retrograde	10600 Jan 18 03:38	20° ≏ 44'45		opposition	10606 May 01 02:22	15°M00'31	1°05'07
opposition	10600 Apr 04 11:15	18° ≏ 43'21	0°59'03	min. Earth dist.	10606 May 01 07:37	14° M 59'57	17.94091 AU
min. Earth dist.	10600 Apr 04 10:19	18° ≏ 43'27	18.33872 AU		10606 May 01 07:14	15°RM₀	
direct	10600 Jun 18 07:56	16° ≏ 43'34		direct	10606 Jul 14 19:01	12°M58'37	
evening set	10600 Sep 17 13:33	19° ≏ 52'25			10606 Sep 23 02:19	15° M ₊	
Ç	1			evening set	10606 Oct 15 02:37	16° M ₊13'44	
conjunction	10600 Oct 03 22:00	20° ♀ 50'02	0°54'06	evening see	10000 000 10 02.57	10 110 113	
minimum elong	10600 Oct 03 22:00	20° ⊆ 50'02	0°54'15	conjunction	10606 Oct 31 15:00	17°ML13'08	0°58'27
max. Earth dist.	10600 Oct 03 21:11		20.30706 AU	minimum elong	10606 Oct 31 15:00	17°ML13'08	0°58'48
			20.30700 AU	_			
morning rise	10600 Oct 20 08:50	21° Ω 48'02		max. Earth dist.	10606 Oct 31 07:49		19.90795 AU
retrograde	10601 Jan 22 19:00	25° Ω 03'19		morning rise	10606 Nov 17 04:41	18°M12'47	
opposition	10601 Apr 09 00:23	23° ≏ 01'45	1°00'56	retrograde	10607 Feb 19 10:53	21°M32'15	
min. Earth dist.	10601 Apr 09 01:37	23° Ω 01'37	18.27511 AU	opposition	10607 May 05 18:57	19°M29'25	1°04'48
direct	10601 Jun 22 18:42	21° ≏ 01'40		min. Earth dist.	10607 May 06 01:43	19° M 28'41	17.87581 AU
evening set	10601 Sep 22 05:35	24° ≏ 11'33		direct	10607 Jul 19 10:11	17° M 27'08	
				evening set	10607 Oct 19 23:43	20°M43'20	
conjunction	10601 Oct 08 14:50	25° ഫ 09'28	0°55'38				
minimum elong	10601 Oct 08 14:50	25° ≏ 09'28	0°55'49	conjunction	10607 Nov 05 12:39	21°M43'01	0°57'57
max. Earth dist.	10601 Oct 08 13:14	25° Ω 09'14	20.24250 AU	minimum elong	10607 Nov 05 12:39	21°M43'01	0°58'22
morning rise	10601 Oct 25 02:10	26° ♀ 07'44		max. Earth dist.	10607 Nov 05 04:24		19.84396 AU
retrograde	10602 Jan 27 13:30	29° Ω 23'46		morning rise	10607 Nov 22 02:47	22°M42'56	17.01570710
•		27° ⊆ 22'01	1°02'30	-		26°M03'01	
opposition	10602 Apr 13 14:02			retrograde	10608 Feb 24 08:38		100404
min. Earth dist.	10602 Apr 13 15:24		18.20960 AU	opposition	10608 May 09 12:02	24°M00'00	1°04'04
direct	10602 Jun 27 08:51	25° Ω 21'37		min. Earth dist.	10608 May 09 18:42		17.81302 AU
evening set	10602 Sep 26 22:27	28° ≏ 32'30		direct	10608 Jul 23 04:45	21°M57'22	
				evening set	10608 Oct 23 21:47	25° ™ 14'39	
conjunction	10602 Oct 13 08:17	29° ≗ 30'43	0°56'52				
minimum elong	10602 Oct 13 08:16	29° ≏ 30'43	0°57'06	conjunction	10608 Nov 09 11:16	26° M 14′38	0°57'06
max. Earth dist.	10602 Oct 13 04:56	29° ₽ 30'13	20.17614 AU	minimum elong	10608 Nov 09 11:16	26°M14'38	0°57'31
	10602 Oct 21 13:05	0° M		max. Earth dist.	10608 Nov 09 02:45	26°M₁3′20	19.78239 AU
morning rise	10602 Oct 29 20:11	0°M29'15		morning rise	10608 Nov 26 01:33	27° M L14'47	
retrograde	10603 Feb 01 05:50	3°M46'01		•	10609 Jan 22 08:53	0° ∡ ¹	
opposition	10603 Apr 18 04:27	1° M 44'04	1°03'42	retrograde	10609 Feb 28 04:06	0° ∡ ³35'27	
min. Earth dist.	10603 Apr 18 07:51		18.14266 AU		10609 Apr 06 11:32	30°RM	
mm. Earth dist.	10603 Jun 06 13:56	30°RΩ	10.14200710	opposition	10609 May 14 05:45	28°M32'19	1°02'57
direct	10603 Jul 01 20:56	29° £ 43'18		min. Earth dist.	10609 May 14 13:39		17.75297 AU
direct	10603 Jul 26 22:26	0°M		direct	10609 Jul 27 22:04	26°M29'20	17.73297 AU
evening set	10603 Oct 01 16:10	2°M55'14		evening set	10609 Oct 28 20:42	29°M47'43	
					10609 Nov 01 06:50	0° ∡ ¹	
conjunction	10603 Oct 18 02:46	3°M53'44					
minimum elong	10603 Oct 18 02:45	3°M53'44	0°58'02	conjunction	10609 Nov 14 10:33	0° ∡ 747'58	0°55'53
max. Earth dist.	10603 Oct 17 22:35	3° ™ 53'07	20.10886 AU	minimum elong	10609 Nov 14 10:33	0° ∡ ¹47'58	0°56'20
morning rise	10603 Nov 03 15:11	4°M52'34		max. Earth dist.	10609 Nov 14 00:46	0° ∡ 746′28	19.72406 AU
retrograde	10604 Feb 06 01:57	8°M10'02		morning rise	10609 Dec 01 01:12	1° ∡ ¹48'21	
opposition	10604 Apr 21 19:07	6° ™ 07'50	1°04'33	retrograde	10610 Mar 05 02:22	5° ∡ ¹09'37	
min. Earth dist.	10604 Apr 21 22:34	6° ™ 07'28	18.07510 AU	opposition	10610 May 19 00:10	3° ∡ ¹06'22	1°01'25
direct	10604 Jul 05 12:32	4°M06'42		min. Earth dist.	10610 May 19 07:57	3° ∡ ¹05'31	17.69637 AU
evening set	10604 Oct 05 10:51	7° ™ 19'41		direct	10610 Aug 01 17:53	1° ∡ 103′06	
8				evening set	10610 Nov 02 20:13	4° ∡ °22'33	
conjunction	10604 Oct 21 22:04	8°M18'30	0°58'21			2233	
minimum elong	10604 Oct 21 22:04	8°M18'30	0°58'39	conjunction	10610 Nov 19 10:35	5° ₹ ¹23'03	0°54'18
•				·			
max. Earth dist.	10604 Oct 21 16:33	8°M17'40	20.04116 AU	minimum elong	10610 Nov 19 10:35	5° ₹ 23'03	0°54'47
morning rise	10604 Nov 07 10:59	9° ™ 17'36		max. Earth dist.	10610 Nov 19 01:06		19.66918 AU
retrograde	10605 Feb 09 19:22	12°M35'44		morning rise	10610 Dec 06 01:16	6° ≯ 23'40	
opposition	10605 Apr 26 10:34	10°M33'20	1°05'02	retrograde	10611 Mar 09 23:39	9° ∡ ¹45'29	
min. Earth dist.	10605 Apr 26 15:54	10°M32'46	18.00757 AU	opposition	10611 May 23 19:19	7° ∡ ¹42'10	0°59'29
direct	10605 Jul 10 02:02	8° ጤ 31'49		min. Earth dist.	10611 May 24 04:00	7° ∡ 741'14	17.64329 AU
evening set	10605 Oct 10 06:18	11°M45'51		direct	10611 Aug 06 13:31	5° ∡ ³38'39	
				evening set	10611 Nov 07 20:51	8° ∡ ′59′10	
conjunction	10605 Oct 26 18:07	12°M44'58	0°58'34	-			
minimum elong	10605 Oct 26 18:07	12°M44'58	0°58'55	conjunction	10611 Nov 24 11:26	9° √ 59'55	0°52'22
max. Earth dist.	10605 Oct 26 11:40	12°M43'59		minimum elong	10611 Nov 24 11:26	9° √ 59'55	0°52'51
morning rise	10605 Nov 12 07:28	13°M44'20		max. Earth dist.	10611 Nov 24 00:23	9° × 758'13	19.61801 AU
	10605 Dec 04 22:56	15°M		morning rise	10611 Nov 24 00:23	11° ⋌ '00'44	17.01001 AU
retrogrado	10605 Dec 04 22.36 10606 Feb 14 16:22	17°M03'09		retrograde	10611 Dec 11 02.26 10612 Mar 13 22:37	11 x 00 44 14° x 23'04	
retrograde	10000 100 14 10.22	17 11603 09		renograde	10012 IVIAI 13 22.3/	17 7 43 04	

opposition min. Earth dist. direct	10612 May 27 14:55 10612 May 27 23:56 10612 Aug 10 10:31	12° х 19'44 12° х 18'45 10° х 15'57	0°57'09 17.59389 AU	conjunction minimum elong max. Earth dist.	10618 Dec 28 09:48 10618 Dec 28 09:48 10618 Dec 27 19:35	12°557'12 12°557'12 12°554'59	
evening set	10612 Nov 11 22:14	13° ∡ ³37'31		morning rise retrograde	10619 Jan 13 23:33 10619 Apr 17 01:32	13°පි58'55 17°පි23'04	
conjunction	10612 Nov 28 13:15	14° ∡ °38'30	0°50'05	opposition	10619 Jun 30 00:29	15° る 19'36	0°30'57
minimum elong	10612 Nov 28 13:15	14° ∡ ³38'30	0°50'37	min. Earth dist.	10619 Jun 30 12:17		17.34542 AU
max. Earth dist.	10612 Nov 28 02:32		19.57023 AU	direct	10619 Sep 13 07:00	13°る14'09	
morning rise	10612 Dec 15 04:06	15° × ⁷ 39'31		evening set	10619 Dec 16 23:11	16° る 41'07	
retrograde opposition	10613 Mar 18 21:49 10613 Jun 01 11:20	19° ∡ 02'18 16° ∡ 58'58	0°54'26	conjunction	10620 Jan 02 14:04	17° る 43'04	0°25'32
min. Earth dist.	10613 Jun 01 21:07		17.54774 AU	minimum elong	10620 Jan 02 14:05	17 343'04 17°る43'04	0°26'04
direct	10613 Aug 15 07:58	14° ₹ 54'57	17.54774210	max. Earth dist.	10620 Jan 01 23:14		19.33572 AU
evening set	10613 Nov 17 00:24	18° √ 17'31		morning rise	10620 Jan 19 03:25	18° ろ 44'48	19.000,2110
C				retrograde	10620 Apr 21 01:34	22° る 08'57	
conjunction	10613 Dec 03 15:25	19° ∡ 18'42	0°47'28	opposition	10620 Jul 03 23:55	20°る05'29	0°26'04
minimum elong	10613 Dec 03 15:26	19° ∡ 18'42	0°47'59	min. Earth dist.	10620 Jul 04 12:37	20° පි 04'06	17.32774 AU
max. Earth dist.	10613 Dec 03 02:50	19° ∡ 16'45	19.52571 AU	direct	10620 Sep 17 07:34	17° る 59'50	
morning rise	10613 Dec 20 06:24	20° ∡ 19'53		evening set	10620 Dec 21 03:43	21° පි 27'16	
retrograde	10614 Mar 23 21:42	23° х 43'05	0051100		10(01) 0(10 00	222	0001101
opposition	10614 Jun 06 08:22	21° х 39'44	0°51'20	conjunction	10621 Jan 06 18:20	22° る 29'15	0°21'04
min. Earth dist.	10614 Jun 06 18:48	21°×'38'36 19°×'35'28	17.50488 AU	minimum elong	10621 Jan 06 18:20 10621 Jan 06 04:03	22° る 29'15	0°21'35 19.32095 AU
direct evening set	10614 Aug 20 06:20 10614 Nov 22 03:07	19 x · 33 28 22° x ¹ 58'57		max. Earth dist. morning rise	10621 Jan 06 04.03	22 3 2/01 23° る 30'59	19.32093 AU
evening set	10014 1007 22 03.07	22 × 3031		retrograde	10621 Apr 26 02:43	25° る 55'03	
conjunction	10614 Dec 08 18:28	24° 尽 00′20	0°44'31	opposition	10621 Jul 08 23:34	24° ප 51'37	0°21'00
minimum elong	10614 Dec 08 18:28	24° ₹ 00'20	0°45'03	min. Earth dist.	10621 Jul 09 11:04		17.31588 AU
max. Earth dist.	10614 Dec 08 06:18	23° ∡ ′58′27	19.48439 AU	direct	10621 Sep 22 10:24	22° පි 45'50	
morning rise	10614 Dec 25 09:11	25° ∡ 01'40		evening set	10621 Dec 26 08:08	26° る 13'37	
retrograde	10615 Mar 28 22:11	28° ₹ 25'11					
opposition	10615 Jun 11 05:53	26° ₹ 21'49	0°47'53	conjunction	10622 Jan 11 22:18	27° る 15'35	0°16'27
min. Earth dist.	10615 Jun 11 16:43		17.46514 AU	minimum elong	10622 Jan 11 22:18	27° ට 15'35	0°16'57
direct	10615 Aug 25 05:22	24° 🗷 17'18		max. Earth dist.	10622 Jan 11 08:23		19.31217 AU
evening set	10615 Nov 27 06:32	27° ∡ ⁴41'39		morning rise	10622 Jan 28 10:30	28°る17'17 0°≈	
conjunction	10615 Dec 13 21:49	28° ×7 43'11	0°41'15	retrograde	10622 Feb 27 18:19 10622 May 01 02:09	0°≈ 1°≈41'14	
minimum elong	10615 Dec 13 21:49	28° x ⁷ 43'11	0°41'48	renograde	10622 Jul 05 12:10	1 ≈41 14 30°Rる	
max. Earth dist.	10615 Dec 13 07:47	28° × 43 11	19.44638 AU	opposition	10622 Jul 13 23:37	29° る 37'51	0°15'47
morning rise	10615 Dec 30 12:34	29° × ⁷ 44'40	17.1.1050110	min. Earth dist.	10622 Jul 14 11:41		17.31039 AU
S	10616 Jan 03 18:26	8°0		direct	10622 Sep 27 11:51	27° ප 32'00	
retrograde	10616 Apr 01 22:33	3° る 08'27			10622 Dec 14 13:27	0° ≈	
opposition	10616 Jun 15 04:00	1° る 05'02	0°44'06	evening set	10622 Dec 31 12:35	1° ≈ 00'02	
min. Earth dist.	10616 Jun 15 15:43		17.42893 AU				
	10616 Jul 11 06:27	30°Ŗ ⋌ ¹		conjunction	10623 Jan 17 02:16	2° ≈ 01'58	0°11'44
direct	10616 Aug 29 04:51	29° ∡ 700′16		minimum elong	10623 Jan 17 02:16	2°≈01'58	0°12'14
	10616 Oct 15 23:02	0°る 2° ろ 25124		behind sun begin behind sun end	10623 Jan 16 21:50	2°≈01'17	
evening set	10616 Dec 01 10:16	2° る 25'24		max. Earth dist.	10623 Jan 17 06:43 10623 Jan 16 12:42	2°≈02'39	19.31003 AU
conjunction	10616 Dec 18 01:42	3°₹27'05	0°37'42	morning rise	10623 Feb 02 13:54	3°≈03'36	17.51005 AC
minimum elong	10616 Dec 18 01:43	3° る 27'05		retrograde	10623 May 06 02:49	6°≈27'24	
max. Earth dist.	10616 Dec 17 12:11	3° ₹ 24'58	19.41202 AU	opposition	10623 Jul 18 23:31	4° ≈ 24'07	0°10'28
morning rise	10617 Jan 03 16:03	4° る 28'39		min. Earth dist.	10623 Jul 19 10:06	4° ≈ 22'57	17.31151 AU
retrograde	10617 Apr 06 23:38	7° る 52'37		direct	10623 Oct 02 15:27	2° ≈ 18′13	
opposition	10617 Jun 20 02:25	5°₹49'12	0°40'00	evening set	10624 Jan 05 16:57	5° ≈ 46′28	
min. Earth dist.	10617 Jun 20 14:01		17.39648 AU				
direct	10617 Sep 03 05:16	3°₹44'11		conjunction	10624 Jan 22 06:11	6°≈48'20	0°06'57
evening set	10617 Dec 06 14:28	7°る10'01		minimum elong	10624 Jan 22 06:10	6°≈48'20	0°07'25
conjunction	10617 Dec 22 05:40	8° る 11'49	0°33'52	behind sun begin behind sun end	10624 Jan 22 00:02 10624 Jan 22 12:19	6°≈47'24 6°≈49'17	
conjunction minimum elong	10617 Dec 23 05:40 10617 Dec 23 05:40	8°る11'49 8°る11'49	0°33'52 0°34'26	max. Earth dist.	10624 Jan 22 12:19 10624 Jan 21 17:35		19.31442 AU
max. Earth dist.	10617 Dec 23 03.40 10617 Dec 22 14:49		19.38175 AU	morning rise	10624 Feb 07 17:00	0 ≈40 22 7°≈49'53	17.51774 AU
morning rise	10618 Jan 08 19:49	9° る 13'28	,	retrograde	10624 May 10 02:07	11°≈13'27	
retrograde	10618 Apr 12 00:10	12° る 37'34		opposition	10624 Jul 22 23:50	9° ≈ 10′20	0°05'05
opposition	10618 Jun 25 01:21	10° る 34'07	0°35'36	min. Earth dist.	10624 Jul 23 10:53	9° ≈ 09'08	17.31913 AU
min. Earth dist.	10618 Jun 25 13:49		17.36855 AU	direct	10624 Oct 06 17:19	7° ≈ 04'29	
direct	10618 Sep 08 05:23	8° る 28'52		evening set	10625 Jan 09 21:08	10° ≈ 32'49	
evening set	10618 Dec 11 18:35	11° る 55'19					

conjunction	10625 Jan 26 09:38	11° ≈ 34'36	0°02'07	max. Earth dist.	10630 Feb 19 12:34	5° ₩ 17'22	19.45624 AU
minimum elong	10625 Jan 26 09:37	11° ≈ 34'36	0°02'34	morning rise	10630 Mar 08 03:06	6° ₩ 19'15	
behind sun begin	10625 Jan 26 02:54	11° ≈ 33'34		retrograde	10630 Jun 08 00:34	9°) 40′20	
behind sun end	10625 Jan 26 16:20	11° ≈ 35'38		opposition	10630 Aug 21 01:23	7° ∺ 38'21	
max. Earth dist.	10625 Jan 25 21:01		19.32528 AU	min. Earth dist.	10630 Aug 21 09:15		17.47497 AU
morning rise	10625 Feb 11 19:49	12° ≈ 36′02		direct	10630 Nov 05 08:08	5°) 33′14	
	10625 Mar 29 06:52	15° ≈		evening set	10631 Feb 08 14:14	8° ∺ 59'58	
retrograde	10625 May 15 03:01	15° ≈ 59'20					
	10625 Jul 02 10:32	15°R≈		conjunction	10631 Feb 24 21:53	10° 米 00′39	
desc. node	10625 Jul 05 14:32	14° ≈ 52'47		minimum elong	10631 Feb 24 21:52		0°25'46
opposition	10625 Jul 28 00:04	13°≈56'24		max. Earth dist.	10631 Feb 24 12:37		19.49457 AU
min. Earth dist.	10625 Jul 28 09:41		17.33297 AU	morning rise	10631 Mar 13 02:51	11°) €00'57	
direct	10625 Oct 11 21:15	11°≈50'38		retrograde	10631 Jun 12 21:57	14°) (21'25	0021116
	10626 Jan 09 19:56	15° ≈		opposition	10631 Aug 26 00:55	12°) 19'35	
evening set	10626 Jan 15 01:01	15° ≈ 18'59		min. Earth dist.	10631 Aug 26 08:08	12° X 18'48 10° X 14'36	17.51510 AU
agnismation	10626 Jan 31 12:56	16° ≈ 20'39	0002152	direct	10631 Nov 10 09:32 10632 Feb 13 14:54	13° X 14'36	
conjunction	10626 Jan 31 12:56	16 ≈20 39 16°≈20'39	0°02'27	evening set	10032 Feb 13 14.34	13 X 4044	
minimum elong behind sun begin	10626 Jan 31 12:36 10626 Jan 31 06:13	16°≈20'39 16°≈19'37	0.02.27	conjunction	10632 Feb 29 21:47	14°) 41'10	0920112
behind sun end	10626 Jan 31 19:39	16°≈21'40		minimum elong	10632 Feb 29 21:46	14°) (41'10	0°30'01
max. Earth dist.	10626 Jan 31 01:49		19.34197 AU	max. Earth dist.	10632 Feb 29 21:46 10632 Feb 29 14:16		19.53641 AU
morning rise	10626 Feb 16 22:11	10 ≈18 55 17°≈21'57	19.54197 AU	morning rise	10632 Mar 17 01:42	15° H 41'11	19.55041 AU
retrograde	10626 May 20 02:19	17 ≈21 57 20°≈44'55		retrograde	10632 Jun 16 19:29	19°) (4111	
opposition	10626 Aug 02 00:28	18°≈42'12	-0°05'44	opposition	10632 Aug 30 00:16	16° X 59'19	-0°35'49
min. Earth dist.	10626 Aug 02 10:31		17.35239 AU	min. Earth dist.	10632 Aug 30 06:42		17.55855 AU
direct	10626 Oct 16 22:52	16°≈36'32	17.55257110	direct	10632 Nov 14 12:11	14° \ 54'31	17.55655716
evening set	10627 Jan 20 04:41	20°≈04'47		evening set	10633 Feb 17 14:43	18° ¥ 19'55	
evening sec	10027 0411 20 0 1.11	20 10 10 1 17		evening sec	10033100 1, 11.13	10 /(1) 00	
conjunction	10627 Feb 05 15:44	21° ≈ 06'17	-0°07'41	conjunction	10633 Mar 05 20:30	19°) 20′05	-0°34'10
minimum elong	10627 Feb 05 15:44	21° ≈ 06'17	0°07'19	minimum elong	10633 Mar 05 20:30	19°) € 20'05	0°34'01
behind sun begin	10627 Feb 05 09:35	21° ≈ 05'21		max. Earth dist.	10633 Mar 05 13:04	19°) 18′56	19.58160 AU
behind sun end	10627 Feb 05 21:53	21° ≈ 07'14		morning rise	10633 Mar 21 23:37	20°) 19′50	
max. Earth dist.	10627 Feb 05 04:09	21° ≈ 04'29	19.36401 AU	retrograde	10633 Jun 21 14:46	23°) 38′59	
morning rise	10627 Feb 22 00:20	22° ≈ 07'27		opposition	10633 Sep 03 23:12	21°) 37′25	-0°40'06
retrograde	10627 May 25 03:07	25° ≈ 30′02		min. Earth dist.	10633 Sep 04 05:02	21°) € 36'48	17.60559 AU
opposition	10627 Aug 07 00:48	23° ≈ 27'30	-0°11'06	direct	10633 Nov 19 12:42	19°) 32′47	
min. Earth dist.	10627 Aug 07 09:43	23° ≈ 26'32	17.37682 AU	evening set	10634 Feb 22 13:32	22° 升 57′25	
direct	10627 Oct 22 01:56	21° ≈ 21'58					
evening set	10628 Jan 25 07:54	24° ≈ 49'59		conjunction	10634 Mar 10 18:31	23° ¥ 57′17	-0°37'54
				minimum elong	10634 Mar 10 18:31	23° ¥ 57′17	0°37'48
conjunction	10628 Feb 10 18:18	25° ≈ 51'21	-0°12'26	max. Earth dist.	10634 Mar 10 12:55	23°) ₹56′25	19.63042 AU
minimum elong	10628 Feb 10 18:18	25° ≈ 51'21	0°12'05	morning rise	10634 Mar 26 20:40	24°) € 56'45	
behind sun begin	10628 Feb 10 13:46	25° ≈ 50'39		retrograde	10634 Jun 26 11:03	28° ₩ 15'11	
behind sun end	10628 Feb 10 22:50	25°≈52'02		opposition	10634 Sep 08 21:29	26°) 13′46	
max. Earth dist.	10628 Feb 10 08:20		19.39063 AU	min. Earth dist.	10634 Sep 09 01:57		17.65614 AU
morning rise	10628 Feb 27 01:50	26°≈52'18		direct	10634 Nov 24 14:34	24° ₩ 09'21	
	10628 May 06 08:14	0° ∀		evening set	10635 Feb 27 11:34	27° ∺ 33′07	
retrograde	10628 May 29 02:25	0°) 14′26		. ,.	10/25 M 15 15 22	200 1/22/41	0041122
.,.	10628 Jun 21 04:03	30°R≈	0017123	conjunction	10635 Mar 15 15:33	28°\(\frac{1}{32}\)'41 28°\(\frac{1}{32}\)'41	
opposition min. Earth dist.	10628 Aug 11 01:09	28°≈12'07		minimum elong	10635 Mar 15 15:32		19.68280 AU
	10628 Aug 11 10:15 10628 Oct 26 03:42	26°≈06'42	17.40556 AU	max. Earth dist.	10635 Mar 15 10:31	28° X 31'53	19.08280 AU
direct evening set	10628 Oct 26 03.42 10629 Jan 29 10:45	20 ≈0642 29°≈34'25		morning rise	10635 Mar 31 16:53 10635 Apr 08 13:55	29 π 31 33 0° Υ	
evening set	10629 Feb 05 08:41	29 ≈ 3423		retrograde	10635 Apr 08 13:33 10635 Jul 01 04:48	0 1 2° Υ 49'36	
	10029 Feb 03 08.41	υ χ		opposition		2 1 49 30 0° Υ 48'20	0017110
conjunction	10629 Feb 14 20:08	0°) 35'33	-0°17'05	min. Earth dist.	10635 Sep 13 19:28 10635 Sep 13 23:24		17.71051 AU
minimum elong	10629 Feb 14 20:08	0° X 35'33		mm. Darm dist.	10635 Sep 13 23.24 10635 Oct 03 07:11	0 14/33 30°R ∺	17.71031 AU
max. Earth dist.	10629 Feb 14 20:08 10629 Feb 14 09:34		19.42149 AU	direct	10635 Nov 29 13:28	28°) 44'08	
morning rise	10629 Mar 03 02:56	1° X 36'19	17.12177 110	G11001	10636 Jan 23 14:47	20 γ (44 00	
retrograde	10629 Jun 03 02:00	4°) 57'57		evening set	10636 Mar 03 08:33	2° Υ 07'02	
opposition	10629 Aug 16 01:21	2° H 55'48	-0°21'30		. 5050 Mai 05 00.55	- 10/02	
min. Earth dist.	10629 Aug 16 09:29		17.43846 AU	conjunction	10636 Mar 19 11:39	3° Y 06′18	-0°44'33
direct	10629 Oct 31 05:50	0°\(\frac{1}{50}\)		minimum elong	10636 Mar 19 11:38	3° Υ 06'18	
evening set	10630 Feb 03 12:40	4°) €17'47		max. Earth dist.	10636 Mar 19 08:19		19.73902 AU
3		' ''		morning rise	10636 Apr 04 12:04	4° Υ 05'11	
conjunction	10630 Feb 19 21:22	5°) 18'44	-0°21'38	retrograde	10636 Jul 04 23:57	7° Υ 22'12	
minimum elong	10630 Feb 19 21:21	5°) 18'44		opposition	10636 Sep 17 16:51	5° Y 21′08	-0°51'10
-					-		

min. Earth dist.	10636 Sep 17 18:49	5° Y 20'55	17.76850 AU	max. Earth dist.	10643 Apr 20 12:18	4° 8 15'20	20.19770 AU
direct	10636 Dec 03 14:10	3° Ƴ 17'15		morning rise	10643 May 06 03:40	5° 8 11'36	
evening set	10637 Mar 08 04:42	6° Ƴ 39'13		retrograde	10643 Aug 05 16:01	8° 8 23'46	
				opposition	10643 Oct 20 08:10	6° 8 24'24	-1°04'40
conjunction	10637 Mar 24 06:51	7° Ƴ 38'10	-0°47'25	min. Earth dist.	10643 Oct 20 04:24	6° 8 24'47	18.23111 AU
minimum elong	10637 Mar 24 06:50	7° Ƴ 38'10	0°47'27	direct	10644 Jan 05 08:56	4° 8 23'08	
max. Earth dist.	10637 Mar 24 04:36	7° Ƴ 37'50	19.79881 AU	evening set	10644 Apr 08 00:36	7° 8 37'58	
morning rise	10637 Apr 09 06:27	8° Y 36'46					
retrograde	10637 Jul 09 16:31	11° Y 53'05		conjunction	10644 Apr 23 21:18	8° 8 34'49	-0°58'31
opposition	10637 Sep 22 13:51	9° Ƴ 52'14	-0°54'11	minimum elong	10644 Apr 23 21:18	8° 8 34'49	0°58'49
min. Earth dist.	10637 Sep 22 15:22	9° Ƴ 52'05	17.83009 AU	max. Earth dist.	10644 Apr 24 01:31	8° 8 35'27	20.26392 AU
direct	10637 Dec 08 11:14	7° Υ 48'41		morning rise	10644 May 09 16:30	9° 8 31'27	
evening set	10638 Mar 12 23:45	11° Y 09'43		retrograde	10644 Aug 09 07:41	12° 8 42'56	
				opposition	10644 Oct 24 01:12	10° 8 43'44	
conjunction	10638 Mar 29 01:04	12° Y ′08′22		min. Earth dist.	10644 Oct 23 19:42	_	18.29655 AU
minimum elong	10638 Mar 29 01:04	12° Y ′08′22	0°50'03	direct	10645 Jan 09 03:38	8° 8 42'47	
max. Earth dist.	10638 Mar 29 00:10		19.86194 AU	evening set	10645 Apr 12 13:39	11° 8 56'32	
morning rise	10638 Apr 13 23:57	13° Y ′06'41					
retrograde	10638 Jul 14 10:48	16° Y 22'18		conjunction	10645 Apr 28 09:53	12° 8 53'06	
opposition	10638 Sep 27 10:08	14° Y 21'42		minimum elong	10645 Apr 28 09:52	12° 8 53'06	
min. Earth dist.	10638 Sep 27 09:39		17.89441 AU	max. Earth dist.	10645 Apr 28 15:33	_	20.32846 AU
direct	10638 Dec 13 10:01	12° Y 18'32		morning rise	10645 May 14 04:34	13° 8 49'29	
evening set	10639 Mar 17 18:06	15° Ƴ 38'36			10645 Jun 04 08:20	15° 8	
				retrograde	10645 Aug 13 19:12	17° 8 00'17	
conjunction	10639 Apr 02 18:33	16° Y 36'56		opposition	10645 Oct 28 17:37	15° 8 01'13	
minimum elong	10639 Apr 02 18:33	16° Y 36′56		min. Earth dist.	10645 Oct 28 12:28	_	18.36024 AU
max. Earth dist.	10639 Apr 02 18:54		19.92734 AU		10645 Oct 29 05:25	15° ₹ 8	
morning rise	10639 Apr 18 16:39	17° Y 34'58		direct	10646 Jan 13 19:08	13° 8 00'34	
retrograde	10639 Jul 19 02:19	20° Y 49'53			10646 Mar 25 22:55	15° 8	
opposition	10639 Oct 02 06:02	18° Y ′49'34		evening set	10646 Apr 17 01:50	16° 8 13'12	
min. Earth dist.	10639 Oct 02 05:29		17.96079 AU		10/4/1/ 02 21 20	170 400120	0050140
direct	10639 Dec 18 05:35	16° Y 46'47 20° Y 05'51		conjunction	10646 May 02 21:28	17° 8 09'30	
evening set	10640 Mar 21 11:34	20-10551		minimum elong	10646 May 02 21:28	17° 8 09'30	20.39128 AU
conjunction	10640 Apr 06 11:11	21° Y ′03'53	0°54'00	max. Earth dist. morning rise	10646 May 03 02:59 10646 May 18 15:58	18° 8 05'38	20.39128 AU
minimum elong	10640 Apr 06 11:10	21 γ 03 33 21° γ 03'53	0°54'18	retrograde	10646 May 18 13.38 10646 Aug 18 08:56	21° 8 15'46	
max. Earth dist.	10640 Apr 06 12:22		19.99447 AU	opposition	10646 Nov 02 09:15	19° 8 16'47	-1°04'56
morning rise	10640 Apr 22 08:37	22° Υ 01'37	17.77447 AO	min. Earth dist.	10646 Nov 02 02:31		18.42210 AU
retrograde	10640 Jul 22 19:47	25°Υ15'51		direct	10647 Jan 18 12:52	17° 8 16'24	10.42210 AU
opposition	10640 Oct 06 01:23	23°Υ15'48	-1°01'05	evening set	10647 Apr 21 13:02	20° 8 27'56	
min. Earth dist.	10640 Oct 05 22:52		18.02838 AU	evening sec	100 t/ 11p1 21 15.02	20 02700	
direct	10640 Dec 22 02:39	21°Υ13'26	10.02030110	conjunction	10647 May 07 08:19	21° 8 23'59	-0°58'18
evening set	10641 Mar 26 04:01	24° Υ 31'27		minimum elong	10647 May 07 08:19	21° 8 23'59	
				max. Earth dist.	10647 May 07 15:32		20.45218 AU
conjunction	10641 Apr 11 02:52	25° Y ′29′11	-0°55'45	morning rise	10647 May 23 02:23	22° 8 19'53	
minimum elong	10641 Apr 11 02:52	25° Y ′29'11		retrograde	10647 Aug 22 19:06	25° 8 29'21	
max. Earth dist.	10641 Apr 11 05:28	25° Y ′29'35	20.06232 AU	opposition	10647 Nov 07 00:21	23° 8 30'27	-1°04'18
morning rise	10641 Apr 26 23:36	26° Y ′26′38		min. Earth dist.	10647 Nov 06 17:45	23° 8 31'07	18.48221 AU
retrograde	10641 Jul 27 10:18	29° Y '40'12		direct	10648 Jan 23 03:20	21° 8 30'20	
opposition	10641 Oct 10 20:20	27° Y '40'23	-1°02'39	evening set	10648 Apr 24 23:30	24° 8 40'47	
min. Earth dist.	10641 Oct 10 18:00	27° Y '40'38	18.09646 AU				
direct	10641 Dec 26 20:35	25° Ƴ 38'24		conjunction	10648 May 10 18:14	25° 8 36'34	-0°57'36
evening set	10642 Mar 30 19:46	28° Y ′55′23		minimum elong	10648 May 10 18:14	25° 8 36'34	0°58'01
				max. Earth dist.	10648 May 11 01:27	25° 8 37'39	20.51162 AU
conjunction	10642 Apr 15 17:50	29° Ƴ 52'49	-0°57'00	morning rise	10648 May 26 12:13	26° 8 32'15	
minimum elong	10642 Apr 15 17:49	29° Y 52'48	0°57'14	retrograde	10648 Aug 26 07:05	29° 8 41'06	
max. Earth dist.	10642 Apr 15 20:44	29° Ƴ 53'15	20.13037 AU	opposition	10648 Nov 10 14:44	27° 8 42'16	-1°03'20
	10642 Apr 17 17:15	0° 8		min. Earth dist.	10648 Nov 10 06:22		18.54102 AU
morning rise	10642 May 01 14:04	0° 8 49'59		direct	10649 Jan 26 19:00	25° 8 42'24	
retrograde	10642 Aug 01 03:00	4° 8 02'50		evening set	10649 Apr 29 08:56	28° 8 51'49	
opposition	10642 Oct 15 14:22	2° 8 03'16					
min. Earth dist.	10642 Oct 15 10:16		18.16425 AU	conjunction	10649 May 15 03:27	29° 8 47'23	
direct	10642 Dec 31 16:12	0° 8 01'39		minimum elong	10649 May 15 03:27	29° 8 47'23	0°57'02
evening set	10643 Apr 04 10:38	3° 8 17'34		max. Earth dist.	10649 May 15 12:38		20.56970 AU
					10649 May 18 16:44	0°II	
conjunction	10643 Apr 20 08:05	4° 8 14'42		morning rise	10649 May 30 21:08	0° Ⅱ 42'51	
minimum elong	10643 Apr 20 08:05	4° 8 14'42	U~28/11	retrograde	10649 Aug 30 16:29	3° Ⅱ 51′08	

opposition min. Earth dist.	10649 Nov 15 04:34 10649 Nov 14 20:05		-1°02'01 18.59845 AU	conjunction minimum elong	10656 Jun 12 05:02 10656 Jun 12 05:02	28°П26'24 28°П26'24	0°42'33
direct	10650 Jan 14 06:30 10650 Jan 31 08:10 10650 Feb 17 05:23	30°R 8 29° 8 52'48 0°Ⅱ		max. Earth dist. morning rise	10656 Jun 12 17:03 10656 Jun 27 23:19 10656 Jul 09 18:33	28°月28'08 29°月20'53 0°©	20.91478 AU
evening set	10650 May 03 17:54	3° 耳 01′14		retrograde opposition	10656 Sep 28 09:49 10656 Dec 14 14:34	2°\$26'31 0°\$28'34	-0°44'50
conjunction	10650 May 19 11:59	3°П56'34		min. Earth dist.	10656 Dec 14 02:11	0° © 29'48	18.93278 AU
minimum elong max. Earth dist.	10650 May 19 11:59 10650 May 19 21:01	3° ∏ 56'34	0°55'44 20.62649 AU	direct	10656 Dec 26 15:28 10657 Mar 01 11:12	30°RⅡ 28°Ⅱ30'55	
morning rise	10650 Jun 04 05:42	4° ∏ 51'50	20.0204) AO	uncet	10657 May 01 11:43	0° 9	
retrograde	10650 Sep 04 03:06	7° Ⅱ 59'35		evening set	10657 May 31 17:01	1°533'56	
opposition	10650 Nov 19 17:31	6° Ⅲ 00'57	-1°00'24		•		
min. Earth dist.	10650 Nov 19 07:30		18.65449 AU	conjunction	10657 Jun 16 10:48	2° © 28'14	-0°39'00
direct	10651 Feb 04 21:16	4° Ⅱ 01'39		minimum elong	10657 Jun 16 10:48	2°528'14	
evening set	10651 May 08 02:03	7° Ⅱ 09'10		max. Earth dist.	10657 Jun 16 23:55		20.94904 AU
conjunction	10651 May 23 20:03	8° Ⅱ 04'18	0°53'41	morning rise retrograde	10657 Jul 02 05:13 10657 Oct 02 16:52	3° 5 22'38 6° 5 28'03	
minimum elong	10651 May 23 20:03	8° Д 04'18	0°54'11	opposition	10657 Dec 19 00:42	4° 9 30'09	-0°41'25
max. Earth dist.	10651 May 24 06:55		20.68160 AU	min. Earth dist.	10657 Dec 18 12:37		18.96440 AU
morning rise	10651 Jun 08 13:34	8° Ⅱ 59'24		direct	10658 Mar 05 20:08	2°532'42	
retrograde	10651 Sep 08 12:12	12° Ⅱ 06'40		evening set	10658 Jun 04 22:26	5° © 35'08	
opposition	10651 Nov 24 06:14	10° II 08'10	-0°58'28	-			
min. Earth dist.	10651 Nov 23 20:06	10° Ⅱ 09′12	18.70859 AU	conjunction	10658 Jun 20 16:11	6° 5 29'19	-0°35'50
direct	10652 Feb 09 09:03	8° Ⅱ 09'11		minimum elong	10658 Jun 20 16:11	6° 5 29'19	0°36'23
evening set	10652 May 11 09:39	11° Ⅱ 15'48		max. Earth dist.	10658 Jun 21 04:06		20.97808 AU
	1065034 07 00 10	100 T 10145	0051140	morning rise	10658 Jul 06 11:05	7°523'41	
conjunction	10652 May 27 03:19	12° Ⅱ 10'45		retrograde	10658 Oct 07 01:41	10°528'55	0927140
minimum elong max. Earth dist.	10652 May 27 03:19 10652 May 27 13:53	12° Ⅱ 10'45	20.73468 AU	opposition min. Earth dist.	10658 Dec 23 10:22 10658 Dec 22 22:11	8°931'00	18.99081 AU
morning rise	10652 Jun 11 21:01	12 Ⅱ 12 18 13° Ⅱ 05'42	20.73408 AU	direct	10659 Mar 10 03:53	6°933'40	16.99061 AU
retrograde	10652 Sep 11 22:06	16° Ⅱ 12'34		evening set	10659 Jun 09 03:22	9° © 35'33	
opposition	10652 Nov 27 18:21	14° Ⅱ 14'11	-0°56'15				
min. Earth dist.	10652 Nov 27 06:57	14° Ⅱ 15'19	18.76044 AU	conjunction	10659 Jun 24 21:29	10°529'41	-0°32'29
direct	10653 Feb 12 20:15	12° Ⅱ 15′29		minimum elong	10659 Jun 24 21:29	10° 5 29'41	0°33'02
evening set	10653 May 15 16:39	15° Ⅲ 21'17		max. Earth dist.	10659 Jun 25 10:28	10° © 31'33	21.00189 AU
				morning rise	10659 Jul 10 16:34	11° 5 24'00	
conjunction	10653 May 31 10:22	16° Ⅱ 16'04		retrograde	10659 Oct 11 08:16	14° © 29'04	
minimum elong	10653 May 31 10:22	16° Ⅱ 16'04		opposition	10659 Dec 27 19:48	12°531'07	
max. Earth dist. morning rise	10653 May 31 22:35 10653 Jun 16 03:59	16°Щ1/31 17°Щ10'53	20.78507 AU	min. Earth dist. direct	10659 Dec 27 07:46 10660 Mar 13 12:18	12°932'19	19.01202 AU
retrograde	10653 Sep 16 06:44	20° Ⅱ 17′21		evening set	10660 Jun 12 08:01	10 \$33 32 13°\$35'15	
opposition	10653 Dec 02 05:55	18° Ⅱ 19'07	-0°53'46	evening set	10000 Juli 12 00.01	15 355 15	
min. Earth dist.	10653 Dec 01 18:36		18.80928 AU	conjunction	10660 Jun 28 02:14	14° © 29'19	-0°29'00
direct	10654 Feb 17 06:50	16° Ⅲ 20'43		minimum elong	10660 Jun 28 02:14	14° © 29'19	0°29'33
evening set	10654 May 19 23:23	19° Ⅱ 25'45		max. Earth dist.	10660 Jun 28 14:13	14° © 31'03	21.02080 AU
				morning rise	10660 Jul 13 21:56	15° © 23'36	
conjunction	10654 Jun 04 16:53	20° Ⅲ 20′23		retrograde	10660 Oct 14 16:20	18°9528'35	
minimum elong	10654 Jun 04 16:54	20° Ⅱ 20′23		opposition	10660 Dec 31 04:50	16°530'32	
max. Earth dist. morning rise	10654 Jun 05 04:26 10654 Jun 20 10:49	20°Щ22'04 21°Щ15'04	20.83230 AU	min. Earth dist. direct	10660 Dec 30 16:43 10661 Mar 17 18:38	16°931'44 14°933'20	19.02870 AU
retrograde	10654 Sep 20 16:22	24° I I21'13		evening set	10661 Jun 16 12:25	14 \$33 20 17° \$34'16	
opposition	10654 Dec 06 17:09	22° I I23'06	-0°51'02	evening set	10001 3411 10 12.23	17 33410	
min. Earth dist.	10654 Dec 06 05:01		18.85471 AU	conjunction	10661 Jul 02 07:05	18° © 28'19	-0°25'22
direct	10655 Feb 21 16:39	20° Ⅲ 24'59		minimum elong	10661 Jul 02 07:05	18° © 28'19	
evening set	10655 May 24 05:32	23° Ⅲ 29′18		max. Earth dist.	10661 Jul 02 20:17	18° © 30'12	21.03527 AU
				morning rise	10661 Jul 18 03:03	19° © 22'35	
conjunction	10655 Jun 08 23:09	24° Ⅲ 23'48		retrograde	10661 Oct 18 22:53	22° © 27'28	
minimum elong	10655 Jun 08 23:09	24° Ⅲ 23'48		opposition	10662 Jan 04 13:21	20°529'20	
max. Earth dist.	10655 Jun 09 12:05		20.87567 AU	min. Earth dist.	10662 Jan 04 01:12		19.04111 AU
morning rise	10655 Jun 24 17:03 10655 Sep 25 00:16	25° Ⅱ 18'22 28° Ⅱ 24'14		direct	10662 Mar 22 02:29	18° © 32'11 21° © 32'45	
retrograde opposition	10655 Sep 25 00:16 10655 Dec 11 04:04	28°Щ24°14 26°Щ26'14	-0°48'03	evening set	10662 Jun 20 16:50	43 دوند ا	
min. Earth dist.	10655 Dec 10 16:06		18.89595 AU	conjunction	10662 Jul 06 11:38	22° © 26'47	-0°21'38
direct	10656 Feb 26 02:26	24° Ⅱ 28'23		minimum elong	10662 Jul 06 11:38	22° 5 26'47	
evening set	10656 May 27 11:32	27° Ⅲ 32'01		max. Earth dist.	10662 Jul 06 23:51		21.04582 AU
-	•			morning rise	10662 Jul 22 08:15	23° © 21'03	

retrograde	10662 Oct 23 06:48	26°\$25'56		direct	10668 Apr 14 13:20	12° Ω 21'51	
opposition	10663 Jan 08 21:46	24°\$27'42 -	0021140	direct	10668 Jul 07 06:22	12 0(21 31	
min. Earth dist.	10663 Jan 08 09:32		19.04987 AU	evening set	10668 Jul 13 19:21	15° Ω 21'40	
direct	10663 Mar 26 07:51	22° © 30'36	17.04707 AU	evening set	10000 Jul 13 17.21	13 6621 40	
evening set	10663 Jun 24 20:52	25° © 30'51		conjunction	10668 Jul 29 16:51	16° Ω 15'57	0°02'23
evening set	10003 Jun 24 20.32	23 3031		minimum elong	10668 Jul 29 16:51	16°Ω15'57	0°01'59
conjunction	10663 Jul 10 16:11	26°524'53	-0°17'47	behind sun begin	10668 Jul 29 10:15	16°Ω15'02	0 01 37
minimum elong	10663 Jul 10 16:11		0°18'19	behind sun end	10668 Jul 29 23:27	16° Ω 16'52	
max. Earth dist.	10663 Jul 11 05:40		21.05271 AU	max. Earth dist.	10668 Jul 30 04:34		21.03130 AU
morning rise	10663 Jul 26 13:07	27° © 19'11	21.00271110	morning rise	10668 Aug 14 16:55	17° Ω 10'36	21.00100110
8	10663 Sep 26 03:42	0° N		retrograde	10668 Nov 16 07:24	20° Ω 16'33	
retrograde	10663 Oct 27 13:41	0° Ω 24'06		opposition	10669 Feb 01 21:41	18° Ω 17'53	0°04'49
ronogrado	10663 Nov 28 17:06	30°Rூ		min. Earth dist.	10669 Feb 01 10:30	18° Ω 19'01	19.02340 AU
opposition	10664 Jan 13 06:00	28°\$25'48	-0°17'30	direct	10669 Apr 18 18:50	16° Ω 20'58	
min. Earth dist.	10664 Jan 12 17:31		19.05494 AU	evening set	10669 Jul 18 00:41	19° Ω 20'54	
direct	10664 Mar 29 14:50	26° © 28'45	.,,,,,				
evening set	10664 Jun 28 01:10	29° © 28'46		conjunction	10669 Aug 02 22:53	20° Ω 15'19	0°06'28
	10664 Jul 07 05:39	0° N		minimum elong	10669 Aug 02 22:54	20°Ω15'19	0°06'05
	1000.001	~ ~ ~ ~		behind sun begin	10669 Aug 02 16:37	20° Ω 14'26	0 00 05
conjunction	10664 Jul 13 20:43	0° Ω 22'49 -	-0°13'52	behind sun end	10669 Aug 03 05:10	20°Ω16'11	
minimum elong	10664 Jul 13 20:44		0°14'22	max. Earth dist.	10669 Aug 03 11:06		21.01409 AU
behind sun begin	10664 Jul 13 17:37	0° Ω 22'23	V 1.22	morning rise	10669 Aug 18 23:25	21°Ω10'04	21.01.09.110
behind sun end	10664 Jul 13 23:50	0°Ω23'15		retrograde	10669 Nov 20 16:28	24°Ω16'21	
max. Earth dist.	10664 Jul 14 09:10		21.05609 AU	opposition	10670 Feb 06 05:34	22°Ω17'36	0°09'19
morning rise	10664 Jul 29 18:22	1° Ω 17'09	21.00007110	min. Earth dist.	10670 Feb 05 18:44		19.00361 AU
retrograde	10664 Oct 30 22:05	4°Ω22'10		direct	10670 Apr 23 01:16	20°Ω20'38	19.00001110
opposition	10665 Jan 16 13:59	2° Ω 23'47	-0°13'07	evening set	10670 Jul 22 06:32	23° Ω 20'46	
min. Earth dist.	10665 Jan 16 01:37		19.05659 AU	evening sec	10070 041 22 00.52	25 0020 .0	
direct	10665 Apr 02 20:09	0° Ω 26'46	19.000009110	conjunction	10670 Aug 07 05:09	24° Ω 15'17	0°10'31
evening set	10665 Jul 02 05:20	3° Ω 26'38		minimum elong	10670 Aug 07 05:09	24°Ω15'17	0°10'09
evening sec	10000 041 02 00.20	5 002 050		behind sun begin	10670 Aug 06 23:51	24°Ω14'33	0 10 0)
conjunction	10665 Jul 18 01:32	4° Ω 20'44 -	-0°09'53	behind sun end	10670 Aug 07 10:27	24°Ω16'01	
minimum elong	10665 Jul 18 01:32		0°10'23	max. Earth dist.	10670 Aug 07 15:29		20.99174 AU
behind sun begin	10665 Jul 17 20:19	4°Ω20'00	0 10 23	morning rise	10670 Aug 23 06:29	25°Ω10'11	20.5517.110
behind sun end	10665 Jul 18 06:44	4° Ω 21'27		retrograde	10670 Nov 25 01:33	28° Ω 16'51	
max. Earth dist.	10665 Jul 18 15:01		21.05585 AU	opposition	10671 Feb 10 13:52	26° Ω 17'57	0°13'48
morning rise	10665 Aug 02 23:35	5° Ω 15'07	21.00000 110	min. Earth dist.	10671 Feb 10 04:10		18.97863 AU
retrograde	10665 Nov 04 05:28	8° Ω 20'17		direct	10671 Apr 27 06:38	24°Ω20'54	10.57005710
opposition	10666 Jan 20 21:52	6° Ω 21'51 -	-0°08'41	evening set	10671 Jul 26 12:30	27° Ω 21'15	
min. Earth dist.	10666 Jan 20 09:25		19.05438 AU	evening sec	100/1041 20 12.50	27 002110	
direct	10666 Apr 07 02:03	4°Ω24'52	19.00 100 110	conjunction	10671 Aug 11 11:54	28° Ω 15'55	0°14'31
evening set	10666 Jul 06 09:49	7° Ω 24'39		minimum elong	10671 Aug 11 11:53	28° Ω 15'55	0°14'11
evening sec	10000 341 00 07.17	, 002139		behind sun begin	10671 Aug 11 08:41	28° Ω 15'28	0 1111
conjunction	10666 Jul 22 06:18	8° Ω 18'48 -	-0°05'53	behind sun end	10671 Aug 11 15:06	28°Ω16'22	
minimum elong	10666 Jul 22 06:17	8° Ω 18'47		max. Earth dist.	10671 Aug 11 22:33		20.96405 AU
behind sun begin	10666 Jul 22 00:04	8° Ω 17'55	0 00 20	morning rise	10671 Aug 27 13:44	29° Ω 10'57	20.90.00110
behind sun end	10666 Jul 22 12:31	8° Ω 19'40		morning rise	10671 Sep 11 15:37	0° m)	
max. Earth dist.	10666 Jul 22 18:33		21.05178 AU	retrograde	10671 Nov 29 11:27	2° m/ 18'01	
morning rise	10666 Aug 07 05:05	9° Ω 13'15		opposition	10672 Feb 14 22:13	0° m ₂ 18'57	0°18'13
retrograde	10666 Nov 08 14:12	12° Ω 18'37		min. Earth dist.	10672 Feb 14 12:51	•	18.94821 AU
opposition	10667 Jan 25 05:46	10°Ω20'07 -	-0°04'12	mm. Latti dist.	10672 Feb 22 18:41	30°RΩ	10.94021710
min. Earth dist.	10667 Jan 24 17:43		19.04835 AU	direct	10672 Apr 30 14:00	28° Ω 21'46	
direct	10667 Apr 11 07:36	8° Ω 23'10	19.01033110	ancer	10672 Jul 03 12:24	0° m)	
evening set	10667 Jul 10 14:24	11° Ω 22'57		evening set	10672 Jul 29 19:08	1° m) 22'24	
evening set	10007 Jul 10 14.24	11 0022 37		evening set	100/2 341 27 17.00	1 11/2224	
conjunction	10667 Jul 26 11:32	12° Ω 17'10 ⋅	-0°01'49	conjunction	10672 Aug 14 19:01	2° mp 17'13	0°18'28
minimum elong	10667 Jul 26 11:31	12° Ω 17'10		minimum elong	10672 Aug 14 19:01	2° m) 17'13	0°18'09
behind sun begin	10667 Jul 26 04:56	12° Ω 16'15	. 02.10	max. Earth dist.	10672 Aug 15 03:41		20.93115 AU
behind sun end	10667 Jul 26 18:07	$12^{\circ}\Omega 18'05$		morning rise	10672 Aug 13 03.41 10672 Aug 30 21:45	3° m) 12'25	20.73113 AU
max. Earth dist.	10667 Jul 27 00:42		21.04370 AU	retrograde	10672 Aug 30 21:43 10672 Dec 02 20:42	6° M) 19'55	
morning rise	10667 Aug 11 10:46	$13^{\circ}\Omega 11'42$	21.073/0 AU	opposition	10672 Dec 02 20.42 10673 Feb 18 06:36	4° m) 20'37	0°22'34
morning 1150	10667 Sep 16 09:43	15 δ (11 42		min. Earth dist.	10673 Feb 17 00:30		18.91292 AU
retrograde	10667 Sep 16 09.43	15 δι 16° Ω 17'20		direct	10673 Feb 17 22.34 10673 May 04 19:25	2° My 23'15	10.71292 AU
asc. node	10667 Nov 12 22.23 10668 Jan 04 19:42	16 δ <i>l</i> 1 / 20 15° Ω 15'46		evening set	10673 May 04 19.23 10673 Aug 03 01:59	5° Mp 24'14	
asc. Houc	10668 Jan 12 01:14	15 δ l 15 40 15°R Ω		evening set	10075 Aug 05 01.39	J 1111/24-14	
onnosition	10668 Jan 29 13:41		0°00'18	conjunction	10673 Aug 10 02:42	6°m 10112	0°22'21
opposition min. Earth dist.	10668 Jan 29 13:41 10668 Jan 29 01:39		19.03809 AU	minimum elong	10673 Aug 19 02:43 10673 Aug 19 02:43	6° Mp 19'13 6° Mp 19'12	0°22'21 0°22'05
mm. Earm uist.	10000 Jan 29 01.39	17 061738	17.03009 AU	minimum clong	10075 Aug 19 02.45	U 11912	0 44 03

10680 Mar 18 23:50

opposition

2°**2**59'55 0°49'07

,			C	. ,,		, 1	· ·
conjunction	10686 Oct 13 19:32	0°M42'56	0°57'11		10692 Dec 25 05:32	0° ∡ ¹	
minimum elong	10686 Oct 13 19:32	0°M42'56	0°57'25	retrograde	10693 Feb 28 15:02	1° ∡ ¹45'40	
max. Earth dist.	10686 Oct 13 15:58	0°M42'24	20.17279 AU	, and the second	10693 May 07 22:25	30°RM	
morning rise	10686 Oct 30 07:23	1°M41'28		opposition	10693 May 14 16:54	29°M42'31	1°03'02
retrograde	10687 Feb 01 16:58	4°ML58'11		min. Earth dist.	10693 May 15 00:20	29°M41'43	17.75553 AU
opposition	10687 Apr 18 15:38	2°M56'08	1°04'03	direct	10693 Jul 28 08:57	27°M39'35	
min. Earth dist.	10687 Apr 18 19:10	2°M55'45	18.13908 AU		10693 Oct 12 11:12	0° ∡ ¹	
direct	10687 Jul 02 08:54	0°M55'17		evening set	10693 Oct 29 07:24	0° ∡ 757'55	
evening set	10687 Oct 02 03:19	4°ML07'09		C			
				conjunction	10693 Nov 14 21:11	1° ∡ 758′09	0°55'57
conjunction	10687 Oct 18 13:52	5°ML05'39	0°58'04	minimum elong	10693 Nov 14 21:11	1° ∡ ¹58'09	0°56'25
minimum elong	10687 Oct 18 13:52	5°ML05'39	0°58'21	max. Earth dist.	10693 Nov 14 11:56	1° ∡ 756'44	19.72745 AU
max. Earth dist.	10687 Oct 18 09:47	5°ML05'02	20.10518 AU	morning rise	10693 Dec 01 11:47	2° ∡ 758'31	
morning rise	10687 Nov 04 02:13	6°ML04'28		retrograde	10694 Mar 05 13:40	6° ∡ 19'47	
retrograde	10688 Feb 06 11:59	9°M21'52		opposition	10694 May 19 11:19	4° ∡ 16'35	1°01'28
opposition	10688 Apr 22 06:18	7°M19'34	1°04'51	min. Earth dist.	10694 May 19 18:36	4° ∡ 15'48	17.70046 AU
min. Earth dist.	10688 Apr 22 09:44	7°M19'12	18.07144 AU	direct	10694 Aug 02 04:52	2° ҂ 13′23	
direct	10688 Jul 06 00:03	5°M18'20		evening set	10694 Nov 03 07:07	5° ∡ ³32'50	
evening set	10688 Oct 05 21:58	8°MJ31'14					
				conjunction	10694 Nov 19 21:24	6° х 33′20	0°54'20
conjunction	10688 Oct 22 09:04	9°M30'02	0°58'36	minimum elong	10694 Nov 19 21:24	6° х¹ 33′20	0°54'50
minimum elong	10688 Oct 22 09:04	9°M30'02	0°58'55	max. Earth dist.	10694 Nov 19 12:09	6° ∡ ³31'55	19.67388 AU
max. Earth dist.	10688 Oct 22 03:34	9°M29'13	20.03765 AU	morning rise	10694 Dec 06 12:03	7° ∡ ³33'56	
morning rise	10688 Nov 07 21:55	10°M29'07		retrograde	10695 Mar 10 11:12	10° ∡ ¹55'46	
retrograde	10689 Feb 10 05:50	13°M47'12		opposition	10695 May 24 06:25	8° ∡ ¹52'33	0°59'29
opposition	10689 Apr 26 21:35	11°M44'40	1°05'17	min. Earth dist.	10695 May 24 14:58	8° ∡ 751'37	17.64842 AU
min. Earth dist.	10689 Apr 27 02:50	11°ML44'07	18.00438 AU	direct	10695 Aug 06 23:14	6° ∡¹ 49'07	
direct	10689 Jul 10 14:06	9°M43'03		evening set	10695 Nov 08 07:49	10° ₹ 09'39	
evening set	10689 Oct 10 17:19	12°M57'01					
				conjunction	10695 Nov 24 22:21	11° х 10′23	0°52'22
conjunction	10689 Oct 27 05:05	13°M56'07	0°58'47	minimum elong	10695 Nov 24 22:21	11° х 10′23	0°52'53
minimum elong	10689 Oct 27 05:05	13°M56'06	0°59'08	max. Earth dist.	10695 Nov 24 11:27	11° х 08′43	19.62337 AU
max. Earth dist.	10689 Oct 26 22:59	13°M55'11	19.97123 AU	morning rise	10695 Dec 11 13:17	12° ≯ 11'12	
morning rise	10689 Nov 12 18:21	14°M55'28		retrograde	10696 Mar 14 10:46	15° ∡ ³33'34	
	10689 Nov 14 01:17	15°M		opposition	10696 May 28 02:11	13° ∡ ³30′20	0°57'07
retrograde	10690 Feb 15 02:07	18°M14'12		min. Earth dist.	10696 May 28 11:04	13° ₹ 29'22	17.59930 AU
opposition	10690 May 01 13:26	16°M11'29	1°05'20	direct	10696 Aug 10 21:21	11° ∡ ¹26'40	
min. Earth dist.	10690 May 01 18:22		17.93871 AU	evening set	10696 Nov 12 09:15	14° ∡ °48′14	
	10690 May 31 07:07	15°RM					
direct	10690 Jul 15 06:48	14°ML09'29		conjunction	10696 Nov 29 00:11	15° ∡¹ 49'13	0°50'03
	10690 Aug 28 06:20	15° M ₊		minimum elong	10696 Nov 29 00:11	15° ∡ ¹49'13	0°50'34
evening set	10690 Oct 15 13:27	17°M24'31		max. Earth dist.	10696 Nov 28 13:22		19.57544 AU
				morning rise	10696 Dec 15 14:58	16° ₹ 50′14	
conjunction	10690 Nov 01 01:46	18°M23'54	0°58'37	retrograde	10697 Mar 19 09:13	20° х 13′03	
minimum elong	10690 Nov 01 01:46	18°M23'54	0°59'01	opposition	10697 Jun 01 22:38	18° ₹ 09'49	0°54'22
max. Earth dist.	10690 Oct 31 18:52		19.90638 AU	min. Earth dist.	10697 Jun 02 08:32		17.55268 AU
morning rise	10690 Nov 17 15:25	19°M23'32		direct	10697 Aug 15 18:14	16° ∡ ¹05'54	
retrograde	10691 Feb 19 21:04	22°M42'56		evening set	10697 Nov 17 11:29	19° ≯ 28'28	
opposition	10691 May 06 06:03	20°M40'01	1°04'58				
min. Earth dist.	10691 May 06 12:28	20°M39'20	17.87497 AU	conjunction	10697 Dec 04 02:28	20°×29'38	0°47'23
direct	10691 Jul 19 22:08	18°MJ37'41		minimum elong	10697 Dec 04 02:28	20° ₹ 29'38	0°47'56
evening set	10691 Oct 20 10:35	21°M53'48		max. Earth dist.	10697 Dec 03 13:43		19.53024 AU
	10(01)	220 M 52120	00.5010.6	morning rise	10697 Dec 20 17:24	21° 🗷 30'50	
conjunction	10691 Nov 05 23:27	22°M53'29	0°58'06	retrograde	10698 Mar 24 09:08	24° ₹ 54'04	
minimum elong	10691 Nov 05 23:27	22°M53'29	0°58'30	opposition	10698 Jun 06 19:41	22° ₹ 50'47	0°51'14
max. Earth dist.	10691 Nov 05 15:43		19.84391 AU	min. Earth dist.	10698 Jun 07 06:07		17.50893 AU
morning rise	10691 Nov 22 13:31	23°M53'22		direct	10698 Aug 20 17:33	20° 🖈 46'36	
retrograde	10692 Feb 24 18:39	27°M13'24	1004112	evening set	10698 Nov 22 14:03	24° ∡ 10′05	
opposition	10692 May 09 23:01	25°M10'21	1°04'12		10(00 D 00 07 2:	250 71125	0044124
min. Earth dist.	10692 May 10 05:10	25°M09'41	17.81383 AU	conjunction	10698 Dec 09 05:24	25° 🖈 11'27	0°44'24
direct	10692 Jul 23 16:16	23°M07'41		minimum elong	10698 Dec 09 05:24	25° 🖈 11'27	0°44'57
evening set	10692 Oct 24 08:37	26°M24'55		max. Earth dist.	10698 Dec 08 17:02		19.48790 AU
	10.000 37 00 00 00	270W 2	0057112	morning rise	10698 Dec 25 20:06	26° ₹ 12'47	
conjunction	10692 Nov 09 22:02	27°M24'52	0°57'12	retrograde	10699 Mar 29 09:19	29° х 36′21	0047117
minimum elong	10692 Nov 09 22:02			opposition	10699 Jun 11 17:18	27° ∡ 33'02	
max. Earth dist.	10692 Nov 09 13:52		19.78408 AU	min. Earth dist.	10699 Jun 12 04:17		17.46807 AU
morning rise	10692 Nov 26 12:17	28°M25'01		direct	10699 Aug 25 16:35	25° ∡ ¹28'35	

evening set	10699 Nov 27 17:28	28° ₹ 52'55			10706 Feb 07 15:15	0° ≈	
Č				retrograde	10706 May 02 12:37	2°≈52'20	
conjunction	10699 Dec 14 08:43	29° ₹ 54'27	0°41'06	opposition	10706 Jul 15 10:42	0° ≈ 48'57	0°15'24
minimum elong	10699 Dec 14 08:43	29° ₹ 54'27	0°41'39	min. Earth dist.	10706 Jul 15 22:30	0°≈47'40	17.31255 AU
max. Earth dist.	10699 Dec 13 18:30	29° ₹ 52'14	19.44880 AU		10706 Aug 03 14:00	30°R₹	
	10699 Dec 15 20:30	ರ°0		direct	10706 Sep 28 22:40	28° る 43'07	
morning rise	10699 Dec 30 23:27	0° る 55'55			10706 Nov 22 15:10	0° ≈	
retrograde	10700 Apr 03 09:22	4° る 19'44		evening set	10707 Jan 01 23:15	2°≈11'08	
opposition	10700 Jun 16 15:13	2° る 16'22	0°43'55				
min. Earth dist.	10700 Jun 17 02:58	2° る 15'05	17.43084 AU	conjunction	10707 Jan 18 12:59	3° ≈ 13′03	0°11'22
direct	10700 Aug 30 16:03	0° る 11'38		minimum elong	10707 Jan 18 12:59	3° ≈ 13′03	0°11'52
evening set	10700 Dec 02 21:06	3° る 36'45		behind sun begin	10707 Jan 18 08:21	3°≈12'21	
				behind sun end	10707 Jan 18 17:36	3°≈13'46	
conjunction	10700 Dec 19 12:32	4° る 38'26	0°37'31	max. Earth dist.	10707 Jan 17 23:49	3°≈11'00	19.31261 AU
minimum elong	10700 Dec 19 12:32	4° る 38'26	0°38'05	morning rise	10707 Feb 04 00:38	4°≈14'41	
max. Earth dist.	10700 Dec 18 22:59	4° る 36'19	19.41352 AU	retrograde	10707 May 07 14:24	7° ≈ 38'29	
morning rise	10701 Jan 05 02:52	5° る 40'00		opposition	10707 Jul 20 10:45	5° ≈ 35'14	0°10'03
retrograde	10701 Apr 08 11:12	9° ප 03'59		min. Earth dist.	10707 Jul 20 21:07	5°≈34'06	17.31441 AU
opposition	10701 Jun 21 13:42	7° る 00'36	0°39'46	direct	10707 Oct 04 02:33	3°≈29'24	
min. Earth dist.	10701 Jun 22 01:23	6° る 59'19	17.39760 AU	evening set	10708 Jan 07 03:44	6° ≈ 57'37	
direct	10701 Sep 04 16:35	4° る 55'36		•			
evening set	10701 Dec 08 01:04	8° る 21'24		conjunction	10708 Jan 23 16:56	7°≈59'29	0°06'34
C				minimum elong	10708 Jan 23 16:56	7°≈59'29	0°07'03
conjunction	10701 Dec 24 16:15	9° පි 23'11	0°33'39	behind sun begin	10708 Jan 23 10:43	7°≈58'32	
minimum elong	10701 Dec 24 16:15	9° පි 23'11	0°34'12	behind sun end	10708 Jan 23 23:10	8°≈00'26	
max. Earth dist.	10701 Dec 24 01:27	9° る 20'53	19.38261 AU	max. Earth dist.	10708 Jan 23 04:32	7° ≈ 57'33	19.31759 AU
morning rise	10702 Jan 10 06:26	10° る 24'51		morning rise	10708 Feb 09 03:48	9° ≈ 01'02	
retrograde	10702 Apr 13 10:51	13° る 48'58		retrograde	10708 May 11 13:22	12° ≈ 24'36	
opposition	10702 Jun 26 12:34	11° る 45'31	0°35'20	opposition	10708 Jul 24 11:04	10° ≈ 21'32	0°04'38
min. Earth dist.	10702 Jun 27 00:58	11° る 44'09	17.36917 AU	min. Earth dist.	10708 Jul 24 22:05	10° ≈ 20'20	17.32242 AU
direct	10702 Sep 09 16:11	9° ප් 40'16		direct	10708 Oct 08 03:59	8°≈15'45	
evening set	10702 Dec 13 05:15	13° る 06'40		evening set	10709 Jan 11 08:04	11° ≈ 44'05	
conjunction	10702 Dec 29 20:26	14° る 08'33	0°29'33	conjunction	10709 Jan 27 20:34	12° ≈ 45'51	0°01'42
minimum elong	10702 Dec 29 20:26	14° る 08'33	0°30'07	minimum elong	10709 Jan 27 20:35	12° ≈ 45'51	0°02'09
max. Earth dist.	10702 Dec 29 06:29	14° る 06'23	19.35673 AU	behind sun begin	10709 Jan 27 13:51	12° ≈ 44'49	
morning rise	10703 Jan 15 10:10	15° る 10'16		behind sun end	10709 Jan 28 03:18	12° ≈ 46'53	
retrograde	10703 Apr 18 13:03	18° る 34'25		max. Earth dist.	10709 Jan 27 08:12	12° ≈ 43'55	19.32858 AU
opposition	10703 Jul 01 11:33	16° る 30'57	0°30'39	morning rise	10709 Feb 13 06:49	13° ≈ 47'18	
min. Earth dist.	10703 Jul 01 23:22	16° る 29'39	17.34589 AU		10709 Mar 06 00:47	15° ≈	
direct	10703 Sep 14 18:02	14° る 25'29		retrograde	10709 May 16 14:53	17° ≈ 10'37	
evening set	10703 Dec 18 09:49	17° る 52'24		desc. node	10709 Jun 05 03:48	17°≈00'07	
max. Earth dist.	10704 Jan 03 10:01	18° る 52'04	19.33626 AU	opposition	10709 Jul 29 11:26	15° ≈ 07'44	-0°00'48
				min. Earth dist.	10709 Jul 29 21:04	15° ≈ 06'41	17.33611 AU
conjunction	10704 Jan 04 00:39	18° る 54'21	0°25'14		10709 Aug 01 10:27	15° R ≈	
minimum elong	10704 Jan 04 00:40	18° る 54'21	0°25'47	direct	10709 Oct 13 07:54	13° ≈ 02'01	
morning rise	10704 Jan 20 14:01	19° る 56'05			10709 Dec 21 05:27	15° ≈	
retrograde	10704 Apr 22 12:07	23° る 20'13		evening set	10710 Jan 16 11:59	16° ≈ 30′20	
opposition	10704 Jul 05 11:04	21° る 16'44	0°25'44				
min. Earth dist.	10704 Jul 05 23:34	21° る 15'22	17.32845 AU	conjunction	10710 Feb 01 23:55	17° ≈ 32'00	-0°03'18
direct	10704 Sep 18 18:33	19° る 11'05		minimum elong	10710 Feb 01 23:55	17° ≈ 32'00	0°02'54
evening set	10704 Dec 22 14:14	22° る 38'28		behind sun begin	10710 Feb 01 17:13	17° ≈ 30'59	
				behind sun end	10710 Feb 02 06:38	17° ≈ 33'02	
conjunction	10705 Jan 08 04:49	23° る 40'25	0°20'45	max. Earth dist.	10710 Feb 01 12:46	17° ≈ 30'16	19.34480 AU
minimum elong	10705 Jan 08 04:49	23° る 40'25	0°21'17	morning rise	10710 Feb 18 09:14	18° ≈ 33'19	
max. Earth dist.	10705 Jan 07 15:00	23° る 38'16	19.32188 AU	retrograde	10710 May 21 13:58	21° ≈ 56′19	
morning rise	10705 Jan 24 17:36	24° る 42'09		opposition	10710 Aug 03 12:01	19° ≈ 53'37	-0°06'14
retrograde	10705 Apr 27 13:48	28° පි 06'13		min. Earth dist.	10710 Aug 03 22:14	19° ≈ 52'30	17.35479 AU
opposition	10705 Jul 10 10:43	26° පි 02'46	0°20'38	direct	10710 Oct 18 09:50	17° ≈ 48'00	
min. Earth dist.	10705 Jul 10 21:59	26° පි 01'32	17.31717 AU	evening set	10711 Jan 21 15:51	21°≈16'14	
direct	10705 Sep 23 21:41	23° ප් 57'00		-			
evening set	10705 Dec 27 18:48	27° る 24'43		conjunction	10711 Feb 07 02:56	22° ≈ 17'45	-0°08'08
Č				minimum elong	10711 Feb 07 02:56	22°≈17'45	0°07'45
conjunction	10706 Jan 13 08:57	28° る 26'41	0°16'07	behind sun begin	10711 Feb 06 20:53	22°≈16'49	
minimum elong	10706 Jan 13 08:57	28° る 26'41	0°16'39	behind sun end	10711 Feb 07 08:58	22°≈18'40	
max. Earth dist.	10706 Jan 12 19:17		19.31387 AU	max. Earth dist.	10711 Feb 06 15:15		19.36586 AU
morning rise	10706 Jan 29 21:09	29° る 28'23		morning rise	10711 Feb 23 11:33	23°≈18'54	
<i>5</i>	/ =//			<i>3</i>			

page 10

10717 Sep 05 10:36

opposition

22°\dagger49'06 -0°40'40

		• •					
conjunction	10724 Apr 07 22:39	22° Y 16'50		minimum elong	10730 May 04 09:06	18° 8 21'19	
minimum elong	10724 Apr 07 22:39	22° Y 16'50		max. Earth dist.	10730 May 04 14:41	_	20.38365 AU
max. Earth dist.	10724 Apr 07 23:49		19.99233 AU	morning rise	10730 May 20 03:39	19° 8 17'28	
morning rise	10724 Apr 23 20:08	23° Y 14'35		retrograde	10730 Aug 19 19:22	22° 8 27'33	
retrograde	10724 Jul 24 07:33	26° Y 28'52		opposition	10730 Nov 03 20:35	20° 8 28'26	-1°05'06
opposition	10724 Oct 07 12:59	24° Y 28'47	-1°01'29	min. Earth dist.	10730 Nov 03 13:49	20° 8 29'08	18.41454 AU
min. Earth dist.	10724 Oct 07 10:44	24° Y 29'01	18.02591 AU	direct	10731 Jan 20 00:05	18° 8 27'55	
direct	10724 Dec 23 14:03	22°Υ26'24	10.02071110	evening set	10731 Apr 23 00:36	21° 8 39'27	
evening set	10724 Dec 23 14:03 10725 Mar 27 15:41	25° Υ 44'26		evening set	10/31 Apr 23 00.30	21 03727	
evening set	10/23 Wai 2/ 13.41	23 44 20			10721 M 00 10 55	220 425120	0050127
	10705 1 10 14 04	0.0000.001.1	005605	conjunction	10731 May 08 19:55	22° 8 35'30	
conjunction	10725 Apr 12 14:34	26° ℃ 42'11		minimum elong	10731 May 08 19:55	22° 8 35'30	
minimum elong	10725 Apr 12 14:33	26° Y ′42'11	0°56'18	max. Earth dist.	10731 May 09 03:14	_	20.44490 AU
max. Earth dist.	10725 Apr 12 16:49		20.05941 AU	morning rise	10731 May 24 14:03	23° 8 31'24	
morning rise	10725 Apr 28 11:20	27° Y 39'39		retrograde	10731 Aug 24 05:47	26° 8 40'51	
	10725 Jun 13 17:50	9° 8		opposition	10731 Nov 08 11:42	24° 8 41'51	-1°04'26
retrograde	10725 Jul 28 22:15	0° 8 53'12		min. Earth dist.	10731 Nov 08 04:54	24° 8 42'32	18.47541 AU
	10725 Sep 13 22:51	30° ŖƳ		direct	10732 Jan 24 15:04	22° 8 41'37	
opposition	10725 Oct 12 07:51	28° Y 53'21	-1°03'02	evening set	10732 Apr 26 10:53	25° 8 52'06	
min. Earth dist.	10725 Oct 12 05:50		18.09310 AU			0	
direct	10725 Dec 28 08:22	26° Υ 51'19	10.07510710	conjunction	10732 May 12 05:40	26° 8 47'54	-0°57'41
direct	10726 Mar 29 23:00	0°8		minimum elong	•	26° 8 47'54	
				•	10732 May 12 05:40		
evening set	10726 Apr 01 07:27	0° 8 08'18		max. Earth dist.	10732 May 12 13:12		20.50540 AU
				morning rise	10732 May 27 23:42	27° 8 43'35	
conjunction	10726 Apr 17 05:36	1° 8 05'44			10732 Jul 13 01:08	Π °0	
minimum elong	10726 Apr 17 05:35	1° 8 05'44	0°57'34	retrograde	10732 Aug 27 18:26	0° ∏ 52'28	
max. Earth dist.	10726 Apr 17 08:16	1° 8 06'08	20.12643 AU		10732 Oct 14 04:09	30°₽ ႘	
morning rise	10726 May 03 01:52	2° 8 02'55		opposition	10732 Nov 12 02:00	28° 8 53'34	-1°03'25
retrograde	10726 Aug 02 14:13	5° 8 15'46		min. Earth dist.	10732 Nov 11 17:14	28° 8 54'28	18.53551 AU
opposition	10726 Oct 17 02:02	3° 8 16'07	-1°04'11	direct	10733 Jan 28 05:31	26° 8 53'39	
min. Earth dist.	10726 Oct 16 22:15		18.15974 AU		10733 Apr 29 22:43	Π°	
direct	10727 Jan 02 04:11	1° 8 14'25		evening set	10733 Apr 30 20:25	0° I 03'08	
evening set	10727 Apr 05 22:21	4° 8 30'19		evening set	10755 11p1 50 20.25	0 205 00	
evening set	10/2/ Apr 03 22.21	4 03017		conjunction	10733 May 16 15:00	0° I I58'42	0°56'38
· · · · · · · · · · · · ·	10727 4 21 10.40	5° 8 27'28	0050113	minimum elong	10733 May 16 14:59	0° П 58'42	
conjunction	10727 Apr 21 19:49	_		Č	•		
minimum elong	10727 Apr 21 19:49	5° 8 27'28		max. Earth dist.	10733 May 17 00:21		20.56497 AU
max. Earth dist.	10727 Apr 21 23:40	_	20.19253 AU	morning rise	10733 Jun 01 08:44	1° Ⅲ 54'12	
morning rise	10727 May 07 15:27	6° 8 24'22		retrograde	10733 Sep 01 03:46	5° Ⅱ 02'30	
retrograde	10727 Aug 07 03:39	9° 8 36'31		opposition	10733 Nov 16 15:40	3° Ⅱ 03'46	
opposition	10727 Oct 21 19:47	7° 8 37'02	-1°04'58	min. Earth dist.	10733 Nov 16 06:55	3° Ⅱ 04'39	18.59455 AU
min. Earth dist.	10727 Oct 21 16:20	7° 8 37'23	18.22535 AU	direct	10734 Feb 01 18:44	1° 耳 04'11	
direct	10728 Jan 06 21:33	5° 8 35'39		evening set	10734 May 05 05:23	4° Ⅱ 12'42	
evening set	10728 Apr 09 12:22	8° 8 50'28					
•	•			conjunction	10734 May 20 23:34	5° Ⅱ 08'04	-0°55'17
conjunction	10728 Apr 25 09:09	9° 8 47'19	-0°58'46	minimum elong	10734 May 20 23:34	5° Ⅱ 08'04	0°55'47
minimum elong	10728 Apr 25 09:09	9° 8 47'19		max. Earth dist.	10734 May 21 08:50		20.62342 AU
max. Earth dist.	10728 Apr 25 13:11		20.25760 AU	morning rise	10734 Jun 05 17:20	6° ∏ 03'22	20.023 .2 .10
morning rise	10728 May 11 04:24	10° 8 43'58	20.23700 AC	retrograde	10734 Sep 05 15:44	9° П 11'11	
-	•			•	-		1900/24
retrograde	10728 Aug 10 18:10	13° 8 55'24	1905122	opposition	10734 Nov 21 04:47	7° Ⅱ 12'35	
opposition	10728 Oct 25 12:45	11° 8 56'04		min. Earth dist.	10734 Nov 20 18:24		18.65219 AU
min. Earth dist.	10728 Oct 25 07:31		18.28973 AU	direct	10735 Feb 06 07:53	5° Ⅱ 13'20	
direct	10729 Jan 10 15:42	9° 8 55'00		evening set	10735 May 09 13:32	8° Ⅱ 20'57	
evening set	10729 Apr 14 01:15	13° 8 08'42					
				conjunction	10735 May 25 07:35	9° Ⅱ 16′07	-0°53'40
conjunction	10729 Apr 29 21:34	14° 8 05'17	-0°58'59	minimum elong	10735 May 25 07:35	9° Ⅱ 16′07	0°54'10
minimum elong	10729 Apr 29 21:34	14° 8 05'17	0°59'21	max. Earth dist.	10735 May 25 18:37	9° Ⅱ 17'44	20.68005 AU
max. Earth dist.	10729 Apr 30 03:03	14° 8 06'06	20.32124 AU	morning rise	10735 Jun 10 01:09	10° Ⅱ 11'15	
morning rise	10729 May 15 16:21	15° 8 01'40		retrograde	10735 Sep 10 00:05	13° Ⅱ 18'36	
Ü	10729 May 15 05:00	15° 8		opposition	10735 Nov 25 17:35	11° Ⅱ 20'11	-0°58'26
retrograde	10729 Aug 15 06:05	18° 8 12'25		min. Earth dist.	10735 Nov 25 07:15		18.70773 AU
opposition	10729 Oct 30 05:09	16° 8 13'12	-1°05'26	direct	10736 Feb 10 19:37	9° Ⅲ 21'15	-0.,0,,0110
min. Earth dist.	10729 Oct 30 00:12		18.35273 AU	evening set	10736 May 12 21:18	12° Ⅱ 21'13	
mm. Barui dist.			10.33213 AU	evening set	10130 Way 12 21.18	12 112800	
t' .	10729 Dec 01 05:12	15°R 8			1072634 20 17.05	120 112015	0051146
direct	10730 Jan 15 07:55	14° 8 12'25		conjunction	10736 May 28 15:02	13° Ⅱ 22'58	
	10730 Feb 28 01:32	15° 8		minimum elong	10736 May 28 15:02	13° Ⅱ 22'58	
evening set	10730 Apr 18 13:24	17° 8 25'01		max. Earth dist.	10736 May 29 01:49		20.73448 AU
				morning rise	10736 Jun 13 08:47	14° Ⅱ 17'57	
conjunction	10730 May 04 09:06	18° 8 21'19	-0°58'52	retrograde	10736 Sep 13 11:14	17° Ⅱ 24'53	

10749 Jul 19 13:05

10749 Jul 19 13:05

conjunction

minimum elong

5°**Q**32'04 -0°09'29

5°**Ω**32'04 0°09'58

10743 Mar 11 16:04

10743 Jun 10 15:08

7°9546'55

10°5548'43

direct

evening set

		0					
behind sun begin	10749 Jul 19 07:44	5° Ω 31'19		morning rise	10754 Aug 24 18:06	26° £ 22'06	
behind sun end	10749 Jul 19 18:26	5° Ω 32'49		retrograde	10754 Nov 26 13:24	29° £ 28'43	
max. Earth dist.	10749 Jul 20 02:42		21.06547 AU	opposition	10755 Feb 12 01:10	27° Ω 29'54	
morning rise	10749 Aug 04 11:06	6° Ω 26′25		min. Earth dist.	10755 Feb 11 15:45		18.98633 AU
retrograde	10749 Nov 05 16:33	9° Ω 31'30		direct	10755 Apr 28 18:09	25° Ω 32'54	
opposition	10750 Jan 22 08:55	7° Ω 33'10	-0°08'13	evening set	10755 Jul 28 00:12	28° £ 33'14	
min. Earth dist.	10750 Jan 21 20:31	7° Ω 34'24	19.06443 AU				
direct	10750 Apr 08 13:57	5° Ω 36′16		conjunction	10755 Aug 12 23:34	29° Ω 27'52	0°15'01
evening set	10750 Jul 07 21:28	8° Ω 36′02		minimum elong	10755 Aug 12 23:34	29° Ω 27'52	0°14'40
				behind sun begin	10755 Aug 12 20:46	29° Ω 27'29	
conjunction	10750 Jul 23 17:55	9° Ω 30′09	-0°05'27	behind sun end	10755 Aug 13 02:21	29° Ω 28'16	
minimum elong	10750 Jul 23 17:56	9° Ω 30′09	0°05'56	max. Earth dist.	10755 Aug 13 09:46	29° Ω 29'19	20.97115 AU
behind sun begin	10750 Jul 23 11:39	9° Ω 29'17			10755 Aug 22 07:33	0° m ⊅	
behind sun end	10750 Jul 24 00:13	9° Ω 31'02		morning rise	10755 Aug 29 01:22	0° m 22'53	
max. Earth dist.	10750 Jul 24 06:17	9° Ω 31'55	21.06223 AU	retrograde	10755 Nov 30 22:08	3°m/29'53	
morning rise	10750 Aug 08 16:42	10° Ω 24'35		opposition	10756 Feb 16 09:21	1° mp 30'52	0°18'46
retrograde	10750 Nov 10 01:22	13° Ω 29'54		min. Earth dist.	10756 Feb 16 00:20		18.95481 AU
opposition	10751 Jan 26 16:55	11°Ω31'31	-0°03'43	Time Darvir Gibt.	10756 Mar 30 05:59	30°RΩ	10.90 101110
min. Earth dist.	10751 Jan 26 04:51	• • •	19.05901 AU	direct	10756 May 02 00:33	29° Ω 33'43	
direct	10751 Apr 12 18:20	9° Ω 34'41	17.03701710	direct	10756 Jun 03 04:42	0° m)	
evening set	10751 Apr 12 18:20 10751 Jul 12 02:01	$12^{\circ}\Omega 34'26$		evening set	10756 Jul 31 06:36	2°Mp34'17	
evening set	10/31 Jul 12 02.01	12 6634 20		evening set	10/30 Jul 31 00.30	2 IIJ 34 17	
conjunction	10751 Jul 27 23:06	13° Ω 28'38	-0°01'22	conjunction	10756 Aug 16 06:29	3° m 29'04	0°18'58
minimum elong	10751 Jul 27 23:07	13° Ω 28'38		minimum elong	10756 Aug 16 06:28	3° m) 29'04	0°18'41
behind sun begin	10751 Jul 27 16:31	13° Ω 27'43	0 01 40	max. Earth dist.	10756 Aug 16 14:51		20.93739 AU
behind sun end	10751 Jul 28 05:42	$13^{\circ}\Omega 29'33$		morning rise	10756 Sep 01 09:10	4° m) 24'15	20.73737 AU
			21.05445 AU	-	_		
max. Earth dist.	10751 Jul 28 12:15	$13^{\circ} 03030$ $14^{\circ} \Omega 23'09$	21.05445 AU	retrograde	10756 Dec 04 08:21	7° Mp 31'40	0022107
morning rise	10751 Aug 12 22:19			opposition	10757 Feb 19 17:40	5° My 32'24	
	10751 Aug 24 04:15	15° Ω		min. Earth dist.	10757 Feb 19 09:41	-•	18.91891 AU
retrograde	10751 Nov 14 09:18	17° Ω 28'44		direct	10757 May 06 07:05	3° m/35'03	
asc. node	10751 Nov 26 16:32	17° Ω 25'07		evening set	10757 Aug 04 13:17	6° Mp 35′57	
opposition	10752 Jan 31 00:55	15° Ω 30'19					
min. Earth dist.	10752 Jan 30 13:13		19.04877 AU	conjunction	10757 Aug 20 13:57	7° m 30'54	
	10752 Feb 12 18:58	15°R Ω		minimum elong	10757 Aug 20 13:56	7° m 30'54	0°22'35
direct	10752 Apr 16 00:56	13° Ω 33'30		max. Earth dist.	10757 Aug 20 22:50		20.89941 AU
	10752 Jun 14 22:33	15° Ω		morning rise	10757 Sep 05 17:08	8° Mp 26'15	
evening set	10752 Jul 15 07:10	16° Ω 33′20		retrograde	10757 Dec 08 17:42	11° m 34'06	
				opposition	10758 Feb 24 01:59	9° ™ 34'37	0°27'22
conjunction	10752 Jul 31 04:39	17° Ω 27'37	0°02'51	min. Earth dist.	10758 Feb 23 18:10	9° m ,35′24	18.87905 AU
minimum elong	10752 Jul 31 04:38	17° Ω 27'37	0°02'26	direct	10758 May 10 14:01	7° m 37'03	
behind sun begin	10752 Jul 30 22:02	17° Ω 26'42		evening set	10758 Aug 08 20:35	10° Mp 38'21	
behind sun end	10752 Jul 31 11:13	17° Ω 28'32					
max. Earth dist.	10752 Jul 31 16:06	17° Ω 29'15	21.04176 AU	conjunction	10758 Aug 24 21:43	11° m 33'28	0°26'38
morning rise	10752 Aug 16 04:38	18° Ω 22'14		minimum elong	10758 Aug 24 21:43	11° m 33'28	0°26'25
retrograde	10752 Nov 17 18:52	21° Ω 28′09		max. Earth dist.	10758 Aug 25 04:57	11° m 34'30	20.85797 AU
opposition	10753 Feb 03 08:50	19° Ω 29'37	0°05'20	morning rise	10758 Sep 10 01:46	12° m 29'00	
min. Earth dist.	10753 Feb 02 21:57	19° Ω 30'43	19.03352 AU	retrograde	10758 Dec 13 03:55	15° m 37'22	
direct	10753 Apr 20 05:44	17° Ω 32'47		opposition	10759 Feb 28 10:41	13° m 37'37	0°31'30
evening set	10753 Jul 19 12:31	20° Ω 32'45		min. Earth dist.	10759 Feb 28 03:49		18.83615 AU
-				direct	10759 May 14 20:41	11° m)39'51	
conjunction	10753 Aug 04 10:42	21° Ω 27'09	0°06'57	evening set	10759 Aug 13 04:09	14° mp 41'36	
minimum elong	10753 Aug 04 10:42	21° Ω 27'08	0°06'33	3		4	
behind sun begin	10753 Aug 04 04:30	21° Ω 26'17		conjunction	10759 Aug 29 06:09	15° Mp 36'55	0°30'18
behind sun end	10753 Aug 04 16:54	21° Ω 28'00		minimum elong	10759 Aug 29 06:08	15° Mp 36'55	0°30'06
max. Earth dist.	10753 Aug 04 10:54 10753 Aug 04 22:28		21.02370 AU	max. Earth dist.	10759 Aug 29 13:59		20.81358 AU
morning rise	10753 Aug 04 22:20 10753 Aug 20 11:10	22° Ω 21'53	21.02370710	morning rise	10759 Sep 14 10:44	16° M) 32'38	20.01330710
retrograde	10753 Aug 20 11:10 10753 Nov 22 03:18	$25^{\circ}\Omega 28'07$		retrograde	10759 Dec 17 14:50	10 m/32 38 19° m/41'32	
		23° Ω 29'29	0°09'51	•		-	0°35'29
opposition min. Earth dist.	10754 Feb 07 16:55 10754 Feb 07 06:33		19.01263 AU	opposition min. Earth dist.	10760 Mar 03 19:30	17° Mp 41'34	
			19.01263 AU		10760 Mar 03 12:40		18.79037 AU
direct	10754 Apr 24 12:11	21° Ω 32'37		direct	10760 May 18 04:24	15° Mp 43'35	
evening set	10754 Jul 23 18:14	24° Ω 32'44		evening set	10760 Aug 16 12:36	18° Mp 45'52	
conjunction	10754 Aug 08 16:49	25° Ω 27'14	0°11'00	conjunction	10760 Sep 01 15:08	19° m) 41'23	0°33'49
	•	$25^{\circ} \Omega 27'14$ $25^{\circ} \Omega 27'14$,	-	19° mp 41'23	0°33'49 0°33'40
minimum elong	10754 Aug 08 16:49		0 1036	minimum elong	10760 Sep 01 15:07		
behind sun begin	10754 Aug 08 11:42	25° Ω 26'31		max. Earth dist.	10760 Sep 01 21:13		20.76657 AU
behind sun end	10754 Aug 08 21:56	25° Ω 27'57	21.00011 411	morning rise	10760 Sep 17 20:35	20° m 37'19	
max. Earth dist.	10754 Aug 09 02:41	23 66 28'38	21.00011 AU	retrograde	10760 Dec 21 01:11	23° Mp 46'48	

	10772 N 14 02 27	1.60 M 0.2151		T' 4	10700 4 12 06 52	120 725105	
morning rise	10773 Nov 14 03:37	16°M02'51		direct	10780 Aug 12 06:53	12° 🗷 35'05	
retrograde	10774 Feb 16 11:40	19°M21'37	1005121	evening set	10780 Nov 13 18:51	15° ∡ 56'40	
opposition	10774 May 02 23:09	17° M ₁8'52					
min. Earth dist.	10774 May 03 03:55		17.93813 AU	conjunction	10780 Nov 30 09:44	16° ₹ '57'38	0°50'00
direct	10774 Jul 16 16:34	15°M16′53		minimum elong	10780 Nov 30 09:44	16° ∡ ′57'38	0°50'33
evening set	10774 Oct 16 22:55	18°M31'55		max. Earth dist.	10780 Nov 29 22:39	16° ₹ ¹55'56	19.57331 AU
				morning rise	10780 Dec 17 00:29	17° ∡ ′58'39	
conjunction	10774 Nov 02 11:08	19°M31'18	0°58'46	retrograde	10781 Mar 20 19:09	21° ∡ ′21'31	
minimum elong	10774 Nov 02 11:08	19°M31'18	0°59'10	opposition	10781 Jun 03 08:40	19° ∡ 18'13	0°54'17
max. Earth dist.	10774 Nov 02 04:19		19.90595 AU	min. Earth dist.	10781 Jun 03 18:48		17.54989 AU
morning rise	10774 Nov 19 00:43	20°M30'55		direct	10781 Aug 17 04:30	17° ∡ 14'16	
retrograde	10775 Feb 21 06:38	23°M50'21		evening set	10781 Nov 18 20:55	20° ∡ ′36'48	
opposition	10775 May 07 15:40	21°M47'27	1°05'07				
min. Earth dist.	10775 May 07 21:58	21°ML46'47	17.87478 AU	conjunction	10781 Dec 05 11:53	21° ∡ ³37'59	0°47'18
direct	10775 Jul 21 07:33	19° M ₊45'08		minimum elong	10781 Dec 05 11:53	21° ∡ ³37'59	0°47'51
evening set	10775 Oct 21 19:56	23°M01'17		max. Earth dist.	10781 Dec 04 23:02	21° ₮ 36′00	19.52684 AU
				morning rise	10781 Dec 22 02:49	22° ∡ ³39'10	
conjunction	10775 Nov 07 08:46	24°M00'57	0°58'13	retrograde	10782 Mar 25 18:55	26° ∡ ¹02'25	
minimum elong	10775 Nov 07 08:46	24°ML00'57	0°58'39	opposition	10782 Jun 08 05:44	23° х 59'03	0°51'07
max. Earth dist.	10775 Nov 07 01:21	23°M59'50	19.84393 AU	min. Earth dist.	10782 Jun 08 16:10	23° ∡ ¹57'55	17.50491 AU
morning rise	10775 Nov 23 22:46	25°M00'51		direct	10782 Aug 22 03:27	21° х 54'48	
retrograde	10776 Feb 26 04:38	28°M20'56		evening set	10782 Nov 23 23:38	25° ∡ 18'14	
opposition	10776 May 11 08:44	26°M17′55	1°04'19	, and the second			
min. Earth dist.	10776 May 11 14:41	26° ™ 17'17		conjunction	10782 Dec 10 14:56	26° х 19'36	0°44'17
direct	10776 Jul 25 01:26	24°M15'19		minimum elong	10782 Dec 10 14:56	26° х 19'36	0°44'51
evening set	10776 Oct 25 17:56	27°M32'35		max. Earth dist.	10782 Dec 10 02:27		19.48339 AU
evening sec	10770 000 23 17.50	27 1103233		morning rise	10782 Dec 27 05:38	27°×7'20'57	17.10337110
conjunction	10776 Nov 11 07:15	28°M32'32	0°57'17	morning rise	10783 Feb 17 23:47	0° ろ	
minimum elong	10776 Nov 11 07:15	28°M32'32		retrograde	10783 Mar 30 18:43	0° ろ 44'30	
max. Earth dist.	10776 Nov 10 23:13		19.78446 AU	retrograde	10783 May 11 09:24	30°R.∡7	
morning rise	10776 Nov 10 23:13	29°M32'41	19.76440 AU	opposition	10783 Jun 13 03:13	28° ∡ ¹41'05	0°47'36
morning rise		0° √		min. Earth dist.			17.46315 AU
	10776 Dec 05 16:14				10783 Jun 13 14:23	26° ₹ '36'32	17.40313 AU
retrograde	10777 Mar 02 00:48	2° 🗷 53'25	1002107	direct	10783 Aug 27 02:30	26° メ '36'32	
opposition	10777 May 16 02:36	0° × 750'19	1°03'07		10783 Nov 28 21:39		
min. Earth dist.	10777 May 16 10:02		17.75600 AU	evening set	10783 Nov 29 03:01	0° る 00'49	
		30°RM₊					
	10777 Jun 05 03:09				10502 D 15 10 15	1070001	0040155
direct	10777 Jul 29 18:24	28°M47'27		conjunction	10783 Dec 15 18:15	1° ට 02'21	0°40'57
	10777 Jul 29 18:24 10777 Sep 20 21:16	28°M47′27 0° √		minimum elong	10783 Dec 15 18:15	1° る 02'21	0°41'32
direct evening set	10777 Jul 29 18:24	28°M47'27		minimum elong max. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01	1°පි02'21 1°පි00'08	
evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49	28°M.47'27 0°⊀ 2°⊀05'50		minimum elong max. Earth dist. morning rise	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59	1°ට02'21 1°ට00'08 2°ට03'49	0°41'32
	10777 Jul 29 18:24 10777 Sep 20 21:16	28°M.47'27 0° ⊀¹ 2° ⊀¹05'50 3° ⊀¹06'04	0°56'00	minimum elong max. Earth dist. morning rise retrograde	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02	1°ට02'21 1°ට00'08 2°ට03'49 5°ට27'37	0°41'32 19.44359 AU
evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49	28°M47'27 0° ₹ 2° ₹ 05'50 3° ₹ 06'04 3° ₹ 06'04	0°56'30	minimum elong max. Earth dist. morning rise	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59	1°ට02'21 1°ට00'08 2°ට03'49	0°41'32
evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34	28°M.47'27 0° ⊀¹ 2° ⊀¹05'50 3° ⊀¹06'04		minimum elong max. Earth dist. morning rise retrograde	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02	1° ති02'21 1° ති00'08 2° ති03'49 5° ති27'37 3° ති24'08 3° ති22'52	0°41'32 19.44359 AU
evening set conjunction minimum elong	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34	28°M47'27 0° ₹ 2° ₹ 05'50 3° ₹ 06'04 3° ₹ 06'04	0°56'30	minimum elong max. Earth dist. morning rise retrograde opposition	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14	1°る02'21 1°る00'08 2°る03'49 5°る27'37 3°る24'08 3°る22'52 1°る19'18	0°41'32 19.44359 AU 0°43'43
evening set conjunction minimum elong max. Earth dist.	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34	28°M47'27 0° ₹ 2° ₹ 05'50 3° ₹ 06'04 3° ₹ 06'04 3° ₹ 04'41	0°56'30	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51	1° ති02'21 1° ති00'08 2° ති03'49 5° ති27'37 3° ති24'08 3° ති22'52	0°41'32 19.44359 AU 0°43'43
evening set conjunction minimum elong max. Earth dist. morning rise	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06	28°M.47'27 0° ₹ 2° ₹ 05'50 3° ₹ 06'04 3° ₹ 06'04 3° ₹ 04'41 4° ₹ 06'27	0°56'30	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24	1°る02'21 1°る00'08 2°る03'49 5°る27'37 3°る24'08 3°る22'52 1°る19'18	0°41'32 19.44359 AU 0°43'43
evening set conjunction minimum elong max. Earth dist. morning rise retrograde	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38	28°M.47'27 0°\$\frac{1}{2}\circ\frac{2}{3}\circ\frac{3}{5}\circ\frac{5}{5}\text{0}\frac{5}{6}\text{0}\frac{4}{3}\circ\frac{2}{3}\circ\frac{4}{3}\text{0}\frac{6}{2}\text{0}\frac{2}{7}\circ\frac{2}{3}\text{2}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\text{3}\text{3}\frac{4}{3}\text{3}\te	0°56'30 19.72794 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24	1°る02'21 1°る00'08 2°る03'49 5°る27'37 3°る24'08 3°る22'52 1°る19'18	0°41'32 19.44359 AU 0°43'43 17.42540 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03	28°M.47'27 0°\$\frac{1}{2}\circ\frac{2}{3}\circ\frac{3}{5}\circ\frac{5}{5}\text{0}\frac{5}{6}\text{0}\frac{4}{3}\circ\frac{2}{3}\circ\frac{4}{3}\text{0}\frac{6}{2}\text{0}\frac{2}{7}\circ\frac{2}{3}\text{2}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\frac{4}{3}\text{3}\text{3}\text{3}\frac{4}{3}\text{3}\te	0°56'30 19.72794 AU 1°01'30	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32	1°る02'21 1°る00'08 2°る03'49 5°る27'37 3°る24'08 3°る22'52 1°る19'18 4°る44'22	0°41'32 19.44359 AU 0°43'43 17.42540 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21	28°M.47'27 0° \$\mathref{X}\$ 2° \$\mathref{X}\$05'50 3° \$\mathref{X}\$06'04 3° \$\mathref{X}\$06'04 4° \$\mathref{X}\$06'27 7° \$\mathref{X}\$27'48 5° \$\mathref{X}\$24'39 5° \$\mathref{X}\$23'52	0°56'30 19.72794 AU 1°01'30	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02	0°41'32 19.44359 AU 0°43'43 17.42540 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58	28°M.47'27 0° \$\tilde{\mathbb{A}}\) 2° \$\tilde{\mathbb{A}}\) 05'50 3° \$\tilde{\mathbb{A}}\) 06'04 3° \$\tilde{\mathbb{A}}\) 06'04 4° \$\tilde{\mathbb{A}}\) 06'27 7° \$\tilde{\mathbb{A}}\) 27'48 5° \$\tilde{\mathbb{A}}\) 24'39 5° \$\tilde{\mathbb{A}}\) 23'52 3° \$\tilde{\mathbb{A}}\) 21'31	0°56'30 19.72794 AU 1°01'30	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58	28°M.47'27 0° \$\tilde{\mathbb{A}}\) 2° \$\tilde{\mathbb{A}}\) 05'50 3° \$\tilde{\mathbb{A}}\) 06'04 3° \$\tilde{\mathbb{A}}\) 06'04 4° \$\tilde{\mathbb{A}}\) 06'27 7° \$\tilde{\mathbb{A}}\) 27'48 5° \$\tilde{\mathbb{A}}\) 24'39 5° \$\tilde{\mathbb{A}}\) 23'52 3° \$\tilde{\mathbb{A}}\) 21'31	0°56'30 19.72794 AU 1°01'30	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°546'57	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'00	0°56'30 19.72794 AU 1°01'30 17.70083 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32 10785 Jan 05 12:15	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°543'57 6°547'37	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'00 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30	0°56'30 19.72794 AU 1°01'30 17.70083 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32 10785 Jan 05 12:15 10785 Apr 08 19:39	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'00 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 08:32 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 24'39 5° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 1'00 7° \$\frac{1}{2}\cdot 1'30 7° \$\frac{1}{2}\cdot 1'30 7° \$\frac{1}{2}\cdot 1'30 7° \$\frac{1}{2}\cdot 1'30 7° \$\frac{1}{2}\cdot 1'30 7° \$\frac{1}{2}\cdot 1'30	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24	28°M.47'27 0° \$\tilde{X}\$ 2° \$\tilde{X}\$05'50 3° \$\tilde{X}\$06'04 3° \$\tilde{X}\$06'27 7° \$\tilde{X}\$27'48 5° \$\tilde{X}\$24'39 5° \$\tilde{X}\$23'52 3° \$\tilde{X}\$21'31 6° \$\tilde{X}\$41'00 7° \$\tilde{X}\$41'30 7° \$\tilde{X}\$40'05 8° \$\tilde{X}\$42'07	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08	28°M.47'27 0° \$\tilde{X}\$ 2° \$\tilde{X}\$05'50 3° \$\tilde{X}\$06'04 3° \$\tilde{X}\$06'04 3° \$\tilde{X}\$06'27 7° \$\tilde{X}\$27'48 5° \$\tilde{X}\$23'52 3° \$\tilde{X}\$21'31 6° \$\tilde{X}\$41'00 7° \$\tilde{X}\$41'30 7° \$\tilde{X}\$40'05 8° \$\tilde{X}\$42'07 12° \$\tilde{X}\$04'02 10° \$\tilde{X}\$00'50	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06	28°M.47'27 0° \$\tilde{X}\$ 2° \$\tilde{X}\$05'50 3° \$\tilde{X}\$06'04 3° \$\tilde{X}\$06'04 3° \$\tilde{X}\$06'27 7° \$\tilde{X}\$27'48 5° \$\tilde{X}\$23'52 3° \$\tilde{X}\$21'31 6° \$\tilde{X}\$41'00 7° \$\tilde{X}\$41'30 7° \$\tilde{X}\$40'05 8° \$\tilde{X}\$42'07 12° \$\tilde{X}\$04'02 10° \$\tilde{X}\$00'50	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set evening set max. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 21:56 10784 Dec 19 21:56 10784 Dec 19 21:56 10785 Jun 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35 10785 Dec 24 11:02	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 21'39 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'00 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'02 10° \$\frac{1}{2}\cdot 00'50 9° \$\frac{1}{2}\cdot 59'53	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Aug 31 02:24 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 08:32 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45 10°528'15	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 24'39 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:56 10784 Dec 19 21:56 10784 Dec 19 21:56 10784 Dec 19 21:56 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Dec 08 10:35 10785 Dec 24 11:02	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45 10°530'32 10°530'32	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 09 17:21	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 21'31 10° \$\frac{1}{2}\cdot 07'50 9° \$\frac{1}{2}\cdot 57'27 11° \$\frac{1}{2}\cdot 18'00	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:56 10784 Dec 19 21:56 10784 Dec 19 21:56 10784 Dec 19 21:55 10785 Jan 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jan 10 15:56	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°546'02 5°543'57 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45 10°530'32 10°530'32 11°532'12	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 09 17:21	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'02 10° \$\frac{1}{2}\cdot 00'50 9° \$\frac{1}{2}\cdot 57'27 11° \$\frac{1}{2}\cdot 18'45	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU 0°59'30 17.64811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10785 Jun 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jan 10 15:56 10786 Apr 13 20:16	1°502'21 1°500'08 2°503'49 5°527'37 3°524'08 3°522'52 1°519'18 4°544'22 5°546'02 5°546'02 5°546'02 5°549'357 6°547'37 10°511'36 8°508'05 8°506'49 6°503'00 9°528'45 10°530'32 10°530'32 11°532'12 14°556'19	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26 0°34'01
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 09 17:21 10779 Nov 26 07:50 10779 Nov 26 07:50	28°M.47'27 0° \$\frac{1}{2}\cdot 205'50 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'04 3° \$\frac{1}{2}\cdot 06'27 7° \$\frac{1}{2}\cdot 27'48 5° \$\frac{1}{2}\cdot 23'52 3° \$\frac{1}{2}\cdot 21'31 6° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'30 7° \$\frac{1}{2}\cdot 41'05 8° \$\frac{1}{2}\cdot 20'7 12° \$\frac{1}{2}\cdot 04'02 10° \$\frac{1}{2}\cdot 05'50 9° \$\frac{1}{2}\cdot 57'27 11° \$\frac{1}{2}\cdot 18'45 12° \$\frac{1}{2}\cdot 18'45	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU 0°59'30 17.64811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10785 Jun 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jun 10 15:56 10786 Apr 13 20:16 10786 Jun 26 22:25	1° 502'21 1° 500'08 2° 503'49 5° 527'37 3° 524'08 3° 522'52 1° 519'18 4° 544'22 5° 546'02 5° 546'02 5° 546'02 5° 546'02 5° 546'02 5° 549'357 6° 547'37 10° 511'36 8° 506'49 6° 503'00 9° 528'45 10° 528'15 10° 530'32 10° 530'32 11° 532'12 14° 556'19 12° 552'46	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26 0°34'01
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 04 16:33 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 09 17:21 10779 Nov 26 07:50 10779 Nov 26 07:50 10779 Nov 25 20:52	28°M.47'27 0° \$\frac{1}{2}^\circ \nders 05'50 3° \$\tilde{\pi}06'04 3° \$\tilde{\pi}06'04 3° \$\tilde{\pi}06'27 7° \$\tilde{\pi}27'48 5° \$\tilde{\pi}23'52 3° \$\tilde{\pi}21'31 6° \$\tilde{\pi}41'30 7° \$\tilde{\pi}41'30 7° \$\tilde{\pi}41'30 7° \$\tilde{\pi}40'05 8° \$\tilde{\pi}42'07 12° \$\tilde{\pi}04'02 10° \$\tilde{\pi}00'50 9° \$\tilde{\pi}59'53 7° \$\tilde{\pi}57'27 11° \$\tilde{\pi}18'45 12° \$\tilde{\pi}18'45 12° \$\tilde{\pi}17'04	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU 0°59'30 17.64811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10785 Jun 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jun 10 15:56 10786 Jun 26 22:25 10786 Jun 27 10:33	1° 502'21 1° 500'08 2° 503'49 5° 527'37 3° 524'08 3° 522'52 1° 519'18 4° 544'22 5° 546'02 5° 546'02 5° 543'57 6° 547'37 10° 511'36 8° 508'05 8° 506'49 6° 503'00 9° 528'45 10° 530'32 10° 530'32 11° 532'12 14° 556'19 12° 552'46 12° 551'26	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26 0°34'01
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 26 07:50 10779 Nov 26 07:50 10779 Nov 25 20:52 10779 Dec 12 22:43	28°M.47'27 0° X 2° X 05'50 3° X 06'04 3° X 06'04 3° X 06'27 7° X 27'48 5° X 24'39 5° X 23'52 3° X 21'31 6° X 41'30 7° X 41'30 7° X 40'05 8° X 42'07 12° X 04'02 10° X 00'50 9° X 59'53 7° X 57'27 11° X 18'45 12° X 18'45 12° X 17'04 13° X 19'34	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU 0°59'30 17.64811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10785 Jun 21 23:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jun 10 15:56 10786 Jun 26 22:25 10786 Jun 27 10:33 10786 Sep 10 02:58	1° 502'21 1° 500'08 2° 503'49 5° 527'37 3° 524'08 3° 522'52 1° 519'18 4° 544'22 5° 546'02 5° 543'57 6° 547'37 10° 511'36 8° 506'49 6° 503'00 9° 528'45 10° 528'15 10° 530'32 11° 530'32 11° 530'32 11° 530'32 11° 555'246 12° 551'26 10° 547'26	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26 0°34'01
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 09 17:21 10779 Nov 26 07:50 10779 Nov 26 07:50 10779 Nov 25 20:52 10779 Dec 12 22:43 10780 Mar 15 20:18	28°M.47'27 0° X 2° X 05'50 3° X 06'04 3° X 06'04 3° X 06'27 7° X 27'48 5° X 24'39 5° X 23'52 3° X 21'31 6° X 41'00 7° X 41'30 7° X 40'05 8° X 42'07 12° X 04'02 10° X 00'50 9° X 59'53 7° X 57'27 11° X 18'45 12° X 18'45 12° X 17'04 13° X 19'34 16° X 42'00	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU 0°59'30 17.64811 AU 0°52'21 0°52'52 19.62250 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10785 Jun 05 12:15 10785 Apr 08 19:39 10785 Jun 21 23:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 08 10:35 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jun 10 15:56 10786 Jun 26 22:25 10786 Jun 27 10:33	1° 502'21 1° 500'08 2° 503'49 5° 527'37 3° 524'08 3° 522'52 1° 519'18 4° 544'22 5° 546'02 5° 546'02 5° 543'57 6° 547'37 10° 511'36 8° 508'05 8° 506'49 6° 503'00 9° 528'45 10° 530'32 10° 530'32 11° 532'12 14° 556'19 12° 552'46 12° 551'26	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26 0°34'01
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	10777 Jul 29 18:24 10777 Sep 20 21:16 10777 Oct 30 16:49 10777 Nov 16 06:34 10777 Nov 15 21:34 10777 Nov 15 21:34 10777 Dec 02 21:06 10778 Mar 06 23:38 10778 May 20 21:03 10778 May 21 04:21 10778 Aug 03 13:58 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 21 06:46 10778 Nov 20 21:28 10778 Dec 07 21:24 10779 Mar 11 21:08 10779 May 25 16:20 10779 May 26 01:06 10779 Aug 08 09:29 10779 Nov 26 07:50 10779 Nov 26 07:50 10779 Nov 25 20:52 10779 Dec 12 22:43	28°M.47'27 0° \$\frac{1}{2}^\circ \nderset{1}^\circ \nderset{1}^\ci	0°56'30 19.72794 AU 1°01'30 17.70083 AU 0°54'21 0°54'52 19.67397 AU 0°59'30 17.64811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct	10783 Dec 15 18:15 10783 Dec 15 04:01 10784 Jan 01 08:59 10784 Apr 03 19:02 10784 Jun 17 01:14 10784 Jun 17 12:51 10784 Dec 03 06:32 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10784 Dec 19 21:55 10785 Jun 21 23:39 10785 Jun 21 23:39 10785 Jun 22 11:18 10785 Sep 05 02:44 10785 Dec 24 11:02 10785 Dec 25 01:44 10785 Dec 25 01:44 10786 Jun 10 15:56 10786 Jun 26 22:25 10786 Jun 27 10:33 10786 Sep 10 02:58	1° 502'21 1° 500'08 2° 503'49 5° 527'37 3° 524'08 3° 522'52 1° 519'18 4° 544'22 5° 546'02 5° 543'57 6° 547'37 10° 511'36 8° 506'49 6° 503'00 9° 528'45 10° 528'15 10° 530'32 11° 530'32 11° 530'32 11° 530'32 11° 555'246 12° 551'26 10° 547'26	0°41'32 19.44359 AU 0°43'43 17.42540 AU 0°37'19 0°37'54 19.40795 AU 0°39'32 17.39200 AU 19.37707 AU 0°33'26 0°34'01 0°35'04 17.36380 AU

morning rise	10798 Mar 10 01:31	8°){ 42'40		direct	10804 Dec 05 12:07	5° Υ 41'51	
retrograde	10798 Jun 09 22:56	12°) €03'54		evening set	10805 Mar 10 03:34	9° Ƴ 04'01	
opposition	10798 Aug 23 00:13	10° 米 01'49					
min. Earth dist.	10798 Aug 23 08:34		17.46205 AU	conjunction	10805 Mar 26 05:48	10° Y 03′02	
direct	10798 Nov 07 06:49	7° ¥ 56'36		minimum elong	10805 Mar 26 05:47	10° Y 03′02	
evening set	10799 Feb 10 12:28	11° ∺ 23′26		max. Earth dist.	10805 Mar 26 03:47		19.79042 AU
				morning rise	10805 Apr 11 05:35	11° Y 01'41	
conjunction	10799 Feb 26 20:13	12°) €24'10		retrograde	10805 Jul 11 17:08	14° Y 18'14	
minimum elong	10799 Feb 26 20:13	12°) €24'10	0°26'46	opposition	10805 Sep 24 13:12	12° Y 17′26	
max. Earth dist.	10799 Feb 26 10:42	12° ¥ 22'41	19.48076 AU	min. Earth dist.	10805 Sep 24 14:25		17.82217 AU
morning rise	10799 Mar 15 01:20	13°) €24'30		direct	10805 Dec 10 09:30	10° Y 13'57	
retrograde	10799 Jun 14 20:41	16°) 45′07		evening set	10806 Mar 14 23:00	13° Ƴ 35′12	
opposition	10799 Aug 27 23:49	14°) (43′08					
min. Earth dist.	10799 Aug 28 07:00		17.50058 AU	conjunction	10806 Mar 31 00:27	14° Y 33'55	
direct	10799 Nov 12 08:32	12°) (38′02		minimum elong	10806 Mar 31 00:27	14° Υ 33'55	0°50'54
evening set	10800 Feb 15 13:07	16°) €04'14		max. Earth dist.	10806 Mar 30 23:52		19.85431 AU
. ,.	10000 M 02 20 06	1701/04/42	0021111	morning rise	10806 Apr 15 23:25	15° Υ 32'17	
conjunction	10800 Mar 02 20:06	17°) (04'43	-0°31'11 0°31'01	retrograde	10806 Jul 16 11:19	18° Υ 48'07 16° Υ 47'35	0057145
minimum elong	10800 Mar 02 20:06			opposition	10806 Sep 29 09:45		
max. Earth dist.	10800 Mar 02 12:45	1/° X 03'34 18° X 04'47	19.52145 AU	min. Earth dist.	10806 Sep 29 09:23	16° \ 4/3/	17.88683 AU
morning rise	10800 Mar 19 00:09			direct	10806 Dec 15 08:50	14° Y 44′29 18° Y 04'45	
retrograde	10800 Jun 18 18:01	21°) 24'45 19°) 22'53	0027155	evening set	10807 Mar 19 17:40	18" 1 04'45	
opposition	10800 Aug 31 23:14		-0°36°33 17.54346 AU		10007 A 04 10.10	19° Ƴ 03'09	0052101
min. Earth dist.	10800 Sep 01 05:41 10800 Nov 16 10:40	19° X 22°12	17.54340 AU	conjunction minimum elong	10807 Apr 04 18:10 10807 Apr 04 18:10	19° Y 03 09 19° Y 03 '09	0°53'10
direct		20°\(\frac{1}{43}\)'25		· ·			19.91960 AU
evening set	10801 Feb 19 12:54	20°π43′23		max. Earth dist.	10807 Apr 04 18:17	19° γ 03 10 20° γ 01'13	19.91900 AU
aaniunatian	10801 Mar 07 18:48	21°)(43'37	0°25'00	morning rise	10807 Apr 20 16:23 10807 Jul 21 03:09	20 Y 01 13 23°Υ16'22	
conjunction minimum elong	10801 Mar 07 18:47	21° X 43'37	0°35'00	retrograde opposition	10807 Jul 21 03:09 10807 Oct 04 05:54	$23 1622$ $21^{\circ} 16'04$	1000'00
max. Earth dist.	10801 Mar 07 11:36		19.56664 AU	min. Earth dist.	10807 Oct 04 05:34 10807 Oct 04 05:27		17.95276 AU
morning rise	10801 Mar 07 11:30 10801 Mar 23 22:05	21)(42 30 22°) (43'26	19.30004 AU	direct	10807 Dec 20 04:56	19° Y $13'$ 20	17.93270 AU
retrograde	10801 Jun 23 13:51	26°\(\frac{1}{4}\)320		evening set	10807 Dec 20 04:30 10808 Mar 23 11:23	22° Υ 32'36	
opposition	10801 Sep 05 22:10	24°) (01'00	-0°41'11	evening set	10000 Widi 23 11.23	22 1 32 30	
min. Earth dist.	10801 Sep 06 03:26		17.59106 AU	conjunction	10808 Apr 08 11:06	23° Y 30'41	-0°54'53
direct	10801 Nov 21 11:09	21° H 56'14	17.37100710	minimum elong	10808 Apr 08 11:06	23°\bar{Y}30'41	0°55'04
evening set	10802 Feb 24 11:49	25°\(\frac{1}{2}\)20'58		max. Earth dist.	10808 Apr 08 12:12		19.98589 AU
e venning see	10002100 21 11:19	23 /(2030		morning rise	10808 Apr 24 08:37	24° Y 28'28	17.70207110
conjunction	10802 Mar 12 16:57	26° ¥ 20'53	-0°38'51	retrograde	10808 Jul 24 20:16	27°\dagger42'53	
minimum elong	10802 Mar 12 16:56	26°\(\frac{1}{2}0'53		opposition	10808 Oct 08 01:23	25°\dagger42'50	-1°01'53
max. Earth dist.	10802 Mar 12 11:58		19.61649 AU	min. Earth dist.	10808 Oct 07 23:15		18.01919 AU
morning rise	10802 Mar 28 19:12	27°) €20'24		direct	10808 Dec 24 02:34	23° Y 40'27	
S	10802 May 21 09:55	$0^{\circ}\Upsilon$		evening set	10809 Mar 28 04:06	26° Y 58'39	
retrograde	10802 Jun 28 10:09	0° Ƴ 39'00		Ü			
Č	10802 Aug 06 09:28	30° ₹ ₩		conjunction	10809 Apr 13 03:03	27° Y 56'26	-0°56'25
opposition	10802 Sep 10 20:31	28°) 37′28	-0°45'10	minimum elong	10809 Apr 13 03:02	27° Y 56'26	0°56'39
min. Earth dist.	10802 Sep 11 00:35	28°) 37′02	17.64309 AU	max. Earth dist.	10809 Apr 13 04:59	27° Y 56'44	20.05229 AU
direct	10802 Nov 26 12:33	26°) 32′58		morning rise	10809 Apr 28 23:54	28° Y 53'56	
evening set	10803 Mar 01 10:04	29°) € 56'53			10809 May 18 10:05	9° 8	
	10803 Mar 02 06:39	0° Y		retrograde	10809 Jul 29 10:49	2° 8 07'39	
				opposition	10809 Oct 12 20:25	0° 8 07'47	-1°03'23
conjunction	10803 Mar 17 14:07	0° Y 56'31		min. Earth dist.	10809 Oct 12 18:28		18.08556 AU
minimum elong	10803 Mar 17 14:07	0° Y 56′31	0°42'15		10809 Oct 15 23:33	30° ₹Ƴ	
max. Earth dist.	10803 Mar 17 09:30	0° Y 55'48	19.67074 AU	direct	10809 Dec 28 20:46	28° Y 05'45	
morning rise	10803 Apr 02 15:35	1° Y 55'45			10810 Mar 07 22:16	9° 8	
retrograde	10803 Jul 03 04:39	5° Y 13′40		evening set	10810 Apr 01 20:02	1° 8 22'52	
opposition	10803 Sep 15 18:36	3° Y 12′21					
min. Earth dist.	10803 Sep 15 21:46		17.69948 AU	conjunction	10810 Apr 17 18:14	2° 8 20'21	
direct	10803 Dec 01 11:33	1° Υ ′08'10		minimum elong	10810 Apr 17 18:13	2° 8 20'21	
evening set	10804 Mar 05 07:09	4° Ƴ 31'14		max. Earth dist.	10810 Apr 17 20:42	_	20.11842 AU
				morning rise	10810 May 03 14:32	3° 8 17'34	
conjunction	10804 Mar 21 10:23	5° Y 30'33		retrograde	10810 Aug 03 02:59	6° 8 30'32	
minimum elong	10804 Mar 21 10:23	5° Y 30'33		opposition	10810 Oct 17 14:32	4° 8 30'52	
max. Earth dist.	10804 Mar 21 07:47		19.72902 AU	min. Earth dist.	10810 Oct 17 10:55		18.15128 AU
morning rise	10804 Apr 06 10:55	6° Y 29'30		direct	10811 Jan 02 17:02	2° 8 29'09	
retrograde	10804 Jul 06 23:57	9° ℃ 46'44		evening set	10811 Apr 06 10:59	5° 8 45'11	
opposition	10804 Sep 19 16:10	7° Υ 45'41			10011 4 00 00 0	cot 1	0050120
min. Earth dist.	10804 Sep 19 17:48	/~\Y'45'30	17.75935 AU	conjunction	10811 Apr 22 08:31	6° 8 42'21	-0~58′29

minimum elong	10811 Apr 22 08:31	6° 8 42'21	0°58'46	max. Earth dist.	10817 May 17 13:05	20Π15100	20.56035 AU
max. Earth dist.	10811 Apr 22 08:31 10811 Apr 22 12:01	· ·	20.18370 AU	morning rise	10817 May 17 13:03	2 П 1308 3° П 09'13	20.30033 AU
morning rise	10811 Apr 22 12.01 10811 May 08 04:14	7° \(\beta\) 39'18	20.16370 AU	-	10817 Juli 01 21:17 10817 Sep 01 16:22	6° П 17'32	
Č	•	10° 8 51'33		retrograde			1002104
retrograde	10811 Aug 07 15:52	8° 8 52'02	1005115	opposition	10817 Nov 17 04:03	4° Ⅱ 18'45	
opposition	10811 Oct 22 08:19	. •		min. Earth dist.	10817 Nov 16 19:09		18.59059 AU
min. Earth dist.	10811 Oct 22 04:58	_	18.21619 AU	direct	10818 Feb 02 06:58	2° Ⅱ 19'07	
direct	10812 Jan 07 09:32	6° 8 50'36		evening set	10818 May 05 17:49	5° Ⅱ 27'40	
evening set	10812 Apr 10 00:49	10° 8 05'30			1001031 01 10 02	60 Ta 2102	0055116
				conjunction	10818 May 21 12:03	6° Ⅱ 23'03	
conjunction	10812 Apr 25 21:42	11° 8 02'23		minimum elong	10818 May 21 12:03	6° Ⅲ 23'03	
minimum elong	10812 Apr 25 21:41	11° 8 02'23	0°59'20	max. Earth dist.	10818 May 21 21:40		20.62006 AU
max. Earth dist.	10812 Apr 26 01:40	11° 8 02'59	20.24820 AU	morning rise	10818 Jun 06 05:51	7° Ⅱ 18'21	
morning rise	10812 May 11 17:02	11° 8 59'03		retrograde	10818 Sep 06 03:25	10° ∏ 26′10	
	10812 Jul 22 04:30	15° 8		opposition	10818 Nov 21 17:09	8° Ⅲ 27'33	
retrograde	10812 Aug 11 07:03	15° 8 10'35		min. Earth dist.	10818 Nov 21 06:35		18.64933 AU
	10812 Aug 31 14:57	15° ₹8		direct	10819 Feb 06 20:20	6° Ⅱ 28'15	
opposition	10812 Oct 26 01:14	13° 8 11'11		evening set	10819 May 10 02:07	9° ∏ 35'54	
min. Earth dist.	10812 Oct 25 20:03		18.28018 AU			_	
direct	10813 Jan 11 04:28	11° 8 10'01		conjunction	10819 May 25 20:12	10° Ⅲ 31′04	
evening set	10813 Apr 14 13:46	14° 8 23'48		minimum elong	10819 May 25 20:12	10° Ⅱ 31'04	0°54'08
	10813 Apr 24 18:02	15° 8		max. Earth dist.	10819 May 26 07:24		20.67767 AU
				morning rise	10819 Jun 10 13:50	11° Ⅱ 26′12	
conjunction	10813 Apr 30 10:08	15° 8 20'24		retrograde	10819 Sep 10 12:38	14° Ⅲ 33'33	
minimum elong	10813 Apr 30 10:08	15° 8 20'24		opposition	10819 Nov 26 06:00	12° Ⅱ 35′06	
max. Earth dist.	10813 Apr 30 15:31	. •	20.31174 AU	min. Earth dist.	10819 Nov 25 19:40		18.70570 AU
morning rise	10813 May 16 04:59	16° 8 16'49		direct	10820 Feb 11 07:59	10° Ⅱ 36′08	
retrograde	10813 Aug 15 18:21	19° 8 27'37		evening set	10820 May 13 09:50	13° Ⅱ 42'53	
opposition	10813 Oct 30 17:26	17° 8 28'19				_	
min. Earth dist.	10813 Oct 30 12:27		18.34345 AU	conjunction	10820 May 29 03:38	14° ∏ 37'52	
direct	10814 Jan 15 19:28	15° 8 27'26		minimum elong	10820 May 29 03:38	14° Ⅲ 37'52	
evening set	10814 Apr 19 01:50	18° 8 40'06		max. Earth dist.	10820 May 29 14:33		20.73269 AU
				morning rise	10820 Jun 13 21:25	15° Ⅲ 32'50	
conjunction	10814 May 04 21:37	19° 8 36'25		retrograde	10820 Sep 13 23:05	18° Ⅲ 39'46	
minimum elong	10814 May 04 21:37	19° 8 36'25		opposition	10820 Nov 29 18:11	16° ∏ 41′28	
max. Earth dist.	10814 May 05 03:26	_	20.37475 AU	min. Earth dist.	10820 Nov 29 06:32		18.75915 AU
morning rise	10814 May 20 16:13	20° 8 32'36		direct	10821 Feb 14 19:35	14° ∏ 42'49	
retrograde	10814 Aug 20 07:49	23° 8 42'43		evening set	10821 May 17 17:06	17° Ⅱ 48'44	
opposition	10814 Nov 04 08:58	21° 8 43'31					
min. Earth dist.	10814 Nov 04 01:57	•	18.40619 AU	conjunction	10821 Jun 02 10:53	18° Ⅱ 43'33	
direct	10815 Jan 20 13:03	19° 8 42'54		minimum elong	10821 Jun 02 10:53	18° ∏ 43'33	
evening set	10815 Apr 23 12:56	22° 8 54'28		max. Earth dist.	10821 Jun 02 23:03		20.78432 AU
				morning rise	10821 Jun 18 04:35	19° Ⅱ 38′22	
conjunction	10815 May 09 08:17	23° 8 50'33		retrograde	10821 Sep 18 07:30	22° ∏ 44'54	
minimum elong	10815 May 09 08:17	23° 8 50'33		opposition	10821 Dec 04 05:52	20° ∏ 46'44	
max. Earth dist.	10815 May 09 15:50		20.43718 AU	min. Earth dist.	10821 Dec 03 18:45		18.80889 AU
morning rise	10815 May 25 02:28	24° 8 46'29		direct	10822 Feb 19 06:17	18° ∏ 48′23	
retrograde	10815 Aug 24 18:24	27° 8 55'58		evening set	10822 May 22 00:02	21° Ⅱ 53'31	
opposition	10815 Nov 09 00:03	25° 8 56'53				_	
min. Earth dist.	10815 Nov 08 17:00	_	18.46845 AU	conjunction	10822 Jun 06 17:37	22° Ⅱ 48'11	
direct	10816 Jan 25 02:47	23° 8 56'35		minimum elong	10822 Jun 06 17:37	22° Ⅱ 48'11	0°47'38
evening set	10816 Apr 26 23:19	27° 8 07'06		max. Earth dist.	10822 Jun 07 05:05		20.83209 AU
				morning rise	10822 Jun 22 11:33	23° ∏ 42'52	
conjunction	10816 May 12 18:11	28° 8 02'55		retrograde	10822 Sep 22 17:35	26° ∏ 49'03	
minimum elong	10816 May 12 18:11	28° 8 02'55		opposition	10822 Dec 08 17:12	24° ∏ 50′59	
max. Earth dist.	10816 May 13 02:05		20.49923 AU	min. Earth dist.	10822 Dec 08 05:08		18.85451 AU
morning rise	10816 May 28 12:15	28° 8 58'38		direct	10823 Feb 23 16:43	22° ∏ 52'54	
	10816 Jun 15 22:45	0°Π		evening set	10823 May 26 06:18	25° ∏ 57'17	
retrograde	10816 Aug 28 06:27	2° ∏ 07'31		_			
opposition	10816 Nov 12 14:15	0° Ⅱ 08'34		conjunction	10823 Jun 10 23:59	26° Ⅲ 51'48	
min. Earth dist.	10816 Nov 12 05:13		18.53013 AU	minimum elong	10823 Jun 10 23:59	26° Ⅲ 51'48	
	10816 Nov 16 02:40	30° ₹8		max. Earth dist.	10823 Jun 11 12:33		20.87533 AU
direct	10817 Jan 28 18:20	28° 8 08'36		morning rise	10823 Jun 26 17:56	27° ∏ 46′23	
	10817 Apr 07 08:44	0°II			10823 Aug 11 18:43	0°€	
evening set	10817 May 01 08:50	1° Ⅱ 18′07		retrograde	10823 Sep 27 01:07	0°952'15	
_					10823 Nov 14 02:41	30°Ŗ Ⅱ	
conjunction	10817 May 17 03:29	2° Ⅱ 13'43		opposition	10823 Dec 13 04:14	28° ∏ 54'16	
minimum elong	10817 May 17 03:28	2° Ⅱ 13'43	0~5 / 09	min. Earth dist.	10823 Dec 12 16:41	28°Щ55'25	18.89537 AU

direct	10824 Feb 28 02:37	26° Ⅱ 56'24		morning rise	10830 Jul 24 08:10	25° © 46'55	
evening set	10824 May 29 12:22	0°900'04		retrograde	10830 Oct 25 06:17	28° © 51'40	
	10824 May 29 11:57	0ංම		opposition	10831 Jan 10 20:53	26° © 53'30	-0°20'56
				min. Earth dist.	10831 Jan 10 07:51	26° © 54'48	19.05974 AU
conjunction	10824 Jun 14 05:58	0°ණ54'27 -		direct	10831 Mar 28 08:00	24° © 56'27	
minimum elong	10824 Jun 14 05:58	0°954'27		evening set	10831 Jun 26 20:46	27° © 56'40	
max. Earth dist.	10824 Jun 14 17:38		20.91385 AU				
morning rise	10824 Jun 30 00:18	1°948'56		conjunction	10831 Jul 12 16:05	28° © 50'41	
retrograde	10824 Sep 30 10:44	4° © 54'31		minimum elong	10831 Jul 12 16:05	28° © 50'41	0°17'32
opposition	10824 Dec 16 14:33	2° © 56'33 -		max. Earth dist.	10831 Jul 13 06:01		21.06424 AU
min. Earth dist.	10824 Dec 16 02:22		18.93144 AU	morning rise	10831 Jul 28 13:01	29°5544'56	
direct	10825 Mar 03 11:57	0°958'50			10831 Aug 02 01:33	0°N	
evening set	10825 Jun 02 17:52	4° © 01′50		retrograde	10831 Oct 29 13:09	2° Ω 49'44	001 (12 (
	10025 1 10 11 12	40056100	0020120	opposition	10832 Jan 15 05:06	0° Ω 51'34	
conjunction	10825 Jun 18 11:43	4°956'08 -		min. Earth dist.	10832 Jan 14 16:19		19.06799 AU
minimum elong max. Earth dist.	10825 Jun 18 11:43 10825 Jun 19 00:24		0°39'05 20.94743 AU	direct	10832 Feb 06 11:49	30° ₹ॐ 28° ॐ 54'37	
		5°950'32	20.94743 AU	direct	10832 Mar 31 14:12	28 \$3437 0°Ω	
morning rise retrograde	10825 Jul 04 06:12 10825 Oct 04 17:00	3 \$30 32 8°\$55'50		evening set	10832 May 22 08:20 10832 Jun 30 01:04	1° Ω 54'36	
opposition	10825 Dec 21 00:34	6°957'52 -	0°40'50	evening set	10632 Juli 30 01.04	1 663430	
min. Earth dist.	10825 Dec 20 12:55		18.96259 AU	conjunction	10832 Jul 15 20:39	2°Ω48'37	-0°13'02
direct	10826 Mar 07 20:49	5°900'18	16.70237 AO	minimum elong	10832 Jul 15 20:39	2° Ω 48'37	
evening set	10826 Jun 06 23:00	8°902'40		behind sun begin	10832 Jul 15 16:57	2°Ω48'07	0 13 33
evening set	10020 Juli 00 25.00	0 302 40		behind sun end	10832 Jul 16 00:21	2°Ω49'08	
conjunction	10826 Jun 22 16:50	8°956'52 -	.0°35'16	max. Earth dist.	10832 Jul 16 09:29		21.07055 AU
minimum elong	10826 Jun 22 16:50	8°956'52		morning rise	10832 Jul 31 18:17	3°Ω42'55	21.07033710
max. Earth dist.	10826 Jun 23 04:45		20.97641 AU	retrograde	10832 Nov 01 21:39	6° Ω 47'50	
morning rise	10826 Jul 08 11:45	9° © 51'12	20.57011110	opposition	10833 Jan 18 12:59	4°Ω49'38	-0°12'11
retrograde	10826 Oct 09 01:49	12° © 56'17		min. Earth dist.	10833 Jan 18 00:11		19.07220 AU
opposition	10826 Dec 25 10:06	10°958'17 -	0°37'10	direct	10833 Apr 04 19:49	2° Ω 52'45	
min. Earth dist.	10826 Dec 24 21:47	10° © 59'30 1		evening set	10833 Jul 04 05:22	5°Ω52'36	
direct	10827 Mar 12 04:58	9° 5 00'49		8			
evening set	10827 Jun 11 03:44	12° © 02'37		conjunction	10833 Jul 20 01:31	6° Ω 46'40	-0°09'02
C				minimum elong	10833 Jul 20 01:31	6° Ω 46'40	0°09'33
conjunction	10827 Jun 26 21:53	12° © 56'44 -	0°31'52	behind sun begin	10833 Jul 19 20:02	6° Ω 45'54	
minimum elong	10827 Jun 26 21:53	12° © 56'44	0°32'27	behind sun end	10833 Jul 20 07:00	6° Ω 47'26	
max. Earth dist.	10827 Jun 27 11:04	12° © 58'38 2	21.00123 AU	max. Earth dist.	10833 Jul 20 15:09	6° Ω 48'36	21.07248 AU
morning rise	10827 Jul 12 17:01	13° © 51'01		morning rise	10833 Aug 04 23:32	7° Ω 41'01	
retrograde	10827 Oct 13 07:45	16° © 55'56		retrograde	10833 Nov 06 04:56	10° Ω 46′04	
opposition	10827 Dec 29 19:18	14°957'53 -	0°33'19	opposition	10834 Jan 22 20:59	8° Ω 47'51	-0°07'43
min. Earth dist.	10827 Dec 29 07:13	14°959'05	19.01239 AU	min. Earth dist.	10834 Jan 22 08:39	8° Ω 49'05	19.07176 AU
direct	10828 Mar 15 12:44	13° © 00'31		direct	10834 Apr 09 01:11	6° Ω 51′03	
evening set	10828 Jun 14 08:13	16° © 01'49		evening set	10834 Jul 08 09:52	9° Ω 50'49	
conjunction	10828 Jun 30 02:29	16°955'53 -	0°28'19	conjunction	10834 Jul 24 06:19	10° Ω 44'55	
minimum elong	10828 Jun 30 02:29	16°©55'53	0°28'54	minimum elong	10834 Jul 24 06:19	10° Ω 44'55	0°05'28
max. Earth dist.	10828 Jun 30 14:58	16°957'40 2	21.02240 AU	behind sun begin	10834 Jul 23 23:58	10° Ω 44'02	
morning rise	10828 Jul 15 22:11	17° © 50'08		behind sun end	10834 Jul 24 12:40	10° Ω 45'48	
retrograde	10828 Oct 16 15:54	20° © 54'56		max. Earth dist.	10834 Jul 24 18:37		21.06971 AU
opposition	10829 Jan 02 04:05	18°956'50 -		morning rise	10834 Aug 09 05:03	11° Ω 39'20	
min. Earth dist.	10829 Jan 01 15:20	18°958'06 1	19.03180 AU	retrograde	10834 Nov 10 13:57	14° Ω 44'37	0000110
direct	10829 Mar 19 19:19	16°959'34		opposition	10835 Jan 27 05:01	12° Ω 46'20	
evening set	10829 Jun 18 12:30	20° © 00'26		min. Earth dist.	10835 Jan 26 16:58		19.06652 AU
	10020 1 1 04 07 00	200554120	002420	direct	10835 Apr 13 07:12	10° Ω 49'34	
conjunction	10829 Jul 04 07:09	20°954'28 -		evening set	10835 Jul 12 14:37	13° Ω 49'19	
minimum elong max. Earth dist.	10829 Jul 04 07:09 10829 Jul 04 20:50	20°©54'28 20°©56'26 2		conjunction	10835 Jul 28 11:41	14° Ω 43'30	0000152
	10829 Jul 04 20:30 10829 Jul 20 03:06	20 \$30 20 2 21° \$548' 42	21.03993 AU	v	10835 Jul 28 11:41 10835 Jul 28 11:41	14° Ω 43'30	
morning rise retrograde	10829 Jul 20 03:06 10829 Oct 20 22:15	21°948'42 24°953'26		minimum elong behind sun begin	10835 Jul 28 11:41 10835 Jul 28 05:06	14° Ω 42'35	0 01 20
opposition	10829 Oct 20 22:13 10830 Jan 06 12:32	24 955 26 22°955'19 -	.0°25'11	behind sun eegin	10835 Jul 28 03:06 10835 Jul 28 18:17	14 δ (42 33 14° Ω 44'25	
min. Earth dist.	10830 Jan 06 12.32 10830 Jan 05 23:59	22°956'34 1		max. Earth dist.	10835 Jul 28 18.17 10835 Jul 29 00:33		21.06179 AU
direct	10830 Mar 24 02:19	22 \$30 34 1 20° \$58' 10	17.07/32 AU	max. Darui dist.	10835 Jul 29 00:53 10835 Aug 02 06:50	14 δί 43 19	21.001/7 AU
evening set	10830 Jun 22 16:47	20 \$38 10 23°\$58'40		morning rise	10835 Aug 02 00:50 10835 Aug 13 10:52	15° Ω 38'00	
J. J	-0050 Jun 22 10.47			asc. node	10835 Aug 13 10:32 10835 Oct 13 10:22	18° Ω 17'55	
conjunction	10830 Jul 08 11:36	24°952'41 -	0°20'52	retrograde	10835 Nov 14 21:58	18° Ω 43'31	
minimum elong	10830 Jul 08 11:36		0°21'25	opposition	10836 Jan 31 12:59	16° Ω 45'09	0°01'21
max. Earth dist.	10830 Jul 09 00:25	24°954'30 2		min. Earth dist.	10836 Jan 31 01:37		19.05586 AU
						. 55.010	

	10836 Mar 25 21:53	15°R Ω		minimum elong	10841 Aug 21 02:08	8° Mp 44'01	0°23'07
direct	10836 Apr 16 12:45	14° Ω 48'24		max. Earth dist.	10841 Aug 21 11:03		20.90295 AU
	10836 May 07 21:48	15° Ω		morning rise	10841 Sep 06 05:16	9° m 39'20	
evening set	10836 Jul 15 19:46	17° Ω 48'11		retrograde	10841 Dec 09 04:35	12° m 47'04	
				opposition	10842 Feb 24 13:50	10° m 47'33	
conjunction	10836 Jul 31 17:13	18° Ω 42'27	0°03'21	min. Earth dist.	10842 Feb 24 06:06	10° Mp 48'20	18.88287 AU
minimum elong	10836 Jul 31 17:14	18° Ω 42'27	0°02'56	direct	10842 May 11 02:29	8° m 49'59	
behind sun begin	10836 Jul 31 10:39	18° Ω 41'32		evening set	10842 Aug 09 08:40	11° m 51'12	
behind sun end	10836 Jul 31 23:48	18° Ω 43'22					
max. Earth dist.	10836 Aug 01 04:20	18° Ω 44'01	21.04839 AU	conjunction	10842 Aug 25 09:45	12° Mp 46'18	0°27'08
morning rise	10836 Aug 16 17:12	19° Ω 37′03		minimum elong	10842 Aug 25 09:44	12°Mp46'18	0°26'54
retrograde	10836 Nov 18 07:06	22° Ω 42'52		max. Earth dist.	10842 Aug 25 17:04	12° m)47'21	20.86207 AU
opposition	10837 Feb 03 21:02	20° Ω 44′22	0°05'53	morning rise	10842 Sep 10 13:44	13° m 41'48	
min. Earth dist.	10837 Feb 03 10:21	20° Ω 45'27	19.03960 AU	retrograde	10842 Dec 13 15:26	16° m 50'05	
direct	10837 Apr 20 18:41	18° Ω 47'33		opposition	10843 Feb 28 22:29	14° m 50'21	0°32'03
evening set	10837 Jul 20 01:04	21° Ω 47'26		min. Earth dist.	10843 Feb 28 15:30	14° m 51'04	18.84061 AU
				direct	10843 May 15 08:28	12° m 52'35	
conjunction	10837 Aug 04 23:13	22° Ω 41'48	0°07'27	evening set	10843 Aug 13 16:17	15° m 54'18	
minimum elong	10837 Aug 04 23:13	22° Ω 41'48	0°07'03		•	-	
behind sun begin	10837 Aug 04 17:06	22° Ω 40'57		conjunction	10843 Aug 29 18:13	16° m 49'36	0°30'47
behind sun end	10837 Aug 05 05:19	22° Ω 42'39		minimum elong	10843 Aug 29 18:13	16° m 49'36	0°30'36
max. Earth dist.	10837 Aug 05 10:35	22°Ω43'25	21.02916 AU	max. Earth dist.	10843 Aug 30 02:06	16° m 50'44	20.81837 AU
morning rise	10837 Aug 20 23:38	23°Ω36'31		morning rise	10843 Sep 14 22:44	17° m) 45'18	
retrograde	10837 Nov 22 15:31	26° Ω 42'38		retrograde	10843 Dec 18 01:48	20° m 54'08	
opposition	10838 Feb 08 05:04	24°Ω44'00	0°10'25	opposition	10844 Mar 04 07:11	18° m) 54'13	0°36'01
min. Earth dist.	10838 Feb 07 19:04	• • • • •	19.01747 AU	min. Earth dist.	10844 Mar 04 00:22		18.79556 AU
direct	10838 Apr 25 01:13	22° Ω 47'05	19.01717110	direct	10844 May 18 15:43	16° mp 56'17	10.77550110
evening set	10838 Jul 24 06:46	25°Ω47'06		evening set	10844 Aug 17 00:42	19° Mp 58'34	
evening set	10030 Jul 24 00.40	23 6647 00		evening set	10044 Aug 17 00.42	17 III 30 34	
conjunction	10838 Aug 09 05:21	26° Ω 41'34	0°11'30	conjunction	10844 Sep 02 03:11	20° m 54'04	0°34'18
minimum elong	10838 Aug 09 05:21	26°Ω41'34	0°11'08	minimum elong	10844 Sep 02 03:10	20° m 54'04	0°34'09
behind sun begin	10838 Aug 09 00:25	26° Ω 40'53		max. Earth dist.	10844 Sep 02 09:16		20.77212 AU
behind sun end	10838 Aug 09 10:17	26° Ω 42'16		morning rise	10844 Sep 18 08:34	21° m/49'59	
max. Earth dist.	10838 Aug 09 14:57		21.00445 AU	retrograde	10844 Dec 21 14:00	24° m) 59'27	
morning rise	10838 Aug 25 06:36	27° Ω 36'25	21.00113110	opposition	10845 Mar 08 16:22	22° m 59'21	0°39'50
	10838 Oct 15 17:42	0° m)		min. Earth dist.	10845 Mar 08 10:31		18.74811 AU
retrograde	10838 Nov 27 00:40	0° Mp 42'54		direct	10845 May 22 22:33	21° mp 01'14	10.7.1011110
retrograde	10839 Jan 09 09:19	30°RΩ		evening set	10845 Aug 21 09:32	24° Mp 04'09	
opposition	10839 Feb 12 13:14	28°Ω44'02	0°14'54	evening set	100+3 Mug 21 07.52	24 m/0407	
min. Earth dist.	10839 Feb 12 03:59		18.99021 AU	conjunction	10845 Sep 06 12:51	24° m 59'52	0°37'39
direct	10839 Apr 29 06:44	26° Ω 46'58	10.77021710	minimum elong	10845 Sep 06 12:51	24° m 59'52	
evening set	10839 Jul 28 12:32	29° Ω 47'11		max. Earth dist.	10845 Sep 06 12:31		20.72339 AU
evening set	10839 Aug 01 07:32	0°m)		morning rise	10845 Sep 22 18:44	25° m 56'00	20.72337 AO
	1003) Aug 01 07.32	עוו ט		retrograde	10845 Dec 26 01:17	29° Mp 06'07	
conjunction	10839 Aug 13 11:53	0° Mp 41'48	0°15'31	opposition	10846 Mar 13 01:52	27° m 05'52	0°43'28
minimum elong	10839 Aug 13 11:53	0°Mp41'48		min. Earth dist.	10846 Mar 12 20:09		18.69815 AU
behind sun begin	10839 Aug 13 11:33 10839 Aug 13 09:40	0° Mp 41'29	0 13 12	direct	10846 May 27 06:28	25° m 07'36	16.09613 AU
behind sun end	10839 Aug 13 14:06	0° Mp 42'06		evening set	10846 Aug 25 19:21	28° mg 11'12	
max. Earth dist.	10839 Aug 13 14:00 10839 Aug 13 21:57		20.97473 AU	evening set	10040 Aug 23 19.21	20 11/11112	
morning rise	10839 Aug 29 13:40	1°M)36'47	20.77473 AO	conjunction	10846 Sep 10 23:12	29° m 07'09	0°40'49
retrograde	10839 Aug 29 13.40 10839 Dec 01 09:31	4° Mp 43'38		minimum elong	10846 Sep 10 23:12 10846 Sep 10 23:12	29° my 07'09	
opposition	10840 Feb 16 21:22	2° Mp 44'33	0°19'20	max. Earth dist.	10846 Sep 10 23.12 10846 Sep 11 03:59		20.67233 AU
min. Earth dist.	10840 Feb 16 21:22 10840 Feb 16 12:37		18.95817 AU	max. Earth dist.	10846 Sep 26 05:07	0° ⊽	20.07233 AU
		-	16.93617 AU	mamina risa	10846 Sep 27 05:58	0° ჲ 03'32	
direct	10840 May 02 13:53	0° Mp 47'20		morning rise			
evening set	10840 Jul 31 18:55	3° Mp 47'49		retrograde	10846 Dec 30 14:23	3° Ω 14'21	0946152
conjunction	10940 Ana 16 10.44	10 mm 1212 1	0°10'20	opposition	10847 Mar 17 11:53	1° Ω 13'55	
conjunction	10840 Aug 16 18:44	4° Mp 42'34		min. Earth dist.	10847 Mar 17 07:26		18.64592 AU
minimum elong	10840 Aug 16 18:44	4° Mp 42'34		direc-4	10847 Apr 18 18:36	30°RM)	
max. Earth dist.	10840 Aug 17 03:06		20.94070 AU	direct	10847 May 31 14:26	29° Mp 15'28	
morning rise	10840 Sep 01 21:22	5° Mp 37'42			10847 Jul 12 08:58	0∘ ⊽	
retrograde	10840 Dec 04 19:05	8° Mp 44'59	0022111	evening set	10847 Aug 30 05:48	2° ≏ 19'49	
opposition	10841 Feb 20 05:28	6° m 45'41			10045 0 15 15	20 2 1	00.42***
min. Earth dist.	10841 Feb 19 21:30		18.92228 AU	conjunction	10847 Sep 15 10:34	3° Ω 16'03	
direct	10841 May 06 19:13	4° Mp 48'16		minimum elong	10847 Sep 15 10:33	3° Ω 16'03	
evening set	10841 Aug 05 01:32	7° Mp 49'06		max. Earth dist.	10847 Sep 15 15:36		20.61877 AU
	10041	00=-	000000	morning rise	10847 Oct 01 17:51	4° £ 12'39	
conjunction	10841 Aug 21 02:09	8° Mp 44'01	0°23'22	retrograde	10848 Jan 04 03:15	7° ≏ 24'11	

opposition	10848 Mar 20 22:16	5° £ 23'37	0°50'05	conjunction	10854 Oct 15 17:18	3°M04'39	0°57'46
min. Earth dist.	10848 Mar 20 18:10		18.59095 AU	minimum elong	10854 Oct 15 17:18	3°M04'39	0°58'02
direct	10848 Jun 03 23:37	3° £ 24'58		max. Earth dist.	10854 Oct 15 13:25		20.17159 AU
evening set	10848 Sep 02 17:23	6° ₽ 30'09		morning rise	10854 Nov 01 05:03	4°M03'09	
Č	1			retrograde	10855 Feb 03 13:23	7°M19'43	
conjunction	10848 Sep 18 22:40	7° ჲ 26'37	0°46'34	opposition	10855 Apr 20 13:26	5°M17'30	1°04'39
minimum elong	10848 Sep 18 22:39	7° Ω 26'36	0°46'37	min. Earth dist.	10855 Apr 20 17:05	5°M17'07	18.13747 AU
max. Earth dist.	10848 Sep 19 01:29	7° ≏ 27'01	20.56239 AU	direct	10855 Jul 04 07:54	3°M16'31	
morning rise	10848 Oct 05 06:45	8° ჲ 23'29		evening set	10855 Oct 04 00:59	6°M28'14	
retrograde	10849 Jan 07 16:37	11° ≏ 35'45					
opposition	10849 Mar 25 09:10	9° Ω 35'00	0°53'03	conjunction	10855 Oct 20 11:25	7°M26'42	0°58'34
min. Earth dist.	10849 Mar 25 06:49	9° Ω 35'15	18.53316 AU	minimum elong	10855 Oct 20 11:24	7°M26'42	0°58'53
direct	10849 Jun 08 08:49	7° ≙ 36'07		max. Earth dist.	10855 Oct 20 07:29	7°M26'06	20.10329 AU
evening set	10849 Sep 07 05:39	10° ≙ 42'09		morning rise	10855 Nov 05 23:36	8°M25'28	
				retrograde	10856 Feb 08 08:13	11°M42'45	
conjunction	10849 Sep 23 11:49	11° ≏ 38'54	0°49'07	opposition	10856 Apr 24 03:54	9° M 40'18	1°05'23
minimum elong	10849 Sep 23 11:49	11° ≏ 38'54	0°49'11	min. Earth dist.	10856 Apr 24 07:17	9° M 39'57	18.06951 AU
max. Earth dist.	10849 Sep 23 14:33	11° ≏ 39'18	20.50302 AU	direct	10856 Jul 07 22:50	7°M38'57	
morning rise	10849 Oct 09 20:23	12° ≏ 36′01		evening set	10856 Oct 07 19:18	10°M51'43	
retrograde	10850 Jan 12 07:09	15° ≏ 49'01					
opposition	10850 Mar 29 20:38	13° ≏ 48′05	0°55'45	conjunction	10856 Oct 24 06:12	11°M50'29	0°59'01
min. Earth dist.	10850 Mar 29 18:38	13° ≏ 48'17	18.47224 AU	minimum elong	10856 Oct 24 06:12	11°M50'29	0°59'23
direct	10850 Jun 12 19:41	11° ≏ 48'56		max. Earth dist.	10856 Oct 24 00:42	11° M 49'39	20.03579 AU
evening set	10850 Sep 11 18:48	14° ≙ 55'49		morning rise	10856 Nov 09 18:55	12°M49'32	
					10856 Dec 22 03:32	15°M	
conjunction	10850 Sep 28 01:33	15° ≏ 52'50	0°51'24	retrograde	10857 Feb 12 01:54	16°M07'31	
minimum elong	10850 Sep 28 01:32	15° ≏ 52'50	0°51'31		10857 Apr 06 10:39	15°RM	
max. Earth dist.	10850 Sep 28 01:55	15° ≏ 52'53	20.44063 AU	opposition	10857 Apr 28 19:08	14°M04'53	1°05'44
morning rise	10850 Oct 14 10:56	16° ≙ 50'14		min. Earth dist.	10857 Apr 29 00:07	14°M04'21	18.00279 AU
retrograde	10851 Jan 16 21:05	20° ≏ 03'58		direct	10857 Jul 12 12:28	12°M03'10	
opposition	10851 Apr 03 08:44	18° ≏ 02'47	0°58'10		10857 Oct 07 17:16	15°M	
min. Earth dist.	10851 Apr 03 08:36	18° ≏ 02'48	18.40848 AU	evening set	10857 Oct 12 14:21	15°M17'01	
direct	10851 Jun 17 06:00	16° ჲ 03'18					
evening set	10851 Sep 16 08:46	19° ≙ 11'06		conjunction	10857 Oct 29 01:59	16°M16'05	0°59'08
				minimum elong	10857 Oct 29 01:59	16°M16'05	0°59'32
conjunction	10851 Oct 02 16:25	20° ≏ 08'24	0°53'26	max. Earth dist.	10857 Oct 28 20:23	16°M15'15	19.96996 AU
minimum elong	10851 Oct 02 16:25	20° ≏ 08'24	0°53'35	morning rise	10857 Nov 14 15:05	17°M15'25	
max. Earth dist.	10851 Oct 02 16:37	20° ჲ 08′26	20.37560 AU	retrograde	10858 Feb 16 22:24	20°M34'07	
morning rise	10851 Oct 19 02:18	21° ≏ 06′04		opposition	10858 May 03 10:51	18°M31'18	1°05'41
retrograde	10852 Jan 21 12:55	24° ≏ 20′30		min. Earth dist.	10858 May 03 15:22	18°M30'49	17.93791 AU
opposition	10852 Apr 06 21:00	22° ≏ 19'04	1°00'18	direct	10858 Jul 17 04:57	16°M29'16	
min. Earth dist.	10852 Apr 06 21:10	22° ≏ 19'03	18.34229 AU	evening set	10858 Oct 17 10:23	19° M 44'14	
direct	10852 Jun 20 18:32	20° ≏ 19'14					
evening set	10852 Sep 19 23:43	23° ≏ 27'58		conjunction	10858 Nov 02 22:33	20°M43'36	0°58'54
				minimum elong	10858 Nov 02 22:33	20°M43'35	0°59'20
conjunction	10852 Oct 06 07:55	24° ≏ 25'33	0°55'11	max. Earth dist.	10858 Nov 02 15:47	20°M42'34	19.90607 AU
minimum elong	10852 Oct 06 07:54	24° ≏ 25'33	0°55'22	morning rise	10858 Nov 19 12:07	21°M43'12	
max. Earth dist.	10852 Oct 06 05:53		20.30851 AU	retrograde	10859 Feb 21 17:24	25°M02'36	
morning rise	10852 Oct 22 18:32	25° ≏ 23'29		opposition	10859 May 08 03:26	22°M59'40	1°05'14
retrograde	10853 Jan 25 03:45	28° ≏ 38'38		min. Earth dist.	10859 May 08 09:32	22°M59'01	17.87518 AU
opposition	10853 Apr 11 10:01	26° ≏ 36'57	1°02'06	direct	10859 Jul 21 19:42	20°M57'20	
min. Earth dist.	10853 Apr 11 12:01	26° ≏ 36'44	18.27456 AU	evening set	10859 Oct 22 07:27	24°M13'26	
direct	10853 Jun 25 05:45	24° ≏ 36'44					
evening set	10853 Sep 24 15:08	27° ≏ 46'25		conjunction	10859 Nov 07 20:14	25°M13'06	0°58'17
				minimum elong	10859 Nov 07 20:13	25°M13'06	0°58'44
conjunction	10853 Oct 11 00:11	28° ≏ 44'17		max. Earth dist.	10859 Nov 07 13:00		19.84457 AU
minimum elong	10853 Oct 11 00:11	28° ≏ 44'17	0°56'53	morning rise	10859 Nov 24 10:08	26°M12'58	
max. Earth dist.	10853 Oct 10 22:11		20.24028 AU	retrograde	10860 Feb 26 15:44	29°M33'03	
morning rise	10853 Oct 27 11:15	29° Ω 42'30		opposition	10860 May 11 20:24	27°M30'02	
	10853 Nov 01 13:15	0° M		min. Earth dist.	10860 May 12 02:12		17.81481 AU
retrograde	10854 Jan 29 21:04	2°M58'21		direct	10860 Jul 25 13:52	25°M27'26	
opposition	10854 Apr 15 23:26	0° ™ 56′24	1°03'33	evening set	10860 Oct 26 05:31	28°M44'41	
min. Earth dist.	10854 Apr 16 01:20		18.20599 AU				
	10854 May 09 03:23	30° ₽. Ω		conjunction	10860 Nov 11 18:45	29°M44'39	0°57'20
direct	10854 Jun 29 19:29	28° Ω 55'49		minimum elong	10860 Nov 11 18:44	29°M44'39	0°57'49
	10854 Aug 18 20:34	0° M		max. Earth dist.	10860 Nov 11 10:39		19.78531 AU
evening set	10854 Sep 29 07:43	2°M06'29			10860 Nov 15 23:39	0° ∡ 7	

morning rise	10860 Nov 28 08:55	0° ∡ ¹44'47		min. Earth dist.	10867 Jun 14 02:21	29° ₹ 52'28	17.45706 AU
retrograde	10861 Mar 02 12:08	4° ∡ ¹05'31		direct	10867 Aug 27 14:11	27° ∡ °49′07	
opposition	10861 May 16 14:22	2° ∡ ¹02'28	1°03'08		10867 Nov 08 08:58	ರ∘ರ	
min. Earth dist.	10861 May 16 21:49		17.75673 AU	evening set	10867 Nov 29 14:27	1° る 13'26	
	10861 Jul 26 12:00	30°RM.					
direct	10861 Jul 30 06:00	29°M59'37		conjunction	10867 Dec 16 05:38	2°る14'58	
arranina aat	10861 Aug 03 00:43 10861 Oct 31 04:21	0° ҂ ¹ 3° ҂ ¹18'00		minimum elong max. Earth dist.	10867 Dec 16 05:38 10867 Dec 15 15:31	2°る14'58	0°41'18 19.43732 AU
evening set	10801 Oct 31 04.21	3 ×.1900		morning rise	10867 Dec 13 13.31 10868 Jan 01 20:21	2 31247 3° 3 16'28	19.43/32 AU
conjunction	10861 Nov 16 18:02	4° ∡ 18'14	0°56'00	retrograde	10868 Apr 04 06:17	6° ප 40'20	
minimum elong	10861 Nov 16 18:02	4° × 718'14	0°56'31	opposition	10868 Jun 17 12:57	4° る 36'48	0°43'26
max. Earth dist.	10861 Nov 16 09:01	4° ∡ 16'51		min. Earth dist.	10868 Jun 18 00:25		17.41906 AU
morning rise	10861 Dec 03 08:31	5° ∡ 18'37		direct	10868 Aug 31 14:27	2° る 31'55	
retrograde	10862 Mar 07 11:43	8° ₰ ¹40'01		evening set	10868 Dec 03 17:55	5° る 57'00	
opposition	10862 May 21 08:54	6° ∡ ¹36'53	1°01'29				
min. Earth dist.	10862 May 21 16:16		17.70082 AU	conjunction	10868 Dec 20 09:18	6° る 58'42	0°37'03
direct	10862 Aug 04 02:09	4° ∡ °33'46		minimum elong	10868 Dec 20 09:18	6°る58'42	
evening set	10862 Nov 05 04:17	7° ∡ ¹53'17		max. Earth dist.	10868 Dec 19 20:07		19.40169 AU
conjunction	10862 Nov 21 18:25	8° ∡ ¹53'47	0°54'19	morning rise retrograde	10869 Jan 05 23:37 10869 Apr 09 07:11	8°る00'17 11°る24'21	
minimum elong	10862 Nov 21 18:26	8° х 53'47	0°54'51	opposition	10869 Jun 22 11:21	9°る20'46	0°30'13
max. Earth dist.	10862 Nov 21 08:43	8° × ³³ 47	19.67337 AU	min. Earth dist.	10869 Jun 22 22:54		17.38597 AU
morning rise	10862 Dec 08 09:00	9° × 754'24	17.07557110	direct	10869 Sep 05 14:26	7° る 15'38	17.500577110
retrograde	10863 Mar 12 09:04	13° ∡ 16'21		evening set	10869 Dec 08 21:46	10° ප් 41'24	
opposition	10863 May 26 04:10	11° ∡ 13'11	0°59'26				
min. Earth dist.	10863 May 26 13:12	11° ∡ "12′12	17.64683 AU	conjunction	10869 Dec 25 12:56	11° る 43'13	0°33'07
direct	10863 Aug 08 20:18	9° ∡ ¹09'48		minimum elong	10869 Dec 25 12:56	11° る 43'13	0°33'42
evening set	10863 Nov 10 05:06	12° ∡ ³30′23		max. Earth dist.	10869 Dec 24 22:36		19.37138 AU
				morning rise	10870 Jan 11 03:10	12° る 44'54	
conjunction	10863 Nov 26 19:33	13° 🗷 31'08	0°52'16	retrograde	10870 Apr 14 07:32	16°る09'05	0024142
minimum elong max. Earth dist.	10863 Nov 26 19:33 10863 Nov 26 08:18	13° ∡ ′31'08 13° ∡ ′29'24	0°52'50 19.62047 AU	opposition min. Earth dist.	10870 Jun 27 10:10 10870 Jun 27 21:55	14° る 05'28	0°34'43 17.35856 AU
morning rise	10863 Nov 26 08.18 10863 Dec 13 10:22	13 x ·2924 14° x ⁷ 31'58	19.02047 AU	direct	10870 Sep 10 14:34	14 30411 12° 3 00'06	17.33830 AU
retrograde	10864 Mar 16 09:08	17° 🖈 54'26		evening set	10870 Dec 14 01:55	15°る26'30	
opposition	10864 May 30 00:02	15° × 751'11	0°56'59	evening set	10070 Dec 11 01.33	15 02050	
min. Earth dist.	10864 May 30 09:10		17.59502 AU	conjunction	10870 Dec 30 17:07	16° පි 28'24	0°28'57
direct	10864 Aug 12 18:51	13° ∡ ¹47'31		minimum elong	10870 Dec 30 17:07	16° පි 28'24	0°29'33
evening set	10864 Nov 14 06:27	17° ∡ °09′07		max. Earth dist.	10870 Dec 30 03:57	16° る 26'21	19.34689 AU
				morning rise	10871 Jan 16 06:51	17° る 30'08	
conjunction	10864 Nov 30 21:16	18° ⋌ 10'06	0°49'53	retrograde	10871 Apr 19 09:34	20° る 54'23	
minimum elong	10864 Nov 30 21:16	18° ₹ 10'06	0°50'26	opposition	10871 Jul 02 09:13	18°る50'48	
max. Earth dist.	10864 Nov 30 09:52	18° × ′08'21 19° × ′11'07	19.56976 AU	min. Earth dist. direct	10871 Jul 02 20:28		17.33707 AU
morning rise retrograde	10864 Dec 17 11:59 10865 Mar 21 06:50	19° x ′11′07 22° x ′34′03		evening set	10871 Sep 15 15:36 10871 Dec 19 06:29	16°る45'16 20°る12'13	
opposition	10865 Jun 03 20:36	20° × 30'44	0°54'08	evening set	100/1 Dec 1/ 00.2/	20 01213	
min. Earth dist.	10865 Jun 04 06:59		17.54564 AU	conjunction	10872 Jan 04 21:17	21° る 14'11	0°24'35
direct	10865 Aug 17 15:24	18° ∡ ¹26'45		minimum elong	10872 Jan 04 21:17	21° ප 14'11	0°25'10
evening set	10865 Nov 19 08:35	21° ₹ ¹49'19		max. Earth dist.	10872 Jan 04 07:20	21° る 12'00	19.32860 AU
				morning rise	10872 Jan 21 10:41	22° る 15'56	
conjunction	10865 Dec 05 23:31	22° ₹ ′50′30	0°47'08	retrograde	10872 Apr 23 09:34	25° る 40'12	
minimum elong	10865 Dec 05 23:31	22° × 750'31	0°47'44	opposition	10872 Jul 06 08:49	23° る 36'40	
max. Earth dist.	10865 Dec 05 10:32		19.52199 AU	min. Earth dist.	10872 Jul 06 20:21		17.32207 AU
morning rise	10865 Dec 22 14:25	23° 🗷 51'43		direct	10872 Sep 19 16:10	21° る 31'01	
retrograde opposition	10866 Mar 26 07:00 10866 Jun 08 17:31	27° ₹ 15'02 25° ₹ 11'37	0°50'55	evening set	10872 Dec 23 10:50	24° る 58'28	
min. Earth dist.	10866 Jun 09 04:03		17.49954 AU	conjunction	10873 Jan 09 01:29	26° ප 00'27	0°20'03
direct	10866 Aug 22 15:24	23° ₹ 107'20	17.1330.110	minimum elong	10873 Jan 09 01:29	26° る 00'27	0°20'37
evening set	10866 Nov 24 11:11	26° ⋌ ¹30'48		max. Earth dist.	10873 Jan 08 12:44		19.31683 AU
-				morning rise	10873 Jan 25 14:18	27° ට 02'13	
conjunction	10866 Dec 11 02:27	27° ∡ ³32′12	0°44'05		10873 Mar 28 11:10	0° ≈	
minimum elong	10866 Dec 11 02:28	27° ∡ ³32′12	0°44'40	retrograde	10873 Apr 28 11:39	0° ≈ 26′27	
max. Earth dist.	10866 Dec 10 13:52		19.47763 AU		10873 May 29 20:37	30°Ŗ₹	
morning rise	10866 Dec 27 17:09	28° × ¹ 33'33		opposition	10873 Jul 11 08:37	28° る 23'02	
	10867 Jan 22 01:26	0°る		min. Earth dist.	10873 Jul 11 19:11		17.31334 AU
retrograde	10867 Mar 31 06:05	1°る57'10		direct	10873 Sep 24 18:20	26°る17'21	
opposition	10867 Jun 11 05:17 10867 Jun 13 15:04	30°₹ ҂ 29° ҂ 753'42	0°47'21	evening set	10873 Dec 28 15:37 10874 Jan 01 15:58	29°る45'10 0°≈	
оррознин	1000/ Juli 13 13.04	<i>∠,</i> ⊼ <i>,</i> 3342	0 7/21		1007 Jan 01 13.38	· ~	

page 23

Tranetary Trient	omena or cranas n	0111 10000 ti	mough 11102	(O1), / istrodicits	1710 10 100 2025	14.23, I	age 24
direct	10885 Nov 21 22:38	23° ¥ 09'07		minimum elong	10892 Apr 08 23:27	24° Ƴ 45'52	0°55'26
evening set	10886 Feb 24 23:29	26°) 33′55		max. Earth dist.	10892 Apr 09 00:24		19.98571 AU
evening set	10000100 24 25.27	20 7(3333		morning rise	10892 Apr 24 21:00	25°43'39	17.70371710
conjunction	10886 Mar 13 04:41	27° ₩ 33'52	_0°30'10	retrograde	10892 Jul 25 08:59	28°Y58'06	
minimum elong	10886 Mar 13 04:40	27°) 33′52		opposition	10892 Oct 08 13:55	26° Υ 58'02	-1°02'15
max. Earth dist.	10886 Mar 12 23:55		19.61751 AU	min. Earth dist.	10892 Oct 08 12:08		18.01836 AU
morning rise	10886 Mar 29 06:58	28°\(\frac{1}{33}\)33'24	19.01/31 AO	direct	10892 Oct 08 12:08 10892 Dec 24 14:43	24° Y 55'39	18.01830 AC
morning risc	10886 Apr 23 17:01	26 γ (33 24		evening set	10892 Dec 24 14:43 10893 Mar 28 16:35	28° Y 13'50	
retrograde	10886 Jun 28 22:21	1° Υ ′52'06		evening set	10093 Wiai 26 10.33	20 1 13 30	
retrograde	10886 Sep 07 16:50	1		conjunction	10893 Apr 13 15:34	29° Ƴ 11'37	0°56'44
opposition	10886 Sep 11 08:30	29° ¥ 50'40	0°45'40	minimum elong	10893 Apr 13 15:34 10893 Apr 13 15:34	29 Υ 11 37 29° Υ 11'37	
min. Earth dist.	10886 Sep 11 12:22		-0 43 40 17.64458 AU	max. Earth dist.	10893 Apr 13 17:07		20.05080 AU
direct	10886 Nov 26 22:56	27°) 46'17	17.04438 AU	max. Earm dist.	10893 Apr 13 17:07 10893 Apr 26 23:16	0° 8	20.03080 AC
direct	10887 Feb 09 13:28	2°γ		morning rise	10893 Apr 29 12:30	0° 8 09'08	
evening set	10887 Mar 01 21:47	1° Υ 10'17		retrograde	10893 Jul 29 23:31	3° 8 22'49	
evening set	1000/ Widi 01 21.4/	1 11017		opposition	10893 Jul 29 23:31 10893 Oct 13 08:49	1° 6 22'56	1003/43
conjunction	10887 Mar 18 01:52	2° Y ′09'56	0042144	min. Earth dist.	10893 Oct 13 08:49 10893 Oct 13 07:13	.T.	18.08343 AU
	10887 Mar 18 01:51	2°Υ09'56		iiiii. Eattii tiist.	10893 Oct 13 07:13 10893 Nov 18 23:34	1 O23 00 30°RΥ	16.06343 AU
minimum elong	10887 Mar 17 21:20		19.67263 AU	J: 4	10893 Nov 18 23.34 10893 Dec 29 09:33	30 K I 29° Υ 20'50	
max. Earth dist.		2° γ 09°14 3° γ 09'12	19.07203 AU	direct		0° 8	
morning rise	10887 Apr 03 03:23			. ,	10894 Feb 06 18:17		
retrograde	10887 Jul 03 17:54	6° Y 27'14	0040110	evening set	10894 Apr 02 08:32	2° 8 37'56	
opposition	10887 Sep 16 06:36	4° Υ 26'01		. ,.	10004 4 10 06 50	20 0 2 512 5	0057154
min. Earth dist.	10887 Sep 16 09:30		17.70165 AU	conjunction	10894 Apr 18 06:50	3° 8 35'25 3° 8 35'25	
direct	10887 Dec 01 23:06	2° Υ 21'58		minimum elong	10894 Apr 18 06:49		
evening set	10888 Mar 05 19:03	5° Ƴ 45′08		max. Earth dist.	10894 Apr 18 09:07		20.11569 AU
	10000 14 21 22 21	co 00 44120	0045150	morning rise	10894 May 04 03:11	4° 8 32'38	
conjunction	10888 Mar 21 22:21	6° ℃ 44'28		retrograde	10894 Aug 03 15:12	7° 8 45'34	1004140
minimum elong	10888 Mar 21 22:21		0°45'53	opposition	10894 Oct 18 03:04	5° 8 45'49	
max. Earth dist.	10888 Mar 21 19:50		19.73138 AU	min. Earth dist.	10894 Oct 17 23:46		18.14798 AU
morning rise	10888 Apr 06 22:55	7° Υ 43'26		direct	10895 Jan 03 05:39	3° 8 44'01	
retrograde	10888 Jul 07 12:30	11° Υ 00'47	0050127	evening set	10895 Apr 06 23:24	6° 8 59'59	
opposition	10888 Sep 20 04:15	8° Υ 59'50			10005 4 22 20 50	70057110	0050142
min. Earth dist.	10888 Sep 20 05:56		17.76178 AU	conjunction	10895 Apr 22 20:59	7° 8 57'10	
direct	10888 Dec 05 23:03	6° Ƴ 56'07 10° Ƴ 18'23		minimum elong	10895 Apr 22 20:59	7° 8 57'10	
evening set	10889 Mar 10 15:32	10 1823		max. Earth dist.	10895 Apr 23 00:17		20.17995 AU
	10000 Mar. 26, 17.50	11° Υ 17'25	0949143	morning rise	10895 May 08 16:47	8° と 54'07 12° と 06'19	
conjunction	10889 Mar 26 17:50			retrograde	10895 Aug 08 04:17	12°806'41	1005121
minimum elong	10889 Mar 26 17:50	11° Υ 17'25		opposition	10895 Oct 22 20:49	. •	18.21211 AU
max. Earth dist.	10889 Mar 26 15:40	11° γ 1703 12° γ 16'06	19.79276 AU	min. Earth dist.	10895 Oct 22 17:37	8° 8 05'08	18.21211 AU
morning rise	10889 Apr 11 17:42 10889 Jul 12 06:07	12 γ 16 06 15° γ 32'44		direct evening set	10896 Jan 07 23:09 10896 Apr 10 13:17	11° 8 19'59	
retrograde opposition		13 γ 32 44 13° γ 32'02	0055125	evening set	10890 Apr 10 13.17	11 01939	
min. Earth dist.	10889 Sep 25 01:29 10889 Sep 25 02:42		-0 33 33 17.82431 AU	aamiumatian	10006 Ame 26 10:14	12° 8 16'52	0950!12
direct	10889 Sep 23 02.42 10889 Dec 10 21:30	13 γ 31 34 11° γ 28'39	17.62431 AU	conjunction minimum elong	10896 Apr 26 10:14 10896 Apr 26 10:14	12° 8 16'52	
evening set	10899 Dec 10 21:30 10890 Mar 15 11:09	11 γ 26 39 14° Υ 49'58		max. Earth dist.	10896 Apr 26 14:19		20.24395 AU
evening set	10090 Iviai 13 11.09	14 49 36			10896 May 12 05:37	13° 8 13'33	20.24393 AU
conjunction	10890 Mar 31 12:39	15° Ƴ 48'41	-0°51'12	morning rise	10896 May 12 05:37 10896 Jun 14 12:49	15° 8	
minimum elong	10890 Mar 31 12:39		0°51'20	retrograde	10896 Aug 11 18:30	16° 8 25'01	
max. Earth dist.	10890 Mar 31 12:59		19.85610 AU	icuograde	10896 Aug 11 18.30 10896 Oct 12 09:26	16 62 3 01	
morning rise	10890 Apr 16 11:38	16° Υ 47'04	17.03010 AC	opposition	10896 Oct 26 13:35	14° 8 25'30	1°05'50
retrograde	10890 Apr 16 11.38 10890 Jul 16 23:54	10 γ 47 04 20° Υ '02'59		min. Earth dist.	10896 Oct 26 13:33 10896 Oct 26 08:26		18.27594 AU
opposition	10890 Sep 29 22:02	18° Υ '02'31	-0°58'10	direct	10897 Jan 11 17:18	12° 8 24'14	10.2/3/7 AU
min. Earth dist.	10890 Sep 29 21:58		17.88825 AU	direct	10897 Apr 04 00:32	15°8	
direct	10890 Dec 15 20:34	15° Υ 59'29	17.00023710	evening set	10897 Apr 15 02:10	15° 8 37'57	
evening set	10890 Dec 13 20:54 10891 Mar 20 05:59	19° Υ 19'47		evening set	1007/ Apr 13 02.10	15 05/5/	
evening set	100)1 Wai 20 03.3)	17 1747		conjunction	10897 Apr 30 22:35	16° 8 34'34	-0°59'20
conjunction	10891 Apr 05 06:32	20° Y 18'12	-0°53'23	minimum elong	10897 Apr 30 22:35	16° 8 34'34	
minimum elong	10891 Apr 05 06:32	20°Υ18'12		max. Earth dist.	10897 May 01 04:03		20.30763 AU
max. Earth dist.	10891 Apr 05 06:19		19.92055 AU	morning rise	10897 May 16 17:31	17° 8 30'59	20.20702710
morning rise	10891 Apr 21 04:49	21° Υ 16'17	23.52335710	retrograde	10897 Aug 16 06:12	20° 8 41'45	
retrograde	10891 Jul 21 16:01	24° Υ 31'28		opposition	10897 Oct 31 05:53	18° 8 42'21	-1°05'47
opposition	10891 Oct 04 18:22	22° Υ 31'13	-1°00'24	min. Earth dist.	10897 Oct 31 00:44		18.33966 AU
min. Earth dist.	10891 Oct 04 18:07		17.95319 AU	direct	10898 Jan 16 09:02	16° 8 41'23	
direct	10891 Dec 20 16:59	20° Υ 28'30		evening set	10898 Apr 19 14:13	19° 8 54'01	
evening set	10892 Mar 23 23:40	23° Y 47'46		<i>5</i>	r	3	
3				conjunction	10898 May 05 10:03	20° 8 50'21	-0°59'08
conjunction	10892 Apr 08 23:27	24° Ƴ 45'52	-0°55'14	minimum elong	10898 May 05 10:02	20° 8 50'21	
	r						-

max. Earth dist.	10898 May 05 16:09	20° 8 51'16	20.37133 AU	min. Earth dist.	10904 Nov 30 19:12	17° Ⅱ 57'56	18.75837 AU
morning rise	10898 May 21 04:39	21° 8 46'32		direct	10905 Feb 16 08:05	15° Ⅲ 58'11	
retrograde	10898 Aug 20 19:39	24° 8 56'38		evening set	10905 May 19 06:01	19° ∏ 04'12	
opposition	10898 Nov 04 21:21	22° 8 57'23	-1°05'22	· ·	,		
min. Earth dist.	10898 Nov 04 14:04	_	18.40327 AU	conjunction	10905 Jun 03 23:50	19° ∏ 59'02	-0°49'19
direct	10899 Jan 21 01:14	20° 8 56'44	10.40327 710	minimum elong	10905 Jun 03 23:50	19° Д 59'02	
		24° 8 08'19		max. Earth dist.	10905 Jun 04 11:39		20.78314 AU
evening set	10899 Apr 24 01:24	24 008 19					20.78314 AU
				morning rise	10905 Jun 19 17:34	20° Ⅲ 53'53	
conjunction	10899 May 09 20:48	25° 8 04'24		retrograde	10905 Sep 19 20:41	24° ∏ 00′28	
minimum elong	10899 May 09 20:48	25° 8 04'24		opposition	10905 Dec 05 18:26	22° I 102'20	
max. Earth dist.	10899 May 10 04:28	25° 8 05'33	20.43480 AU	min. Earth dist.	10905 Dec 05 07:43	22° Ⅱ 03'25	18.80729 AU
morning rise	10899 May 25 15:03	26° 8 00'21		direct	10906 Feb 20 18:21	20° Ⅱ 04′00	
retrograde	10899 Aug 25 06:09	29° 8 09'50		evening set	10906 May 23 12:54	23° Ⅲ 09′13	
opposition	10899 Nov 09 12:25	27° 8 10'45	-1°04'35				
min. Earth dist.	10899 Nov 09 05:07	27° 8 11'30	18.46661 AU	conjunction	10906 Jun 08 06:31	24° Ⅲ 03'53	-0°46'51
direct	10900 Jan 25 15:20	25° 8 10'27		minimum elong	10906 Jun 08 06:32	24° Ⅱ 03'53	0°47'27
evening set	10900 Apr 28 11:42	28° 8 21'01		max. Earth dist.	10906 Jun 08 17:45		20.82995 AU
evening set	10700 Apr 20 11.42	20 02101		morning rise	10906 Jun 24 00:28	24° Д 58'36	20.02))3 110
:	10000 M 14 06-20	200 🗸 1 (151	0057147	•		24 H 38 30 28°H 04'48	
conjunction	10900 May 14 06:39	29° 8 16'51		retrograde	10906 Sep 24 06:35		0050105
minimum elong	10900 May 14 06:39	29° 8 16'51	0°58'16	opposition	10906 Dec 10 05:45	26° Ⅱ 06'45	
max. Earth dist.	10900 May 14 14:45		20.49787 AU	min. Earth dist.	10906 Dec 09 17:58		18.85184 AU
	10900 May 26 10:26	Π °0		direct	10907 Feb 25 05:44	24° Ⅱ 08'38	
morning rise	10900 May 30 00:47	0° Ⅱ 12'35		evening set	10907 May 27 19:15	27° Ⅱ 13'04	
retrograde	10900 Aug 29 19:22	3° Ⅱ 21'30					
opposition	10900 Nov 14 02:40	1° Ⅱ 22'36	-1°03'29	conjunction	10907 Jun 12 12:58	28° Ⅲ 07'36	-0°44'10
min. Earth dist.	10900 Nov 13 17:25	1° Ⅲ 23'33	18.52913 AU	minimum elong	10907 Jun 12 12:58	28° Ⅲ 07'36	0°44'47
	10900 Dec 21 11:37	30° ₹ 8		max. Earth dist.	10907 Jun 13 01:11	28° ∏ 09'22	20.87216 AU
direct	10901 Jan 30 05:53	29° 8 22'39		morning rise	10907 Jun 28 06:58	29° Ⅱ 02'11	
	10901 Mar 09 22:22	0°Ⅲ		Č	10907 Jul 15 23:40	0°95	
evening set	10901 May 02 21:22	2° ∏ 32'15		retrograde	10907 Sep 28 13:58	2°508'02	
evening set	10701 Way 02 21.22	2 1132 13		opposition	10907 Dec 14 16:39	0°9510'01	0°47'10
agniumation	10901 May 18 16:03	3° Ⅱ 27'51	0°56'20	min. Earth dist.	10907 Dec 14 10:39 10907 Dec 14 05:31		18.89174 AU
conjunction	•	3° П 27'51		IIIII. Eartii tiist.			10.09174 AU
minimum elong	10901 May 18 16:03			T	10907 Dec 18 20:51	30°RⅡ	
max. Earth dist.	10901 May 19 01:36		20.55970 AU	direct	10908 Feb 29 15:13	28° Ⅱ 12'05	
morning rise	10901 Jun 03 09:54	4° Ⅲ 23'23			10908 May 07 07:43	0ა ௐ	
retrograde	10901 Sep 03 04:42	7° Ⅲ 31'45		evening set	10908 May 31 01:06	1° © 15'45	
opposition	10901 Nov 18 16:23	5° Ⅲ 33′03					
min. Earth dist.	10901 Nov 18 07:27	5° Ⅱ 33'57	18.59017 AU	conjunction	10908 Jun 15 18:48	2° © 10'09	-0°41'16
direct	10902 Feb 03 18:28	3° Ⅲ 33'28		minimum elong	10908 Jun 15 18:48	2° © 10'09	0°41'53
evening set	10902 May 07 06:28	6° Ⅱ 42'07		max. Earth dist.	10908 Jun 16 06:19	2° 5 911'49	20.90987 AU
				morning rise	10908 Jul 01 13:11	3° © 04'39	
conjunction	10902 May 23 00:45	7° Ⅱ 37'30	-0°55'13	retrograde	10908 Oct 01 22:29	6° © 10'10	
minimum elong	10902 May 23 00:45	7° Ⅲ 37'30	0°55'45	opposition	10908 Dec 18 02:58	4°9512'08	-0°44'00
max. Earth dist.	10902 May 23 10:21	7° Ⅱ 38'55	20.61984 AU	min. Earth dist.	10908 Dec 17 14:55	4°9513'20	18.92720 AU
morning rise	10902 Jun 07 18:35	8° ∏ 32'50		direct	10909 Mar 05 00:59	2° © 14'19	
retrograde	10902 Sep 07 17:07	11° Ⅱ 40'43		evening set	10909 Jun 04 06:29	5° © 17'18	
opposition	10902 Sep 07 17:07 10902 Nov 23 05:36	9° ∏ 42'11	1°00'17	evening set	10707 Juli 04 00.27	3 317 10	
min. Earth dist.	10902 Nov 23 03:30 10902 Nov 22 19:02		18.64916 AU	conjunction	10909 Jun 20 00:22	6° © 11'35	-0°38'11
direct	10902 Nov 22 19.02 10903 Feb 08 08:11	9 П 43 13 7° П 42'57	10.07910 AU	minimum elong	10909 Jun 20 00:22	6°911'35	
				•			
evening set	10903 May 11 14:45	10° ∏ 50'41		max. Earth dist.	10909 Jun 20 12:59		20.94313 AU
				morning rise	10909 Jul 05 18:53	7° © 05'59	
conjunction	10903 May 27 08:52	11° ∐ 45'52		retrograde	10909 Oct 06 05:18	10° © 11'13	
minimum elong	10903 May 27 08:52	11° ∏ 45'52	0°54'03	opposition	10909 Dec 22 12:48	8° © 13'09	-0°40'28
max. Earth dist.	10903 May 27 19:53	11° Ⅱ 47'30	20.67748 AU	min. Earth dist.	10909 Dec 22 01:14	8° © 14'18	18.95844 AU
morning rise	10903 Jun 12 02:32	12° ∏ 41′02		direct	10910 Mar 09 09:26	6° ॐ 15′28	
retrograde	10903 Sep 12 01:42	15° Ⅱ 48′27		evening set	10910 Jun 08 11:34	9° 5 17'47	
opposition	10903 Nov 27 18:30	13° Ⅱ 50'05	-0°58'14				
min. Earth dist.	10903 Nov 27 08:22	13° Ⅱ 51′06	18.70540 AU	conjunction	10910 Jun 24 05:27	10° © 11'58	-0°34'55
direct	10904 Feb 12 19:22	11° Ⅲ 51'11		minimum elong	10910 Jun 24 05:27	10° © 11'59	0°35'31
evening set	10904 May 14 22:41	14° ∏ 58'02		max. Earth dist.	10910 Jun 24 17:31		20.97261 AU
	y - ·11			morning rise	10910 Jul 10 00:24	11° © 06'19	
conjunction	10904 May 30 16:31	15° ∏ 53'02	-0°51'32	retrograde	10910 Oct 10 13:15	14°9511'18	
minimum elong	10904 May 30 16:31 10904 May 30 16:32	15° Ц 53'02		opposition	10910 Oct 10 13.13 10910 Dec 26 22:17	14 911 18 12°913'11	0°36'45
•							
max. Earth dist.	10904 May 31 03:16		20.73218 AU	min. Earth dist.	10910 Dec 26 09:40		18.98618 AU
morning rise	10904 Jun 15 10:19	16° Ⅱ 48'02		direct	10911 Mar 13 17:44	10°9515'37	
retrograde	10904 Sep 15 12:50	19° ∏ 55'01	0055:	evening set	10911 Jun 12 16:07	13° © 17'21	
opposition	10904 Dec 01 06:34	17° Ⅱ 56'47	-0°55'53				

page 26

marning rise	10022 Aug 26 19:40	28° Ω 49'46		annagition	10020 Mar. 10, 02:20	2.40 ms 1.112.6	0940121
morning rise	10922 Aug 26 18:40	0°m		opposition min. Earth dist.	10929 Mar 10 03:30	24° Mp 11'36	18.76302 AU
ratragrada	10922 Sep 17 20:52 10922 Nov 28 12:16	1° m)56'08		direct	10929 Mar 09 21:27 10929 May 24 09:41	24 III 12 13 22° M) 13'35	18.70302 AU
retrograde	10922 Nov 28 12:10 10923 Feb 12 22:02	1 11/3008 30°RΩ		evening set	10929 May 24 09:41 10929 Aug 22 21:01	25° m) 16'23	
opposition	10923 Feb 12 22:02 10923 Feb 14 00:54	30 ₹87 29° Ω 57'18	0015120	evening set	10929 Aug 22 21.01	23 11/1023	
min. Earth dist.	10923 Feb 14 00.34 10923 Feb 13 15:29		18.99727 AU	conjunction	10929 Sep 08 00:15	26° m 12'04	0°38'07
		$29^{\circ} \Omega_{00'15}$	18.99727 AU	minimum elong	10929 Sep 08 00:15	-	0°38'01
direct	10923 Apr 30 19:14 10923 Jul 11 05:00	28° 3'2 00'15		max. Earth dist.		26° Mp 12'04	20.73868 AU
avanina aat	10923 Jul 30 00:37	1°M/00'23		morning rise	10929 Sep 08 07:00 10929 Sep 24 06:04	20 mg 13 02 27° mg 08'09	20.73606 AU
evening set	10925 Jul 30 00.57	1 111/00/23		morning rise	1		
	10022 4 14 22 55	10 m. 5 4150	0017104	. 1	10929 Nov 30 10:12	0° ™	
conjunction	10923 Aug 14 23:55	1° Mp 54'58	0°16'04	retrograde	10929 Dec 27 12:44	0° ≏ 18'07	
minimum elong	10923 Aug 14 23:55	1° Mp 54'58	0°15'43	••	10930 Jan 23 20:38	30°RM)	00.42150
behind sun begin	10923 Aug 14 22:31	1° Mp 54'46		opposition	10930 Mar 14 13:02	28° m 17'58	
behind sun end	10923 Aug 15 01:19	1° m 55'10		min. Earth dist.	10930 Mar 14 07:26		18.71367 AU
max. Earth dist.	10923 Aug 15 10:03		20.98227 AU	direct	10930 May 28 18:09	26° m 19'48	
morning rise	10923 Aug 31 01:39	2° m/49'55		evening set	10930 Aug 27 06:43	29° m 23'17	
retrograde	10923 Dec 02 20:31	5° ™ 56'39			10930 Sep 06 22:28	0∘ ত	
opposition	10924 Feb 18 08:46	3° ™ 57'37					
min. Earth dist.	10924 Feb 17 23:56	•	18.96633 AU	conjunction	10930 Sep 12 10:31	0° ჲ 19'11	
direct	10924 May 04 00:41	2°Mp00'25		minimum elong	10930 Sep 12 10:31	0° ჲ 19'11	0°41'13
evening set	10924 Aug 02 06:49	5° ™ 00'49		max. Earth dist.	10930 Sep 12 15:18	0° ഫ 19'53	20.68793 AU
				morning rise	10930 Sep 28 17:12	1° ≏ 15'31	
conjunction	10924 Aug 18 06:36	5° Mp 55′32	0°20'01	retrograde	10931 Jan 01 00:52	4° ≏ 26'11	
minimum elong	10924 Aug 18 06:35	5° M 55'32	0°19'43	opposition	10931 Mar 18 23:04	2° ≏ 25'52	0°47'23
max. Earth dist.	10924 Aug 18 15:11	5° № 56'46	20.94951 AU	min. Earth dist.	10931 Mar 18 18:46	2° ჲ 26'19	18.66141 AU
morning rise	10924 Sep 03 09:09	6° Mp 50′39		direct	10931 Jun 02 01:35	0° م 27'30	
retrograde	10924 Dec 06 06:36	9° ™ 57'48		evening set	10931 Aug 31 17:18	3° ₾ 31'44	
opposition	10925 Feb 21 16:52	7° m 58'33	0°24'16				
min. Earth dist.	10925 Feb 21 08:32	7° m 59'23	18.93184 AU	conjunction	10931 Sep 16 21:58	4° ≏ 27'53	0°44'14
direct	10925 May 08 07:13	6° Mp01'11		minimum elong	10931 Sep 16 21:58	4° £ 27'53	0°44'14
evening set	10925 Aug 06 13:13	9° ™ 01'55		max. Earth dist.	10931 Sep 17 02:46	4° £ 28'35	20.63394 AU
				morning rise	10931 Oct 03 05:09	5° ≗ 24'27	
conjunction	10925 Aug 22 13:44	9° ™ 56'48	0°23'53	retrograde	10932 Jan 05 14:13	8° ≏ 35'49	
minimum elong	10925 Aug 22 13:44	9° № 56'48	0°23'37	opposition	10932 Mar 22 09:21	6° £ 35′21	0°50'34
max. Earth dist.	10925 Aug 22 22:54	9° m 58'07	20.91322 AU	min. Earth dist.	10932 Mar 22 05:42	6° ₽ 35'43	18.60568 AU
morning rise	10925 Sep 07 16:47	10° m 52'05		direct	10932 Jun 05 11:13	4° ₽ 36'46	
retrograde	10925 Dec 10 16:00	13° m 59'42		evening set	10932 Sep 04 04:52	7° ≏ 41'47	
opposition	10926 Feb 26 01:09	12° mp 00'15	0°28'30	C	1		
min. Earth dist.	10926 Feb 25 17:10		18.89393 AU	conjunction	10932 Sep 20 10:04	8° ≏ 38'12	0°47'00
direct	10926 May 12 13:26	10° m 02'44		minimum elong	10932 Sep 20 10:04	8° ≏ 38'12	0°47'01
evening set	10926 Aug 10 20:18	13° m 03'53		max. Earth dist.	10932 Sep 20 12:27		20.57650 AU
S	Č	·		morning rise	10932 Oct 06 18:04	9° Ω 35'01	
conjunction	10926 Aug 26 21:21	13° m 58'56	0°27'39	retrograde	10933 Jan 09 03:41	12° ≗ 47'07	
minimum elong	10926 Aug 26 21:20	13° m 58'56	0°27'26	opposition	10933 Mar 26 20:21	10° ≏ 46′26	0°53'30
max. Earth dist.	10926 Aug 27 04:58	•	20.87389 AU	min. Earth dist.	10933 Mar 26 18:18		18.54655 AU
morning rise	10926 Sep 12 01:15	14° m 54'24		direct	10933 Jun 09 19:58	8° ≏ 47'35	
retrograde	10926 Dec 15 02:33	18° m 02'33		evening set	10933 Sep 08 16:55	11° ≏ 53'26	
opposition	10927 Mar 02 09:39	16° m 02'54	0°32'36	Č	1		
min. Earth dist.	10927 Mar 02 02:19	16° m 03'38	18.85318 AU	conjunction	10933 Sep 24 23:00	12° ≏ 50'07	0°49'31
direct	10927 May 16 19:49	14° m 05'12		minimum elong	10933 Sep 24 23:00	12° ♀ 50'07	0°49'36
evening set	10927 Aug 15 03:48	17° m 06'49		max. Earth dist.	10933 Sep 25 01:18	12° ♀ 50'27	20.51561 AU
3				morning rise	10933 Oct 11 07:29	13° ≏ 47'12	
conjunction	10927 Aug 31 05:41	18° m 02'05	0°31'17	retrograde	10934 Jan 13 17:53	17° ♀ 00'00	
minimum elong	10927 Aug 31 05:41	18° Mp 02'05	0°31'06	opposition	10934 Mar 31 07:47	14° £ 59'05	0°56'11
max. Earth dist.	10927 Aug 31 13:48		20.83163 AU	min. Earth dist.	10934 Mar 31 06:10		18.48400 AU
morning rise	10927 Aug 31 13:48 10927 Sep 16 10:08	18° Mp 57'44	20.05105710	direct	10934 Jun 14 07:00	12° ⊆ 59'57	20.10100710
retrograde	10927 Dec 19 13:27	22° Mp 06'27		evening set	10934 Sep 13 06:02	16° Ω 06'40	
opposition	10928 Mar 05 18:25	20° m) 06'37	0°36'34		10,5.5 c p 15 00.02	10 -00 -0	
min. Earth dist.	10928 Mar 05 11:28	20° m) 07'20		conjunction	10934 Sep 29 12:41	17° ჲ 03'37	0°51'47
direct	10928 May 20 03:09	18° Mp 08'47	10.00/TJ AU	minimum elong	10934 Sep 29 12:41	17° ⊆ 03'37	
evening set	10928 May 20 03:09 10928 Aug 18 12:08	21° Mp 10'57		max. Earth dist.	10934 Sep 29 12:41 10934 Sep 29 12:36		20.45166 AU
evening set	10720 Aug 10 12.00	/ U 1 براا 1 د		morning rise	10934 Sep 29 12.30 10934 Oct 15 22:00	17 ≥ 03 36 18° ⊆ 00'58	20.73100 AU
conjunction	10928 Sep 03 14:32	22° m 06'24	0°34'47	retrograde	10934 Oct 13 22:00 10935 Jan 18 08:18	18 ≥ 00 38 21° ⊆ 14'30	
minimum elong	10928 Sep 03 14:32 10928 Sep 03 14:32	22° My 06'24		opposition	10935 Jan 18 08:18 10935 Apr 04 19:37	19° £ 13'19	0°58'35
max. Earth dist.	10928 Sep 03 14:32 10928 Sep 03 20:54	•	20.78656 AU	min. Earth dist.	10935 Apr 04 19:37 10935 Apr 04 19:43		18.41882 AU
	10928 Sep 03 20:34 10928 Sep 19 19:49	23° Mp 02'16	20.70030 AU		10935 Apr 04 19:43 10935 Jun 18 17:10	19° 2 213'19	10.41004 AU
morning rise	10928 Sep 19 19:49 10928 Dec 23 00:26	26° Mp 11'36		direct evening set	10935 Jun 18 17:10 10935 Sep 17 19:46	1/° ≥ 13′50 20° ⊆ 21′27	
retrograde	10920 DEC 23 00.20	20 البيان 20		evening set	10933 оср 1/ 19.40	20 == 21 2/	

agniumation	10025 Oat 04 02:21	210 0 10142	0052140	morning rise	10041 Nov. 16, 00:55	100 m 24112	
conjunction minimum elong	10935 Oct 04 03:21	21° ♀ 18'42 21° ♀ 18'42	0°53'48 0°53'58	morning rise retrograde	10941 Nov 16 00:55	18°M24'13 21°M42'53	
max. Earth dist.	10935 Oct 04 03:21 10935 Oct 04 03:15		20.38536 AU	opposition	10942 Feb 18 08:24	19°M40'11	1°05'50
morning rise	10935 Oct 04 03:13 10935 Oct 20 13:09	21 ≗ 1841 22° ≗ 16'19	20.38330 AU	min. Earth dist.	10942 May 04 21:05 10942 May 05 01:33		1 03 30 17.94684 AU
•	10935 Oct 20 13:09 10936 Jan 22 23:27	25° £ 30'33		direct	10942 Jul 18 14:56	17°M38'16	17.94004 AU
retrograde opposition	10936 Jan 22 23.27 10936 Apr 08 07:52	23° £ 29'08	1°00'40	evening set	10942 Jul 18 14.36 10942 Oct 18 20:28	20°M53'12	
min. Earth dist.	10936 Apr 08 08:13		18.35155 AU	evening set	10942 Oct 18 20.28	20 11633 12	
direct	10936 Apr 08 08:13	23 = 2903 21° £ 29'18	16.55155 AU	conjunction	10942 Nov 04 08:32	21°M52'32	0°50'01
evening set	10936 Sep 21 10:27	24° £ 37'51		minimum elong	10942 Nov 04 08:32	21°M52'32	0°59'27
evening set	10930 Sep 21 10.27	24 = 37 31		max. Earth dist.	10942 Nov 04 08:32 10942 Nov 04 01:47		19.91504 AU
conjunction	10936 Oct 07 18:32	25° ≏ 35'22	0°55'31	morning rise	10942 Nov 04 01:47 10942 Nov 20 22:02	22°ML52'07	19.91304 AU
minimum elong	10936 Oct 07 18:31	25° ⊆ 35'22		retrograde	10942 Nov 20 22:02 10943 Feb 23 03:51	26°M11'30	
max. Earth dist.	10936 Oct 07 16:19		20.31739 AU	opposition	10943 May 09 13:32	24°ML08'42	1°05'21
morning rise	10936 Oct 07 10:19 10936 Oct 24 05:03	25 ⊆ 33'16	20.31739 AU	min. Earth dist.	10943 May 09 19:44		17.88401 AU
retrograde	10930 Oct 24 03:03 10937 Jan 26 14:32	20 = 33 10 29° £ 48'15		direct	10943 Jul 23 05:55	22°M06'29	17.00401 AU
opposition	10937 Jan 20 14:32 10937 Apr 12 20:41	29 ⊆ 46 13 27° ⊆ 46'33	1°02'26	evening set	10943 Jul 23 03:33 10943 Oct 23 17:29	25°M22'35	
min. Earth dist.	10937 Apr 12 20:41 10937 Apr 12 22:39		18.28317 AU	evening set	10943 Oct 23 17.29	23 1162233	
direct	10937 Apri 12 22:39 10937 Jun 26 16:53	27 = 4021 25° £ 46'21	10.2031/ AU	agnismation	10943 Nov 09 06:11	26°M22'13	0°58'23
	10937 Jun 26 16:33 10937 Sep 26 01:47	28° £ 55'53		conjunction	10943 Nov 09 06:11 10943 Nov 09 06:11	26°M22'13	0°58'52
evening set	1093 / Sep 26 01.47	28 == 33 33		minimum elong max. Earth dist.	10943 Nov 09 00.11 10943 Nov 08 23:03		19.85317 AU
conjunction	10937 Oct 12 10:44	29° ≏ 53'43	0°56'56	morning rise	10943 Nov 08 23:03 10943 Nov 25 20:01	20 IL21 08 27°M22'04	19.83317 AU
minimum elong	10937 Oct 12 10:44 10937 Oct 12 10:43	29 ⊆ 53'43	0°57'11	morning rise	10944 Jan 18 16:42	0° x ¹	
=				ratra arada	10944 Jan 18 10.42 10944 Feb 28 01:57	0° х ¹42'09	
max. Earth dist.	10937 Oct 12 08:42		20.24870 AU	retrograde			
	10937 Oct 14 05:07	0°M			10944 Apr 09 01:27	30°RM	1904120
morning rise	10937 Oct 28 21:41	0°M51'53		opposition	10944 May 13 06:36	28°M39'15	1°04'28
retrograde	10938 Jan 31 07:07	4°M07'36	1902152	min. Earth dist.	10944 May 13 12:37		17.82297 AU
opposition	10938 Apr 17 09:55	2°M05'39	1°03'52	direct	10944 Jul 26 23:21	26°M36'47	
min. Earth dist. direct	10938 Apr 17 11:49 10938 Jul 01 06:17	0°M05'05	18.21433 AU	evening set	10944 Oct 27 15:28 10944 Oct 29 07:51	29°IL54'00 0° ⊀	
					10944 Oct 29 07.31	0 x	
evening set	10938 Sep 30 18:08	3°M15'38		agniumation	10044 Nov. 12 04:25	00.752156	0°57'23
	10020 0-4 17 02-27	49 m 12145	0050101	conjunction	10944 Nov 13 04:35	0° ₹ 53'56	
conjunction	10938 Oct 17 03:37	4°M 13'45	0°58'01	minimum elong	10944 Nov 13 04:35	0° ×753'56	0°57'53
minimum elong	10938 Oct 17 03:37	4°M13'45	0°58'20	max. Earth dist.	10944 Nov 12 20:13	0° ₹ 52'39	19.79286 AU
max. Earth dist.	10938 Oct 16 23:43		20.17989 AU	morning rise	10944 Nov 29 18:41	1° х 54'03	
morning rise	10938 Nov 02 15:18	5°M12'13		retrograde	10945 Mar 03 22:44	5° ⋌ 14'48	1002111
retrograde	10939 Feb 04 23:22	8°M28'41	100.4155	opposition	10945 May 18 00:36	3°×711'49	1°03'11
opposition	10939 Apr 21 23:52	6°M26'30	1°04'55	min. Earth dist.	10945 May 18 08:26		17.76352 AU
min. Earth dist.	10939 Apr 22 03:24		18.14578 AU	direct	10945 Jul 31 16:26	1° ₹ '09'02	
direct	10939 Jul 05 18:42	4°M25'33		evening set	10945 Nov 01 14:25	4° ∡ ¹27'23	
evening set	10939 Oct 05 11:18	7°M37'10			1004531 10 04 02	50 30 510 (0056101
	10000 0 . 01 01 05	0000 0510 6	0050145	conjunction	10945 Nov 18 04:02	5°×727'36	0°56'01
conjunction	10939 Oct 21 21:37	8°M35'36	0°58'47	minimum elong	10945 Nov 18 04:02	5° ₹ ¹27'36	0°56'33
minimum elong	10939 Oct 21 21:36	8°M35'36	0°59'07	max. Earth dist.	10945 Nov 17 18:45	5° 1 26'11	19.73423 AU
max. Earth dist.	10939 Oct 21 17:51		20.11163 AU	morning rise	10945 Dec 04 18:26	6° ₹ ¹27'58	
morning rise	10939 Nov 07 09:40	9°M34'20		retrograde	10946 Mar 08 21:37	9° ⋌ ¹49'19	
retrograde	10940 Feb 09 17:59	12°M51'32		opposition	10946 May 22 19:04	7° √ 46'14	1°01'29
opposition	10940 Apr 25 14:09	10°M49'09	1°05'37	min. Earth dist.	10946 May 23 02:51		17.70565 AU
min. Earth dist.	10940 Apr 25 17:26		18.07797 AU	direct	10946 Aug 05 12:02	5° ⋌ ¹43'09	
direct	10940 Jul 09 09:33	8°M47'52		evening set	10946 Nov 06 14:17	9° ∡ 02'35	
evening set	10940 Oct 09 05:31	12°M00'34			1004637 22 212	100 3000	0054115
				conjunction	10946 Nov 23 04:21	10° ₹ '03'04	0°54'17
conjunction	10940 Oct 25 16:19	12°M59'17	0°59'13	minimum elong	10946 Nov 23 04:21	10° ₹ '03'04	0°54'51
minimum elong	10940 Oct 25 16:19	12° M 59'17	0°59'36	max. Earth dist.	10946 Nov 22 18:03		19.67707 AU
max. Earth dist.	10940 Oct 25 10:54		20.04441 AU	morning rise	10946 Dec 09 18:54	11° ∡ ′03'40	
morning rise	10940 Nov 11 04:57	13°M58'19		retrograde	10947 Mar 13 19:06	14° ₹ ¹25'34	
	10940 Nov 29 12:06	15° M ₊		opposition	10947 May 27 14:25	12° ∡ ′22′23	0°59'23
retrograde	10941 Feb 13 11:36	17° M .16'15		min. Earth dist.	10947 May 27 23:55		17.64939 AU
opposition	10941 Apr 30 05:22	15°M₁3'42		direct	10947 Aug 10 07:28	10° ∡ 18'59	
min. Earth dist.	10941 Apr 30 10:12		18.01156 AU	evening set	10947 Nov 11 14:56	13° ∡ ³39'27	
	10941 May 05 13:58	15°RM					
direct	10941 Jul 13 22:54	13°ML12'04		conjunction	10947 Nov 28 05:19	14° ≯ 740'11	0°52'13
	10941 Sep 17 22:03	15° M ₊		minimum elong	10947 Nov 28 05:19	14° ∡ °40′11	0°52'47
evening set	10941 Oct 14 00:21	16°M25'52		max. Earth dist.	10947 Nov 27 17:44	14° ₹ ³38'24	19.62188 AU
				morning rise	10947 Dec 14 20:05	15° ∡ ′41′00	
conjunction	10941 Oct 30 11:55	17° M 24'55	0°59'18	retrograde	10948 Mar 17 18:10	19° ∡ ¹03'24	
minimum elong	10941 Oct 30 11:54	17°M24'55	0°59'42	opposition	10948 May 31 10:08	17° ∡ °00'05	0°56'54
max. Earth dist.	10941 Oct 30 06:35	17° M 24'07	19.97885 AU	min. Earth dist.	10948 May 31 19:33	16° ₹ ′59'04	17.59532 AU

direct	10060 Oct 10 10:05	1100016157		minimum elong	10066 Eab 22 17:44	10° ₩ 05'05	0022121
direct	10960 Oct 10 10:05 10961 Jan 09 09:03	11°≈46'57 15°≈		max. Earth dist.	10966 Feb 23 17:44 10966 Feb 23 08:51		19.43015 AU
ovening set	10961 Jan 13 15:33	15 ≈ 15°≈15'36		morning rise	10966 Mar 11 23:44	10 X 05'42	19.43013 AU
evening set	10901 Jan 13 13.33	13 ≈1330		retrograde	10966 Mai 11 23:44 10966 Jun 11 20:42	14°)(27'04	
aaniumatian	10061 Ion 20 04:11	16°≈17'28	0°00'21	opposition	10966 Aug 24 22:53	12°) (27'04	0020142
conjunction	10961 Jan 30 04:11 10961 Jan 30 04:10	16 ≈1728 16°≈17'28	0°00'48	min. Earth dist.	Č		-0 28 42 17.44826 AU
minimum elong			0 0048	direct	10966 Aug 25 07:02	12 X 23 36 10° X 19'27	17.44620 AU
behind sun begin	10961 Jan 29 21:27	16°≈16'26			10966 Nov 09 05:32		
behind sun end	10961 Jan 30 10:53	16°≈18'29	10.21 <i>666</i> ATT	evening set	10967 Feb 12 10:25	13°) (46′21	
max. Earth dist.	10961 Jan 29 15:47		19.31666 AU		100/5771 00 10 11	1.40\(45105	0000100
morning rise	10961 Feb 15 14:29	17°≈18'59		conjunction	10967 Feb 28 18:14	14°)(47'07	
desc. node	10961 Feb 23 12:23	17°≈47'42		minimum elong	10967 Feb 28 18:14	14°)(47'07	
retrograde	10961 May 19 01:09	20° ≈ 42'46		max. Earth dist.	10967 Feb 28 09:22		19.46763 AU
opposition	10961 Jul 31 20:38	18° ≈ 39'55		morning rise	10967 Mar 16 23:28	15°) 47′30	
min. Earth dist.	10961 Aug 01 06:33	18° ≈ 38'50	17.32278 AU	retrograde	10967 Jun 16 19:02	19° ∺ 08'15	
direct	10961 Oct 15 15:17	16° ≈ 34'19		opposition	10967 Aug 29 22:35	17° ∺ 06′08	
evening set	10962 Jan 18 20:04	20° ≈ 02'56		min. Earth dist.	10967 Aug 30 04:59		17.48842 AU
				direct	10967 Nov 14 07:30	15°) €00'55	
conjunction	10962 Feb 04 08:04	21° ≈ 04'41	-0°04'41	evening set	10968 Feb 17 11:06	18° ∺ 27'13	
minimum elong	10962 Feb 04 08:03	21° ≈ 04'41	0°04'15				
behind sun begin	10962 Feb 04 01:26	21° ≈ 03'40		conjunction	10968 Mar 04 18:11	19° ∺ 27'44	-0°32'10
behind sun end	10962 Feb 04 14:40	21° ≈ 05'42		minimum elong	10968 Mar 04 18:11	19°)(27'44	0°32'00
max. Earth dist.	10962 Feb 03 20:05	21° ≈ 02'49	19.32991 AU	max. Earth dist.	10968 Mar 04 11:36	19° ¥ 26'43	19.51038 AU
morning rise	10962 Feb 20 17:31	22° ≈ 06'05		morning rise	10968 Mar 20 22:19	20°) 27′51	
retrograde	10962 May 23 23:48	25° ≈ 29'29		retrograde	10968 Jun 20 16:17	23°) (47'58	
opposition	10962 Aug 05 21:22	23° ≈ 26'47	-0°07'48	opposition	10968 Sep 02 22:02	21° ¥ 46'02	-0°38'00
min. Earth dist.	10962 Aug 06 08:03		17.33836 AU	min. Earth dist.	10968 Sep 03 03:54		17.53374 AU
direct	10962 Oct 20 17:28	21°≈21'10	17.55050710	direct	10968 Nov 18 08:40	19°) (41'04	17.33371110
evening set	10963 Jan 24 00:13	24°≈49'41		evening set	10969 Feb 21 11:04	23°) (06'40	
evening set	10703 Jan 24 00.13	27 ~7771		evening set	10707100 21 11:04	23 /(00 40	
conjunction	10963 Feb 09 11:25	25° ≈ 51'17	-0°09'33	conjunction	10969 Mar 09 17:05	24°) €06'55	-0°36'06
minimum elong	10963 Feb 09 11:25	25°≈51'17	0°09'10	minimum elong	10969 Mar 09 17:05	24° \ 06'55	
behind sun begin	10963 Feb 09 05:45	25°≈50'24	0 0) 10	max. Earth dist.	10969 Mar 09 10:33		19.55826 AU
behind sun end	10963 Feb 09 17:05	25°≈52'09		morning rise	10969 Mar 25 20:31	25°) (05'47	17.55020710
max. Earth dist.	10963 Feb 08 23:27		19.34787 AU	retrograde	10969 Jun 25 13:13	28° H 26'16	
	10963 Feb 25 20:10	25 ≈49 24 26°≈52'31	19.54/6/ AU	opposition		26° H 24'33	0042114
morning rise		20 ≈32 31 0° \			10969 Sep 07 21:01		
	10963 May 05 11:05	0° ₩ 15'30		min. Earth dist.	10969 Sep 08 01:25	26 X 2403 24° X 19'50	17.58397 AU
retrograde	10963 May 29 00:39			direct	10969 Nov 23 09:13		
	10963 Jun 21 21:46	30°R≈	0012112	evening set	10970 Feb 26 10:13	27°) (44'45	
opposition	10963 Aug 10 22:01	28°≈12'54					
min. Earth dist.	10963 Aug 11 07:17		17.35858 AU	conjunction	10970 Mar 14 15:28	28°) (44'43	
direct	10963 Oct 25 22:30	26° ≈ 07'20		minimum elong	10970 Mar 14 15:28	28°) 44'43	
evening set	10964 Jan 29 03:38	29° ≈ 35'35		max. Earth dist.	10970 Mar 14 11:10		19.61062 AU
	10964 Feb 04 17:47	0° ∀		morning rise	10970 Mar 30 17:49	29°) 44'18	
					10970 Apr 04 02:20	0° Υ	
conjunction	10964 Feb 14 14:09	0° ∺ 37'01		retrograde	10970 Jun 30 09:43	3° Y 03′07	
minimum elong	10964 Feb 14 14:09	0°) 37′01	0°14'00	opposition	10970 Sep 12 19:38	1° Y 01'40	-0°46'11
behind sun begin	10964 Feb 14 10:49	0°) 36′30		min. Earth dist.	10970 Sep 12 23:21	1° Ƴ 01'16	17.63821 AU
behind sun end	10964 Feb 14 17:28	0° ∺ 37'31			10970 Oct 08 01:33	30°Ŗ ℋ	
max. Earth dist.	10964 Feb 14 03:28	0° ∺ 35′21	19.37039 AU	direct	10970 Nov 28 10:00	28° ¥ 57'17	
morning rise	10964 Mar 01 21:54	1°) 38′04			10971 Jan 17 03:32	0° Y	
retrograde	10964 Jun 01 22:59	5°) €00'34		evening set	10971 Mar 03 08:45	2° Y 21′24	
opposition	10964 Aug 14 22:39	2° ¥ 58′05	-0°18'32				
min. Earth dist.	10964 Aug 15 08:20	2° 升 57′02	17.38351 AU	conjunction	10971 Mar 19 12:53	3° Y 21′05	-0°43'11
direct	10964 Oct 30 00:32	0° ¥ 52'33		minimum elong	10971 Mar 19 12:53	3° Y 21′05	0°43'10
evening set	10965 Feb 02 06:36	4° ∺ 20′26		max. Earth dist.	10971 Mar 19 08:37	3° Y 20′26	19.66671 AU
5 · • • • • • • • • • • • • • • • • • •		. ,		morning rise	10971 Apr 04 14:30	4°Υ20'23	
conjunction	10965 Feb 18 16:12	5°) 21′40	-0°19'03	retrograde	10971 Jul 05 05:19	7° Υ 38'33	
minimum elong	10965 Feb 18 16:12	5° \ 21'40		opposition	10971 Sep 17 17:57	5° Υ 37'21	-0°49'49
max. Earth dist.	10965 Feb 18 05:28		19.39782 AU	min. Earth dist.	10971 Sep 17 17:37 10971 Sep 17 20:38		17.69598 AU
morning rise	10965 Mar 06 23:15	6° ¥ 22'31	17.57 102 AU	direct	10971 Sep 17 20:38 10971 Dec 03 09:29	3° Υ 37'04	17.07370 AU
retrograde	10965 Jun 06 22:42	9° H 44'28		evening set	10971 Dec 03 09:29 10972 Mar 07 06:07	5 1 33 18 6°Υ56'36	
•		9° X 44°28 7° X 42'06	0022142	evening set	10712 Wat 0/ 00.0/	0 13030	
opposition	10965 Aug 19 22:46			aani	10072 M- 22 00 20	700055150	0046110
min. Earth dist.	10965 Aug 20 06:55		17.41340 AU	conjunction	10972 Mar 23 09:29	7°Y55'58	
direct	10965 Nov 04 03:54	5° ¥ 36'37		minimum elong	10972 Mar 23 09:29	7°Y55'58	
evening set	10966 Feb 07 08:50	9° ₩ 04'04		max. Earth dist.	10972 Mar 23 07:14		19.72582 AU
	10066 E 1 22 15 11	1001/05/05	0022127	morning rise	10972 Apr 08 10:08	8°Υ54'59	
conjunction	10966 Feb 23 17:44	10° ₩ 05'05	-0~25'3/	retrograde	10972 Jul 09 00:40	12° Ƴ 12'28	

min. Earth dist. 10972 Sept 2 17-35 19"9011-12 17:5561 AV min. Earth dist. 10973 Mar 12 02:58 19"9014-14 17:5561 AV min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"902918 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"90291 min. Earth dist. 10973 Mar 12 05:18 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:18 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94071 min. Earth dist. 10973 Mar 12 05:19 12"90291 0-94072 min. Earth dist. 10	opposition	10972 Sep 21 15:50	10° Ƴ 11'32		conjunction	10979 Apr 24 09:17	9° 8 11'20	
Companion 1997 AM 2 0.25 1979/1971 1979/19	min. Earth dist.	10972 Sep 21 17:35		17.75621 AU	minimum elong	10979 Apr 24 09:17	9° 8 11'20	0°59'19
Compacide 1997 May 28 0518 2°9°2918 - 0°4912 1909 montemelong 1997 May 28 0518 2°9°2918 0°4912 1909 montemelong 1997 May 28 0518 2°9°2918 0°4912 1909 montemelong 1997 May 18 0519 2°9°2918 1909 montemelong 1997 May 18 0519 1909 montemelong 1997 May 18 0519 1909 montemelong 1997 May 18 0519 1909 montemelong 1997 May 18 052 1909 montemelong 1997 May 18 052 1909 montemelong 1997 May 18 052 1909 montemelong 1998 May 29 233 15°8119 1998 May 29 233 15°8119 1998 May 29 233 15°818 May 18 052 15°818 M						_		20.17084 AU
conjunction 0973 Mar 28 0.18 279°278 18 0°490°25 conjunction 0979 Mar 28 0.02 182028 A 1952 Say 28 0°490°2 18 12 8°40°2 <	evening set	109/3 Mar 12 02:58	11 7 30 14		_		_	
miname leng 10973 Mar 28 05-17 1297/2918 0-49012 mina Earth dist 10970 Not 24 05-14 129/210 12-2032 AU menting tive 10973 Mar 13 05-13 1397/2801 menting tive 10970 Apr 13 05-13 1397/2801 menting tive 10973 Apr 13 05-13 1397/2801 menting tive 10973 Apr 13 05-13 1397/2801 menting tive 10973 Apr 12 01-29 1397/2801 menting tive 10973 Apr 14 01-20 1497/4404 menting tive 10973 Apr 12 01-29 129/2514 menting tive 10974 Apr 12 01-29 129/2514 menting tive 10975 Apr 12 01-29 129/2514 menting tive 10975 Apr 12 01-29 129	aaniumatian	10072 Mar 29 05:19	120020010	0940107	•	- C	_	1905146
max. Earth dist 10973 Mar 18 6304 12°P2888 1978070 JA direct memoring rise 10998 Apr 12 0 197 292 12°P3125 12°P3281 12°	·							
morning fire 10973 Apr 13 of 13 10** 2501	•						_	16.20326 AU
Decorposition 10973 Sep 26 1420 16"94187 17"0 17"0 10"93 Sep 26 1420 16"94187 17"1 10"94187 17"1 10"94187 17"1 10"94 Part 12"1 10"94 Par				17.70707 AC				
	•				evening sec	10,00 Hpi 12 01.27	12 03 123	
min Earth dist	-			-0°56'02	conjunction	10980 Apr 27 22:30	13° K 31'19	-0°59'25
Servening set 1973 Apr 1 2249 16 17 17 18 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 19	**				-		.T.	
Second		=			•	-	_	
conjunction	evening set	10974 Mar 16 22:49			morning rise	=	14° 8 28'02	
minimum clong morning rise morni	C				C	10980 May 22 23:37		
max. Farth dist. monthing rise 10974 Apr 10 23-04 17°0'0'52 19.84993 AU min Farth dist. 10980 Nov 13 15.06 15°NB 17°NB 18 12.03 12°NB 19°NB 18 12.03 12°NB 18 12.03 12°NB 18 18 18 18 18 18 18 1	conjunction	10974 Apr 02 00:23	17° Y ′00'59	-0°51'36	retrograde	10980 Aug 13 07:10	17° 8 39'37	
	minimum elong	10974 Apr 02 00:22	17° Ƴ 00'59	0°51'43	opposition	10980 Oct 28 01:56	15° 8 40'05	-1°06'03
Performance 10974 Jul 18 12:33 21°°°15'28 10°°15'20 17*81'74 10981 10981 10;131 15'35 13*15'848 10°70'40'ct 01 1095 10°°15'101 10*58'37 10981 10*12'11 15'5'40' 10*10'40'ct 01 10974 10°71'12'00 17*81'74 10°70'32'28 10°73'40' 11'74'12'00 17*12'12'00' 17*20'22'8 10°73'40' 10'10'37' 10'10'32'28 10°73'40' 10'10'37' 10'10'32'28 10°73'40' 10'10'37' 10'10'30'34 10°33'36 10°35'36' 10'30'34 10°35'36' 10'30'34' 10'30'34' 10'33'36 10°35'36' 10'35'3	max. Earth dist.	10974 Apr 01 23:40	17° Y ′00′52	19.84993 AU	min. Earth dist.	10980 Oct 27 20:32	15° 8 40'38	18.26807 AU
opposition 10974 Oct 01 10 10 30 19°P(1801 078327 cevening set 10981 Agr 1 1 21-11 15°B 24-0 direct 10973 Dec 17 07-90 19°P(1801 078328 cevening set 10978 Mar 2 1 17-46 20°P(3228 078328) conjunction 10981 May 02 10-58 17°B-2918 0°P595 conjunction 10975 Apr 6 18:20 21°P3054 078346 max Earth dist. 10981 May 02 10-58 17°B-2918 0°P595 minimum clong 10975 Apr 6 18:20 21°P3054 078-3346 max Earth dist. 10981 May 17 18:50 29°20.30041 AU minimum clong 10975 Apr 6 18:21 21°P3054 079-3536 morning rise 10975 Apr 6 18:21 22°P2902 09081 May 17 18:50 21°B-5679 minimum clong 10975 Apr 6 18:21 22°P44223 minimum clong 10981 May 17 18:50 12°B-5679 minimum clong 10975 Oct 6 06:22 23°P44408 179-9484 U cerum clong 10981 May 17 18:50 21°B-55749 12°B-55749 opposition 10975 Oct 6 06:22 23°P4409 179-9484 U cerum clong 10982 May 06 22:32 22°B-55749 12°B-55749 10°B-5325 minimum clong 10982 May 06 22:3	morning rise	10974 Apr 17 23:25	17° Ƴ 59'24			10980 Nov 13 15:06	15° ₹ 8	
min. Earth dist. 10974 Oct 1 100.1 19"\(19'\) 17"\(19'\) 17"\(19'\) 18"\(19'\) 17"\(19'\) 18"\(19'\)	retrograde	10974 Jul 18 12:33	21° Y 15'28		direct	10981 Jan 13 05:35	13° 8 38'48	
Part	opposition	10974 Oct 01 09:58	19° Ƴ 15′01	-0°58'37		10981 Mar 11 21:11	15° 8	
evening set	min. Earth dist.	10974 Oct 01 10:03		17.88174 AU	evening set	10981 Apr 16 14:32	16° 8 52'40	
Conjunction								
Conjunction 10975 Apr 06 18.20 21°°73054 0°3336 max. Earth dist. 10981 May 10 2.16.34 17°8500° 20.30041 AU minimum clong 10975 Apr 06 17.51 21°73054 0°3356 morning rise 10981 May 11 8.05.57 18°8500° 20.30041 AU morning rise 10975 Apr 06 17.51 21°73056 1°93162 AU morning rise 10981 May 11 8.05.57 18°5417 19°5576 1°0557 1°05	evening set	10975 Mar 21 17:46	20° Ƴ 32'28		3	•	_	
max. Earth dist. 10975 Apr 06 18.20 21°9°3054 07.8356 moning rise 10981 May 18 05.57 18°845'45 max. Earth dist. 10975 Apr 22 16.41 22°9°2902 morning rise 10975 Apr 22 16.41 22°9°2902 morning rise 10975 Apr 22 16.41 22°9°2493 min. Earth dist. 10981 Nov 01 12.44 19°85'716 1705'57 min. Earth dist. 10975 Oct 06 06.22 23°9°4409 170949 direct 10982 Jan 17 20.19 17°85'5716 1705'57 min. Earth dist. 10975 Oct 06 06.21 23°9°4409 170949 direct 10982 Jan 17 20.19 17°85'5716 1705'57 min. Earth dist. 10975 Oct 06 06.21 23°9°4409 170949 direct 10982 Jan 17 20.19 17°85'5716 1705'57 min. Earth dist. 10975 Oct 06 06.21 23°9°4409 170949 direct 10982 Jan 17 20.19 17°85'5716 1705'57 min. Earth dist. 10976 Apr 10 11.33 25°9°5903 0°55'35 max. Earth dist. 10982 May 07 25.03 22°805'26 0°59'16 min. Earth dist. 10976 Apr 10 11.33 25°9°5907 1997790 AU 10982 May 06 22.35 22°805'26 0°59'16 min. Earth dist. 10976 Apr 10 11.33 25°9°5907 1997790 AU 10982 May 07 25.03 22°805'26 0°59'16 morning rise 10976 Apr 10 12.9 25°9°5907 1997790 AU 10982 May 07 25.03 22°805'26 0°59'16 morning rise 10976 Apr 10 12.9 25°9°5907 1997790 AU 10982 May 07 25.03 22°805'26 0°59'16 morning rise 10976 Apr 10 12.9 25°9°5907 1997790 AU 10982 May 07 25.03 22°805'26 0°59'16 morning rise 10976 Apr 10 12.9 25°9°5907 1997790 AU 10982 May 07 25.03 22°805'26 0°59'16 10976 May 18 20°40 18 20°40 18 20°40 1997 May 18 20°40 1997 May 18 20°40 18 20°40 1997 May 19 20°40 1997 May 19 20°40 1997 May 18 20°40 1997 May 19 20°40 1					Č	-	_	
max. Earth dist. 10975 Apr 06 17:51 21°9°30'50 19.91362 AU errograde 10981 Aug 17 18:50 21°85'63'8 10975 Apr 22 76:20'2 opposition 10981 Nov 01 18:10 19°85'716 -10°55'7 10°55'716 -10°55'7 10°55'716 -10°55'7 10°10'8 10°75'8 10°55'7 10°55'7 10°75'7 10°75'7 10°55'7 10°75'7 10°75'7 10°55'7 10°75'7 10°75'7 10°55'7 10°75'7	•	•				•	_	20.30041 AU
morning rise 10975 Apr 22 16:41 22°°C'2907 578 57	C	*			•	•	_	
Petrograde 10975 Jul 23 04:54 25°P(4423 min. Earth dist. 10981 Nov 01 12:44 19°B5749 18.33319 AU opposition 10975 Oct 06 06:10 23°P(4470 170494 0ircet 10982 Jun 17 20:10 17°B5617 17°B5617 0ircet 10975 Dec 22 04:22 23°P(4470 179484 AU organisms 10976 Mar 25 11:42 23°P(4470 179484 AU organisms 10976 Mar 25 11:42 23°P(4470 179484 AU organisms 10976 Mar 25 11:42 23°P(4705 179484 AU organisms 10976 Mar 25 11:42 25°P(5905 0°5573 0inimum clong 10976 Apr 10 11:33 25°P(5900 0°5573 0inimum clong 10976 Apr 10 11:33 25°P(5900 0°5547 0inimum clong 10976 Apr 10 11:33 25°P(5900 0°5547 0inimum clong 10976 Apr 10 11:33 25°P(5900 0°5547 0inimum clong 10976 Apr 10 12:34 25°P(5900 0°5547 0inimum clong 10976 Apr 10 12:34 25°P(5907 199790 AU 0inimum clong 10976 Apr 10 12:34 25°P(5907 199790 AU 0inimum clong 10976 Apr 10 12:34 25°P(5907 199790 AU 0inimum clong 10976 Apr 10 60 60:26 0°B 0inimum clong 10976 Apr 10 60 60:26 0°B 0inimum clong 10976 Apr 10 60 60:26 0°B 0inimum clong 10976 Apr 10 10:25 28°P(1125 100238 0inimum clong 10976 Apr 10 00:20 28°P(1132 18.01015 AU 0inimum clong 10976 Apr 10 00:20 28°P(1132 18.01015 AU 0inimum clong 10977 Apr 18 00:40 0°B				19.91362 AU	-	_	_	1005155
opposition 10975 Oct 06 06:22 23°Y4409 17-94584 AU cening set 10982 Apr 21 02:42 21°80904 direct 10975 Dec 20 0442 21°Y4120 21°Y4120 cening set 10976 Mar 25 11:42 22°Y07052 conjunction 10982 May 06 22:36 22°80526 0°5916 conjunction 10976 Apr 10 11:33 25°Y5900 0°5535 max. Earth dist. 10982 May 02 22:35 22°80526 20°80624 20:36566 AU minimum elong 10976 Apr 10 11:33 25°Y5907 0°5535 max. Earth dist. 10982 May 22 17:15 23°80139 max. Earth dist. 10976 Apr 10 11:33 25°Y5907 1997990 AU retrograde 10982 May 22 17:15 23°80139 morning rise 10976 Apr 10 12:02 25°Y5907 1997990 AU retrograde 10983 May 21 03:23 22°81238 10°529 morning rise 10976 Apr 10 12:6 22:23 0°81125 direct 10983 Apr 25 13:33 22°3234 10°529 10°529 10°529 10°53 Apr 25 13:33 22°3244 10°529 10°55943 10°529 10°55943 10°529	•	=			11			
min. Earth dist. 10975 Oct. 06 06:01.0 23°°Y4109 1.794584 AU evening set 10975 May 25 11:42 21°°Y0125 cevening set 10976 May 25 11:42 25°°Y0905 conjunction 10982 May 06 22:35 22°805'26 0°59'13 conjunction 10976 Apr 10 11:33 25°°Y5900 0°55755 max. Earth dist. 10982 May 07 05:03 22°806'22 20°806'36 0°5943 max. Earth dist. 10976 Apr 10 11:33 25°°Y5900 0°5547 morning rise 10982 May 07 05:0 22°80'19 2°80'19'9 max. Earth dist. 10976 Apr 10 12:0 25°°Y5907 199790 AU retrograde 10982 Nov 06 00:14 24°81'23 10°529 morning rise 10976 Apr 10 12:0 25°°Y5907 199790 AU retrograde 10982 Nov 06 00:14 24°81'23 10°529 retograde 10976 Au 16 20:21:3 0°81'12 1°223 1°223 1°223 1°223 1°223 2°28'11'12 1°39'38 2°28'12'01 2°28'12'01 2°38'33 2°34'12'01 2°39'38'33 3°34'12'01'02'02'02'02'02'02'02'02'02'02'02'02'02'	-			1000140			_	18.33319 AU
direct 10975 Dec 22 04:42 21°°°41'26 Conjunction 10982 May 06 22:36 22°80'526 0°59'13 conjunction 10976 Apr 10 11:33 25°°°700'52 conjunction 10982 May 06 22:35 22°80'526 0°59'13 conjunction 10976 Apr 10 11:13 25°°°590'0 0°55'35 max. Earth dist. 10982 May 07 05:03 22°80'624 20.36566 AU minimum clong 10976 Apr 10 11:19 25°°75'90'0 19.97790 AU retrograde 10982 May 20 7 05:03 22°80'624 20.36566 AU morning rise 10976 Apr 10 12:19 25°°75'90' 19.97790 AU retrograde 10982 Nay 20 17:15 23°80'139 10976 Apr 10 10 60 6:26 0°80 min. Earth dist. 10982 Nov 60 09:47 24°81'238 -1°05'29 retrograde 10976 Aug 16 20:08 30°8'1'122 -1°02'38 min. Earth dist. 10982 Nov 60 09:47 24°81'238 -1°05'29 opposition 10976 Aug 16 20:08 28°8'1'1122 -1°02'38 min. Earth dist. 10976 Oct 10 00:20 28°8'1'1122 -1°02'38 direct 10977 Apr 08 06:20 228°7'1'122 -1°02'38 min. Earth dist. 10977 Apr 15 0							_	
Conjunction 10976 Apr 10 11:33 25°Py000 20°S535 max. Earth dist. 10982 May 06 22:35 22°B0526 20°5916 20°B016 20°				17.94584 AU	evening set	10982 Apr 21 02:42	21 009 04	
conjunction 10976 Apr 10 11:33 25°N°5900 0°55°35 max. Earth dist. minimum elong 10982 May 06 22:35 22°806°24 20.36566 AU minimum elong 10976 Apr 10 11:33 25°N°5900 0°55°47 morning rise 10982 May 07 05:03 22°806°24 20.36566 AU morning rise 10976 Apr 10 12:19 25°N°5907 19.97790 AU retrograde 10982 May 22 17:15 23°801′39 19.076 Apr 10 12:19 25°N°5907 19.97790 AU retrograde 10982 May 08 09:47 24°81′238 -10°529 10976 Apr 12 6 02:23 0°81′125 morning rise 10976 Apr 12 6 21:23 0°81′125 min. Earth dist. 10982 May 06 09:47 24°81′238 -10°529 10976 Apr 12 6 21:23 0°81′125 min. Earth dist. 10983 May 11 09:21 23°83′34 10976 May 16 20:08 28°N°11′22 -1°02′38 min. Earth dist. 10976 Dec 26 02:40 28°N°11′22 -1°02′38 minimum elong 10978 May 11 09:21 26°81′950 0°58′42 direct 10976 Dec 26 02:40 28°N°11′23 18.01015 AU minimum elong 10983 May 11 09:21 26°81′950 0°58′11 evening set 10977 Apr 15 03:46 0°82′509 0°57′04 max. Earth dist. 10983 May 11 09:21 26°81′13 20°81′14 20					conjunction	10082 May 06, 22:36	220×05/26	0°50'16
conjunction minimum elong minimum elong minimum elong minimum elong max. Earth dist. 10976 Apr 10 11:33 25°N'59'00 0°55'35 max. Earth dist. 10982 May 22 17:15 23°80139 20°80139	evening set	109/0 Widi 23 11.42	23 1 00 32		-	•	_	
minimum elong 10976 Apr 10 11:33 25°№5900 0°55'47 morning rise 10982 May 22 17:15 23°₺01'39 max. Earth dist. 10976 Apr 26 09:09 26°№5949 opposition 10982 Aug 22 08:25 26°₺11'51 opposition 10976 Jul 26 09:09 26°№5949 opposition 10982 Nov 06 09:47 24°₺12'35 18.39833 AU retrograde 10976 Jul 26 21:23 0°₺11'25 direct 10983 Jan 22 13:32 22°₺12'01 opposition 10976 Aug 16 20:08 30°№7 opposition 10976 Aug 16 20:08 30°№7 opposition 10976 Oct 10 01:56 28°№1'122 1°02'38 opposition 10976 Oct 10 00:20 28°№1'122 1°02'38 opposition 10976 Oct 10 00:20 28°№1'122 1°02'38 opposition 10976 Aug 16 00:20 28°№1'122 1°02'38 opposition 10977 Apr 30 04:43 29°№2'11'32 18.01015 AU opposition 10983 May 11 09:21 26°₺19'50 0°58'42 opposition 10977 Apr 15 03:46 0°₺25'09 0°57'04 opposition 10983 May 27 03:40 27°₺15'49 opposition 10977 Apr 15 03:46 0°₺25'09 0°57'04 retrograde 10983 May 27 03:40 27°₺15'49 opposition 10977 Apr 15 03:46 0°₺25'09 0°57'04 retrograde 10983 May 27 03:40 27°₺15'49 opposition 10977 Apr 15 03:46 0°₺25'09 0°57'20 opposition 10978 Apr 19 19:01 4°₺26'24 opposition 10983 May 11 109:15 28°₺26'22 1°04'40 opposition 10978 Apr 19 19:01 4°₺26'36'38 1°04'04 opposition 10984 May 14 19:26 0°\$13:238 0°\$5'20 opposition 10984 May 14 19:26 0°\$13:238 0°\$5'49 opposition 10984 May 14 19:26 0°\$13:238 0°\$5'49 opposition 10984 May 14	conjunction	10976 Apr. 10 11:33	25°❤59'00	-0°55'35	_	•	_	
max. Earth dist. 10976 Apr 10 12:19 25°√S907 19.97790 AU retrograde opposition opposition 10982 Aug 22 08:25 26°⊗1151 20529 26°⊗1151 20529 26°W15649 20529 26°W75649 20529 opposition opposition 10982 Nov 06 09:44 24°⊗1238 1-90529 1-90529 1-9076 Aug 16 20:08 30°WY evening set opposition 10983 Aug 22 13:32 22°№1201 22°№1201 1-9076 Aug 16 20:08 30°WY evening set opposition 10976 Aug 16 20:08 28°W1122 1°0238 1-0082 Now 10 20:13 22°№1201 26°№19 10 20:08 28°W1122 1°0238 1-0083 May 11 09:21 26°№19 0°5842		_				-		20.30000110
morning rise 10976 Apr 26 09:09 26°Y56'49 opposition 10982 Nov 06 09:47 24°B12'38 1-705'29 10976 Jul 26 01:24 0°B min. Earth dist. 10982 Nov 06 09:47 24°B12'38 1-705'29 10976 Jul 26 21:23 0°B1'125 direct 10983 May 12 13:32 22°B12'01 10976 May 16 20:08 30°R°Y evening set 10983 May 11 09:21 26°B19'50 0°58'42 10983 May 11 09:21 26°B19'50 0°58'42 10977 Mar 30 04:43 29°Y27'19 max. Earth dist. 10977 Mar 30 04:43 29°Y27'19 max. Earth dist. 10983 May 11 09:21 26°B19'50 0°59'11 10977 Mar 30 04:43 29°Y27'19 max. Earth dist. 10983 May 11 09:21 26°B19'50 0°59'11 10977 Mar 30 04:43 29°Y27'19 max. Earth dist. 10983 May 11 09:21 26°B19'50 0°59'11 10977 Mar 30 04:43 29°Y27'19 max. Earth dist. 10983 May 11 09:21 26°B19'50 0°59'11 10983 May 11 09:21 26°B19'50 0°51'11 10983 May 11 09:21 26°B19'50 0°51'11 10983 May 11 09:21 26°B19'50 0°51'11 10983 May 11 09:21 28°B2'01 10983 May 11 09:21 26°B19'50 0°51'11 10983 May 11 09:21 26°B19'50 0°11'12 10983 May 11 09:21 26°B1	_	-			-	-		
Petrograde 10976 Jul 06 06:26 0°8 min. Earth dist. 10982 Nov 06 02:14 24°813'25 18.39833 AU Petrograde 10976 Aug 16 20:08 0°811'25 0°811'25 Petrograde 10976 Aug 16 20:08 0°81'125 10976 Aug 16 20:08 Petrograde 10976 Aug 16 20:08 0°87'11'32 1°02'38 Petrograde 10976 Dec 1 0 01:56 28°Y11'32 18.01015 AU Petrograde 10976 Dec 2 0 02:40 26°Y08'58 min. Earth dist. 10977 Apr 10 0 06:20 28°Y11'32 18.01015 AU Petrograde 10977 Apr 10 0 06:20 0°82'509 0°57'04 max. Earth dist. 10983 May 11 09:21 26°81'950 0°59'11 Petrograde 10977 Apr 15 03:46 0°82'509 0°57'04 morning rise 10983 May 27 03:40 27°81'54 Petrograde 10977 Apr 15 03:46 0°82'509 0°57'04 retrograde 10983 May 27 03:40 27°81'54 Petrograde 10977 Apr 15 03:46 0°82'509 0°57'04 retrograde 10983 May 27 03:40 27°81'54 Petrograde 10977 Apr 15 03:46 0°82'509 0°57'04 retrograde 10983 Nov 11 00:55 28°82'622 1°04'40 Petrograde 10977 May 01 00:47 1°82'24 direct 10984 May 15 10:51 28°82'620 18.46299 AU Petrograde 10977 Oct 14 19:20 2°836'88 18.07451 AU retrograde 10984 May 14 19:26 0°132'38 0°57'49 Petrograde 10977 Dec 30 21:35 0°85'31 retrograde 10984 May 14 19:26 0°132'38 0°57'49 Petrograde 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 14 19:26 0°132'38 0°58'20 Petrograde 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 10 313:6 1°12'82'3 1°10'3'30 Petrograde 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 10 313:6 1°12'82'3 1°10'3'30 Petrograde 10978 May 05 15:26 5°846'32 0°958'30 morning rise 10984 May 10 313:6 1°12'82'3 1°10'3'30 Petrograde 10978 May 05 15:26 5°846'32 0°9090sition 10984 May 10 313:6 1°12'82'3 1°10'3'30 Petrograde 10978 May 05 15:26 5°846'32 0°909sition 10984 May 10 313:6 1°12'82'3 1°10'3'30 Petrograde 10978 May 05 15				-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	· ·	_	-1°05'29
10976 Aug 16 20:08 30°Rγ cevening set 10983 Apr 25 13:53 25°B23'44 copposition 10976 Oct 10 01:56 28°V11'22 1°02'38 conjunction 10983 May 11 09:21 26°B1'950 -0°58'42 cevening set 10977 Mar 30 04:43 26°P0'8'58 minimum elong 10983 May 11 09:21 26°B1'950 0°59'11 cevening set 10977 Apr 18 06:20 0°B moming rise 10983 May 11 09:21 26°B1'950 0°59'11 conjunction 10977 Apr 15 03:46 0°B25'09 0°57'04 retrograde 10983 May 12 09:33 0°IL 25'24 conjunction 10977 Apr 15 03:46 0°B25'09 0°57'20 conjunction 10977 Apr 15 03:46 0°B25'09 0°57'20 cevening rise 10983 Nov 11 00:55 28°B26'22 1°04'40 cevening rise 10977 May 13 1 12:04 4°B36'32 cevening set 10984 May 14 19:26 28°B26'02 1°04'40 cevening rise 10977 Oct 14 21:01 2°B36'38 1°04'04 cevening set 10977 Oct 14 19:26 2°B36'48 18.07451 AU cevening set 10984 May 14 19:26 0°IL 32'38 0°57'49 cevening set 10978 Apr 19 19:01 4°B4'17 0°58'30 minimum elong 10984 May 14 19:26 0°IL 32'38 0°58'20 conjunction 10978 Apr 19 19:01 4°B4'17 0°58'30 moming rise 10984 May 14 19:26 0°IL 32'38 0°58'20 conjunction 10978 Apr 19 19:01 4°B4'17 0°58'30 moming rise 10984 May 14 19:26 0°IL 32'33 0°18'23'3 cevening set 10978 May 05 15:26 5°B46'32 conjunction 10984 May 14 19:26 0°IL 32'33 0°18'23'3 cevening rise 10978 May 05 15:26 5°B46'32 conjunction 10984 May 14 19:26 0°IL 32'33 0°18'33'3 cevening rise 10978 May 05 15:26 5°B46'32 conjunction 10984 May 14 19:26 0°IL 32'33 cevening rise 10984 May 05 15:26 5°B46'32 conjunction 10984 May 14 19:26 0°IL 32'33 cevening rise 10978 May 05 15:26 5°B46'32 conjunction 10984 May 14 19:26 0°IL 32'33 cevening rise 10984 May 05 15:26 5°B46'32 conjunction 10984 May 14 19:26 0°IL 32'33 cevening rise 10984 May 05 15:26 5°B46'32 conjunction 10984 May 14 15:07 2°IL 38'31 1°103'30 cevening rise 10984 May 05 15:26 5°B46	C				• •	10982 Nov 06 02:14	24° 8 13'25	18.39833 AU
opposition 10976 Oct 10 01:56 28°γ11'22 -1°02'38 min. Earth dist. 10976 Oct 10 00:20 28°γ1'132 18.01015 AU conjunction 10983 May 11 09:21 26°819'50 0°58'42 direct 10976 Dec 26 02:46 26°γ08'58 minimum elong 10983 May 11 09:21 26°819'50 0°59'11 evening set 10977 Apr 08 06:20 0°8 "morning rise 10983 May 11 109:21 26°819'50 0°59'11 conjunction 10977 Apr 08 06:20 0°8 "Evening rise 10983 May 11 109:21 26°819'50 0°59'11 conjunction 10977 Apr 15 03:46 0°8 2''9 0°57'04 retrograde 10983 May 27 03:40 2°'8 0°*15'90 max. Earth dist. 10977 Apr 15 03:46 0°8 25'90 0°57'04 retrograde 10983 May 11 09:23 20°'85'15'49 0°*12'90 0°57'04 retrograde 10983 May 11 09:21 26°'82'15'40 0°*12'90 0°57'20 10983 May 10 10:26 20°'82'15'40 0°*12'90 0°*12'90 0°*12'90 0°*12'90 0°*12'90 0°*12'90 0°*12'90 0°*12'90 0°*12'90	retrograde	10976 Jul 26 21:23	0° 8 11'25		direct	10983 Jan 22 13:32	22° 8 12'01	
Min. Earth dist. 10976 Oct 10 00:20 28°Y11'32 18.01015 AU conjunction 10983 May 11 09:21 26°B19'50 0°58'42 direct 10977 Mar 30 04:43 29°Y27'19 max. Earth dist. 10983 May 11 09:21 26°B19'50 0°59'11 max. Earth dist. 10983 May 11 17:13 26°B21'01 20.43059 AU 20°9Y07 Apr 08 06:20 0°B morning rise 10983 May 27 03:40 09°B7 0°B 0		10976 Aug 16 20:08	30° ₹Ƴ		evening set	10983 Apr 25 13:53	25° 8 23'44	
direct 10976 Dec 26 02:46 26°V08'58 minimum elong 10983 May II 09:21 26°V19'50 0°59'11 evening set 10977 Mar 30 04:43 29°V27'19 max. Earth dist. 10983 May II 17:13 26°V21'01 20.43059 AU 10977 Apr 18 06:20 0°V2 morning rise 10983 May II 17:13 26°V21'01 20.43059 AU 10987 Apr 15 03:46 0°V25'09 0°57'04 retrograde 10983 May 27 09:37 0°II25'24 10983 May 27 09:37 0°II25'24 10983 May 28 09:38 10977 Apr 15 03:46 0°V25'09 0°57'20 10983 May 11 09:55 28°V26'22 1°04'40 10983 May 11 09:55 10983 May 11 09	opposition	10976 Oct 10 01:56	28° Y 11′22	-1°02'38				
New Normal Set 10977 Mar 30 04:43 29°\Cap 27'19 max. Earth dist. 10983 May 11 17:13 26°\Beta 21'01 20.43059 AU	min. Earth dist.	10976 Oct 10 00:20	28° Y 11'32	18.01015 AU	conjunction	10983 May 11 09:21	26° 8 19'50	-0°58'42
10977 Apr 08 06:20 0°B morning rise 10983 May 27 03:40 27°B15'49 10983 Jul 26 09:37 0°T	direct				minimum elong	-		
Conjunction 10977 Apr 15 03:46 0°\825'09 0°\57'04 retrograde 10983 Aug 26 19:37 0°\\$\Pi\$ 20'\\$\Rightarrow{\Pi} 20'\\$\Rightarrow{\Pi}	evening set					,		20.43059 AU
conjunction 10977 Apr 15 03:46 0°\B25'09 -0°57'04 retrograde 10983 Aug 26 19:37 0°\II25'24 O°\II25'24 minimum elong 10977 Apr 15 03:46 0°\B25'09 0°57'20 10983 Sep 28 00:03 30°\B 30°\B max. Earth dist. 10977 Apr 15 04:58 0°\B25'20 20.04221 AU opposition 10983 Nov 11 00:55 28°\B26'22 -1°04'40 morning rise 10977 May 01 00:47 1°\B22'42 min. Earth dist. 10983 Nov 10 17:28 28°\B26'22 -1°04'40 retrograde 10977 Jul 31 12:04 4°\B36'32 direct 10984 Jan 27 03:01 26°\B26'06 opposition 10977 Oct 14 19:26 2°\B36'38 -1°04'04 evening set 10984 May 05 15:17 0°\II direct 10978 Apr 19 19:20 2°\B36'48 18.07451 AU 10984 May 05 15:17 0°\II evening set 10978 Apr 03 20:40 3°\B31'46 conjunction 10984 May 14 19:26 0°\II32'38 -0°57'49 conjunction 10978 Apr 19 19:01 4°\B49'17 -0°58'11 max. Earth dist. 10984 May 14 19:26 0°\II32'38 -0°58'20 minimum elong 10978 Apr 19 19:01 4°\B49'17 -0°58'30		10977 Apr 08 06:20	0°8		morning rise	-		
minimum elong max. Earth dist. 10977 Apr 15 03:46 0°825'09 0°57'20 10983 Sep 28 00:03 30°88 max. Earth dist. 10977 Apr 15 04:58 0°825'20 20.04221 AU opposition 10983 Nov 11 00:55 28°826'22 -1°04'40 morning rise 10977 May 01 00:47 1°822'42 min. Earth dist. 10983 Nov 10 17:28 28°827'07 18.46299 AU retrograde 10977 Jul 31 12:04 4°836'32 direct 10984 Apr 29 00:25 29°836'46 opposition 10977 Oct 14 21:01 2°836'38 -1°04'04 evening set 10984 May 05 15:17 0°¶ direct 10977 Dec 30 21:35 0°834'31 evening set 10978 Apr 03 20:40 3°851'46 conjunction minimum elong 10978 Apr 19 19:01 4°849'17 -0°58'11 max. Earth dist. 10984 May 14 19:26 0°¶ 32'38 0°58'20 conjunction 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 15 03:50 0°¶ 33'53 20.49481 AU morning rise 10978 May 05 15:26 5°846'32 opposition 10984 Nov 14 15:07 2°¶ 38'31 1-1°03'30 retrograde 10978 Aug 05 03:29 8°85'9'37 min. Earth dist. 10985 May 03 10:15 3°¶ 48'17 1-00'\$\frac{1}{2}\$ Min. Earth dist. 10978 Oct 19 15:17 6°\$\frac{1}{2}\$ S'95'1 1 18.13876 AU evening set 10985 May 03 10:15 3°¶ 48'17 1094'84 min. Earth dist. 10979 Jan 04 18:14 4°\$\frac{1}{2}\$ S'00' 11 18.13876 AU evening set 10985 May 03 10:15 3°¶ 48'17 1094'94 avening set 10995 May 03 10:15 3°\text{\		10055 1 15 00 16	001.40.5100	0055104				
max. Earth dist.	•	•			retrograde			
morning rise 10977 May 01 00:47 1°822'42 min. Earth dist. 10983 Nov 10 17:28 28°827'07 18.46299 AU retrograde 10977 Jul 31 12:04 4°836'32 direct 10984 Jan 27 03:01 26°826'06 opposition 10977 Oct 14 21:01 2°836'38 -1°04'04 evening set 10984 Apr 29 00:25 29°836'46 min. Earth dist. 10977 Oct 14 19:26 2°836'48 18.07451 AU 10984 May 05 15:17 0°II evening set 10977 Dec 30 21:35 0°834'31 evening set 10978 Apr 03 20:40 3°851'46 conjunction minimum elong 10984 May 14 19:26 0°II32'38 -0°57'49 minimum elong 10978 Apr 19 19:01 4°849'17 -0°58'11 max. Earth dist. 10984 May 14 19:26 0°II32'38 0°58'20 max. Earth dist. 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 30 13:36 1°II28'23 morning rise 10978 May 05 15:26 5°846'32 opposition 10984 Nov 14 15:07 2°II38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8°859'37 min. Earth dist. 10984 Nov 14 05:52 2°II39'28 18.52650 AU opposition 10978 Oct 19 15:17 6°859'51 -1°05'07 direct 10985 May 03 10:15 3°II48'17 direct 10979 Jan 04 18:14 4°858'00	_	•	_		*,*			1004140
retrograde 10977 Jul 31 12:04 4°836'32 direct 10984 Jan 27 03:01 26°826'06 opposition 10977 Oct 14 21:01 2°836'38 -1°04'04 evening set 10984 Apr 29 00:25 29°836'46 min. Earth dist. 10977 Oct 14 19:26 2°836'48 18.07451 AU 10984 May 05 15:17 0°¶ evening set 10977 Dec 30 21:35 0°834'31 evening set 10978 Apr 03 20:40 3°851'46 conjunction minimum elong 10978 Apr 19 19:01 4°849'17 -0°58'11 max. Earth dist. 10984 May 14 19:26 0°¶ 32'38 0°58'20 conjunction 10978 Apr 19 19:01 4°849'17 0°58'30 max. Earth dist. 10984 May 15 03:50 0°¶ 33'53 20.49481 AU minimum elong 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 30 13:36 1°¶ 28'23 max. Earth dist. 10978 May 05 15:26 5°846'32 opposition 10984 Nov 14 15:07 2°¶ 38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8°859'37 min. Earth dist. 10984 Nov 14 05:52 2°¶ 39'28 18.52650 AU opposition 10978 Oct 19 15:17 6°859'51 -1°05'07 direct 10985 May 03 10:15 3°¶ 48'17 direct 10979 Jan 04 18:14 4°858'00		-		20.04221 AU	* *			
opposition min. Earth dist. 10977 Oct 14 21:01 2°836'38 -1°04'04 evening set 10984 Apr 29 00:25 29°836'46 4 min. Earth dist. 10977 Oct 14 19:26 2°836'48 18.07451 AU 10984 May 05 15:17 0°II direct 10977 Dec 30 21:35 0°834'31 conjunction 10984 May 14 19:26 0°II 32'38 -0°57'49 evening set 10978 Apr 03 20:40 3°851'46 conjunction 10984 May 14 19:26 0°II 32'38 -0°57'49 conjunction 10978 Apr 19 19:01 4°849'17 -0°58'11 max. Earth dist. 10984 May 14 19:26 0°II 32'38 -0°57'49 max. Earth dist. 10978 Apr 19 19:01 4°849'17 -0°58'11 max. Earth dist. 10984 May 15 03:50 0°II 32'38 -0°57'49 max. Earth dist. 10978 Apr 19 19:01 4°849'17 -0°58'30 morning rise 10984 May 15 03:50 0°II 32'35 00'9II 32'38 0°58'20 morning rise 10978 May 05 15:26 5°846'32 opposition 10984 May 30 13:36 10'II 15:07 2°II 38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8°859'37 min. Earth dist. 10984 Nov 14 05:52 20'II 39'28 18.52650 AU opposition 10978 Oct 19 15:17 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>18.40299 AU</td>	•							18.40299 AU
min. Earth dist. 10977 Oct 14 19:26 2° 836'48 18.07451 AU direct 10977 Dec 30 21:35 0° 834'31 evening set 10978 Apr 03 20:40 3° 851'46 conjunction 10984 May 14 19:26 0° Д32'38 -0°57'49 minimum elong 10984 May 14 19:26 0° Д32'38 0°58'20 conjunction 10978 Apr 19 19:01 4° 849'17 -0°58'11 max. Earth dist. 10984 May 15 03:50 0° Д33'53 20.49481 AU minimum elong 10978 Apr 19 19:01 4° 849'17 0°58'30 morning rise 10984 May 30 13:36 1° Д28'23 max. Earth dist. 10978 Apr 19 21:18 4° 849'38 20.10656 AU retrograde 10984 May 30 07:48 4° Д37'23 morning rise 10978 May 05 15:26 5° 846'32 opposition 10984 Nov 14 15:07 2° Д38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8° 859'37 min. Earth dist. 10984 Nov 14 05:52 2° Д39'28 18.52650 AU opposition 10978 Oct 19 15:17 6° 859'51 -1°05'07 direct 10985 Jan 30 18:31 0° Д38'36 min. Earth dist. 10978 Oct 19 12:00 7° 800'11 18.13876 AU evening set 10985 May 03 10:15 3° Д48'17 direct 10979 Jan 04 18:14 4° 858'00	•			1°04'04				
direct 10977 Dec 30 21:35 0°834'31 evening set 10978 Apr 03 20:40 3°851'46 conjunction 10984 May 14 19:26 0° \$\Pi\32'38\ 0°57'49 \\ \text{minimum elong} \text{minimum elong} \text{10984 May 14 19:26} 0° \$\Pi\32'38\ 0°58'20 \\ \text{conjunction} \text{10978 Apr 19 19:01} 4°849'17 -0°58'11 \\ \text{minimum elong} \text{morning rise} \text{10984 May 15 03:50} 0° \$\Pi\33'53\ 20.49481 AU \\ \text{minimum elong} \text{morning rise} \text{10978 Apr 19 19:01} 4° \$\partial 49'17\ 0°58'30 \\ \text{morning rise} \text{morning rise} \text{10984 May 30 13:36} 1° \$\Pi\28'23 \\ \text{morning rise} \text{10978 May 05 15:26} 5° \$\partial 46'32 \\ \text{retrograde} \text{10978 May 05 15:26} 5° \$\partial 46'32 \\ \text{opposition} \text{min. Earth dist.} \text{10984 Nov 14 15:07} 2° \$\Pi\38'31 -1°03'30 \\ \text{retrograde} \text{0pposition} \text{10978 Aug 05 03:29} 8° \$\partial 59'51 -1°05'07 \\ \text{min. Earth dist.} \text{10985 May 03 10:15} 3° \$\Pi\48'17 \\ \text{direct} \text{10979 Jan 04 18:14} 4° \$\partial 58'800} \text{18.13876 AU} \text{evening set} \text{10985 May 03 10:15} 3° \$\Pi\48'17 \\ \text{direct} \text{10979 Jan 04 18:14} 4° \$\partial 58'800} \text{19.15.17} \text{60.15.17} \text{10.15.17} \text{10.15.15.17} \text{10.15.15.17} \text{10.15.15.17} \text{10.15.15.17} \text{10.15.15.17} \text{10.15.15.17} \text{10.15.15.15.15} \text{10.15.15.15} \text{10.15.15.15} \text{10.15.15.15} \text{10.15.15.15} \text{10.15.15.15} \text{10.15.15.15} \text{10.15.15} \text{10.15.15.15} \text{10.15.15} \text{10.15.15} \text{10.15.15} \text{10.15.15} \text{10.15.15} \text{10.15.15} 10	* *				evening set	=		
evening set 10978 Apr 03 20:40 3°\text{S1'46} conjunction 10984 May 14 19:26 0°\text{T32'38} -0°57'49 minimum elong 10984 May 14 19:26 0°\text{T32'38} 0°58'20 conjunction 10978 Apr 19 19:01 4°\text{S49'17} -0°58'11 max. Earth dist. 10984 May 15 03:50 0°\text{T33'53} 20.49481 AU minimum elong 10978 Apr 19 19:01 4°\text{S49'17} 0°58'30 morning rise 10984 May 30 13:36 1°\text{T28'23} max. Earth dist. 10978 Apr 19 21:18 4°\text{S49'38} 20.10656 AU retrograde 10984 Aug 30 07:48 4°\text{T37'23} morning rise 10978 May 05 15:26 5°\text{S46'32} opposition 10984 Nov 14 15:07 2°\text{T38'31} -1°03'30 retrograde 10978 Aug 05 03:29 8°\text{S59'37} min. Earth dist. 10984 Nov 14 05:52 2°\text{T39'28} 18.52650 AU opposition 10978 Oct 19 15:17 6°\text{S59'51} -1°05'07 direct 10985 Jan 30 18:31 0°\text{T38'36} min. Earth dist. 10978 Oct 19 12:00 7°\text{S00'11} 18.13876 AU evening set 10985 May 03 10:15 3°\text{T48'17} direct 10979 Jan 04 18:14 4°\text{S58'00}				10.07431710		10704 Willy 03 13.17	о д	
minimum elong 10978 Apr 19 19:01 4°849'17 -0°58'11 max. Earth dist. 10984 May 14 19:26 0° \$\Pi 32'38 0°58'20 \\ minimum elong 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 30 13:36 1° \$\Pi 28'23 \\ max. Earth dist. 10978 Apr 19 21:18 4°849'38 20.10656 AU retrograde 10984 Aug 30 07:48 4° \$\Pi 37'23 \\ morning rise 10978 May 05 15:26 5° \$\S46'32 \\ retrograde 10978 Aug 05 03:29 8° \$\S59'37 \\ min. Earth dist. 10978 Oct 19 15:17 6° \$\S59'51 -1°05'07 \\ min. Earth dist. 10978 Oct 19 12:00 7° \$\S40'11 18.13876 AU \\ direct 10979 Jan 04 18:14 4° \$\S58'00 \\ minimum elong max. Earth dist. 10984 May 14 19:26 0° \$\Pi 32'38 0°58'20 \\ morning rise 10984 May 15 03:50 0° \$\Pi 33'53 20.49481 AU \\ morning rise 10984 May 15 03:50 1° \$\Pi 32'36 1° \$\Pi 28'23 1° \\ morning rise 10984 Nov 14 15:07 2° \$\Pi 38'31 -1°03'30 1° \\ min. Earth dist. 10984 Nov 14 05:52 2° \$\Pi 39'28 18.52650 AU \\ min. Earth dist. 10985 Jan 30 18:31 0° \$\Pi 38'36 1° \\ min. Earth dist. 10978 Oct 19 12:00 7° \$\S00'11 18.13876 AU \\ min. Earth dist. 10978 May 03 10:15 3° \$\Pi 48'17 1° \\ min. Earth dist. 10979 Jan 04 18:14 4° \$\S58'00 1° 10 10 10 10 10 10 10 10 10 10 10 10 10					conjunction	10984 May 14 19:26	0°∏32'38	-0°57'49
conjunction 10978 Apr 19 19:01 4°849'17 0°58'11 max. Earth dist. 10984 May 15 03:50 0°\$\mathbb{I}33'53 20.49481 AU minimum elong 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 30 13:36 1°\$\mathbb{I}28'23 max. Earth dist. 10978 Apr 19 21:18 4°849'38 20.10656 AU retrograde 10984 Aug 30 07:48 4°\$\mathbb{I}37'23 morning rise 10978 May 05 15:26 5°\$\mathbb{I}46'32 opposition 10984 Nov 14 15:07 2°\$\mathbb{I}38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8°\$\mathbb{S}59'37 min. Earth dist. 10984 Nov 14 05:52 2°\$\mathbb{I}38'31 -1°03'30 opposition 10978 Oct 19 15:17 6°\$\mathbb{S}59'51 -1°05'07 direct 10985 Jan 30 18:31 0°\$\mathbb{I}38'36 min. Earth dist. 10978 Oct 19 12:00 7°\$\mathbb{O}0'11 18.13876 AU evening set 10985 May 03 10:15 3°\$\mathbb{I}48'17 direct 10979 Jan 04 18:14 4°\$\mathbb{S}58'00 4°\$\mathbb{S}58'00 4°\$\mathbb{S}58'00		r- 05 20.10				•		
minimum elong max. Earth dist. 10978 Apr 19 19:01 4°849'17 0°58'30 morning rise 10984 May 30 13:36 1°II28'23 max. Earth dist. 10978 Apr 19 21:18 4°849'38 20.10656 AU retrograde 10984 Aug 30 07:48 4°II37'23 morning rise 10978 May 05 15:26 5°846'32 opposition 10984 Nov 14 15:07 2°II38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8°859'37 min. Earth dist. 10984 Nov 14 05:52 2°II39'28 18.52650 AU opposition 10978 Oct 19 15:17 6°859'51 -1°05'07 direct 10985 Jan 30 18:31 0°II38'36 min. Earth dist. 10978 Oct 19 12:00 7°800'11 18.13876 AU evening set 10985 May 03 10:15 3°II48'17 direct 10979 Jan 04 18:14 4°858'00	conjunction	10978 Apr 19 19:01	4° 8 49'17	-0°58'11	Č	•		
max. Earth dist. 10978 Apr 19 21:18 4°849'38 20.10656 AU retrograde 10984 Aug 30 07:48 4°\$\pi 3723\$ morning rise 10978 May 05 15:26 5°\$\delta 46'32\$ opposition 10984 Nov 14 15:07 2°\$\pi 38'31\$ -1°03'30 retrograde 10978 Aug 05 03:29 8°\$\delta 59'37\$ min. Earth dist. 10984 Nov 14 05:52 2°\$\pi 39'28\$ 18.52650 AU opposition 10978 Oct 19 15:17 6°\$\delta 59'51\$ -1°05'07 direct 10985 Jan 30 18:31 0°\$\pi 38'36\$ min. Earth dist. 10978 Oct 19 12:00 7°\$\delta 00'11\$ 18.13876 AU evening set 10985 May 03 10:15 3°\$\pi 48'17\$ direct 10979 Jan 04 18:14 4°\$\delta 58'00\$	·	•				-		
morning rise 10978 May 05 15:26 5°846'32 opposition 10984 Nov 14 15:07 2°\$\pi 38'31 -1°03'30 retrograde 10978 Aug 05 03:29 8°\$\fo 59'37 min. Earth dist. 10984 Nov 14 05:52 2°\$\pi 39'28 18.52650 AU opposition 10978 Oct 19 15:17 6°\$\fo 59'51 -1°05'07 direct 10985 Jan 30 18:31 0°\$\pi 38'36 min. Earth dist. 10978 Oct 19 12:00 7°\$\fo 00'11 18.13876 AU evening set 10985 May 03 10:15 3°\$\pi 48'17 direct 10979 Jan 04 18:14 4°\$\fo 58'00 \end{array}	•	-			-	-		
opposition 10978 Oct 19 15:17 6°\mathbb{\mathbb{S}}5'\mathbb{5}1 -1\circ 05'\mathbb{0}7 \text{direct} \text{10985 Jan } 30 18:31 0\circ \pi	morning rise	-				_	2° ∏ 38'31	-1°03'30
min. Earth dist. 10978 Oct 19 12:00 7°♂00'11 18.13876 AU evening set 10985 May 03 10:15 3°耳48'17 direct 10979 Jan 04 18:14 4°♂58'00	retrograde	10978 Aug 05 03:29	8° 8 59'37		min. Earth dist.	10984 Nov 14 05:52	2° Ⅱ 39'28	18.52650 AU
direct 10979 Jan 04 18:14 4°\(258'00\)	opposition					10985 Jan 30 18:31		
	min. Earth dist.	10978 Oct 19 12:00		18.13876 AU	evening set	10985 May 03 10:15	3° Ⅱ 48'17	
evening set 10979 Apr 08 11:39 8° 8 14'07 conjunction 10985 May 19 04:58 4°\mathbf{\Pi}43'55 -0°56'38								
	evening set	10979 Apr 08 11:39	8° 8 14'07		conjunction	10985 May 19 04:58	4°Д43'55	-0°56'38

minimum elong	10985 May 19 04:58	4° ∏ 43'55	0°57'11		10992 Jan 24 03:55	30°R Ⅱ	
max. Earth dist.	10985 May 19 14:36		20.55741 AU	direct	10992 Mar 01 04:23	29° Ⅲ 27'43	
morning rise	10985 Jun 03 22:54	5° П 39'28	20.33711110	ancet	10992 Apr 06 04:13	0°95	
retrograde	10985 Sep 03 18:12	8° Ⅱ 47'54		evening set	10992 May 31 14:18	2° © 31'22	
opposition	10985 Nov 19 05:07	6° Ⅱ 49'13	-1°02'01				
min. Earth dist.	10985 Nov 18 20:15		18.58812 AU	conjunction	10992 Jun 16 08:03	3° 5 25'46	-0°40'58
direct	10986 Feb 04 07:08	4° Ⅱ 49'39		minimum elong	10992 Jun 16 08:03	3°\$25'46	0°41'36
evening set	10986 May 07 19:23	7° Ⅱ 58'22		max. Earth dist.	10992 Jun 16 19:30	3° 5 27'26	20.90451 AU
	•			morning rise	10992 Jul 02 02:28	4°9520'16	
conjunction	10986 May 23 13:43	8° Ⅱ 53'46	-0°55'10	retrograde	10992 Oct 02 12:04	7° 5 25'44	
minimum elong	10986 May 23 13:43	8° Ⅱ 53'46	0°55'44	opposition	10992 Dec 18 15:44	5° 5 27'35	-0°43'39
max. Earth dist.	10986 May 23 23:29	8° Ⅱ 55′12	20.61789 AU	min. Earth dist.	10992 Dec 18 03:40	5° © 28'48	18.92193 AU
morning rise	10986 Jun 08 07:36	9°Ⅱ49'07		direct	10993 Mar 05 14:08	3° 5 29'41	
retrograde	10986 Sep 08 05:31	12° Ⅲ 57′02		evening set	10993 Jun 04 19:38	6° © 32'38	
opposition	10986 Nov 23 18:27	10° Ⅱ 58'31	-1°00'13				
min. Earth dist.	10986 Nov 23 07:58		18.64724 AU	conjunction	10993 Jun 20 13:33	7° © 26'56	-0°37'51
direct	10987 Feb 08 20:53	8° Ⅱ 59'16		minimum elong	10993 Jun 20 13:33	7° 5 26'56	0°38'27
evening set	10987 May 12 03:55	12° Ⅱ 07′03		max. Earth dist.	10993 Jun 21 02:11		20.93815 AU
				morning rise	10993 Jul 06 08:05	8° 5 21'21	
conjunction	10987 May 27 22:05	13° Ⅲ 02'16		retrograde	10993 Oct 06 17:59	11° © 26'32	
minimum elong	10987 May 27 22:05			opposition	10993 Dec 23 01:37	9° © 28'23	
max. Earth dist.	10987 May 28 08:57		20.67546 AU	min. Earth dist.	10993 Dec 22 13:59		18.95390 AU
morning rise	10987 Jun 12 15:48	13° Ⅱ 57'25		direct	10994 Mar 09 22:24	7° © 30'38	
retrograde	10987 Sep 12 14:44	17° Ⅱ 04'51	0050105	evening set	10994 Jun 09 00:32	10° © 32'58	
opposition	10987 Nov 28 07:24	15° Ⅱ 06'29		. ,.	100041 24 10 27	110607110	002.4122
min. Earth dist.	10987 Nov 27 21:29		18.70324 AU	conjunction	10994 Jun 24 18:27	11°927'10	
direct	10988 Feb 13 08:41	13° Ⅲ 07'33 16° Ⅱ 14'26		minimum elong	10994 Jun 24 18:28	11°527'10	
evening set	10988 May 15 11:53	10°Щ14′20		max. Earth dist.	10994 Jun 25 06:48 10994 Jul 10 13:25	11°928'37 12°921'30	20.96858 AU
conjunction	10988 May 31 05:49	17° ∏ 09'27	0051125	morning rise retrograde	10994 Jul 10 13.23 10994 Oct 11 02:54	12 3 21 30	
minimum elong	10988 May 31 05:49	17 П 0927 17° П 09'27	0°52'00	opposition	10994 Oct 11 02.34 10994 Dec 27 11:01	13°\$28'20	0°36'20
max. Earth dist.	10988 May 31 16:23		20.72971 AU	min. Earth dist.	10994 Dec 26 22:11		18.98275 AU
morning rise	10988 Jun 15 23:39	17 Ⅱ 11 00 18° Ⅱ 04'27	20.72971 AU	direct	10994 Dec 20 22:11 10995 Mar 14 06:49	11°530'43	16.96273 AO
retrograde	10988 Sep 16 01:31	21° I I11'26		evening set	10995 Jun 13 05:10	14°932'30	
opposition	10988 Dec 01 19:39	19° Ⅱ 13'10	-0°55'43	evening set	10))3 Juli 13 03.10	14 32 30	
min. Earth dist.	10988 Dec 01 08:26		18.75551 AU	conjunction	10995 Jun 28 23:21	15° © 26'38	-0°31'05
direct	10989 Feb 16 20:45	17° Ⅱ 14'30	10.70001110	minimum elong	10995 Jun 28 23:21	15° © 26'38	
evening set	10989 May 19 19:19	20° Ⅲ 20′32		max. Earth dist.	10995 Jun 29 12:54	15° © 28'35	20.99577 AU
<i>8</i>	,			morning rise	10995 Jul 14 18:32	16°9520'56	
conjunction	10989 Jun 04 13:10	21° Ⅱ 15′22	-0°49'09	retrograde	10995 Oct 15 08:47	19° © 25'45	
minimum elong	10989 Jun 04 13:10	21° Ⅱ 15′22	0°49'45	opposition	10995 Dec 31 20:01	17° © 27'37	-0°32'25
max. Earth dist.	10989 Jun 05 00:36	21° Ⅱ 17′02	20.77980 AU	min. Earth dist.	10995 Dec 31 07:37	17° 5 28'51	19.00834 AU
morning rise	10989 Jun 20 06:57	22° Ⅱ 10′13		direct	10996 Mar 17 13:51	15° © 30'10	
retrograde	10989 Sep 20 09:32	25° Ⅱ 16'46		evening set	10996 Jun 16 09:36	18° © 31'28	
opposition	10989 Dec 06 07:31	23° Ⅱ 18′36	-0°53'04				
min. Earth dist.	10989 Dec 05 21:02	23° Ⅱ 19′39	18.80347 AU	conjunction	10996 Jul 02 03:57	19° © 25'32	-0°27'29
direct	10990 Feb 21 07:42	21° Ⅱ 20′11		minimum elong	10996 Jul 02 03:57	19° © 25'32	0°28'06
evening set	10990 May 24 02:17	24° Ⅱ 25'22		max. Earth dist.	10996 Jul 02 16:56		21.01978 AU
		_		morning rise	10996 Jul 17 23:39	20° © 19'47	
conjunction	10990 Jun 08 19:58	25° Ⅲ 20'03		retrograde	10996 Oct 18 17:09	23° © 24'31	
minimum elong	10990 Jun 08 19:59	25° Ⅱ 20'03		opposition	10997 Jan 04 04:41	21°526'24	
max. Earth dist.	10990 Jun 09 06:52		20.82568 AU	min. Earth dist.	10997 Jan 03 15:22		19.03058 AU
morning rise	10990 Jun 24 13:58	26° Ⅱ 14'46		direct	10997 Mar 21 20:52	19°529'05	
retrograde	10990 Sep 24 19:45	29° Ⅲ 20'56 27° Ⅲ 22'47	0950110	evening set	10997 Jun 20 13:48	22° © 29'59	
opposition min. Earth dist.	10990 Dec 10 18:49 10990 Dec 10 07:10		18.84711 AU	aaniumatian	10007 Iul 06 00:20	220@24101	0022145
direct	10990 Dec 10 07.10 10991 Feb 25 18:40	27 Ⅲ 23 37 25° Ⅲ 24'34	16.64/11 AU	conjunction minimum elong	10997 Jul 06 08:29 10997 Jul 06 08:29	23°524'01 23°524'01	
evening set	10991 May 28 08:28	28° I I28'58		max. Earth dist.	10997 Jul 06 08:29		21.04013 AU
ovening set	10771 Way 20 00.20	20 112030		morning rise	10997 Jul 00 22:30 10997 Jul 22 04:28	23 3 2002 24° 5 18'15	21.04013 AU
conjunction	10991 Jun 13 02:15	29° Ⅲ 23'30	-0°43'55	retrograde	10997 Oct 22 23:36	27°\$22'57	
minimum elong	10991 Jun 13 02:15	29° I I23'30		opposition	10997 Oct 22 23:30 10998 Jan 08 13:14	25°\$24'50	-0°24'10
max. Earth dist.	10991 Jun 13 14:09		20.86710 AU	min. Earth dist.	10998 Jan 08 00:25		19.04903 AU
Law dist.	10991 Jun 23 13:49	0°95	, 10 110	direct	10998 Mar 26 03:14	23°S27'42	2.2.2.2.2.110
morning rise	10991 Jun 28 20:19	0°5518'06		evening set	10998 Jun 24 18:03	26°\$28'14	
retrograde	10991 Sep 29 02:39	3°\$23'54		<i>5</i>			
opposition	10991 Dec 15 05:41	1° © 25'46	-0°47'01	conjunction	10998 Jul 10 12:56	27° © 22'15	-0°19'56
min. Earth dist.	10991 Dec 14 18:42		18.88643 AU	minimum elong	10998 Jul 10 12:56	27° © 22'15	
				_			

28°916'29

1°**Ω**21'12

27°926'05

0°**Ω**26'21

2° Ω 14'37

5°**Ω**19'22

1°**Ω**24'24

4°Ω24'26

5°**Ω**18′27

5°**Ω**17'52

5°**Ω**19'03

6°**Ω**12'45

9°Ω17'37

5°**Ω**22'42

8°**£**22'35

9°**Ω**15′50

9°**Ω**17′26

10°**Ω**10′58

13°**Ω**15'59

9°**Ω**21'05

12°**Q**20′51

13°Ω14'03

13°Ω15'51

14°Ω09'20

17°**Ω**14'32

15°Ω

15°RΩ

15°€

13°**Ω**19'31

15°**Ω**46'46

16°**Ω**19'15

17°**Ω**13′24

17°**Ω**12'30

17°**Ω**14'18

18°**Ω**07'52

17°**Ω**15'08 21.06743 AU

evening set

conjunction

minimum elong

0° Ω

 $0^{\circ}\Omega$

30°R55

10998 Jul 11 02:13

10998 Jul 26 09:30

10998 Aug 29 10:48 10998 Oct 27 07:42

10998 Dec 28 05:07

10999 Jan 12 21:31

10999 Jan 12 08:04

10999 Mar 30 09:28

10999 Jun 20 22:54

10999 Jun 28 22:09

10999 Jul 14 17:29

10999 Jul 14 17:29

10999 Jul 15 07:33

10999 Jul 30 14:26

10999 Oct 31 14:35

11000 Jan 17 05:44

11000 Jan 16 17:01

11000 Apr 03 15:08

11000 Jul 03 02:33

11000 Jul 18 22:09

11000 Jul 18 22:09

11000 Jul 18 17:53

11000 Jul 19 02:26

11000 Jul 19 11:04

11000 Aug 03 19:43

11000 Nov 04 23:00

11001 Jan 21 13:38

11001 Jan 21 00:46

11001 Apr 07 21:14

11001 Jul 07 06:59

11001 Jul 23 03:05

11001 Jul 23 03:04

11001 Jul 22 21:18

11001 Jul 23 08:50

11001 Jul 23 16:27

11001 Aug 08 01:01

11001 Nov 09 06:01

11002 Jan 25 21:44

11002 Jan 25 09:47

11002 Apr 12 02:29

11002 Jul 11 11:33

11002 Jul 27 07:59

11002 Jul 27 07:59

11002 Jul 27 01:31

11002 Jul 27 14:27

11002 Jul 27 19:58

11002 Aug 12 06:39

11002 Aug 27 22:09

11002 Nov 13 15:02

11003 Jan 30 05:46

11003 Jan 29 17:56

11003 Feb 06 01:16

11003 Apr 16 08:53

11003 Jun 20 09:15

11003 Jul 05 18:57

11003 Jul 15 16:19

11003 Jul 31 13:22

11003 Jul 31 13:22

11003 Jul 31 06:51

11003 Jul 31 19:53

11003 Aug 01 01:36

11003 Aug 16 12:30

max. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

behind sun end

max Earth dist

min. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

behind sun end

max. Earth dist.

morning rise

retrograde

opposition min. Earth dist.

evening set

conjunction

minimum elong

behind sun end

max. Earth dist.

morning rise

retrograde

opposition

direct

asc. node

evening set

conjunction

minimum elong

behind sun begin

behind sun end

max. Earth dist.

morning rise

min. Earth dist.

behind sun begin

direct

behind sun begin

direct

behind sun begin

direct

min. Earth dist.

direct

min. Earth dist.

11009 Aug 08 01:45

11009 Aug 24 02:13

11009 Aug 24 02:13

10° Mp 15'46

11° **m** 10'37

11° Mp 10'37

0°24'13

max. Earth dist.	11009 Aug 24 11:39	11° m)11'58	20.91569 AU	min. Earth dist.	11016 Mar 23 18:19	7° ≏ 50'12	18.61261 AU
morning rise	11009 Sep 09 05:14	12° m 05'53		direct	11016 Jun 06 22:43	5° ≏ 51'22	
retrograde	11009 Dec 12 03:05	15° Mp 13'25		evening set	11016 Sep 05 17:21	8° ჲ 56′23	
opposition	11010 Feb 27 13:20	13° m 13'58	0°29'08				
min. Earth dist.	11010 Feb 27 05:07	•	18.89729 AU	conjunction	11016 Sep 21 22:28	9° £ 52'47	0°47'28
direct	11010 May 14 02:10	11°Mp 16'27		minimum elong	11016 Sep 21 22:27	9° ≏ 52'47	0°47'32
evening set	11010 Aug 12 08:42	14° m 17'33		max. Earth dist.	11016 Sep 22 00:35		20.58287 AU
				morning rise	11016 Oct 08 06:22	10° ≏ 49'36	
conjunction	11010 Aug 28 09:43	15° Mp 12'35	0°28'13	retrograde	11017 Jan 10 16:24	14° ≏ 01'40	
minimum elong	11010 Aug 28 09:43	15° m 12'35	0°27'59	opposition	11017 Mar 28 08:38	12° △ 01'03	0°54'01
max. Earth dist.	11010 Aug 28 17:39	•	20.87811 AU	min. Earth dist.	11017 Mar 28 06:42		18.55235 AU
morning rise	11010 Sep 13 13:35	16° Mp 08'01		direct	11017 Jun 11 08:18	10° Ω 02'16	
retrograde	11010 Dec 16 14:35	19° Mp 16'07	0000110	evening set	11017 Sep 10 05:25	13° ჲ 08'05	
opposition	11011 Mar 03 21:51	17° Mp 16'30	0°33'13		11017.0 26.11.26	1.40.00.0414.6	0040150
min. Earth dist.	11011 Mar 03 14:08	-	18.85821 AU	conjunction	11017 Sep 26 11:26	14° Ω 04'46	0°49'58
direct	11011 May 18 08:19	15°Mp18'51		minimum elong max. Earth dist.	11017 Sep 26 11:26	14° £ 04'46 14° £ 05'04	0°50'04 20.52091 AU
evening set	11011 Aug 16 16:17	18° Mp 20'28		morning rise	11017 Sep 26 13:29 11017 Oct 12 19:50	14 ≥ 03 04 15° ⊆ 01'49	20.32091 AU
conjunction	11011 Sep 01 18:06	19° m) 15'42	0°31'50	retrograde	11017 Oct 12 19:30 11018 Jan 15 06:29	13 2 01 49 18° 2 14'35	
minimum elong	11011 Sep 01 18:06	19° m) 15'42	0°31'40	opposition	11018 Apr 01 19:56	16° ⊆ 14'33	0°56'41
max. Earth dist.	11011 Sep 01 18:00	•	20.83742 AU	min. Earth dist.	11018 Apr 01 19:36		18.48888 AU
morning rise	11011 Sep 02 02:23	20° Mg 11'20	20.83742 AU	direct	11018 Jun 15 19:09	10 ≅ 1331 14° £ 14'36	16.46666 AU
retrograde	11011 Sep 17 22:30 11011 Dec 21 00:44	23° m) 20'00		evening set	11018 Sep 14 18:21	17° £ 21'16	
opposition	11011 Dec 21 00:44 11012 Mar 07 06:31	21° mp 20'16	0°37'10	evening set	11010 Бер 14 10.21	17 =2110	
min. Earth dist.	11012 Mar 06 23:27	-	18.81594 AU	conjunction	11018 Oct 01 00:57	18° ≏ 18'12	0°52'13
direct	11012 May 21 14:37	19° m) 22'30	10.0103.110	minimum elong	11018 Oct 01 00:57	18° £ 18'12	
evening set	11012 Aug 20 00:38	22° m) 24'41		max. Earth dist.	11018 Oct 01 00:45		20.45624 AU
				morning rise	11018 Oct 17 10:12	19° £ 15'32	
conjunction	11012 Sep 05 02:59	23° m/20'07	0°35'19	retrograde	11019 Jan 19 20:03	22° ჲ 29'00	
minimum elong	11012 Sep 05 02:59	23° m) 20'07	0°35'11	opposition	11019 Apr 06 07:44	20° ≏ 27'51	0°59'03
max. Earth dist.	11012 Sep 05 09:31	23° m/21'03	20.79368 AU	min. Earth dist.	11019 Apr 06 07:55	20° ≏ 27'50	18.42315 AU
morning rise	11012 Sep 21 08:13	24° m 15'58		direct	11019 Jun 20 05:33	18° ≏ 28'22	
retrograde	11012 Dec 24 13:28	27° m/25'17		evening set	11019 Sep 19 08:01	21° ≏ 35'56	
opposition	11013 Mar 11 15:43	25° m 25'24	0°40'57				
min. Earth dist.	11013 Mar 11 09:28	25° Mp 26'02	18.77060 AU	conjunction	11019 Oct 05 15:30	22° ₽ 33'09	0°54'12
direct	11013 May 25 21:55	23° m 27'30		minimum elong	11019 Oct 05 15:30	22° ₽ 33'09	0°54'23
evening set	11013 Aug 24 09:27	26°M 30'19		max. Earth dist.	11019 Oct 05 15:24	22° ჲ 33'08	20.38955 AU
				morning rise	11019 Oct 22 01:11	23° ≏ 30'44	
conjunction	11013 Sep 09 12:37	27° m 25'59	0°38'39	retrograde	11020 Jan 24 11:20	26° ≏ 44'55	
minimum elong	11013 Sep 09 12:36	27° m 25'59	0°38'33	opposition	11020 Apr 09 19:49	24° ≏ 43'29	1°01'06
max. Earth dist.	11013 Sep 09 19:24		20.74658 AU	min. Earth dist.	11020 Apr 09 20:19	24° ≏ 43'26	18.35573 AU
morning rise	11013 Sep 25 18:21	28° Mp 22'03		direct	11020 Jun 23 17:52	22° ≏ 43'39	
	11013 Oct 27 06:09	0∘ ⊽		evening set	11020 Sep 22 22:38	25° ≏ 52'08	
retrograde	11013 Dec 29 00:53	1° Ω 32'02					
	11014 Mar 04 13:39	30°R, Mp		conjunction	11020 Oct 09 06:38	26° Ω 49'39	0°55'53
opposition	11014 Mar 16 01:19	29° m/32'01	0°44'33	minimum elong	11020 Oct 09 06:38	26° Ω 49'39	0°56'06
min. Earth dist.	11014 Mar 15 19:48	•	18.72171 AU	max. Earth dist.	11020 Oct 09 04:28		20.32167 AU
direct	11014 May 30 05:10	27° m 33'58		morning rise	11020 Oct 25 17:05	27° Ω 47'31	
avanina ast	11014 Aug 17 12:22	0° ჲ 0° ჲ 37'28		ratrograda	11020 Dec 08 18:02	0°ጤ 1°ጤ02'25	
evening set	11014 Aug 28 19:21	0-223/28		retrograde	11021 Jan 28 01:57	30°R Ω	
conjunction	11014 Sep 13 23:04	1° ჲ 33'22	0°41'47	opposition	11021 Mar 20 18:42 11021 Apr 14 08:38	30° ₹ 32 29° £ 00'43	1°02'50
minimum elong	11014 Sep 13 23:04 11014 Sep 13 23:03		0°41'45	min. Earth dist.	11021 Apr 14 10:32		18.28763 AU
max. Earth dist.	11014 Sep 13 23:03		20.69592 AU	direct	11021 Jun 28 05:01	27° ⊆ 00'30	10.20703710
morning rise	11014 Sep 30 05:39	2° £ 29'41	20.07372710	direct	11021 Sep 24 16:35	0° ™	
retrograde	11015 Jan 02 14:21	5° Ω 40'21		evening set	11021 Sep 27 13:46	0°M09'57	
opposition	11015 Mar 20 11:17	3° Ω 40'10	0°47'56		. ~-r =/ 15.10		
min. Earth dist.	11015 Mar 20 07:04		18.66921 AU	conjunction	11021 Oct 13 22:39	1° M 07'45	0°57'15
direct	11015 Jun 03 13:39	1° ≏ 41'55	-	minimum elong	11021 Oct 13 22:39	1° M 07'45	
evening set	11015 Sep 02 05:56	4° Ω 46'10		max. Earth dist.	11021 Oct 13 20:48		20.25336 AU
Č				morning rise	11021 Oct 30 09:33	2°M05'54	
conjunction	11015 Sep 18 10:31	5° ≏ 42'19	0°44'44	retrograde	11022 Feb 01 18:51	5°M21'32	
minimum elong	11015 Sep 18 10:31	5° ≏ 42'19	0°44'44	opposition	11022 Apr 18 21:53	3° ™ 19'35	1°04'12
max. Earth dist.	11015 Sep 18 15:01	5° ≏ 42'58	20.64134 AU	min. Earth dist.	11022 Apr 18 23:45		18.21927 AU
morning rise	11015 Oct 04 17:36	6° ჲ 38'52		direct	11022 Jul 02 18:32	1° M 19'01	
retrograde	11016 Jan 07 03:03	9° ჲ 50'14		evening set	11022 Oct 02 06:09	4° ™ 29'29	
opposition	11016 Mar 23 21:43	7° ≏ 49'51	0°51'06				

				(),		- · · · - · · · · · · · · · · · · · · ·	
conjunction	11022 Oct 18 15:33	5°M27'35	0°58'19	minimum elong	11028 Nov 14 16:44	2° ∡ 07'19	0°57'59
minimum elong	11022 Oct 18 15:33	5°M27'35	0°58'37	max. Earth dist.	11028 Nov 14 07:55	2° х 05′59	19.79852 AU
max. Earth dist.	11022 Oct 18 11:44	5°M27'01	20.18514 AU	morning rise	11028 Dec 01 06:47	3° ∡ ¹07'25	
morning rise	11022 Nov 04 03:09	6°M26'01		retrograde	11029 Mar 05 10:17	6° ∡ 128′09	
retrograde	11023 Feb 06 11:01	9°M42'23		opposition	11029 May 19 12:53	4° ∡ °25′13	1°03'13
opposition	11023 Apr 23 11:42	7°M40'12	1°05'14	min. Earth dist.	11029 May 19 20:57	4° ∡ °24'21	17.76845 AU
min. Earth dist.	11023 Apr 23 15:04	7°M39'51	18.15141 AU	direct	11029 Aug 02 04:39	2° ∡ °22'29	
direct	11023 Jul 07 06:45	5° M ₃39'17		evening set	11029 Nov 03 02:32	5° ∡ ¹40'47	
evening set	11023 Oct 06 23:15	8°M50'48					
				conjunction	11029 Nov 19 16:08	6° ∡ ¹40'59	0°56'02
conjunction	11023 Oct 23 09:30	9° M 49′12	0°59'03	minimum elong	11029 Nov 19 16:08	6° х 40′59	0°56'35
minimum elong	11023 Oct 23 09:30	9° M 49′12		max. Earth dist.	11029 Nov 19 06:33	6° ∡ ³39'31	19.73834 AU
max. Earth dist.	11023 Oct 23 05:54	9° ™ 48'40	20.11763 AU	morning rise	11029 Dec 06 06:28	7° ∡ 741'20	
morning rise	11023 Nov 08 21:28	10° M 47'55		retrograde	11030 Mar 10 10:09	11° ∡ *02'40	
retrograde	11024 Feb 11 05:43	14°ML05'01		opposition	11030 May 24 07:26	8° ⋌ ¹59'37 –	
opposition	11024 Apr 27 02:08	12°M02'40	1°05'52	min. Earth dist.	11030 May 24 15:24		17.70889 AU
min. Earth dist.	11024 Apr 27 05:15		18.08435 AU	direct	11030 Aug 07 00:59	6° ₹ ¹56'33	
direct	11024 Jul 10 21:24	10°M01'25		evening set	11030 Nov 08 02:24	10° ∡ 15'57	
evening set	11024 Oct 10 17:19	13° M .14'01			1102037 24 16 24	110 71001	007446
	110040 / 07 04 00	1.40 M 1.0140	0050106	conjunction	11030 Nov 24 16:24	11° 🗷 16'24	
conjunction	11024 Oct 27 04:02	14°M12'43	0°59'26	minimum elong	11030 Nov 24 16:24	11° х 16'24	
minimum elong	11024 Oct 27 04:02	14°M12'43	0°59'50	max. Earth dist.	11030 Nov 24 05:39		19.67952 AU
max. Earth dist.	11024 Oct 26 22:42		20.05115 AU	morning rise	11030 Dec 11 06:55	12° х 17'00	
	11024 Nov 09 08:51	15°M		retrograde	11031 Mar 15 07:00	15° ₹ 38'53	0050120
morning rise	11024 Nov 12 16:37	15°M11'43		opposition	11031 May 29 02:37	13° х 35'42	
retrograde	11025 Feb 14 23:32	18°M29'35	1°06'08	min. Earth dist.	11031 May 29 12:21	13° x '34'39 11° x '32'18	17.65107 AU
opposition min. Earth dist.	11025 May 01 17:24	16°M27'04	18.01860 AU	direct evening set	11031 Aug 11 19:07 11031 Nov 13 02:56	11° x ' 32'18 14° x ' 52'44	
min. Earm dist.	11025 May 01 22:01 11025 Jun 08 16:26	10 1162033 15°RM	18.01800 AU	evening set	11031 NOV 13 02.30	14 X ·32 44	
direct	11025 Jul 15 10:56	14°ML25'31		conjunction	11031 Nov 29 17:18	15° ∡ '53'27	0°52'08
direct	11025 Aug 20 14:41	14 IIG25 51 15°M		minimum elong	11031 Nov 29 17:18	15° x 53'27	
evening set	11025 Aug 20 14:41 11025 Oct 15 12:18	17°M39'15		max. Earth dist.	11031 Nov 29 05:34		19.62293 AU
evening set	11025 001 15 12.10	17 1103713		morning rise	11031 Dec 16 08:01	16° × 51'37	17.02273710
conjunction	11025 Oct 31 23:48	18°MJ38'15	0°59'28	retrograde	11032 Mar 19 07:11	20°×716'40	
minimum elong	11025 Oct 31 23:48	18°MJ38'15	0°59'54	opposition	11032 Jun 01 22:21	18° × 13'20	0°56'47
max. Earth dist.	11025 Oct 31 18:37		19.98614 AU	min. Earth dist.	11032 Jun 02 07:51		17.59577 AU
morning rise	11025 Nov 17 12:45	19°M37'32		direct	11032 Aug 15 17:24	16° х 09'36	
retrograde	11026 Feb 19 20:10	22°M56'09		evening set	11032 Nov 17 03:59	19° ∡ ³31′02	
opposition	11026 May 06 09:05	20°M53'31	1°06'01	C			
min. Earth dist.	11026 May 06 13:30		17.95425 AU	conjunction	11032 Dec 03 18:41	20° ∡ °32′00	0°49'39
direct	11026 Jul 20 03:13	18°M51'40		minimum elong	11032 Dec 03 18:41	20° ∡ ³32′00	0°50'15
evening set	11026 Oct 20 08:29	22°M06'33		max. Earth dist.	11032 Dec 03 06:40	20° х ³30′09	19.56907 AU
				morning rise	11032 Dec 20 09:24	21° ₹ ³33′00	
conjunction	11026 Nov 05 20:28	23°M05'52	0°59'09	retrograde	11033 Mar 24 04:21	24° ₹ ′55'51	
minimum elong	11026 Nov 05 20:27	23°M05'52	0°59'38	opposition	11033 Jun 06 18:45	22° ₹ 52'24	0°53'51
max. Earth dist.	11026 Nov 05 13:34	23°MJ04'50	19.92244 AU	min. Earth dist.	11033 Jun 07 05:36	22° х 51′13	17.54360 AU
morning rise	11026 Nov 22 09:55	24°M05'26		direct	11033 Aug 20 13:31	20° ∡ ¹48'19	
retrograde	11027 Feb 24 15:27	27° M 24'47		evening set	11033 Nov 22 05:49	24° ∡ 10'44	
opposition	11027 May 11 01:42	25°M22'03	1°05'29				
min. Earth dist.	11027 May 11 07:57		17.89122 AU	conjunction	11033 Dec 08 20:44	25° ∡ 11'54	
direct	11027 Jul 24 18:00	23°M19'55		minimum elong	11033 Dec 08 20:44	25° ∡ 11'54	0°47'28
evening set	11027 Oct 25 05:33	26°M35'58		max. Earth dist.	11033 Dec 08 07:38	25° ₹ '09'52	19.51884 AU
				morning rise	11033 Dec 25 11:36	26° ₹ 13'05	
conjunction	11027 Nov 10 18:10	27°M35'35	0°58'29	retrograde	11034 Mar 29 04:39	29° ⋌ 36'19	
minimum elong	11027 Nov 10 18:10	27°M35'35	0°58'59	opposition	11034 Jun 11 15:24	27° ⋌ ³32'46	
max. Earth dist.	11027 Nov 10 10:56	27°M34'29	19.85998 AU	min. Earth dist.	11034 Jun 12 02:01		17.49539 AU
morning rise	11027 Nov 27 07:53	28°M35'24		direct	11034 Aug 25 13:28	25° ₹ 28'20	
	11027 Dec 22 16:48	0° ₹ ¹		evening set	11034 Nov 27 08:15	28° ∡ ′51'40	
retrograde	11028 Feb 29 14:02	1° ∡ 755'28			110245 12 22 24	200 752102	0042141
:	11028 May 11 22:18	30°RM	1904122	conjunction	11034 Dec 13 23:26	29° 🗷 53'03	0°43'41
opposition	11028 May 14 18:49	29°M52'39	1°04'33	minimum elong	11034 Dec 13 23:26	29° 🗷 53'03	0°44'19
min. Earth dist.	11028 May 15 01:00		17.82928 AU	max. Earth dist.	11034 Dec 13 10:41	29°メ51'04 0°る	19.47270 AU
direct	11028 Jul 28 12:23	27° ™ 50'14 0° ৴		morning rise	11034 Dec 15 20:20	0°る 0°る54'23	
evening set	11028 Oct 09 07:14 11028 Oct 29 03:42	0° x ¹ 1° x ¹07'25		morning rise retrograde	11034 Dec 30 14:06 11035 Apr 03 02:49	0°554°23 4° 5 17'57	
evening set	11020 001 29 03.42	1 X:0/23		opposition	11035 Apr 03 02:49 11035 Jun 16 12:49	2°る1/3/	0°46'53
conjunction	11028 Nov 14 16:44	2° ∡ '07'19	0°57'26	opposition min. Earth dist.	11035 Jun 16 12:49 11035 Jun 17 00:18		17.45158 AU
conjunction	11020 INOV 14 10.44	∠ × U/ 19	0 3120	mm. Bartii uist.	11055 Juli 1/ 00.18	2 C 13 03	17.7J1J0 AU

•			C	· //			C
max. Earth dist.	11047 Feb 10 10:55	27°≈01'42	19.34099 AU	retrograde	11053 Jun 27 02:06	29°) 39′02	
morning rise	11047 Feb 27 07:38	28° ≈ 04'49		opposition	11053 Sep 09 08:46	27°) (37'24	-0°42'49
C	11047 Apr 02 21:12	0°) €		min. Earth dist.	11053 Sep 09 12:51	27° ¥ 36′58	17.58111 AU
retrograde	11047 May 30 12:10	1°) €27'48		direct	11053 Nov 24 20:33	25°) 32'47	
· ·	11047 Jul 29 19:57	30°R≈		evening set	11054 Feb 27 21:50	28°) 57'49	
opposition	11047 Aug 12 09:50	29° ≈ 25'04	-0°13'51	Č			
min. Earth dist.	11047 Aug 12 19:05	29° ≈ 24'03	17.35133 AU	conjunction	11054 Mar 16 03:07	29° ¥ 57'50	-0°40'18
direct	11047 Oct 27 09:59	27°≈19′23		minimum elong	11054 Mar 16 03:07	29° ¥ 57'50	0°40'14
	11048 Jan 17 07:22	0°) €		max. Earth dist.	11054 Mar 15 23:03	29°) 57'12	19.60822 AU
evening set	11048 Jan 30 15:02	0°) 47'35			11054 Mar 16 17:04	0° Y	
•				morning rise	11054 Apr 01 05:32	0° Y 57'27	
conjunction	11048 Feb 16 01:35	1°) 49'02	-0°14'55	retrograde	11054 Jul 01 22:04	4°Υ16'25	
minimum elong	11048 Feb 16 01:34	1°) 49'02	0°14'35	opposition	11054 Sep 14 07:37	2° Y 15'03	-0°46'45
behind sun begin	11048 Feb 15 22:46	1°) 48′36		min. Earth dist.	11054 Sep 14 11:15	2° Y 14'40	17.63614 AU
behind sun end	11048 Feb 16 04:23	1°) 49′28		direct	11054 Nov 29 20:28	0° Y 10'46	
max. Earth dist.	11048 Feb 15 14:50	1°) 47'22	19.36290 AU	evening set	11055 Mar 04 20:24	3° Y 35'01	
morning rise	11048 Mar 03 09:24	2°) 50′06					
retrograde	11048 Jun 03 10:16	6°) 12'37		conjunction	11055 Mar 21 00:34	4° Y '34'43	-0°43'41
opposition	11048 Aug 16 10:20	4°) 10′00	-0°19'11	minimum elong	11055 Mar 21 00:34	4° Y '34'43	0°43'41
min. Earth dist.	11048 Aug 16 19:56	4°) €08'57	17.37595 AU	max. Earth dist.	11055 Mar 20 20:25	4° Y 34'05	19.66486 AU
direct	11048 Oct 31 12:16	2°) €04'22		morning rise	11055 Apr 06 02:14	5° Y 34'03	
evening set	11049 Feb 03 17:49	5°) 32'15		retrograde	11055 Jul 06 18:24	8° Y 52'22	
C				opposition	11055 Sep 19 06:00	6° Ƴ 51'14	-0°50'21
conjunction	11049 Feb 20 03:30	6°) 33′30	-0°19'37	min. Earth dist.	11055 Sep 19 08:32	6° Ƴ 50'58	17.69428 AU
minimum elong	11049 Feb 20 03:29	6°) 33′30	0°19'19	direct	11055 Dec 04 21:01	4° Ƴ 47'16	
max. Earth dist.	11049 Feb 19 16:57	6°) 31′51	19.39028 AU	evening set	11056 Mar 08 18:03	8° Y 10'39	
morning rise	11049 Mar 08 10:36	7°) 34′22		C			
retrograde	11049 Jun 08 10:04	10°) 56′22		conjunction	11056 Mar 24 21:27	9° Y 10'04	-0°46'47
opposition	11049 Aug 21 10:31	8°) 53′52	-0°24'21	minimum elong	11056 Mar 24 21:27	9° Y 10'04	0°46'49
min. Earth dist.	11049 Aug 21 18:20	8°) 53′01	17.40603 AU	max. Earth dist.	11056 Mar 24 19:15	9° Y '09'43	19.72417 AU
direct	11049 Nov 05 16:06	6°) 48′20		morning rise	11056 Apr 09 22:07	10° Y ′09′05	
evening set	11050 Feb 08 20:03	10°) 15'48		retrograde	11056 Jul 10 13:09	13° Y 26'41	
•				opposition	11056 Sep 23 03:52	11° Y 25'48	-0°53'37
conjunction	11050 Feb 25 04:58	11°) 16′50	-0°24'10	min. Earth dist.	11056 Sep 23 05:44	11° Y 25'36	17.75459 AU
minimum elong	11050 Feb 25 04:57	11°) 16′50	0°23'56	direct	11056 Dec 08 21:07	9° Y 22'09	
max. Earth dist.	11050 Feb 24 20:17	11°) (15′29	19.42310 AU	evening set	11057 Mar 13 14:59	12° Y '44'38	
morning rise	11050 Mar 13 10:59	12° 升 17′28					
retrograde	11050 Jun 13 07:24	15°) 38′55		conjunction	11057 Mar 29 17:21	13° Y 43'43	-0°49'34
opposition	11050 Aug 26 10:34	13°) ₹36′36	-0°29'20	minimum elong	11057 Mar 29 17:21	13° Y 43'43	0°49'40
min. Earth dist.	11050 Aug 26 18:20		17.44171 AU	max. Earth dist.	11057 Mar 29 14:59	13° Y 43'21	19.78535 AU
direct	11050 Nov 10 17:03	11° ∺ 31'12		morning rise	11057 Apr 14 17:20	14° Ƴ 42'27	
evening set	11051 Feb 13 21:41	14° ¥ 58'10		retrograde	11057 Jul 15 07:08	17° Y 59'19	
				opposition	11057 Sep 28 01:19	15° Y 58'38	
conjunction	11051 Mar 02 05:33	15° ¥ 58'58		min. Earth dist.	11057 Sep 28 02:32		17.81658 AU
minimum elong	11051 Mar 02 05:33	15° ¥ 58'58		direct	11057 Dec 13 20:19	13° Y 55'18	
max. Earth dist.	11051 Mar 01 21:01		19.46169 AU	evening set	11058 Mar 18 10:52	17° Ƴ 16'48	
morning rise	11051 Mar 18 10:50	16° ¥ 59′22				••	
retrograde	11051 Jun 18 06:51	20°) €20'14		conjunction	11058 Apr 03 12:29	18° ℃ 15'35	
opposition	11051 Aug 31 10:19	18°) 18′06		minimum elong	11058 Apr 03 12:28	18° Y 15'35	
min. Earth dist.	11051 Aug 31 16:10		17.48313 AU	max. Earth dist.	11058 Apr 03 11:45		19.84785 AU
direct	11051 Nov 15 19:24	16°) 12'55		morning rise	11058 Apr 19 11:31	19° Y 14′00	
evening set	11052 Feb 18 22:18	19°) 39'19		retrograde	11058 Jul 20 00:53	22° Y 30′07	
				opposition	11058 Oct 02 22:12	20° Y 29'39	
conjunction	11052 Mar 06 05:26	20°) (39′52		min. Earth dist.	11058 Oct 02 22:27		17.87944 AU
minimum elong	11052 Mar 06 05:26	20°) (39′52		direct	11058 Dec 18 19:46	18° Y 26'37	
max. Earth dist.	11052 Mar 05 23:13		19.50581 AU	evening set	11059 Mar 23 05:57	21° Y 47'05	
morning rise	11052 Mar 22 09:39	21°) 40'01			11050 4 00 0005	2200045125	0054110
retrograde	11052 Jun 22 03:50	25°) €00'17	0020125	conjunction	11059 Apr 08 06:35	22°\bar{Y}45'32	
opposition	11052 Sep 04 09:51	22°) 58'24		minimum elong	11059 Apr 08 06:34	22°\dagger45'32	
min. Earth dist.	11052 Sep 04 15:22		17.52977 AU	max. Earth dist.	11059 Apr 08 05:54		19.91108 AU
direct	11052 Nov 19 19:14	20°) €53'29		morning rise	11059 Apr 24 04:59	23° Y 43'40	
evening set	11053 Feb 22 22:30	24°) (19′14		retrograde	11059 Jul 24 16:59	26° Y 59'01	1001117
	1105235 15 255	0.50\/	002/22	opposition	11059 Oct 07 18:33	24° Y 58'43	
conjunction	11053 Mar 11 04:34 11053 Mar 11 04:33	25° ¥ 19'30		min. Earth dist.	11059 Oct 07 18:25		17.94308 AU
minimum elong	11054 Mar 11 04:33	75~#1030	0°36'31	direct	11059 Dec 23 16:52	22° Y 55'58	
_							
max. Earth dist.	11053 Mar 10 42:19 11053 Mar 27 08:03		19.55492 AU	evening set	11060 Mar 26 23:47	26° Y 15′21	

				(-),		, F. 8	
conjunction	11060 Apr 11 23:44	27° Y °13′30 ⋅	-0°55'58	minimum elong	11066 May 08 10:40	23° 8 18'42 0°59'53	
minimum elong	11060 Apr 11 23:44	27° Y 13'30	0°56'12	max. Earth dist.	11066 May 08 17:26	23° 8 19'43 20.36673 A	U
max. Earth dist.	11060 Apr 12 00:31	27° Ƴ 13'37	19.97491 AU	morning rise	11066 May 24 05:22	24° 8 14'55	
morning rise	11060 Apr 27 21:24	28° Ƴ 11'20		retrograde	11066 Aug 23 20:32	27° 8 25'10	
	11060 May 31 09:52	0°B		opposition	11066 Nov 07 21:51	25° 8 26'00 -1°05'38	
retrograde	11060 Jul 28 09:35	1° 8 25'54		min. Earth dist.	11066 Nov 07 14:07	25° 8 26'47 18.39983 A	U
-	11060 Sep 27 17:04	30° Ŗ ♈		direct	11067 Jan 24 01:26	23° 8 25'26	
opposition	11060 Oct 11 14:09	29° Y 25'45 ⋅	-1°03'02	evening set	11067 Apr 27 02:06	26° 8 37'12	
min. Earth dist.	11060 Oct 11 12:45	29° Ƴ 25'54	18.00694 AU				
direct	11060 Dec 27 14:56	27° Y 23'17		conjunction	11067 May 12 21:37	27° 8 33'19 -0°58'48	
	11061 Mar 19 17:27	0°8		minimum elong	11067 May 12 21:37	27° 8 33'19 0°59'19	
evening set	11061 Mar 31 16:50	0° 8 41'34		max. Earth dist.	11067 May 13 05:30	27° 8 34'30 20.43246 A	U
				morning rise	11067 May 28 16:00	28° 8 29'19	
conjunction	11061 Apr 16 15:55	1° 8 39'24	-0°57'24		11067 Jun 25 17:19	Π°	
minimum elong	11061 Apr 16 15:55	1° 8 39'23	0°57'41	retrograde	11067 Aug 28 07:28	1° Ⅱ 38'57	
max. Earth dist.	11061 Apr 16 17:03	1° 8 39'34	20.03891 AU		11067 Nov 04 07:38	30° ₹ 8	
morning rise	11061 May 02 13:00	2° 8 36'56		opposition	11067 Nov 12 13:01	29° 8 40'00 -1°04'46	
retrograde	11061 Aug 01 23:59	5° 8 50'43		min. Earth dist.	11067 Nov 12 05:29	29° 8 40'46 18.46513 A	U
opposition	11061 Oct 16 09:04	3° 8 50'42	-1°04'26	direct	11068 Jan 28 14:59	27° 8 39'49	
min. Earth dist.	11061 Oct 16 07:30	3° 8 50'52	18.07121 AU		11068 Apr 15 11:33	0° I I	
direct	11062 Jan 01 10:07	1° 8 48'29		evening set	11068 Apr 30 12:43	0° Д 50'35	
evening set	11062 Apr 05 08:45	5° 8 05'40		Ü	1		
				conjunction	11068 May 16 07:49	1° Ⅱ 46'27 -0°57'53	
conjunction	11062 Apr 21 07:11	6° 8 03'11	-0°58'30	minimum elong	11068 May 16 07:49	1° П 46'27 0°58'26	
minimum elong	11062 Apr 21 07:11	6° 8 03'11		max. Earth dist.	11068 May 16 16:15	1° П 47'42 20.49708 A	U
max. Earth dist.	11062 Apr 21 09:42	_	20.10339 AU	morning rise	11068 Jun 01 02:03	2°П42'13	
morning rise	11062 May 07 03:38	7° 8 00'26	20.10337110	retrograde	11068 Aug 31 21:00	5° I 51'17	
retrograde	11062 Aug 06 15:22	10° 8 13'26		opposition	11068 Nov 16 03:29	3° П 52'32 -1°03'34	
opposition	11062 Oct 21 03:21	8° 8 13'34	-1°05'26	min. Earth dist.	11068 Nov 15 18:14	3° Д 53'29 18.52877 A	П
min. Earth dist.	11062 Oct 21 00:00		18.13588 AU	direct	11069 Feb 01 06:07	1° П 52'43	
direct	11062 Get 21 00:00 11063 Jan 06 06:17	6° 8 11'38	10.15500710	evening set	11069 May 04 22:43	5° П 02'30	
evening set	11063 Apr 09 23:33	9° 8 27'40		evening set	1100) Way 04 22.43	3 H 02 30	
evening sec	11005 11p1 07 25.55	9 027 10		conjunction	11069 May 20 17:27	5° П 58'09 -0°56'40	
conjunction	11063 Apr 25 21:14	10° 8 24'53	-0°59'15	minimum elong	11069 May 20 17:27	5° П 58'09 0°57'14	
minimum elong	11063 Apr 25 21:14	10° 8 24'53		max. Earth dist.	11069 May 21 02:51	5° П 59'33 20.55958 A	II
max. Earth dist.	11063 Apr 26 00:42	_	20.16834 AU	morning rise	11069 Jun 05 11:25	6° П 53'43	.0
morning rise	11063 May 11 17:11	11° 8 21'52	20.10054710	retrograde	11069 Sep 05 06:37	10° Ⅲ 02'14	
retrograde	11063 Aug 11 04:26	14° 8 34'08		opposition	11069 Nov 20 17:33	8° П 03'41 -1°02'02	
opposition	11063 Aug 11 04:20 11063 Oct 25 21:03	12° 8 34'23	1006'03	min. Earth dist.	11069 Nov 20 17:33 11069 Nov 20 08:48	8° Д 04'34 18.59012 A	TT
min. Earth dist.	11063 Oct 25 27:05		18.20131 AU	direct	11070 Feb 05 18:26	6° П 04'13	.0
direct	11064 Jan 10 23:38	10° 8 32'45	10.20131 AC	evening set	11070 May 09 08:04	9° П 13'02	
evening set	11064 Apr 13 13:29	13° 8 47'41		evening set	11070 Way 07 00.04) H13 02	
evening set	11004 Apr 13 13.29	13 04741		conjunction	11070 May 25 02:28	10° 耳 08′28 -0°55′10	
conjunction	11064 Apr 29 10:35	14° 8 44'37	-0°50'38	minimum elong	11070 May 25 02:28	10° I 108'28 0°55'45	
minimum elong	11064 Apr 29 10:35	14° 8 44'37		max. Earth dist.	11070 May 25 02:28 11070 May 25 12:02	10° II 09'52 20.61962 A	TT
max. Earth dist.	11064 Apr 29 15:18		20.23413 AU	morning rise	11070 Jun 09 20:22	11° I (03'49	.0
max. Earth dist.	11064 May 03 16:42	15° 8	20.23413 AU	retrograde	11070 Sep 09 19:15	14° I 11'50	
morning rise	11064 May 15 06:03	15° 8 41'20		opposition	11070 Sep 09 19:13 11070 Nov 25 07:00	12° Д 13'26 -1°00'11	
retrograde	11064 Aug 14 18:42	18° 8 52'52		min. Earth dist.	11070 Nov 24 20:43	12° Д 1320 -1 00 11 12° Д 14'28 18.64861 A	11
opposition	11064 Oct 29 13:47	16° 8 53'18	-1°06'17	direct	11070 Feb 10 08:49	10° I 14'17	
min. Earth dist.	11064 Oct 29 08:09		18.26734 AU	evening set	11071 May 13 16:39	10 П 1417 13° П 22'10	
mm. Darm dist.	11064 Oct 29 08:09 11064 Dec 27 19:41	15°R 8	10.20/JT AU	ovening set	110/11/10y 13 10.39	1.5 11.22 10	
direct	11064 Dec 27 13:41 11065 Jan 14 17:40	14° 8 52'00		conjunction	11071 May 29 10:51	14° Ⅱ 17'24 -0°53'22	
direct	11065 Feb 01 09:51	15° 8		minimum elong	11071 May 29 10:51	14° I 17'24 -0°53'58	
avaning sat	11065 Apr 18 02:35	18° 8 05'52		max. Earth dist.	11071 May 29 10.31 11071 May 29 21:19	14° I 18'56 20.67636 A	T T
evening set	11003 Apr 16 02.33	16 003 32			11071 Jun 14 04:38	15° I 12'35	.0
conjunction	11065 May 03 23:05	19° 8 02'30	-0°50'//1	morning rise retrograde	11071 Jun 14 04:38 11071 Sep 14 04:05	13°Щ12'33 18°Щ20'07	
conjunction	•			•	-		
minimum elong	11065 May 03 23:05	19° 8 02'30		opposition	11071 Nov 29 20:03	16° Ⅱ 21'50 -0°58'02	T T
max. Earth dist.	11065 May 04 04:51		20.30034 AU	min. Earth dist.	11071 Nov 29 10:28	16° Ⅱ 22'48 18.70358 A	.υ
morning rise	11065 May 19 18:08	19° 8 58'58		direct	11072 Feb 14 19:50	14° Ⅱ 22'58	
retrograde	11065 Aug 19 06:45	23° 8 09'51	1006100	evening set	11072 May 17 00:48	17° Ⅱ 29'57	
opposition	11065 Nov 03 06:11	21°810'28			11070 1 01 10 15	100 TO 4450 0051110	
min. Earth dist.	11065 Nov 03 00:26		18.33372 AU	conjunction	11072 Jun 01 18:47	18° II 24'59 -0°51'19	
direct	11066 Jan 19 08:59	19° 8 09'31		minimum elong	11072 Jun 01 18:47	18° II 24'59 0°51'56	* *
evening set	11066 Apr 22 14:42	22° 8 22'20		max. Earth dist.	11072 Jun 02 05:01	18° II 26'29 20.72944 A	.U
conjunction	1107637 00 10 11	2201 310	0050105	morning rise	11072 Jun 17 12:38	19° I I20'00	
	11066 May 08 10:40	23° 8 18'42 -	-u~59725	retrograde	11072 Sep 17 14:58	22° Ⅲ 27'03	

11079 Jun 14 17:58

evening set

15°5548'09

conjunction minimum elong behind sun begin	11085 Jul 23 16:10 11085 Jul 23 16:10 11085 Jul 23 10:16	10°Ω31'54 10°Ω31'54 10°Ω31'05		conjunction minimum elong behind sun begin	11090 Aug 12 18:41 11090 Aug 12 18:41 11090 Aug 12 14:35	0° m/24'19 0° m/24'20 0° m/23'45	0°13'14 0°12'52
behind sun end	11085 Jul 23 22:05	10° Ω 32'43		behind sun end	11090 Aug 12 22:47	0° m 24′54	
max. Earth dist.	11085 Jul 24 05:15		21.08055 AU	max. Earth dist.	11090 Aug 13 04:44	-	21.01031 AU
morning rise	11085 Aug 08 14:08	11° Ω 26'13		morning rise	11090 Aug 28 19:50	1° Mp 19'06	
retrograde opposition	11085 Nov 09 18:57 11086 Jan 26 10:30	14° Ω 31'11 12° Ω 33'02	0005155	retrograde opposition	11090 Nov 30 11:50 11091 Feb 16 01:19	4° ፞፞፞፞፞	0°16'49
min. Earth dist.	11086 Jan 25 22:58		19.07936 AU	min. Earth dist.	11091 Feb 15 15:22		18.99754 AU
direct	11086 Apr 12 16:18	10°Ω36'15	13.07350110	direct	11091 May 02 21:02	0°m,29'11	10.55 / 0 . 110
evening set	11086 Jul 12 00:42	13° Ω 36′00		evening set	11091 Aug 01 01:42	3° m 29'14	
conjunction	11086 Jul 27 21:09	14° Ω 30′05	-0°03'21	conjunction	11091 Aug 17 00:55	4° Mp 23′47	0°17'14
minimum elong	11086 Jul 27 21:10	14° Ω 30'05	0°03'52	minimum elong	11091 Aug 17 00:55	4° m 23′47	
behind sun begin	11086 Jul 27 14:40	14° Ω 29'11		max. Earth dist.	11091 Aug 17 11:22		20.98376 AU
behind sun end max. Earth dist.	11086 Jul 28 03:41 11086 Jul 28 08:55	14° Ω 31'00	21.07660 AU	morning rise retrograde	11091 Sep 02 02:33 11091 Dec 04 19:47	5° Mp 18'43 8° Mp 25'17	
max. Lattii dist.	11086 Aug 05 14:18	14 0 (31 43	21.07000 AU	opposition	11091 Bec 04 19:47 11092 Feb 20 09:01	6° Mg 26'11	0°21'13
morning rise	11086 Aug 12 19:49	15° Ω 24'29		min. Earth dist.	11092 Feb 19 23:51	6° Mg 27'07	
retrograde	11086 Nov 14 03:40	18° Ω 29'37		direct	11092 May 06 01:47	4° m 28'55	
opposition	11087 Jan 30 18:21	16° Ω 31′20	-0°01'22	evening set	11092 Aug 04 07:41	7° m 29'14	
min. Earth dist.	11087 Jan 30 06:47		19.07257 AU				
	11087 Mar 15 09:43	15°R€		conjunction	11092 Aug 20 07:24	8° m 23'55	
direct	11087 Apr 16 22:08	14° Ω 34'31		minimum elong	11092 Aug 20 07:24	8° Mp 23'55	0°20'54
asc. node	11087 May 16 04:07 11087 May 18 16:48	14° Ω 56'09 15° Ω		max. Earth dist.	11092 Aug 20 16:38 11092 Sep 05 09:49	8° llp 25'14 9° llp 19'00	20.95399 AU
evening set	11087 Jul 16 05:18	13 δι 17° Ω 34'13		morning rise retrograde	11092 Sep 03 09:49 11092 Dec 08 05:57	12°M)26'00	
evening set	11007 341 10 03.10	1/ 063413		opposition	11092 Bec 08 03:37 11093 Feb 23 17:00	10° Mp 26'45	0°25'33
conjunction	11087 Aug 01 02:23	18° Ω 28'22	0°00'53	min. Earth dist.	11093 Feb 23 07:54		18.93794 AU
minimum elong	11087 Aug 01 02:21	18° Ω 28'22	0°00'25	direct	11093 May 10 08:09	8° m/29'22	
behind sun begin	11087 Jul 31 19:48	18° Ω 27'27		evening set	11093 Aug 08 13:55	11° m/30'02	
behind sun end	11087 Aug 01 08:55	18° Ω 29'17					
max. Earth dist.	11087 Aug 01 14:18		21.06700 AU	conjunction	11093 Aug 24 14:21	12° m 24'53	0°25'02
morning rise	11087 Aug 17 01:31	19° £ 22′50		minimum elong	11093 Aug 24 14:21	12° Tp 24'53	0°24'46
retrograde	11087 Nov 18 10:27	22° Ω 28'09	0002112	max. Earth dist.	11093 Aug 25 00:03		20.92096 AU
opposition min. Earth dist.	11088 Feb 04 02:11 11088 Feb 03 15:38	20° Ω 29'44 20° Ω 30'48	0°03'13 19.06029 AU	morning rise	11093 Sep 09 17:19	13° Mp 20'07 16° Mp 27'37	
direct	11088 Feb 03 13:38 11088 Apr 20 03:54	18° Ω 32'52	19.00029 AU	retrograde opposition	11093 Dec 12 15:24 11094 Feb 28 01:17	10 my 27 37 14° my 28'13	0°29'45
evening set	11088 Jul 19 10:05	21°Ω32'32		min. Earth dist.	11094 Feb 27 16:53		18.90331 AU
				direct	11094 May 14 13:49	12° m/30'45	
conjunction	11088 Aug 04 07:33	22° Ω 26'46	0°05'04	evening set	11094 Aug 12 20:56	15° m 31'49	
minimum elong	11088 Aug 04 07:32	22° Ω 26'46	0°04'38				
behind sun begin	11088 Aug 04 01:05	22° Ω 25'52		conjunction	11094 Aug 28 21:54	16° Mp 26'50	0°28'46
behind sun end	11088 Aug 04 14:00	22° Ω 27'40		minimum elong	11094 Aug 28 21:54	16° TD 26'50	0°28'34
max. Earth dist.	11088 Aug 04 18:15		21.05236 AU	max. Earth dist.	11094 Aug 29 06:12		20.88485 AU
morning rise	11088 Aug 20 07:24	23° Ω 21'19		morning rise	11094 Sep 14 01:42	17° Mp 22'15	
retrograde opposition	11088 Nov 21 19:10 11089 Feb 07 09:50	26° Ω 26'53 24° Ω 28'18	0°07'47	retrograde opposition	11094 Dec 17 02:17 11095 Mar 04 09:37	20° Mp 30'17 18° Mp 30'45	0°33'50
min. Earth dist.	11089 Feb 06 23:12		19.04336 AU	min. Earth dist.	11095 Mar 04 01:40		18.86561 AU
direct	11089 Apr 24 09:48	22° Ω 31'19	13.0 1330 110	direct	11095 May 18 20:02	16° mp 33'09	10.00001110
evening set	11089 Jul 23 15:00	25° Ω 31′03		evening set	11095 Aug 17 04:27	19° m 34'43	
conjunction	11089 Aug 08 13:04	26° Ω 25'22	0°09'10	conjunction	11095 Sep 02 06:13	20° m 29'56	0°32'23
minimum elong	11089 Aug 08 13:04	26° Ω 25'22	0°08'46	minimum elong	11095 Sep 02 06:12	20° m/29'56	0°32'13
behind sun begin	11089 Aug 08 07:21	26° Ω 24'35		max. Earth dist.	11095 Sep 02 14:43	20°m/31'09	20.84539 AU
behind sun end	11089 Aug 08 18:47	26° Ω 26′10		morning rise	11095 Sep 18 10:33	21°M 25'32	
max. Earth dist.	11089 Aug 09 00:12		21.03322 AU	retrograde	11095 Dec 21 13:01	24° m/34'09	
morning rise	11089 Aug 24 13:25	27° Ω 20'02		opposition	11096 Mar 07 18:23	22° Mp 34'28	
notno orr- 1-	11089 Oct 24 11:30	0°M)		min. Earth dist.	11096 Mar 07 11:20	22° Mp 35'11	18.82439 AU
retrograde	11089 Nov 26 02:17 11089 Dec 29 10:04	0° m/25′53 30° R.Ω		direct evening set	11096 May 22 03:02 11096 Aug 20 12:44	20° m/36'46 23° m/38'53	
opposition	11089 Dec 29 10:04 11090 Feb 11 17:36	30°κ31 28° Ω 27'07	0°12'19	evening set	11070 Aug 20 12.44	25 OC VII C7	
min. Earth dist.	11090 Feb 11 17:30 11090 Feb 11 07:43		19.02224 AU	conjunction	11096 Sep 05 15:00	24° Mp 34'17	0°35'51
direct	11090 Apr 28 14:52	26° Ω 30'04		minimum elong	11096 Sep 05 15:00	24° mp 34'17	0°35'44
evening set	11090 Jul 27 20:09	29° Ω 29'54		max. Earth dist.	11096 Sep 05 21:46		20.80247 AU
	11090 Aug 05 16:57	0° m		morning rise	11096 Sep 21 20:08	25° Mp 30'07	
				retrograde	11096 Dec 25 00:44	28° Mp 39'20	

opposition	11097 Mar	12	03:32	26° m 39'31	0°41'32
min. Earth dist.	11097 Mar	11	21:15	26° Mp 40'09	18.77963 AU
direct	11097 May	26	09:42	24° my $41'40$	
evening set	11097 Aug	24	21:42	27° m 44'24	
conjunction	11097 Sep	10	00:46	28° Mp 40° 01	0°39'10
minimum elong	11097 Sep	10	00:46	28° m 40'01	0°39'06
max. Earth dist.	11097 Sep			28° Mp 40'59	20.75568 AU
morning rise	11097 Sep	26	06:25	29° Mp 36'03	
	11097 Oct	03	10:15	0∘ ⊽	
retrograde	11097 Dec	29	12:32	2° ≏ 45'55	
opposition	11098 Mar			0° ≏ 45'56	0°45'07
min. Earth dist.	11098 Mar			0° ჲ 46'29	18.73084 AU
	11098 Apr			30°R, MD	
direct	11098 May			28° m 47'55	
	11098 Jul			0∘ ত	
evening set	11098 Aug	29	07:32	1° ≏ 51'18	
conjunction	11098 Sep			2° △ 47'09	0°42'18
minimum elong	11098 Sep			2° ₽ 47'09	0°42'16
max. Earth dist.	11098 Sep			2° Ω 47'48	20.70488 AU
morning rise	11098 Sep			3° £ 43'25	
retrograde	11099 Jan			6° £ 53'57	0040120
opposition min. Earth dist.	11099 Mar			4° £ 53'46	0°48'29
	11099 Mar			4° £ 54'11	18.67795 AU
direct	11099 Jun 11099 Sep			2° £ 55'30 5° £ 59'36	
evening set	11099 Sep	02	18.02	3 == 39 30	
conjunction	11099 Sep	18	22:32	6° £ 55'42	0°45'14
minimum elong	11099 Sep			6° £ 55'41	0°45'16
max. Earth dist.	11099 Sep			6° ₽ 56'18	20.64983 AU
morning rise	11099 Oct			7° ₽ 52'12	20.0.000110
retrograde	11100 Jan		13:45	11° ഫ 03'22	
opposition	11100 Mar	25	09:22	9° ഫ 02'58	0°51'38
min. Earth dist.	11100 Mar	25	06:12	9° ഫ 03'18	18.62091 AU
direct	11100 Jun	08	11:18	7° ≏ 04'26	
evening set	11100 Sep	07	05:20	10° ჲ 09'16	
	•				
conjunction	11100 Sep	23	10:24	11° ≏ 05'37	0°47'57
minimum elong	11100 Sep	23	10:24	11° ≏ 05'37	0°48'00
max. Earth dist.	11100 Sep	23	12:23	11° ≏ 05'55	20.59111 AU
morning rise	11100 Oct			12° ≏ 02'22	
retrograde	11101 Jan	12	03:28	15° ≙ 14'14	
opposition	11101 Mar	29	20:11	13° ≏ 13'34	0°54'32
min. Earth dist.	11101 Mar	29	18:11	13° ≙ 13'46	18.56060 AU
direct	11101 Jun	12	20:32	11° ≏ 14'43	
evening set	11101 Sep	11	17:05	14° ≏ 20'20	
conjunction	11101 Sep			15° ≙ 16'57	0°50'25
minimum elong	11101 Sep			15° ≙ 16'57	0°50'32
max. Earth dist.	11101 Sep			15° ≏ 17'15	20.52931 AU
morning rise	11101 Oct	14	07:22	16° ≏ 13'58	