52		-		19 Ⅱ 50 13	
desc. node	10561 Jul 02 23:55	0°95		minimum elong min. Earth dist.	10562 Jun 04 02:36 10562 Jun 05 17:11	19 Ⅱ 5402 17° Ⅱ 51'23	0.66262 AU
	10561 Jul 09 21:23 10561 Jul 16 09:28		27922157		10562 Jun 09 14:51	17 Ц 3123 13° Ц 35'14	0.00202 AU
morning max el		5°\$28'56	21°23'56	morning rise			
. ,	10561 Aug 04 01:21	0°N		direct	10562 Jun 15 22:19	10° Ⅱ 51'23	
morning set	10561 Aug 20 16:46	29° Ω 11′22		desc. node	10562 Jun 19 20:58	11° Ⅱ 44'51	26024110
D d C	10561 Aug 21 02:40	0° m)	1 22164 444	morning max el	10562 Jun 28 20:13	18° Ⅱ 33'23	26°24'19
max. Earth dist.	10561 Aug 25 07:53	8° m/30'59	1.33164 AU		10562 Jul 08 11:55	0° ©	
asc. node	10561 Aug 26 02:46	10° m) 08'55			10562 Jul 28 01:36	0°N	
				morning set	10562 Aug 03 19:16	12°Ω08'06	
superior conj	10561 Aug 28 21:22	16° Mp 00'04		max. Earth dist.	10562 Aug 07 18:45	19° 8 (46'05	1.34717 AU
minimum elong	10561 Aug 28 20:04	15° m 53'08	0°26'44			_	
	10561 Sep 04 09:46	0∘ ত		superior conj	10562 Aug 12 19:06	29° Ω 51'35	
evening rise	10561 Sep 04 23:45	1° ≏ 14'25		minimum elong	10562 Aug 12 19:13	29° £ 52′13	0°02'08
	10561 Sep 21 00:16	0° M ₊		behind sun begin	10562 Aug 12 13:21	29° £ 22′03	
evening max el	10561 Sep 26 11:20	6° M 21′26	22°22'56	behind sun end	10562 Aug 13 01:05	0° Mg 22′25	
desc. node	10561 Sep 28 21:49	8°M31'51		asc. node	10562 Aug 12 23:37	0° m)14'51	
retrograde	10561 Oct 09 09:32	12°M47'39			10562 Aug 12 20:43	0° m	
evening set	10561 Oct 12 18:53	12°M22'16		evening rise	10562 Aug 20 08:51	15° m 40'14	
min. Earth dist.	10561 Oct 20 17:58	8°M50'18	0.54859 AU		10562 Aug 27 14:36	0∘ ত	
inferior conj	10561 Oct 21 14:37	8° M 21′10	-5°32'43	evening max el	10562 Sep 08 07:41	16° ≏ 49'21	20°51'36
minimum elong	10561 Oct 21 08:56	8° M 29′11	5°31'45	desc. node	10562 Sep 15 19:05	21° ≏ 51′08	
morning rise	10561 Oct 30 00:37	4°M33'56		retrograde	10562 Sep 19 21:17	22° ჲ 33'35	
direct	10561 Nov 02 07:55	4° M ₀09'22		evening set	10562 Sep 22 03:24	22° ₽ 21'25	
morning max el	10561 Nov 14 01:43	9° M 41'53	21°21'31	inferior conj	10562 Oct 01 06:46	18° ≏ 25'56	-4°25'17

minimum elong	10562 Sep 30 20:52	18° ≏ 40'02	4022127		10563 Sep 09 02:34	30°R. ™)	
min. Earth dist.	10562 Sep 30 20:32 10562 Oct 02 02:07	18 ≅ 40 02 17° £ 58'22	0.54641 AU	inforior coni	10563 Sep 11 06:35	28° Mp 40'23	2020120
morning rise	10562 Oct 02 02.07	17 22 38 22 14° 2 29'50	0.34041 AU	inferior conj minimum elong	10563 Sep 11 06.33	28° m 51'29	2°36'05
direct	10562 Oct 13 16:06	14 ≥ 29 30 13° ♀ 54'14		min. Earth dist.	10563 Sep 10 25.30 10563 Sep 13 12:44	28 ily 31 29 27° mg 15'36	0.55376 AU
morning max el		13 ≥ 34 14 20° ♀ 11'21	22904!12		•	-	0.33370 AU
morning max er	10562 Oct 26 17:37 10562 Nov 03 22:51	0°M	25 04 15	morning rise	10563 Sep 19 10:08	24° Mp 16'37 23° Mp 23'30	
aga mada		ง แน 8°Mo1'06		direct	10563 Sep 24 07:31	0° ⊡	
asc. node	10562 Nov 09 00:08 10562 Nov 18 16:13	26°M53'10		morning may al	10563 Oct 07 20:43 10563 Oct 08 04:47	0° ≏ 18'55	24°51'04
morning set	10562 Nov 20 03:14	20 IIL33 10 0° √		morning max el asc. node	10563 Oct 26 21:02	0 2 18 33 26° 2 57'02	24 31 04
	10302 NOV 20 03.14	0 X		asc. Houe	10563 Oct 28 11:23	20 = 37 02 0° M	
:	10562 Nov 25 15:14	11° ∡ 752'11	1°39'12		10563 Nov 03 04:00	11°M39'35	
superior conj minimum elong	10562 Nov 25 15:45	11° x '52'11	1°39'41	morning set	10303 NOV 03 04.00	11 1163933	
max. Earth dist.	10562 Nov 28 16:50	18° × 22'35	1.33541 AU	superior conj	10563 Nov 09 23:59	26°M35'27	1°38'57
	10562 Dec 03 10:56	28° × 03'38	1.55541 AU	minimum elong	10563 Nov 09 23:21	26°M32'03	1°39'21
evening rise	10562 Dec 04 10:39	28 x・03 38		minimum elong	10563 Nov 11 13:23	20 11€3203 0° √ 1	1 39 21
daga mada		0 る 15° る 10'01		max. Earth dist.		0° x ¹ 29'37	1.32371 AU
desc. node	10562 Dec 12 17:14	0°≈			10563 Nov 11 18:50		1.323/1 AU
	10562 Dec 22 00:21		27017124	evening rise	10563 Nov 17 06:19	12° ₹ 05'52	
evening max el	10563 Jan 06 22:17	19° ≈ 42'12	27°16'34		10563 Nov 26 15:42	0°る	
retrograde	10563 Jan 20 10:31	27°≈05'29		desc. node	10563 Nov 29 14:18	5° る 02'34	
evening set	10563 Jan 27 05:08	24°≈32'13			10563 Dec 17 14:58	0° ≈	
min. Earth dist.	10563 Jan 31 02:15	20° ≈ 55'31	0.64835 AU	evening max el	10563 Dec 20 09:43	2° ≈ 48'41	27°30'59
inferior conj	10563 Feb 02 10:31	18° ≈ 21'52		retrograde	10564 Jan 03 04:16	10° ≈ 08′00	
minimum elong	10563 Feb 02 12:02	18° ≈ 17'44	0°49'18	evening set	10564 Jan 10 04:16	7° ≈ 42'04	
asc. node	10563 Feb 04 23:13	15° ≈ 43'32		min. Earth dist.	10564 Jan 13 22:04	4° ≈ 34'48	0.63010 AU
morning rise	10563 Feb 08 20:35	12° ≈ 53'27		inferior conj	10564 Jan 16 16:54	1° ≈ 51'09	
direct	10563 Feb 11 10:59	12° ≈ 18′05		minimum elong	10564 Jan 16 20:52		1°59'13
morning max el	10563 Feb 17 20:32	15° ≈ 38′56	17°56'01		10564 Jan 18 15:31	30°₹⋜	
	10563 Feb 28 05:24	0° ∀		asc. node	10564 Jan 22 20:24	26° る 58'51	
morning set	10563 Mar 07 09:11	11°) 48′10		morning rise	10564 Jan 23 15:42	26° る 38'43	
desc. node	10563 Mar 10 17:28	17°) € 20'43		direct	10564 Jan 25 23:25	26° る 13'19	
	10563 Mar 18 11:47	0° Y		morning max el	10564 Feb 01 14:06	29° る 36'50	17°46'57
					10564 Feb 01 23:18	0° ≈	
superior conj	10563 Mar 21 08:19	4° Ƴ 34'12	-1°13'35	morning set	10564 Feb 17 17:26	24° ≈ 22′10	
minimum elong	10563 Mar 21 00:21	4° Υ ′02'28	1°12'35		10564 Feb 20 23:09	0° ∀	
max. Earth dist.	10563 Mar 25 09:54	11° Y ′00'15	1.45320 AU	desc. node	10564 Feb 25 14:15	7° ¥ 56′18	
evening rise	10563 Apr 06 09:17	29° Y 35'37					
	10563 Apr 06 15:38	9° 8		superior conj	10564 Feb 29 18:25	14° ¥ 55'58	-0°31'01
greatest brilliancy	10563 Apr 20 21:17	21° 8 30'39	-0.6m	minimum elong	10564 Feb 29 15:13	14°) (42′45	0°30'22
	10563 Apr 26 22:08	Π $^{\circ}0$		max. Earth dist.	10564 Mar 07 03:57	25°) €20'53	1.44272 AU
evening max el	10563 May 02 13:42	6° Ⅱ 43'50	19°51'54		10564 Mar 10 02:11	0° Y	
asc. node	10563 May 03 21:12	7° Ⅱ 58'50		evening rise	10564 Mar 15 21:02	9° Y 01'04	
retrograde	10563 May 10 01:45	11° Ⅱ 01'25			10564 Mar 29 21:05	0°B	
evening set	10563 May 13 20:44	9° Ⅱ 37'51		evening max el	10564 Apr 14 13:33	20° 8 27'25	20°57'24
inferior conj	10563 May 19 04:53	3° Ⅲ 39′01	3°16'53	asc. node	10564 Apr 19 18:23	24° 8 32'27	
minimum elong	10563 May 19 04:26	3° Ⅱ 40'30	3°16'25	retrograde	10564 Apr 23 00:23	25° 8 24'00	
min. Earth dist.	10563 May 20 05:30	2° Ⅱ 16'19	0.67516 AU	evening set	10564 Apr 27 05:11	23° 8 44'35	
	10563 May 21 23:53	30°R₩		inferior conj	10564 May 02 11:53	17° 8 33'31	3°06'14
morning rise	10563 May 24 11:48	27° 8 19'19		minimum elong	10564 May 02 10:32	17° 8 38'13	3°05'42
direct	10563 May 30 08:30	24° 8 43'01		min. Earth dist.	10564 May 02 22:45	16° 8 55'55	0.68307 AU
desc. node	10563 Jun 06 18:00	27° 8 49'38		morning rise	10564 May 07 15:40	11° 8 17'26	
	10563 Jun 09 08:01	$\Pi^{\circ}0$		direct	10564 May 12 23:34	8° 8 56'28	
morning max el	10563 Jun 11 06:02	1° Ⅱ 51'22	25°05'05	morning max el	10564 May 23 15:38		23°36'24
S	10563 Jul 02 13:24	0°©		desc. node	10564 May 23 14:58	15° 8 16'29	
morning set	10563 Jul 17 05:34	24°917'25			10564 Jun 04 16:18	0°II	
morning sec	10563 Jul 20 09:06	0°Ω			10564 Jun 24 12:17	0°©	
max. Earth dist.	10563 Jul 20 19:50	0° Ω 49'39	1.36708 AU	morning set	10564 Jun 27 18:39	5° 9 27'10	
				max. Earth dist.	10564 Jul 01 16:52	12° © 13'09	1.38967 AU
superior conj	10563 Jul 27 07:04	13° Ω 12'03	-0°33'59		01 10.52	-=507	
minimum elong	10563 Jul 27 07:04 10563 Jul 27 09:14	13° Ω 22'44		superior conj	10564 Jul 09 05:39	25° © 52'56	-1°07'18
asc. node	10563 Jul 30 20:28	20°Ω17'59	3 2 . 00	minimum elong	10564 Jul 09 10:11	26° © 14'09	
evening rise	10563 Aug 04 13:33	20° Ω 50'23		ciong	10564 Jul 11 09:59	0°Ω	1 07 03
evening Hee	10563 Aug 04 15:35 10563 Aug 04 15:28	0°m)		asc. node	10564 Jul 16 17:22	10° Ω 14'51	
evening max el	10563 Aug 04 15.28 10563 Aug 21 17:35	رانا 27° m 59'45	19°38'34	evening rise	10564 Jul 18 11:08	13° Ω 38'08	
evening max ci	10563 Aug 24 00:07	27 III/3943	17 30 34	evening 1150	10564 Jul 27 07:55	0°m)	
retrogrado	10563 Aug 24 00:07 10563 Aug 31 14:19	2° £ 53'32		evening max el	10564 Aug 03 16:00	9° Mn 55'45	18°46'38
retrograde	-	2° £ 33′32 2° £ 43′55		•	•		10 40 38
evening set	10563 Sep 02 10:49	2° 2 43′55 2° 2 41′25		retrograde	10564 Aug 11 23:52	14°Mp05'17	
desc. node	10563 Sep 02 16:23	Z ==41°23		evening set	10564 Aug 13 22:38	13° M 52'27	

daga mada	10564 Aug 10 12:20	110 mm 15107		avanina sat	10565 Iv. 27 10:00	250 0 40126	
desc. node inferior conj	10564 Aug 19 13:38 10564 Aug 22 00:58	11° Mp 15'07 9° Mp 30'57	0°46'01	evening set inferior conj	10565 Jul 27 10:09 10565 Aug 03 17:11	25° Ω 48'26 21° Ω 06'29	0°48'57
minimum elong	10564 Aug 21 23:04	9° m) 34'25	0°45'29	minimum elong	10565 Aug 03 17:11 10565 Aug 03 18:46	21° Ω 03'05	0°48'00
min. Earth dist.	10564 Aug 25 03:51	7° Mg 15'13	0.56921 AU	desc. node	10565 Aug 06 10:53	18°Ω46'08	0 40 00
morning rise	10564 Aug 29 20:10	4° mg 29'49	0.50721710	min. Earth dist.	10565 Aug 07 01:43	18° Ω 15'38	0.58992 AU
direct	10564 Sep 04 12:12	3° mp 11'54		morning rise	10565 Aug 11 00:01	15° Ω 30'48	0.50772710
morning max el	10564 Sep 18 18:55	10° mp 37'08	26°24'36	direct	10565 Aug 17 06:54	13°Ω43'20	
morning max or	10564 Oct 03 15:51	0° ⊽	20 2130	morning max el	10565 Aug 31 15:56	21° Ω 30'33	27°29'13
asc. node	10564 Oct 12 17:54	16° Ω 19'18		morning man er	10565 Sep 08 02:04	0° m)	2, 2, 13
morning set	10564 Oct 17 14:34	26° ₽ 19'29			10565 Sep 26 14:18	0∘ <mark>⊽</mark>	
8.4.1	10564 Oct 19 07:30	0°M₊		asc. node	10565 Sep 29 14:43	6° Ω 00'16	
				morning set	10565 Oct 01 22:11	10° ≏ 47'55	
superior conj	10564 Oct 24 11:09	11°M22'46	1°32'47	C			
minimum elong	10564 Oct 24 09:37	11° M .14'15	1°32'58	superior conj	10565 Oct 08 22:52	26° ≏ 08'14	1°21'03
max. Earth dist.	10564 Oct 25 02:19	12°M46'58	1.31668 AU	minimum elong	10565 Oct 08 20:46	25° ≏ 56'33	1°20'59
evening rise	10564 Oct 31 09:01	26°M26'05		max. Earth dist.	10565 Oct 08 11:45	25° ഫ 06'23	1.31441 AU
-	10564 Nov 02 02:09	0°∡7			10565 Oct 10 16:31	0° M	
desc. node	10564 Nov 15 11:24	24° ₹ 25'25		evening rise	10565 Oct 15 16:37	10°M57'41	
	10564 Nov 19 03:14	ರ°ರ			10565 Oct 25 07:38	0° ∡ ¹	
evening max el	10564 Dec 01 16:39	15° る 15'56	27°13'01	desc. node	10565 Nov 02 08:33	13° ∡ ¹06'56	
retrograde	10564 Dec 15 13:58	22° る 28'19		evening max el	10565 Nov 13 16:26	26° ₹ ′53'40	26°21'00
evening set	10564 Dec 22 13:13	20° る 18'31			10565 Nov 17 08:42	ರ°0	
min. Earth dist.	10564 Dec 26 07:10	17° る 33'45	0.60964 AU	retrograde	10565 Nov 27 14:39	3° る 59'13	
inferior conj	10564 Dec 29 09:45	14° る 52'56	-3°16'43	evening set	10565 Dec 04 03:45	2° る 15'05	
minimum elong	10564 Dec 29 16:19	14° る 38'43	3°13'51		10565 Dec 07 18:40	30°Ŗ ⋌ ¹	
morning rise	10565 Jan 05 22:02	9° る 59'55		min. Earth dist.	10565 Dec 08 05:45	29° х 40′09	0.58840 AU
direct	10565 Jan 08 01:48	9° る 40'54		inferior conj	10565 Dec 11 09:34	27° ∡ 17'49	-4°29'22
asc. node	10565 Jan 08 17:34	9° る 42'43		minimum elong	10565 Dec 11 17:35	27° ∡ *02'44	4°26'41
morning max el	10565 Jan 15 05:32	13° る 16'23	17°56'12	morning rise	10565 Dec 19 10:02	22° ∡ ¹46'57	
	10565 Jan 26 13:05	0° ≈		direct	10565 Dec 21 13:45	22° ∡ ³31′02	
morning set	10565 Jan 30 20:23	7° ≈ 48′28		asc. node	10565 Dec 26 14:40	24° ₹ 03'31	
				morning max el	10565 Dec 29 15:15	26° ∡ ¹28′03	18°25'16
superior conj	10565 Feb 10 05:31	26° ≈ 28'45	0°09'23		10566 Jan 01 17:36	0°ಕ	
minimum elong	10565 Feb 10 06:20	26° ≈ 32'21	0°09'35	morning set	10566 Jan 14 12:31	21° る 51'01	
behind sun begin	10565 Feb 09 23:45	26°≈03'35			10566 Jan 18 18:42	0° ≈	
behind sun end	10565 Feb 10 12:56	27°≈01'03			10566 7 20 14 50	00 0421	00.4240.6
desc. node	10565 Feb 11 11:01	28°≈36'44		superior conj	10566 Jan 23 14:53	9°≈04'31	0°43'06
P. d. F.	10565 Feb 12 06:21	0°){	1 42/22 411	minimum elong	10566 Jan 23 17:40	9°≈17'16	0°43'07
max. Earth dist.	10565 Feb 17 18:01	9°) 13'47 18°) 58'36	1.42633 AU	desc. node	10566 Jan 29 07:48	19°≈18'58	1 40502 ATT
evening rise	10565 Feb 23 18:55	18°π38'36		max. Earth dist.	10566 Jan 31 03:03 10566 Feb 04 12:18	22°≈26'24 29°≈49'46	1.40593 AU
	10565 Mar 02 21:58 10565 Mar 24 12:42	0° ∀		evening rise	10566 Feb 04 12:18 10566 Feb 04 14:46	29° ≈ 49°46 0° ∺	
evening max el	10565 Mar 28 08:10	4° 8 11'41	22012152		10566 Feb 24 09:04	0 K 0°Υ	
retrograde	10565 Apr 06 21:48	9° 8 51'10	22 12 33	evening max el	10566 Mar 10 23:09	17° Υ 58'28	23°33'07
asc. node	10565 Apr 06 15:36	9° 8 50'51		retrograde	10566 Mar 21 16:36	24° Y 18'23	23 33 07
evening set	10565 Apr 11 13:20	7° 8 56'26		asc. node	10566 Mar 24 12:50	23° Υ '39'54	
inferior conj	10565 Apr 16 20:47	1° 8 35'27	2°45'12	evening set	10566 Mar 26 19:40	22°Υ09'36	
minimum elong	10565 Apr 16 18:49	1° 8 42'20	2°44'33	min. Earth dist.	10566 Mar 31 15:32	16° Υ 30'31	0.68530 AU
min. Earth dist.	10565 Apr 16 18:48	1° 8 42'25	0.68638 AU	inferior conj	10566 Apr 01 05:41	15° Υ 41'59	2°14'34
	10565 Apr 18 00:23	30°RY		minimum elong	10566 Apr 01 03:29	15° Υ 49'31	2°13'50
morning rise	10565 Apr 22 00:09	25° Y ′24′24		morning rise	10566 Apr 06 11:18	9° Y '37'06	
direct	10565 Apr 26 18:28	23° Y '23'25		direct	10566 Apr 10 16:15	7° Υ 57'50	
morning max el	10565 May 06 03:38	28° Y ′53'13	22°07'37	morning max el	10566 Apr 18 21:17	12° Y ′39'17	20°46'28
C	10565 May 07 05:30	0°B		desc. node	10566 Apr 27 08:40	22° Y ′51'34	
desc. node	10565 May 10 11:51	3° 8 42'27			10566 May 02 11:31	0° ႘	
	10565 May 29 08:51	$\Pi^{\circ}0$		morning set	10566 May 18 16:18	24° 8 19'14	
morning set	10565 Jun 08 05:58	15° Ⅱ 26'11			10566 May 22 07:10	Π°	
max. Earth dist.	10565 Jun 13 16:20	24° Ⅱ 21'46	1.41229 AU	max. Earth dist.	10566 May 26 21:47	7° Ⅱ 22'26	1.43218 AU
	10565 Jun 17 00:08	0 \circ \odot					
				superior conj	10566 Jun 02 16:48	18° Ⅱ 34'22	-2°02'36
superior conj	10565 Jun 21 10:21	7° 5 43'20	-1°38'31	minimum elong	10566 Jun 02 22:24	18° Ⅲ 57'51	2°02'45
minimum elong	10565 Jun 21 16:38	8° © 11'15	1°38'19		10566 Jun 09 08:59	0 \circ \odot	
evening rise	10565 Jul 01 22:01	26° © 53'50		evening rise	10566 Jun 14 17:49	9° © 26'55	
asc. node	10565 Jul 03 14:17	0° Ω 00′50		asc. node	10566 Jun 20 11:15	19° 5 31'20	
	10565 Jul 03 14:06	0 ° Ω			10566 Jun 26 23:18	0 $^{\circ}$ Ω	
evening max el	10565 Jul 17 23:20	22° Ω 30′02	18°15'35	evening max el	10566 Jul 01 11:43	5° £ 33'32	18°04'21
retrograde	10565 Jul 25 04:33	26° Ω 08'41		retrograde	10566 Jul 08 01:29	8° Ω 56′15	

evening set	10566 Jul 10 14:59	8° Ω 25'12		evening max el	10567 Jun 15 01:34	18°956'57	18°11'57
inferior conj	10566 Jul 17 05:07	3° Ω 23'37	1°58'21	retrograde	10567 Jun 21 10:15	22° © 18'22	
minimum elong	10566 Jul 17 07:53	3° Ω 16'48	1°57'04	evening set	10567 Jun 24 07:43	21° © 33'58	
min. Earth dist.	10566 Jul 20 08:00	0° Ω 20′20	0.61265 AU	inferior conj	10567 Jun 30 08:46	16° © 14'20	2°43'33
	10566 Jul 20 16:46	30° ₹ 🥯		minimum elong	10567 Jun 30 11:11	16° © 07'37	2°42'32
morning rise	10566 Jul 23 22:14	27° © 23'42		min. Earth dist.	10567 Jul 02 23:28	13° © 21'11	0.63450 AU
desc. node	10566 Jul 24 08:04	27° © 07'34		morning rise	10567 Jul 06 13:05	10° © 00'38	
direct	10566 Jul 30 13:44	25° © 08'23		desc. node	10567 Jul 11 05:13	7° 5 39'30	
	10566 Aug 10 08:49	$0^{\circ}\Omega$		direct	10567 Jul 13 06:05	7° © 25'43	
morning max el	10566 Aug 13 19:40	3° Ω 08'32	27°56'23	morning max el	10567 Jul 27 04:02	15° © 28'15	27°45'33
	10566 Sep 02 15:18	0° m)	27 0025	morning man er	10567 Aug 08 01:14	0° Ω	2, .000
morning set	10566 Sep 16 00:57	24° m 59'33			10567 Aug 26 07:42	0° m)	
asc. node	10566 Sep 16 11:30	25° m 54'06		morning set	10567 Aug 30 20:40	8° Mp 48'40	
asc. nouc	•	23 III/3400		asc. node	•	-	
Eth 4:t	10566 Sep 18 10:19		1 21711 ATT		10567 Sep 03 08:17	15° Mp 56'16	1 22400 ATT
max. Earth dist.	10566 Sep 21 19:18	7° ≏ 17'20	1.31711 AU	max. Earth dist.	10567 Sep 04 21:19	19° m 11'00	1.32489 AU
	105666 22 00 10	1000 46101	100400		10567.0 07.16.20	0.50m 1.1150	00.42100
superior conj	10566 Sep 23 09:19	10° ≏ 46'21	1°04'02	superior conj	10567 Sep 07 16:38	25° Mp 11'50	0°42'00
minimum elong	10566 Sep 23 07:05	10° ≏ 34'03	1°03'43	minimum elong	10567 Sep 07 14:48	25° m 01'59	0°41'34
evening rise	10566 Sep 30 03:07	25° ≏ 34'51			10567 Sep 09 21:39	0∘ ಹ	
	10566 Oct 02 05:04	0° M		evening rise	10567 Sep 14 14:37	10° ≏ 12'36	
	10566 Oct 19 14:14	0° ∡ ¹			10567 Sep 24 16:17	0° M	
desc. node	10566 Oct 20 05:46	0° ₰ 50′24		desc. node	10567 Oct 07 03:01	17° M 14'02	
evening max el	10566 Oct 26 08:02	7° ∡ ¹40'24	24°59'19	evening max el	10567 Oct 07 18:53	17° M 53'18	23°20'36
retrograde	10566 Nov 09 04:15	14° ∡ ³37'36		retrograde	10567 Oct 21 04:49	24°M34'24	
evening set	10566 Nov 14 19:09	13° ∡ ¹26'28		evening set	10567 Oct 25 10:40	23°M55'16	
min. Earth dist.	10566 Nov 19 19:50	10° х 43′32	0.56881 AU	min. Earth dist.	10567 Nov 01 04:38	20°M46'03	0.55394 AU
inferior conj	10566 Nov 22 13:23	8°×756'20		inferior conj	10567 Nov 02 21:20	19°M46'34	
minimum elong	10566 Nov 22 19:22	8°×746'30	5°24'28	minimum elong	10567 Nov 02 20:25	19°M47'54	
morning rise	10566 Nov 30 21:51	4° × ⁷ 47'33	3 24 20	morning rise	10567 Nov 11 07:57	15°M54'51	3 43 14
=				=			
direct	10566 Dec 03 07:18	4° 🗷 31'15	10015150	direct	10567 Nov 14 06:03	15°M34'14	20020120
morning max el	10566 Dec 12 15:15	8° ∡ 759'35	19°15'59	morning max el	10567 Nov 25 02:17	20°M41'54	20°29'29
asc. node	10566 Dec 13 11:43	9° ∡ 750'51		asc. node	10567 Nov 30 08:42	26° M 49'34 −	
	10566 Dec 26 09:01	0°ප			10567 Dec 02 13:01	0° ∡	
morning set	10566 Dec 29 13:35	6° る 16'29		morning set	10567 Dec 13 20:27	20° ∡ 56′07	
					10567 Dec 18 05:36	0°₹	
superior conj	10567 Jan 06 17:32	22° る 27'55	1°08'44				
minimum elong	10567 Jan 06 20:35	22° る 42'41	1°08'52	superior conj	10567 Dec 21 08:55	6° පි 26'16	1°26'20
	10567 Jan 10 16:31	0° ≈		minimum elong	10567 Dec 21 11:16	6° ප 38'10	1°26'39
max. Earth dist.	10567 Jan 13 08:56	4°≈56'20	1.38387 AU	max. Earth dist.	10567 Dec 26 16:34	16° පි 58'08	1.36265 AU
desc. node	10567 Jan 16 04:39	9° ≈ 58'41		evening rise	10567 Dec 30 13:19	24° る 13'58	
evening rise	10567 Jan 17 03:09	11° ≈ 37'03		, and the second	10568 Jan 02 18:17	0° ≈	
Z .	10567 Jan 28 08:25	0°) €		desc. node	10568 Jan 03 01:35	0° ≈ 32'03	
	10567 Feb 19 18:27	0°Υ		dese. node	10568 Jan 21 23:38	0° ∀	
evening max el	10567 Feb 21 12:40	1° Υ 48'02	24°51'48	evening max el	10568 Feb 04 02:11	15° ¥ 37'29	26°01'47
retrograde	10567 Mar 05 07:28	8° Υ 39'44	24 31 40	retrograde	10568 Feb 16 17:24	22° H 49'26	20 01 47
•				•		22 X 49 20 20° X 19'49	
evening set	10567 Mar 10 22:36	6° Y 19'01		evening set	10568 Feb 22 20:30		
asc. node	10567 Mar 11 10:05	5°Υ53'36	0.65000 177	asc. node	10568 Feb 26 07:20	16° ¥ 47'14	0.65065.433
min. Earth dist.	10567 Mar 15 10:44	1° Y 14'53	0.67999 AU	min. Earth dist.	10568 Feb 27 02:05	15° ¥ 50'33	0.67065 AU
	10567 Mar 16 09:24	30° ₹		inferior conj	10568 Feb 28 15:51	13° ¥ 52'54	0°45'29
inferior conj	10567 Mar 16 12:41	29°) 49′08	1°34'38	minimum elong	10568 Feb 28 14:44	13° ¥ 56′24	0°45'14
minimum elong	10567 Mar 16 10:45	29° ¥ 55'33	1°34'00	morning rise	10568 Mar 05 09:37	8° ₩ 05'03	
morning rise	10567 Mar 21 23:07	23° ¥ 51'49		direct	10568 Mar 08 14:49	7° ∺ 06'04	
direct	10567 Mar 25 15:35	22°) 33′45		morning max el	10568 Mar 15 07:15	10°) 43′02	18°45'23
morning max el	10567 Apr 01 22:31	26°) 36′41	19°38'09		10568 Mar 29 10:06	0 ° Υ	
•	10567 Apr 05 00:29	0 ° Υ		desc. node	10568 Mar 31 02:13	2° Y 35'02	
desc. node	10567 Apr 14 05:27	12° Ƴ 31'52		morning set	10568 Apr 06 02:02	11° Υ 55'19	
greatest brilliancy	10567 Apr 14 15:40	13° Y 09'16	-0.6m	3 - 3 - 1	10568 Apr 17 15:47	0°8	
J. IIII OIIII G	10567 Apr 25 19:50	0°8	* · *	max. Earth dist.	10568 Apr 21 03:46	5° 8 28'26	1.45527 AU
morning set	10567 Apr 27 15:09	2° 8 46'19		max. Darui dist.	10000 Apr 21 00.40	5 02020	1.73321 AU
•	-		1 44702 411	aumoni	10560 4 22 10 05	70 4 2711 0	2004100
max. Earth dist.	10567 May 09 10:02	21° 8 09'04	1.44702 AU	superior conj	10568 Apr 22 10:05	7° 8 27'10	
	1056575	2001 32	201210	minimum elong	10568 Apr 22 03:16	7° 8 00'28	Z-04'04
superior conj	10567 May 13 23:03	28° 8 23'42			10568 May 06 15:31	0°II	
minimum elong	10567 May 13 23:34	28° 8 25'46	2°13'27	evening rise	10568 May 07 17:48	1° Ⅱ 45'30	
	10567 May 14 22:58	$0^{\circ}\Pi$		greatest brilliancy	10568 May 14 09:26	12° Ⅱ 26'34	-0.9m
evening rise	10567 May 27 17:37	21° Ⅱ 06′07		asc. node	10568 May 24 05:22	27° Ⅱ 19'56	
	•				•		
	10567 Jun 02 00:32	0ංම			10568 May 26 07:13	0ಂತಾ	
asc. node	•			evening max el	•	0°ତ 2°ତ31'44	18°37'34

retrograde	10568 Jun 04 02:48	6° © 05'31		superior conj	10569 Apr 01 17:04	16° Y 27'15	-1°35'56
evening set	10568 Jun 07 08:15	5° 5 06'21		minimum elong	10569 Apr 01 07:36	15° Y 50′06	1°35'04
	10568 Jun 12 14:15	30° ₹Ⅱ		max. Earth dist.	10569 Apr 03 23:55	20° Y ′02'19	1.45607 AU
inferior conj	10568 Jun 13 00:05	29° Ⅱ 30′06	3°08'43		10569 Apr 10 09:09	0°B	
minimum elong	10568 Jun 13 01:29	29° Ⅲ 25'52	3°08'01	evening rise	10569 Apr 17 19:38	11° 8 33'29	
min. Earth dist.	10568 Jun 14 23:58	27° Ⅱ 04'30	0.65350 AU		10569 Apr 29 19:08	Π $^{\circ}0$	
morning rise	10568 Jun 18 17:53	23° Ⅱ 10′20		greatest brilliancy	10569 Apr 29 23:23	0° Ⅱ 16′00	-0.7m
direct	10568 Jun 25 06:10	20° Ⅲ 26′50		asc. node	10569 May 11 02:31	15° Ⅱ 20'55	
desc. node	10568 Jun 27 02:21	20° Ⅲ 38′25		evening max el	10569 May 11 22:15	16° Ⅱ 12'26	19°20'11
morning max el	10568 Jul 08 14:36	28° Ⅱ 19'44	27°01'34	retrograde	10569 May 18 23:47	20° Ⅱ 11'10	
	10568 Jul 10 04:58	0ංම		evening set	10569 May 22 13:37	18° Ⅱ 56'31	
	10568 Jul 31 20:03	$0^{\circ}\Omega$		inferior conj	10569 May 27 23:42	13° Ⅱ 05'15	3°17'45
morning set	10568 Aug 13 06:25	22° Ω 06'45		minimum elong	10569 May 27 23:53	13° Ⅱ 04'36	3°17'16
	10568 Aug 17 06:26	0° m)		min. Earth dist.	10569 May 29 08:32	11° Ⅱ 18′01	0.66853 AU
max. Earth dist.	10568 Aug 17 14:25	0° Mp 40'21	1.33771 AU	morning rise	10569 Jun 02 09:44	6° Ⅱ 44'27	
asc. node	10568 Aug 20 05:06	6° mp 01'47		direct	10569 Jun 08 12:51	4° Ⅱ 03'04	
	C	•		desc. node	10569 Jun 13 23:24	5° ∏ 44'28	
superior conj	10568 Aug 21 18:33	9° mp 17'29	0°15'21	morning max el	10569 Jun 21 01:14	11° II 32'13	25°52'27
minimum elong	10568 Aug 21 17:46	9° m) 13'22	0°14'57	Ü	10569 Jul 05 19:06	0ം ഇ	
behind sun begin	10568 Aug 21 15:42	9° mp 02'28			10569 Jul 24 11:36	$\Omega^{\circ}\Omega$	
behind sun end	10568 Aug 21 19:51	9° m)24'17		morning set	10569 Jul 27 02:36	4°Ω44'57	
evening rise	10568 Aug 29 01:09	24° m) 44'25		max. Earth dist.	10569 Jul 30 21:10	11° Ω 49'46	1.35527 AU
0.108	10568 Aug 31 13:50	0∘ ಹ					
evening max el	10568 Sep 18 09:06	28° ₽ 04'48	21°42'10	superior conj	10569 Aug 05 12:31	22° Ω 56'47	-0°15'11
Č	10568 Sep 20 12:05	0° M .		minimum elong	10569 Aug 05 13:26	23° Ω 01′26	
desc. node	10568 Sep 23 00:18	1° M 49'09		behind sun begin	10569 Aug 05 11:35	22° Ω 52'03	
retrograde	10568 Sep 30 18:41	4°ML14'37		behind sun end	10569 Aug 05 15:18	23° Ω 10'50	
evening set	10568 Oct 03 14:49	3°M56'23		asc. node	10569 Aug 07 01:56	26° Ω 07'04	
inferior conj	10568 Oct 12 15:32	29° ₽ 59'20	-5°10'36		10569 Aug 08 23:17	0° m)	
minimum elong	10568 Oct 12 07:10	0°ML11'02	5°08'48	evening rise	10569 Aug 13 08:42	9° m 04'44	
min. Earth dist.	10568 Oct 12 11:41	0°MJ04'44	0.54657 AU	C	10569 Aug 24 14:05	0∘ ⊽	
	10568 Oct 12 15:04	30° Ŗ Ω		evening max el	10569 Aug 31 10:51	8° ≏ 48'33	20°17'51
morning rise	10568 Oct 21 00:40	26° £ 11'14		desc. node	10569 Sep 09 21:35	14° ≏ 06'42	
direct	10568 Oct 24 15:54	25° - 42′28		retrograde	10569 Sep 11 07:22	14° ≙ 11'57	
	10568 Nov 04 05:01	0°M		evening set	10569 Sep 13 07:21	14° ≙ 01'46	
morning max el	10568 Nov 05 23:56	1°M33'38	22°03'47	inferior conj	10569 Sep 22 09:09	10° ≏ 03'57	-3°42'49
asc. node	10568 Nov 16 05:38	14°M43'50		minimum elong	10569 Sep 21 23:47	10° ≏ 17'44	3°39'45
	10568 Nov 24 12:28	0° ∡ ¹		min. Earth dist.	10569 Sep 23 20:26	9° ₽ 12'03	0.54843 AU
morning set	10568 Nov 27 06:44	5° ∡ ¹42'51		morning rise	10569 Sep 30 15:27	5° ≙ 58'09	
				direct	10569 Oct 05 01:14	5° ≙ 16'17	
superior conj	10568 Dec 04 09:16	20° ∡ ¹48'50	1°36'29	morning max el	10569 Oct 18 12:54	11° ≏ 50'16	23°50'17
minimum elong	10568 Dec 04 10:30	20° ₹ ′55′15	1°36'56		10569 Nov 01 04:40	0° M	
max. Earth dist.	10568 Dec 08 06:18		1.34420 AU	asc. node	10569 Nov 03 02:32	3°M20'30	
	10568 Dec 08 19:50	0°ಕ		morning set	10569 Nov 11 18:27	20°M31'01	
evening rise	10568 Dec 12 15:09	7° る 31'01			10569 Nov 16 03:36	0° ∡ ¹	
desc. node	10568 Dec 19 22:34	20°る54'28					
	10568 Dec 25 09:15	0° ≈		superior conj	10569 Nov 18 15:39	5° ₹ 26'57	1°39'51
evening max el	10569 Jan 16 15:43	29°≈18'51	26°55'42	minimum elong	10569 Nov 18 15:40	5° ₹ 27'03	1°40'19
	10569 Jan 17 09:06	0° ₩		max. Earth dist.	10569 Nov 21 03:54	10° ₹ 51'02	1.32981 AU
retrograde	10569 Jan 29 21:38	6° ¥ 40′26		evening rise	10569 Nov 26 05:02	21° ₹ 19'06	
evening set	10569 Feb 05 11:29	4° ₩ 06'33			10569 Nov 30 16:08	0°る	
min. Earth dist.	10569 Feb 09 11:23	0° ∺ 11′27	0.65748 AU	desc. node	10569 Dec 06 19:36	11° る 00'03	
	10569 Feb 09 15:26	30°R≈	0010110		10569 Dec 19 06:38	0°≈	2702 (122
inferior conj	10569 Feb 11 13:02	27°≈48'32		evening max el	10569 Dec 30 04:14	12°≈40'57	27°26'23
minimum elong	10569 Feb 11 13:23	27°≈47'30	0°12'20	retrograde	10570 Jan 12 19:34	20°≈03'37	
transit middle	10569 Feb 11 13:23	27°≈47'30	0°12'20	evening set	10570 Jan 19 17:13	17°≈32'04	0.64000 ATT
transit begin	10569 Feb 11 11:29	27°≈52'59		min. Earth dist.	10570 Jan 23 12:30	14°≈08'52	
transit end	10569 Feb 11 15:17	27°≈42'02		inferior conj	10570 Jan 26 01:37	11°≈29'19	
asc. node	10569 Feb 12 04:34	27°≈03'57		minimum elong	10570 Jan 26 04:07	11°≈22'45	1°18'11
morning rise	10569 Feb 17 16:31	22°≈12'27		asc. node	10570 Jan 30 01:47	7°≈42'22	
direct	10569 Feb 20 11:53	21°≈29'29	10000115	morning rise	10570 Feb 01 16:57	6°≈07'41	
morning max el	10569 Feb 26 21:41	24°≈52'46	18°09'15	direct	10570 Feb 04 04:14	5°≈37'02	17050107
morning sat	10569 Mar 03 05:28	0° ₩		morning max el	10570 Feb 10 15:02	8°≈57'43 0°) €	17°50'06
morning set desc. node	10569 Mar 17 16:19 10569 Mar 17 23:00	22°\(\frac{1}{27}\)'49 22°\(\frac{1}{25}\)'54'50		morning set	10570 Feb 24 20:54 10570 Feb 27 10:45	0° X 4° X 22'04	
acsc. Hour	10569 Mar 17 23:00 10569 Mar 22 08:24	22° π 34'30 0° Υ		desc. node	10570 Feb 27 10:45 10570 Mar 04 19:44	13° H 25'43	
	10307 Iviai 22 00.24	v i		desc. Houc	105/0 Wiai 04 17.44	15 1/2343	

superior conj	10570 Mar 12 13:57	26°) 11′02		desc. node	10571 Feb 19 16:31	4°) €03'52	
minimum elong	10570 Mar 12 07:54	25°) (46'34	0°54'48		10551 5 1 01 10 10	70\/ 02I2.4	0012117
P. d. F.	10570 Mar 14 22:55	0°Υ 4° Ω 231100	1 44047 433	superior conj	10571 Feb 21 10:43	7° ¥ 03'24	
max. Earth dist.	10570 Mar 17 19:06	4° Υ 31'09	1.44947 AU	minimum elong	10571 Feb 21 09:28	6°) ₹58'05	0°12'51
evening rise	10570 Mar 28 08:06	20° Y 55'19		behind sun begin	10571 Feb 21 04:09	6°) (35'37	
. ,	10570 Apr 03 07:13	0°8	20010111	behind sun end	10571 Feb 21 14:46	7°) (20'31	1 42/22 433
evening max el	10570 Apr 25 01:15	29° 8 54'53	20°18'11	max. Earth dist.	10571 Feb 28 11:01	18°) €39'27	1.43633 AU
1	10570 Apr 25 03:17	0°Ⅱ 2°Ⅱ30'30		evening rise	10571 Mar 07 22:28	0° Υ 30'18 0° Υ	
asc. node	10570 Apr 27 23:43				10571 Mar 07 14:40		
retrograde	10570 May 02 22:30	4° ∏ 28'45			10571 Mar 27 21:55	0°8	21929926
evening set	10570 May 06 21:28	2° I I58'27		evening max el	10571 Apr 07 22:42		21°28'36
	10570 May 09 20:03	30°R8	2012142	asc. node	10571 Apr 14 20:55	18° 8 33'59	
inferior conj	10570 May 12 04:41	26° 8 53'55		retrograde	10571 Apr 16 20:50	18° 8 53'29	
minimum elong	10570 May 12 03:49	26° 8 56'52		evening set	10571 Apr 21 05:58	17° 8 07'41	2050122
min. Earth dist.	10570 May 12 23:19	25° 8 50'19	0.67906 AU	inferior conj	10571 Apr 26 12:45	10° 8 52'05	2°58'32
morning rise	10570 May 17 09:55	20° 8 35'19		minimum elong	10571 Apr 26 11:05	10°857'52	
direct	10570 May 23 01:12	18° 8 04'54		min. Earth dist.	10571 Apr 26 18:07	10° 8 33'23	0.68501 AU
desc. node	10570 May 31 20:23	22° 8 27'23	24927157	morning rise	10571 May 01 15:59	4° 8 37'44	
morning max el	10570 Jun 03 10:58	24° 8 55'19	24°27'36	direct	10571 May 06 18:08	2° 8 24'40 8° 8 24'57	22050102
	10570 Jun 08 01:00	0° ⊡ 0° ©		morning max el	10571 May 16 21:04		22°58'03
	10570 Jun 29 06:18			desc. node	10571 May 18 17:18	10° 8 21'29	
morning set	10570 Jul 09 04:35	16°531'15	1 27650 AII	. ,	10571 Jun 02 18:06	0°II	
max. Earth dist.	10570 Jul 12 19:40	22°558'03	1.37650 AU	morning set	10571 Jun 20 07:08	27° Ⅱ 12'06 0° ©	
	10570 Jul 16 15:17	0 $^{\circ}\Omega$		may Earth dist	10571 Jun 21 23:23 10571 Jun 24 16:25	4° © 36'06	1.39943 AU
aumariar aani	10570 Jul. 10 10:17	60 0 01141	0040100	max. Earth dist.	103/1 Juli 24 10.23	4 93000	1.39943 AU
superior conj	10570 Jul 19 19:17	6° Ω 01'41 6° Ω 16'57			10571 I1 02 10.50	100@22140	1921104
minimum elong	10570 Jul 19 22:27 10570 Jul 24 22:49	16°Ω08'16	0-4802	superior conj	10571 Jul 02 10:50 10571 Jul 02 16:16	18° © 22'40 18° © 47'33	1°20'48
asc. node	10570 Jul 24 22:49 10570 Jul 28 10:46	23°Ω06'40		minimum elong	10571 Jul 02 16:16 10571 Jul 08 16:02	18 94/33 0°Ω	1 2048
evening rise				aca mada		6° Ω 01'11	
avanina may al	10570 Jul 31 22:56	0° Т р 20° Тр 19'14	10012150	asc. node	10571 Jul 11 19:43 10571 Jul 12 04:16	6° Ω 41'59	
evening max el retrograde	10570 Aug 14 02:25 10570 Aug 23 06:44	20 m/1914 24° m/53'06	19 13 30	evening rise	10571 Jul 12 04.16 10571 Jul 25 22:18	0°M)	
evening set	•	24° my 42'49		evening max el	10571 Jul 28 05:13	2°Mg 33'29	18°30'59
desc. node	10570 Aug 25 03:01 10570 Aug 27 18:51	23° Mp 54'44		retrograde	10571 Aug 05 00:15	6° M) 27'38	16 30 39
inferior conj	10570 Aug 27 18:31 10570 Sep 02 16:05	20° Tp 32'34	1040'50	evening set	10571 Aug 05 00:15	6° M) 12'07	
minimum elong	10570 Sep 02 10:05 10570 Sep 02 11:14	20° my 40'39		inferior conj	10571 Aug 07 01:42 10571 Aug 14 19:46	1° Mg 42'20	0.003,48
min. Earth dist.	10570 Sep 05 09:05	18° Mp 44'31	0.55944 AU	minimum elong	10571 Aug 14 19:39	1° Mg 42'34	0°03'03
morning rise	10570 Sep 10 16:35	15° m 52'49	0.55744 AC	transit middle	10571 Aug 14 19:39	1° Mg 42'34	0°03'03
direct	10570 Sep 15 10:53 10570 Sep 15 22:00	14° m 49'59		transit begin	10571 Aug 14 16:07	1°Mp49'26	0 03 03
morning max el	10570 Sep 30 00:48	22° My 00'04	25°33'32	transit end	10571 Aug 14 10:07	1°m/35'41	
morning max ci	10570 Oct 07 02:04	ე∘ <u>ი</u>	23 33 32	desc. node	10571 Aug 14 25:10 10571 Aug 14 16:07	1°M)49'28	
asc. node	10570 Oct 20 23:24	22° ≏ 28'57		dese. Hode	10571 Aug 17 00:04	30°RΩ	
asc. node	10570 Oct 20 23:24 10570 Oct 24 17:50	0°M		min. Earth dist.	10571 Aug 17 00:04 10571 Aug 18 02:57		0.57758 AU
morning set	10570 Oct 27 05:55	5°M15'52		morning rise	10571 Aug 10 02:57	26° Ω 25'41	0.57750710
morning set	10370 000 27 03.33	3 IIU1332		direct	10571 Aug 28 09:21	24° Ω 55'04	
superior conj	10570 Nov 03 01:42	20°M13'33	1°37'02	direct	10571 Sep 08 22:15	0°m)	
minimum elong	10570 Nov 03 00:40	20°M07'48		morning max el	10571 Sep 00 22:13	2° m) 30'56	26°56'13
max. Earth dist.	10570 Nov 04 08:26		1.32006 AU	morning max or	10571 Oct 01 11:52	ე∘ ი	_0 0010
man. Darm dist.	10570 Nov 07 13:13	0° ⊼	1.52000110	asc. node	10571 Oct 07 20:13	12° ⊆ 00'01	
evening rise	10570 Nov 10 03:51	5° х 30′27		morning set	10571 Oct 11 15:25	19° £ 51'33	
e vennig rise	10570 Nov 23 06:34	0°る		morning sec	10571 Oct 16 07:10	0° ™	
desc. node	10570 Nov 23 16:41	0° る 41'37					
evening max el	10570 Dec 12 13:55	25° පි 32'14	27°27'33	superior conj	10571 Oct 18 13:20	5°M01'10	1°28'28
<i>3</i>	10570 Dec 18 03:37	0° ≈		minimum elong	10571 Oct 18 11:31	4° M 51'02	
retrograde	10570 Dec 26 10:19	2° ≈ 49'46		max. Earth dist.	10571 Oct 18 17:04		1.31512 AU
evening set	10571 Jan 02 10:49	0° ≈ 29'20		evening rise	10571 Oct 25 08:55	19°M56'43	
<i>5</i>	10571 Jan 03 03:52	30°R₹		<i>5</i>	10571 Oct 30 06:52	0° ∡ 7	
min. Earth dist.	10571 Jan 06 03:56		0.62153 AU	desc. node	10571 Nov 10 13:48	19° х 48'37	
inferior conj	10571 Jan 09 02:39	24° ප් 48'17			10571 Nov 17 20:02	0°る	
minimum elong	10571 Jan 09 07:46	24° ප 36'21		evening max el	10571 Nov 24 18:14	。39'55	26°55'03
morning rise	10571 Jan 16 07:14	19° ට 43'53		retrograde	10571 Dec 08 16:28	14° る 49'14	* =
asc. node	10571 Jan 16 22:56	19° ට 32'54		evening set	10571 Dec 15 12:27	12° る 49'38	
direct	10571 Jan 18 12:42	19° ට 21'47		min. Earth dist.	10571 Dec 19 08:42		0.60057 AU
morning max el	10571 Jan 25 08:09	22° る 49'31	17°48'35	inferior conj	10571 Dec 22 12:41	7° る 35'43	
<i>5</i> 22	10571 Jan 30 23:08	0°≈		minimum elong	10571 Dec 22 20:07	7° る 20'31	
morning set	10571 Feb 10 03:42	17° ≈ 20′29		morning rise	10571 Dec 30 06:26	2° る 51'34	
<i>5 c</i>		/		<i>U</i>			
	10571 Feb 17 07:54	0°) €		direct	10572 Jan 01 09:32	2° る 34'19	

morning max el	10573 Dec 03 07:23 10573 Dec 04 22:21	0°⊀ 1°⊀25'25	19°44'31	direct morning max el	10574 Nov 05 15:15 10574 Nov 17 03:40	7°M20'12 12°M46'25	21°07'24
asc. node morning set	10573 Dec 07 14:08 10573 Dec 22 13:08	4° 尽 16'57 29° 尽 50'37		asc. node	10574 Nov 24 11:06 10574 Nov 29 11:54	21°M41′08 0°⊀	
	10573 Dec 22 15:00	0°⋜		morning set	10574 Dec 06 21:44	14° ∡ ³34′02	
superior conj minimum elong	10573 Dec 30 09:44 10573 Dec 30 12:34	15° ප් 41'58 15° ප් 55'58	1°17'09 1°17'21	superior conj minimum elong	10574 Dec 14 05:23 10574 Dec 14 07:16	29° メ 52'13 0° る 02'00	1°31'30 1°31'53
max. Earth dist.	10574 Jan 05 12:45	27° る 28'04	1.37460 AU		10574 Dec 14 06:53	0°ਰ	
	10574 Jan 06 21:43	0° ≈		max. Earth dist.	10574 Dec 18 22:11	9° ට 22'18	1.35433 AU
evening rise	10574 Jan 09 06:04	4° ≈ 14'16		evening rise	10574 Dec 22 23:23	17° る 09'43	
desc. node	10574 Jan 10 06:58	6° ≈ 04'25		desc. node	10574 Dec 28 03:54	26° る 33'45	
	10574 Jan 25 02:18	0° ∀			10574 Dec 30 03:42	0° ≈	
evening max el	10574 Feb 13 19:07	25°) €02'06	25°22'59		10575 Jan 19 10:50	0°)	
	10574 Feb 19 20:36	0° Y		evening max el	10575 Jan 27 08:32	8°) 48′46	26°27'01
retrograde	10574 Feb 25 23:11	2° Y ′04'08		retrograde	10575 Feb 09 07:01	16° 米 06'54	
	10574 Mar 03 09:11	30° Ŗ ₩		evening set	10575 Feb 15 14:50	13°) 34′42	
evening set	10574 Mar 03 19:36	29°) 38′50		min. Earth dist.	10575 Feb 19 17:49	9° ∺ 20'02	0.66549 AU
asc. node	10574 Mar 05 12:38	28°) €00′29		asc. node	10575 Feb 20 09:53	8° ¥ 31′50	
min. Earth dist.	10574 Mar 08 04:43	24°) (49'49	0.67650 AU	inferior conj	10575 Feb 21 12:42	7°) 10′27	0°21'51
inferior conj	10574 Mar 09 11:47	23°) €09'28	1°14'55	minimum elong	10575 Feb 21 12:07	7°) 12'13	0°21'52
minimum elong	10574 Mar 09 10:07	23°) (14′51	1°14'24	morning rise	10575 Feb 27 10:20	1°) €27'19	
morning rise direct	10574 Mar 15 01:04	17° 米 16′11 16° 米 06′45		direct	10575 Mar 02 11:02	0°) 35'44 4°) 05'47	18°27'53
	10574 Mar 18 12:31 10574 Mar 25 12:24	16° X 06'45 19° X 57'02	19°13'46	morning max el desc. node	10575 Mar 08 23:53	4°★05'47 28°★32'12	18°2/'53
morning max el	10574 Mai 23 12.24 10574 Apr 02 14:45	19 χ 3/02 0° Υ	19 13 40	desc. node	10575 Mar 26 04:30 10575 Mar 27 02:42	28 χ 32 12 0° Υ	
greatest brilliancy	10574 Apr 02 14.45 10574 Apr 07 11:16	0 1 7° Υ 04'53	-0.7m	morning set	10575 Mar 29 08:44	3° Υ 33'56	
desc. node	10574 Apr 07 11:10	8° Υ 21'32	-0.7111	morning set	103/3 Wai 29 08.44	3 13330	
morning set	10574 Apr 18 11:12	23° Y ′52'23		superior conj	10575 Apr 14 06:32	28° Ƴ 35'01	-1°54'15
morning sec	10574 Apr 22 10:13	0°8		minimum elong	10575 Apr 13 21:43	28° Υ '00'34	
max. Earth dist.	10574 May 01 18:12	_	1.45137 AU	max. Earth dist.	10575 Apr 14 12:41	28° Υ 59'04	1.45651 AU
	,				10575 Apr 15 04:17	0°8	
superior conj	10574 May 04 23:30	19° 8 39'08	-2°11'47	evening rise	10575 Apr 30 01:17	23° 8 21'16	
minimum elong	10574 May 04 20:48	19° 8 28'25	2°12'07	C	10575 May 04 06:10	$\Pi^{\circ}0$	
	10574 May 11 10:43	Π $^{\circ}$ 0		greatest brilliancy	10575 May 09 09:32	8° Ⅱ 04'30	-0.8m
evening rise	10574 May 19 11:16	13° Ⅱ 06'32		asc. node	10575 May 19 07:52	22° II 25'26	
	10574 May 29 19:37	0 \circ \odot		evening max el	10575 May 22 04:55	25° Ⅱ 40'42	18°53'46
asc. node	10574 Jun 01 10:45	4° 5 01'06		retrograde	10575 May 28 22:23	29° Ⅱ 23'46	
evening max el	10574 Jun 07 18:05	12° © 03'07	18°20'40	evening set	10575 Jun 01 07:16	28° Ⅱ 18'15	
retrograde	10574 Jun 14 03:41	15° © 28'37		inferior conj	10575 Jun 06 20:17	22° Ⅱ 35'40	3°14'18
evening set	10574 Jun 17 04:24	14° © 38'12		minimum elong	10575 Jun 06 21:10	22° Ⅱ 32'54	3°13'43
inferior conj	10574 Jun 23 01:05	9° © 11'13	2°56'24	min. Earth dist.	10575 Jun 08 13:50	20° Ⅱ 25'02	0.66039 AU
minimum elong	10574 Jun 23 03:06	9°505'20	2°55'32	morning rise	10575 Jun 12 10:24	16° Ⅱ 14'51	
min. Earth dist.	10574 Jun 25 09:37	6°527'53	0.64295 AU	direct	10575 Jun 18 19:17	13° Ⅱ 30′39	
morning rise	10574 Jun 29 00:34	2° © 53'50 0° © 14'15		desc. node	10575 Jun 22 04:48	14° Ⅱ 10'18 21° Ⅱ 16'04	26°34'40
desc. node direct	10574 Jul 05 07:42 10574 Jul 05 16:03	0°9513'51		morning max el	10575 Jul 01 20:06 10575 Jul 09 09:43	21 ப 16 04 0° ©	20 34 40
morning max el	10574 Jul 19 09:23	8°9514'45	27°30'32		10575 Jul 29 10:09	0° U	
morning max or	10574 Aug 05 05:41	0°Ω	27 30 32	morning set	10575 Aug 06 17:45	14° Ω 56'07	
	10574 Aug 22 14:02	0° m)		max. Earth dist.	10575 Aug 10 19:11	22°Ω47'10	1.34453 AU
morning set	10574 Aug 23 13:14	1° m 53'31			10575 Aug 14 09:06	0° m)	
asc. node	10574 Aug 28 10:38	11° m)49'04		asc. node	10575 Aug 15 07:27	1° m/55'00	
max. Earth dist.	10574 Aug 28 06:49	11° m ,29'10	1.32967 AU		Č	•	
				superior conj	10575 Aug 15 14:21	2° m 30'41	0°02'50
superior conj	10574 Aug 31 15:26	18° m 35'08	0°31'14	minimum elong	10575 Aug 15 14:13	2° m 29'57	0°02'31
minimum elong	10574 Aug 31 13:58	18° m 27'19	0°30'47	behind sun begin	10575 Aug 15 08:26	2° Mp 00'04	
	10574 Sep 05 22:26	0∘ ⊽		behind sun end	10575 Aug 15 19:59	2° Mp 59'52	
evening rise	10574 Sep 07 16:32	3° ≏ 45'34		evening rise	10575 Aug 23 02:04	18° m 13'04	
	10574 Sep 21 20:32	0°M			10575 Aug 28 22:35	0∘ ত	
evening max el	10574 Sep 29 14:23	9° ™ 31'55	22°37'45	evening max el	10575 Sep 11 09:00	19° ≙ 54'55	21°04'14
desc. node	10574 Oct 01 05:31	11°M01'51		desc. node	10575 Sep 18 02:49	24° ≏ 42'07	
retrograde	10574 Oct 12 16:18	16°M02'46		retrograde	10575 Sep 23 04:07	25° £ 46'00	
evening set	10574 Oct 16 06:45	15°M34'18	0.540(0.411	evening set	10575 Sep 25 13:18	25° £ 32'39	1020144
min. Earth dist.	10574 Oct 23 22:07	12°M08'40	0.54968 AU	inferior conj	10575 Oct 04 16:30	21° £ 37'20	
inferior conj	10574 Oct 25 00:16	11°M31'29		minimum elong	10575 Oct 04 06:44	21° £ 51'07	
minimum elong morning rise	10574 Oct 24 19:46 10574 Nov 02 10:30	11°M37'53 7°M43'35	3 31 20	min. Earth dist. morning rise	10575 Oct 05 05:57 10575 Oct 13 00:31	21° ♀ 18'19 17° ♀ 43'57	0.54614 AU
morning 1185	10577 INUV UZ 10.30	/ 1164333		morning 1150	10313 001 13 00.31	1/==433/	

dieset (1975 Oct 19 29.3) Γ M25 M17 29.30								
10075 Nov 1 1825 10075	direct	10575 Oct 16 23:33	17° ≏ 10'13			10576 Sep 16 12:53	30°R, Mp	
Section 1975 No. 1 1972 1975 No. 1 1972 1975 No. 1 1975	morning max el	10575 Oct 29 20:49	23° ჲ 20'48	22°48'13	morning rise	10576 Sep 21 18:36	27° Mp 29'06	
Mathematical		10575 Nov 04 18:25	0° M		direct	10576 Sep 26 13:01	26° ₩ 39'09	
March 1975 Nov 2 1608	asc. node	10575 Nov 11 08:02	9°M55'02			10576 Oct 06 01:44	0∘ ত	
March 1975 Nov 2 1608	morning set	10575 Nov 21 08:50	29°ML21'57		morning max el	10576 Oct 10 08:05	3° ₽ 29'00	24°35'38
Segueine con 1075 Now 26 828 14" 22" 13" 13" 10"					•			
		103/3 1101 21 10.01	V /		use. Houe			
minimal elog 1057 Nov 21 0629 12970 0 separior conji 6075 Nov 11 648 29°EL417 1°329 8 evening rice 10675 Nov 12 0223 0°8 minimal elog 10576 Nov 12 020 0°8°El417 1°398 8 evening rice 10675 Nov 12 0203 0°8 minimal elog 10576 Nov 12 0203 0°8°El174 1°398 8 dex. node 10675 Nov 12 0041 0°45 cevening rice 10576 Nov 12 0020 0°8°El174 1°391 8 2°192 13 2°182 25 2°182 25 1°257 14 0°87 Nov 12 000 1°270 14 1°		10575 Nov. 20, 00.20	1.49.70004	1020141				
max path dist 1957 Bore 2015 1978 Bore 3022 0°F8 1978 Bore 302 0°F8 1978 Bore 302 20°F8 1978 Bore 30 0°F8 1978 Bore 30 1878 Bore 30 1878 Bore 30 0°F8 1978 Bore 30 1878 Bore 30 0°F8 1978 Bore 30 1878 Bore 30 0°F8 0°F8 20°F8 20°					morning set	105/6 NOV 04 20:39	14-1160849	
Personnegines 1957 Nove 105 2233 0°F	•							
Seeming rise 10575 Dec 10 06-48 0"64125 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	max. Earth dist.	10575 Dec 01 15:08		1.33759 AU				
		10575 Dec 05 22:23			minimum elong	10576 Nov 11 16:21	29° ™ 01'47	1°39'48
1975 1975	evening rise	10575 Dec 06 06:48	0° る 41'25			10576 Nov 12 02:59	0° ∡ 7	
Second 10576 Jun 0 2 1.38 22*862346 27*1158 desc. node 10576 Nov 37 00.29 07*5 10576 Jun 1 0 2.11	desc. node	10575 Dec 15 00:55	16° る 49'44		max. Earth dist.	10576 Nov 13 16:06	3° ∡ ¹21'52	1.32513 AU
evening axed chroning maxed 10576 Jan 20 221 sts 22°82346 22°1158 dec. mole 10576 Jan 20 0214 22°82170 certing sted 10576 Jan 20 0314 22°82170 certing sted 10576 Jan 20 0314 22°82170 certing sted 10576 Jan 12 0308 07°82712 certing sted 10577 Jan 12 0308 07°82712 certing sted 10576 Jan 12 0308 certing sted 10576 Jan 12 0308 certing sted 07°82712 certing sted		10575 Dec 23 04:13	0° ≈		evening rise	10576 Nov 19 00:49	14° ∡ °40′01	
Content 10.75 cm 20.004 20.004 20.005	evening max el	10576 Jan 09 21:58	22° ≈≈ 23'46	27°11'58	Č	10576 Nov 27 00:29	0°중	
Peening set 10576 Fam 30 2021 27%=1399 10576 Dec 17 0.339 0.5% 17 0.349 17 0.5% 0.5%	•				desc node			
min. Eurth dist. 1975 Feb * 03 00.03 23*82139 0.50504 N evening make 10575 Dec 20 03.8 5%21499 27°3049 inferior conj 10576 Feb * 05 07.45 21*980937 0°40711 revening asc 10577 Jan * 12 0.308 10*26 Feb 0°67 Jan * 12 0.308 10*26 Feb 0°67 Jan * 12 0.308 10*26 Feb 0°70 Jan * 12 0.308 0°82 Jan * 12 0.308 0°84 Jan * 12 0	•				dese. Hode			
Indication coord	•			0.65004.411				27020140
minimum elong 10576 Feb 07 077 107 079 107 079 108 079 107 079 079 107 079 079 107 079 079 107 079 079 107 079 079 107 079 079 107 079 079 107 079 079 107 079 079 107 079 079 079 107 079 079 079 079 107 079 079 079 079 079 079 079 079 079 0					Č			27°30′49
Second 10576 Feb 17 07.07 18%-5015 min. Earth dist. 10577 Jan 15 21:14 7%-81015 0.63300 AU morning rise 10576 Feb 11 4 06.29 14%-5245 min. min. mellong 10577 Jan 18 18:15 4%-82422 14%13 10576 Feb 12 0 10.50 18%-81554 17%-8551 morning max 10576 Feb 12 0 10.50 18%-81554 17%-8551 morning max 10576 Feb 12 0 10.50 18%-81554 17%-8551 morning max 10576 Feb 12 0 10.50 18%-81554 17%-8551 morning max 10576 Mar 20 11:24 18%-4565 morning rise 10577 Jan 27 11:30 29%-51823 morning set 10576 Mar 12 0 11:4 18%-4565 morning max 10577 Jan 27 11:30 29%-51823 morning max 10576 Mar 12 0 11:4 18%-4565 morning max 10577 Jan 27 10:30 28%-5141 10%-8 morning max 10577 Jan 27 10:30 28%-5141 10%-8 morning max 10577 Jan 27 10:30 27 20.50 28%-5141 10%-8 morning max 10577 Jan 27 10:30 27 20.50 28%-5141 10%-8 morning max 10577 Jan 27 10:30 27 20.50 28%-5141 10%-8 morning max 10577 Jan 27 10:30 27 20.50 28%-5141 10%-8 morning max 10577 Jan 27 10:30 27 20.50 27 20.50 17 40.00	-				•			
morning rise 10576 Feb 1 14:51 15**a3000 16**a517 16**a517 18** 14:40 15**a518 16**a517 17**a518 16**a518	minimum elong	10576 Feb 05 07:45	20° ≈ 57'19	0°39'18	evening set	10577 Jan 12 03:08	10° ≈ 27'24	
direct 40767 Feb 14 06.29 14*862745 minimum elong 10577 Jan 18 18.15 4*862472 1°85414 2°955444 2°95644 2°95644 2°95644 2°95644 2°95644 2°96644 2°96644 2°96644 2°96644 2°96644 2°96741 2°97648 2°97648 2°97648 2°97648 2°97648 2°9748<	asc. node	10576 Feb 07 07:07	18° ≈ 50'15		min. Earth dist.	10577 Jan 15 21:14	7° ≈ 16′15	0.63300 AU
moming max el 10576 Feb 20 15.8 18*8 1	morning rise	10576 Feb 11 14:51	15° ≈ 30′00		inferior conj	10577 Jan 18 14:40	4° ≈ 33'19	-1°50'08
morning max el 10576 Feb 20 15.58 18 ≥ 18 17 ≥ 18 18 ≥ 18 18 ≥ 18 18 ≥ 18 18 ≥ 18 18 ≥ 18 18 ≥ 18 ≥	direct	10576 Feb 14 06:29	14° ≈ 52'45		minimum elong	10577 Jan 18 18:15	4° ≈ 24'22	1°48'13
morning set 10576 Feb 29 10.38 0°H 1275 1474 240 10577 Jan 24 10.35 30°8 10576 Jan 29 11.28 18°H 42°H 18°H 1	morning max el	10576 Feb 20 15:50	18° ≈ 13'54	17°58'51	_	10577 Jan 24 04:17	29°₹54'44	
moming set 10576 Mar 9 11-28 48*H3695 direct 10577 Jan 25 1.30 29*Gl823 desc. node 10576 Mar 12 01-14 88*H3695 direct 10577 Jan 27 20-06 28*Jar 10-24 10-2								
desc. node	morning set				morning rise		• -	
1957 May 18 2013 19°4 19'43 19'43 19'44 19'43 19'44	•				•			
Superior conj 10576 Mar 23 17.28 7°974818 -1°1943 10577 Feb 19 16.21 2°746718 10577 Feb 19 16.21 2°74578	desc. node				direct			
Superior conj 10576 Mar 23 17.28 7°P(4818 -1"1943 morning set 10577 Feb 21 08.19 6.24 7°P(4818 -1"1943 18.24 10577 Feb 21 08.19 0°P(4818 -1"1943 18.24 10577 Feb 22 12.15 0°P(4818 -1"1943 18.24 10577 Feb 22 12.15 0°P(4818 -1"1943 18.24 10577 Feb 22 12.15 0°P(4818 -1"1943 18.24 10577 Feb 26 21.58 0°P(4818 -1"1943 10.07 Feb 26 21.58 0		105/6 Mar 18 20:13	00.4,					
minimum elong 10576 Mar 27 08:37 7°°° 14'32 1°18'44 desc. node 10577 Feb 26 21:08:19 9°° H max. Earth dist. 10576 Mar 27 06:22*46 0°8'B 45419 AU desc. node 10577 Feb 26 21:08:19 9°° H3'123 evening rise 10576 Apr 06:22*46 0°8'B 30° Mary 10° 12° 12° 10° 12° 12° 10° 12° 12° 12° 10° 12° 12° 12° 12° 10° 12° 12° 12° 12° 12° 10° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12					•		2°≈14'01	17°47'10
max. Earth dist. 10576 Mar 27 08:34 13°V31'57 1.45419 AU desc. node 10577 Feb 26 21:58 9°X31'23 1.7°Y51'54 1.0°75' Apr 08 19-44 2°25'53' 1.7°Y51'54 1.0°75' Apr 08 19-44 2°25'53' 1.7°Y51'54 1.0°75' Apr 08 19-44 1.0°75' Apr 10 03:12 2°7¥56'09 1.4446' AU 1.0°75' Apr 10 03:12 1.2°Y1' 1.0°2 1.2°Y1'	superior conj	10576 Mar 23 17:28	7° Ƴ 48'18	-1°19'43	morning set	10577 Feb 19 16:21	27° ≈ 07'15	
evening rise 10576 Apr 08 19-44 2°-85 19-44 2°-85 19-45	minimum elong	10576 Mar 23 08:57	7° Ƴ 14'32	1°18'44		10577 Feb 21 08:19	0° ∀	
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evening rise	asc. node	•			iiiiiimum eiong			1 02 00
evening max el 10576 Aug 22 18:30 0° \(\Omega\) evening rise 10577 Jul 21 06:23 16° \(\Omega\) 17'20 evening max el 10576 Aug 23 16:43 0° \(\Omega\) 5° \(\Omega\) 59'00 evening max el 10577 Aug 06 13:23 12° \(\omega\) 46'37 18° 52'57 desc. node 10576 Sep 04 00:07 5° \(\Omega\) 55'04 retrograde 10576 Sep 04 16:30 5° \(\Omega\) 49'24 evening set 10577 Aug 15 00:11 16° \(\omega\) 50'10 evening set 10576 Sep 13 14:12 1° \(\Omega\) 47'39 -2° 55'56 desc. node 10577 Aug 21 21:22 14° \(\omega\) 45'51 minimum elong 10576 Sep 13 06:24 1° \(\Omega\) 59'39 2° 53'09 inferior conj 10577 Aug 25 05:23 12° \(\omega\) 31'34 -1° 02'14		-						
evening max el 10576 Aug 23 16:43 0°\$\Omega\sigma57'41 19°48'04 10577 Jul 28 12:59 0°\$\mathbb{m}\$ retrograde 10576 Sep 02 19:28 5°\$\Omega\sigma59'00 evening max el 10577 Aug 06 13:23 12°\$\mathbb{m}\$46'37 18°52'57 desc. node 10576 Sep 04 00:07 5°\$\Omega\sigma55'04 retrograde 10577 Aug 15 02:16 17°\$\mathbb{m}\$02'11 evening set 10576 Sep 04 16:30 5°\$\Omega\sigma49'24 evening set 10577 Aug 17 00:11 16°\$\mathbb{m}\$50'10 inferior conj 10576 Sep 13 14:12 1°\$\Omega\sigma47'39 -2°55'56 desc. node 10577 Aug 21 21:22 14°\$\mathbb{m}\$45'51 minimum elong 10576 Sep 13 06:24 1°\$\Omega\sigma59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12°\$\mathbb{m}\$3'34 -1°02'14	evening rise	-						
retrograde 10576 Sep 02 19:28 5°至59'00 evening max el 10577 Aug 06 13:23 12°取46'37 18°52'57 desc. node 10576 Sep 04 00:07 5°至55'04 retrograde 10577 Aug 15 02:16 17°取02'11 evening set 10576 Sep 04 16:30 5°至49'24 evening set 10577 Aug 17 00:11 16°取50'10 inferior conj 10576 Sep 13 14:12 1°至47'39 -2°55'56 desc. node 10577 Aug 21 21:22 14°取45'51 minimum elong 10576 Sep 13 06:24 1°至59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12°取31'34 -1°02'14		10576 Aug 22 18:30	0∘ ⊽		evening rise	10577 Jul 21 06:23	16° Ω 17′20	
desc. node 10576 Sep 04 00:07 5°至55'04 retrograde 10577 Aug 15 02:16 17°顶02'11 evening set 10576 Sep 04 16:30 5°至49'24 evening set 10577 Aug 17 00:11 16°顶50'10 inferior conj 10576 Sep 13 14:12 1°至47'39 -2°55'56 desc. node 10577 Aug 21 21:22 14°顶45'51 minimum elong 10576 Sep 13 06:24 1°至59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12°顶31'34 -1°02'14	evening max el	10576 Aug 23 16:43	0° ჲ 57'41	19°48'04		10577 Jul 28 12:59	0° ™	
desc. node 10576 Sep 04 00:07 5°至55'04 retrograde 10577 Aug 15 02:16 17°顶02'11 evening set 10576 Sep 04 16:30 5°至49'24 evening set 10577 Aug 17 00:11 16°顶50'10 inferior conj 10576 Sep 13 14:12 1°至47'39 -2°55'56 desc. node 10577 Aug 21 21:22 14°顶45'51 minimum elong 10576 Sep 13 06:24 1°至59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12°顶31'34 -1°02'14	retrograde	10576 Sep 02 19:28	5° ჲ 59'00		evening max el	10577 Aug 06 13:23	12° Mp 46'37	18°52'57
evening set 10576 Sep 04 16:30 5°\(\Omega\)49'24 evening set 10577 Aug 17 00:11 16°\(\omega\)50'10 inferior conj 10576 Sep 13 14:12 1°\(\Omega\)47'39 -2°55'56 desc. node 10577 Aug 21 21:22 14°\(\omega\)45'51 minimum elong 10576 Sep 13 06:24 1°\(\Omega\)59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12°\(\omega\)31'34 -1°02'14	•	-			•	•		
inferior conj 10576 Sep 13 14:12 1° Ω 47'39 -2°55'56 desc. node 10577 Aug 21 21:22 14° № 45'51 minimum elong 10576 Sep 13 06:24 1° Ω 59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12° № 31'34 -1°02'14		-			•	-		
minimum elong 10576 Sep 13 06:24 1° ⊆ 59'39 2°53'09 inferior conj 10577 Aug 25 05:23 12° ™ 31'34 -1°02'14	•	-		-2°55'56	-	=		
		-						1002114
mini. датиг цізт. 105/6 Sep 15 15:51 U ≥≤51/21 U.55210 AU minimum elong 105// Aug 25 U2:46 12 IQ36'15 1°01'24	•				•	=		
	min. Earth dist.	103/0 Sep 13 15:51	U- ≥≤ 31'21	0.55210 AU	minimum elong	105 / / Aug 25 02:46	12° III 36'15	1 01 24

min. Earth dist.	10577 Aug 28 06:11	10° Mp 22'33	0.56649 AU	desc. node	10578 Aug 08 18:35	22° Ω 19'53	
morning rise	10577 Sep 02 02:05	7° m 35′52		min. Earth dist.	10578 Aug 10 03:05	21° Ω 13'45	0.58661 AU
direct	10577 Sep 07 15:24	6° Mp 22'07		morning rise	10578 Aug 14 03:16	18° Ω 29'43	
morning max el	10577 Sep 21 21:29	13° m 43'43	26°12'19	direct	10578 Aug 20 08:22	16° Ω 46'30	
•	10577 Oct 04 18:32	0∘ ⊽		morning max el	10578 Sep 03 17:25	24° Ω 31'23	27°21'52
asc. node	10577 Oct 15 01:43	18° ≏ 04'17			10578 Sep 08 17:44	0° m)	
morning set	10577 Oct 20 07:28	28° Ω 49'46			10578 Sep 28 00:19	0∘ ত مس	
morning set		28 = 4940 0°M		aga mada	10578 Oct 01 22:32	0 = 7° £ 42'55	
	10577 Oct 20 20:35	0-116		asc. node			
				morning set	10578 Oct 04 15:39	13° ≏ 20'28	
superior conj	10577 Oct 27 03:43	13°M51'10	1°34'04			_	
minimum elong	10577 Oct 27 02:18	13°M43'19	1°34'19	superior conj	10578 Oct 11 15:30	28° ≏ 37'37	
max. Earth dist.	10577 Oct 27 22:55	15° ™ 37'36	1.31734 AU	minimum elong	10578 Oct 11 13:28	28° ≏ 26'16	1°23'10
evening rise	10577 Nov 03 02:33	28° ™ 57'37		max. Earth dist.	10578 Oct 11 08:13	27° ♀ 57'03	1.31440 AU
	10577 Nov 03 14:29	0° ∡ ¹			10578 Oct 12 06:18	0° M	
desc. node	10577 Nov 17 19:05	26° ∡ 14′06		evening rise	10578 Oct 18 09:36	13°M28'10	
	10577 Nov 20 04:57	0°る			10578 Oct 26 15:56	0° ∡ ¹	
evening max el	10577 Dec 04 17:27	18° る 08'25	27°17'57	desc. node	10578 Nov 04 16:16	15° ∡ '02'52	
retrograde	10577 Dec 18 14:34	25° る 22'21			10578 Nov 16 21:02	0°₹	
evening set	10577 Dec 25 14:27	23° る 09'21		evening max el	10578 Nov 16 18:24	29° ₹ 53'49	26°30'53
min. Earth dist.	10577 Dec 29 07:55	20°る22'03	0.61273 AU	retrograde	10578 Nov 30 16:50	7° る 00'40	20 30 33
	10578 Jan 01 09:45	20 3 22 03		•	10578 Dec 07 08:02	7 00040 5°る12'14	
inferior conj				evening set			0.50140.411
minimum elong	10578 Jan 01 15:57	17°る25'57	3°02'28	min. Earth dist.	10578 Dec 11 08:06	2° る 36'43	0.59149 AU
morning rise	10578 Jan 08 20:03	12° ठ 43'44		inferior conj	10578 Dec 14 12:18	0° ප 10'32	
direct	10578 Jan 11 00:09	12° る 24'03		minimum elong	10578 Dec 14 20:15	29° х 55′14	4°16'16
asc. node	10578 Jan 11 01:25	12° る 24'03			10578 Dec 14 17:46	30°₽ ⋌	
morning max el	10578 Jan 18 01:27	15° る 57'08	17°53'38	morning rise	10578 Dec 22 11:09	25° ∡ ³36′14	
	10578 Jan 27 20:49	0° ≈		direct	10578 Dec 24 14:28	25° ∡ ¹20′08	
morning set	10578 Feb 02 16:54	10° ≈ 26'51		asc. node	10578 Dec 28 22:30	26° ∡ ³30′11	
				morning max el	10579 Jan 01 12:17	29° ∡ 13'33	18°19'37
superior conj	10578 Feb 13 07:27	29° ≈ 22'38	0°03'36		10579 Jan 02 06:32	0°ರ	
minimum elong	10578 Feb 13 07:47	29° ≈ 24'07	0°03'52	morning set	10579 Jan 17 07:24	24° る 24'42	
behind sun begin	10578 Feb 12 23:41	28° ≈ 48'59		· ·	10579 Jan 20 05:51	0° ≈	
behind sun end	10578 Feb 13 15:54	29° ≈ 59'10					
desc. node	10578 Feb 13 18:43	0° ₩ 11'18		superior conj	10579 Jan 26 13:49	11° ≈ 49'36	0°38'28
desc. node	10578 Feb 13 16:06	0°) €		minimum elong	10579 Jan 26 16:24	11°≈01'28	0°38'30
max. Earth dist.	10578 Feb 13 10:00 10578 Feb 20 17:49	11° 米 53'31	1.42907 AU	desc. node	10579 Jan 31 15:32	20°≈53'20	0 38 30
		22°\(\frac{11}{33}\)31	1.42907 AU		10579 Jan 31 13:32 10579 Feb 03 03:17		1 40014 ATT
evening rise	10578 Feb 27 02:47			max. Earth dist.		25°≈11'15	1.40914 AU
	10578 Mar 04 04:43	0° Υ			10579 Feb 05 23:48	0°) {	
	10578 Mar 25 08:08	0° 8		evening rise	10579 Feb 07 17:00	2° ¥ 50′07	
evening max el	10578 Mar 31 07:06	6° 8 49'34	22°01'09		10579 Feb 25 12:20	0° Υ	
asc. node	10578 Apr 08 23:28	12° 8 20'25		evening max el	10579 Mar 13 22:32	20° Ƴ 35'46	23°21'07
retrograde	10578 Apr 09 16:44	12° 8 22'57		retrograde	10579 Mar 24 11:59	26° Ƴ 50'04	
evening set	10578 Apr 14 06:33	10° 8 30'28		asc. node	10579 Mar 26 20:42	26° Ƴ 23'21	
inferior conj	10578 Apr 19 13:45	4° 8 10'40	2°49'02	evening set	10579 Mar 29 13:15	24° Y 43'24	
minimum elong	10578 Apr 19 11:51	4° 8 17'18	2°48'23	inferior conj	10579 Apr 03 22:47	18° Ƴ 16'33	2°19'50
min. Earth dist.	10578 Apr 19 13:38	4° 8 11'07	0.68619 AU	minimum elong	10579 Apr 03 20:36	18° Ƴ 24'05	2°19'06
	10578 Apr 22 17:44	30° ŖƳ		min. Earth dist.	10579 Apr 03 10:28	18° Ƴ 58'59	0.68575 AU
morning rise	10578 Apr 24 17:01	27° Y ′58'40		morning rise	10579 Apr 09 03:54	12° Ƴ 10'33	
direct	10578 Apr 29 13:19	25° Y ′54'33		direct	10579 Apr 13 10:49	10° Y °27′56	
	10578 May 07 12:23	0°8		morning max el	10579 Apr 21 19:41	15° Υ 16'05	20°57'46
morning max el	10578 May 09 03:07	1° 8 32'24	22°20'27	desc. node	10579 Apr 29 16:25	24° Y '37'46	20 37 10
•	•	5° 8 34'39	22 20 21	desc. Hode	10579 May 03 14:36	0° 8	
desc. node	10578 May 12 19:35			. ,			
	10578 May 30 14:44	0°II		morning set	10579 May 22 04:09	27° 8 43'21	
morning set	10578 Jun 11 14:37	18° Ⅱ 42'24			10579 May 23 15:00	0°П	
max. Earth dist.	10578 Jun 16 17:29	27° Ⅱ 10′23	1.40903 AU	max. Earth dist.	10579 May 29 21:44	10°Щ02'30	1.42949 AU
	10578 Jun 18 09:29	0 \circ					
				superior conj	10579 Jun 05 22:26	21° Ⅱ 41'58	
superior conj	10578 Jun 24 12:24	10° 5 541'41	-1°34'08	minimum elong	10579 Jun 06 04:23	22° II 07'10	1°59'46
minimum elong	10578 Jun 24 18:32	11° 5 09'06	1°33'53		10579 Jun 10 18:25	0 \circ \odot	
evening rise	10578 Jul 04 19:08	29° © 38'33		evening rise	10579 Jun 17 17:29	12° © 18'26	
	10578 Jul 04 23:43	$0^{\circ}\Omega$		asc. node	10579 Jun 22 19:07	21° © 17'59	
asc. node	10578 Jul 05 22:07	1° Ω 44'49			10579 Jun 28 00:02	$0^{\circ}\Omega$	
evening max el	10578 Jul 20 19:42	25°Ω16'12	18°18'56	evening max el	10579 Jul 04 07:38	8° Ω 16′13	18°04'51
retrograde	10578 Jul 28 04:12	28° Ω 58'27		retrograde	10579 Jul 10 22:57	11° Ω 40'13	
evening set	10578 Jul 30 08:37	28° Ω 39'36		evening set	10579 Jul 13 11:18	11° Ω 10'54	
inferior conj	10578 Aug 06 18:27	24°Ω00'52	0°36'10	inferior conj	10579 Jul 20 03:44	6°Ω12'14	1°49'25
minimum elong	10578 Aug 06 18:27 10578 Aug 06 19:41	24 δ 00 32 23° Ω 58'19	0°35'21	minimum elong	10579 Jul 20 05:44 10579 Jul 20 06:27	6° Ω 05'41	1°48'08
mmmum etong	10370 Aug 00 19.41	43 06 30 19	0 33 41	minimum elong	10317 Jul 20 00.2/	0 660341	1 40 00

min. Earth dist.	10579 Jul 23 08:02	3° Ω 09'20	0.60926 AU	inferior conj	10580 Jul 02 05:21	18° © 58'21	2°38'01
morning rise	10579 Jul 26 22:54	0° Ω 15'24		minimum elong	10580 Jul 02 07:52	18° 9 51'26	2°36'57
desc. node	10579 Jul 26 15:49	0° Ω 27'17		min. Earth dist.	10580 Jul 04 22:02	16° © 02'37	0.63141 AU
	10579 Jul 27 08:31	30° Ŗ ூ		morning rise	10580 Jul 08 11:28	12° 5 46'13	
direct	10579 Aug 02 13:40	28° © 03'47		desc. node	10580 Jul 12 12:59	10° © 36'55	
	10579 Aug 09 04:34	$0^{\circ}\Omega$		direct	10580 Jul 15 04:39	10° © 13'45	
morning max el	10579 Aug 16 20:10	6° Ω 02'21	27°54'47	morning max el	10580 Jul 29 04:03	18° © 16'11	27°49'25
C	10579 Sep 03 20:47	0° m)		Č	10580 Aug 08 00:28	$0^{\circ}\Omega$	
morning set	10579 Sep 18 19:17	27° m/34'48			10580 Aug 26 17:50	0° m/	
asc. node	10579 Sep 18 19:20	27° m 35'06		morning set	10580 Sep 01 16:12	11° m)27'16	
	10579 Sep 19 23:06	0∘ <u>⊽</u>		asc. node	10580 Sep 04 16:10	17° m 36'07	
max. Earth dist.	10579 Sep 24 16:18	10° ჲ 09'52	1.31641 AU	max. Earth dist.	10580 Sep 06 19:27	22° m 06'41	1.32346 AU
	10550 0 00 10	120 0 1 711 0	100 (150		10500 0 00 10 11	0.50 m 4.40 1	00.45140
superior conj	10579 Sep 26 02:16	13° Ω 17'10	1°06'58	superior conj	10580 Sep 09 10:11	27° m/44'31	0°45'40
minimum elong	10579 Sep 26 00:02	13° Ω 04'47	1°06'41	minimum elong	10580 Sep 09 08:15	27° m/34'06	0°45'14
evening rise	10579 Oct 02 19:47	28° ഫ 04'53			10580 Sep 10 11:04	0° ⊽	
	10579 Oct 03 17:19	0°M		evening rise	10580 Sep 16 07:16	12° △ 42'39	
	10579 Oct 20 09:57	0° ∡ 7			10580 Sep 24 22:50	0°M	
desc. node	10579 Oct 22 13:29	2° ₹ 56'12		desc. node	10580 Oct 08 10:45	19° ™ 33'12	
evening max el	10579 Oct 29 11:18	10° ∡ ⁴47'49	25°12'58	evening max el	10580 Oct 09 22:25	21°M03'31	23°35'39
retrograde	10579 Nov 12 08:07	17° ∡ ¹46′04		retrograde	10580 Oct 23 10:24	27° M 47'35	
evening set	10579 Nov 18 03:04	16° ∡ ¹29'58		evening set	10580 Oct 27 21:46	27° M 04'02	
min. Earth dist.	10579 Nov 22 23:20	13° ∡ ⁴49'21	0.57153 AU	min. Earth dist.	10580 Nov 03 08:32	23°M59'54	0.55578 AU
inferior conj	10579 Nov 25 19:12	11° ∡ 756′09	-5°19'07	inferior conj	10580 Nov 05 05:52	22°M52'49	-5°45'51
minimum elong	10579 Nov 26 01:48	11° ∡ 745′06	5°17'33	minimum elong	10580 Nov 05 06:13	22°M52'17	5°45'27
morning rise	10579 Dec 04 02:50	7° ∡ ¹44'01		morning rise	10580 Nov 13 16:31	18° ™ 59'15	
direct	10579 Dec 06 11:02	7° ∡ ¹27'58		direct	10580 Nov 16 12:29	18° ™ 39'29	
morning max el	10579 Dec 15 13:56	11° ∡ 751'12	19°06'59	morning max el	10580 Nov 27 02:58	23°M40'36	20°17'09
asc. node	10579 Dec 15 19:32	12° х 04′51		asc. node	10580 Dec 01 16:32	28°M53'23	
	10579 Dec 27 18:43	აი			10580 Dec 02 12:05	0° ∡ ¹	
morning set	10580 Jan 01 07:22	8° る 47'08		morning set	10580 Dec 15 13:32	23° ∡ ¹24'53	
Ü				Z .	10580 Dec 18 18:18	0°₹	
superior conj	10580 Jan 09 14:10	25° පි 06'17	1°05'23				
minimum elong	10580 Jan 09 17:15	25° る 21'07	1°05'27	superior conj	10580 Dec 23 03:53	8° る 59'51	1°24'10
minimum ciong	10580 Jan 12 03:55	0°≈	1 03 27	minimum elong	10580 Dec 23 06:23	9°る12'24	1°24'27
max. Earth dist.	10580 Jan 16 09:32	7° ≈ 47'15	1.38718 AU	max. Earth dist.	10580 Dec 28 16:46	19° る 52'33	1.36566 AU
desc. node	10580 Jan 18 12:25	11°≈33'26	1.50710710	evening rise	10581 Jan 01 12:13	26°පි58'46	1.50500710
evening rise	10580 Jan 20 04:44	14°≈29'04		evening rise	10581 Jan 03 04:27	20°≈	
evening rise	10580 Jan 29 15:23	0°)		desc. node	10581 Jan 04 09:20	0 ≈ 2°≈07'49	
	10580 Feb 20 09:11	0°Υ		desc. node		2 ≈ 0749 0° ∺	
avanina may al		4° Υ 25'23	24°40'32	arranina marral	10581 Jan 22 01:46 10581 Feb 06 01:44	0 X 18° ¥ 14'58	25952114
evening max el	10580 Feb 24 12:17		24 40 32	evening max el			23 32 14
retrograde	10580 Mar 07 03:29	11° Υ 12'41		retrograde	10581 Feb 18 14:08	25°) €24'31	
evening set	10580 Mar 12 16:49	8° Υ 53'37		evening set	10581 Feb 24 15:35	22°) 55'52	
asc. node	10580 Mar 12 17:56	8° Υ 51'15	0.60104.411	asc. node	10581 Feb 27 15:11	19°) €54'47	0.67000 444
min. Earth dist.	10580 Mar 17 06:03	3° Y 44'21	0.68104 AU	min. Earth dist.	10581 Feb 28 22:03	18°) €21'35	0.67228 AU
inferior conj	10580 Mar 18 06:14	2° Y ′23'54	1°41'19	inferior conj	10581 Mar 02 10:06	16°) €28'14	0°53'33
minimum elong	10580 Mar 18 04:13	2° Y '30'37	1°40'40	minimum elong	10581 Mar 02 08:48	16°) 32′18	0°53'14
	10580 Mar 20 02:37	30°₽)		morning rise	10581 Mar 08 02:36	10°) (38′59	
morning rise	10580 Mar 23 15:46	26°) €25'23		direct	10581 Mar 11 09:25	9°) (37′21	
direct	10580 Mar 27 10:06	25°) €04'09		morning max el	10581 Mar 18 03:29	13° ¥ 17'12	18°52'16
morning max el	10580 Apr 03 19:45	29° ∺ 11'51	19°47'24		10581 Mar 30 15:33	0° Υ	
	10580 Apr 04 14:40	0° Υ		desc. node	10581 Apr 02 10:00	4° Υ 13'55	
desc. node	10580 Apr 15 13:14	14° Ƴ 13'59		morning set	10581 Apr 09 11:11	15° Y ′09'42	
greatest brilliancy	10580 Apr 16 17:55	15° Ƴ 58'17	-0.6m		10581 Apr 18 23:43	9° 8	
	10580 Apr 26 02:37	9° 8		max. Earth dist.	10581 Apr 24 02:43	8° 8 00'50	1.45451 AU
morning set	10580 Apr 30 03:23	6° 8 10'31					
max. Earth dist.	10580 May 11 09:25	23° 8 44'34	1.44523 AU	superior conj	10581 Apr 25 21:25	10° 8 48'22	-2°06'50
	10580 May 15 07:22	$\Pi^{\circ}0$		minimum elong	10581 Apr 25 15:35	10° 8 25'26	2°06'52
					10581 May 07 23:20	$\Pi^{\circ}0$	
superior conj	10580 May 16 08:16	1° ∏ 40′21	-2°12'35	evening rise	10581 May 11 00:27	4° ∏ 54'50	
minimum elong	10580 May 16 09:49	1° Ⅱ 46'38	2°13'01	asc. node	10581 May 26 13:15	29° Ⅱ 15′09	
evening rise	10580 May 29 20:37	24° Ⅱ 06′24			10581 May 27 02:20	0∘ ©	
-	10580 Jun 02 07:57	0°ಅ		evening max el	10581 May 31 10:11	5° © 10'25	18°32'34
asc. node	10580 Jun 08 16:09	10° © 30'40		retrograde	10581 Jun 06 21:57	8° 5 41'38	
evening max el	10580 Jun 16 21:32	21° © 37'15	18°09'39	evening set	10581 Jun 10 02:11	7°9544'44	
retrograde	10580 Jun 23 06:17	24°957'53		inferior conj	10581 Jun 15 19:10	2°9510'43	3°05'58
evening set	10580 Jun 26 02:36	24° © 15'32		minimum elong	10581 Jun 15 20:43	2°506'01	3°05'14
<i>5</i>							

	10581 Jun 17 14:33	30°R Ⅱ		greatest brilliancy	10582 May 02 16:24	2° Ⅲ 33'36	-0.7m
min. Earth dist.	10581 Jun 17 21:15	29° Ⅱ 40′14	0.65092 AU	asc. node	10582 May 13 10:22	17° Ⅲ 22'25	
morning rise	10581 Jun 21 14:21	25° Ⅱ 51'22		evening max el	10582 May 14 19:13	18° Ⅱ 50′04	19°12'45
direct	10581 Jun 28 03:34	23° Ⅱ 08'34		retrograde	10582 May 21 18:27	22° I I44'30	
desc. node	10581 Jun 29 10:06	23° Ⅱ 14′05		evening set	10582 May 25 06:57	21° Ⅲ 32′16	
	10581 Jul 10 12:40	0 \circ \odot		inferior conj	10582 May 30 17:42	15° Ⅱ 43'07	3°17'17
morning max el	10581 Jul 11 14:32	1° 5 03'48	27°09'55	minimum elong	10582 May 30 18:04	15° Ⅱ 41'55	3°16'45
	10581 Aug 02 02:42	$0^{\circ}\Omega$		min. Earth dist.	10582 Jun 01 04:46	13° Ⅱ 49'35	0.66657 AU
morning set	10581 Aug 16 03:39	24° Ω 50′20		morning rise	10582 Jun 05 04:42	9° Ⅱ 22'05	
	10581 Aug 18 18:35	0° ™		direct	10582 Jun 11 09:21	6° Ⅱ 39'41	
max. Earth dist.	10581 Aug 20 14:07	3° m 39'50	1.33550 AU	desc. node	10582 Jun 16 07:10	8° Ⅲ 02'23	
asc. node	10581 Aug 22 12:59	7° m)41'14		morning max el	10582 Jun 24 01:18	14° Ⅱ 13'46	26°03'55
					10582 Jul 06 21:22	0ංම	
superior conj	10581 Aug 24 13:03	11°M 53'12	0°19'40		10582 Jul 25 21:18	0 $^{\circ}\Omega$	
minimum elong	10581 Aug 24 12:04	11° m)48'01	0°19'15	morning set	10582 Jul 30 02:07	7° Ω 35'07	
evening rise	10581 Aug 31 18:05	27° m 15'29		max. Earth dist.	10582 Aug 02 22:17	14° Ω 50'47	1.35236 AU
	10581 Sep 02 01:25	0∘ ⊽					
	10581 Sep 20 07:12	0° ™		superior conj	10582 Aug 08 08:23	25° Ω 36'40	
evening max el	10581 Sep 21 11:25	1°M12'21	21°56'10	minimum elong	10582 Aug 08 09:00	25° Ω 39'51	0°10'35
desc. node	10581 Sep 25 08:01	4°M26'32		behind sun begin	10582 Aug 08 04:24	25° Ω 16'28	
retrograde	10581 Oct 04 01:40	7°M28'24		behind sun end	10582 Aug 08 13:36	26° Ω 03'16	
evening set	10581 Oct 07 02:15	7°M07'54	0.54506.444	asc. node	10582 Aug 09 09:49	27° Ω 46'39	
min. Earth dist.	10581 Oct 15 15:34		0.54706 AU		10582 Aug 10 11:45	0°M)	
inferior conj	10581 Oct 16 01:26 10581 Oct 15 17:53	3°M09'40 3°M20'14		evening rise	10582 Aug 16 02:12	11° ™ 37'37 0° ⊆	
minimum elong	10581 Oct 13 17.53 10581 Oct 22 10:51	30°R Ω	3 16 14	ovening may al	10582 Aug 25 16:39 10582 Sep 03 11:08	0 <u>≈</u> 11° ≏ 49'49	20°29'13
morning rise	10581 Oct 22 10.51 10581 Oct 24 10:54	30 K== 29° £ 22'24		evening max el desc. node	10582 Sep 05 11.08 10582 Sep 12 05:18	17° 2 06'16	20 29 13
direct	10581 Oct 24 10.34 10581 Oct 27 23:18	29 2 22 24 28° 2 55'14		retrograde	10582 Sep 12 03.18 10582 Sep 14 13:50	17° 2 20'45	
direct	10581 Nov 02 05:34	0°M		evening set	10582 Sep 14 15:30 10582 Sep 16 15:32	17 ≥ 20 45 17° ≥ 10'05	
morning max el	10581 Nov 09 02:31	4°M39'47	21°48'43	inferior conj	10582 Sep 10 13:32 10582 Sep 25 18:11	13° ⊆ 13'22	_3°58!38
asc. node	10581 Nov 18 13:29	16°M40'15	21 40 43	minimum elong	10582 Sep 25 18:11 10582 Sep 25 08:29		3°55'35
asc. node	10581 Nov 25 23:23	0° ₹		min. Earth dist.	10582 Sep 27 00:03	13° 2 27′27′	0.54749 AU
morning set	10581 Nov 29 23:25	8°×711'10		morning rise	10582 Oct 04 00:58	9° ₽ 11'20	0.0 17 15 110
				direct	10582 Oct 08 07:52	8° ₽ 31'50	
superior conj	10581 Dec 07 03:08	23° ∡ 19'44	1°35'23	morning max el	10582 Oct 21 16:22	15° ♀ 00'15	23°34'13
superior conj minimum elong	10581 Dec 07 03:08 10581 Dec 07 04:32	23° ₹ 19'44 23° ₹ 27'05	1°35'23 1°35'50	morning max el	10582 Oct 21 16:22 10582 Nov 02 08:52	15° ჲ 00'15 0° ጤ	23°34'13
				morning max el asc. node			23°34'13
	10581 Dec 07 04:32	23° ∡ ¹27'05			10582 Nov 02 08:52	0°M₊	23°34'13
minimum elong	10581 Dec 07 04:32 10581 Dec 10 08:29	23°⊀27'05 0°る	1°35'50	asc. node	10582 Nov 02 08:52 10582 Nov 05 10:23	0°ጤ 5°ጤ11'11	23°34'13
minimum elong max. Earth dist.	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20	23° メ 27'05 0°る 1°る45'49	1°35'50	asc. node	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01	0°ጤ 5°ጤ11'11 22°ጤ59'17	23°34'13
minimum elong max. Earth dist. evening rise	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57	23° メ 27'05 0° ठ 1° ठ 45'49 10° ठ 10'33	1°35'50	asc. node	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01	0°ጤ 5°ጤ11'11 22°ጤ59'17	23°34'13 1°39'44
minimum elong max. Earth dist. evening rise	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17	23° x 27'05 0° る 1° る45'49 10° る10'33 22° る32'13	1°35'50	asc. node morning set	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06	0°M 5°M11'11 22°M59'17 0°⊀	
minimum elong max. Earth dist. evening rise	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25	23° ₹27'05 0° ♂ 1° ♂45'49 10° ♂10'33 22° ♂32'13 0° ≫	1°35'50 1.34668 AU	asc. node morning set	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46	0°M 5°M11'11 22°M59'17 0° ♣ 7°♣756'00	1°39'44
minimum elong max. Earth dist. evening rise desc. node	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20	23° \$\frac{7}{27'05} 0° \frac{7}{32'13} 1° \frac{7}{32'13} 0° \frac{7}{32'13} 0° \frac{7}{32'13} 0° \frac{7}{32'13} 0° \frac{7}{32'13} 1° \frac{7}{32'13} 1° \frac{7}{32'13}	1°35'50 1.34668 AU	asc. node morning set superior conj minimum elong	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58	0°M 5°M11'11 22°M59'17 0° ₹ 7° ₹56'00 7° ₹57'04 13° ₹43'20 23° ₹54'32	1°39'44 1°40'13
minimum elong max. Earth dist. evening rise desc. node evening max el	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43	23° ₹27'05 0° ♂ 1° ♂ 45'49 10° ♂ 10'33 22° ♂ 32'13 0° ≈ 0° ¥ 1° ¥ 57'48 9° ¥ 18'55 6° ¥ 45'08	1°35'50 1.34668 AU 26°48'56	asc. node morning set superior conj minimum elong max. Earth dist.	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03	0°M 5°M11'11 22°M59'17 0°\$\frac{1}{3}	1°39'44 1°40'13
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 12 08:20	23° ₹27'05 0° ♂ 1° ♂45'49 10° ♂10'33 22° ♂32'13 0° ≈ 0° ¥ 1° ¥57'48 9° ¥18'55 6° ¥45'08 2° ¥45'08	1°35'50 1.34668 AU 26°48'56 0.65967 AU	asc. node morning set superior conj minimum elong max. Earth dist.	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18	0°M 5°M11'11 22°M59'17 0° ₹ 7°₹56'00 7°₹57'04 13°₹43'20 23°₹54'32 0°♂ 12°♂40'36	1°39'44 1°40'13
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 12 08:20 10582 Feb 14 08:17	23° ₹27'05 0° ♂ 1° ♂45'49 10° ♂10'33 22° ♂32'13 0° ≈ 0° ¥ 1° ¥57'48 9° ¥18'55 6° ¥45'08 2° ¥45'08 0° ¥25'17	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45	0°M. 5°M11'11 22°M.59'17 0° 7° ₹ 56'00 7° ₹ 57'04 13° ₹ 43'20 23° ₹ 54'32 0° ₹ 12° ₹ 40'36 0° ≈	1°39'44 1°40'13 1.33164 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22	23° \$\times 27'05 0° \$\times 10' \$\times 45'49 10° \$\times 10'33 22° \$\times 32'13 0° \$\times 0° \$\times 1' \$\times 57'48 9° \$\times 18'55 6° \$\times 45'08 2° \$\times 45'08 0° \$\times 25'17 0° \$\times 25'02	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53	0°M. 5°M11'11 22°M59'17 0° 7° 7° 7° 56'00 7° 757'04 13° 43'20 23° 754'32 0° 12° 740'36 0° 15° 15° 15° 15° 15° 11'11'	1°39'44 1°40'13 1.33164 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 14 08:20 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 08:22	23°ダ27'05 0°る 1°る45'49 10°る10'33 22°る32'13 0°≈ 0°光 1°光57'48 9°光18'55 6°光45'08 2°光45'08 0°光25'17 0°光25'02 0°光25'02	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19	0°M. 5°M11'11 22°M.59'17 0° 7° ₹ 56'00 7° ₹ 57'04 13° ₹ 43'20 23° ₹ 54'32 0° 12° 340'36 0° 15° 15° 23'14 22° 246'30	1°39'44 1°40'13 1.33164 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 12 08:20 10582 Feb 14 08:21 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 08:22	23° ダ27'05 0° で 1°でな5'49 10°で10'33 22°で32'13 0°≈ 0° 米 1° 米57'48 9° ¥18'55 6° ¥45'08 2° ¥45'08 0° ¥25'17 0° ¥25'02 0° ¥25'02 0° ¥33'31	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58	0°M. 5°M11'11 22°M59'17 0° 7° 7° 756'00 7° 757'04 13° 743'20 23° 754'32 0° 12° 740'36 0° 15° 15° 12° 12° 14'09	1°39'44 1°40'13 1.33164 AU 27°23'32
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 05:28 10582 Feb 14 11:16	23° ₹27'05 0° ♂ 1° ♂45'49 10° ♂10'33 22° ♂32'13 0° ≈ 0° ¥ 1° ¥57'48 9° ¥18'55 6° ¥45'08 2° ¥45'08 0° ¥25'17 0° ¥25'02 0° ¥25'02 0° ¥33'31 0° ¥16'35	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 26 10:50	0°M. 5°M.11'11 22°M.59'17 0° 7° ₹56'00 7° ₹57'04 13° ₹43'20 23° ₹54'32 0° 12° ₹40'36 0° 15° ≈23'14 22° ≈46'30 20° ≈14'09 16° ≈46'19	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 11:16	23° ダ27'05 0°る 1°る45'49 10°る10'33 22°る32'13 0°≈ 0° 米 1° 米57'48 9° 米18'55 6° 米45'08 2° 米45'08 0° 米25'17 0° 米25'02 0° 米33'31 0° 米16'35 0° 米13'18	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 26 10:50 10583 Jan 28 22:18	0°M. 5°M.11'11 22°M.59'17 0° 7° ₹56'00 7° ₹57'04 13° ₹43'20 23° ₹54'32 0° 512° ₹40'36 0° 15° ≈23'14 22° ≈46'30 20° ≈14'09 16° ≈46'19 14° ≈08'30	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 12:23 10582 Feb 14 12:23 10582 Feb 14 12:23	23° ダ27'05 0°る 1°る45'49 10°る10'33 22°る32'13 0°≈ 0° 米 1° 米57'48 9° 米18'55 6° 米45'08 2° 米45'08 0° 米25'17 0° 米25'02 0° 米33'31 0° 米16'35 0° 米13'18	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 26 10:50 10583 Jan 28 22:18 10583 Jan 29 00:26	0°M. 5°M.11'11 22°M.59'17 0° √ 7°√56'00 7°√57'04 13°√43'20 23°√54'32 0°♂ 12°♂40'36 0°≈ 15°≈23'14 22°≈46'30 20°≈14'09 16°≈46'19 14°≈08'30 14°≈02'49	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 11:16 10582 Feb 14 12:23 10582 Feb 14 16:58 10582 Feb 14 16:58	23° ₹27'05 0° ₹3 1° ₹45'49 10° ₹10'33 22° ₹32'13 0° ≈ 0° ₩ 1° ₩557'48 9° ₩18'55 6° ₩45'08 2° ₩45'08 0° ₩25'17 0° ₩25'02 0° ₩25'02 0° ₩33'31 0° ₩16'35 0° ₩13'18 30° ₹≈ 24° ≈47'25	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 26 10:50 10583 Jan 28 22:18 10583 Jan 29 00:26 10583 Feb 01 09:35	0° m. 5° m.11'11 22° m.59'17 0° x 7° x 56'00 7° x 57'04 13° x 43'20 23° x 54'32 0° 5 12° 540'36 0° ≈ 15° ≈ 23'14 22° ≈ 46'30 20° ≈ 14'09 16° ≈ 46'19 14° ≈ 08'30 14° ≈ 02'49 10° ≈ 44'18	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Jan 19 15:11 10582 Feb 01 19:19 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 12:23 10582 Feb 14 16:58 10582 Feb 14 16:58 10582 Feb 20 10:12 10582 Feb 20 10:12	23° ₹27'05 0° ₹3 1° ₹45'49 10° ₹10'33 22° ₹32'13 0° ≈ 0° ₩ 1° ₩557'48 9° ₩18'55 6° ₩45'08 2° ₩45'08 2° ₩25'17 0° ₩25'02 0° ₩33'31 0° ₩16'35 0° ₩13'18 30° ₹≈ 24° ≈47'25 24° ≈02'21	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 26 10:50 10583 Jan 28 22:18 10583 Jan 29 00:26 10583 Feb 01 09:35 10583 Feb 04 11:46	0°M. 5°M.11'11 22°M.59'17 0° √ 7°√56'00 7°√57'04 13°√43'20 23°√54'32 0° 5 12° 540'36 0° ≈ 15°≈23'14 22°≈46'30 20°≈14'09 16°≈46'19 14°≈08'30 14°≈02'49 10°≈44'18 8°≈44'29	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00
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minimum elong max. Earth dist. evening rise desc. node evening max el 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	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 12:23 10582 Feb 14 16:58 10582 Feb 14 16:58 10582 Feb 20 10:12 10582 Feb 20 10:12 10582 Feb 23 06:53 10582 Mar 01 17:14 10582 Mar 04 01:01 10582 Mar 20 06:45 10582 Mar 20 20:59 10582 Mar 23 16:33	23° 水27'05 0° でる 1°でる45'49 10°でる10'33 22°でる32'13 0° ※ 0° 米 1° 米57'48 9° ¥18'55 6° ¥45'08 0° ¥25'17 0° ¥25'02 0° ¥25'02 0° ¥33'31 0° ¥16'35 0° ¥13'18 30° R ※ 24° ※47'25 24° ※27'00 0° ¥ 24° ¥31'19 25° ¥28'33	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02 0°03'02	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 22 14:58 10583 Jan 22 14:58 10583 Jan 28 22:18 10583 Jan 29 00:26 10583 Feb 01 09:35 10583 Feb 01 09:35 10583 Feb 04 11:46 10583 Feb 07 00:03 10583 Feb 13 10:18 10583 Feb 26 04:48 10583 Mar 07 03:28 10583 Mar 07 03:28	0°M. 5°M.11'11 22°M.59'17 0° √ 7° √ 56'00 7° √ 57'04 13° √ 43'20 23° √ 54'32 0° 6 12° 6 40'36 0° ≈ 15° ≈23'14 22° ≈46'30 20° ≈14'09 16° ≈46'19 14° ≈08'30 14° ≈02'49 10° ≈44'18 8° ≈44'29 8° ≈12'18 11° ≈32'52 0° € 7° € 11'06 15° € 00'26	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00 1°07'42 17°51'48
minimum elong max. Earth dist. evening rise desc. node evening max el 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	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 11:16 10582 Feb 14 16:58 10582 Feb 14 16:58 10582 Feb 20 10:12 10582 Feb 23 06:53 10582 Mar 01 17:14 10582 Mar 04 01:01 10582 Mar 20 06:45 10582 Mar 20 06:45 10582 Mar 20 10:33	23° ₹27'05 0° ₹3 1° ₹45'49 10° ₹10'33 22° ₹32'13 0° ≈ 0° ₹ 1° ₹57'48 9° ₹18'55 6° ₹45'08 2° ₹45'08 2° ₹45'02 0° ₹25'02 0° ₹33'31 0° ₹16'35 0° ₹13'18 30° ₹≈ 24° ≈47'25 24° ≈47'25 24° ≈47'25 24° ≈47'25 24° ₹31'19 25° ₹28'33 0° ♀	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02 0°03'02 -1°41'12 1°40'27	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 09 03:18 10583 Jan 02 03:53 10583 Jan 22 14:58 10583 Jan 22 14:58 10583 Jan 22 14:58 10583 Jan 29 00:26 10583 Feb 01 09:35 10583 Feb 04 11:46 10583 Feb 07 00:03 10583 Feb 13 10:18 10583 Feb 26 04:48 10583 Mar 07 03:28	0°M. 5°M.11'11 22°M.59'17 0° √ 7°√56'00 7°√57'04 13°√43'20 23°√54'32 0° 512°540'36 0° 15°≈23'14 22°≈46'30 20°≈14'09 16°≈46'19 14°≈08'30 14°≈02'49 10°≈44'18 8°≈44'29 8°≈12'18 11°≈32'52 0° € 7°€11'06 15°€00'26	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00 1°07'42 17°51'48
minimum elong max. Earth dist. evening rise desc. node evening max el 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	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Feb 01 19:19 10582 Feb 12 08:20 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 12:23 10582 Feb 14 12:23 10582 Feb 14 16:58 10582 Feb 20 10:12 10582 Feb 20 10:12 10582 Feb 20 10:12 10582 Feb 20 10:12 10582 Feb 20 06:45 10582 Mar 04 01:01 10582 Mar 20 06:45 10582 Mar 20 20:59 10582 Apr 05 03:47 10582 Apr 05 03:47 10582 Apr 06 22:28	23° ₹27'05 0° ₹3 1° ₹45'49 10° ₹10'33 22° ₹32'13 0° ≈ 0° ₹ 1° ₹57'48 9° ₹18'55 6° ₹45'08 2° ₹45'08 2° ₹45'02 0° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹33'31 0° ₹16'35 0° ₹13'18 30° ₹≈ 24° ≈47'25 24° ≈47'25 24° ≈27'00 0° ₹ 24° ₹31'19 25° ₹28'33 0° ♀	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02 0°03'02 -1°41'12 1°40'27	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 22 14:58 10583 Jan 29 00:26 10583 Feb 01 09:35 10583 Feb 01 09:35 10583 Feb 04 11:46 10583 Feb 07 00:03 10583 Feb 13 10:18 10583 Feb 26 04:48 10583 Mar 07 03:28 10583 Mar 15 21:39 10583 Mar 15 21:39 10583 Mar 15 14:52	0°M. 5°M11'11 22°M.59'17 0° √ 7° √ 56'00 7° √ 57'04 13° √ 43'20 23° √ 54'32 0° 6 12° 6 40'36 0° 8 15° 823'14 22° 846'30 20° 814'09 16° 846'19 14° 808'30 14° 802'49 10° 844'18 8° 844'29 8° 812'18 11° 832'52 0° € 7° € 11'06 15° € 00'26	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00 1°07'42 17°51'48
minimum elong max. Earth dist. evening rise desc. node evening max el 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	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Feb 01 19:19 10582 Feb 08 07:43 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 11:16 10582 Feb 14 16:58 10582 Feb 14 16:58 10582 Feb 20 10:12 10582 Feb 23 06:53 10582 Mar 01 17:14 10582 Mar 04 01:01 10582 Mar 20 06:45 10582 Mar 20 06:45 10582 Mar 20 10:33	23° ₹27'05 0° ₹3 1° ₹45'49 10° ₹10'33 22° ₹32'13 0° ≈ 0° ₹ 1° ₹57'48 9° ₹18'55 6° ₹45'08 2° ₹45'08 2° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹33'31 0° ₹16'35 0° ₹13'18 30° ₹≈ 24° ≈47'25 24° ≈47'25 24° ≈27'00 0° ₹25'00 0° ₹25'02 0° ₹33'31 0° ₹13'18 30° ₹≈ 24° ≈47'25 24° ≈47'25 24° ≈47'25 24° ≈27'00 0° ₹28'33 0° ♀	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02 0°03'02 -1°41'12 1°40'27	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 22 14:58 10583 Jan 29 00:26 10583 Feb 01 09:35 10583 Feb 04 11:46 10583 Feb 07 00:03 10583 Feb 13 10:18 10583 Feb 26 04:48 10583 Mar 07 03:28 10583 Mar 15 21:39 10583 Mar 15 14:52 10583 Mar 15 14:52 10583 Mar 15 14:52	0°M. 5°M.11'11 22°M.59'17 0° √ 7° √ 56'00 7° √ 57'04 13° √ 43'20 23° √ 54'32 0° 6 12° 6 30' 20° ≈ 14'09 16° ≈ 46'19 14° ≈ 08'30 14° ≈ 02'49 10° ≈ 44'18 8° ≈ 44'29 8° ≈ 12'18 11° ≈ 32'52 0° € 7° € 11'06 15° € 00'26 29° € 20'10 28° € 52'56 0° ♥	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00 1°07'42 17°51'48
minimum elong max. Earth dist. evening rise desc. node evening max el 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	10581 Dec 07 04:32 10581 Dec 10 08:29 10581 Dec 11 05:20 10581 Dec 15 11:57 10581 Dec 22 06:17 10581 Dec 26 16:25 10582 Jan 17 16:20 10582 Feb 01 19:19 10582 Feb 12 08:20 10582 Feb 14 08:17 10582 Feb 14 08:22 10582 Feb 14 08:22 10582 Feb 14 05:28 10582 Feb 14 11:16 10582 Feb 14 12:23 10582 Feb 14 12:23 10582 Feb 14 16:58 10582 Feb 20 10:12	23° ₹27'05 0° ₹3 1° ₹45'49 10° ₹10'33 22° ₹32'13 0° ≈ 0° ₹ 1° ₹57'48 9° ₹18'55 6° ₹45'08 2° ₹45'08 2° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹25'02 0° ₹33'31 0° ₹16'35 0° ₹13'18 30° ₹≈ 24° ≈47'25 24° ≈02'21 27° ≈27'00 0° ₹25'00 0° ₹33'31 0° ₹13'18 30° ₹≈ 24° ≈47'25 24° ≈47'25 24° ≈27'00 0° ₹25'00 0° ₹25'00 0° ₹25'00 0° ₹25'00 0° ₹31'19 25° ₹28'33 0° ₹14 22° ₹32'39 0° ₹32'39 0° ₹3	1°35'50 1.34668 AU 26°48'56 0.65967 AU -0°03'22 0°03'02 0°03'02 -1°41'12 1°40'27	asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong ax. Earth dist.	10582 Nov 02 08:52 10582 Nov 05 10:23 10582 Nov 14 11:01 10582 Nov 17 17:06 10582 Nov 21 08:46 10582 Nov 21 08:58 10582 Nov 24 01:38 10582 Nov 29 00:13 10582 Dec 02 03:03 10582 Dec 09 03:18 10582 Dec 20 06:45 10583 Jan 02 03:53 10583 Jan 15 18:19 10583 Jan 22 14:58 10583 Jan 26 10:50 10583 Jan 28 22:18 10583 Jan 29 00:26 10583 Feb 01 09:35 10583 Feb 04 11:46 10583 Feb 07 00:03 10583 Feb 13 10:18 10583 Feb 26 04:48 10583 Mar 07 03:28 10583 Mar 15 21:39 10583 Mar 15 11:52 10583 Mar 16 07:34 10583 Mar 16 07:34	0°M. 5°M.11'11 22°M.59'17 0° √ 7° √ 56'00 7° √ 57'04 13° √ 43'20 23° √ 54'32 0° 6 12° 6 23' 14 22° ≈46'30 20° ≈14'09 16° ≈46'19 14° ≈08'30 14° ≈02'49 10° ≈44'18 8° ≈44'29 8° ≈12'18 11° ≈32'52 0° € 7° € 11'06 15° € 00'26 29° € 20'10 28° € 52'56 0° ♥ 7° ♥ 01'50	1°39'44 1°40'13 1.33164 AU 27°23'32 0.64355 AU -1°09'00 1°07'42 17°51'48

greatest brilliancy	10583 Apr 15 19:25	16° 8 47'10	-0.6m		10584 Mar 07 22:39	0° Υ	
	10583 Apr 25 15:20	Π °0		evening rise	10584 Mar 10 07:44	3° Y ′42′07	
evening max el	10583 Apr 27 23:03	2° Ⅱ 32'21	20°08'44		10584 Mar 28 00:33	0°8	
asc. node	10583 Apr 30 07:32	4° Ⅱ 40'35		evening max el	10584 Apr 09 21:20	16° 8 15'47	21°17'34
retrograde	10583 May 05 17:01	7° Ⅱ 00′26		asc. node	10584 Apr 16 04:44	20° 8 55'03	
evening set	10583 May 09 14:33	5° Ⅱ 32'34		retrograde	10584 Apr 18 15:27	21° 8 24'18	
inferior conj	10583 May 14 22:02	29° 8 30'00	3°15'06	evening set	10584 Apr 22 23:03	19° 8 40'44	
minimum elong	10583 May 14 21:19	29° 8 32'27	3°14'36	inferior conj	10584 Apr 28 05:46	13° 8 26'45	3°01'31
	10583 May 14 13:11	30° ₹ 8		minimum elong	10584 Apr 28 04:12	13° 8 32'11	3°00'56
min. Earth dist.	10583 May 15 18:45	28° 8 19'35	0.67777 AU	min. Earth dist.	10584 Apr 28 13:03	13° 8 01'23	0.68441 AU
morning rise	10583 May 20 03:47	23° 8 10'54		morning rise	10584 May 03 09:08	7° 8 11'47	
direct	10583 May 25 21:00	20° 8 38'14		direct	10584 May 08 13:19	4° 8 55'48	
desc. node	10583 Jun 03 04:08	24° 8 32'19		morning max el	10584 May 18 20:49	11° 8 03'35	23°11'26
morning max el	10583 Jun 06 11:02	27° 8 35'24	24°41'06	desc. node	10584 May 20 01:01	12° 8 16'49	
	10583 Jun 08 17:25	Π $\circ 0$			10584 Jun 02 21:54	Π $^{\circ}0$	
	10583 Jun 30 13:15	0ං ව			10584 Jun 22 08:21	0 \circ \odot	
morning set	10583 Jul 12 07:09	19° © 30'15		morning set	10584 Jun 22 13:27	0° 5 21'16	
max. Earth dist.	10583 Jul 15 21:30	25° © 56'50	1.37316 AU	max. Earth dist.	10584 Jun 26 18:11	7° 5 29'13	1.39603 AU
	10583 Jul 18 02:16	$0^{\circ}\Omega$					
				superior conj	10584 Jul 04 11:10	21° © 15'48	-1°16'13
superior conj	10583 Jul 22 17:04	8° Ω 47'37	-0°43'04	minimum elong	10584 Jul 04 16:17	21° © 39'29	1°15'57
minimum elong	10583 Jul 22 19:52	9° Ω 01'15	0°43'00		10584 Jul 09 02:56	$0^{\circ}\Omega$	
asc. node	10583 Jul 27 06:41	17° Ω 48'50		asc. node	10584 Jul 13 03:35	7° Ω 43'17	
evening rise	10583 Jul 31 05:16	25° Ω 42'54		evening rise	10584 Jul 14 00:16	9° Ω 22'41	
	10583 Aug 02 09:01	0° m)			10584 Jul 25 16:59	0° m y	
evening max el	10583 Aug 17 00:49	23° m 13'49	19°22'02	evening max el	10584 Jul 30 02:12	5° mp 21'58	18°36'01
retrograde	10583 Aug 26 10:46	27° m 54'22		retrograde	10584 Aug 07 01:24	9° m 21'07	
evening set	10583 Aug 28 06:52	27° mp 44'27		evening set	10584 Aug 09 01:55	9° m/06'35	
desc. node	10583 Aug 30 02:35	27° m/16'16		desc. node	10584 Aug 15 23:51	5° m 23'07	
inferior conj	10583 Sep 05 22:28	23° m/36'47	-2°07'09	inferior conj	10584 Aug 16 22:53	4° m/39'42	-0°17'44
minimum elong	10583 Sep 05 16:49	23° m/ 46'01		minimum elong	10584 Aug 16 22:10	4° m 41'03	
min. Earth dist.	10583 Sep 08 12:03	21° m 56'38	0.55731 AU	min. Earth dist.	10584 Aug 20 04:52	2° m) 12'11	0.57460 AU
morning rise	10583 Sep 14 00:07	19° m 02'45			10584 Aug 23 14:29	30° ₽.Ω	
direct	10583 Sep 19 02:48	18° m 03'21		morning rise	10584 Aug 24 14:58	29° Ω 28'26	
morning max el	10583 Oct 03 03:51	25° m 08'36	25°19'01	direct	10584 Aug 30 11:52	28° Ω 02'18	
	10583 Oct 07 16:38	0∘ <u>⊽</u>			10584 Sep 06 12:31	0° m)	
asc. node	10583 Oct 23 07:15	24° £ 15'14		morning max el	10584 Sep 13 19:31	5° m/34'23	26°45'47
	10583 Oct 26 05:27	0° M .			10584 Oct 01 18:46	0∘ ⊽	
morning set	10583 Oct 29 22:37	7° M .44'33		asc. node	10584 Oct 09 04:04	13° ≏ 43'08	
				morning set	10584 Oct 13 08:32	22° ≏ 21'42	
superior conj	10583 Nov 05 18:23	22°M41'26	1°37'49	morning sec	10584 Oct 16 21:00	0°M	
minimum elong	10583 Nov 05 17:30	22°M36'30	1°38'11				
max. Earth dist.	10583 Nov 07 05:15	25°M53'00	1.32123 AU	superior conj	10584 Oct 20 05:55	7° M 28'57	1°30'07
	10583 Nov 09 02:39	0° ∡ 7		minimum elong	10584 Oct 20 04:12	7° ™ 19'21	1°30'15
evening rise	10583 Nov 12 21:54	8° ∡ 102'42		max. Earth dist.	10584 Oct 20 13:35	8°M11'38	1.31558 AU
	10583 Nov 24 13:28	0°ಕ		evening rise	10584 Oct 27 02:13	22°M27'00	
desc. node	10583 Nov 26 00:23	2° ට 26'07			10584 Oct 30 18:08	0° ⊼ 7	
evening max el	10583 Dec 15 14:14	28° ට 19'55	27°29'28	desc. node	10584 Nov 11 21:33	21° × ⁷ 39'07	
3	10583 Dec 17 10:38	0° ≈			10584 Nov 17 15:21	0°ਰ	
retrograde	10583 Dec 29 10:10	5° ≈ 38'11		evening max el	10584 Nov 26 19:38	10° る 34'58	27°02'05
evening set	10584 Jan 05 10:33	3° ≈ 15'44		retrograde	10584 Dec 10 17:33	17° る 45'09	
min. Earth dist.	10584 Jan 09 03:51		0.62456 AU	evening set	10584 Dec 17 14:52	15° る 41'53	
min Darm Gibt.	10584 Jan 09 10:36	30°Rට්	0.02 100 110	min. Earth dist.	10584 Dec 21 10:10		0.60373 AU
inferior conj	10584 Jan 12 01:16	27° ට 31'02	-2°21'41	inferior conj	10584 Dec 24 13:47	10° る 23'54	
minimum elong	10584 Jan 12 05:58	27° る 19'49		minimum elong	10584 Dec 24 20:56	10° ろ 08'58	
morning rise	10584 Jan 19 03:48	22°る23'42	2 1720	morning rise	10585 Jan 01 05:39	5° る 36'32	3 3 1 23
asc. node	10584 Jan 19 06:45	22° る 21'17		direct	10585 Jan 03 08:54	5°る18'44	
direct	10584 Jan 21 09:59	22°る00'32		asc. node	10585 Jan 05 03:51	5°る31'45	
morning max el	10584 Jan 28 03:37	25° පි 26'41	17°47'35	morning max el	10585 Jan 10 17:50	8°る59'29	18°02'09
morning max ci	10584 Jan 31 23:15	23 3 2041 0° ≈	11 7/33	morning max ci	10585 Jan 24 09:10	0°≈	10 02 07
morning set	10584 Feb 13 01:26	0 ≈ 20°≈01'03		morning set	10585 Jan 26 08:36	0 ∞ 3°≈39'18	
morning set	10584 Feb 18 17:50	20 ≈ 01 03 0° ∺		morning set	10303 Jan 20 00.30	J ~>J710	
desc. node	10584 Feb 18 17:50 10584 Feb 22 00:12	5° ∺ 37'23		superior coni	10585 Feb 05 08:18	21° ≈ 52'48	0°19'19
dese. Houe	103071'00 22 00.12	J N 3 1 43		superior conj minimum elong	10585 Feb 05 09:51	21 ≈3248 21°≈59'41	0°19'19
superior conj	10584 Feb 24 14:34	10° ₩ 01'19	-0°19'32	desc. node	10585 Feb 07 21:00	21 ≈3941 26°≈18'48	0 1/2/
minimum elong	10584 Feb 24 12:40	9° X 53'17		desc. node	10585 Feb 10 00:26	20 ≈1848 0° ∺	
max. Earth dist.	10584 Mar 02 10:12		1.43867 AU	max. Earth dist.	10585 Feb 10 00.26		1.42102 AU
max. Darui uist.	1050+1 viai 02 10.12	21 /\1400	1.7500/ AU	max. Larm dist.	10303100 12 22.39	7 // 3/1/	1.72102 AU

evening rise	10585 Feb 18 10:32	13° ¥ 53'55			10586 Feb 02 10:24	0° ∀	
	10585 Feb 28 21:06	$0^{\circ}\mathbf{\Upsilon}$			10586 Feb 22 15:21	0° Y	
evening max el	10585 Mar 23 14:53	0° 8 01'17	22°34'56	evening max el	10586 Mar 06 05:18	13° Ƴ 48'47	23°55'21
	10585 Mar 23 14:23	0° 8		retrograde	10586 Mar 17 05:54	20° Y 18′09	
retrograde	10585 Apr 02 12:11	5° 8 52'01		asc. node	10586 Mar 20 23:13	19° Ƴ 13'12	
asc. node	10585 Apr 03 01:58	5° 8 50'25		evening set	10586 Mar 22 12:24	18° Ƴ 05'38	
evening set	10585 Apr 07 06:51	3° 8 53'20		min. Earth dist.	10586 Mar 27 05:57	12° Y '36'29	0.68427 AU
evening sec	10585 Apr 10 19:05	30°RY		inferior conj	10586 Mar 27 23:25	11° Υ 37'05	2°04'36
:c:	•	27° Υ 30'22	2°37'48	minimum elong	10586 Mar 27 21:14	11° Υ '44'29	2°03'53
inferior conj	10585 Apr 12 14:52			C			2 03 33
minimum elong	10585 Apr 12 12:47	27° Y 37'34	2°37'07	morning rise	10586 Apr 02 06:07	5° Y 34'21	
min. Earth dist.	10585 Apr 12 09:30	27° Ƴ 49'00	0.68654 AU	direct	10586 Apr 06 07:33	4° Ƴ 01'06	
morning rise	10585 Apr 17 18:35	21° Y 20'57		morning max el	10586 Apr 14 05:41	8° Ƴ 30′22	20°26'11
direct	10585 Apr 22 09:15	19° Ƴ 25'44		desc. node	10586 Apr 23 18:42	20° Ƴ 14'12	
morning max el	10585 May 01 10:00	24° Ƴ 41'07	21°44'09		10586 Apr 30 14:12	$_{0\circ}$ 8	
	10585 May 06 03:45	8° 0		morning set	10586 May 12 22:32	18° 8 40'10	
desc. node	10585 May 06 21:52	0° 8 55'52			10586 May 20 03:50	Π°	
	10585 May 27 07:54	0°II		max. Earth dist.	10586 May 22 03:06	3° Ⅱ 09'04	1.43687 AU
morning set	10585 Jun 02 17:22	10° I 100'18		max. Earth dist.	10300 May 22 03.00	3 12070.	1.15007 710
max. Earth dist.		10 Ⅱ 00 18 19° Ⅱ 53'14	1 41020 ATT	gumarian aani	10596 May 29, 00:52	120 T 24100	2007106
max. Earth dist.	10585 Jun 08 19:18		1.41820 AU	superior conj	10586 May 28 09:53	13° Ⅱ 24'09	
	10585 Jun 14 18:46	0 \circ 6		minimum elong	10586 May 28 14:33	13° Ⅱ 43'32	2°07'22
					10586 Jun 07 04:18	0 \circ \odot	
superior conj	10585 Jun 16 10:11	2° © 51'06	-1°46'03	evening rise	10586 Jun 09 22:13	4°9547'04	
minimum elong	10585 Jun 16 16:37	3° © 19'16	1°45'56	asc. node	10586 Jun 16 21:34	16° 9 51'14	
evening rise	10585 Jun 27 07:28	22° © 28'00			10586 Jun 25 20:01	$0^{\circ}\Omega$	
asc. node	10585 Jun 30 00:34	27° © 25'56		evening max el	10586 Jun 27 00:28	1° Ω 15'17	18°04'37
	10585 Jul 01 10:34	$0^{\circ}\Omega$		retrograde	10586 Jul 03 11:54	4° Ω 36'31	
evening max el	10585 Jul 13 11:23	18° Ω 05'51	18°10'32	evening set	10586 Jul 06 03:34	4° Ω 01'58	
retrograde	10585 Jul 20 11:05	21° Ω 38'26	10 1032	evening sec	10586 Jul 11 11:51	30°Rூ	
evening set	10585 Jul 22 18:56	21°Ω15'23		inferior conj	10586 Jul 12 13:40	28°955'00	2°12'49
-		$16^{\circ}\Omega 27'39$	1010122	·			
inferior conj	10585 Jul 29 20:56		1°10'23	minimum elong	10586 Jul 12 16:27	28°547'53	2°11'35
minimum elong	10585 Jul 29 23:03	16° Ω 22'56	1°09'15	min. Earth dist.	10586 Jul 15 13:32	25° © 52'36	0.61880 AU
min. Earth dist.	10585 Aug 02 04:45	13° Ω 31'18	0.59618 AU	morning rise	10586 Jul 19 03:04	22° © 50'12	
desc. node	10585 Aug 02 21:04	12° Ω 57'30		desc. node	10586 Jul 20 18:15	21° © 49'21	
morning rise	10585 Aug 06 00:02	10° Ω 44'26		direct	10586 Jul 25 19:29	20° © 28'47	
direct	10585 Aug 12 10:05	8° Ω 48'56		morning max el	10586 Aug 08 23:55	28° © 30'37	27°57'12
morning max el	10585 Aug 26 18:27	16° Ω 39'46	27°40'36	-	10586 Aug 10 10:39	$0^{\circ}\Omega$	
Č	10585 Sep 06 18:14	0° m/p			10586 Aug 31 14:47	0° m)	
	10585 Sep 24 07:45	0∘ ত		morning set	10586 Sep 11 16:11	20° m 52'53	
asc. node	10585 Sep 26 00:54	ა <u>~</u> 3° <u>~</u> 28′21		asc. node	10586 Sep 12 21:44	23° m) 25'24	
	•			asc. node		0° ⊽	
morning set	10585 Sep 27 15:03	6° £ 46'12	1 21 155 177	P. 4. P.	10586 Sep 16 00:15		1.01056.477
max. Earth dist.	10585 Oct 03 23:04	20° ≏ 30'42	1.31475 AU	max. Earth dist.	10586 Sep 17 05:42	2° ≏ 39'14	1.31876 AU
superior conj	10585 Oct 04 17:30	22° ≏ 13'07	1°16'57	superior conj	10586 Sep 19 03:20	6° ≙ 48'41	0°58'33
minimum elong	10585 Oct 04 15:19	22° ♀ 00'59	1°16'48	minimum elong	10586 Sep 19 01:09	6° ≏ 36'44	0°58'11
	10585 Oct 08 05:36	0° M ₊		evening rise	10586 Sep 25 21:52	21° ≏ 39'30	
evening rise	10585 Oct 11 10:53	7° M L01'08			10586 Sep 29 21:30	0° M .	
Č	10585 Oct 23 07:30	0° ≯ ¹		desc. node	10586 Oct 16 15:59	27° M _31'17	
desc. node	10585 Oct 29 18:45	10° ∡ ¹06'38			10586 Oct 18 19:17	0° ∡ ¹	
evening max el	10585 Nov 08 17:16	21° х 58'24	26°00'53	evening max el	10586 Oct 21 06:54	2° × ⁷ 33'28	24°32'55
retrograde	10585 Nov 22 15:00	29° х 01'08	20 00 33	•	10586 Nov 04 01:10	9° x 27'35	24 32 33
Č				retrograde			
evening set	10585 Nov 28 23:21	27° ∡ ¹25'43		evening set	10586 Nov 09 08:01	8° ∡ ¹25'33	
min. Earth dist.	10585 Dec 03 06:01	24° ₹ ′50'32		min. Earth dist.	10586 Nov 14 18:06	5° ∡ 37'15	0.56414 AU
inferior conj	10585 Dec 06 08:16	22° ҂ ³36′38	-4°47'14	inferior conj	10586 Nov 17 06:27	4° ҂ 02'03	-5°35'49
minimum elong	10585 Dec 06 16:11	22° ≯ 22'19	4°44'50	minimum elong	10586 Nov 17 11:00	3° ∡ ¹54'51	5°34'54
morning rise	10585 Dec 14 11:29	18° ∡ 11'53		morning rise	10586 Nov 25 16:10	29°M59'08	
direct	10585 Dec 16 16:17	17° ∡ 756′07			10586 Nov 25 14:37	30°RML	
asc. node	10585 Dec 23 00:56	20° ∡ 17'15		direct	10586 Nov 28 04:29	29°M42'04	
morning max el	10585 Dec 25 01:11	22° ∡ ¹00'40	18°37'05		10586 Nov 30 16:36	0° ∡ ¹	
	10585 Dec 31 06:44	0°ਰ ਹ°ਰ	/ 	morning max el	10586 Dec 07 21:58	4° ∡ 720'08	19°34'03
morning set	10586 Jan 10 03:37	0 0 17°る49'20		asc. node	10586 Dec 09 21:58	6°×726'08	1, 5.05
morning set	10586 Jan 16 10:59	0°≈		use. Houe	10586 Dec 24 02:38	0 x 2008 0°る	
	10.300 Jaii 10 10.39	U ~~					
	10506 Y 10 55 55	40 42:05	0050154	morning set	10586 Dec 25 06:35	2° る 19'59	
superior conj	10586 Jan 18 22:58	4°≈43'02	0°50'54		10505 7	100-71	1014:5
minimum elong	10586 Jan 19 01:57	4°≈56'56	0°50'55	superior conj	10587 Jan 02 05:37	18° る 17'59	1°14'18
desc. node	10586 Jan 25 17:51	17° ≈ 00'35		minimum elong	10587 Jan 02 08:33	18° る 32'21	1°14'27
max. Earth dist.	10586 Jan 26 07:15	17° ≈ 59'07	1.39990 AU		10587 Jan 08 08:49	0° ≈	
evening rise	10586 Jan 30 09:54	25° ≈ 00'37		max. Earth dist.	10587 Jan 08 13:08	0° ≈ 19'55	1.37782 AU

evening rise	10587 Jan 12 06:27	7° ≈ 02'44		evening rise	10587 Dec 25 21:19	19° る 51'54	
desc. node	10587 Jan 12 14:46	7° ≈ 39'20		desc. node	10587 Dec 30 11:42	28° る 10'17	
	10587 Jan 26 07:54	0° ∀			10587 Dec 31 12:55	0° ≈	
evening max el	10587 Feb 16 18:35	27° ∺ 38′28	25°12'16		10588 Jan 20 08:46	0° ∀	
	10587 Feb 19 08:02	$0^{\circ}\mathbf{\Upsilon}$		evening max el	10588 Jan 30 08:03	11° ¥ 26′20	26°18'36
retrograde	10587 Feb 28 19:36	4° Ƴ 37'19		retrograde	10588 Feb 12 04:11	18°) (42′37	
evening set	10587 Mar 06 14:08	2° Y 13'31		evening set	10588 Feb 18 10:20	16° ¥ 11'17	
asc. node	10587 Mar 07 20:27	1° Y '02'44		min. Earth dist.	10588 Feb 22 14:14	11°) 51'28	0.66736 AU
use. Houe	10587 Mar 08 19:44	30°R) €		asc. node	10588 Feb 22 17:40	11° X 41'06	0.00750710
. E 4 E 4		*	0.67702 ATT				0020122
min. Earth dist.	10587 Mar 11 00:15	27°) 19'13	0.67782 AU	inferior conj	10588 Feb 24 07:18	9°) (45′57	
inferior conj	10587 Mar 12 05:34	25°) 43'45	1°22'10	minimum elong	10588 Feb 24 06:31	9°) 48′22	0°30'26
minimum elong	10587 Mar 12 03:47	25°) 49'34	1°21'37	morning rise	10588 Mar 01 03:31	4° ∺ 01′02	
morning rise	10587 Mar 17 17:47	19°) 49′03		direct	10588 Mar 04 05:45	3°) €06'57	
direct	10587 Mar 21 06:58	18° ¥ 36'41		morning max el	10588 Mar 10 19:42	6° ∺ 39'14	18°33'39
morning max el	10587 Mar 28 09:11	22°) €31'12	19°21'55		10588 Mar 27 09:46	0 ° \mathbf{Y}	
-	10587 Apr 03 15:29	$0^{\circ}\mathbf{Y}$		desc. node	10588 Mar 27 12:15	0° Y ′09'47	
greatest brilliancy	10587 Apr 10 03:52	9° Ƴ 18'19	-0.7m	morning set	10588 Mar 31 15:55	6° Ƴ 42'02	
desc. node	10587 Apr 10 15:29	10° Y ′01'28			10588 Apr 15 12:20	0°8	
morning set	10587 Apr 21 22:20	27° Υ 12'11			10300 Apr 13 12.20	ů O	
morning set	•				10500 A 16 17.56	10055142	1050100
F 4 F	10587 Apr 23 17:49	0°8	1 45000 477	superior conj	10588 Apr 16 17:56	1° 8 55'42	
max. Earth dist.	10587 May 04 16:57	17° 8 05'45	1.45000 AU	minimum elong	10588 Apr 16 09:41	1° 8 23'28	
				max. Earth dist.	10588 Apr 16 11:12	1° 8 29'24	1.45623 AU
superior conj	10587 May 08 09:48	22° 8 57'34	-2°12'40	evening rise	10588 May 02 09:17	26° 8 33'18	
minimum elong	10587 May 08 08:16	22° 8 51'27	2°13'02		10588 May 04 13:17	$\Pi^{\circ}0$	
	10587 May 12 19:12	$\Pi^{\circ}0$		greatest brilliancy	10588 May 10 21:37	10° Ⅱ 03′26	-0.8m
evening rise	10587 May 22 15:43	16° Ⅱ 09'45		asc. node	10588 May 20 15:42	24° Ⅲ 23′05	
3	10587 May 31 00:42	0°ಅ		evening max el	10588 May 24 01:30	28° Ⅱ 18'56	18°47'43
asc. node	10587 Jun 03 18:36	5° 9 52'48		evening max er	10588 May 25 22:41	0°95	10 17 15
evening max el	10587 Jun 10 14:05	14° 9 541'48	18°17'17	retrograde	10588 May 30 17:10	1° 9 58'24	
•			10 1/1/	•	•		
retrograde	10587 Jun 16 23:12	18° © 05'36		evening set	10588 Jun 03 00:51	0°\$55'06	
evening set	10587 Jun 19 22:45	17° © 17'22			10588 Jun 04 06:42	30°R∏	
inferior conj	10587 Jun 25 20:54	11° © 53'00	2°52'09	inferior conj	10588 Jun 08 14:48	25° Ⅱ 14'46	
minimum elong	10587 Jun 25 23:04	11° 5 46'47	2°51'14	minimum elong	10588 Jun 08 15:51	25° Ⅱ 11′28	3°11'57
min. Earth dist.	10587 Jun 28 07:40	9° © 05'47	0.64004 AU	min. Earth dist.	10588 Jun 10 10:34	22° Ⅲ 58'41	0.65811 AU
morning rise	10587 Jul 01 22:01	5°936'43		morning rise	10588 Jun 14 06:09	18° Ⅱ 54'16	
desc. node	10587 Jul 07 15:24	3° © 01'14		direct	10588 Jun 20 16:20	16° Ⅱ 10′02	
direct	10587 Jul 08 14:10	2°958'12		desc. node	10588 Jun 23 12:28	16° ∏ 37'43	
	10587 Jul 22 09:16	11°500'13	27°36'28		10588 Jul 03 19:53	23° П 58'16	26°44'30
morning max el			27 30 28	morning max el			20 44 30
	10587 Aug 06 09:06	0° N			10588 Jul 09 05:19	0° ©	
	10587 Aug 24 01:15	0° ™			10588 Jul 29 18:22	0 \circ Ω	
morning set	10587 Aug 26 09:26	4° Mp 34′00		morning set	10588 Aug 08 15:47	17° Ω 41'58	
asc. node	10587 Aug 30 18:32	13° m 28'44		max. Earth dist.	10588 Aug 12 19:21	25° Ω 46'54	1.34206 AU
max. Earth dist.	10587 Aug 31 05:26	14° m 25'44	1.32784 AU		10588 Aug 14 21:33	0° m ∕	
				asc. node	10588 Aug 16 15:21	3° m 34'40	
superior conj	10587 Sep 03 09:20	21°Mp08'51	0°35'12				
minimum elong	10587 Sep 03 07:44	21° m)00'15	0°34'45	superior conj	10588 Aug 17 09:19	5° m 07'56	0°07'23
	10587 Sep 07 11:30	0∘ ⊽		minimum elong	10588 Aug 17 08:57	5° mp 05'57	0°07'02
evening rise	10587 Sep 10 09:15	6° ჲ 15'35		behind sun begin	10588 Aug 17 03:43	4° Mp 38'48	0 07 02
evening rise	-			-	-	-	
	10587 Sep 22 20:59	0°M	22052144	behind sun end	10588 Aug 17 14:10	5° TD 33'09	
evening max el	10587 Oct 02 17:37		22°52'44	evening rise	10588 Aug 24 19:08	20° m/44'31	
desc. node	10587 Oct 03 13:15	13°M28'19			10588 Aug 29 08:01	0∘ ত	
retrograde	10587 Oct 15 22:47	19° ™ 16'45		evening max el	10588 Sep 13 10:30	22° ≏ 59'59	21°17'10
evening set	10587 Oct 19 18:30	18° M ₊44'52		desc. node	10588 Sep 19 10:29	27° ≏ 28'25	
min. Earth dist.	10587 Oct 27 02:15	15°M25'16	0.55101 AU	retrograde	10588 Sep 25 10:52	28° ≏ 57'45	
inferior conj	10587 Oct 28 09:41	14° M .40'11	-5°42'01	evening set	10588 Sep 27 23:35	28° ≗ 42'57	
minimum elong	10587 Oct 28 06:27	14° M 44'51	5°41'28	inferior conj	10588 Oct 07 02:13	24° ≏ 47'24	-4°51'09
morning rise	10587 Nov 05 20:06	10°M51'12		minimum elong	10588 Oct 06 16:46	25° ഫ 00'39	4°48'47
direct	10587 Nov 08 22:25	10°M28'52		min. Earth dist.	10588 Oct 07 09:41	24° Ω 36'55	0.54609 AU
		15°M48'40	20°53'39		10588 Oct 07 09:41 10588 Oct 15 10:37	24 ⊆ 36 33 20° ⊆ 56'20	0.54007 AU
morning max el	10587 Nov 20 05:16		20 33 39	morning rise			
asc. node	10587 Nov 26 18:57	23°M41'36		direct	10588 Oct 19 06:58	20° £ 24'24	22022
	10587 Nov 30 18:27	0° ∡ ¹		morning max el	10588 Oct 31 23:45	26° ≏ 28'15	22°32'29
morning set	10587 Dec 09 14:35	17° ∡ °02'04			10588 Nov 04 08:27	0° M	
	10587 Dec 15 19:50	5°0		asc. node	10588 Nov 12 15:53	11° M 48'45	
					10588 Nov 22 04:33	0° ∡ 7	
superior conj	10587 Dec 16 23:48	2° පි 24'11	1°29'47	morning set	10588 Nov 23 01:25	1° √ 49'41	
minimum elong	10587 Dec 17 01:52	2° る 34'47	1°30'09	-			
max. Earth dist.	10587 Dec 21 21:46	12° る 16'04	1.35720 AU	superior conj	10588 Nov 30 02:04	16° ∡ 751'48	1°38'01
	1000, 200 21 21.40	1004	2.00,20110	superior conj	100001101 00 02.04	, 51 70	

minimum elong max. Earth dist.	10588 Nov 30 02:58 10588 Dec 03 13:35 10588 Dec 06 10:33	16° 🖈 56'32 24° 🖈 09'57 0° 云	1°38'30 1.33983 AU	asc. node morning set	10589 Oct 30 12:46 10589 Nov 07 13:15 10589 Nov 13 16:42	0°M35'00 16°M37'29 0°⊀	
evening rise desc. node	10588 Dec 08 02:50 10588 Dec 16 08:40	3°ත්18'44 18°ත්28'45		superior conj	10589 Nov 14 09:41	1° х 32'49	1°39'39
evening max el	10588 Dec 23 09:19 10589 Jan 11 21:35 10589 Jan 18 00:53	0°≈ 25°≈04'04 0°¥	27°06'48	minimum elong max. Earth dist. evening rise	10589 Nov 14 09:23 10589 Nov 16 13:31 10589 Nov 21 19:28	1° 🖈 31'15 6° 🖈 13'59 17° 🖈 14'07	1°40'06 1.32663 AU
retrograde evening set	10589 Jan 25 06:44 10589 Jan 31 22:58 10589 Jan 31 19:12	2°¥26'28 29°≈52'47 30°R≈		desc. node	10589 Nov 28 10:02 10589 Dec 03 05:42 10589 Dec 17 20:54	0°ರ 8°ರ28'48 0°≈	
min. Earth dist.	10589 Feb 04 21:33 10589 Feb 07 02:22	26°≈06'32 23°≈38'12		evening max el retrograde	10589 Dec 25 09:43 10590 Jan 08 02:35	8°≈19'54 15°≈40'52	27°29'54
minimum elong asc. node	10589 Feb 07 03:14 10589 Feb 08 14:53	23°≈35'44 21°≈57'33	0°29'29	evening set min. Earth dist.	10590 Jan 15 01:41 10590 Jan 18 20:08	13°≈11'37 9°≈56'27	0.63583 AU
morning rise	10589 Feb 13 08:55	18°≈05'35		inferior conj	10590 Jan 21 12:08	7°≈14'26	
direct	10589 Feb 16 01:51	17° ≈ 26′21		minimum elong	10590 Jan 21 15:19	7°≈06'20	
morning max el	10589 Feb 22 11:09	20° ≈ 47'57	18°02'07	asc. node	10590 Jan 26 12:04	2° ≈ 52'18	
	10589 Mar 01 14:32	0°) €		morning rise	10590 Jan 28 07:01	1° ≈ 57'06	
morning set	10589 Mar 12 14:19	17° ∺ 38'15		direct	10590 Jan 30 16:31	1° ≈ 29'05	
desc. node	10589 Mar 14 09:00	20° ¥ 32'53 0° Y		morning max el	10590 Feb 06 04:47	4°≈50'31	17°47'49
	10589 Mar 20 04:44	00.4.		morning set	10590 Feb 22 15:43 10590 Feb 22 17:20	29° ≈ 53'02 0° 升	
superior conj	10589 Mar 27 03:03	11° Y '03'10	-1°25'41	desc. node	10590 Mar 01 05:45	11° ∺ 06'27	
minimum elong	10589 Mar 26 18:05	10° Y 27'45		dese. Hode	10370 17141 01 03.13	11 7(0027	
max. Earth dist.	10589 Mar 30 07:17	16° Ƴ 03'11	1.45500 AU	superior conj	10590 Mar 07 06:04	21° ¥ 05′00	-0°44'00
	10589 Apr 08 06:15	9° 8		minimum elong	10590 Mar 07 01:23	20°) 45′51	0°43'11
evening rise	10589 Apr 12 06:02	6° 8 10'08			10590 Mar 12 18:46	0° Υ	
greatest brilliancy	10589 Apr 25 15:15	26° 8 34'17	-0.7m	max. Earth dist.	10590 Mar 13 02:18	0° Υ 30'00	1.44653 AU
evening max el	10589 Apr 27 23:23 10589 May 07 08:32	0°Ⅱ 12°Ⅱ00'32	10024140	evening rise	10590 Mar 22 17:32 10590 Apr 01 07:02	15° Y 32'24 0° と	
asc. node	10589 May 07 08:32 10589 May 07 12:50	12 H 00 32	19 3449	evening max el	10590 Apr 01 07:02 10590 Apr 20 10:00	25° 8 43'30	20°36'33
retrograde	10589 May 14 14:45	16° Ⅱ 07'43		asc. node	10590 Apr 24 10:01	29° 8 04'35	20 3033
evening set	10589 May 18 07:05	14° Ⅱ 48'41			10590 Apr 26 05:18	0° I I	
inferior conj	10589 May 23 16:06	8° Ⅱ 53'44	3°17'50	retrograde	10590 Apr 28 13:32	0° Ⅲ 28′04	
minimum elong	10589 May 23 15:59	8° Ⅱ 54'06	3°17'20		10590 Apr 30 19:09	30° ₹ 8	
min. Earth dist.	10589 May 24 20:56	7° Ⅱ 18'14	0.67195 AU	evening set	10590 May 02 15:19	28° 8 53'15	
morning rise	10589 May 29 00:33 10589 Jun 02 20:22	2° Ⅱ 33'28 30°Ŗ ႘		inferior conj	10590 May 07 22:11	22° 8 45'22	3°10'36 3°10'05
direct	10589 Jun 02 20:22 10589 Jun 04 00:41	29° 8 54'16		minimum elong min. Earth dist.	10590 May 07 21:04 10590 May 08 12:58	22° 8 49'11	0.68122 AU
ancet	10589 Jun 05 05:47	0°II		morning rise	10590 May 13 02:36	16° 8 27'56	0.00122710
desc. node	10589 Jun 10 09:29	2° Ⅱ 12'56		direct	10590 May 18 14:18	14° 8 02'01	
morning max el	10589 Jun 16 06:03	7° Ⅱ 13'35	25°30'08	desc. node	10590 May 28 06:27	19° 8 17'40	
	10589 Jul 03 23:17	0ං ම		morning max el	10590 May 29 15:43	20° 8 38'51	24°03'10
morning set	10589 Jul 22 07:21	0° Ω 06'30			10590 Jun 06 16:21	0°П	
F 4 F 4	10589 Jul 22 05:55	0°N	1 26007 ATT		10590 Jun 27 04:17	0°95	
max. Earth dist.	10589 Jul 25 23:18	6° Ω 52'50	1.36087 AU	morning set max. Earth dist.	10590 Jul 04 03:19 10590 Jul 07 20:59	11° © 35'37 18° © 08'01	1.38286 AU
superior conj	10589 Aug 01 00:31	18° Ω 38'25	-0°24'01	max. Bartii dist.	10590 Jul 14 08:05	0°Ω	1.50200710
minimum elong	10589 Aug 01 02:01	18° Ω 45'52	0°24'06				
asc. node	10589 Aug 03 12:11	23° Ω 39'04		superior conj	10590 Jul 15 03:29	1° Ω 31'57	-0°57'16
	10589 Aug 06 14:45	0° m)		minimum elong	10590 Jul 15 07:19	1° Ω 50′09	0°57'06
evening rise	10589 Aug 09 01:24	5° Mp 00'10		asc. node	10590 Jul 21 09:04	13° Ω 38'19	
	10589 Aug 23 06:02	0∘ ⊽	10957150	evening rise	10590 Jul 24 01:27	18° Ω 55'39	
evening max el retrograde	10589 Aug 26 16:05 10589 Sep 06 00:59	3° ♀ 55'42 9° ♀ 04'46	19°57'59	evening max el	10590 Jul 29 19:59 10590 Aug 09 11:02	0° Mp 15° Mp 38'27	18°59'47
desc. node	10589 Sep 06 07:45	9° ₾ 04'33		retrograde	10590 Aug 18 05:11	20° m/00'16	10 37 47
evening set	10589 Sep 07 22:46	8° ♀ 55'04		evening set	10590 Aug 20 02:20	19° m) 48'58	
inferior conj	10589 Sep 16 22:09	4° ≙ 54'54	-3°12'57	desc. node	10590 Aug 24 05:02	18° m 14'59	
minimum elong	10589 Sep 16 13:42	5° ≙ 07'41	3°10'00	inferior conj	10590 Aug 28 10:23	15° m 33'22	
min. Earth dist.	10589 Sep 18 19:01	3° 2 47'06	0.55062 AU	minimum elong	10590 Aug 28 06:59	15° mp 39'17	
morning rise	10589 Sep 25 03:16	0° ჲ 41'13		min. Earth dist.	10590 Aug 31 08:44	13° Mp 31'24	0.56387 AU
direct	10589 Sep 28 04:17 10589 Sep 29 18:41	30° ዪ ሺ		morning rise direct	10590 Sep 05 08:28 10590 Sep 10 19:03	10° my 43'12 9° my 33'24	
direct	10589 Sep 29 18:41 10589 Oct 01 08:54	29°الا 34°17 0° Ω		morning max el	10590 Sep 10 19:03 10590 Sep 25 00:15	16° My 51'18	25°59'22
morning max el	10589 Oct 01 08:34 10589 Oct 13 11:25	ი — 6° ჲ 38'40	24°20'03		10590 Oct 05 18:59	0∘ ⊽	
<i>S</i>	10589 Oct 30 05:06	0° M		asc. node	10590 Oct 17 09:37	19° ≙ 50′02	

morning max el	10592 Aug 18 20:48	8° Ω 57'21	27°52'10		10593 Aug 08 21:23	0°N	
morning max er	10592 Aug 18 20.48 10592 Sep 04 01:00	0°M)	27 32 19		10593 Aug 08 21:23 10593 Aug 28 03:21	0° m y	
asc. node	10592 Sep 04 01:00 10592 Sep 20 03:16	29° Mp 16'48		morning set	10593 Sep 04 11:32	14° Mp 05'43	
asc. node	10592 Sep 20 03:10 10592 Sep 20 11:36	0° Ω		asc. node	10593 Sep 07 00:04	19° m) 16'42	
morning set	10592 Sep 20 13:28	0° 亞 09'39		max. Earth dist.	10593 Sep 07 00:04 10593 Sep 09 17:24	25° m) 02'23	1.32209 AU
max. Earth dist.	10592 Sep 26 13:13	13° ⊆ 02'18	1.31584 AU	max. Latin dist.	10373 Бер 07 17.24	23 1100223	1.32207 AC
max. Lattii dist.	10372 Sep 20 13.13	13 -02 16	1.51504 AC	superior conj	10593 Sep 12 03:36	0° ユ 17'12	0°49'13
superior conj	10592 Sep 27 19:11	15° ≏ 47'50	1°09'46	minimum elong	10593 Sep 12 03:36	0° ⊆ 06'16	0°48'48
minimum elong	10592 Sep 27 16:56	15° Ω 35'25	1°09'31	g	10593 Sep 12 00:27	0∘ ⊽	0 10 10
	10592 Oct 04 06:00	0°M		evening rise	10593 Sep 18 23:54	15° ₽ 13'03	
evening rise	10592 Oct 04 12:31	0°M35'07		evening rise	10593 Sep 26 06:43	0°M	
evening noe	10592 Oct 20 09:10	0° ∡ 7		desc. node	10593 Oct 10 18:26	21°M50'28	
desc. node	10592 Oct 23 21:12	5° х 00′12		evening max el	10593 Oct 13 01:56	24°M14'04	23°50'41
evening max el	10592 Oct 31 14:26	13° ∡ ′54'27	25°26'07		10593 Oct 21 11:32	0° ₹	
retrograde	10592 Nov 14 11:35	20°×753'38	20 20 07	retrograde	10593 Oct 26 15:48	1° × 701'04	
evening set	10592 Nov 20 10:24	19° ∡ 32'32		evening set	10593 Oct 31 08:33	0° х 12'54	
min. Earth dist.	10592 Nov 25 02:40	16° ₹ '53'52	0.57434 AU		10593 Oct 31 23:15	30°RM	
inferior conj	10592 Nov 28 00:33	14° × 755'01		min. Earth dist.	10593 Nov 06 12:20		0.55773 AU
minimum elong	10592 Nov 28 07:39	14° √ 42'52		inferior conj	10593 Nov 08 14:04	25°M58'52	
morning rise	10592 Dec 06 07:12	10° х 39'32		minimum elong	10593 Nov 08 15:39	25°M56'30	
direct	10592 Dec 08 14:19	10° х 23′39		morning rise	10593 Nov 17 00:40	22°ML03'19	
asc. node	10592 Dec 17 03:23	14° ∡ °20'47		direct	10593 Nov 19 18:31	21°M44'20	
morning max el	10592 Dec 17 12:17	14° √ 41'49	18°58'31	morning max el	10593 Nov 30 03:22	26°M39'06	20°05'17
S	10592 Dec 28 03:14	5°0		C	10593 Dec 03 05:24	0° ∡ ¹	
morning set	10593 Jan 03 01:16	11° る 18'26		asc. node	10593 Dec 04 00:24	0° ∡ 59'28	
S				morning set	10593 Dec 18 06:39	25° х 54'40	
superior conj	10593 Jan 11 11:05	27° る 45'47	1°01'49	3	10593 Dec 20 06:36	0°ਰ	
minimum elong	10593 Jan 11 14:10	28° පි 00'33	1°01'53				
	10593 Jan 12 15:19	0° ≈		superior conj	10593 Dec 25 23:04	11° る 34'52	1°21'47
max. Earth dist.	10593 Jan 18 10:15	10° ≈ 38'23	1.39048 AU	minimum elong	10593 Dec 26 01:41		1°22'03
desc. node	10593 Jan 19 20:12	13° ≈ 08'39		max. Earth dist.	10593 Dec 31 17:04	22° る 47'30	1.36873 AU
evening rise	10593 Jan 22 06:45	17° ≈ 22'33		evening rise	10594 Jan 04 11:27	29° る 45'12	
	10593 Jan 29 22:43	0° ∀		•	10594 Jan 04 14:44	0° ≈	
	10593 Feb 20 03:35	0° Y		desc. node	10594 Jan 06 17:05	3° ≈ 44'10	
evening max el	10593 Feb 26 11:52	7° Y °03'08	24°29'01		10594 Jan 23 04:47	0° ∀	
retrograde	10593 Mar 09 23:19	13° Y '45'52		evening max el	10594 Feb 09 01:11	20° ¥ 52'42	25°42'17
evening set	10593 Mar 15 10:54	11° Y ′28′26		retrograde	10594 Feb 21 10:44	27°) 59'48	
asc. node	10593 Mar 15 01:43	11° Y '47'20		evening set	10594 Feb 27 10:28	25°) 32′13	
min. Earth dist.	10593 Mar 20 01:14	6° Y 14'03	0.68202 AU	asc. node	10594 Mar 01 22:57	23°) €01'48	
inferior conj	10593 Mar 20 23:39	4° Y 58'59	1°47'47	min. Earth dist.	10594 Mar 03 17:49	20°) 52′53	0.67385 AU
minimum elong	10593 Mar 20 21:35	5° Y 05'56	1°47'06	inferior conj	10594 Mar 05 04:09	19°) €03'54	1°01'25
	10593 Mar 25 03:35	30° ₹		minimum elong	10594 Mar 05 02:43	19°) 08′28	1°01'01
morning rise	10593 Mar 26 08:23	28° ¥ 59′21		morning rise	10594 Mar 10 19:28	13°) 13′16	
direct	10593 Mar 30 04:34	27° ¥ 34'58		direct	10594 Mar 14 03:54	12° ∺ 08'57	
	10593 Apr 04 17:13	0° Y		morning max el	10594 Mar 20 23:49	15° ¥ 52′06	18°59'29
morning max el	10593 Apr 06 17:09	1° Y '47'42	19°57'01		10594 Mar 31 19:56	0° Y	
desc. node	10593 Apr 17 21:01	15° Y 57'05		greatest brilliancy	10594 Apr 03 13:24	4° Y 05'53	-0.8m
	10593 Apr 27 08:54	0°B		desc. node	10594 Apr 04 17:46	5° Ƴ 53'50	
morning set	10593 May 03 15:50	9° 8 35'56		morning set	10594 Apr 12 20:52	18° Y ′26′17	
max. Earth dist.	10593 May 14 08:59	26° 8 21'25	1.44330 AU		10594 Apr 20 07:23	0° 8	
	10593 May 16 15:40	Π °0		max. Earth dist.	10594 Apr 27 01:34	10° 8 33'35	1.45358 AU
superior conj	10593 May 19 16:59	4° Ⅱ 56'12		superior conj	10594 Apr 29 08:32	14° 8 09'39	
minimum elong	10593 May 19 19:30	5° Ⅱ 06′27	2°12'07	minimum elong	10594 Apr 29 03:46	13° 8 50'51	2°09'12
evening rise	10593 Jun 01 23:05	27° Ⅱ 05'46			10594 May 09 07:13	$\Pi^{\circ}0$	
	10593 Jun 03 15:50	0 \circ		evening rise	10594 May 14 06:31	8° Ⅲ 03'15	
asc. node	10593 Jun 10 23:59	12° © 20'31			10594 May 28 01:38	0 \circ	
evening max el	10593 Jun 19 17:24	24° © 17'57	18°07'42	asc. node	10594 May 28 21:03	1° © 09'50	
retrograde	10593 Jun 26 02:29	27° © 38'13		evening max el	10594 Jun 03 06:22	7° 5 49'35	18°28'00
evening set	10593 Jun 28 21:38	26° © 57'54		retrograde	10594 Jun 09 17:11	11° © 18'34	
inferior conj	10593 Jul 05 02:09	21° 5 43'11	2°32'05	evening set	10594 Jun 12 20:11	10° © 23'57	
minimum elong	10593 Jul 05 04:46	21° © 36'07	2°30'57	inferior conj	10594 Jun 18 14:22	4° 9 52'18	3°02'52
min. Earth dist.	10593 Jul 07 20:46	18° © 45'13	0.62825 AU	minimum elong	10594 Jun 18 16:06	4° 5 47'09	3°02'05
morning rise	10593 Jul 11 10:07	15° © 32'42		min. Earth dist.	10594 Jun 20 18:43	2° © 17'03	0.64821 AU
desc. node	10593 Jul 14 20:41	13° © 37'54			10594 Jun 22 21:12	30°RⅡ	
direct	10593 Jul 18 03:18	13° © 02'53		morning rise	10594 Jun 24 11:01	28° Ⅲ 33'26	
morning max el	10593 Aug 01 04:06	21° © 05'11	27°52'35	direct	10594 Jul 01 01:04	25° Ⅱ 51'29	

desc. node	10504 Jul 01 17:49	25° ∏ 53'08		minimum alana	10505 Jun 02 12:21	18° ∏ 20'16	2015/55
desc. node	10594 Jul 01 17:48 10594 Jul 10 09:38	25 π 5508		minimum elong min. Earth dist.	10595 Jun 02 12:21 10595 Jun 04 01:08	16° П 22'19	0.66448 AU
morning max el	10594 Jul 14 14:29	3°\$549'02	27017145	morning rise	10595 Jun 07 23:50	10 П 22 19 12° П 00'56	0.00448 AU
morning max ci	10594 Aug 03 08:24	0°Ω	2/1/43	direct	10595 Jun 14 06:01	9° Ⅱ 17'40	
morning set	10594 Aug 19 00:36	27° Ω 34'05		desc. node	10595 Jun 18 14:51	10° Ⅲ 23'17	
morning set	10594 Aug 20 06:20	0° m)		morning max el	10595 Jun 27 01:16	16° I I56'18	26°15'04
max. Earth dist.	10594 Aug 23 13:35	6° Mp 39'47	1.33333 AU	morning max cr	10595 Jul 07 21:59	0°95	20 13 04
asc. node	10594 Aug 24 20:53	9° my 21'38	1.55555710		10595 Jul 27 06:25	0°Ω	
ase. Houe	10374 Mug 24 20.33) iig 2130		morning set	10595 Aug 02 01:16	10° Ω 25'17	
superior conj	10594 Aug 27 07:23	14° m) 29'16	0°23'53	max. Earth dist.	10595 Aug 05 23:08	17° Ω 52'30	1.34952 AU
minimum elong	10594 Aug 27 06:13	14° m) 23'04	0°23'28	max. Dartii dist.	10090 Hug 00 25.00	17 003230	1.5 1952 110
evening rise	10594 Sep 03 10:56	29° m) 47'11	0 23 20	superior conj	10595 Aug 11 04:01	28° Ω 17'00	-0°05'36
e vennig rise	10594 Sep 03 13:21	0° 0		minimum elong	10595 Aug 11 04:21	28° Ω 18'43	
	10594 Sep 20 16:17	0°M		behind sun begin	10595 Aug 10 22:45	27°Ω50'04	0 00 01
evening max el	10594 Sep 24 14:00	4°M21'44	22°10'32	behind sun end	10595 Aug 11 09:57	28° Ω 47'25	
desc. node	10594 Sep 27 15:41	7°ML01'49	22 1032	asc. node	10595 Aug 11 17:42	29° Ω 27'11	
retrograde	10594 Oct 07 08:42	10°M43'32			10595 Aug 12 00:04	0° m)	
evening set	10594 Oct 10 13:57	10°M20'31		evening rise	10595 Aug 18 19:35	14° Mp 11'11	
inferior conj	10594 Oct 19 11:19	6°M20'50	-5°27'33		10595 Aug 26 21:38	0∘ <u>ಹ</u>	
minimum elong	10594 Oct 19 04:45	6°M30'04	5°26'21	evening max el	10595 Sep 06 11:49	14° £ 53'27	20°41'05
min. Earth dist.	10594 Oct 18 19:33	6°M43'00	0.54777 AU	desc. node	10595 Sep 14 12:57	20° ₽ 03'26	
morning rise	10594 Oct 27 21:05	2°M33'50		retrograde	10595 Sep 17 20:30	20° ₽ 31'39	
direct	10594 Oct 31 06:43	2°ML08'08		evening set	10595 Sep 20 00:23	20° Ω 20'16	
morning max el	10594 Nov 12 04:56	7°M46'12	21°33'54	inferior conj	10595 Sep 29 03:33	16° Ω 24'22	-4°13'41
asc. node	10594 Nov 20 21:22	18°MJ38'44	21 33 0 .	minimum elong	10595 Sep 28 17:40	16° ₽ 38'33	4°10'44
ase. noue	10594 Nov 27 09:16	0° ∡ 7		min. Earth dist.	10595 Sep 30 03:50	15° ≏ 49'28	0.54681 AU
morning set	10594 Dec 02 16:08	10° × 7'40'13		morning rise	10595 Oct 07 10:46	12° ≏ 25'42	0.5 1001 710
morning sec	10371 BCC 02 10.00	10 % 10 15		direct	10595 Oct 11 14:52	11° ≏ 48'20	
superior conj	10594 Dec 09 21:06	25° х 51'46	1°34'07	morning max el	10595 Oct 24 19:47	18° ♀ 10'49	23°18'04
minimum elong	10594 Dec 09 22:41	26°×7'00'01	1°34'33	morning mun vi	10595 Nov 03 10:23	0°M	25 10 0 .
minimum ciong	10594 Dec 11 21:05	0°중	1 3 1 3 3	asc. node	10595 Nov 07 18:17	7° ML 03'39	
max. Earth dist.	10594 Dec 14 04:28	4° ろ 40'50	1.34928 AU	morning set	10595 Nov 17 03:36	25°M28'14	
evening rise	10594 Dec 18 09:01	12° る 51'30	1.5 .5 20 110	morning sec	10595 Nov 19 06:19	0° ⊼	
desc. node	10594 Dec 24 14:02	24° る 10'26				• •	
acoc. noue	10594 Dec 28 00:05	0°≈		superior conj	10595 Nov 24 01:59	10° ∡ ′26′02	1°39'29
	10595 Jan 18 05:30	0° ₩		minimum elong	10595 Nov 24 02:21	10° х 28'04	1°39'58
evening max el	10595 Jan 22 14:34	4°) (36'41	26°41'39	max. Earth dist.	10595 Nov 26 23:31	16° х 36′30	1.33363 AU
retrograde	10595 Feb 04 16:51	11° ¥ 57'06		evening rise	10595 Dec 01 19:40	26° х 31′21	
evening set	10595 Feb 11 03:42	9°) 23'39		3	10595 Dec 03 14:13	0°ප	
min. Earth dist.	10595 Feb 15 05:06	5°) 18'37	0.66180 AU	desc. node	10595 Dec 11 11:02	14° る 21'30	
asc. node	10595 Feb 16 20:11	3° ¥ 23'17			10595 Dec 21 08:26	0° ≈	
inferior conj	10595 Feb 17 03:19	3° ¥ 02'06	0°05'51	evening max el	10596 Jan 05 03:33	18° ≈ 05'38	27°20'03
minimum elong	10595 Feb 17 03:09	3° ¥ 02'36	0°06'04	retrograde	10596 Jan 18 16:53	25° ≈ 29'07	
transit middle	10595 Feb 17 03:09	3° ¥ 02'36	0°06'04	evening set	10596 Jan 25 12:28	22° ≈ 56'13	
transit begin	10595 Feb 17 00:26	3° ¥ 10'38		min. Earth dist.	10596 Jan 29 09:00	19° ≈ 23'37	0.64615 AU
transit end	10595 Feb 17 05:52	2° ¥ 54'34		inferior conj	10596 Jan 31 18:45	16° ≈ 47'54	-0°58'33
	10595 Feb 19 20:20	30° R ≈		minimum elong	10596 Jan 31 20:32	16° ≈ 43'04	0°57'24
morning rise	10595 Feb 23 03:41	27° ≈ 22'24		asc. node	10596 Feb 03 17:23	13° ≈ 48'31	
direct	10595 Feb 26 01:44	26° ≈ 35'10		morning rise	10596 Feb 07 06:22	11° ≈ 21'31	
morning max el	10595 Mar 04 12:49	0° ∺ 01'29	18°18'12	direct	10596 Feb 09 19:45	10° ≈ 47'40	
-	10595 Mar 04 12:12	0° ∀		morning max el	10596 Feb 16 05:34	14° ≈ 08'18	17°53'53
desc. node	10595 Mar 22 14:31	26° ∺ 08'41		-	10596 Feb 27 11:46	0° ∀	
morning set	10595 Mar 24 02:09	28°) 31′16		morning set	10596 Mar 04 12:39	10°) 02′22	
	10595 Mar 25 00:21	$0^{\circ}\Upsilon$		desc. node	10596 Mar 08 11:17	16°) 36′24	
					10596 Mar 16 16:04	$0^{\circ}\Upsilon$	
superior conj	10595 Apr 08 14:39	23° Y ′04'54	-1°46'10				
minimum elong	10595 Apr 08 05:14	22° Y 28'01	1°45'30	superior conj	10596 Mar 18 05:51	2° Y 31'28	-1°08'32
max. Earth dist.	10595 Apr 09 20:47	25° Y ′02'47	1.45659 AU	minimum elong	10596 Mar 17 22:23	2° Y ′01'39	1°07'32
	10595 Apr 13 00:54	0°8		max. Earth dist.	10596 Mar 22 16:06	9° Y ′32'59	1.45218 AU
evening rise	10595 Apr 24 14:19	18° 8 03'45		evening rise	10596 Apr 03 05:13	27° Y ′28'54	
ū	10595 May 02 05:39	0°II		-	10596 Apr 04 20:39	0°8	
greatest brilliancy	10595 May 05 08:26	4° Ⅱ 48'26	-0.8m	greatest brilliancy	10596 Apr 18 02:02	19° 8 53'13	-0.6m
asc. node	10595 May 15 18:09	19° Ⅲ 23'23		-	10596 Apr 25 09:27	0°II	
evening max el	10595 May 17 16:02	21° Ⅲ 28′26	19°05'47	evening max el	10596 Apr 29 20:46	5° Ⅱ 10'47	19°59'32
retrograde	10595 May 24 13:09	25° Ⅱ 18'46		asc. node	10596 May 01 15:19	6° Ⅱ 50'01	
evening set	10595 May 28 00:20	24° Ⅱ 08'57		retrograde	10596 May 07 11:30	9°Ⅱ33'09	
inferior conj	10595 Jun 02 11:48	18° Ⅲ 22'04	3°16'28	evening set	10596 May 11 07:39	8° Ⅱ 07'36	
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	1050CM 16 15 27	201107105	2017100	1	10507 4 10 12 22	220 🗸 1 5100	
inferior conj	10596 May 16 15:27		3°16'09	asc. node	10597 Apr 18 12:32	23° 8 15'09	
minimum elong min. Earth dist.	10596 May 16 14:53	2° Ⅱ 08'59 0° Ⅱ 49'58	3°15'40 0.67640 AU	retrograde	10597 Apr 21 10:03	23° 8 56'06	
min. Earth dist.	10596 May 17 14:17		0.67640 AU	evening set	10597 Apr 25 16:09	22° 8 14'46	2004112
	10596 May 18 05:18	30°R 8		inferior conj	10597 Apr 30 22:50	16° 8 02'21	3°04'12 3°03'40
morning rise	10596 May 21 21:49 10596 May 27 16:55	25° 8 47'36 23° 8 12'53		minimum elong min. Earth dist.	10597 Apr 30 21:23 10597 May 01 08:03	16° 8 07'23 15° 8 30'24	0.68375 AU
direct desc. node	10596 May 27 16:55 10596 Jun 04 11:51	26° 8 39'44			10597 May 01 08:03 10597 May 06 02:24	9° 8 46'47	0.083/3 AU
desc. node	10596 Jun 04 11:31 10596 Jun 08 04:36	26° □ 39'44		morning rise direct	10597 May 06 02:24 10597 May 11 08:36	7° 8 28'05	
morning max el	10596 Jun 08 11:02	0 <u>П</u> 0° П 16'14	24054105	morning max el	10597 May 11 08.36 10597 May 21 20:41	13° 8 43'21	23°24'50
morning max er	10596 Jun 30 19:29	0°95	24 34 03	desc. node	10597 May 21 20.41 10597 May 22 08:48	14° 8 14'19	23 24 30
morning set	10596 Jul 14 09:12	22°\$28'26		desc. Hode	10597 Jun 04 00:35	0° Ⅱ	
max. Earth dist.	10596 Jul 17 23:19	28°957'07	1.36990 AU		10597 Jun 04 00:53	0°छ	
max. Lartii dist.	10596 Jul 18 12:57	0°Ω	1.30990 AU	morning set	10597 Jun 25 19:10	3° 5 29'18	
	10390 Jul 16 12.37	0 06		max. Earth dist.	10597 Jun 29 20:09	10° © 24'26	1.39264 AU
superior conj	10596 Jul 24 14:32	11° Ω 33'22	-0°38'00	max. Lartii dist.	1037/Juli 27 20.07	10 32420	1.57204 AC
minimum elong	10596 Jul 24 16:59	$11^{\circ} \Omega 45'21$		superior conj	10597 Jul 07 11:04	24°508'15	-1°11'17
asc. node	10596 Jul 28 14:34	19° Ω 30'03	0 37 30	minimum elong	10597 Jul 07 15:52	24°930'37	
evening rise	10596 Aug 01 23:35	28° Ω 19'18		minimum clong	10597 Jul 10 13:50	2 4 3 30 37	1 11 03
evening rise	10596 Aug 02 19:40	0° m)		asc. node	10597 Jul 15 11:27	9°Ω25'42	
evening max el	10596 Aug 18 23:29	26° m) 10'05	19°30'40	evening rise	10597 Jul 16 20:00	12° Ω 03'15	
evening max er	10596 Aug 24 06:43	0° ⊽	17 30 40	evening rise	10597 Jul 26 17:06	0° m)	
retrograde	10596 Aug 28 15:08	ა — 0° ჲ 57'35		evening max el	10597 Aug 01 23:20	-•	18°41'31
evening set	10596 Aug 30 11:23	0° ჲ 47'52		retrograde	10597 Aug 10 03:03	12° Mp 16'17	10 41 51
desc. node	10596 Aug 31 10:14	0° ೨ 35'35		evening set	10597 Aug 10 03:05	12° m) 02'41	
desc. Hode	10596 Sep 02 05:37	30°R.M)		desc. node	10597 Aug 12 02:30	8° Mp 56'45	
inferior conj	10596 Sep 08 05:18	26° m/42'31	-2°24'34	inferior conj	10597 Aug 20 02:29	7° m) 38'40	-0°33'15
minimum elong	10596 Sep 07 22:51	26° m 52'49		minimum elong	10597 Aug 20 01:08		0°32'57
min. Earth dist.	10596 Sep 10 15:05	25° m 10'30	0.55536 AU	min. Earth dist.	10597 Aug 23 06:55	5° Mp 17'22	0.57167 AU
morning rise	10596 Sep 16 07:59	22° m/14'03	0.33330710	morning rise	10597 Aug 27 20:15	2° m/32'51	0.57107110
direct	10596 Sep 21 07:54	21° m/ 18'02		direct	10597 Sep 02 14:38	1° m)11'09	
morning max el	10596 Oct 05 06:59	28° m) 18'03	25°04'10	morning max el	10597 Sep 16 21:48	8° mp 39'31	26°34'45
moning man vi	10596 Oct 06 23:55	0° ⊽	20 0.10	morning man vi	10597 Oct 03 00:11	0∘ ত	20 3
asc. node	10596 Oct 24 15:10	26° ♀ 03'03		asc. node	10597 Oct 11 12:01	15° £ 27'52	
	10596 Oct 26 16:15	0°IIL		morning set	10597 Oct 16 01:38	24° ♀ 52'40	
morning set		0°ጤ 10°ጤ13'52		morning set	10597 Oct 16 01:38 10597 Oct 18 10:31	24°₽52'40 0°M	
morning set	10596 Oct 26 16:15 10596 Oct 31 15:19	0°IL 10°IL13'52		morning set	10597 Oct 16 01:38 10597 Oct 18 10:31		
morning set			1°38'30	morning set superior conj			1°31'39
-	10596 Oct 31 15:19	10°M13'52	1°38'30 1°38'53	-	10597 Oct 18 10:31	0° M	1°31'39 1°31'50
superior conj	10596 Oct 31 15:19 10596 Nov 07 11:10	10°M13'52 25°M10'08		superior conj	10597 Oct 18 10:31 10597 Oct 22 22:33	0° M 9° M 57'42	
superior conj minimum elong	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25	10°M13'52 25°M10'08 25°M06'03	1°38'53	superior conj minimum elong	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56	0°M 9°M57'42 9°M48'42	1°31'50
superior conj minimum elong	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15	10°M13'52 25°M10'08 25°M06'03 28°M44'20	1°38'53	superior conj minimum elong max. Earth dist.	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14	0°M- 9°M-57'42 9°M-48'42 11°M-02'41	1°31'50
superior conj minimum elong max. Earth dist.	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09	10°M13'52 25°M10'08 25°M06'03 28°M44'20 0°✓	1°38'53	superior conj minimum elong max. Earth dist.	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39	0°M 9°M57'42 9°M48'42 11°M02'41 24°M58'32	1°31'50
superior conj minimum elong max. Earth dist.	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09	10° m 13'52 25° m 10'08 25° m 06'03 28° m 44'20 0° ₹ 10° ₹ 36'11	1°38'53	superior conj minimum elong max. Earth dist. evening rise	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46	0°M. 9°M.57'42 9°M.48'42 11°M.02'41 24°M.58'32 0° ✓	1°31'50
superior conj minimum elong max. Earth dist. evening rise	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09 10596 Nov 24 21:07	10°M13'52 25°M10'08 25°M06'03 28°M44'20 0° ✓ 10° ✓ 36'11 0°	1°38'53	superior conj minimum elong max. Earth dist. evening rise	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46 10597 Nov 14 05:14	0°M. 9°M.57'42 9°M.48'42 11°M.02'41 24°M.58'32 0° ♂ 23° ♂ 29'25	1°31'50 1.31609 AU
superior conj minimum elong max. Earth dist. evening rise	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09 10596 Nov 24 21:07 10596 Nov 27 08:06	25° 110'08 25° 110'08 25° 110'08 28° 1144'20 0° 🖈 10° ₹36'11 0° ₹ 4° ₹10'45	1°38'53 1.32250 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46 10597 Nov 14 05:14 10597 Nov 18 13:29	0°M. 9°M.57'42 9°M.48'42 11°M.02'41 24°M.58'32 0° 23° √29'25 0° ©	1°31'50 1.31609 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09 10596 Nov 24 21:07 10596 Nov 27 08:06 10596 Dec 16 10:42	10°M13'52 25°M10'08 25°M06'03 28°M44'20 0° ✓ 10° ✓ 36'11 0° ← 4° ✓ 10'45 0° ≈	1°38'53 1.32250 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46 10597 Nov 14 05:14 10597 Nov 18 13:29 10597 Nov 29 20:53	0°M. 9°M.57'42 9°M.48'42 11°M.02'41 24°M.58'32 0° 23° \$\tilde{x}^2 29'25 0° 13° \$\tilde{5}29'58	1°31'50 1.31609 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09 10596 Nov 24 21:07 10596 Nov 27 08:06 10596 Dec 16 10:42 10596 Dec 17 14:33	25°M10'08 25°M06'03 28°M44'20 0° ✓ 10° ✓ 36'11 0° ✓ 4° づ10'45 0° ≈ 1° ≈07'51	1°38'53 1.32250 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46 10597 Nov 14 05:14 10597 Nov 18 13:29 10597 Nov 29 20:53 10597 Dec 13 18:27	9° M.57'42 9° M.48'42 11° M.02'41 24° M.58'32 0° Å 23° Å 29'25 0° ♂ 13° ♂ 29'58 20° ♂ 41'18	1°31'50 1.31609 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09 10596 Nov 24 21:07 10596 Nov 27 08:06 10596 Dec 16 10:42 10596 Dec 17 14:33 10596 Dec 31 09:50	25°M10'08 25°M06'03 28°M44'20 0° ₹ 10° ₹ 36'11 0° ₹ 4° ₹ 10'45 0° ≈ 1° ≈ 07'51 8° ≈ 26'42	1°38'53 1.32250 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46 10597 Nov 14 05:14 10597 Nov 18 13:29 10597 Nov 29 20:53 10597 Dec 13 18:27 10597 Dec 20 16:54	9°M.57'42 9°M.48'42 11°M.02'41 24°M.58'32 0°ズ 23°ズ29'25 0°उ 13°る29'58 20°る41'18 18°る34'28	1°31'50 1.31609 AU 27°08'23 0.60688 AU
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superior conj 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	10596 Oct 31 15:19 10596 Nov 07 11:10 10596 Nov 07 10:25 10596 Nov 09 02:15 10596 Nov 09 16:09 10596 Nov 14 16:09 10596 Nov 24 21:07 10596 Nov 27 08:06 10596 Dec 16 10:42 10596 Dec 17 14:33 10596 Dec 31 09:50 10597 Jan 07 10:01 10597 Jan 11 03:33 10597 Jan 13 23:37 10597 Jan 14 03:55 10597 Jan 14 05:29 10597 Jan 20 14:35 10597 Jan 21 00:08 10597 Jan 21 00:08	25°M10'08 25°M06'03 28°M44'20 0°ズ 10°ズ36'11 0°G 4°G10'45 0°≈ 1°≈07'51 8°≈26'42 6°≈02'22 2°≈58'25 0°≈14'14 0°≈03'48 30°RG 25°G13'06 25°G04'05 24°G39'45 28°G04'26 0°≈	1°38'53 1.32250 AU 27°30'39 0.62753 AU -2°10'22 2°08'09	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	10597 Oct 18 10:31 10597 Oct 22 22:33 10597 Oct 22 20:56 10597 Oct 23 10:14 10597 Oct 29 19:39 10597 Nov 01 05:46 10597 Nov 14 05:14 10597 Nov 18 13:29 10597 Nov 29 20:53 10597 Dec 13 18:27 10597 Dec 20 16:54 10597 Dec 24 11:26 10597 Dec 27 14:33 10597 Dec 27 14:33 10597 Dec 27 21:24 10598 Jan 04 04:30 10598 Jan 06 08:00 10598 Jan 13 14:01 10598 Jan 25 18:23 10598 Jan 29 04:41	9°M.57'42 9°M.48'42 11°M.02'41 24°M.58'32 0°ズ 23°ズ29'58 20°云41'18 18°云34'28 15°云51'40 13°云12'24 12°云57'50 8°云21'57 8°云03'32 8°云09'04 11°云41'19 0°≈	1°31'50 1.31609 AU 27°08'23 0.60688 AU -3°25'57 3°23'03
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max. Earth dist.

10601 Dec 07 12:19

27°**х** 03′49

1.34211 AU

10601 Jan 21 08:34

0°**)**€

evening rise 10601 Dec 08 22:59 0°ප evening rise 10601 Dec 11 23:07 5°556'35 desc. node 10601 Dec 19 16:21 20°506'53 10601 Dec 25 15:19 0°≈