opposition	13600 Feb 19 16:35	9° m 52'12	-0°47'48	direct	13605 Oct 16 11:49	2° ₩ 01'20	
min. Earth dist.	13600 Feb 20 12:15	9° m 45'42	3.98169 AU	evening set	13606 Feb 18 17:23	19° ¥ 28'19	
direct	13600 Apr 18 23:32	4° m 55'43					
evening set	13600 Aug 24 00:39	24° m 51'54		conjunction	13606 Mar 03 23:01	22° 升 19′12	0°27'41
				minimum elong	13606 Mar 03 23:01	22°) 19′13	0°27'56
conjunction	13600 Sep 06 05:16	28° m 04'43	-0°24'52	max. Earth dist.	13606 Mar 04 14:42	22°) 27′40	6.44951 AU
minimum elong	13600 Sep 06 05:17	28° m 04'44	0°25'00	morning rise	13606 Mar 17 03:29	25° ₩ 09'20	
max. Earth dist.	13600 Sep 05 17:46	27° m 57'43	5.92654 AU		13606 Apr 09 08:21	0° Υ	
	13600 Sep 14 02:14	0∘ ⊽		retrograde	13606 Jul 16 16:08	12° Y 00′06	
morning rise	13600 Sep 19 11:37	1° ≏ 18'39		opposition	13606 Sep 15 15:39	7° Y 02'59	0°30'11
retrograde	13601 Jan 28 20:18	22° ₾ 02'27	0000151	min. Earth dist.	13606 Sep 15 14:38	7° Υ 03'19	4.49043 AU
opposition	13601 Mar 29 03:31	17° £ 03'16		direct	13606 Nov 16 16:41	2°Υ02'13	
min. Earth dist.	13601 Mar 28 20:49	17° £ 05'31	3.89664 AU	evening set	13607 Mar 21 10:50	19° Ƴ 06'34	
direct	13601 May 26 09:36	12° ≗ 08'06 0° I L		amiumatian	12607 Apr. 02 12:26	21° Υ 53'36	0°12'40
evening set	13601 Sep 20 21:23 13601 Sep 30 22:11	2°M25'33		conjunction minimum elong	13607 Apr 03 12:36 13607 Apr 03 12:37	21 γ 53 36 21° Υ 53'36	0°12'40 0°12'23
evening set	13001 Sep 30 22.11	2 1162333		behind sun begin	13607 Apr 03 12.37 13607 Apr 03 07:22	21° Υ 50'49	0 12 23
conjunction	13601 Oct 14 08:30	5°ML42'38	-0°04'08	behind sun end	13607 Apr 03 17:51	21°Υ56'23	
minimum elong	13601 Oct 14 08:30	5°M42'38	0°03'36	max. Earth dist.	13607 Apr 03 17:31 13607 Apr 03 00:13	21° Υ 47'00	6.51030 AU
behind sun begin	13601 Oct 14 00:14	5°M37'35	0 03 30	morning rise	13607 Apr 16 12:31	24° Υ 39'46	0.51050710
behind sun end	13601 Oct 14 16:46	5°M47'40		morning rise	13607 May 12 09:44	0°8	
max. Earth dist.	13601 Oct 15 11:57	5°M59'27	5.89593 AU	retrograde	13607 Aug 15 05:21	11° 8 14'30	
morning rise	13601 Oct 27 20:46	9°ML00'43	,	opposition	13607 Oct 15 09:56	6° 8 19'38	0°05'14
5	13601 Nov 22 02:41	15° M ₊		min. Earth dist.	13607 Oct 16 03:24	6° 8 14'02	4.50794 AU
asc. node	13601 Dec 24 17:52	21°M55'02		direct	13607 Dec 16 21:37	1° 8 18'46	
retrograde	13602 Mar 08 10:11	29°M49'08		desc. node	13607 Dec 29 19:49	1° 8 33'39	
opposition	13602 May 06 16:36	24°M46'59	0°12'01		13608 Apr 03 08:39	15° 8	
min. Earth dist.	13602 May 05 12:05	24°M56'39	3.92477 AU	evening set	13608 Apr 19 13:33	18° 8 24'24	
direct	13602 Jul 03 18:10	19°M51'20		max. Earth dist.	13608 Apr 30 21:56	20° 8 50'38	6.48302 AU
	13602 Sep 25 19:04	0° ∡ ¹					
evening set	13602 Nov 08 02:58	9° ∡ ¹48'22		conjunction	13608 May 02 11:51	21° 8 11'04	-0°05'39
				minimum elong	13608 May 02 11:51	21° 8 11'04	0°06'23
conjunction	13602 Nov 21 16:29	13° ∡ 02'55	0°18'14	behind sun begin	13608 May 02 04:19	21° 8 07'02	
minimum elong	13602 Nov 21 16:28	13° ∡ 02'54	0°19'12	behind sun end	13608 May 02 19:22	21° 8 15'06	
max. Earth dist.	13602 Nov 24 00:16	13° ∡ ³36′18	5.97913 AU	morning rise	13608 May 15 08:31	23° 8 57'06	
morning rise	13602 Dec 05 07:18	16° ∡ 17'54			13608 Jun 13 12:38	$\Pi^{\circ}0$	
	13603 Feb 07 13:33	0°ಕ		retrograde	13608 Sep 13 16:55	10° Ⅱ 46'32	
retrograde	13603 Apr 13 21:04	6° る 17'00		opposition	13608 Nov 13 18:37	5° Ⅱ 52'49	
min. Earth dist.	13603 Jun 10 20:13	1°る26'42		min. Earth dist.	13608 Nov 15 04:13		4.43763 AU
opposition	13603 Jun 12 11:17	1°る13'29	0°40'42	direct	13609 Jan 15 04:48	0° П 52'07	
	13603 Jun 21 15:05	30°₹ ৴		evening set	13609 May 20 01:21	18° Ⅱ 22'52	6.2 72 00 177
direct	13603 Aug 10 04:13	26° ₹ 16'05		max. Earth dist.	13609 May 30 15:20	20° Ц 42'4'/	6.37380 AU
. ,	13603 Sep 28 06:11	0°る		. ,.	12(00 1 01 21 44	210 T 12152	0022142
evening set	13603 Dec 14 22:32	15° る 22'56		conjunction	13609 Jun 01 21:44 13609 Jun 01 21:43	21° II 12'52 21° II 12'51	
conjunction	13603 Dec 28 11:20	18° る 29'46	0°32'45	minimum elong morning rise	13609 Jun 14 17:02	24° I I02'34	0 23 43
minimum elong	13603 Dec 28 11:20	18° る 29'45	0°33'46	morning rise	13609 Jul 12 14:16	0°9	
max. Earth dist.	13603 Dec 28 11:20 13603 Dec 30 22:04	18 3 2943	6.13916 AU	retrograde	13609 Oct 15 23:00	11°936'18	
morning rise	13604 Jan 11 00:48	21°る36'29	0.13710710	opposition	13609 Dec 15 17:24	6°942'34	-0°43'28
morning rise	13604 Feb 18 15:41	0°≈		min. Earth dist.	13609 Dec 13 17:21 13609 Dec 17 08:58	6°\$29'49	4.29570 AU
retrograde	13604 May 16 11:53	10° ≈ 21'05		direct	13610 Feb 15 09:19	1°9642'36	1.29370110
min. Earth dist.	13604 Jul 14 04:09	5°≈30'11	4.22806 AU	evening set	13610 Jun 20 21:35	19° © 59'02	
opposition	13604 Jul 15 15:01	5° ≈ 18'31	0°52'53	max. Earth dist.	13610 Jul 01 11:48	22° © 24'21	6.20924 AU
direct	13604 Sep 13 11:45	0° ≈ 19'17					
	13605 Jan 01 08:15	15° ≈		conjunction	13610 Jul 03 18:22	22° © 55'41	-0°33'57
evening set	13605 Jan 17 10:39	18° ≈ 30'06		minimum elong	13610 Jul 03 18:22	22°555'41	0°34'57
•				morning rise	13610 Jul 16 14:43	25° © 52'30	
conjunction	13605 Jan 30 20:32	21° ≈ 28′05	0°35'31	-	13610 Aug 03 22:56	$0^{\circ}\Omega$	
minimum elong	13605 Jan 30 20:32	21° ≈ 28′05	0°36'16	retrograde	13610 Nov 19 21:09	14° Ω 34'21	
max. Earth dist.	13605 Feb 01 16:24	21° ≈ 52'23	6.31424 AU	opposition	13611 Jan 19 01:37	9° Ω 39'40	-0°53'40
morning rise	13605 Feb 13 05:39	24° ≈ 25′26		min. Earth dist.	13611 Jan 20 12:38	9° Ω 28'15	4.11965 AU
	13605 Mar 11 08:36	0° ∀		direct	13611 Mar 20 13:14	4° Ω 41'21	
retrograde	13605 Jun 16 18:54	12° ₩ 01'32			13611 Jun 15 04:56	15° Ω	
opposition	13605 Aug 16 09:45	7° 米 01′35		evening set	13611 Jul 24 20:47	23° Ω 54′03	
min. Earth dist.	13605 Aug 15 13:02	7° ∺ 08′23	4.38904 AU	max. Earth dist.	13611 Aug 05 05:09	26° Ω 35'58	6.03661 AU

	12(11 4 0(20 27	260 0 50121	0024120		12617 F 1 17 10 26	20057105	
conjunction	13611 Aug 06 20:37	26° Ω 59'31		morning rise	13617 Feb 17 19:36	28°≈57'05	
minimum elong	13611 Aug 06 20:38	26° Ω 59'31	0°35'18		13617 Feb 22 15:04	0° ∀	
morning rise	13611 Aug 19 21:23	0° Mp 05'45		retrograde	13617 Jun 21 00:24	16° ∺ 25'57	
	13611 Aug 19 11:41	0° m)		opposition	13617 Aug 20 16:56	11° ∺ 26′22	0°46'02
retrograde	13611 Dec 27 07:04	20° m 02'34		min. Earth dist.	13617 Aug 19 22:35	11° ∺ 32'23	4.40567 AU
opposition	13612 Feb 24 23:07	15° m 05'50	-0°45'21	direct	13617 Oct 20 22:03	6° ∺ 26'01	
min. Earth dist.	13612 Feb 25 14:38	15° m 00'41	3.96603 AU	evening set	13618 Feb 23 02:28	23°) 49′05	
direct	13612 Apr 24 01:43	10° Mp 09'32					
	13612 Aug 28 12:26	0∘ ত		conjunction	13618 Mar 08 07:43	26°) 39′20	0°25'53
evening set	13612 Aug 29 05:02	0° ♀ 10'04		minimum elong	13618 Mar 08 07:44	26°) 39′20	0°26'04
_	-			max. Earth dist.	13618 Mar 08 21:07	26°) 46′32	6.46178 AU
conjunction	13612 Sep 11 10:30	3° ₽ 23'44	-0°22'25	morning rise	13618 Mar 21 11:24	29° ₩ 28'44	
minimum elong	13612 Sep 11 10:31	3° ჲ 23'44	0°22'27	Ü	13618 Mar 23 22:07	$0^{\circ}\Upsilon$	
max. Earth dist.	13612 Sep 11 05:02		5.91734 AU	retrograde	13618 Jul 20 19:23	16° Ƴ 15'47	
morning rise	13612 Sep 24 17:37	6° ₽ 38'28	3.51731710	opposition	13618 Sep 19 20:13	11° Υ 19'05	0°26'57
retrograde	13613 Feb 03 06:27	27° ₽ 25'37		min. Earth dist.	13618 Sep 19 20:57	11° Υ 18'51	4.49793 AU
opposition	13613 Apr 03 12:32	22° £ 25'58	0°18'12	direct	13618 Nov 20 23:00	6°Υ18'25	4.47173 AO
						23° Υ 21'28	
min. Earth dist.	13613 Apr 03 03:22	22° ₽ 29'03	3.89491 AU	evening set	13619 Mar 25 16:55	23 1 21 28	
direct	13613 May 31 17:56	17° 2 30'47			12610 1 07 17 50	2 < 200 0 0 0 11 0	0010110
	13613 Sep 03 01:24	0°M,		conjunction	13619 Apr 07 17:58	26° Y 08'10	0°10'12
evening set	13613 Oct 06 05:32	7° M 47'21		minimum elong	13619 Apr 07 17:59	26° Y ′08′10	0°09'49
				behind sun begin	13619 Apr 07 11:27	26° Y ′04'42	
conjunction	13613 Oct 19 16:32	11°ML04'26	-0°00'49	behind sun end	13619 Apr 08 00:31	26° Ƴ 11'39	
minimum elong	13613 Oct 19 16:33	11°M04'26	0°00'12	max. Earth dist.	13619 Apr 07 01:11		6.51280 AU
behind sun begin	13613 Oct 19 08:15	10° M 59′24		morning rise	13619 Apr 20 17:28	28° Ƴ 54'05	
behind sun end	13613 Oct 20 00:50	11° M 09'29			13619 Apr 25 22:17	$_{0\circ}$ 8	
max. Earth dist.	13613 Oct 21 01:21	11° M 24'29	5.90185 AU		13619 Aug 01 19:30	15° 8	
morning rise	13613 Nov 02 05:22	14°M22'28		retrograde	13619 Aug 19 11:19	15° 8 28'36	
asc. node	13613 Nov 03 01:20	14°M34'34		•	13619 Sep 05 23:54	15° ₹ 8	
	13613 Nov 04 19:22	15° M ₊		opposition	13619 Oct 19 14:50	10° 8 33'59	0°01'27
	13614 Jan 14 16:23	0° ∡ ⊓		min. Earth dist.	13619 Oct 20 11:07	10° 8 27'29	4.50558 AU
retrograde	13614 Mar 13 14:55	5° ∡ ¹06'27		desc. node	13619 Nov 09 03:37	8° 8 03'32	
opposition	13614 May 11 21:43	0°×7'04'01	0°16'43	direct	13619 Dec 21 04:08	5° 8 33'09	
min. Earth dist.	13614 May 10 14:48	0° × 04 01	3.93775 AU	direct	13620 Mar 17 02:01	15° 8	
iiiii. Eartii tiist.		30°RM	3.93773 AU	avanina aat	13620 Apr 23 18:52	22° 8 40'01	
Ji	13614 May 12 09:35			evening set	•		6.47606 AU
direct	13614 Jul 08 23:51	25°M08'10		max. Earth dist.	13620 May 05 00:46	25° 8 05'11	0.4/000 AU
	13614 Sep 02 18:32	0° ∡ ¹					
evening set	13614 Nov 13 07:46	14° ₹ ′59'30		conjunction	13620 May 06 16:49	25° 8 26'48	
				minimum elong	13620 May 06 16:49	25° 8 26'48	0°08'59
conjunction	13614 Nov 26 21:14	18° ≯ 13'10	0°20'52	behind sun begin	13620 May 06 09:59	25° 8 23'08	
minimum elong	13614 Nov 26 21:13	18° ∡ 13′09	0°21'52	behind sun end	13620 May 06 23:39	25° 8 30'28	
max. Earth dist.	13614 Nov 29 05:20	18° ∡ ¹46'35	5.99754 AU	morning rise	13620 May 19 13:05	28° 8 12'57	
morning rise	13614 Dec 10 12:15	21° х 27'17			13620 May 27 21:51	Π°	
	13615 Jan 17 09:38	0°ರ				υщ	
retrograde	12615 Apr. 10 15:56			retrograde	13620 Sep 17 23:52	15° Ⅱ 05'27	
min. Earth dist.	13615 Apr 18 15:56	11° る 17'03		retrograde opposition			-0°24'51
	13615 Jun 15 17:15	11°る17'03 6°る26'46	4.07490 AU	•	13620 Sep 17 23:52	15° Ⅱ 05'27	-0°24'51 4.42658 AU
opposition	-		4.07490 AU 0°43'28	opposition	13620 Sep 17 23:52 13620 Nov 18 02:14	15°Щ05'27 10°Щ11'47	
opposition direct	13615 Jun 15 17:15	6° る 26'46		opposition min. Earth dist.	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00	15°Щ05'27 10°Щ11'47 10°Щ00'59	
direct	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45	6°පි26'46 6°පි13'30 1°පි15'45		opposition min. Earth dist. direct evening set	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22	15°Щ05'27 10°Щ11'47 10°Щ00'59 5°Щ11'11 22°Щ45'25	4.42658 AU
**	13615 Jun 15 17:15 13615 Jun 17 08:28	6°පි26'46 6°පි13'30		opposition min. Earth dist. direct	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01	15°Щ05'27 10°Щ11'47 10°Щ00'59 5°Щ11'11 22°Щ45'25	
direct evening set	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41	6° පි26'46 6° පි13'30 1° පි15'45 20° පි15'10	0°43'28	opposition min. Earth dist. direct evening set max. Earth dist.	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29	15°Щ05'27 10°Щ11'47 10°Щ00'59 5°Щ11'11 22°Щ45'25 25°Щ05'51	4.42658 AU 6.35934 AU
direct evening set	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21	6°526'46 6°513'30 1°515'45 20°515'10 23°520'51	0°43'28 0°33'50	opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29	15° Π05'27 10° Π11'47 10° Π00'59 5° Π11'11 22° Π45'25 25° Π05'51 25° Π35'53	4.42658 AU 6.35934 AU -0°24'41
direct evening set conjunction minimum elong	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21	6° පි26'46 6° පි13'30 1° පි15'45 20° පි15'10 23° පි20'51 23° පි20'51	0°43'28 0°33'50 0°34'49	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34	15° П05'27 10° П11'47 10° П00'59 5° П11'11 22° П45'25 25° П05'51 25° П35'53 25° П35'53	4.42658 AU 6.35934 AU -0°24'41
direct evening set conjunction minimum elong max. Earth dist.	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21 13616 Jan 04 19:27	6° පි26'46 6° පි13'30 1° පි15'45 20° පි15'10 23° පි20'51 23° පි20'51 23° පි54'08	0°43'28 0°33'50	opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41	15° П05'27 10° П11'47 10° П00'59 5° П11'11 22° П45'25 25° П05'51 25° П35'53 25° П35'52 28° П26'05	4.42658 AU 6.35934 AU -0°24'41
direct evening set conjunction minimum elong	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11	6° පි26'46 6° පි13'30 1° පි15'45 20° පි15'10 23° පි20'51 23° පි20'51 23° පි54'08 26° පි26'17	0°43'28 0°33'50 0°34'49	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44	15° ∏05'27 10° ∏11'47 10° ∏00'59 5° ∏11'11 22° ∏45'25 25° ∏05'51 25° ∏35'53 25° ∏35'52 28° ∏26'05 0° €	4.42658 AU 6.35934 AU -0°24'41
direct evening set conjunction minimum elong max. Earth dist.	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24	6°♂26'46 6°♂13'30 1°♂15'45 20°♂15'10 23°♂20'51 23°♂20'51 23°♂54'08 26°♂26'17 0°≈	0°43'28 0°33'50 0°34'49	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51	15° Π05'27 10° Π11'47 10° Π00'59 5° Π11'11 22° Π45'25 25° Π05'51 25° Π35'53 25° Π35'52 28° Π26'05 0° \$\mathref{0}\$ 16° \$\mathref{0}\$5'59	4.42658 AU 6.35934 AU -0°24'41 0°25'44
direct evening set conjunction minimum elong max. Earth dist. morning rise	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57	6°♂26'46 6°♂13'30 1°♂15'45 20°♂15'10 23°♂20'51 23°♂20'51 23°♂54'08 26°♂26'17 0°≈ 15°≈	0°43'28 0°33'50 0°34'49	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51 13621 Dec 20 06:23	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° 9 16° 905'59 11° 912'13	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39
direct evening set conjunction minimum elong max. Earth dist.	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13	6°ට 26'46 6°ට 13'30 1°ට 15'45 20°ට 15'10 23°ට 20'51 23°ට 20'51 23°ට 20'51 23°ට 26'17 0°≈ 15°≈ 15°≈01'06	0°43'28 0°33'50 0°34'49	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51 13621 Dec 20 06:23 13621 Dec 21 22:54	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° 9 16° 905'59 11° 912'13 10° 959'09	4.42658 AU 6.35934 AU -0°24'41 0°25'44
direct evening set conjunction minimum elong max. Earth dist. morning rise	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13 13616 May 24 08:03	6°ට 26'46 6°ට 13'30 1°ට 15'45 20°ට 15'10 23°ට 20'51 23°ට 20'51 23°ට 20'51 23°ට 26'17 0°≈ 15°≈ 15°≈ 01'06 15°R≈	0°43'28 0°33'50 0°34'49 6.16242 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° © 16° ©05'59 11° ©12'13 10° ©59'09 6° ©12'26	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13 13616 May 24 08:03 13616 Jul 18 19:02	6°ට 26'46 6°ට 13'30 1°ට 15'45 20°ට 15'10 23°ට 20'51 23°ට 20'51 23°ට 20'51 23°ට 26'17 0°≈ 15°≈ 15°≈ 01'06 15°R≈ 10°≈09'51	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° © 16° ©05'59 11° ©12'13 10° ©59'09 6° ©12'26 24° ©34'05	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03	6°ට 26'46 6°ට 13'30 1°ට 15'45 20°ට 15'10 23°ට 20'51 23°ට 20'51 23°ට 54'08 26°ට 26'17 0°≈ 15°≈ 15°≈ 10°≈01'06 15° ඇක 10°≈09'51 9°≈58'51	0°43'28 0°33'50 0°34'49 6.16242 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° © 16° ©05'59 11° ©12'13 10° ©59'09 6° ©12'26	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03 13616 Sep 18 05:07	6°ට 26'46 6°ට 13'30 1°ට 15'45 20°ට 15'10 23°ට 20'51 23°ට 20'51 23°ට 20'51 23°ට 26'17 0°≈ 15°≈ 15°≈ 01'06 15°R≈ 10°≈09'51	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 05 22:30	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° 9 16° 905'59 11° 912'13 10° 959'09 6° 912'26 24° 934'05 26° 959'48	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03	6°♂26'46 6°♂13'30 1°♂15'45 20°♂15'10 23°♂20'51 23°♂20'51 23°♂54'08 26°♂26'17 0°≈ 15°≈ 15°≈01'06 15°R≈ 10°≈09'51 9°≈58'51 4°≈59'27	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Jun 26 02:44 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 05 22:30	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° © 16° ©05'59 11° ©12'13 10° ©59'09 6° ©12'26 24° ©34'05 26° ©59'48 27° ©31'34	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU -0°34'43
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03 13616 Sep 18 05:07	6°ට 26'46 6°ට 13'30 1°ට 15'45 20°ට 15'10 23°ට 20'51 23°ට 20'51 23°ට 54'08 26°ට 26'17 0°≈ 15°≈ 15°≈ 10°≈09'51 9°≈58'51 4°≈59'27	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 05 22:30	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° 9 16° 905'59 11° 912'13 10° 959'09 6° 912'26 24° 934'05 26° 959'48	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU -0°34'43
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03 13616 Sep 18 05:07 13616 Dec 14 14:30	6°♂26'46 6°♂13'30 1°♂15'45 20°♂15'10 23°♂20'51 23°♂20'51 23°♂54'08 26°♂26'17 0°≈ 15°≈ 15°≈01'06 15°R≈ 10°≈09'51 9°≈58'51 4°≈59'27	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Jun 26 02:44 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 05 22:30	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° © 16° ©05'59 11° ©12'13 10° ©59'09 6° ©12'26 24° ©34'05 26° ©59'48 27° ©31'34	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU -0°34'43
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03 13616 Sep 18 05:07 13616 Dec 14 14:30	6°♂26'46 6°♂13'30 1°♂15'45 20°♂15'10 23°♂20'51 23°♂20'51 23°♂54'08 26°♂26'17 0°≈ 15°≈ 15°≈01'06 15°R≈ 10°≈09'51 9°≈58'51 4°≈59'27	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Jun 26 02:44 13621 Dec 20 06:23 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 05 22:30 13622 Jul 08 05:37 13622 Jul 08 05:36	15° M05'27 10° M11'47 10° M00'59 5° M11'11 22° M45'25 25° M05'51 25° M35'53 25° M35'52 28° M26'05 0° © 16° ©05'59 11° ©12'13 10° ©59'09 6° ©12'26 24° ©34'05 26° ©59'48 27° ©31'34 27° ©31'34	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU -0°34'43
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 20 04:03 13616 Sep 18 05:07 13616 Dec 14 14:30 13617 Jan 22 01:40	6°\overline{326'46} 6°\overline{313'30} 1°\overline{315'45} 20°\overline{315'10} 23°\overline{320'51} 23°\overline{320'51} 23°\overline{320'51} 23°\overline{320'51} 0°\implie{150'\implie{300'50'51}} 15°\implie{300'50'51} 9°\implie{350'50'51} 4°\implie{350'27} 15°\implie{300'50'51} 23°\implie{300'51}	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU 0°53'07	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min min elong	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Jun 26 02:44 13621 Dec 20 06:23 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 08 05:37 13622 Jul 08 05:36 13622 Jul 18 23:19	15° Π05'27 10° Π11'47 10° Π00'59 5° Π11'11 22° Π45'25 25° Π05'51 25° Π35'52 28° Π26'05 0° Θ 16° Θ05'59 11° Θ12'13 10° Θ59'09 6° Θ12'26 24° Θ34'05 26° Θ59'48 27° Θ31'34 27° Θ31'34 0° Ω	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU -0°34'43
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	13615 Jun 15 17:15 13615 Jun 17 08:28 13615 Aug 15 04:45 13615 Dec 19 20:41 13616 Jan 02 09:21 13616 Jan 02 09:21 13616 Jan 04 19:27 13616 Jan 15 22:11 13616 Jan 31 20:24 13616 May 17 15:57 13616 May 21 00:13 13616 May 24 08:03 13616 Jul 18 19:02 13616 Jul 18 19:02 13616 Sep 18 05:07 13616 Dec 14 14:30 13617 Jan 22 01:40	6°る26'46 6°る13'30 1°る15'45 20°る15'10 23°る20'51 23°る20'51 23°る26'17 0°≈ 15°≈ 15°≈01'06 15°8≈ 10°≈09'51 9°≈58'51 4°≈59'27 15°≈ 23°≈03'51	0°43'28 0°33'50 0°34'49 6.16242 AU 4.25064 AU 0°53'07	opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min min elong	13620 Sep 17 23:52 13620 Nov 18 02:14 13620 Nov 19 12:00 13621 Jan 19 10:01 13621 May 24 08:22 13621 Jun 03 22:29 13621 Jun 06 04:35 13621 Jun 06 04:34 13621 Jun 18 23:41 13621 Jun 26 02:44 13621 Oct 20 13:51 13621 Dec 20 06:23 13621 Dec 21 22:54 13622 Feb 19 20:25 13622 Jun 25 08:45 13622 Jul 05 22:30 13622 Jul 08 05:36 13622 Jul 08 05:36 13622 Jul 18 23:19 13622 Jul 21 02:22	15° Π05'27 10° Π11'47 10° Π00'59 5° Π11'11 22° Π45'25 25° Π05'51 25° Π35'52 28° Π26'05 0° Θ 16° Θ05'59 11° Θ12'13 10° Θ59'09 6° Θ12'26 24° Θ34'05 26° Θ59'48 27° Θ31'34 27° Θ31'34 0° Ω 0° Ω29'19	4.42658 AU 6.35934 AU -0°24'41 0°25'44 -0°45'39 4.27853 AU 6.19057 AU -0°34'43

	13623 Jan 19 08:11	15°R Ω		opposition	13628 Jul 24 17:01	14° ≈ 39'56	0°52'59
opposition	13623 Jan 23 20:55	14° Ω 24'33	-0°53'39	direct	13628 Sep 22 20:50	9° ≈ 40'21	0 020)
min. Earth dist.	13623 Jan 25 05:40	14°Ω13'50			13628 Nov 23 03:39	15° ≈	
direct	13623 Mar 25 03:57	9° Ω 26'27		evening set	13629 Jan 26 16:41	27° ≈ 39'17	
	13623 May 25 09:31	15° Ω		C	13629 Feb 06 09:22	0°) €	
evening set	13623 Jul 29 14:03	28° Ω 45′06					
C	13623 Aug 03 19:56	0° ™		conjunction	13629 Feb 09 01:30	0° ¥ 35'16	0°34'11
max. Earth dist.	13623 Aug 10 02:53	1°Mp30'16	6.01940 AU	minimum elong	13629 Feb 09 01:31	0°) 35′16	0°34'47
				max. Earth dist.	13629 Feb 10 15:01	0° ¥ 55'53	6.35243 AU
conjunction	13623 Aug 11 14:31	1° m 51'36	-0°33'42	morning rise	13629 Feb 22 09:27	3°) € 30'34	
minimum elong	13623 Aug 11 14:32	1° m 51'37	0°34'18	retrograde	13629 Jun 25 07:25	20° ¥ 52'43	
morning rise	13623 Aug 24 15:51	4° m 58'55		min. Earth dist.	13629 Aug 24 08:49	15° ¥ 58'44	4.42115 AU
retrograde	13624 Jan 01 11:13	25° Mp 03'41		opposition	13629 Aug 25 00:51	15° ¥ 53′29	0°43'52
opposition	13624 Mar 01 00:29	20° Mp $06'40$	-0°42'38	direct	13629 Oct 25 10:20	10°) 53′03	
min. Earth dist.	13624 Mar 01 14:35	20°Mp01'59	3.95198 AU	evening set	13630 Feb 27 12:05	28° ¥ 12'06	
direct	13624 Apr 29 00:51	15° TD 10'33			13630 Mar 07 21:47	0° Y	
	13624 Aug 12 03:05	0∘ ⊽					
evening set	13624 Sep 03 04:26	5° ≏ 15'21		conjunction	13630 Mar 12 16:38	1° Y ′01′38	0°23'56
				minimum elong	13630 Mar 12 16:39	1° Y ′01'39	0°24'02
conjunction	13624 Sep 16 10:45	8° ≏ 29'53		max. Earth dist.	13630 Mar 13 01:37	1° Y ′06′27	6.47342 AU
minimum elong	13624 Sep 16 10:46	8° ≏ 29'53		morning rise	13630 Mar 25 19:48	3° Y 50′21	
max. Earth dist.	13624 Sep 16 09:15	8° ≏ 28'57	5.90786 AU	retrograde	13630 Jul 24 23:33	20° Y 33'39	
morning rise	13624 Sep 29 18:47	11° ≏ 45'30		opposition	13630 Sep 24 01:14	15° Ƴ 37'09	0°23'33
	13624 Dec 29 22:51	0° ™		min. Earth dist.	13630 Sep 24 04:32	15° Y 36′05	4.50490 AU
retrograde	13625 Feb 08 11:06	2°M36'25		direct	13630 Nov 25 06:32	10° ℃ 36'19	
	13625 Mar 21 03:37	30° ₹ Ω		evening set	13631 Mar 29 22:57	27° Y 37′58	
opposition	13625 Apr 08 16:23	27° Ω 36'26			13631 Apr 10 01:56	0°B	
min. Earth dist.	13625 Apr 08 04:03		3.89133 AU		12(21 4 11 22 20	00 40 410 4	0007120
direct	13625 Jun 05 18:24	22° Ω 41'18		conjunction	13631 Apr 11 23:39	0° 8 24'24	0°07'39
1	13625 Aug 14 02:47	0°M,		minimum elong	13631 Apr 11 23:39	0° 8 24'25	0°07'13
asc. node	13625 Sep 12 20:40	6°M14'19		behind sun begin	13631 Apr 11 16:17	0° 8 20'30 0° 8 28'19	
evening set	13625 Oct 11 08:40 13625 Oct 19 16:23	12°M58'22 15°M		behind sun end max. Earth dist.	13631 Apr 12 07:01	0° 8 14'23	6.51435 AU
	13023 Oct 19 10.23	13 116			13631 Apr 11 04:51	3° 8 10'01	0.31433 AU
conjunction	13625 Oct 24 20:08	16°M15'36	0°02'23	morning rise	13631 Apr 24 22:25 13631 Jun 26 12:41	15° 8	
minimum elong	13625 Oct 24 20:09	16°M15'37	0°03'04	retrograde	13631 Aug 23 15:11	19° 8 44'33	
behind sun begin	13625 Oct 24 11:49	16°M 10'33	0 03 04	desc. node	13631 Sep 20 16:16	18° 8 33'07	
behind sun end	13625 Oct 25 04:28	16°M20'40		dese. Hode	13631 Oct 22 13:05	15°RK	
max. Earth dist.	13625 Oct 26 07:02	16°M36'55	5.90435 AU	opposition	13631 Oct 22 13:03 13631 Oct 23 20:09	14° 8 50'04	-0°02'22
morning rise	13625 Nov 07 09:44	19°M33'49	3.70433710	min. Earth dist.	13631 Oct 24 18:03	14° 8 43'03	4.50138 AU
morning rise	13625 Dec 23 02:37	0° ⊼		direct	13631 Dec 25 09:17	9° 8 49'13	1.50150110
retrograde	13626 Mar 18 15:35	10° х 15'19			13632 Feb 25 09:33	15° 8	
opposition	13626 May 16 23:06	5° х 12′38	0°21'06	evening set	13632 Apr 28 00:31	26° 8 57'45	
min. Earth dist.	13626 May 15 14:21	5° ₹ 23'45	3.94604 AU	max. Earth dist.	13632 May 09 02:46	29° 8 21'19	6.46605 AU
direct	13626 Jul 14 02:19	0° ∡ 16'33			•		
evening set	13626 Nov 18 09:57	20° ∡ 04'29		conjunction	13632 May 10 21:57	29° 8 44'42	-0°10'43
•				minimum elong	13632 May 10 21:57	29° 8 44'42	0°11'34
conjunction	13626 Dec 01 23:46	23° ∡ 17'39	0°23'15	behind sun begin	13632 May 10 16:14	29° 8 41'37	
minimum elong	13626 Dec 01 23:45	23° ∡ 17'39	0°24'17	behind sun end	13632 May 11 03:41	29° 8 47'47	
max. Earth dist.	13626 Dec 04 10:08	23° ∡ °52'18	6.01090 AU		13632 May 12 02:13	$\Pi^{\circ}0$	
morning rise	13626 Dec 15 14:40	26° ₹ ³31′06		morning rise	13632 May 23 17:59	2° Ⅲ 31′07	
	13626 Dec 30 14:34	ರ∘ರ		retrograde	13632 Sep 22 10:39	19° Ⅱ 27'52	
retrograde	13627 Apr 23 11:53	16° る 13'45		opposition	13632 Nov 22 11:24	14° Ⅱ 34'13	-0°28'15
min. Earth dist.	13627 Jun 20 13:17	11° る 23'20	4.09174 AU	min. Earth dist.	13632 Nov 23 23:40		4.41106 AU
opposition	13627 Jun 22 04:01	11° る 10'15	0°45'50	direct	13633 Jan 23 18:50	9° Ⅱ 33'37	
direct	13627 Aug 20 03:15	6° る 12'17		evening set	13633 May 28 17:00	27° Ⅱ 12'46	
evening set	13627 Dec 24 18:06	25° පි 06'11		max. Earth dist.	13633 Jun 08 05:13	29° ∏ 32'47	6.33930 AU
		-					
conjunction	13628 Jan 07 06:29	28°る10'56	0°34'39	conjunction	13633 Jun 10 13:10	0°503'58	
minimum elong	13628 Jan 07 06:29	28°る10'56		minimum elong	13633 Jun 10 13:10	0° © 03'58	0°27'38
max. Earth dist.	13628 Jan 09 15:45	28°₹43'35	6.18117 AU		13633 Jun 10 06:02	0°9	
	13628 Jan 15 06:02	0°≈		morning rise	13633 Jun 23 08:19	2°954'58	
morning rise	13628 Jan 20 19:03	1°≈15'23		retrograde	13633 Oct 25 05:51	20°943'03	0047141
	13628 Mar 29 22:46	15° ≈		opposition	13633 Dec 24 22:05	15°949'07	
retrograde	13628 May 25 10:25	19° ≈ 41'58		min. Earth dist.	13633 Dec 26 13:43		4.25523 AU
	13628 Jul 22 04:46	15°R ≈		direct	13634 Feb 24 07:41	10° © 49'28	
min. Earth dist.	13628 Jul 23 08:26	1400050147	4.26971 AU	evening set	13634 Jun 29 23:40	29° © 18'37	

max. Earth dist.	13645 Jun 12 12:38	4° © 01'08	6.31468 AU	minimum elong max. Earth dist.	13650 Dec 12 12:19 13650 Dec 15 00:33	3°පි43'08 4°පි18'30	0°28'42 6.05687 AU
conjunction	13645 Jun 14 21:49	4° © 33'11	0020120	morning rise	13650 Dec 15 00.35	4 01830 6° る 54'12	0.03087 AU
minimum elong	13645 Jun 14 21:49	4 933 11 4°933'11	0°29'23	-		6 334 12 26°る14'40	
Č			0 29 23	retrograde	13651 May 03 01:30		4 1 4 4 1 5 4 7 7
morning rise	13645 Jun 27 17:10	7° © 25'15		min. Earth dist.	13651 Jun 30 08:03	21°る24'13	4.14415 AU
retrograde	13645 Oct 30 02:05	25°\$23'30	0040100	opposition	13651 Jul 01 22:25	21° る 11'18	0°49'41
opposition	13645 Dec 29 15:21	20°529'29		direct	13651 Aug 30 06:07	16° る 12'46	
min. Earth dist.	13645 Dec 31 07:40	20°5516'26	4.22730 AU		13651 Dec 12 16:22	0° ≈	
direct	13646 Feb 28 21:51	15° © 30'01		evening set	13652 Jan 03 14:05	4° ≈ 49'05	
	13646 Jun 16 10:34	0 \circ Ω					
evening set	13646 Jul 04 16:06	4° Ω 08'22		conjunction	13652 Jan 17 01:36	7° ≈ 51'04	0°35'39
max. Earth dist.	13646 Jul 15 09:57	6° Ω 38'12	6.13698 AU	minimum elong	13652 Jan 17 01:36	7° ≈ 51'04	0°36'33
		_		max. Earth dist.	13652 Jan 19 07:40	8° ≈ 21'31	6.23545 AU
conjunction	13646 Jul 17 13:50	7° Ω 08'27		morning rise	13652 Jan 30 12:50	10° ≈ 52'35	
minimum elong	13646 Jul 17 13:50	7° Ω 08'27	0°36'34		13652 Feb 18 08:15	15° ≈	
morning rise	13646 Jul 30 11:35	10° Ω 08'57		retrograde	13652 Jun 03 06:46	28° ≈ 57'36	
	13646 Aug 20 18:44	15° Ω		opposition	13652 Aug 02 17:27	23° ≈ 56′16	0°51'48
retrograde	13646 Dec 05 01:17	29° Ω 22'07		min. Earth dist.	13652 Aug 01 12:30	24° ≈ 05'52	4.32111 AU
opposition	13647 Feb 03 00:51	24° Ω 26'45	-0°52'35	direct	13652 Oct 02 06:34	18° ≈ 56′23	
min. Earth dist.	13647 Feb 04 05:46	24° Ω 17'16	4.04940 AU		13653 Jan 03 20:50	0° ∀	
direct	13647 Apr 03 22:28	19° Ω 29'13		evening set	13653 Feb 04 19:33	6°) 40′37	
	13647 Jun 29 18:38	0° m ⁄					
evening set	13647 Aug 08 15:24	9° ™ 04'41		conjunction	13653 Feb 18 03:03	9° ∺ 34'18	0°32'06
				minimum elong	13653 Feb 18 03:03	9° ∺ 34'18	0°32'34
conjunction	13647 Aug 21 17:22	12° m 13'57	-0°31'00	max. Earth dist.	13653 Feb 19 08:25	9° ¥ 50'18	6.39709 AU
minimum elong	13647 Aug 21 17:22	12° m 13'58	0°31'26	morning rise	13653 Mar 03 09:37	12°) €27'15	
max. Earth dist.	13647 Aug 20 13:02	11° m 56'50	5.97505 AU	retrograde	13653 Jul 03 16:09	29°) 34′25	
morning rise	13647 Sep 03 20:40	15° m 24'12		opposition	13653 Sep 02 12:48	24°) €35'58	0°38'58
	13647 Nov 10 23:46	0∘ ⊽		min. Earth dist.	13653 Sep 02 02:31	24° ¥ 39'19	4.45619 AU
retrograde	13648 Jan 12 09:44	5° ≏ 48'10		direct	13653 Nov 03 05:46	19° ¥ 35′21	
opposition	13648 Mar 11 19:59	0° ჲ 50'20	-0°35'52		13654 Feb 02 22:31	0° Y	
min. Earth dist.	13648 Mar 12 02:19	0° ჲ 48'13	3.91975 AU	evening set	13654 Mar 08 02:26	6° Ƴ 46'00	
	13648 Mar 18 03:24	30°₽ ™		C			
direct	13648 May 09 11:39	25° m 54'39		conjunction	13654 Mar 21 05:51	9° Ƴ 34'12	0°19'46
	13648 Jun 29 03:26	$0 \circ \overline{\mathbf{v}}$		minimum elong	13654 Mar 21 05:51	9° Ƴ 34'13	0°19'41
evening set	13648 Sep 13 21:07	16° £ 08'49		max. Earth dist.	13654 Mar 21 06:35	9° Ƴ 34'36	6.49643 AU
3				morning rise	13654 Apr 03 07:38	12° Y ′21'33	
conjunction	13648 Sep 27 05:15	19° Ω 25'01	-0°14'04	retrograde	13654 Aug 02 04:01	28° Y ′58'38	
minimum elong	13648 Sep 27 05:15	19° Ω 25'01		opposition	13654 Oct 02 08:04	24° Y ′02'48	0°16'34
behind sun begin	13648 Sep 27 00:52	19° ≏ 22'20		min. Earth dist.	13654 Oct 02 17:01	23° Y ′59'55	4.51470 AU
behind sun end	13648 Sep 27 09:38	19° £ 27'42		direct	13654 Dec 03 17:03	19° Υ '01'55	
max. Earth dist.	13648 Sep 27 15:49	19° £ 31'30	5.89133 AU		13655 Mar 08 19:37	0°8	
morning rise	13648 Oct 10 15:05	22° Ω 42'17	3.07133710	evening set	13655 Apr 07 07:49	6° 8 02'39	
morning not	13648 Nov 10 12:15	0°M		max. Earth dist.	13655 Apr 19 04:32	8° 8 34'26	6.51009 AU
retrograde	13649 Feb 19 12:01	13°M37'56		man zarur dige.	15000 11p1 17 0 1.52	0 05.20	0.01007110
opposition	13649 Apr 19 15:50	8°M37'03	-0°03'33	conjunction	13655 Apr 20 07:31	8° 8 48'52	0°02'31
min. Earth dist.	13649 Apr 18 20:52	8°M43'28	3.89275 AU	minimum elong	13655 Apr 20 07:30	8° 8 48'52	0°01'58
asc. node	13649 May 28 20:49	4°M18'16	3.07273710	behind sun begin	13655 Apr 19 23:29	8° 8 44'36	0 01 30
direct	13649 Jun 16 16:29	3°M41'50		behind sun end	13655 Apr 20 15:31	8° 8 53'08	
	13649 Sep 13 17:06	15° ™		morning rise	13655 May 03 05:21	11° 8 34'18	
evening set	13649 Oct 22 06:02	23°M55'12		morning rise	13655 May 19 14:13	15° 8	
evening see	13013 001 22 00.02	23 11033 12		desc. node	13655 Jun 13 16:26	19° 8 53'52	
conjunction	13649 Nov 04 18:35	27°M12'01	0°08'54	retrograde	13655 Sep 01 01:39	28° 8 12'05	
minimum elong	13649 Nov 04 18:35	27°M12'01	0°09'44	opposition	13655 Nov 01 05:57	23° 8 17'58	0°00'54
behind sun begin	13649 Nov 04 11:45	27°M07'53	0 07 44	min. Earth dist.	13655 Nov 02 09:21	23° 8 09'13	4.48329 AU
behind sun end	13649 Nov 05 01:26	27°M16'10		direct	13656 Jan 02 19:34	18° 8 17'08	1.70 <i>32) A</i> U
max. Earth dist.	13649 Nov 06 15:39	27°M39'22	5.92343 AU	direct	13656 Apr 10 00:30	0°Ⅱ	
man. Darm Wist.	13649 Nov 16 07:53	27 1163922 0° √ 1	J./2JTJ AU	evening set	13656 May 06 11:22	5° П 32'31	
morning rise	13649 Nov 18 09:02	0° x ¹29'37		max. Earth dist.	13656 May 17 07:01	7° Ц 53'34	6.43506 AU
•		20° x '29' 3 /		max. Latui Uist.	13030 May 1/ 0/.01	/ щэээ4	0.43300 AU
retrograde min. Earth dist.	13650 Mar 29 02:17		3.98049 AU	conjunction	13656 May 10 00:17	8° Ⅲ 20′25	0015127
	13650 May 25 23:03	16° ₹ 07'44		conjunction	13656 May 19 08:17		
opposition	13650 May 27 12:03	15° 尽 55'11 10° 尽 58'38	0°29'42	minimum elong	13656 May 19 08:16	8° Ⅱ 20′24	0 1033
direct	13650 Jul 24 18:25	0°る。		morning rise	13656 Jun 01 03:56	11° Ⅱ 07'52	
ovening set	13650 Nov 26 15:29			retrograde	13656 Oct 01 09:15	28° Ⅱ 17'18	0024140
evening set	13650 Nov 28 22:45	0° る 32'14		opposition	13656 Dec 01 07:51	23° Ⅱ 23'41	
	12650 D 12 12 22	20742100	0027140	min. Earth dist.	13656 Dec 02 22:27	23° Ⅱ 11'18 18° Ⅱ 23'16	4.36886 AU
conjunction	13650 Dec 12 12:20	3°₹43'09	0 2/40	direct	13657 Feb 01 10:14	16 Щ23 16	

	13657 May 08 11:28	0° ©		opposition	13662 Jun 01 14:21	21° 尽 07'08	0°33'26
evening set	13657 Jun 06 13:27	6° © 16'22		direct	13662 Jul 30 00:56	16° ∡ 10'18	
max. Earth dist.	13657 Jun 17 00:54	8° © 37'32	6.28885 AU		13662 Nov 09 10:59	0°る	
	12657 1 10 00 40	00500127	0020150	evening set	13662 Dec 04 00:31	5° る 34'54	
conjunction	13657 Jun 19 09:48 13657 Jun 19 09:47	9° 5 09'37 9° 5 09'36		agnismation	13662 Dec 17 14:01	8° る 44'30	0°29'27
minimum elong morning rise	13657 Jul 19 09.47 13657 Jul 02 05:15	9 \$0936 12°\$02'47	0 31 00	conjunction minimum elong	13662 Dec 17 14:01 13662 Dec 17 14:00	8°る44'29	0°2927 0°30'31
morning rise	13657 Oct 23 23:27	12 3 0247 0° Ω		max. Earth dist.	13662 Dec 20 03:26	9° る 20'19	6.08397 AU
retrograde	13657 Nov 04 00:03	0° Ω 11'33		morning rise	13662 Dec 31 04:08	11°る54'06	0.00377 AC
retrograde	13657 Nov 15 01:21	30°Rூ		morning rise	13663 Apr 12 03:25	0°≈	
opposition	13658 Jan 03 11:54	25°917'28	-0°50'58	retrograde	13663 May 07 15:22	1°≈02'39	
min. Earth dist.	13658 Jan 05 02:57	25°504'49	4.19992 AU	renograde	13663 Jun 01 23:19	30°Rる	
direct	13658 Mar 05 13:13	20°5018'20		min. Earth dist.	13663 Jul 05 00:31	26° ප 12'17	4.17199 AU
	13658 May 29 02:15	$0^{\circ}\Omega$		opposition	13663 Jul 06 14:26	25° る 59'34	0°50'58
evening set	13658 Jul 09 12:08	9° Ω 05'41		direct	13663 Sep 04 01:50	21° る 00'52	
max. Earth dist.	13658 Jul 20 08:30	11° Ω 37'57	6.11045 AU		13663 Nov 24 07:06	0° ≈	
				evening set	13664 Jan 08 07:01	9° ≈ 28'30	
conjunction	13658 Jul 22 10:13	12° Ω 07'07	-0°35'47				
minimum elong	13658 Jul 22 10:13	12° Ω 07′07	0°36'38	conjunction	13664 Jan 21 17:50	12° ≈ 29′07	0°35'47
	13658 Aug 03 17:10	15° Ω		minimum elong	13664 Jan 21 17:50	12° ≈ 29′07	0°36'37
morning rise	13658 Aug 04 08:43	15° Ω 09'05		max. Earth dist.	13664 Jan 23 19:10	12° ≈ 56'46	6.26160 AU
	13658 Oct 16 02:15	0° ™			13664 Feb 01 23:50	15° ≈	
retrograde	13658 Dec 10 10:32	4° Mp 33′46		morning rise	13664 Feb 04 04:34	15° ≈ 29'18	
	13659 Feb 05 12:44	30° R Ω			13664 Apr 20 17:14	0° ∀	
opposition	13659 Feb 08 07:11	29° Ω 38′08		retrograde	13664 Jun 07 13:42	3° ¥ 24'42	
min. Earth dist.	13659 Feb 09 09:15		4.02624 AU		13664 Jul 25 16:49	30° R ≈	
direct	13659 Apr 09 00:35	24° Ω 40'57		min. Earth dist.	13664 Aug 05 23:37	28° ≈ 32'15	4.34366 AU
	13659 Jun 07 04:28	0° ™		opposition	13664 Aug 07 01:11	28° ≈ 23'48	0°50'47
evening set	13659 Aug 13 19:50	14° m 23'42		direct	13664 Oct 06 19:05	23°≈23'45	
	12650 1 26 22 15	1.770 7 2.411 2	000011.5		13664 Dec 15 10:34	0°) {	
conjunction	13659 Aug 26 22:47	17° Mp 34'12		evening set	13665 Feb 09 04:52	11°) €02'14	
minimum elong	13659 Aug 26 22:48	17° Mp 34'12			12665 E-1- 22 11.50	1201/55102	0920150
max. Earth dist.	13659 Aug 26 01:04	17° Mp 21'01	5.95793 AU	conjunction	13665 Feb 22 11:58	13° ¥ 55′02 13° ¥ 55′03	0°30'50 0°31'14
morning rise	13659 Sep 09 02:53 13659 Oct 19 06:54	20° Mp 45'39 0° <u>₽</u>		minimum elong max. Earth dist.	13665 Feb 22 11:58 13665 Feb 23 14:13	13° X 33°03 14° ¥ 09'17	6.41456 AU
retrograde	13660 Jan 17 23:45	0 <u></u> 11° - 216'44		morning rise	13665 Mar 07 17:44	14 ★0917 16° 米 47'02	0.41430 AU
opposition	13660 Mar 17 08:15	6° £ 18'33	-0°31'58	morning risc	13665 May 17 10:44	0° Υ	
min. Earth dist.	13660 Mar 17 10:50	6° ⊆ 17'41	3.91092 AU	retrograde	13665 Jul 07 17:28	3° Υ 48'43	
direct	13660 May 14 20:23	1° ⊆ 23'09	3.71072710	retrograde	13665 Aug 28 16:51	30°R ₩	
evening set	13660 Sep 19 07:12	21° Ω 38'50		opposition	13665 Sep 06 15:51	28°) 50'44	0°36'20
	p			min. Earth dist.	13665 Sep 06 07:41	28°) 53'23	4.46775 AU
conjunction	13660 Oct 02 15:54	24° £ 55'21	-0°10'58	direct	13665 Nov 07 10:27	23°) € 50'06	
minimum elong	13660 Oct 02 15:55	24° ≏ 55'21			13666 Jan 14 11:49	0° Υ	
behind sun begin	13660 Oct 02 09:28	24° £ 51'25		evening set	13666 Mar 12 07:28	10° Y 58'39	
behind sun end	13660 Oct 02 22:21	24° ≏ 59'17		-			
max. Earth dist.	13660 Oct 03 07:18	25° ≏ 04'47	5.89164 AU	conjunction	13666 Mar 25 10:17	13° Y '46'27	0°17'35
morning rise	13660 Oct 16 02:40	28° ≙ 12'58		minimum elong	13666 Mar 25 10:18	13° Y '46'27	0°17'26
	13660 Oct 23 11:15	0° M		max. Earth dist.	13666 Mar 25 06:05	13° Y '44'12	6.50139 AU
	13661 Jan 04 09:15	15°M		morning rise	13666 Apr 07 11:34	16° Ƴ 33'26	
retrograde	13661 Feb 24 20:51	19° M 06'47			13666 Jun 20 14:59	0° 8	
asc. node	13661 Apr 09 08:12	16°M09'35		retrograde	13666 Aug 06 07:42	3° 8 09'37	
	13661 Apr 18 08:23	15°RM			13666 Sep 22 09:23	30° ₹Ƴ	
min. Earth dist.	13661 Apr 24 02:59	14°M13'22	3.90239 AU	opposition	13666 Oct 06 10:53	28° Y 14′08	0°13'02
opposition	13661 Apr 25 02:14	14°M05'30	0°01'27	min. Earth dist.	13666 Oct 06 23:30	28° Y 10′05	4.51299 AU
direct	13661 Jun 22 02:19	9°M10'12		direct	13666 Dec 07 21:54	23° Y 13'15	
	13661 Aug 22 09:07	15°M			13667 Feb 17 22:55	0°8	
evening set	13661 Oct 27 15:00	29°M18'25		evening set	13667 Apr 11 11:59	10° 8 15'30	
	13661 Oct 30 12:06	0° ∡		desc. node	13667 Apr 22 19:47	12° 8 40'43	6 50100 ATT
conjunction	13661 Nov. 10, 02.50	2° ∡ ³34'29	0°11'58	max. Earth dist.	13667 Apr 23 03:52	12° 8 45'03	6.50182 AU
conjunction minimum elong	13661 Nov 10 03:50 13661 Nov 10 03:49	2° × '34'29 2° × '34'29	0°11'58 0°12'51	conjunction	13667 Apr 24 11:15	13° 8 01'52	-0.00,06
behind sun begin	13661 Nov 10 03:49 13661 Nov 09 22:42	2° x '34'29 2° x '31'24	0 12 31	minimum elong	13667 Apr 24 11:15	13° 8 01'52	
behind sun begin	13661 Nov 10 08:56	2° x 31 24 2° x 37'33		behind sun begin	13667 Apr 24 11.14 13667 Apr 24 03:14	13 8 01 32	0 00 44
max. Earth dist.	13661 Nov 12 03:59	3° ₹ 03'36	5.94124 AU	behind sun end	13667 Apr 24 19:15	13° 8 06'08	
morning rise	13661 Nov 23 18:24	5° ₹ '51'15	2., .12.110	Somia san ona	13667 May 03 15:47	15°8	
retrograde	13662 Apr 03 02:57	26° ₹ 10'30		morning rise	13667 May 07 08:48	15° 8 47'30	
min. Earth dist.	13662 May 31 01:11		4.00414 AU	<i>5</i> 3-	13667 Jul 26 06:41	0°Ⅱ	
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retrograde	13667 Sep 05 07:58	2° Ⅱ 28'48		asc. node	13673 Feb 19 16:55	24° M .16'51	
C	13667 Oct 16 15:40	30° ₹ 8		retrograde	13673 Mar 02 04:17	24°M27'56	
opposition	13667 Nov 05 11:55	27° 8 34'47	-0°13'35	min. Earth dist.	13673 Apr 29 08:46	19°MJ34'41	3.91143 AU
min. Earth dist.	13667 Nov 06 16:40	27° 8 25'35	4.46919 AU	opposition	13673 Apr 30 09:41	19°M26'14	0°06'23
direct	13668 Jan 06 23:49	22° 8 33'57			13673 Jun 10 14:37	15°RM	
	13668 Mar 22 09:40	Π °0		direct	13673 Jun 27 10:54	14°M30'46	
evening set	13668 May 10 18:09	9° Ⅱ 54'10			13673 Jul 14 06:42	15° M ₊	
max. Earth dist.	13668 May 21 13:28	12° Ⅱ 15'35	6.41616 AU		13673 Oct 13 11:59	0° ∡ ¹	
				evening set	13673 Nov 01 21:14	4° ∡ ³34'21	
conjunction	13668 May 23 15:02	12° Ⅱ 42'43	-0°17'56				
minimum elong	13668 May 23 15:01	12° Ⅱ 42'43	0°18'54	conjunction	13673 Nov 15 10:27	7° ∡ ¹49'49	0°14'55
morning rise	13668 Jun 05 10:23	15° Ⅱ 30'49		minimum elong	13673 Nov 15 10:27	7° ∡¹ 49'49	0°15'50
	13668 Aug 23 10:57	0 \circ		behind sun begin	13673 Nov 15 09:31	7° ∡ ¹49'16	
retrograde	13668 Oct 05 22:48	2° 95 47'32		behind sun end	13673 Nov 15 11:22	7° ∡ 50′22	
	13668 Nov 18 21:25	30°RⅡ		max. Earth dist.	13673 Nov 17 14:40	8° ∡ 121'15	5.95680 AU
opposition	13668 Dec 05 20:15	27° I 53'56		morning rise	13673 Nov 29 01:08	11° ₹ 05'52	
min. Earth dist.	13668 Dec 07 11:29	27° Ⅱ 41'20	4.34639 AU		13674 Mar 11 00:42	0°る	
direct	13669 Feb 05 19:45	22° Ⅱ 53'40		retrograde	13674 Apr 08 02:04	1°る16'41	
. ,	13669 Apr 19 03:17	0°95		: T 41 11 4	13674 May 05 23:14	30°R. ₹	4.02447.411
evening set	13669 Jun 11 01:47	10°953'50	C 2C420 ATT	min. Earth dist.	13674 Jun 05 00:10	26° ₹ 26'14	4.02447 AU
max. Earth dist.	13669 Jun 21 12:39	13° © 15'31	6.26439 AU	opposition direct	13674 Jun 06 14:27	26° ₹ 13'16 21° ₹ 16'12	0°36'54
conjunction	13669 Jun 23 22:05	13° © 48'05	0°21'22	direct	13674 Aug 04 03:14 13674 Oct 21 09:18	21 x ·1612	
minimum elong	13669 Jun 23 22:05	13°9548'04		evening set	13674 Oct 21 09.18 13674 Dec 09 01:14	0 3 10° る 33'24	
morning rise	13669 Jul 06 17:57	16°9542'23	0 32 23	evening set	130/4 DCC 09 01.14	10 03324	
morning risc	13669 Sep 11 02:04	0°Ω		conjunction	13674 Dec 22 14:21	13° ⋜ 41'48	0°31'02
retrograde	13669 Nov 08 23:24	5° Ω 01'05		minimum elong	13674 Dec 22 14:21 13674 Dec 22 14:20	13° ठ 41'48	0°32'05
opposition	13670 Jan 08 09:01	0°Ω06'46	-0°52'06	max. Earth dist.	13674 Dec 25 01:48	14° る 16'18	6.10694 AU
оррожион	13670 Jan 09 05:49	30° ₹ 55	0 02 00	morning rise	13675 Jan 05 04:18	16° ප 50'13	0.1009 1110
min. Earth dist.	13670 Jan 09 22:39	29°954'32	4.17513 AU		13675 Mar 10 01:38	0° ≈	
direct	13670 Mar 10 06:30	25°907'47		retrograde	13675 May 12 05:04	5°≈48'40	
	13670 May 06 19:00	0°N		min. Earth dist.	13675 Jul 09 17:29	0°≈57'59	4.19537 AU
evening set	13670 Jul 14 07:38	14° Ω 02'49		opposition	13675 Jul 11 05:52	0° ≈ 45'47	0°51'56
-	13670 Jul 18 09:15	15° Ω		••	13675 Jul 16 23:00	30°Ŗ₹	
max. Earth dist.	13670 Jul 25 08:53	16° Ω 38'40	6.08749 AU	direct	13675 Sep 08 21:26	25° ⋜ 46'49	
					13675 Nov 01 07:15	0° ≈	
conjunction	13670 Jul 27 06:21	17° Ω 05′29	-0°35'38	evening set	13676 Jan 13 00:00	14°≈07'30	
minimum elong	13670 Jul 27 06:22	17° Ω 05′29	0°36'25		13676 Jan 16 22:33	15° ≈	
morning rise	13670 Aug 09 05:20	20° Ω 08'41					
	13670 Sep 22 16:14	0° m		conjunction	13676 Jan 26 10:34	17° ≈ 07'03	0°35'41
retrograde	13670 Dec 15 17:37	9° ™ 43'08		minimum elong	13676 Jan 26 10:34	17° ≈ 07'03	0°36'29
opposition	13671 Feb 13 12:20	4° m)47'11		max. Earth dist.	13676 Jan 28 10:19	17° ≈ 33'41	6.28367 AU
min. Earth dist.	13671 Feb 14 11:51	4° Mp 39'26	4.00721 AU	morning rise	13676 Feb 08 20:32	20°≈06'01	
	13671 Apr 04 04:22	30°R€			13676 Mar 27 22:17	0° ∺	
direct	13671 Apr 14 01:08	29° Ω 50'17		retrograde	13676 Jun 11 21:14	7° ¥ 53'14	
	13671 Apr 23 22:03	0° Mp		min. Earth dist.	13676 Aug 10 10:10	3° ₩ 00'37	4.36279 AU
evening set	13671 Aug 18 22:58	19° Mp 38'35	5.04444.431	opposition	13676 Aug 11 09:57	2° 升 52'47	0°49'27
max. Earth dist.	13671 Aug 31 08:15	22° m 38'57	5.94444 AU	direct	13676 Sep 03 19:03	30°R≈ 27°2052142	
conjunction	13671 Sep 01 02:30	22° m 50'03	0927116	direct	13676 Oct 11 07:02 13676 Nov 18 03:10	27°≈52'43 0°¥	
minimum elong	13671 Sep 01 02:30	22° m 50'03	0°27'31	evening set	13677 Feb 13 15:33	0 X 15° ¥ 26'26	
morning rise	13671 Sep 01 02.31 13671 Sep 14 07:39	26° Mp 02'34	0 2/31	evening set	130//160 13 13.33	13 /(2020	
morning risc	13671 Sep 30 21:46	ე∘ <u>ი</u>		conjunction	13677 Feb 26 21:54	18° ₩ 18'24	0°29'21
retrograde	13672 Jan 23 08:46	0 — 16° ≏ 39'03		minimum elong	13677 Feb 26 21:55	18°) 18'24	0°29'40
opposition	13672 Mar 22 17:30	11° ⊆ 40'23	-0°27'48	max. Earth dist.	13677 Feb 27 19:02	18° ¥ 29'50	6.42948 AU
min. Earth dist.	13672 Mar 22 15:37	11° ≙ 41'01	3.90459 AU	morning rise	13677 Mar 12 03:14	21°) (09'37	0.129.0110
direct	13672 May 20 02:53	6° £ 45'03			13677 Apr 24 22:47	0° Υ	
evening set	13672 Sep 24 14:35	27° ♀ 01'33		retrograde	13677 Jul 11 22:45	8° Ƴ 06'41	
Z .	13672 Oct 06 18:09	0° M ,		opposition	13677 Sep 10 21:07	3° Y 09′08	0°33'25
				min. Earth dist.	13677 Sep 10 16:13	3° Ƴ 10'43	4.47787 AU
conjunction	13672 Oct 08 00:03	0°M18'21	-0°07'49		13677 Oct 07 06:46	30° ₹	
minimum elong	13672 Oct 08 00:03	0°M18'21	0°07'23	direct	13677 Nov 11 18:41	28°) €08'31	
behind sun begin	13672 Oct 07 16:27	0°M13'42			13677 Dec 17 14:00	0° Υ	
behind sun end	13672 Oct 08 07:40	0°M22'59		evening set	13678 Mar 16 14:10	15° Ƴ 15′10	
max. Earth dist.	13672 Oct 08 20:53	0°MJ31'07	5.89312 AU				
morning rise	13672 Oct 21 11:26	3°M36'11		conjunction	13678 Mar 29 16:36	18° Ƴ 02'37	0°15'15
	13672 Dec 10 13:37	15° M ₊		minimum elong	13678 Mar 29 16:37	18° Ƴ 02'37	0°15'02

behind sun begin	13678 Mar 29 13:51	18° Ƴ 01'09		max. Earth dist.	13683 Sep 05 11:51	27° Mp 45'22	5.93307 AU
behind sun end	13678 Mar 29 19:23	18° Y ′04'06			•		
max. Earth dist.	13678 Mar 29 09:59	17° Y 59'06	6.50638 AU	conjunction	13683 Sep 06 01:05	27° m 53'25	-0°25'11
morning rise	13678 Apr 11 17:12	20° Ƴ 49'12		minimum elong	13683 Sep 06 01:06	27° m 53'26	0°25'19
	13678 May 28 02:01	9° 8			13683 Sep 14 16:49	0∘ ⊽	
retrograde	13678 Aug 10 10:55	7° 8 24'23		morning rise	13683 Sep 19 06:57	1° ≏ 06'50	
opposition	13678 Oct 10 15:27	2° 8 29'14	0°09'20	retrograde	13684 Jan 28 14:40	21° ≏ 48'21	
min. Earth dist.	13678 Oct 11 05:09	2° 8 24'51	4.51300 AU	opposition	13684 Mar 27 21:13	16° ≙ 49'19	-0°23'37
	13678 Oct 30 23:10	30° ₹ Υ		min. Earth dist.	13684 Mar 27 17:35	16° ≙ 50'32	3.89838 AU
direct	13678 Dec 12 02:09	27° Y ′28′29		direct	13684 May 25 05:20	11° ≙ 54'01	
	13679 Jan 23 09:07	9° 8			13684 Sep 20 15:09	0° M.	
desc. node	13679 Feb 27 03:05	5° 8 06'05		evening set	13684 Sep 29 16:45	2°M11'46	
evening set	13679 Apr 15 17:35	14° 8 31'29					
	13679 Apr 17 23:06	15° 8		conjunction	13684 Oct 13 02:59	5° ™ 28'57	-0°04'45
max. Earth dist.	13679 Apr 27 06:58	16° 8 59'55	6.49711 AU	minimum elong	13684 Oct 13 02:58	5°M28'56	0°04'14
				behind sun begin	13684 Oct 12 18:45	5°M23'55	
conjunction	13679 Apr 28 16:20	17° 8 17'50	-0°02'44	behind sun end	13684 Oct 13 11:10	5°M33'57	
minimum elong	13679 Apr 28 16:20	17° 8 17'50	0°03'26	max. Earth dist.	13684 Oct 14 04:04	5° M 44'19	5.89273 AU
behind sun begin	13679 Apr 28 08:23	17° 8 13'35		morning rise	13684 Oct 26 15:03	8°M47'06	
behind sun end	13679 Apr 29 00:16	17° 8 22'05			13684 Nov 21 20:04	15° ™	
morning rise	13679 May 11 13:26	20° 8 03'30		asc. node	13685 Jan 03 13:45	23°M42'58	
	13679 Jun 30 22:13	Π °0		retrograde	13685 Mar 07 06:28	29° M 37'45	
retrograde	13679 Sep 09 16:05	6° Ⅱ 47'08		min. Earth dist.	13685 May 04 08:24	24°M45'06	3.91709 AU
opposition	13679 Nov 09 19:03	1° Ⅱ 53′20	-0°17'14	opposition	13685 May 05 11:52	24°M35'48	0°11'02
min. Earth dist.	13679 Nov 11 01:59	1° ∏ 43′26	4.46009 AU	direct	13685 Jul 02 11:59	19°ML40'12	
	13679 Nov 24 22:21	30°R₩			13685 Sep 25 08:53	0° ∡ 7	
direct	13680 Jan 11 07:12	26° 8 52'38		evening set	13685 Nov 06 23:48	9° ∡ ′41′04	
	13680 Feb 27 06:14	Π $^{\circ}0$					
evening set	13680 May 15 00:50	14° Ⅱ 15'48		conjunction	13685 Nov 20 13:11	12° ∡ 56′07	0°17'38
max. Earth dist.	13680 May 25 17:25	16° Ⅲ 36′12	6.40328 AU	minimum elong	13685 Nov 20 13:10	12° ∡ 56′07	0°18'36
				max. Earth dist.	13685 Nov 22 17:54	13° ∡ ²27'45	5.96774 AU
conjunction	13680 May 27 21:20	17° Ⅱ 04'43		morning rise	13685 Dec 04 04:14	16° ∡ 11'44	
minimum elong	13680 May 27 21:19	17° ∏ 04'42	0°21'09		13686 Feb 06 18:28	0°ප	
morning rise	13680 Jun 09 16:38	19° ∏ 53'16		retrograde	13686 Apr 12 21:40	6° る 16'17	
	13680 Jul 29 13:17	0 \circ \odot		min. Earth dist.	13686 Jun 09 20:33	1° る 25'54	4.03941 AU
retrograde	13680 Oct 10 10:59	7° © 15'27		opposition	13686 Jun 11 11:19	1° る 12'46	0°39'59
opposition	13680 Dec 10 08:01	2° 5 21'47	-0°40'18		13686 Jun 20 12:42	30°₽ ⋌ 7	
min. Earth dist.	13680 Dec 11 22:57	2° 5 09'15	4.33044 AU	direct	13686 Aug 09 02:42	26° ₹ 15′23	
	13680 Dec 29 11:42	30°RⅡ			13686 Sep 27 04:33	8°0	
direct	13681 Feb 10 04:39	27° Ⅱ 21'39		evening set	13686 Dec 13 23:37	15° る 27'24	
	13681 Mar 24 13:22	0 \circ					
evening set	13681 Jun 15 12:00	15° © 26'41		conjunction	13686 Dec 27 12:48	18° る 35'00	0°32'22
max. Earth dist.	13681 Jun 26 00:56	17° © 50'03	6.24658 AU	minimum elong	13686 Dec 27 12:47	18° る 34'59	0°33'23
				max. Earth dist.	13686 Dec 30 00:50	19° る 09'41	6.12466 AU
conjunction	13681 Jun 28 08:27	18° 5 21'39	-0°32'35	morning rise	13687 Jan 10 02:19	21° る 42'26	
minimum elong	13681 Jun 28 08:27	18° © 21'39	0°33'37		13687 Feb 17 02:07	0° ≈	
morning rise	13681 Jul 11 04:16	21° © 16'42		retrograde	13687 May 16 19:19	10° ≈ 32'44	
	13681 Aug 20 16:22	$0^{\circ}\Omega$		min. Earth dist.	13687 Jul 14 09:02	5° ≈ 41'53	4.21406 AU
retrograde	13681 Nov 13 19:18	9° Ω 43'08		opposition	13687 Jul 15 20:22	5° ≈ 30'03	0°52'33
opposition	13682 Jan 13 02:55	4° Ω 48'42	-0°52'51	direct	13687 Sep 13 15:26	0° ≈ 30'54	
min. Earth dist.	13682 Jan 14 16:09	4° Ω 36'35	4.15665 AU		13687 Dec 31 09:27	15° ≈	
	13682 Mar 04 16:11	30° ₹ 5		evening set	13688 Jan 17 16:36	18° ≈ 46′00	
direct	13682 Mar 14 20:59	29° © 49'59					
	13682 Mar 25 01:45	0 $^{\circ}\Omega$		conjunction	13688 Jan 31 02:35	21° ≈ 44'35	0°35'22
	13682 Jul 02 08:07	15° Ω		minimum elong	13688 Jan 31 02:35	21° ≈ 44'35	0°36'06
evening set	13682 Jul 18 23:30	18° Ω 50'42		max. Earth dist.	13688 Feb 01 23:24	22° ≈ 09'28	6.30180 AU
max. Earth dist.	13682 Jul 30 01:51	21° Ω 27'52	6.06979 AU	morning rise	13688 Feb 13 12:09	24° ≈ 42'35	
					13688 Mar 09 04:09	0° ∀	
conjunction	13682 Jul 31 22:29	21° Ω 54'18		retrograde	13688 Jun 16 04:10	12° ¥ 22'41	
minimum elong	13682 Jul 31 22:29	21° Ω 54'18	0°35'58	opposition	13688 Aug 15 18:47	7° ¥ 22′29	0°47'51
morning rise	13682 Aug 13 22:12	24° Ω 58'34		min. Earth dist.	13688 Aug 14 20:46	7°) €29'44	4.37909 AU
	13682 Sep 04 16:02	0° ™		direct	13688 Oct 15 19:05	2° ¥ 22'13	
retrograde	13682 Dec 20 17:50	14° Mp 41'07		evening set	13689 Feb 18 02:24	19°) 51′40	
opposition	13683 Feb 18 12:25	9° ™ 44'50					
min. Earth dist.	13683 Feb 19 08:50	9° ™ 38′05	3.99186 AU	conjunction	13689 Mar 03 08:22	22°) 42′55	0°27'42
direct	13683 Apr 18 20:58	4° ™ 48′08		minimum elong	13689 Mar 03 08:23	22°) 42′55	0°27'56
evening set	13683 Aug 23 20:42	24° Mp 41'03		max. Earth dist.	13689 Mar 04 03:40	22°) 53′19	6.44285 AU

						_	
morning rise	13712 Feb 23 17:41	3° ¥ 51'35		min. Earth dist.	13718 Jan 30 11:11	19° Ω 29'00	4.07742 AU
retrograde	13712 Jun 25 15:24	21° ∺ 14'15			13718 Mar 16 13:03	15° ŖΩ	
opposition	13712 Aug 25 10:07	16° ₩ 14'52	0°43'53	direct	13718 Mar 30 06:45	14° Ω 41′28	
min. Earth dist.	13712 Aug 24 16:46	16°) € 20'33	4.42079 AU		13718 Apr 13 01:11	15° Ω	
direct	13712 Oct 25 18:21	11° ¥ 14'28			13718 Jul 17 05:34	0° m)	
evening set	13713 Feb 27 20:18	28°) 33'16		evening set	13718 Aug 03 20:39	4° Mp 08'10	
evening set	13713 Mar 06 14:37	0°Υ		evening set	13/10/14g 03/20.5/	4 11 / 00 10	
	13/13 Mai 00 14.3/	0 1			12710 A 16 21.44	70 m 1 5157	0022120
	1271234 12 00 57	100000110	000 400	conjunction	13718 Aug 16 21:44	7° m 15'57	
conjunction	13713 Mar 13 00:57	1° Y ′22'49	0°24'02	minimum elong	13718 Aug 16 21:45	7° m) 15'57	
minimum elong	13713 Mar 13 00:58	1° Y 22'49	0°24'08	max. Earth dist.	13718 Aug 15 12:33		5.99870 AU
max. Earth dist.	13713 Mar 13 11:06	1° Y 28′15	6.47398 AU	morning rise	13718 Aug 29 23:59	10° Mp 24'36	
morning rise	13713 Mar 26 04:06	4° Υ 11'31			13718 Dec 18 08:38	0∘ ट	
retrograde	13713 Jul 25 08:29	20° Ƴ 54'45		retrograde	13719 Jan 07 02:49	0° £ 38'12	
opposition	13713 Sep 24 10:17	15° Ƴ 58'13	0°23'48	_	13719 Jan 26 19:59	30°R M⊅	
min. Earth dist.	13713 Sep 24 13:30	15° Ƴ 57'11	4.50615 AU	opposition	13719 Mar 07 14:42	25° m/40'54	-0°39'39
direct	13713 Nov 25 15:58	10° Y ′57′26		min. Earth dist.	13719 Mar 08 01:14	25° m/ 37'23	3.93653 AU
evening set	13714 Mar 30 06:59	27° Υ ′58'28		direct	13719 May 05 11:05	20° m) 45'01	3.73033710
evening set				direct	•		
	13714 Apr 08 19:33	0° 8		_	13719 Jul 23 23:45	0∘ ত	
max. Earth dist.	13714 Apr 11 11:55	0° 8 34'21	6.51603 AU	evening set	13719 Sep 09 18:12	10° ≙ 54'35	
conjunction	13714 Apr 12 07:40	0° ප් 44'53	0°07'54	conjunction	13719 Sep 23 01:16	14° ≏ 09'52	-0°17'20
minimum elong	13714 Apr 12 07:40	0° 8 44'53	0°07'27	minimum elong	13719 Sep 23 01:17	14° ⊆ 09'53	
_	13714 Apr 12 00:21	0° 8 41'00	0 0/2/	max. Earth dist.	13719 Sep 23 05:28	14° ⊆ 12'27	5.89958 AU
behind sun begin	*	_					3.09930 AU
behind sun end	13714 Apr 12 14:58	0° 8 48'45		morning rise	13719 Oct 06 09:59	17° £ 26'14	
morning rise	13714 Apr 25 06:44	3° 8 30'31			13719 Dec 01 07:06	0° M ₊	
	13714 Jun 24 15:50	15° 8		retrograde	13720 Feb 15 04:34	8°M19'29	
retrograde	13714 Aug 23 23:56	20° 8 04'39		opposition	13720 Apr 14 08:56	3° M ₊19'10	-0°09'12
desc. node	13714 Sep 26 23:11	18° 8 21'20		min. Earth dist.	13720 Apr 13 17:49	3°M24'16	3.89140 AU
opposition	13714 Oct 24 04:25	15° 8 10'05	-0°01'56		13720 May 11 11:33	30° Ŗ Ω	
min. Earth dist.	13714 Oct 25 02:30	15° 8 03'00	4.50331 AU	direct	13720 Jun 11 10:54	28° ≏ 24'02	
	13714 Oct 25 11:52	15° R ႘			13720 Jul 12 07:18	0° M	
direct	13714 Dec 25 17:47	10° 8 09'11		asc. node	13720 Jul 27 20:57	1°ML53'46	
direct	13715 Feb 23 12:51	15°8		asc. node	13720 Oct 01 17:49	15°M	
		27° 8 17'11		. ,		18°MJ39'34	
evening set	13715 Apr 29 08:15	_	C 46006 477	evening set	13720 Oct 17 00:32	18-11639-34	
max. Earth dist.	13715 May 10 11:40	29° 8 41'16	6.46806 AU				
	13715 May 11 22:17	Π °0		conjunction	13720 Oct 30 12:27	21°M56'36	0°05'15
				minimum elong	13720 Oct 30 12:26	21°M56'36	0°05'59
conjunction	13715 May 12 06:00	0° Ⅱ 04'09	-0°10'23	behind sun begin	13720 Oct 30 04:29	21°M51'47	
minimum elong	13715 May 12 05:59	0° Ⅱ 04'09	0°11'14	behind sun end	13720 Oct 30 20:23	22°ML01'25	
behind sun begin	13715 May 12 00:05	0°耳00'58		max. Earth dist.	13720 Nov 01 04:19	22°M20'53	5.91270 AU
behind sun end	13715 May 12 11:53	0° Ⅱ 07'19		morning rise	13720 Nov 13 02:19	25°M14'30	
morning rise	13715 May 25 01:59	2° I I50'30			13720 Dec 03 03:41	0° ∡ ¹	
retrograde	13715 Sep 23 17:01	19° Ⅱ 46'37		retrograde	13721 Mar 24 02:27		
-	13715 Sep 23 17:01 13715 Nov 23 18:32	19 Ⅱ 40 37 14° Ⅱ 52'58	0007145	renograde			
opposition	1.3 / 1.3 INOV 2.3 1032			min Forth dist		15° 🗷 50'14	2 06162 ATT
min. Earth dist.				min. Earth dist.	13721 May 21 00:11	10° ∡ 759′10	3.96163 AU
	13715 Nov 25 06:12	14° Ⅱ 41'33		opposition	13721 May 21 00:11 13721 May 22 11:09	10° х 59'10 10° х 47'19	3.96163 AU 0°24'51
direct	13715 Nov 25 06:12 13716 Jan 25 01:20	14° Ⅱ 41'33 9° Ⅱ 52'23		opposition direct	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29	10° х 59'10 10° х 47'19 5° х 51'04	
direct evening set	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41	14°Щ41'33 9°Щ52'23 27°Щ31'13	4.41304 AU	opposition	13721 May 21 00:11 13721 May 22 11:09	10° х 59'10 10° х 47'19	
direct	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25	14°П41'33 9°П52'23 27°П31'13 29°П50'56		opposition direct evening set	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29	10° ₹ 59'10 10° ₹ 47'19 5° ₹ 51'04 25° ₹ 32'15	0°24'51
direct evening set	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41	14°Щ41'33 9°Щ52'23 27°Щ31'13	4.41304 AU	opposition direct	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29	10° ₹ 59'10 10° ₹ 47'19 5° ₹ 51'04 25° ₹ 32'15	
direct evening set	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25	14°П41'33 9°П52'23 27°П31'13 29°П50'56	4.41304 AU	opposition direct evening set	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31	10° ₹ 59'10 10° ₹ 47'19 5° ₹ 51'04 25° ₹ 32'15	0°24'51
direct evening set max. Earth dist.	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25	14°П41'33 9°П52'23 27°П31'13 29°П50'56	4.41304 AU 6.34104 AU	opposition direct evening set conjunction	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05	10° ₹59'10 10° ₹47'19 5° ₹51'04 25° ₹32'15 28° ₹44'19	0°24'51 0°25'09
direct evening set max. Earth dist.	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50	14°∏41'33 9°∏52'23 27°∏31'13 29°∏50'56 0°© 0°©22'23	4.41304 AU 6.34104 AU -0°26'15	opposition direct evening set conjunction minimum elong	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05	10° ₹59'10 10° ₹47'19 5° ₹51'04 25° ₹32'15 28° ₹44'19 28° ₹44'19 29° ₹19'10	0°24'51 0°25'09 0°26'11
direct evening set max. Earth dist. conjunction minimum elong	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50	14° \(\Pi\)41'33 9° \(\Pi\)52'23 27° \(\Pi\)31'13 29° \(\Pi\)50'56 0° \(\Pi\) 0° \(\Pi\)22'23 0° \(\Pi\)22'23	4.41304 AU 6.34104 AU -0°26'15	opposition direct evening set conjunction minimum elong max. Earth dist.	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16	10° ₹59'10 10° ₹47'19 5° ₹51'04 25° ₹32'15 28° ₹44'19 28° ₹19'10 0° ₹	0°24'51 0°25'09 0°26'11
direct evening set max. Earth dist. conjunction minimum elong morning rise	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08	14° II 41'33 9° II 52'23 27° II 31'13 29° II 50'56 0° © 0° © 22'23 0° © 22'23 3° © 13'22	4.41304 AU 6.34104 AU -0°26'15	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48	10° ₹59'10 10° ₹47'19 5° ₹51'04 25° ₹32'15 28° ₹44'19 28° ₹44'19 29° ₹19'10 0° ₹ 1° ₹56'39	0°24'51 0°25'09 0°26'11
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42	14° \(\Pi\)41'33 9° \(\Pi\)52'23 27° \(\Pi\)31'13 29° \(\Pi\)50'56 0° \(\Pi\) 0° \(\Pi\)22'23 0° \(\Pi\)22'23 3° \(\Pi\)3'22 21° \(\Pi\)00'50	4.41304 AU 6.34104 AU -0°26'15 0°27'18	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 29° ズ 19'10 0° 石 1° 云 56'39 21° 云 29'14	0°24'51 0°25'09 0°26'11 6.03185 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46	14° \(\Pi\)41'33 9° \(\Pi\)52'23 27° \(\Pi\)31'13 29° \(\Pi\)50'56 0° \(\Pi\) 0° \(\Pi\)22'23 0° \(\Pi\)22'23 3° \(\Pi\)13'22 21° \(\Pi\)00'50 16° \(\Pi\)06'59	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34	14° II 41'33 9° II 52'23 27° II 31'13 29° II 50'56 0° © 0° © 22'23 0° © 22'23 3° © 13'22 21° © 00'50 16° © 06'59 15° © 53'48	4.41304 AU 6.34104 AU -0°26'15 0°27'18	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45	0°24'51 0°25'09 0°26'11 6.03185 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41	14° II 41'33 9° II 52'23 27° II 31'13 29° II 50'56 0° 6 0° 6 22'23 0° 6 22'23 3° 6 13'22 21° 6 00'50 16° 6 06'59 15° 6 53'48 11° 6 07'18	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45 11° 云 27'34	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34	14° II 41'33 9° II 52'23 27° II 31'13 29° II 50'56 0° 50 0° 522'23 0° 522'23 3° 513'22 21° 500'50 16° 596'59 15° 553'48 11° 507'18 29° 536'26	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57 13722 Dec 28 22:26	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41	14° II 41'33 9° II 52'23 27° II 31'13 29° II 50'56 0° 6 0° 6 22'23 0° 6 22'23 3° 6 13'22 21° 6 00'50 16° 6 06'59 15° 6 53'48 11° 6 07'18	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45 11° 云 27'34	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41 13717 Jun 30 07:06	14° II 41'33 9° II 52'23 27° II 31'13 29° II 50'56 0° 50 0° 522'23 0° 522'23 3° 513'22 21° 500'50 16° 596'59 15° 553'48 11° 507'18 29° 536'26	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57 13722 Dec 28 22:26	10° ズ59'10 10° ズ47'19 5° ズ51'04 25° ズ32'15 28° ズ44'19 28° ズ44'19 29° ズ19'10 0° 云 1° 云56'39 21° 云29'14 16° 云38'49 16° 云25'45 11° 云27'34 0° ※	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41 13717 Jun 30 07:06 13717 Jul 02 00:06	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° \$\infty\$ 0° \$\infty\$22'23 0° \$\infty\$22'23 3° \$\infty\$13'22 21° \$\infty\$00'50 16° \$\infty\$06'59 15° \$\infty\$53'48 11° \$\infty\$07'18 29° \$\infty\$36'26 0° \$\infty\$	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57 13722 Dec 28 22:26	10° ズ59'10 10° ズ47'19 5° ズ51'04 25° ズ32'15 28° ズ44'19 28° ズ44'19 29° ズ19'10 0° 云 1° 云56'39 21° 云29'14 16° 云38'49 16° 云25'45 11° 云27'34 0° ※	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41 13717 Jun 30 07:06 13717 Jul 02 00:06	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° \$\infty\$ 0° \$\infty\$22'23 0° \$\infty\$22'23 3° \$\infty\$13'22 21° \$\infty\$00'50 16° \$\infty\$06'59 15° \$\infty\$53'48 11° \$\infty\$07'18 29° \$\infty\$36'26 0° \$\infty\$	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU 6.16682 AU	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57 13722 Dec 28 22:26 13722 Dec 29 21:37	10° ズ59'10 10° ズ47'19 5° ズ51'04 25° ズ32'15 28° ズ44'19 28° ズ44'19 29° ズ19'10 0° 云 1° 云56'39 21° 云29'14 16° 云38'49 16° 云25'45 11° 云27'34 0° ≈ 0° ≈ 13'04	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU 0°47'27
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Dec 25 04:46 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Jun 30 07:06 13717 Jun 30 07:06 13717 Jul 10 22:24	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° © 0° © 22'23 0° © 22'23 3° © 13'22 21° © 00'50 16° © 06'59 15° © 53'48 11° © 07'18 29° © 36'26 0° \(\alpha\) 2° \(\alpha\) 03'47	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU 6.16682 AU -0°35'05	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Aug 25 10:57 13722 Dec 28 22:26 13722 Dec 29 21:37	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 25'45 11° 云 27'34 0° ≈ 0° ≈ 13'04 3° ≈ 16'32	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU 0°47'27
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41 13717 Jun 30 07:06 13717 Jul 02 00:06 13717 Jul 10 22:24 13717 Jul 13 04:27 13717 Jul 13 04:26	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° 9 0° 922'23 3° 913'22 21° 900'50 16° 906'59 15° 953'48 11° 907'18 29° 936'26 0° A 2° A03'47 2° A35'06 2° A35'06	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU 6.16682 AU -0°35'05	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Jun 27 07:48 13722 Dec 28 22:26 13722 Dec 29 21:37 13723 Jan 12 09:36 13723 Jan 12 09:36 13723 Jan 14 17:54	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45 11° 云 27'34 0° ※ 0° ※ 13'04 3° ※ 16'32 3° ※ 16'32 3° ※ 48'27	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU 0°47'27 0°35'01 0°35'58
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Jun 30 07:06 13717 Jun 30 07:06 13717 Jun 10 22:24 13717 Jun 13 04:27 13717 Jun 13 04:27 13717 Jun 13 04:27 13717 Jun 13 04:26 13717 Jun 26 01:38	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° 9 0° 922'23 3° 913'22 21° 900'50 16° 906'59 15° 953'48 11° 907'18 29° 936'26 0° A 2° A03'47 2° A35'06 2° A35'06 5° A34'04	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU 6.16682 AU -0°35'05	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Jun 27 07:48 13722 Jun 27 07:48 13722 Dec 28 22:26 13722 Dec 29 21:37 13723 Jan 12 09:36 13723 Jan 12 09:36 13723 Jan 14 17:54 13723 Jan 25 21:30	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45 11° 云 27'34 0° ※ 0° ※ 13'04 3° ※ 16'32 3° ※ 16'32 3° ※ 48'27 6° ※ 19'38	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU 0°47'27 0°35'01 0°35'58
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Oct 25 13:42 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Feb 24 15:41 13717 Jun 30 07:06 13717 Jul 02 00:06 13717 Jul 10 22:24 13717 Jul 13 04:27 13717 Jul 13 04:26 13717 Jul 26 01:38 13717 Sep 07 06:58	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° © 0° © 22'23 0° © 22'23 3° © 13'22 21° © 00'50 16° © 06'59 15° © 53'48 11° © 07'18 29° © 36'26 0° A 2° A 03'47 2° A 35'06 5° A 34'04 15° A	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU 6.16682 AU -0°35'05	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Apr 25 17:03 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Jun 27 07:48 13722 Apr 28 22:26 13722 Dec 28 22:26 13722 Dec 29 21:37 13723 Jan 12 09:36 13723 Jan 12 09:36 13723 Jan 12 09:36 13723 Jan 25 21:30 13723 Mar 07 14:45	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45 11° 云 27'34 0° ※ 0° ※ 13'04 3° ※ 16'32 3° ※ 16'32 3° ※ 48'27 6° ※ 19'38 15° ※	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU 0°47'27 0°35'01 0°35'58
direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	13715 Nov 25 06:12 13716 Jan 25 01:20 13716 May 29 00:41 13716 Jun 08 12:25 13716 Jun 09 04:41 13716 Jun 10 20:50 13716 Jun 10 20:50 13716 Jun 23 16:08 13716 Dec 25 04:46 13716 Dec 26 21:34 13717 Jun 30 07:06 13717 Jun 30 07:06 13717 Jun 10 22:24 13717 Jun 13 04:27 13717 Jun 13 04:27 13717 Jun 13 04:27 13717 Jun 13 04:26 13717 Jun 26 01:38	14° M41'33 9° M52'23 27° M31'13 29° M50'56 0° 9 0° 922'23 3° 913'22 21° 900'50 16° 906'59 15° 953'48 11° 907'18 29° 936'26 0° A 2° A03'47 2° A35'06 2° A35'06 5° A34'04	4.41304 AU 6.34104 AU -0°26'15 0°27'18 -0°47'15 4.25657 AU 6.16682 AU -0°35'05 0°36'02	opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	13721 May 21 00:11 13721 May 22 11:09 13721 Jul 19 15:29 13721 Nov 23 21:31 13721 Dec 07 11:05 13721 Dec 07 11:04 13721 Dec 09 22:05 13721 Dec 12 19:16 13721 Dec 21 01:48 13722 Apr 28 12:45 13722 Jun 25 17:03 13722 Jun 27 07:48 13722 Jun 27 07:48 13722 Jun 27 07:48 13722 Dec 28 22:26 13722 Dec 29 21:37 13723 Jan 12 09:36 13723 Jan 12 09:36 13723 Jan 14 17:54 13723 Jan 25 21:30	10° ズ 59'10 10° ズ 47'19 5° ズ 51'04 25° ズ 32'15 28° ズ 44'19 28° ズ 44'19 29° ズ 19'10 0° 云 1° 云 56'39 21° 云 29'14 16° 云 38'49 16° 云 25'45 11° 云 27'34 0° ※ 0° ※ 13'04 3° ※ 16'32 3° ※ 16'32 3° ※ 48'27 6° ※ 19'38	0°24'51 0°25'09 0°26'11 6.03185 AU 4.11566 AU 0°47'27 0°35'01 0°35'58

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conjunction	13735 Jan 17 04:37	8°≈00'48	0°35'25	opposition	13741 Jan 03 15:39	25° © 28'36	-0°50'28
minimum elong	13735 Jan 17 04:37	8° ≈ 00'48	0°36'19	min. Earth dist.	13741 Jan 05 06:30	25°916'01	4.21306 AU
max. Earth dist.	13735 Jan 19 09:02	8° ≈ 30'23	6.22940 AU	direct	13741 Mar 05 19:17	20°\$29'18	
morning rise	13735 Jan 30 16:07	11° ≈ 02'41			13741 May 28 13:11	$0^{\circ}\Omega$	
C	13735 Feb 17 15:54	15° ≈		evening set	13741 Jul 09 15:00	9° Ω 11'50	
retrograde	13735 Jun 04 13:55	29° ≈ 10'31		max. Earth dist.	13741 Jul 20 11:57	11° Ω 43'53	6.12412 AU
opposition	13735 Aug 03 23:12	24° ≈ 09'09	0°51'39				
min. Earth dist.	13735 Aug 02 18:57	24° ≈ 18'31	4.31435 AU	conjunction	13741 Jul 22 13:02	12° Ω 12'36	-0°35'35
direct	13735 Oct 03 11:49	19° ≈ 09'19		minimum elong	13741 Jul 22 13:02	12° Ω 12'36	0°36'27
	13736 Jan 03 20:51	0°) €			13741 Aug 03 11:25	15° Ω	
evening set	13736 Feb 06 00:49	6° ¥ 55'45		morning rise	13741 Aug 04 11:07	15° Ω 13'48	
					13741 Oct 16 00:58	0° ™	
conjunction	13736 Feb 19 08:38	9°) 49′50	0°32'05	retrograde	13741 Dec 10 07:56	4° mg 32'34	
minimum elong	13736 Feb 19 08:39	9°) 49′50	0°32'34		13742 Feb 05 07:36	30°R€	
max. Earth dist.	13736 Feb 20 15:57	10°) €06'54	6.39022 AU	opposition	13742 Feb 08 05:46	29° Ω 36'58	
morning rise	13736 Mar 03 15:17	12°) 43′08		min. Earth dist.	13742 Feb 09 09:16	29° Ω 27'56	4.03900 AU
retrograde	13736 Jul 03 23:42	29°) 52'53	0020107	direct	13742 Apr 09 01:03	24° Ω 39'37	
opposition	13736 Sep 02 20:27	24°) 54'27	0°39'07		13742 Jun 07 10:46	0° Mp	
min. Earth dist.	13736 Sep 02 08:42	24°) 58'17 19°) 53'58	4.44990 AU	evening set	13742 Aug 13 18:14	14° m 17'50	
direct	13736 Nov 03 11:01 13737 Feb 01 12:19	19° χ 53′38		agniumation	12742 Aug 26 20:40	17°m, 27'20	0°20'26
evening set	13737 Feb 01 12.19 13737 Mar 08 10:04	7° Υ 06'30		conjunction minimum elong	13742 Aug 26 20:40 13742 Aug 26 20:41	17° m 27'39 17° m 27'39	0°29'46
evening set	13/3/ Wiai 08 10.04	/ 10030		max. Earth dist.	13742 Aug 25 19:10	17° mg 12'12	5.96810 AU
conjunction	13737 Mar 21 13:34	9° Ƴ 54'57	0°19'56	morning rise	13742 Sep 09 00:35	20° m) 38'28	3.90810 AU
minimum elong	13737 Mar 21 13:35	9° Υ '54'57	0°19'51	morning risc	13742 Oct 19 20:23	0° ⊽	
max. Earth dist.	13737 Mar 21 14:56	9° Υ 55'41	6.49144 AU	retrograde	13743 Jan 17 16:26	ა – 11° ჲ 05'19	
morning rise	13737 Apr 03 15:36	12° Υ '42'36	0.19111110	opposition	13743 Mar 18 02:56	6° ₽ 07'12	-0°32'32
retrograde	13737 Aug 02 14:47	29° Y '21'22		min. Earth dist.	13743 Mar 18 06:37		3.91711 AU
opposition	13737 Oct 02 17:24	24° Y °25'34	0°16'54	direct	13743 May 15 16:30	1° ≏ 11'36	
min. Earth dist.	13737 Oct 03 02:11	24° Y ′22'45	4.51164 AU	evening set	13743 Sep 20 02:21	21° ≏ 25'41	
direct	13737 Dec 04 02:28	19° Ƴ 24'49		C	•		
	13738 Mar 07 04:03	0° 8		conjunction	13743 Oct 03 10:53	24° ≏ 42'00	-0°11'30
evening set	13738 Apr 07 16:48	6° 8 26'16		minimum elong	13743 Oct 03 10:53	24° ≏ 42'00	0°11'10
				behind sun begin	13743 Oct 03 04:43	24° ≏ 38'14	
conjunction	13738 Apr 20 16:37	9° 8 12'35	0°02'49	behind sun end	13743 Oct 03 17:03	24° ≏ 45'46	
minimum elong	13738 Apr 20 16:37	9° 8 12'35	0°02'15	max. Earth dist.	13743 Oct 03 23:50	24° ≏ 49'56	5.89322 AU
behind sun begin	13738 Apr 20 08:36	9° 8 08'19		morning rise	13743 Oct 16 21:14	27° ≏ 59'23	
behind sun end	13738 Apr 21 00:38	9° 8 16'51			13743 Oct 25 04:28	0° M	
max. Earth dist.	13738 Apr 19 14:29	_	6.50954 AU		13744 Jan 06 16:24	15° ™	
morning rise	13738 May 03 14:43	11° 8 58'09		retrograde	13744 Feb 25 16:30	18° ™ 53'27	
	13738 May 18 01:15	15° 8			13744 Apr 16 11:08	15°RM	
desc. node	13738 Jun 20 15:28	21° 8 27'54		asc. node	13744 Apr 19 10:54	14°MJ36'10	
retrograde	13738 Sep 01 10:33	28° 8 35'55	000010.5	opposition	13744 Apr 24 20:57	13°M.52'19	0°00'30
opposition	13738 Nov 01 15:17	23° 8 41'46		min. Earth dist.	13744 Apr 24 00:34	13°M59'13	3.89893 AU
min. Earth dist.	13738 Nov 02 16:51	23° 8 33'35	4.48576 AU	direct	13744 Jun 21 22:06	8°M56'58	
direct	13739 Jan 03 03:59 13739 Apr 09 10:54	18° 8 41′00 0° Ⅱ		evening set	13744 Aug 23 09:27 13744 Oct 27 10:34	15°M 29°M07'25	
evening set	13739 May 07 20:20	5° П 55'20		evening set	13744 Oct 27 10.34 13744 Oct 31 01:43	29 11G0723 0° √ 1	
max. Earth dist.	13739 May 18 19:18	8° Ⅱ 17'57	6.44079 AU		13/44 Oct 31 01.43	0 🗡	
max. Latur dist.	13/37 Way 16 17.16	о д 1737	0.44077 AU	conjunction	13744 Nov 09 23:28	2° ∡ ¹23'53	0°11'20
conjunction	13739 May 20 17:26	8° Ⅱ 43'04	-0°15'15	minimum elong	13744 Nov 09 23:27	2° × 23'53	0°12'13
minimum elong	13739 May 20 17:26	8° I I43'04		behind sun begin	13744 Nov 09 17:54	2°× 7 20'32	V 12 13
morning rise	13739 Jun 02 12:58	11° I I30'17		behind sun end	13744 Nov 10 05:01	2° × ⁷ 27'14	
retrograde	13739 Oct 02 15:40	28° I I37'20		max. Earth dist.	13744 Nov 11 22:34	2° ₹ 52'25	5.93324 AU
opposition	13739 Dec 02 15:22	23° Ⅱ 43'45	-0°34'06	morning rise	13744 Nov 23 13:58	5° ∡ ¹41'03	
min. Earth dist.	13739 Dec 04 05:04	23° Ⅲ 31'40	4.37775 AU	retrograde	13745 Apr 03 02:35	26° ₹ '04'34	
direct	13740 Feb 02 18:44	18° Ⅱ 43′24		min. Earth dist.	13745 May 30 23:43	21° х 13'49	3.99272 AU
	13740 May 07 07:28	0ංම		opposition	13745 Jun 01 12:31	21° х 01'20	0°32'38
evening set	13740 Jun 06 20:29	6° © 33'15		direct	13745 Jul 29 20:55	16° ∡ °04'37	
max. Earth dist.	13740 Jun 17 07:37	8°953'56	6.30028 AU		13745 Nov 09 14:03	ರ°0	
				evening set	13745 Dec 03 23:53	5° පි 33'56	
conjunction	13740 Jun 19 16:34	9° 5 25'58					
minimum elong	13740 Jun 19 16:34	9° © 25'58	0°30'39	conjunction	13745 Dec 17 13:20	8° ⋜ 44'11	0°29'01
morning rise	13740 Jul 02 12:04	12°5518'39		minimum elong	13745 Dec 17 13:20	8° ਰ 44'11	0°30'04
	13740 Oct 19 14:27	0 $^{\circ}\Omega$		max. Earth dist.	13745 Dec 20 00:51	9° る 19'00	6.07026 AU
retrograde	13740 Nov 04 02:55	0° Ω 22'45		morning rise	13745 Dec 31 03:50	11° る 54'33	
	13740 Nov 19 14:45	30° ₹ 5			13746 Apr 11 01:54	0° ≈	

retrograde	13746 May 07 19:54	1°≈09'00		minimum elong	13751 May 24 23:37	13° I 103'27	0°18'34
i matri	13746 Jun 03 10:18	30°Rる	4 15747 433	morning rise	13751 Jun 06 19:05	15° Ⅱ 51'09	
min. Earth dist.	13746 Jul 05 04:01	26°る18'32	4.15747 AU	1	13751 Aug 22 10:23	0°50	
opposition	13746 Jul 06 17:50	26°る05'49	0°50'33	retrograde	13751 Oct 07 03:44	3°504'00	
direct	13746 Sep 04 03:34	21°る07'09		•,•	13751 Nov 22 11:44	30°RII	0027102
	13746 Nov 23 15:48	0° ≈		opposition	13751 Dec 07 02:37	28°II 10'22	
evening set	13747 Jan 08 10:56	9° ≈ 39'39		min. Earth dist.	13751 Dec 08 16:46		4.35906 AU
. ,.	12747 1 21 22 12	12041101	0025125	direct	13752 Feb 07 03:01	23° I 10'04	
conjunction	13747 Jan 21 22:12	12°≈41'01	0°35'35		13752 Apr 17 23:55	0.20 0.20	
minimum elong max. Earth dist.	13747 Jan 21 22:13 13747 Jan 24 02:05	12°≈41'01 13°≈10'10	0°36'25 6.24772 AU	evening set max. Earth dist.	13752 Jun 11 06:57 13752 Jun 21 19:20	11°905'55	6.27825 AU
max. Earm dist.	13747 Feb 01 05:59	15 ≈10 10 15°≈	0.24//2 AU	max. Earth dist.	13/32 Juli 21 19.20	13 202/3/	0.27823 AU
morning rise	13747 Feb 01 03.39 13747 Feb 04 09:03	15 ≈ 15°≈41'52		conjunction	13752 Jun 24 03:16	13° © 59'34	0°21'02
morning rise		15 ≈ 41 52 0°) €		minimum elong	13752 Jun 24 03:15	13°959'33	
retrograde	13747 Apr 19 23:58 13747 Jun 08 22:44	0 K 3° ∺ 42'11		morning rise	13752 Jul 24 03.13	15 \$3933 16°\$53'11	0 32 03
renograde	13747 Jul	30°R≈		morning rise	13752 Sep 10 10:37	0° Ω	
min. Earth dist.	13747 Jul 29 07:55	28°≈50'08	4.33146 AU	retrograde	13752 Nov 09 00:19	5° Ω 06'35	
opposition	13747 Aug 07 03:33 13747 Aug 08 09:01	28°≈41'10	0°50'40	opposition	13753 Jan 08 10:36	0°Ω12'21	0°51'38
direct	13747 Aug 08 09:01 13747 Oct 08 00:38	23°≈41'13	0 30 40	min. Earth dist.	13753 Jan 10 01:20	29° © 59'47	4.18910 AU
direct	13747 Dec 14 20:50	0° \		iiiii. Lattii dist.	13753 Jan 10 01:20	29 3 3947 30° ₹5	4.18910 AU
evening set	13747 Bec 14 20:30 13748 Feb 10 13:00	11° ¥ 23'07		direct	13753 Mar 10 10:10	25°S13'19	
evening set	13740100 10 13.00	11 /(2507		direct	13753 May 06 10:31	0°Ω	
conjunction	13748 Feb 23 20:09	14° ₩ 16'22	0°30'48	evening set	13753 Jul 14 08:37	14° Ω 03'37	
minimum elong	13748 Feb 23 20:10	14° X 16'22	0°31'12	evening set	13753 Jul 14 08:37	14 0 0 03 37	
max. Earth dist.	13748 Feb 24 23:04	14° H 31'00	6.40487 AU	max. Earth dist.	13753 Jul 25 06:28		6.10016 AU
morning rise	13748 Mar 08 02:22	17° \ 08'53	0.40407 AC	max. Lartii dist.	13/33 Jul 23 00.20	10 8637 03	0.10010 AC
morning rise	13748 May 15 00:39	17 Λ 08 33		conjunction	13753 Jul 27 06:57	17° Ω 05'36	0°35'20
retrograde	13748 Jul 08 05:32	4° Υ 13'27		minimum elong	13753 Jul 27 06:58	$17^{\circ} \Omega 05'36$	
retrograde	13748 Sep 01 08:41	4 11327 30°R ∺		morning rise	13753 Jul 27 00:58 13753 Aug 09 05:50	20°Ω08'09	0 30 10
opposition	13748 Sep 07 02:34	*	0°36'24	morning risc	13753 Aug 09 03:30 13753 Sep 22 21:05	0° m)	
min. Earth dist.	13748 Sep 07 02.34 13748 Sep 06 17:39	29° X 13'18	4.46113 AU	retrograde	13753 Sep 22 21:05 13753 Dec 15 12:18	9° m y 37'33	
direct	13748 Nov 07 20:26	24°)(14'42	4.40113 AU	opposition	13754 Feb 13 09:03	4° Mp 41'39	-0°49'50
direct	13749 Jan 12 06:49	0°Υ		min. Earth dist.	13754 Feb 14 09:27	-	4.01719 AU
evening set	13749 Mar 12 17:34	11° Υ 24'36		mm. Larur dist.	13754 Apr 01 13:37	30°RΩ	4.01717 AC
evening set	15/4/ Widi 12 17.54	11 2430		direct	13754 Apr 01 13:37 13754 Apr 13 23:15	29° Ω 44'34	
conjunction	13749 Mar 25 20:42	14° Ƴ 12'36	0°17'42	direct	13754 Apr 26 10:03	0° m)	
minimum elong	13749 Mar 25 20:42	14° Υ 12'37	0°17'32	evening set	13754 Aug 18 20:00	19° m) 29'54	
max. Earth dist.	13749 Mar 25 19:55	14° Υ 12'11	6.49837 AU	evening set	137347 Rug 10 20.00	17 Hg 27 54	
morning rise	13749 Apr 07 22:02	16° Υ 59'45	0.47037 AU	conjunction	13754 Aug 31 23:23	22° m 40'57	-0°27'31
morning rise	13749 Jun 17 16:13	0°8		minimum elong	13754 Aug 31 23:24	22° m 40'58	
retrograde	13749 Aug 06 17:47	3° 8 36'31		max. Earth dist.	13754 Aug 31 03:35	22° m/ 28'55	5.95073 AU
renograde	13749 Sep 26 12:56	30°R Y		morning rise	13754 Sep 14 04:04	25° m 53'00	0.50075110
opposition	13749 Oct 06 22:08			11101111115 1150			
min. Earth dist.		78 7 40 54	0°13'16	· ·			
		28° Y 40'54 28° Y 37'42	0°13'16 4.51370 AU	-	13754 Oct 01 11:06	0∘ ⊽	
direct	13749 Oct 07 08:07	28° Ƴ 37'42	0°13'16 4.51370 AU	retrograde	13754 Oct 01 11:06 13755 Jan 23 04:41	0° ჲ 16° ჲ 27'21	-0°28'26
direct	13749 Oct 07 08:07 13749 Dec 08 07:26	28° Y '37'42 23° Y '40'07		retrograde opposition	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10	0° ჲ 16° ჲ 27'21 11° ჲ 28'53	
	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22	28° Ƴ 37'42 23° Ƴ 40'07 0° ႘		retrograde opposition min. Earth dist.	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25	0° £ 16° £ 27'21 11° £ 28'53 11° £ 28'28	-0°28'26 3.90617 AU
direct evening set	13749 Oct 07 08:07 13749 Dec 08 07:26	28° Y '37'42 23° Y '40'07		retrograde opposition	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10	0° ჲ 16° ჲ 27'21 11° ჲ 28'53	
evening set	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24	28° Ƴ 37'42 23° Ƴ 40'07 0° ႘		retrograde opposition min. Earth dist. direct	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32	0° <u>ഫ</u> 16° <u>ഫ</u> 27'21 11° <u>ഫ</u> 28'53 11° <u>ഫ</u> 28'28 6° <u>ഫ</u> 33'27	
evening set	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40	28° Y 37'42 23° Y 40'07 0° 8 10° 8 41'32	4.51370 AU	retrograde opposition min. Earth dist. direct	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32	0° <u>ഫ</u> 16° <u>ഫ</u> 27'21 11° <u>ഫ</u> 28'53 11° <u>ഫ</u> 28'28 6° <u>ഫ</u> 33'27	3.90617 AU
evening set conjunction minimum elong	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44	4.51370 AU 0°00'09	retrograde opposition min. Earth dist. direct evening set conjunction	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32	0° Ω 16° Ω 27'21 11° Ω 28'53 11° Ω 28'28 6° Ω 33'27 26° Ω 50'25	3.90617 AU -0°08'22
evening set	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29	4.51370 AU 0°00'09	retrograde opposition min. Earth dist. direct evening set	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12	0° \(\Omega\) 16° \(\Omega\)27'21 11° \(\Omega\)28'53 11° \(\Omega\)28'28 6° \(\Omega\)33'27 26° \(\Omega\)50'25 0° \(\Omega\)607'18	3.90617 AU -0°08'22
evening set conjunction minimum elong behind sun begin	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00	4.51370 AU 0°00'09	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33	0° \(\Omega\) 16° \(\Omega\)27'21 11° \(\Omega\)28'53 11° \(\Omega\)28'28 6° \(\Omega\)33'27 26° \(\Omega\)50'25 0° \(\Omega\)607'18 0° \(\Omega\)607'19	3.90617 AU -0°08'22
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14	4.51370 AU 0°00'09 0°00'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 3'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 07'19 0° \(\Omega\) 02'45 0° \(\Omega\) 11'52	3.90617 AU -0°08'22
evening set conjunction minimum elong behind sun begin behind sun end	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00	4.51370 AU 0°00'09 0°00'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00 13755 Oct 08 07:37	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 07'19 0° \(\Omega\) 02'45 0° \(\Omega\) 11'52 0° \(\Omega\)	3.90617 AU -0°08'22
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55 13750 May 02 01:58	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01 15°8	4.51370 AU 0°00'09 0°00'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 07'19 0° \(\Omega\) 02'45 0° \(\Omega\) 11'52 0° \(\Omega\)	3.90617 AU -0°08'22 0°07'56
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01	4.51370 AU 0°00'09 0°00'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 08 07:37 13755 Oct 09 13:41	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 07'19 0° \(\Omega\) 02'45 0° \(\Omega\) 11'52 0° \(\Omega\)	3.90617 AU -0°08'22 0°07'56
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14	4.51370 AU 0°00'09 0°00'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 08 07:37 13755 Oct 09 13:41 13755 Oct 22 06:48	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 002'45 0° \(\Omega\) 11'52 0° \(\Omega\) 0° \(\Omega\) 18'26 3° \(\Omega\) 18'25'16	3.90617 AU -0°08'22 0°07'56
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II	4.51370 AU 0°00'09 0°00'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 3'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 07'19 0° \(\Omega\) 02'45 0° \(\Omega\) 0° \(\Omega\) 11'52 0° \(\Omega\) 0° \(\Omega\) 18'26 3° \(\Omega\) 25'16 15° \(\Omega\)	3.90617 AU -0°08'22 0°07'56
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44	4.51370 AU 0°00'09 0°00'30 6.50628 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25	0° Ω 16° Ω27'21 11° Ω28'53 11° Ω28'28 6° Ω33'27 26° Ω50'25 0° M.07'18 0° M.07'19 0° M.02'45 0° M.11'52 0° M. 0° M.18'26 3° M.25'16 15° M. 24° M.19'19	3.90617 AU -0°08'22 0°07'56
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43	4.51370 AU 0°00'09 0°00'30 6.50628 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 08 07:37 13755 Oct 09 03:00 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21	0° \(\Omega\) 16° \(\Omega\)27'21 11° \(\Omega\)28'53 11° \(\Omega\)28'28 6° \(\Omega\)3'27 26° \(\Omega\)50'25 0° \(\Omega\)07'18 0° \(\Omega\)07'19 0° \(\Omega\)07'19 0° \(\Omega\)07'152 0° \(\Omega\)07'16 15° \(\Omega\)0* \(\Omega\)18'26 3° \(\Omega\)0* \(\Omega\)18'26 15° \(\Omega\)0* \(\Omega\)19'19 24° \(\Omega\)19'122	3.90617 AU -0°08'22 0°07'56 5.88983 AU
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50 13750 Nov 05 21:44	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43	4.51370 AU 0°00'09 0°00'30 6.50628 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde min. Earth dist.	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21 13756 Apr 29 05:56	0° \(\Omega\) 16° \(\Omega\)27'21 11° \(\Omega\)28'53 11° \(\Omega\)28'28 6° \(\Omega\)3'27 26° \(\Omega\)50'25 0° \(\Omega\)07'18 0° \(\Omega\)07'19 0° \(\Omega\)07'19 0° \(\Omega\)07'19 0° \(\Omega\)07'16 15° \(\Omega\)0* \(\Omega\)08'16 15° \(\Omega\)0* \(\Omega\)08'19'19 24° \(\Omega\)19'19 24° \(\Omega\)19'22 19° \(\Omega\)04	3.90617 AU -0°08'22 0°07'56 5.88983 AU 3.90378 AU
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist.	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 23 16:43 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50 13750 Nov 05 21:44 13750 Nov 07 02:06	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43 27°849'39	4.51370 AU 0°00'09 0°00'30 6.50628 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde min. Earth dist.	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21 13756 Apr 29 05:56 13756 Apr 30 06:01	0° \(\Omega\) 16° \(\Omega\)27'21 11° \(\Omega\)28'53 11° \(\Omega\)28'28 6° \(\Omega\)3'27 26° \(\Omega\)50'25 0° \(\Omega\)07'18 0° \(\Omega\)07'19 0° \(\Omega\)07'19 0° \(\Omega\)07'19 0° \(\Omega\)07'19 0° \(\Omega\)07'18 0° \(\Omega\)07'19 0° \(\Omega\)07'19 24° \(\Omega\)11'52 0° \(\Omega\)08' \(\Omega\)25'16 15° \(\Omega\) 24° \(\Omega\)19'19 24° \(\Omega\)19'22 19° \(\Omega\)26'04 19° \(\Omega\)17'55	3.90617 AU -0°08'22 0°07'56 5.88983 AU 3.90378 AU
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist.	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 28 13:55 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50 13750 Nov 05 21:44 13750 Nov 07 02:06 13751 Jan 07 11:08	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°827'45 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43 27°849'39 22°857'57	4.51370 AU 0°00'09 0°00'30 6.50628 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde min. Earth dist. opposition	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:32 13755 Oct 08 19:33 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 09 03:00 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21 13756 Apr 29 05:56 13756 Apr 30 06:01 13756 Jun 08 04:30	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 07'18 0° \(\Omega\) 07'19 0° \(\Omega\) 02'45 0° \(\Omega\) 11'52 0° \(\Omega\) 0° \(\Omega\) 11'52 0° \(\Omega\) 0° \(\Omega\) 125'16 15° \(\Omega\) 18' \(\Omega\) 19' 19 24° \(\Omega\) 19' 19 24° \(\Omega\) 19' 19:55 15° \(\Omega\) 17'55	3.90617 AU -0°08'22 0°07'56 5.88983 AU 3.90378 AU
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 28 13:55 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50 13750 Nov 05 21:44 13750 Nov 07 02:06 13751 Jan 07 11:08 13751 Mar 21 14:19	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43 27°849'39 22°857'57 0°II 10°II15'19	4.51370 AU 0°00'09 0°00'30 6.50628 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde min. Earth dist. opposition	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:33 13755 Oct 08 19:33 13755 Oct 08 19:33 13755 Oct 08 07:37 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21 13756 Apr 29 05:56 13756 Apr 30 06:01 13756 Jun 08 04:30 13756 Jun 27 05:11	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 00'145 0° \(\Omega\) 00'145 0° \(\Omega\) 11'52 0° \(\Omega\) 00"11'52 0° \(\Omega\) 11'52 0° \(\Omega\) 125'16 15° \(\Omega\) 125'16 15° \(\Omega\) 122'19° \(\Omega\) 26'04 19° \(\Omega\) 17'55 15° \(\Omega\) 14° \(\Omega\) 122'32	3.90617 AU -0°08'22 0°07'56 5.88983 AU 3.90378 AU
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 28 13:55 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50 13750 Nov 05 21:44 13750 Nov 07 02:06 13751 Jan 07 11:08 13751 Mar 21 14:19 13751 May 12 02:52	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43 27°849'39 22°857'57 0°II 10°II15'19	4.51370 AU 0°00'09 0°00'30 6.50628 AU -0°13'09 4.47697 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde min. Earth dist. opposition	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:33 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 08 07:37 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21 13756 Apr 29 05:56 13756 Apr 30 06:01 13756 Jun 08 04:30 13756 Jun 27 05:11 13756 Jul 16 08:37	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 33'27 26° \(\Omega\) 50'25 0° \(\Omega\) 007'18 0° \(\Omega\) 007'19 0° \(\Omega\) 002'45 0° \(\Omega\) 11'52 0° \(\Omega\) 00° \(\Omega\) 13'26 3° \(\Omega\) 25'16 15° \(\Omega\) 122'19 24° \(\Omega\) 19'22 19° \(\Omega\) 26'04 19° \(\Omega\) 17'55 15° \(\Omega\) 14° \(\Omega\) 122'32 15° \(\Omega\)	3.90617 AU -0°08'22 0°07'56 5.88983 AU 3.90378 AU
evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set	13749 Oct 07 08:07 13749 Dec 08 07:26 13750 Feb 15 17:22 13750 Apr 11 22:24 13750 Apr 24 21:40 13750 Apr 24 21:41 13750 Apr 24 13:41 13750 Apr 25 05:41 13750 Apr 28 13:55 13750 Apr 28 13:55 13750 May 02 01:58 13750 May 07 19:18 13750 Jul 23 06:26 13750 Sep 05 17:54 13750 Oct 20 13:50 13750 Nov 05 21:44 13750 Nov 07 02:06 13751 Jan 07 11:08 13751 Mar 21 14:19 13751 May 12 02:52	28°Y37'42 23°Y40'07 0°8 10°841'32 13°827'44 13°823'29 13°832'00 13°812'14 14°815'01 15°8 16°813'14 0°II 2°II52'44 30°R8 27°858'43 27°849'39 22°857'57 0°II 10°II15'19	4.51370 AU 0°00'09 0°00'30 6.50628 AU -0°13'09 4.47697 AU 6.42673 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde min. Earth dist. opposition direct	13754 Oct 01 11:06 13755 Jan 23 04:41 13755 Mar 23 12:10 13755 Mar 23 13:25 13755 May 20 23:32 13755 Sep 25 10:12 13755 Oct 08 19:33 13755 Oct 08 19:33 13755 Oct 08 12:06 13755 Oct 08 07:37 13755 Oct 09 03:00 13755 Oct 09 13:41 13755 Oct 22 06:48 13755 Dec 12 04:55 13756 Mar 01 09:25 13756 Mar 02 01:21 13756 Apr 29 05:56 13756 Apr 30 06:01 13756 Jun 08 04:30 13756 Jun 27 05:11 13756 Jul 16 08:37 13756 Oct 13 18:36	0° \(\Omega\) 16° \(\Omega\) 27'21 11° \(\Omega\) 28'53 11° \(\Omega\) 28'28 6° \(\Omega\) 3'27 26° \(\Omega\) 50'25 0° \(\Omega\) 00'7'18 0° \(\Omega\) 00'7'19 0° \(\Omega\) 00'7'19 0° \(\Omega\) 00'7'19 0° \(\Omega\) 11'52 0° \(\Omega\) 0° \(\Omega\) 11'52 0° \(\Omega\) 15° \(\Omega\) 11'55 15° \(\Omega\) 11'7'55 15° \(\Omega\) 11'8 15° \(\Omega\) 12'32 15° \(\Omega\)	3.90617 AU -0°08'22 0°07'56 5.88983 AU 3.90378 AU

conjunction	13756 Nov 15 08:23	7° ∡ ¹46'06	0°14'21		13762 Jan 20 08:03	0°B	
minimum elong	13756 Nov 15 08:22	7° ∡ ¹46'06	0°15'16	desc. node	13762 Mar 06 03:54	6° 8 39'45	
behind sun begin	13756 Nov 15 05:54	7° ∡ ¹44'37	0 13 10	evening set	13762 Apr 16 01:51	14° 8 52'39	
behind sun end	13756 Nov 15 10:50	7° × 747'34		evening set	13762 Apr 16 15:41	15°B	
max. Earth dist.	13756 Nov 17 09:32		5.94567 AU	max. Earth dist.	13762 Apr 27 16:22	_	6.50179 AU
morning rise	13756 Nov 28 23:16	11°×7'02'46	3.54307 110	max. Earth dist.	13702 Apr 27 10.22	17 02120	0.50177710
morning rise	13757 Mar 10 17:26	0°ਤ 0°ਤ		conjunction	13762 Apr 29 00:48	17° 8 38'51	-0°02'26
retrograde	13757 Apr 08 03:56	1° ろ 19'01		minimum elong	13762 Apr 29 00:47	17° 8 38'51	0°03'09
retrograde	13757 May 06 11:36	30°R <i>≯</i> 7		behind sun begin	13762 Apr 28 16:49	17° 8 34'36	0 03 07
min. Earth dist.	13757 Jun 05 01:31	26° ₹ ¹28'33	4.01134 AU	behind sun end	13762 Apr 29 08:45	17° 8 43'06	
opposition	13757 Jun 06 15:30	26° x 15'40	0°36'14	morning rise	13762 May 11 21:56	20° 8 24'20	
direct	13757 Aug 04 03:05	21° × 18'40	0 3011	morning rise	13762 Jun 29 08:20	0°II	
direct	13757 Oct 21 00:30	0°ਰ ਹ°ਰ		retrograde	13762 Sep 09 22:05	7° Ⅱ 06'11	
evening set	13757 Dec 09 03:29	0 ට 10° ට 40'57		opposition	13762 Nov 10 02:31	2° Ⅱ 12'13	-0°16'44
evening set	13737 Dec 07 03.27	10 04037		min. Earth dist.	13762 Nov 11 08:18		4.46570 AU
conjunction	13757 Dec 22 16:56	13° る 50'05	0°30'40	mm. Larm dist.	13762 Nov 27 22:56	30°R 8	4.40370710
minimum elong	13757 Dec 22 16:56	13° ろ 50'05	0°31'44	direct	13763 Jan 11 13:56	27° 8 11'24	
max. Earth dist.	13757 Dec 25 06:09	13 3 30 03	6.09353 AU	uncet	13763 Feb 25 01:55	0°Ⅱ	
morning rise	13758 Jan 05 06:54	14 3 2342	0.09333 AU	evening set	13763 May 16 07:54	0 <u>H</u> 14° ∏ 32'41	
morning rise	13758 Mar 09 00:40	0°≈		max. Earth dist.		14 Ⅲ 5241 16° Ⅲ 53'21	6.40923 AU
ratra ara da		0 ≈ 6°≈02'54		max. Earm dist.	13763 May 27 01:24	10 ДЗЗ 21	0.40923 AU
retrograde min. Earth dist.	13758 May 12 13:15		4 10202 ATT		127/23/4 20 04/20	170 T 21122	0010140
	13758 Jul 09 22:54	1°≈12'24	4.18303 AU	conjunction	13763 May 29 04:28	17° Ⅱ 21'23	
opposition	13758 Jul 11 12:02	0°≈59'56	0°51'37	minimum elong	13763 May 29 04:28	17° Ⅲ 21'22	0°20'47
1	13758 Jul 19 00:03	30°Rる		morning rise	13763 Jun 10 23:44	20° Ⅱ 09'41	
direct	13758 Sep 09 01:51	26°る01'05			13763 Jul 29 09:29	0°©	
	13758 Oct 30 18:22	0° ≈		retrograde	13763 Oct 11 16:55	7° 5 29'38	
evening set	13759 Jan 13 06:26	14° ≈ 25′24		opposition	13763 Dec 11 13:29	2° © 35'59	
	13759 Jan 15 20:36	15° ≈		min. Earth dist.	13763 Dec 13 05:43		4.33616 AU
					13764 Jan 01 20:02	30°RⅡ	
conjunction	13759 Jan 26 17:02	17° ≈ 25′26	0°35'32	direct	13764 Feb 11 11:47	27° Ⅲ 35'44	
minimum elong	13759 Jan 26 17:02	17° ≈ 25′26	0°36'20		13764 Mar 22 20:04	0ಂತಾ	
max. Earth dist.	13759 Jan 28 18:00	17° ≈ 52'47	6.27338 AU	evening set	13764 Jun 15 17:38	15° © 39'03	
morning rise	13759 Feb 09 03:23	20° ≈ 24'57		max. Earth dist.	13764 Jun 26 04:12	18° © 00'57	6.25156 AU
	13759 Mar 27 09:12	0° ℋ					
retrograde	13759 Mar 27 09:12 13759 Jun 13 06:15	8° ¥ 15′25		conjunction	13764 Jun 28 14:01	18° © 33'49	-0°32'17
retrograde opposition			0°49'23	conjunction minimum elong	13764 Jun 28 14:01 13764 Jun 28 14:01	18°©33'49 18°©33'49	-0°32'17 0°33'19
•	13759 Jun 13 06:15	8° ¥ 15′25	0°49'23 4.35523 AU				
opposition	13759 Jun 13 06:15 13759 Aug 12 19:11	8° 光 15'25 3° 光 14'41		minimum elong	13764 Jun 28 14:01	18° © 33'49	
opposition	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01	8°¥15'25 3°¥14'41 3°¥23'00		minimum elong	13764 Jun 28 14:01 13764 Jul 11 09:59	18°533'49 21°528'41	
opposition min. Earth dist.	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05	8° ¥ 15'25 3° ¥ 14'41 3° ¥ 23'00 30° R≈		minimum elong morning rise	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02	18°\$33'49 21°\$28'41 0°Ω	0°33'19
opposition min. Earth dist.	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47	8° ¥ 15'25 3° ¥ 14'41 3° ¥ 23'00 30° R≈ 28° ≈ 14'33		minimum elong morning rise retrograde	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07	0°33'19 -0°52'31
opposition min. Earth dist. direct	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26	8° ₭ 15'25 3° ₭ 14'41 3° ₭ 23'00 30° ₨ 28° ≈ 14'33 0° ₭		minimum elong morning rise retrograde opposition	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40	0°33'19 -0°52'31
opposition min. Earth dist. direct	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26	8° ★ 15′25 3° ★ 14′41 3° ★ 23′00 30° R≈ 28° ≈ 14′33 0° ★ 15° ★ 49′49		minimum elong morning rise retrograde opposition	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Jan 14 19:33	18°\$33'49 21°\$28'41 0°\$\ldot\text{0}\text{9}\text{0}\text{53'07} 4°\$\ldot\text{0}\text{58'40} 4°\$\ldot\text{0}\text{46'34}	0°33'19 -0°52'31
opposition min. Earth dist. direct evening set	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15	8° ★ 15′25 3° ★ 14′41 3° ★ 23′00 30° R≈ 28° ≈ 14′33 0° ★ 15° ★ 49′49	4.35523 AU	minimum elong morning rise retrograde opposition min. Earth dist.	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Jan 14 19:33 13765 Mar 13 13:09	18°\$33'49 21°\$28'41 0°\$\mathcal{L}\$ 9°\$\mathcal{L}\$53'07 4°\$\mathcal{L}\$58'40 4°\$\mathcal{L}\$46'34 30°\$\$\mathcal{R}\$\$\mathcal{G}\$	0°33'19 -0°52'31
opposition min. Earth dist. direct evening set conjunction	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15	8° ★15'25 3° ★14'41 3° ★23'00 30° R≈ 28° ≈14'33 0° ★ 15° ★49'49	4.35523 AU 0°29'22	minimum elong morning rise retrograde opposition min. Earth dist.	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Jan 14 19:33 13765 Mar 13 13:09 13765 Mar 15 00:38	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Omega\$29°\$\Omega\$59'47	0°33'19 -0°52'31
opposition min. Earth dist. direct evening set conjunction minimum elong	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 28 06:55	8° ★15'25 3° ★14'41 3° ★23'00 30° R≈ 28° ≈14'33 0° ★ 15° ★49'49 18° ★42'01 18° ★42'02	4.35523 AU 0°29'22 0°29'41	minimum elong morning rise retrograde opposition min. Earth dist.	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Mar 14 19:33 13765 Mar 15 00:38 13765 Mar 16 12:08	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Omega\$ 29°\$\Omega\$59'47 0°\$\Omega\$	0°33'19 -0°52'31
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 28 06:55 13760 Feb 29 07:25	8° ★15'25 3° ★14'41 3° ★23'00 30° R≈ 28° ≈14'33 0° ★ 15° ★49'49 18° ★42'01 18° ★42'02 18° ★55'18	4.35523 AU 0°29'22 0°29'41	minimum elong morning rise retrograde opposition min. Earth dist. direct	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Mar 14 19:33 13765 Mar 15 00:38 13765 Mar 16 12:08 13765 Jul 01 20:30	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Omega\$ 29°\$\Omega\$59'47 0°\$\Omega\$ 15°\$\Omega\$ 18°\$\Omega\$59'40	0°33'19 -0°52'31
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 28 06:55 13760 Feb 29 07:25 13760 Mar 12 12:12	8° ★15'25 3° ★14'41 3° ★23'00 30° R≈ 28° ≈14'33 0° ★ 15° ★49'49 18° ★42'01 18° ★42'02 18° ★55'18 21° ★33'25	4.35523 AU 0°29'22 0°29'41	minimum elong morning rise retrograde opposition min. Earth dist. direct	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Jan 14 19:33 13765 Mar 13 13:09 13765 Mar 15 00:38 13765 Mar 16 12:08 13765 Jul 01 20:30 13765 Jul 19 03:56	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Omega\$ 29°\$\Omega\$59'47 0°\$\Omega\$ 15°\$\Omega\$ 18°\$\Omega\$59'40	0°33'19 -0°52'31 4.16050 AU
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opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 29 07:25 13760 Apr 23 03:11 13760 Apr 23 03:11 13760 Jul 12 08:17 13760 Sep 11 07:15 13760 Sep 11 00:34 13760 Oct 11 23:46 13760 Nov 12 04:11 13760 Dec 13 16:23 13761 Mar 30 01:47 13761 Mar 30 01:47 13761 Mar 29 23:18 13761 Mar 29 19:21 13761 Apr 12 02:38 13761 May 26 06:08 13761 Aug 10 21:15	8° ¥15'25 3° ¥14'41 3° ¥23'00 30° № 28° ≈14'33 0° ¥ 15° ¥49'49 18° ¥42'01 18° ¥42'02 18° ¥55'18 21° ¥33'25 0° Y 8° ¥31'21 3° ¥33'34 3° ¥35'44 30° № 28° ¥32'55 0° Y 15° ¥39'08 18° ¥26'31 18° ¥26'31 18° ¥25'12 18° ¥25'12 18° ¥27'51 18° ¥27'51 18° ¥27'51 18° ¥23'06 21° ¥13'05 0° ₺ 7° ₺47'28	4.35523 AU 0°29'22 0°29'41 6.42508 AU 0°33'34 4.47643 AU 0°15'26 0°15'13 6.50755 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Mar 13 13:09 13765 Mar 15 00:38 13765 Mar 16 12:08 13765 Jul 01 20:30 13765 Jul 19 03:56 13765 Jul 30 06:21 13765 Aug 01 03:01 13765 Aug 01 03:02 13765 Aug 14 02:33 13765 Aug 14 02:33 13765 Pec 20 21:55 13766 Feb 18 15:06 13766 Feb 19 13:38 13766 Apr 19 01:22 13766 Sep 06 05:10 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 14 07:33 13766 Sep 14 07:33 13766 Sep 19 11:00	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Sigma\$ 29°\$\Omega\$59'47 0°\$\Omega\$ 15°\$\Omega\$10 22°\$\Omega\$03'10 22°\$\Omega\$03'10 22°\$\Omega\$03'10 25°\$\Omega\$07'17 0°\$\mathred{m}\$14°\$\mathred{m}\$48'46 9°\$\mathred{m}\$52'36 9°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 28°\$\mathred{m}\$01'32 28°\$\mathred{m}\$01'32 27°\$\mathred{m}\$52'14 0°\$\Omega\$ 1°\$\Omega\$14'58	0°33'19 -0°52'31 4.16050 AU 6.07224 AU -0°35'09 0°35'53 -0°47'59 3.99255 AU -0°25'22 0°25'30
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 28 06:55 13760 Feb 29 07:25 13760 Apr 23 03:11 13760 Jul 12 08:17 13760 Sep 11 07:15 13760 Sep 11 00:34 13760 Oct 11 23:46 13760 Nov 12 04:11 13760 Dec 13 16:23 13761 Mar 16 23:28 13761 Mar 30 01:47 13761 Mar 29 23:18 13761 Mar 29 19:21 13761 Apr 12 02:38 13761 May 26 06:08 13761 Aug 10 21:15 13761 Oct 11 00:58	8° ¥15'25 3° ¥14'41 3° ¥23'00 30° № 28° ≈14'33 0° ¥ 15° ¥49'49 18° ¥42'01 18° ¥42'02 18° ¥55'18 21° ¥33'25 0° Y 8° ¥31'21 3° ¥33'34 3° ¥35'44 30° № 15° ¥39'08 18° ¥26'31 18° ¥26'31 18° ¥25'12 18° ¥25'12 18° ¥25'16	4.35523 AU 0°29'22 0°29'41 6.42508 AU 0°33'34 4.47643 AU 0°15'26 0°15'13 6.50755 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Mar 13 13:09 13765 Mar 15 00:38 13765 Mar 16 12:08 13765 Jul 01 20:30 13765 Jul 19 03:56 13765 Jul 30 06:21 13765 Aug 01 03:01 13765 Aug 01 03:02 13765 Aug 14 02:33 13765 Aug 14 02:33 13765 Sep 04 05:10 13765 Pec 20 21:55 13766 Feb 18 15:06 13766 Feb 19 13:38 13766 Apr 19 01:22 13766 Sep 06 05:10 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 19 11:00 13767 Jan 28 17:53	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Sigma\$ 29°\$\Sigma\$59'47 0°\$\Omega\$15°\$\Omega\$10 22°\$\Omega\$03'10 22°\$\Omega\$03'10 22°\$\Omega\$03'10 25°\$\Omega\$07'17 0°\$\mathred{m}\$14\Sigma\$46'46 9°\$\mathred{m}\$52'36 9°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 28°\$\mathred{m}\$01'32 28°\$\mathred{m}\$01'32 27°\$\mathred{m}\$52'14 0°\$\mathred{n}\$ 1°\$\mathred{n}\$14'58 21°\$\mathred{n}\$56'55	0°33'19 -0°52'31 4.16050 AU 6.07224 AU -0°35'09 0°35'53 -0°47'59 3.99255 AU -0°25'22 0°25'30 5.93194 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 29 07:25 13760 Mar 12 12:12 13760 Apr 23 03:11 13760 Jul 12 08:17 13760 Sep 11 07:15 13760 Sep 11 00:34 13760 Oct 11 23:46 13760 Nov 12 04:11 13760 Dec 13 16:23 13761 Mar 30 01:47 13761 Mar 30 01:47 13761 Mar 29 23:18 13761 Mar 29 19:21 13761 Apr 12 02:38 13761 May 26 06:08 13761 Aug 10 21:15 13761 Oct 11 00:58 13761 Oct 11 14:45	8° ¥15'25 3° ¥14'41 3° ¥23'00 30° № 28° ≈14'33 0° ¥ 15° ¥49'49 18° ¥42'01 18° ¥42'02 18° ¥55'18 21° ¥33'25 0° Ŷ 8° Ŷ31'21 3° Ŷ35'44 30° ₽ 28° ¥32'55 0° Ŷ 15° Ŷ39'08 18° Ŷ26'31 18° Ŷ26'31 18° Ŷ25'12 18° Ŷ25'12 18° Ŷ25'12 18° Ŷ27'51 18° Ŷ25'12 28° ¥34'41	4.35523 AU 0°29'22 0°29'41 6.42508 AU 0°33'34 4.47643 AU 0°15'26 0°15'13 6.50755 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Jan 14 19:33 13765 Mar 13 13:09 13765 Mar 15 00:38 13765 Mar 16 12:08 13765 Jul 01 20:30 13765 Jul 19 03:56 13765 Jul 30 06:21 13765 Aug 01 03:01 13765 Aug 01 03:02 13765 Aug 14 02:33 13765 Aug 14 02:33 13765 Sep 04 05:10 13765 Pec 20 21:55 13766 Feb 18 15:06 13766 Feb 19 13:38 13766 Apr 19 01:22 13766 Aug 24 00:53 13766 Sep 06 05:10 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 19 11:00 13767 Jan 28 17:53 13767 Mar 29 00:28	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Sigma\$ 29°\$\S\$59'47 0°\$\Omega\$ 15°\$\Omega\$110 22°\$\Omega\$03'10 22°\$\Omega\$03'10 22°\$\Omega\$03'10 25°\$\Omega\$07'17 0°\$\mathred{m}\$ 14°\$\mathred{m}\$48'46 9°\$\mathred{m}\$52'36 9°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 28°\$\mathred{m}\$01'32 28°\$\mathred{m}\$01'32 27°\$\mathred{m}\$52'14 0°\$\mathred{m}\$ 1°\$\mathred{m}\$14'58 21°\$\mathred{m}\$56'55 16°\$\mathred{m}\$58'03	0°33'19 -0°52'31 4.16050 AU 6.07224 AU -0°35'09 0°35'53 -0°47'59 3.99255 AU -0°25'22 0°25'30 5.93194 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	13759 Jun 13 06:15 13759 Aug 12 19:11 13759 Aug 11 18:01 13759 Sep 08 17:05 13759 Oct 12 14:47 13759 Nov 15 21:26 13760 Feb 15 00:15 13760 Feb 28 06:54 13760 Feb 28 06:55 13760 Feb 29 07:25 13760 Apr 23 03:11 13760 Jul 12 08:17 13760 Sep 11 07:15 13760 Sep 11 00:34 13760 Oct 11 23:46 13760 Nov 12 04:11 13760 Dec 13 16:23 13761 Mar 16 23:28 13761 Mar 30 01:47 13761 Mar 29 23:18 13761 Mar 29 19:21 13761 Apr 12 02:38 13761 May 26 06:08 13761 Aug 10 21:15 13761 Oct 11 00:58	8° ¥15'25 3° ¥14'41 3° ¥23'00 30° № 28° ≈14'33 0° ¥ 15° ¥49'49 18° ¥42'01 18° ¥42'02 18° ¥55'18 21° ¥33'25 0° Y 8° ¥31'21 3° ¥33'34 3° ¥35'44 30° № 15° ¥39'08 18° ¥26'31 18° ¥26'31 18° ¥25'12 18° ¥25'12 18° ¥25'16	4.35523 AU 0°29'22 0°29'41 6.42508 AU 0°33'34 4.47643 AU 0°15'26 0°15'13 6.50755 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	13764 Jun 28 14:01 13764 Jul 11 09:59 13764 Aug 19 23:02 13764 Nov 13 21:34 13765 Jan 13 06:23 13765 Mar 13 13:09 13765 Mar 15 00:38 13765 Mar 16 12:08 13765 Jul 01 20:30 13765 Jul 19 03:56 13765 Jul 30 06:21 13765 Aug 01 03:01 13765 Aug 01 03:02 13765 Aug 14 02:33 13765 Aug 14 02:33 13765 Sep 04 05:10 13765 Pec 20 21:55 13766 Feb 18 15:06 13766 Feb 19 13:38 13766 Apr 19 01:22 13766 Sep 06 05:10 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 06 05:11 13766 Sep 19 11:00 13767 Jan 28 17:53	18°\$33'49 21°\$28'41 0°\$\Omega\$ 9°\$\Omega\$53'07 4°\$\Omega\$58'40 4°\$\Omega\$46'34 30°\$\Sigma\$ 29°\$\S\$59'47 0°\$\Omega\$ 15°\$\Omega\$110 22°\$\Omega\$03'10 22°\$\Omega\$03'10 22°\$\Omega\$03'10 25°\$\Omega\$07'17 0°\$\mathred{m}\$ 14°\$\mathred{m}\$48'46 9°\$\mathred{m}\$52'36 9°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 4°\$\mathred{m}\$45'09 28°\$\mathred{m}\$01'32 28°\$\mathred{m}\$01'32 27°\$\mathred{m}\$52'14 0°\$\mathred{m}\$ 1°\$\mathred{m}\$14'58 21°\$\mathred{m}\$56'55 16°\$\mathred{m}\$58'03	0°33'19 -0°52'31 4.16050 AU 6.07224 AU -0°35'09 0°35'53 -0°47'59 3.99255 AU -0°25'22 0°25'30 5.93194 AU

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	13767 Sep 21 02:48	0° M ₊		behind sun begin	13773 Apr 03 02:13	22° Y ′38'31	
evening set	13767 Sep 30 21:33	2°M22'09		behind sun end	13773 Apr 03 12:14	22° Y '43'50	
				max. Earth dist.	13773 Apr 02 21:49	22° Y '36'10	6.51265 AU
conjunction	13767 Oct 14 07:35	5° ™ 39'27	-0°05'07	morning rise	13773 Apr 16 07:19	25° Y '27'20	
minimum elong	13767 Oct 14 07:34	5°M39'27	0°04'36		13773 May 08 05:44	0°8	
behind sun begin	13767 Oct 13 23:25	5°M34'28		retrograde	13773 Aug 15 00:19	12° 8 00'57	
behind sun end	13767 Oct 14 15:44	5°M44'26		opposition	13773 Oct 15 05:06	7° 8 05'53	0°05'57
max. Earth dist.	13767 Oct 15 06:47	5° ™ 53'42	5.88881 AU	min. Earth dist.	13773 Oct 15 21:08	7° 8 00'45	4.51439 AU
morning rise	13767 Oct 27 19:41	8°M57'48		direct	13773 Dec 16 17:03	2° 8 05'03	
C	13767 Nov 22 05:16	15° ™		desc. node	13774 Jan 10 19:36	3° 8 00'21	
asc. node	13768 Jan 11 07:14	24°M59'46			13774 Mar 31 11:48	15° 8	
retrograde	13768 Mar 07 11:30	29°M50'21		evening set	13774 Apr 20 06:58	19° 8 08'00	
opposition	13768 May 05 17:09	24°M48'27	0°10'27	max. Earth dist.	13774 May 01 16:37	21° 8 34'35	6.49302 AU
min. Earth dist.	13768 May 04 13:58	24°M57'40	3.91229 AU				
direct	13768 Jul 02 17:33	19°M52'53		conjunction	13774 May 03 05:22	21° 8 54'20	-0°05'01
	13768 Sep 24 12:16	0° ∡ ¹		minimum elong	13774 May 03 05:21	21° 8 54'20	0°05'47
evening set	13768 Nov 07 05:49	9° ∡ ¹55'47		behind sun begin	13774 May 02 21:42	21° 8 50'15	
				behind sun end	13774 May 03 13:00	21° 8 58'25	
conjunction	13768 Nov 20 19:20	13° ∡ 11′06	0°17'15	morning rise	13774 May 16 02:14	24° 8 40'03	
minimum elong	13768 Nov 20 19:19	13° ∡ 11′06	0°18'13		13774 Jun 10 17:37	$\Pi^{\circ}0$	
max. Earth dist.	13768 Nov 23 01:21	13° ∡ ¹43'34	5.96277 AU	retrograde	13774 Sep 14 07:42	11° Ⅱ 25'49	
morning rise	13768 Dec 04 10:11	16° ∡ ¹26'55		opposition	13774 Nov 14 10:06	6° Ⅲ 32′00	-0°20'21
	13769 Feb 05 11:19	5°0		min. Earth dist.	13774 Nov 15 18:56	6° Ⅱ 21'30	4.45042 AU
retrograde	13769 Apr 13 06:45	6° る 33'39		direct	13775 Jan 15 21:10	1°Ⅲ31′13	
min. Earth dist.	13769 Jun 10 04:15	1° る 43'16	4.03470 AU	evening set	13775 May 20 15:49	18° Ⅱ 57'45	
opposition	13769 Jun 11 18:54	1° る 30'11	0°39'30	max. Earth dist.	13775 May 31 06:45	21° Ⅱ 17'40	6.38844 AU
	13769 Jun 23 01:49	30°₽ ₰					
direct	13769 Aug 09 09:55	26° ₹ 32'55		conjunction	13775 Jun 02 12:20	21° Ⅱ 47'12	
	13769 Sep 25 08:46	0°ප		minimum elong	13775 Jun 02 12:19	21° Ⅲ 47'11	0°23'00
evening set	13769 Dec 14 07:00	15° る 46'22		morning rise	13775 Jun 15 07:33	24° Ⅲ 36′18	
					13775 Jul 10 13:20	0 \circ	
conjunction	13769 Dec 27 20:03	18° る 54'08	0°32'05	retrograde	13775 Oct 16 08:21	12° © 04'35	
minimum elong	13769 Dec 27 20:02	18° る 54'07		opposition	13775 Dec 16 03:57	7° © 10'52	
max. Earth dist.	13769 Dec 30 08:43	19° る 29'12	6.12051 AU	min. Earth dist.	13775 Dec 17 19:44	6° 9 58'04	4.31116 AU
morning rise	13770 Jan 10 09:43	22° る 01'47		direct	13776 Feb 15 21:37	2° © 10'48	
	13770 Feb 15 18:27	0° ≈		evening set	13776 Jun 20 07:54	20°522'19	
retrograde	13770 May 17 02:56	10° ≈ 53'44		max. Earth dist.	13776 Jun 30 20:16	22°5546'06	6.22423 AU
min. Earth dist.	13770 Jul 14 16:43		4.21088 AU				
opposition	13770 Jul 16 05:21	5°≈50'58	0°52'16	conjunction	13776 Jul 03 04:33	23°5518'19	
direct	13770 Sep 13 22:56	0°≈51'53		minimum elong	13776 Jul 03 04:33	23°9518'18	0°34'22
	13770 Dec 30 01:23	15° ≈		morning rise	13776 Jul 16 00:48	26°5514'27	
evening set	13771 Jan 18 00:44	19° ≈ 07'37			13776 Aug 01 18:37	0°N	
	12771 1 21 10 40	2200(110	0025115	retrograde	13776 Nov 19 01:06	14°Ω50'23	0053103
conjunction	13771 Jan 31 10:49	22°≈06'18	0°35'15	opposition	13777 Jan 18 06:43	9° Ω 55'47	
minimum elong	13771 Jan 31 10:49	22°≈06'18	0°35'59	min. Earth dist.	13777 Jan 19 19:20	9° Ω 43'51 4° Ω 57'15	4.13287 AU
max. Earth dist. morning rise	13771 Feb 02 08:48 13771 Feb 13 20:20	22°≈31'51 25°≈04'23	6.29984 AU	direct	13777 Mar 19 20:59 13777 Jun 13 08:51	4°865/15 15°Ω	
morning rise	13771 Feb 13 20.20 13771 Mar 08 18:03	23 ≈ 04 23 0° ∺		evening set	13777 Jul 13 08.51 13777 Jul 24 02:59	13 δι 24° Ω 06'08	
retrograde	13771 Jun 17 14:19	12°) 45'15		max. Earth dist.	13777 Aug 04 08:38	26°Ω46'02	6.04694 AU
min. Earth dist.	13771 Aug 16 06:09	7° H 52'20	4.37822 AU	max. Earth dist.	13/// Aug 04 00.36	20 6640 02	0.04094 AU
opposition	13771 Aug 10 00:09	7°) 45'00	0°47'48	conjunction	13777 Aug 06 02:42	27° Ω 11'03	-0°34'31
direct	13771 Oct 17 04:55	2°) (44'49	0 47 40	minimum elong	13777 Aug 06 02:42	27° Ω 11'03	
evening set	13772 Feb 19 10:54	20°) 14'07		minimum ciong	13777 Aug 17 22:55	0° m)	0 33 11
evening set	15//2100 17 10.54	20 /(140/		morning rise	13777 Aug 19 03:05	ريبان 0° m و 16'41	
conjunction	13772 Mar 03 16:50	23° ¥ 05'22	0°27'45	retrograde	13777 Dec 26 08:25	20° m/09'04	
minimum elong	13772 Mar 03 16:50	23°\(\)(05'23	0°27'59	opposition	13777 Bec 20 08:23 13778 Feb 24 00:17	15° m) 12'37	-0°45'40
max. Earth dist.	13772 Mar 04 12:04	23°) 15'45	6.44294 AU	min. Earth dist.	13778 Feb 24 18:19		3.97250 AU
morning rise	13772 Mar 16 21:34	25°\(\)\(\)\(\)\(\)\(\)	5271710	direct	13778 Apr 24 05:01	10° m) 16'10	5.5,250110
2110111111g 1150	13772 Mai 10 21:34 13772 Apr 05 06:25	25 γ (35 30		uncot	13778 Aug 28 06:48	0∘ ⊽	
retrograde	13772 Jul 16 11:56	12° Υ '48'21		evening set	13778 Aug 29 08:30	0° ჲ 15'35	
opposition	13772 Sep 15 11:56	7° Υ 50'57	0°30'30	o. oming soc	15,7011ag 27 00.30	· —.555	
min. Earth dist.	13772 Sep 15 11:30 13772 Sep 15 08:18	7° Υ ′52'07	4.48826 AU	conjunction	13778 Sep 11 13:34	3° ჲ 28'58	-0°22'57
direct	13772 Sep 15 08:18 13772 Nov 16 11:30	2° Υ 50'15		minimum elong	13778 Sep 11 13:35	3° <u>₽</u> 28'58	
evening set	13772 Nov 10 11:30 13773 Mar 21 05:16	19° Υ 54'10		max. Earth dist.	13778 Sep 11 04:06	3° ≏ 23'11	5.91938 AU
2.0	.5,,5 mai 21 05.10	17 1 27 10		morning rise	13778 Sep 24 20:21	6° £ 43'27	2.,1,30110
conjunction	13773 Apr 03 07:13	22° Y '41'10	0°13'02	retrograde	13779 Feb 03 07:16	27° £ 30'05	
minimum elong	13773 Apr 03 07:13	22° Υ 41'11		opposition	13779 Apr 03 13:37	22° ⊆ 30'41	-0°19'26
				- F F			

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min. Earth dist.	13779 Apr 03 06:09	22° ჲ 33'12	3.89233 AU	evening set	13785 Mar 25 09:38	24° Y ′04'59	
direct	13779 May 31 19:03	17° ≙ 35'29				••	
	13779 Sep 02 17:38	0°M		conjunction	13785 Apr 07 10:58	26° Y 51'46	0°10'39
evening set	13779 Oct 06 08:39	7° M 54'11		minimum elong	13785 Apr 07 10:58	26° Y 51'46	0°10'16
conjunction	13779 Oct 19 19:26	11°M.11'31	0001140	behind sun begin behind sun end	13785 Apr 07 04:37 13785 Apr 07 17:19	26°Y48'23 26°Y55'08	
minimum elong	13779 Oct 19 19:27			max. Earth dist.	13785 Apr 0/ 17.19 13785 Apr 06 20:02	26° Υ 43'48	6.51316 AU
behind sun begin	13779 Oct 19 11:06	11°M06'25	0 01 11	morning rise	13785 Apr 00 20:02 13785 Apr 20 10:44	29° Y 37'45	0.31310 AC
behind sun end	13779 Oct 20 03:49	11°M16'37		morning rise	13785 Apr 22 04:46	0°8	
max. Earth dist.	13779 Oct 21 01:52	11°M30'09	5.89508 AU		13785 Jul 21 23:07	15° 8	
morning rise	13779 Nov 02 08:00	14°M29'46		retrograde	13785 Aug 19 04:19	16° 8 12'01	
	13779 Nov 04 09:50	15° ™			13785 Sep 16 07:23	15° ₹ 8	
asc. node	13779 Nov 20 14:35	18° M 51'59		opposition	13785 Oct 19 08:35	11° 8 17'11	0°02'16
	13780 Jan 13 19:54	0° ∡ 7		min. Earth dist.	13785 Oct 20 03:33	11° 8 11'06	4.50810 AU
retrograde	13780 Mar 12 20:51	5° ∡ 17'28		desc. node	13785 Nov 20 23:26	7° 8 35'18	
min. Earth dist.	13780 May 09 20:49	0° ∡ °25′13	3.92749 AU	direct	13785 Dec 20 21:04	6° 8 16'18	
opposition	13780 May 11 02:21	0° ∡ 15'12	0°15'13		13786 Mar 13 22:53	15° 8	
	13780 May 12 23:12	30°RM.		evening set	13786 Apr 24 11:34	23° 8 22'03	C 100 10 1 X X
direct	13780 Jul 08 04:16	25°M19'27		max. Earth dist.	13786 May 05 19:12	25° 8 47'57	6.48042 AU
evening set	13780 Aug 31 16:29 13780 Nov 12 13:38	0° द्र ⁷ 15° द्र ⁷ 15′10		conjunction	13786 May 07 09:50	26° 8 08'46	0007122
evening set	13/80 NOV 12 13.38	13 × 13 10		minimum elong	13786 May 07 09:30 13786 May 07 09:49	26° 8 08'46	0°08'20
conjunction	13780 Nov 26 03:05	18° ∡ ¹29'25	0°19'55	behind sun begin	13786 May 07 09:49	26° 8 04'59	0 08 20
minimum elong	13780 Nov 26 03:04	18° × 29'24	0°20'56	behind sun end	13786 May 07 02:47	26° 8 12'32	
max. Earth dist.	13780 Nov 28 11:05	19° х 02′52	5.98491 AU	morning rise	13786 May 20 06:16	28° 8 54'50	
morning rise	13780 Dec 09 18:01	21° ×7 44'07		5 5	13786 May 25 08:21	0°II	
S	13781 Jan 15 04:21	ರ°0		retrograde	13786 Sep 18 15:50	15° Ⅱ 45'41	
retrograde	13781 Apr 18 02:39	11° る 39'37		opposition	13786 Nov 18 18:08	10° Ⅱ 51'58	-0°23'49
min. Earth dist.	13781 Jun 15 02:31	6° る 49'32	4.06130 AU	min. Earth dist.	13786 Nov 20 03:45	10° Ⅱ 41′12	4.43241 AU
opposition	13781 Jun 16 18:22	6° ප 36'04	0°42'20	direct	13787 Jan 20 02:41	5° Ⅱ 51′20	
direct	13781 Aug 14 12:11	1° る 38'29		evening set	13787 May 25 00:20	23° Ⅱ 23'47	
evening set	13781 Dec 19 06:32	20° る 42'22		max. Earth dist.	13787 Jun 04 13:53	25° ∏ 43'42	6.36623 AU
conjunction	13782 Jan 01 19:11	23° る 48'40	0°33'13	conjunction	13787 Jun 06 20:37	26° ∏ 14'02	-0°23'59
minimum elong	13782 Jan 01 19:11	23°る48'39	0°34'13	minimum elong	13787 Jun 06 20:37	26° I I14'02	
max. Earth dist.	13782 Jan 04 05:59	24°る22'27	6.14902 AU	morning rise	13787 Jun 19 15:56	29° I 04'02	0 20 02
morning rise	13782 Jan 15 08:15	26° පි 54'46		5 5	13787 Jun 23 21:49	0°©	
C	13782 Jan 29 01:41	0° ≈		retrograde	13787 Oct 21 02:49	16° © 41'11	
	13782 May 02 14:42	15° ≈		opposition	13787 Dec 20 19:47	11° © 47'25	-0°44'41
retrograde	13782 May 21 15:06	15° ≈ 34'53		min. Earth dist.	13787 Dec 22 12:18	11° 5 34'21	4.28613 AU
	13782 Jun 09 11:39	15° R ≈		direct	13788 Feb 20 10:57	6°5947'32	
min. Earth dist.	13782 Jul 19 08:45	10° ≈ 43'46	4.23855 AU	evening set	13788 Jun 24 23:00	25° © 07'01	
opposition	13782 Jul 20 18:48	10° ≈ 32'23	0°52'33	max. Earth dist.	13788 Jul 05 12:45	27° © 32'26	6.19844 AU
direct	13782 Sep 18 18:07	5° ≈ 33'05					
	13782 Dec 12 02:29	15° ≈		conjunction	13788 Jul 07 19:59	28°504'12	
evening set	13783 Jan 22 15:05	23° ≈ 40′33		minimum elong	13788 Jul 07 19:59	28°504'12	0°35'10
i	12792 E-L 05 00.27	2600 027150	0024145		13788 Jul 16 05:15	0° Ω	
conjunction minimum elong	13783 Feb 05 00:37 13783 Feb 05 00:38	26°≈37'58 26°≈37'59	0°34'45 0°35'25	morning rise	13788 Jul 20 16:38 13788 Sep 27 21:18	1° Ω 01'36 15° Ω	
max. Earth dist.	13783 Feb 05 00.38 13783 Feb 06 19:25	20 ≈3739 27°≈01'37		retrograde	13788 Nov 24 02:32	19° Ω 48'13	
morning rise	13783 Feb 18 09:30	27 ≈ 01 37 29° ≈ 34'47	0.32440 AU	retrograde	13789 Jan 22 11:09	19° ₹.4 613	
morning risc	13783 Feb 20 07:36	0° ∺		opposition	13789 Jan 23 07:18	14° Ω 53'25	-0°53'08
retrograde	13783 Jun 21 17:37	17° ¥ 07'02		min. Earth dist.	13789 Jan 24 16:59	14° Ω 42'26	
opposition	13783 Aug 21 10:30	12°) €07'09	0°46'00	direct	13789 Mar 24 16:08	9° £ 55'13	
min. Earth dist.	13783 Aug 20 14:16	12°) 13′48	4.39823 AU		13789 May 22 00:59	15° Ω	
direct	13783 Oct 21 14:03	7°) €06'52		evening set	13789 Jul 29 02:13	29° Ω 11'48	
evening set	13784 Feb 23 18:23	24°) 31′13			13789 Aug 01 11:25	0° m	
				max. Earth dist.	13789 Aug 09 12:35	1° m 55'17	6.02610 AU
conjunction	13784 Mar 07 23:46	27°) €21'42	0°26'02				
minimum elong	13784 Mar 07 23:47	27° ∺ 21'42	0°26'12	conjunction	13789 Aug 11 02:28	2°Mp17'56	
max. Earth dist.	13784 Mar 08 14:42	27°) (29'44	6.45707 AU	minimum elong	13789 Aug 11 02:29	2° Mp 17'57	0°34'13
	13784 Mar 20 06:29	0° Υ		morning rise	13789 Aug 24 03:40	5° m 24'52	
morning rise	13784 Mar 21 03:45	0°Υ11'22		retrograde	13789 Dec 31 18:38	25° m 26'21	00.40157
retrograde	13784 Jul 20 14:09	16° Y 59'49	0027124	opposition	13790 Mar 01 08:29	20° m 29'30	
opposition	13784 Sep 19 14:46	12° Υ 02'50	0°27'24	min. Earth dist.	13790 Mar 01 23:30	20° Mp 24'31	3.95710 AU
min. Earth dist.	13784 Sep 19 14:38 13784 Nov 20 17:24	12° Υ 02'53 7° Υ 02'08	4.49584 AU	direct	13790 Apr 29 10:15	15°№33'17 0° <u>മ</u>	
direct	13/04 INOV 20 17:24	/ 10208			13790 Aug 10 23:14	0 ==	

evening set	13790 Sep 03 14:16	5° ≙ 36'55		conjunction minimum elong	13796 Mar 12 08:08 13796 Mar 12 08:09	1° Υ 42'22 1° Υ 42'23	0°24'09 0°24'14
conjunction	13790 Sep 16 20:17	8° £ 51'07	-0°20'22	max. Earth dist.	13796 Mar 12 19:22	1° Υ 48'24	6.46811 AU
minimum elong	13790 Sep 16 20:18	8° £ 51'08	0°20'19	morning rise	13796 Mar 25 11:32	4° Υ 31'24	0.10011110
max. Earth dist.	13790 Sep 16 17:20	8° £ 49'19	5.91100 AU	retrograde	13796 Jul 24 17:04	21°Υ16'39	
morning rise	13790 Sep 30 03:50	12° Ω 06'24	0.51100110	opposition	13796 Sep 23 19:16	16° Υ 20'02	0°24'05
morning rise	13790 Dec 27 15:57	0°M		min. Earth dist.	13796 Sep 23 21:00	16° Υ 19'28	4.50153 AU
retrograde	13791 Feb 08 18:41	2°M55'55		direct	13796 Nov 24 23:00	11° Υ 19'20	1.50155710
retrograde	13791 Mar 24 04:18	30°R Ω		evening set	13797 Mar 29 15:41	28° Υ 21'34	
opposition	13791 Mar 24 04:16 13791 Apr 08 23:55	27° £ 56'09	0°14'41	evening set	13797 Apr 06 08:55	0°8	
min. Earth dist.	13791 Apr 08 13:15	27° ⊆ 59'45	3.89207 AU		13/9/ Apr 00 08.33	0.0	
direct	13791 Apr 08 13:13 13791 Jun 06 03:31	27 ⊆ 3943 23° ⊆ 01'03	3.89207 AU	conjunction	13797 Apr 11 16:37	1° 8 08'10	0°08'09
direct		0°M		3	•	1°808'10	0°07'41
1	13791 Aug 12 17:21			minimum elong	13797 Apr 11 16:37	1° 8 04'19	0 0/41
asc. node	13791 Sep 28 02:29	10°M01'51		behind sun begin	13797 Apr 11 09:23	1° 8 12'01	
evening set	13791 Oct 11 17:11	13°M 18'18		behind sun end	13797 Apr 11 23:52		(51241 ATT
	13791 Oct 18 16:06	15°M		max. Earth dist.	13797 Apr 10 23:25	0° 8 58'59	6.51341 AU
	12501 0 . 25 0121	1.60% 2.512.0	0001122	morning rise	13797 Apr 24 15:45	3° 8 53'58	
conjunction	13791 Oct 25 04:24	16°M35'30	0°01'32		13797 Jun 21 11:55	15° 8	
minimum elong	13791 Oct 25 04:22	16°M35'29	0°02'13	retrograde	13797 Aug 23 09:39	20° 8 28'50	
behind sun begin	13791 Oct 24 20:01	16°M30'24		desc. node	13797 Oct 02 00:01	18° 8 11'09	
behind sun end	13791 Oct 25 12:44	16°M40'34		opposition	13797 Oct 23 14:13	15° 8 34'17	
max. Earth dist.	13791 Oct 26 14:08	16°M56'07	5.90267 AU	min. Earth dist.	13797 Oct 24 11:16	15° 8 27'33	4.50322 AU
morning rise	13791 Nov 07 17:37	19°M53'38			13797 Oct 28 01:34	15° ₹ 8	
	13791 Dec 21 19:32	0°⊀		direct	13797 Dec 25 03:42	10° 8 33'31	
retrograde	13792 Mar 18 00:30	10° ≯ 36'15			13798 Feb 20 03:47	15° 8	
min. Earth dist.	13792 May 14 23:34	5° ₹ 44'41	3.94211 AU	evening set	13798 Apr 28 17:52	27° 8 41'15	
opposition	13792 May 16 07:53	5° ∡ ³33'43	0°19'47		13798 May 09 11:29	Π $^{\circ}0$	
direct	13792 Jul 13 10:27	0° ∡¹ 37'45		max. Earth dist.	13798 May 09 21:32	0° Ⅱ 05′26	6.47090 AU
evening set	13792 Nov 17 18:50	20° ∡ ¹27'19					
				conjunction	13798 May 11 15:34	0° Ⅲ 28′08	-0°10'04
conjunction	13792 Dec 01 08:23	23° х¹ 40'40	0°22'25	minimum elong	13798 May 11 15:33	0° Ⅱ 28′08	0°10'55
minimum elong	13792 Dec 01 08:22	23° х 40′39	0°23'27	behind sun begin	13798 May 11 09:30	0° Ⅱ 24'53	
max. Earth dist.	13792 Dec 03 17:24	24° ⊀ 14'34	6.00502 AU	behind sun end	13798 May 11 21:37	0° Ⅱ 31′23	
morning rise	13792 Dec 14 23:13	26° х 54′21		morning rise	13798 May 24 11:51	3° Ⅱ 14′28	
	13792 Dec 28 05:56	ರ°ರ		retrograde	13798 Sep 23 02:06	20° Ⅱ 09'17	
retrograde	13793 Apr 22 22:55	16° ප් 40'03		opposition	13798 Nov 23 03:30	15° Ⅱ 15'36	-0°27'14
min. Earth dist.	13793 Jun 20 00:51	11° る 49'38	4.08449 AU	min. Earth dist.	13798 Nov 24 14:20	15° Ⅱ 04'27	4.41898 AU
opposition	13793 Jun 21 15:38	11° る 36'32	0°44'49	direct	13799 Jan 24 11:23	10° Ⅱ 15′01	
direct	13793 Aug 19 13:58	6° る 38'43		evening set	13799 May 29 09:06	27° Ⅲ 51'37	
evening set	13793 Dec 24 04:25	25° る 34'46			13799 Jun 08 01:03	0ංම	
				max. Earth dist.	13799 Jun 08 23:04	0°ഇ12'14	6.35000 AU
conjunction	13794 Jan 06 16:51	28° る 39'52	0°34'07				
minimum elong	13794 Jan 06 16:51	28° る 39'52	0°35'06	conjunction	13799 Jun 11 05:25	0°\$542'27	-0°25'55
max. Earth dist.	13794 Jan 09 03:10	29° ට 13'10	6.17320 AU	minimum elong	13799 Jun 11 05:24	0°9542'27	0°26'58
	13794 Jan 12 13:14	0° ≈		morning rise	13799 Jun 24 00:32	3°533'02	
morning rise	13794 Jan 20 05:26	1° ≈ 44'42		retrograde	13799 Oct 25 17:37	21°516'45	
	13794 Mar 27 01:41	15° ≈		opposition	13799 Dec 25 10:44	16°\$522'52	-0°46'45
retrograde	13794 May 26 01:18	20° ≈ 14'54		min. Earth dist.	13799 Dec 27 02:17	16°910'07	4.26822 AU
min. Earth dist.	13794 Jul 23 22:13	15° ≈ 23'51	4.26165 AU	direct	13800 Feb 24 22:23	11°523'11	
opposition	13794 Jul 25 07:32	15° ≈ 12'45	0°52'31	evening set	13800 Jun 30 12:26	29°5548'00	
	13794 Jul 26 21:51	15°R ≈			13800 Jul 01 09:24	0 $^{\circ}\Omega$	
direct	13794 Sep 23 09:58	10° ≈ 13'19		max. Earth dist.	13800 Jul 11 03:30	2° Ω 14'49	6.18016 AU
	13794 Nov 20 01:40	15° ≈					
evening set	13795 Jan 27 05:33	28° ≈ 14'18		conjunction	13800 Jul 13 09:27	2° Ω 45'59	-0°34'50
•	13795 Feb 04 06:08	0° ∀		minimum elong	13800 Jul 13 09:27	2° Ω 45'59	0°35'47
				morning rise	13800 Jul 26 06:31	5° Ω 44'18	
conjunction	13795 Feb 09 14:29	1° ℋ 10'40	0°34'03		13800 Sep 06 18:53	15° Ω	
minimum elong	13795 Feb 09 14:29	1°) 10'41	0°34'38	retrograde	13800 Nov 30 02:15	24° Ω 38'56	
max. Earth dist.	13795 Feb 11 04:33	1°) 31'38	6.34475 AU	opposition	13801 Jan 29 05:01	19° Ω 43'52	-0°52'54
morning rise	13795 Feb 22 22:46	4°) €06'25		min. Earth dist.	13801 Jan 30 13:22		4.09111 AU
retrograde	13795 Jun 26 00:30	21°) €31'37			13801 Mar 18 10:12	15°RΩ	
opposition	13795 Aug 25 17:30	16°) (32′13	0°43'57	direct	13801 Mar 30 11:17	14° Ω 45'48	
min. Earth dist.	13795 Aug 25 00:47	16°) (37'41	4.41438 AU		13801 Apr 11 11:21	15° Ω	
direct	13795 Oct 26 01:38	11°) €31'50	-		13801 Jul 17 06:08	0° mp	
evening set	13796 Feb 28 03:15	28°) 52'30		evening set	13801 Aug 03 21:12	4° Mp 07'27	
J	13796 Mar 04 09:27	0° Υ		2	<u> </u>	a · ′	
				conjunction	13801 Aug 16 22:09	7° m) 14'31	-0°32'33
				J		4	

13812 Jul 30 22:16

13812 Aug 19 13:42

morning rise

13807 Feb 15 03:21

conjunction

5°**)** 39'38 0°33'09

10°**Ω**32'13

15°€

retrograde	13812 Dec 05 05:01	29° Ω 37'12		opposition	13818 Aug 04 06:50	24° ≈ 26′20	0°51'34
opposition	13813 Feb 03 05:24	24° Ω 41'57		direct	13818 Oct 03 17:26	19° ≈ 26'33	
min. Earth dist.	13813 Feb 04 12:04	24° Ω 31'54	4.06807 AU		13819 Jan 02 13:41	0° ∀	
direct	13813 Apr 04 06:34	19° Ω 44'12		evening set	13819 Feb 06 08:24	7° ∺ 15'31	
	13813 Jun 29 02:37	0° m ∕					
evening set	13813 Aug 08 20:18	9° m 13′22		conjunction	13819 Feb 19 16:13	10°) €09'53	0°32'06
				minimum elong	13819 Feb 19 16:14	10° ₩ 09'54	0°32'34
conjunction	13813 Aug 21 21:48	12°Mp21'40	-0°31'10	max. Earth dist.	13819 Feb 21 00:15	10° ¥ 27'23	6.38290 AU
minimum elong	13813 Aug 21 21:49	12° m) 21'41		morning rise	13819 Mar 04 23:14	13° ¥ 03'35	
max. Earth dist.	13813 Aug 20 14:20			morning rise	13819 Jun 22 16:56	0° Υ	
morning rise	13813 Sep 04 00:36	15° Mp 30'55	3.77120 AO	retrograde	13819 Jul 05 10:08	0° Υ 15'17	
morning rise	*			retrograde			
	13813 Nov 10 19:54	0° ʊ			13819 Jul 18 01:28	30° ₹	002011.5
retrograde	13814 Jan 12 06:26	5° ≏ 47'50		opposition	13819 Sep 04 06:04	25°) 16'34	
opposition	13814 Mar 12 18:32	0° ჲ 50'15		min. Earth dist.	13819 Sep 03 17:39	25° ∺ 20'38	4.44561 AU
min. Earth dist.	13814 Mar 13 03:03	0° ჲ 47'24	3.93160 AU	direct	13819 Nov 04 20:23	20° 米 16′00	
	13814 Mar 19 02:01	30°R, Mp			13820 Jan 31 21:57	0 ° Υ	
direct	13814 May 10 12:26	25° m 54'24		evening set	13820 Mar 08 18:50	7° Ƴ 28'59	
	13814 Jun 30 07:19	0∘ ⊽					
evening set	13814 Sep 14 20:35	16° ≏ 05'05		conjunction	13820 Mar 21 22:35	10° Ƴ 17'32	0°20'05
8				minimum elong	13820 Mar 21 22:36	10° Ƴ 17'33	0°20'00
conjunction	13814 Sep 28 04:08	19° ჲ 20'43	-0°14'53	max. Earth dist.	13820 Mar 22 03:00	10° Υ 19'54	6.49023 AU
	13814 Sep 28 04:09	19° ⊆ 20'43		morning rise		13° Υ 05'14	0.47023 AO
minimum elong	*		0 14 38	•	13820 Apr 04 00:38	29° Y 43'53	
behind sun begin	13814 Sep 28 00:36	19° Ω 18'33		retrograde	13820 Aug 02 22:50		
behind sun end	13814 Sep 28 07:41	19° ≙ 22'53		opposition	13820 Oct 03 02:52	24° Y '47'50	0°17'13
max. Earth dist.	13814 Sep 28 10:07		5.89753 AU	min. Earth dist.	13820 Oct 03 09:31	24° Ƴ 45'42	4.51314 AU
morning rise	13814 Oct 11 13:26	22° ₽ 37'25		direct	13820 Dec 04 10:37	19° Ƴ 47'02	
	13814 Nov 11 19:57	0° M			13821 Mar 05 15:45	9° 8	
retrograde	13815 Feb 20 08:38	13°M31'18		evening set	13821 Apr 08 01:16	6° 8 47'19	
opposition	13815 Apr 20 12:49	8° M 30'44	-0°05'08	max. Earth dist.	13821 Apr 20 00:16	9° 8 20'14	6.51329 AU
min. Earth dist.	13815 Apr 19 20:35	8°M36'13	3.89234 AU		-		
direct	13815 Jun 17 14:39	3°M35'30		conjunction	13821 Apr 21 01:07	9° 8 33'30	0°03'07
asc. node	13815 Jun 17 02:22	3°M35'31		minimum elong	13821 Apr 21 01:05	9° 8 33'29	0°02'32
use. Houe	13815 Sep 15 01:48	15° ™		behind sun begin	13821 Apr 20 17:05	9° 8 29'14	0 0232
				behind sun end		9° 8 37'45	
evening set	13815 Oct 23 04:09	23°M50'21			13821 Apr 21 09:06		
		w		morning rise	13821 May 03 23:16	12° 8 18'54	
conjunction	13815 Nov 05 16:31	27°M07'23	0°07'47		13821 May 16 18:01	15° 8	
minimum elong	13815 Nov 05 16:31	27° M 07'23	0°08'37	desc. node	13821 Jun 27 13:06	22° 8 54'16	
behind sun begin	13815 Nov 05 09:15	27° ™ 02'59		retrograde	13821 Sep 01 18:57	28° 8 55'11	
behind sun end	13815 Nov 05 23:47	27° M 11'47		opposition	13821 Nov 01 23:23	24° 8 00'55	-0°08'56
max. Earth dist.	13815 Nov 07 10:34	27° M 32'58	5.91666 AU	min. Earth dist.	13821 Nov 03 01:18	23° 8 52'38	4.49100 AU
	13815 Nov 17 12:53	0° ∡ 7		direct	13822 Jan 03 13:30	19° 8 00'04	
morning rise	13815 Nov 19 06:39	0° ∡ ¹25'13			13822 Apr 08 06:22	$\Pi^{\circ}0$	
retrograde	13816 Mar 29 04:15	20° ₹ 58'21		evening set	13822 May 08 03:35	6° Ⅱ 12'29	
min. Earth dist.	13816 May 26 01:23	16° ₹ 07'19	3.96824 AU	max. Earth dist.	13822 May 19 01:30	8° Ⅲ 34'21	6.44683 AU
opposition	13816 May 27 12:32	15° ₹ 55'24	0°28'09	max. Lartii dist.	15022 Way 15 01.50	0 113421	0.44005710
	•	10° × 59'02	0 2009		12022 M 21 00-41	00T00100	0014150
direct	13816 Jul 24 17:49			conjunction	13822 May 21 00:41	9° I I00'00	
	13816 Nov 26 07:22	0°る		minimum elong	13822 May 21 00:40	9° I 100'00	0°15'50
evening set	13816 Nov 29 00:21	0° る 38'02		behind sun begin	13822 May 20 23:13	8° Ⅱ 59'12	
				behind sun end	13822 May 21 02:08	9° Ⅱ 00'47	
conjunction	13816 Dec 12 13:55	3° る 49'44		morning rise	13822 Jun 02 20:23	11° Ⅱ 47'01	
minimum elong	13816 Dec 12 13:55	3° る 49'43	0°27'50	retrograde	13822 Oct 02 20:44	28° Ⅱ 51'53	
max. Earth dist.	13816 Dec 15 00:55	4° る 24'30	6.04060 AU	opposition	13822 Dec 02 21:04	23° Ⅱ 58'13	-0°33'33
morning rise	13816 Dec 26 04:42	7° る 01'38		min. Earth dist.	13822 Dec 04 10:26	23° Ⅱ 46′14	4.38401 AU
retrograde	13817 May 03 09:55	26° පි 29'38		direct	13823 Feb 03 00:42	18° Ⅱ 57'43	
min. Earth dist.	13817 Jun 30 14:43	21° る 39'22	4.12592 AU		13823 May 07 11:15	0° ©	
opposition	13817 Jul 02 05:32	21° る 26'17	0°48'46	evening set	13823 Jun 08 02:06	6°9545'42	
direct	13817 Aug 30 10:22	16° පි 27'57	0 10 10	max. Earth dist.	13823 Jun 18 14:07	9°506'38	6.30624 AU
anoci	13817 Aug 30 10:22 13817 Dec 11 10:08	0°≈		max. Larui Wist.	15025 Jun 10 14.0/) 	5.50027 AU
					12022 1 20 22 22	00620112	0020116
evening set	13818 Jan 03 21:17	5° ≈ 10′25		conjunction	13823 Jun 20 22:22	9°©38'13	
				minimum elong	13823 Jun 20 22:21	9° © 38'13	0°30'19
conjunction	13818 Jan 17 09:05	8° ≈ 13'19	0°35'14	morning rise	13823 Jul 03 17:40	12° © 30'37	
minimum elong	13818 Jan 17 09:05	8° ≈ 13'19	0°36'07		13823 Oct 17 15:52	$0^{\circ}\Omega$	
max. Earth dist.	13818 Jan 19 16:24	8° ≈ 44'37	6.21708 AU	retrograde	13823 Nov 05 06:39	0° Ω 32'27	
morning rise	13818 Jan 30 20:38	11° ≈ 15'47			13823 Nov 23 19:55	30° ℝ ∽	
-	13818 Feb 16 19:05	15° ≈		opposition	13824 Jan 04 19:15	25°538'23	-0°50'04
retrograde	13818 Jun 04 22:25	29° ≈ 27'52		min. Earth dist.	13824 Jan 06 11:17	25°925'26	4.21823 AU
min. Earth dist.	13818 Aug 03 00:51	24°≈36'16	4.30421 AU	direct	13824 Mar 05 23:47	20°539'02	
Durin dist.	-501011 u g 05 00.51				-502 . Mai 05 25.47	_0 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	

	13824 May 27 23:12	$0^{\circ}\Omega$		opposition	13829 Jul 07 02:12	26° පි 25'43	0°50'13
evening set	13824 Jul 09 19:13	9° Ω 20′13		direct	13829 Sep 04 11:09	21° る 27'11	
max. Earth dist.	13824 Jul 20 13:18	11° Q 50'31	6.12793 AU		13829 Nov 22 04:13	0° ≈	
				evening set	13830 Jan 08 18:42	10° ≈ 00'39	
conjunction	13824 Jul 22 17:04	12° Ω 20'47					
minimum elong	13824 Jul 22 17:05	12° Ω 20'47	0°36'17	conjunction	13830 Jan 22 05:48	13°≈02'07	0°35'25
	13824 Aug 03 01:45	15° Ω		minimum elong	13830 Jan 22 05:49	13°≈02'07	0°36'16
morning rise	13824 Aug 04 15:17	15° Ω 21'50		max. Earth dist.	13830 Jan 24 10:03	13° ≈ 31'30	6.24455 AU
. 1	13824 Oct 15 10:02	0° Mp			13830 Jan 30 23:49	15° ≈	
retrograde	13824 Dec 10 09:17 13825 Feb 06 05:51	4°№39'06 30°R Ω		morning rise	13830 Feb 04 16:52 13830 Apr 17 17:40	16° ≈ 03'09 0° 米	
opposition	13825 Feb 08 07:50	29°Ω43'34	-0°51'18	retrograde	13830 Apr 17 17:40 13830 Jun 09 07:19	4° ∺ 04'39	
min. Earth dist.	13825 Feb 09 11:43	29° Ω 34'23	4.04105 AU	renograde	13830 Aug 01 14:40	30°R≈	
direct	13825 Apr 09 03:28	24° Ω 46'05	1.0 1103 110	opposition	13830 Aug 08 18:22	29° ≈ 03'27	0°50'34
	13825 Jun 06 22:15	0° m)		min. Earth dist.	13830 Aug 07 14:31	29°≈12'41	4.32953 AU
evening set	13825 Aug 13 21:39	14° m) 24'19		direct	13830 Oct 08 09:04	24° ≈ 03'31	
max. Earth dist.	13825 Aug 25 22:32	17° mp 18'37	5.96830 AU		13830 Dec 12 22:50	0° ∀	
				evening set	13831 Feb 10 21:09	11°) 45′30	
conjunction	13825 Aug 27 00:09	17° m 34'08	-0°29'33				
minimum elong	13825 Aug 27 00:10	17° m 34'08	0°29'53	conjunction	13831 Feb 24 04:30	14°) 38′49	0°30'49
morning rise	13825 Sep 09 03:46	20° Mp 44'52		minimum elong	13831 Feb 24 04:31	14°) 38′49	0°31'12
	13825 Oct 19 11:27	0∘ ⊽		max. Earth dist.	13831 Feb 25 09:45	14° ¥ 54'43	6.40432 AU
retrograde	13826 Jan 17 20:27	11° ≏ 11'42		morning rise	13831 Mar 09 10:38	17° ¥ 31'21	
opposition	13826 Mar 18 05:07	6° Ω 13'47			13831 May 13 19:44	0°Υ	
min. Earth dist.	13826 Mar 18 10:49		3.91535 AU	retrograde	13831 Jul 09 14:21	4° Y 36′06	
direct	13826 May 15 19:54	1° Ω 18'12		*4*	13831 Sep 05 15:43	30° ₹ ₩ 29° ₩ 37'51	0027122
evening set	13826 Sep 20 06:02	21° ≏ 33'39		opposition min. Earth dist.	13831 Sep 08 11:52 13831 Sep 08 01:54	29° X 3/31 29° X 41'06	0°36'33 4.46173 AU
conjunction	13826 Oct 03 14:27	24° £ 50'06	-0°11'51	direct	13831 Nov 09 05:06	24° X 37'18	4.401/3 AU
minimum elong	13826 Oct 03 14:27	24° ⊆ 50'06		direct	13832 Jan 11 06:19	0°Υ	
behind sun begin	13826 Oct 03 08:28	24° ⊆ 46'27	0 1131	evening set	13832 Mar 13 01:52	11° Υ 46'34	
behind sun end	13826 Oct 03 20:26	24° £ 53'46					
max. Earth dist.	13826 Oct 04 02:07	24° ≏ 57'15	5.88971 AU	conjunction	13832 Mar 26 04:51	14° Ƴ 34'30	0°17'52
morning rise	13826 Oct 17 00:46	28° ≏ 07'38		minimum elong	13832 Mar 26 04:52	14° Y ′34'31	0°17'43
	13826 Oct 24 17:59	0° M		max. Earth dist.	13832 Mar 26 03:23	14° Y 33'43	6.49992 AU
	13827 Jan 05 18:17	15° ™		morning rise	13832 Apr 08 06:26	17° Y ′21'38	
retrograde	13827 Feb 25 20:32	19°M03'22			13832 Jun 15 09:46	0° 8	
	13827 Apr 18 21:29	15°RM		retrograde	13832 Aug 07 03:37	3° 8 57'55	
min. Earth dist.	13827 Apr 25 04:00		3.89426 AU		13832 Sep 29 17:45	30° ₹ Υ	
opposition	13827 Apr 26 00:48	14°M02'24	-0°00'0'/	opposition	13832 Oct 07 06:52	29° Υ '02'12	0°13'38
asc. node	13827 Apr 27 09:18	13°M51'25		min. Earth dist.	13832 Oct 07 17:21	28° Y 58'49 24° Y 01'20	4.51597 AU
direct	13827 Jun 23 00:03 13827 Aug 23 12:54	9° ጤ 07'09 15° ጤ		direct	13832 Dec 08 16:54 13833 Feb 13 21:51	0°8	
evening set	13827 Oct 28 15:35	29°M19'49		evening set	13833 Apr 12 06:02	11° 8 01'46	
evening set	13827 Oct 28 13:33 13827 Oct 31 10:08	رجرالقال کے °0 آ ک		max. Earth dist.	13833 Apr 12 00:02		6.50905 AU
	13027 000 31 10.00	• ••		man. Bartir digt.	15055 11p1 2 . 01.11	15 05200	0.00000110
conjunction	13827 Nov 11 04:17	2° ∡ ³36'30	0°10'56	conjunction	13833 Apr 25 05:33	13° 8 47'56	0°00'28
minimum elong	13827 Nov 11 04:16	2° х 36′29	0°11'49	minimum elong	13833 Apr 25 05:32	13° 8 47'56	0°00'11
behind sun begin	13827 Nov 10 22:28	2° ∡ ³32'59		behind sun begin	13833 Apr 24 21:35	13° 8 43'42	
behind sun end	13827 Nov 11 10:05	2° х 40′00		behind sun end	13833 Apr 25 13:29	13° 8 52'09	
max. Earth dist.	13827 Nov 13 01:40	3° ∡ °04′02	5.92785 AU		13833 Apr 30 20:14	15° 8	
morning rise	13827 Nov 24 18:52	5° ₹ 53'55		desc. node	13833 May 05 21:45	16° 8 04'53	
retrograde	13828 Apr 03 08:49	26° ∡ 19'57		morning rise	13833 May 08 03:12	16° 8 33'20	
min. Earth dist.	13828 May 31 06:03	21° × ⁷ 29'13	3.98714 AU	_	13833 Jul 21 00:30	0°Щ	
opposition	13828 Jun 01 18:50	21° 🖈 16'44	0°32'05	retrograde	13833 Sep 06 00:16	3° Ⅱ 11'54	
direct	13828 Jul 30 03:18 13828 Nov 08 13:51	16° メ 20'03 0°る		annagiti	13833 Oct 23 14:19	30°R と 28° と 17'46	0012120
avanina aat				opposition	13833 Nov 06 05:07		
evening set	13828 Dec 04 06:22	5° る 51'20		min. Earth dist. direct	13833 Nov 07 08:30 13834 Jan 07 17:18	28° 8 09'01 23° 8 16'55	4.48003 AU
conjunction	13828 Dec 17 19:58	9° ට 01'51	0°28'42	direct	13834 Mar 20 02:04	0°Ⅱ	
minimum elong	13828 Dec 17 19:57	9° る 01'51	0°29'45	evening set	13834 May 12 10:03	10° Ⅱ 33'19	
max. Earth dist.	13828 Dec 20 09:25	9° ට 37'51	6.06518 AU	max. Earth dist.	13834 May 23 06:04	12° ∏ 54'41	6.42978 AU
morning rise	13828 Dec 31 10:16	12° る 12'25	-		y	_	-
-	13829 Apr 07 16:59	0° ≈		conjunction	13834 May 25 06:56	13° Ⅱ 21′22	-0°17'14
retrograde	13829 May 08 05:28	1° ≈ 28'55		minimum elong	13834 May 25 06:55	13° Ⅱ 21′22	0°18'12
	13829 Jun 07 12:07	30°Ŗ₹		morning rise	13834 Jun 07 02:25	16° Ⅱ 08'58	
min. Earth dist.	13829 Jul 05 11:52	26° ⋜ 38'36	4.15327 AU		13834 Aug 20 12:41	0₀ ©	

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retrograde	13834 Oct 07 10:53	3°520'39		behind sun end	13839 Nov 16 17:40	8° ∡ 102'45	
Č	13834 Nov 25 01:28	30°R Ⅱ		max. Earth dist.	13839 Nov 18 17:08	8° ∡ ³31'25	5.94552 AU
opposition	13834 Dec 07 08:53	28° II 27'02	-0°36'32	morning rise	13839 Nov 30 05:07	11° ∡ 17′26	
min. Earth dist.	13834 Dec 09 00:18		4.36174 AU		13840 Mar 08 08:43	0°ಕ	
direct	13835 Feb 07 10:27	23° II 26'38		retrograde	13840 Apr 08 11:11	1° ට 33'43	
4.1.000	13835 Apr 17 16:48	0ಂತಿ		realograde	13840 May 09 08:52	30°R ✓	
evening set	13835 Jun 12 13:43	11° © 21'49		min. Earth dist.	13840 Jun 05 08:22	26° ₹ 143'07	4.01110 AU
max. Earth dist.	13835 Jun 22 23:56		6.28030 AU	opposition	13840 Jun 06 22:04	26° х 30′21	0°35'38
man. Darun dige.	13032 Van 22 23.20	15 0 .250	0.20000110	direct	13840 Aug 04 09:53	21° х 33'24	0 35 30
conjunction	13835 Jun 25 10:00	14° © 15'23	-0°30'44	anov	13840 Oct 20 00:28	0°ප	
minimum elong	13835 Jun 25 09:59	14°915'23		evening set	13840 Dec 09 09:17	10°る55'25	
morning rise	13835 Jul 08 05:42	17°908'58	0 31 47	evening set	13040 Dec 07 07.17	10 033 23	
morning rise	13835 Sep 10 02:52	0° Ω		conjunction	13840 Dec 22 22:29	14° පි 04'31	0°30'20
retrograde	13835 Nov 10 04:53	5° Ω 21'27		minimum elong	13840 Dec 22 22:29	14°る04'30	0°31'23
opposition	13836 Jan 09 15:56	$0^{\circ}\Omega 27'11$	0°51'18	max. Earth dist.	13840 Dec 25 11:14	14°る39'52	6.09279 AU
min. Earth dist.	13836 Jan 11 06:22	0°Ω14'43		morning rise	13841 Jan 05 12:32	14 3 3932	0.09279 AU
iiiii. Eartii dist.	13836 Jan 13 03:47	30°R9	4.13041 AU	morning risc	13841 Mar 07 19:56	0°≈	
direct	13836 Mar 10 15:16	25°\$28'02		ratrograda		0 ∞ 6°≈17'54	
direct	13836 May 05 02:26	23 3 28 02 0° Ω		retrograde min. Earth dist.	13841 May 12 18:26 13841 Jul 10 05:00	0 ≈1734 1°≈27'33	4.18180 AU
avanina aat	,	14° Ω 18'20					
evening set	13836 Jul 14 15:06 13836 Jul 17 14:31			opposition	13841 Jul 11 18:50	1°≈14'51 30°Rる	0°51'14
E 4 E 4		15° Ω	C 10070 ATT	T	13841 Jul 21 04:45	• -	
max. Earth dist.	13836 Jul 25 13:41	16° Ω 52'07	6.10078 AU	direct	13841 Sep 09 07:37	26°る16'02	
	12026 1 1 27 12 26	170 000110	0025122		13841 Oct 29 06:04	0° ≈	
conjunction	13836 Jul 27 13:36	17° Ω 20'19		evening set	13842 Jan 13 12:02	14° ≈ 40'32	
minimum elong	13836 Jul 27 13:36	17° Ω 20'19	0°36'09		13842 Jan 14 23:03	15° ≈	
morning rise	13836 Aug 09 12:19	20° Ω 22'49			12040 1 26 22 42	170 - 10120	0025122
	13836 Sep 21 22:40	0° m)		conjunction	13842 Jan 26 22:43	17°≈40'38	0°35'22
retrograde	13836 Dec 15 18:55	9° m 51'44	0040150	minimum elong	13842 Jan 26 22:43	17°≈40'38	0°36'10
opposition	13837 Feb 13 14:17	4° m 55'57		max. Earth dist.	13842 Jan 28 23:59	18°≈08'11	6.27169 AU
min. Earth dist.	13837 Feb 14 16:13		4.01715 AU	morning rise	13842 Feb 09 08:59	20°≈40′13	
	13837 Apr 10 19:31	30°R Ω			13842 Mar 26 05:27	0°)	
direct	13837 Apr 14 05:52	29° Ω 58'50		retrograde	13842 Jun 13 14:30	8°) (31'45	
	13837 Apr 17 16:09	0° m)		min. Earth dist.	13842 Aug 12 01:46	3°) (39′14	4.35310 AU
evening set	13837 Aug 19 02:42	19° m 44'38		opposition	13842 Aug 13 02:42	3°) €31'01	0°49'18
max. Earth dist.	13837 Aug 31 08:41	22° m) 42'45	5.95021 AU		13842 Sep 11 20:57	30°R≈	
				direct	13842 Oct 12 22:12	28°≈30'59	
conjunction	13837 Sep 01 06:00	22° m 55'41			13842 Nov 13 06:48	0° ∀	
minimum elong	13837 Sep 01 06:01	22° m 55'42	0°27'52	evening set	13843 Feb 15 06:41	16° ∺ 06'46	
morning rise	13837 Sep 14 10:42	26° Mp 07'44					
	13837 Sep 30 16:25	0∘ ত		conjunction	13843 Feb 28 13:20	18° ¥ 59′06	0°29'25
retrograde	13838 Jan 23 09:37	16° ≙ 41'56		minimum elong	13843 Feb 28 13:21	18° ¥ 59′06	0°29'42
opposition	13838 Mar 23 17:44	11° ≏ 43'35		max. Earth dist.	13843 Mar 01 13:16	19° 米 12′03	6.42257 AU
min. Earth dist.	13838 Mar 23 18:19	11° ≏ 43'23	3.90558 AU	morning rise	13843 Mar 13 18:56	21°) € 50'41	
direct	13838 May 21 04:15	6° ≙ 48'10		_	13843 Apr 22 19:56	0° Υ	
evening set	13838 Sep 25 16:54	27° Ω 05'32		retrograde	13843 Jul 13 16:39	8° Ƴ 49'50	
	13838 Oct 07 13:38	0°M₊		opposition	13843 Sep 12 15:17	3° Y 51′58	0°33'44
				min. Earth dist.	13843 Sep 12 08:25	3° Y 54'12	4.47385 AU
conjunction	13838 Oct 09 02:00	0°M22'20			13843 Oct 16 21:49	30° R ₩	
minimum elong	13838 Oct 09 02:00	0°M22'20	0°08'16	direct	13843 Nov 13 11:12	28° ¥ 51′21	
behind sun begin	13838 Oct 08 18:39	0° M 17′51			13843 Dec 11 07:58	0° Υ	
behind sun end	13838 Oct 09 09:21	0°M26'50		evening set	13844 Mar 17 06:47	15° Y 58′21	
max. Earth dist.	13838 Oct 09 19:16	0°M32'56	5.88939 AU				
morning rise	13838 Oct 22 13:07	3°M40'14		conjunction	13844 Mar 30 09:26	18° Ƴ 45'55	0°15'37
	13838 Dec 11 05:21	15°M		minimum elong	13844 Mar 30 09:26	18° Y 45'55	0°15'24
retrograde	13839 Mar 03 06:46	24°M34'21		behind sun begin	13844 Mar 30 07:17	18° Ƴ 44'46	
asc. node	13839 Mar 08 23:36	24°M31'03		behind sun end	13844 Mar 30 11:35	18° Ƴ 47′03	
opposition	13839 May 01 12:17	19° M 32'52		max. Earth dist.	13844 Mar 30 04:48	18° Ƴ 43'27	6.50522 AU
min. Earth dist.	13839 Apr 30 12:23	19°M40'58	3.90343 AU	morning rise	13844 Apr 12 10:17	21° Y 32'37	
	13839 Jun 13 19:03	15°RML			13844 May 24 17:50	0° 8	
direct	13839 Jun 28 12:42	14°M37'28		retrograde	13844 Aug 11 05:28	8° 8 07'59	
	13839 Jul 13 06:41	15°M		opposition	13844 Oct 11 09:33	3° 8 12'37	0°10'03
	13839 Oct 13 23:16	0° ∡ ¹		min. Earth dist.	13844 Oct 11 22:25	3° 8 08'30	4.51438 AU
evening set	13839 Nov 03 01:26	4° ∡ ¹44'54			13844 Nov 07 15:15	30° Ŗ ♈	
				direct	13844 Dec 12 19:55	28° Y 11′50	
conjunction	13839 Nov 16 14:33	8° ≯ 00'53	0°13'56		13845 Jan 17 06:47	0° 8	
minimum elong	13839 Nov 16 14:32	8° ∡ ¹00'52	0°14'51	desc. node	13845 Mar 13 04:28	8° 8 15'39	
behind sun begin	13839 Nov 16 11:24	7° ∡ 758'59			13845 Apr 15 08:09	15° 8	

evening set max. Earth dist.	13845 Apr 16 10:13 13845 Apr 28 00:30	15° 8 13'51 17° 8 42'37	6.50063 AU	behind sun begin behind sun end max. Earth dist	13850 Oct 14 03:13 13850 Oct 14 19:25 13850 Oct 15 11:07	5°M43'47 5°M53'41 6°M03'19	5.89216 AU
conjunction	13845 Apr 29 09:12	18° 8 00'09	-0°02'08	morning rise	13850 Oct 27 22:59	9° M .06'46	
minimum elong	13845 Apr 29 09:11	18° 8 00'09	0°02'51	C	13850 Nov 21 17:23	15° M ₊	
behind sun begin	13845 Apr 29 01:12	17° 8 55'54		asc. node	13851 Jan 18 15:19	26°ML13'20	
behind sun end	13845 Apr 29 17:10	18° 8 04'25		retrograde	13851 Mar 08 15:20	29°M58'00	
morning rise	13845 May 12 06:38	20° 8 45'48		opposition	13851 May 06 20:08	24°M56'12	0°09'45
	13845 Jun 27 15:40	$\Pi^{\circ}0$		min. Earth dist.	13851 May 05 17:56	25°ML05'05	3.91415 AU
retrograde	13845 Sep 10 08:39	7° Ⅱ 28'06		direct	13851 Jul 03 21:07	20° ML $00'41$	
opposition	13845 Nov 10 11:26	2° Ⅱ 34'11	-0°16'15		13851 Sep 25 00:54	0°⊀	
min. Earth dist.	13845 Nov 11 17:47	2° Ⅱ 24'28	4.46536 AU	evening set	13851 Nov 08 08:24	10° ∡ ¹02'55	
	13845 Dec 01 14:06	30°R 8					
direct	13846 Jan 11 23:16	27° 8 33'23		conjunction	13851 Nov 21 21:36	13° ≯ 18′08	0°16'46
	13846 Feb 22 06:35	0°II		minimum elong	13851 Nov 21 21:35	13° ∡ 18′08	0°17'45
evening set	13846 May 16 16:51	14° Ⅱ 54'53	C 4000 T 4 X X	max. Earth dist.	13851 Nov 24 01:53	13° х 49'33	5.96272 AU
max. Earth dist.	13846 May 27 10:32	17° Ⅱ 15'38	6.40987 AU	morning rise	13851 Dec 05 12:28	16° ∡ ³33'55	
	1204634 20 12 20	170T 42120	0010120		13852 Feb 05 21:21	0°る	
conjunction	13846 May 29 13:39	17° Ⅱ 43'39		retrograde min. Earth dist.	13852 Apr 13 08:29	6°る41'07	4.0220.C.ATT
minimum elong	13846 May 29 13:38 13846 Jun 11 09:02	17° Ⅱ 43'39 20° Ⅱ 32'00	0°20'28		13852 Jun 10 07:04	1°る50'52 1°る37'39	4.03286 AU 0°38'52
morning rise	13846 Jul 27 17:39	20° ப 3200		opposition	13852 Jun 11 22:04 13852 Jun 24 04:40	1° ⊙ 3/39 30°R ∕ 7	0-38-52
retrograde	13846 Oct 12 00:42	0 5 7°551'35		direct	13852 Aug 09 11:50	30 KX. 26° ₹740'25	
opposition	13846 Dec 11 21:47	2°957'57	-0°30'18	direct	13852 Sep 24 13:28	20 x 4023	
min. Earth dist.	13846 Dec 13 12:41	2°945'27		evening set	13852 Dec 14 09:39	15° る 54'35	
mm. Earth dist.	13847 Jan 05 15:20	30°RⅡ	1.55777110	evening sec	13032 Bee 11 07.57	15 05 155	
direct	13847 Feb 11 18:57	27° I 57'45		conjunction	13852 Dec 27 22:40	19° ට 02'28	0°31'44
	13847 Mar 20 20:38	0°ಅ		minimum elong	13852 Dec 27 22:40	19° ට 02'27	0°32'46
evening set	13847 Jun 17 02:38	16°900'40		max. Earth dist.	13852 Dec 30 10:19	19° ට 36'59	6.11706 AU
max. Earth dist.	13847 Jun 27 14:38	18° © 23'16	6.25454 AU	morning rise	13853 Jan 10 12:15	22° る 10'15	
				C	13853 Feb 15 03:43	0° ≈	
conjunction	13847 Jun 29 23:05	18° © 55'21	-0°32'00	retrograde	13853 May 17 08:50	11° ≈ 04'05	
minimum elong	13847 Jun 29 23:05	18° © 55'21	0°33'02	min. Earth dist.	13853 Jul 14 22:30	6° ≈ 13'13	4.20610 AU
morning rise	13847 Jul 12 18:59	21°950'06		opposition	13853 Jul 16 10:09	6° ≈ 01'17	0°51'56
	13847 Aug 19 13:56	$0^{\circ}\Omega$		direct	13853 Sep 14 04:01	1° ≈ 02'15	
retrograde	13847 Nov 15 05:56	10° Ω 13′10			13853 Dec 29 07:40	15° ≈	
opposition	13848 Jan 14 13:56	5° Ω 18'47	-0°52'10	evening set	13854 Jan 18 04:40	19° ≈ 19′25	
min. Earth dist.	13848 Jan 16 03:56	5° Ω 06'26	4.16452 AU				
direct	13848 Mar 15 09:34	0° Ω 19'57		conjunction	13854 Jan 31 14:53	22° ≈ 18′23	
	13848 Jun 30 18:26	15° Ω		minimum elong	13854 Jan 31 14:53	22°≈18′23	0°35'51
evening set	13848 Jul 19 11:52	19° Ω 18'31		max. Earth dist.	13854 Feb 02 13:33	22°≈44'20	6.29408 AU
max. Earth dist.	13848 Jul 30 13:09	21° Ω 54'46	6.07700 AU	morning rise	13854 Feb 14 00:35	25°≈16'47	
	12040 4 01 10 52	220 021147	0025101		13854 Mar 07 21:53	0° ₩	
conjunction minimum elong	13848 Aug 01 10:53	$22^{\circ}\Omega 21'47$ $22^{\circ}\Omega 21'48$		retrograde min. Earth dist.	13854 Jun 17 20:04	13° 光 00′02 8° 光 07′20	4.37208 AU
morning rise	13848 Aug 01 10:53 13848 Aug 14 10:24	25° Ω 25'41	0 33 43	opposition	13854 Aug 16 11:37 13854 Aug 17 10:53	8 ★ 0720 7° ¥ 59'40	4.37208 AU 0°47'47
morning risc	13848 Sep 03 04:59	0° m)		direct	13854 Oct 17 09:27	2° H 59'31	0 4/4/
retrograde	13848 Dec 21 02:03	15° m) 04'48		evening set	13855 Feb 19 16:57	20°\(\frac{1}{30}\)'35	
opposition	13849 Feb 18 20:41	10° m 08'43	-0°47'58	evening sec	15050 1 60 15 10.07	20 /(3035	
min. Earth dist.	13849 Feb 19 18:27		3.99783 AU	conjunction	13855 Mar 04 23:06	23°) 22′09	0°27'49
direct	13849 Apr 19 07:03	5° mp 11'54		minimum elong	13855 Mar 04 23:07	23°) €22'09	0°28'03
evening set	13849 Aug 24 07:04	25° m 03'27		max. Earth dist.	13855 Mar 05 19:09	23°) 32′59	6.43698 AU
				morning rise	13855 Mar 18 03:59	26°) 12′55	
conjunction	13849 Sep 06 11:05	28° m 15'29	-0°25'30		13855 Apr 05 02:59	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	13849 Sep 06 11:06	28° m 15'29	0°25'38	retrograde	13855 Jul 17 21:00	13° Ƴ 07'33	
max. Earth dist.	13849 Sep 05 19:13	28° m 05'49	5.93715 AU	opposition	13855 Sep 16 20:14	8° Ƴ 10′07	0°30'43
	13849 Sep 13 14:42	0∘ ⊽		min. Earth dist.	13855 Sep 16 16:30	8° Ƴ 11′20	4.48293 AU
morning rise	13849 Sep 19 16:40	1° ≏ 28'33		direct	13855 Nov 17 19:29	3° Y 09'30	
retrograde	13850 Jan 28 21:04	22° ≏ 08'05		evening set	13856 Mar 21 13:22	20° Ƴ 14'52	
opposition	13850 Mar 29 04:21	17° 2 09'15					
min. Earth dist.	13850 Mar 29 01:44	17° ⊆ 10'08	3.90017 AU	conjunction	13856 Apr 03 15:23	23°Υ02'06	0°13'15
direct	13850 May 26 13:11	12° £ 13'56		minimum elong	13856 Apr 03 15:24	23°Υ02'06	0°12'56
	13850 Sep 20 14:42	0°M		behind sun begin	13856 Apr 03 10:32	22° Y 59'31	
evening set	13850 Oct 01 01:24	2°M31'42		behind sun end	13856 Apr 03 20:16	23° Y 04'41	6 50047 ATT
conjunction	13850 Oct 14 11:19	5° M .48'44	0°05'21	max. Earth dist.	13856 Apr 16 15:52	22° Y 57'02 25° Y 48'32	6.50847 AU
conjunction minimum elong	13850 Oct 14 11:19 13850 Oct 14 11:19	5°11L48'44 5°11L48'44		morning rise	13856 Apr 16 15:52 13856 May 06 19:46	0° 8	
mmmum ciong	13030 OCI 14 11.19	J 11640 44	U UT 33		13030 May 00 19.40	v O	

retrograde opposition min. Earth dist.	13856 Aug 15 10:26 13856 Oct 15 14:35 13856 Oct 16 05:53	12° 8 23'29 7° 8 28'22 7° 8 23'27	0°06'19 4.51202 AU	conjunction minimum elong behind sun begin	13862 Oct 19 13:58 13862 Oct 19 13:58 13862 Oct 19 05:37	10°M57'38 10°M57'38 10°M52'32	-0°02'26 0°01'49
direct	13856 Dec 17 01:56	2° 8 27'35		behind sun end	13862 Oct 19 22:20	11°M02'43	
desc. node	13857 Jan 17 04:57	3° 8 51'47		max. Earth dist.	13862 Oct 20 16:01	11°M13'34	5.89598 AU
ovening set	13857 Mar 29 23:31 13857 Apr 20 16:10	15° 8 19° 8 31'03		morning rise	13862 Nov 02 02:26	14°M.15'47 15°M.	
evening set max. Earth dist.	13857 Apr 20 10.10 13857 May 02 04:55	21° 8 59'15	6.49314 AU	asc. node	13862 Nov 05 03:23 13862 Dec 01 09:21	21°M10'13	
max. Earth tist.	13637 Way 02 04.33	21 03913	0.49314 AU	asc. nouc	13863 Jan 14 23:46	21 110 13 0° ₹	
conjunction	13857 May 03 14:54	22° 8 17'30	-0°04'44	retrograde	13863 Mar 13 15:01	5° × 7'04'10	
minimum elong	13857 May 03 14:54	22° 8 17'30		opposition	13863 May 11 21:11	0° × ⁷ 02'07	0°14'16
behind sun begin	13857 May 03 07:12	22° 8 13'23		min. Earth dist.	13863 May 10 16:35	0° ∡ 11'49	3.92354 AU
behind sun end	13857 May 03 22:36	22° 8 21'37			13863 May 12 03:26	30°RM	
morning rise	13857 May 16 11:47	25° 8 03'15		direct	13863 Jul 08 22:23	25°M06'24	
	13857 Jun 09 05:02	Π °0			13863 Sep 02 18:55	0° ∡ ¹	
retrograde	13857 Sep 14 15:57	11° Ⅲ 48'44		evening set	13863 Nov 13 09:13	15° ∡ °04'38	
opposition	13857 Nov 14 19:23	6° Ⅱ 54'55				_	
min. Earth dist.	13857 Nov 16 02:16		4.45352 AU	conjunction	13863 Nov 26 22:42	18° ∡ 19'18	0°19'21
direct	13858 Jan 16 05:46	1° Ⅱ 54'17		minimum elong	13863 Nov 26 22:41	18° √ 19'17	0°20'22
evening set	13858 May 21 01:04	19° Ⅱ 19'36	C 204C4 ATT	max. Earth dist.	13863 Nov 29 04:24	18° ∡ 751′28	5.97675 AU
max. Earth dist.	13858 May 31 17:18	21°Щ40'05	6.39464 AU	morning rise	13863 Dec 10 13:34	21°₹34'25 0°る	
conjunction	13858 Jun 02 21:30	22° Ⅱ 08'49	0°21'38	retrograde	13864 Jan 16 16:03 13864 Apr 18 03:07	11°る34'27	
minimum elong	13858 Jun 02 21:29	22° I 108'49		min. Earth dist.	13864 Jun 15 02:48	6°る43'54	4.04986 AU
morning rise	13858 Jun 15 16:50	24° I 57'43	0 22 40	opposition	13864 Jun 16 16:52	6° そ 31'01	0°41'41
morning rise	13858 Jul 09 05:59	0°95		direct	13864 Aug 14 10:09	1° る 33'33	0 11 11
retrograde	13858 Oct 16 16:06	12° © 23'26		evening set	13864 Dec 19 05:47	20° පි 42'06	
opposition	13858 Dec 16 11:26	7° © 29'44	-0°41'53	Č			
min. Earth dist.	13858 Dec 18 03:10	7° © 16'57	4.32029 AU	conjunction	13865 Jan 01 18:42	23° る 49'06	0°32'54
direct	13859 Feb 16 07:16	2° 5 29'41		minimum elong	13865 Jan 01 18:41	23° る 49'06	0°33'54
evening set	13859 Jun 21 14:47	20° © 37'53		max. Earth dist.	13865 Jan 04 06:15	24° る 23'25	6.13552 AU
max. Earth dist.	13859 Jul 02 03:33	23° © 01'30	6.23581 AU	morning rise	13865 Jan 15 07:58	26° る 55'56	
					13865 Jan 28 22:15	0° ≈	
conjunction	13859 Jul 04 11:23	23°S33'22			13865 May 01 00:54	15° ≈	
minimum elong	13859 Jul 04 11:23	23°533'21	0°34'06	retrograde	13865 May 21 18:49	15°≈41'40	
morning rise	13859 Jul 17 07:29	26°\$28'58		i. Fauth diat	13865 Jun 11 11:06	15°R≈ 10°2 250/50	4 22440 ATT
rotro aro do	13859 Aug 02 00:04 13859 Nov 20 01:56	0° Ω 14° Ω 59'57		min. Earth dist. opposition	13865 Jul 19 10:43 13865 Jul 20 22:02	10°≈50'59 10°≈39'11	4.22449 AU 0°52'20
retrograde opposition	13860 Jan 19 10:04	$14^{\circ} 0.05'22$	0°52'43	direct	13865 Jul 20 22:02 13865 Sep 18 18:12	5°≈40'01	0-32-20
min. Earth dist.	13860 Jan 20 21:37	9° Ω 53'48	4.14621 AU	direct	13865 Dec 11 09:40	15° ≈	
direct	13860 Mar 20 01:15	5° Ω 06'47	4.14021710	evening set	13866 Jan 22 18:58	23° ≈ 52'08	
	13860 Jun 12 22:55	15° Ω		<i>Q</i>			
evening set	13860 Jul 24 05:49	24° Ω 10'46		conjunction	13866 Feb 05 04:40	26° ≈ 50'13	0°34'40
max. Earth dist.	13860 Aug 04 10:48	26° Ω 49'47	6.06069 AU	minimum elong	13866 Feb 05 04:41	26° ≈ 50'14	0°35'20
				max. Earth dist.	13866 Feb 06 23:28	27° ≈ 13'57	6.31104 AU
conjunction	13860 Aug 06 05:10	27° Ω 14'56	-0°34'29	morning rise	13866 Feb 18 13:54	29° ≈ 47'43	
minimum elong	13860 Aug 06 05:11	27° Ω 14'56	0°35'09		13866 Feb 19 12:17	0° ∀	
	13860 Aug 17 19:43	0° m)		retrograde	13866 Jun 22 03:23	17°) €24'42	
morning rise	13860 Aug 19 05:15	0° m 19'47		opposition	13866 Aug 21 18:05	12°) €24'44	0°46'04
retrograde	13860 Dec 26 05:54	20° Mp 06'17	0045150	min. Earth dist.	13866 Aug 20 21:46	12°) € 31'25	4.38642 AU
opposition min. Earth dist.	13861 Feb 23 22:36	15° Mp 09'51	-0°45′50 3.98495 AU	direct	13866 Oct 21 20:58	7° ∺ 24'30 24° ∺ 52'10	
direct	13861 Feb 24 18:20 13861 Apr 24 06:44	13 mg 13'13	3.98493 AU	evening set	13867 Feb 24 02:06	24 X 32 10	
direct	13861 Apr 24 00:44 13861 Aug 28 16:44	0∘ ⊽		conjunction	13867 Mar 09 07:47	27°) 43′08	0°26'07
evening set	13861 Aug 29 06:21	0° ჲ 08'14		minimum elong	13867 Mar 09 07:48	27°) 43'09	0°26'17
e venning see	130011148 29 00.21	0 —001.		max. Earth dist.	13867 Mar 10 01:02	27°) 52'26	6.44772 AU
conjunction	13861 Sep 11 11:12	3° ჲ 21'01	-0°23'17		13867 Mar 19 21:57	0° Υ	
minimum elong	13861 Sep 11 11:13	3° ≏ 21'01		morning rise	13867 Mar 22 12:04	0° Ƴ 33'17	
max. Earth dist.	13861 Sep 11 00:11	3° ≏ 14'18	5.92910 AU	retrograde	13867 Jul 21 23:38	17° Y ′24'26	
morning rise	13861 Sep 24 17:29	6° ≏ 34'49		opposition	13867 Sep 21 00:42	12° Ƴ 27'19	0°27'36
retrograde	13862 Feb 03 01:56	27° ≏ 17'33		min. Earth dist.	13867 Sep 20 22:25	12° Y ′28′03	4.48959 AU
opposition	13862 Apr 03 08:20	22° ≏ 18'24		direct	13867 Nov 22 01:21	7° Y ′26′39	
min. Earth dist.	13862 Apr 03 03:00	22° Ω 20'11	3.89806 AU	evening set	13868 Mar 25 19:32	24° Y 30'53	
direct	13862 May 31 14:35	17° £ 23'10			12060 : 27 - 11	0.70004	0010:-0
	13862 Sep 03 12:53	0°M		conjunction	13868 Apr 07 21:05	27° Y 17'50	0°10'50
evening set	13862 Oct 06 03:37	7° M 40′31		minimum elong	13868 Apr 07 21:06	27° Y 17'51 27° Y 14'31	0°10'26
				behind sun begin	13868 Apr 07 14:50	21 11431	

habind aun and	13868 Apr 08 03:23	27° Ƴ 21'11		mamina risa	13873 Sep 29 23:00	11° ≏ 53'15	
behind sun end	1	27° Y 21'11'27° Y 11'35	(51054 ATT	morning rise	•	0°M	
max. Earth dist.	13868 Apr 07 09:20	0° 8 03'58	6.51054 AU		13873 Dec 29 08:57 13874 Feb 08 10:49	2°M40'43	
morning rise	13868 Apr 20 20:54 13868 Apr 20 13:24	0.8 0.903.28		retrograde	13874 Mar 21 19:34	2 1164043 30°R <u>Ω</u>	
	13868 Jul 17 10:37	15° 8		opposition	13874 Mai 21 19.34 13874 Apr 08 17:20	30 K== 27° Ω 41'06	0015122
ratra ara da	13868 Aug 19 14:39	16° 8 38'37		min. Earth dist.	13874 Apr 08 08:01		-0 13 33 3.89307 AU
retrograde	C	16 63 837		direct	=	27 ≗ 44 13 22° ≗ 45'52	3.89307 AU
annagition	13868 Sep 21 17:58 13868 Oct 19 19:14	13 KO 11° 8 43'44	0°02'35	direct	13874 Jun 05 21:40 13874 Aug 13 19:59	0°M	
opposition min. Earth dist.	13868 Oct 19 19:14 13868 Oct 20 12:50	11° 8 38'05	4.50920 AU	asc. node	13874 Oct 09 09:27	12°MJ33'20	
desc. node	13868 Nov 26 04:39	7° 8 39'12	4.30920 AU		13874 Oct 10 09.27	13°ML03'46	
	13868 Dec 21 08:13	6° 8 42'57		evening set	13874 Oct 11 11.34 13874 Oct 19 10:11	15 11603 40 15°M	
direct		15° 8			138/4 Oct 19 10.11	13 116	
	13869 Mar 11 23:04	23° 8 47'46		:	12074 0-+ 24 22-41	1.69 m 2.1102	0°00'54
evening set	13869 Apr 24 21:38	_	C 4051C ATT	conjunction	13874 Oct 24 22:41	16°M21'03	
max. Earth dist.	13869 May 06 05:46	26° 8 13'50	6.48516 AU	minimum elong	13874 Oct 24 22:42	16°M21'04	0°01'34
	120/03/4 07 10 47	260	0007116	behind sun begin	13874 Oct 24 14:20	16°M15'59	
conjunction	13869 May 07 19:47	26° 8 34'18		behind sun end	13874 Oct 25 07:04	16°M26'10	5 00005 444
minimum elong	13869 May 07 19:47	26° 8 34'18	0°08'04	max. Earth dist.	13874 Oct 26 06:13	16°M40'21	5.89887 AU
behind sun begin	13869 May 07 12:40	26° 8 30'30		morning rise	13874 Nov 07 11:39	19° M .39'18	
behind sun end	13869 May 08 02:54	26° 8 38'07			13874 Dec 22 15:26	0° ∡ 7	
morning rise	13869 May 20 16:29	29° 8 20'15		retrograde	13875 Mar 18 21:58	10° ∡ 124'40	
	13869 May 23 18:55	0°II		min. Earth dist.	13875 May 15 21:42	5° ∡ 32'25	3.93391 AU
retrograde	13869 Sep 19 00:40	16° Ⅱ 09'06		opposition	13875 May 17 03:36	5° ∡ 122'17	0°18'52
opposition	13869 Nov 19 03:13	11° Ⅱ 15'18		direct	13875 Jul 14 06:19	0° ∡ ¹26′22	
min. Earth dist.	13869 Nov 20 11:57		4.44050 AU	evening set	13875 Nov 18 15:37	20° ҂ 19'50	
direct	13870 Jan 20 13:11	6° Ⅱ 14'38					
evening set	13870 May 25 08:28	23° Ⅱ 44′06		conjunction	13875 Dec 02 05:19	23° ҂ ³33'47	0°21'54
max. Earth dist.	13870 Jun 05 00:08	26° Ⅱ 04'47	6.37720 AU	minimum elong	13875 Dec 02 05:18	23° ҂ ³33'46	0°22'56
				max. Earth dist.	13875 Dec 04 14:19	24° ∡ 107'45	5.99351 AU
conjunction	13870 Jun 07 04:54	26° ∏ 33'56	-0°23'40	morning rise	13875 Dec 15 20:15	26° ҂ ¹48′05	
minimum elong	13870 Jun 07 04:53	26° ∏ 33'56	0°24'44		13875 Dec 29 12:55	0°ප	
morning rise	13870 Jun 19 23:59	29° Ⅱ 23'27		retrograde	13876 Apr 23 00:19	16° る 39'09	
	13870 Jun 22 18:38	0 \circ \odot		min. Earth dist.	13876 Jun 20 00:29	11° る 49'03	4.07132 AU
retrograde	13870 Oct 21 05:41	16° © 56'13		opposition	13876 Jun 21 15:56	11° る 35'43	0°44'17
opposition	13870 Dec 21 01:02	12° © 02'26	-0°44'12	direct	13876 Aug 19 11:25	6° る 38'02	
min. Earth dist.	13870 Dec 22 16:32	11° 5 349'44	4.29937 AU	evening set	13876 Dec 24 05:48	25° る 38'57	
direct	13871 Feb 20 17:15	7° 5 02'32					
evening set	13871 Jun 26 03:39	25° © 17'21		conjunction	13877 Jan 06 18:17	28° る 44'43	0°33'51
max. Earth dist.	13871 Jul 06 16:50	27°5642'01	6.21281 AU	minimum elong	13877 Jan 06 18:17	28° る 44'42	0°34'50
				max. Earth dist.	13877 Jan 09 03:53	29° る 17'43	6.15980 AU
conjunction	13871 Jul 09 00:18	28°913'50	-0°33'58		13877 Jan 12 05:45	0° ≈	
minimum elong	13871 Jul 09 00:17	28°913'50	0°34'56	morning rise	13877 Jan 20 07:12	1° ≈ 50'16	
•	13871 Jul 16 17:24	$0^{\circ}\Omega$			13877 Mar 26 06:57	15° ≈	
morning rise	13871 Jul 21 20:48	1° Ω 10′32		retrograde	13877 May 26 08:13	20° ≈ 25'37	
	13871 Sep 28 10:29	15° Ω		min. Earth dist.	13877 Jul 24 03:22	15° ≈ 34'29	4.24937 AU
retrograde	13871 Nov 25 02:22	19° Ω 51′20		opposition	13877 Jul 25 12:46	15° ≈ 23'21	0°52'23
•	13872 Jan 23 21:08	15°R Ω			13877 Jul 28 10:47	15° R ≈	
opposition	13872 Jan 24 07:45	14° Ω 56'32	-0°52'53	direct	13877 Sep 23 14:19	10° ≈ 23'57	
min. Earth dist.	13872 Jan 25 18:36	14° Ω 45′09	4.12269 AU		13877 Nov 18 22:58	15° ≈	
direct	13872 Mar 24 19:57	9° Ω 58'06		evening set	13878 Jan 27 10:46	28° ≈ 28′28	
	13872 May 21 22:45	15° Ω		•		0°) €	
evening set	130/2 Widy 21 22.73				13878 Feb 03 09:14	$^{\circ}$ $^{\circ}$	
	13872 Jul 29 01:56				13878 Feb 03 09:14	0 X	
	13872 Jul 29 01:56	29° Ω 09'39		conjunction			0°34'01
max. Earth dist.	13872 Jul 29 01:56 13872 Aug 01 14:58	29° Ω 09'39 0° m	6.03884 AU	conjunction minimum elong	13878 Feb 09 20:03	1°) 25′22	0°34'01 0°34'37
max. Earth dist.	13872 Jul 29 01:56	29° Ω 09'39 0° m	6.03884 AU	minimum elong	13878 Feb 09 20:03 13878 Feb 09 20:04	1° ¥ 25'22 1° ¥ 25'23	0°34'37
	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06	29° \(\Omega 09'39 \\ 0° \(\mathref{m} \) 1° \(\mathref{m} \) 51'53		minimum elong max. Earth dist.	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38	1° 米 25'22 1° 米 25'23 1° 米 48'18	
conjunction	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03	29° \$\hat{\O9'39}\$ 0° \$\mathref{m}\$\$ 1'53\$ 2° \$\mathref{m}\$\$ 15'06	-0°33'39	minimum elong max. Earth dist. morning rise	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28	1° ¥ 25'22 1° ¥ 25'23	0°34'37
conjunction minimum elong	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04	29° \$\mathcal{O}\$09'39 0° m 1° m 51'53 2° m 15'06 2° m 15'07	-0°33'39	minimum elong max. Earth dist. morning rise retrograde	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09	1°\£25'22 1°\£25'23 1°\£48'18 4°\£21'35 21°\£49'53	0°34'37
conjunction minimum elong morning rise	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48	29° \$\mathcal{O}\$09'39 0° my 1° my 51'53 2° my 15'06 2° my 15'07 5° my 21'16	-0°33'39	minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29	1°\£25'22 1°\£25'23 1°\£48'18 4°\£21'35	0°34'37 6.33476 AU
conjunction minimum elong morning rise retrograde	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09	29° \$\alpha\$09'39 0° \$\mathbf{m}\$ 51'53 2° \$\mathbf{m}\$15'06 2° \$\mathbf{m}\$15'07 5° \$\mathbf{m}\$21'16 25° \$\mathbf{m}\$17'19	-0°33'39 0°34'15	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33	1°\text{\tint{\text{\tint{\text{\tint{\text{\te}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texit{\texi}\ti}\text{\text{\text{\ti}}}\tint{\tiint{\text{\text{\texi}	0°34'37 6.33476 AU 4.40727 AU
conjunction minimum elong morning rise retrograde opposition	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59	29° \$\alpha\$09'39 0° \$\mathbf{m}\$ 10 \text{ m} 51'53 2° \$\mathbf{m}\$ 15'06 2° \$\mathbf{m}\$ 15'07 5° \$\mathbf{m}\$ 21'16 25° \$\mathbf{m}\$ 17'19 20° \$\mathbf{m}\$ 20'35	-0°33'39 0°34'15 -0°43'14	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27	1°\£25'22 1°\£25'23 1°\£48'18 4°\£21'35 21°\£49'53 16°\£56'32 16°\£50'17 11°\£49'58	0°34'37 6.33476 AU 4.40727 AU
conjunction minimum elong morning rise retrograde opposition min. Earth dist.	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Mar 01 20:45	29° \$\alpha\$09'39 0° \$\text{m}\$ 1° \$\text{m}\$51'53 2° \$\text{m}\$15'06 2° \$\text{m}\$15'07 5° \$\text{m}\$21'16 25° \$\text{m}\$17'19 20° \$\text{m}\$20'35 20° \$\text{m}\$15'02	-0°33'39 0°34'15	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27 13879 Feb 28 10:56	1°\£25'22 1°\£25'23 1°\£48'18 4°\£21'35 21°\£49'53 16°\£56'32 16°\£50'17 11°\£49'58 29°\£12'06	0°34'37 6.33476 AU 4.40727 AU
conjunction minimum elong morning rise retrograde opposition	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Mar 01 20:45 13873 Apr 29 06:52	29° \$\alpha\$09'39 0° \$\text{m}\$ 10' \$\text{m}\$ 51'53 2° \$\text{m}\$ 15'06 2° \$\text{m}\$ 15'07 5° \$\text{m}\$ 21'16 25° \$\text{m}\$ 17'19 20° \$\text{m}\$ 20'35 20° \$\text{m}\$ 15'02 15° \$\text{m}\$ 24'12	-0°33'39 0°34'15 -0°43'14	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27	1°\£25'22 1°\£25'23 1°\£48'18 4°\£21'35 21°\£49'53 16°\£56'32 16°\£50'17 11°\£49'58	0°34'37 6.33476 AU 4.40727 AU
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Mar 01 20:45 13873 Apr 29 06:52 13873 Aug 11 15:25	29° \$\text{\$\alpha\$} 00° \text{\$\mathbb{m}\$} 10° \text{\$\mathbb{m}\$} 51'53\$ 2° \text{\$\mathbb{m}\$} 15'06 2° \text{\$\mathbb{m}\$} 15'07 5° \text{\$\mathbb{m}\$} 21'16 25° \text{\$\mathbb{m}\$} 17'19 20° \text{\$\mathbb{m}\$} 20'35 20° \text{\$\mathbb{m}\$} 15'02 15° \text{\$\mathbb{m}\$} 24'12 0° \text{\$\mathbb{\Omega}\$}	-0°33'39 0°34'15 -0°43'14	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27 13879 Feb 28 10:56 13879 Mar 04 04:31	1° \(\chi \)25'22 1° \(\chi \)25'23 1° \(\chi \)48'18 4° \(\chi \)21'35 21° \(\chi \)49'53 16° \(\chi \)50'17 11° \(\chi \)49'58 29° \(\chi \)12'06 0° \(\chi \)	0°34'37 6.33476 AU 4.40727 AU 0°44'04
conjunction minimum elong morning rise retrograde opposition min. Earth dist.	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Mar 01 20:45 13873 Apr 29 06:52	29° \$\alpha\$09'39 0° \$\text{m}\$ 10' \$\text{m}\$ 51'53 2° \$\text{m}\$ 15'06 2° \$\text{m}\$ 15'07 5° \$\text{m}\$ 21'16 25° \$\text{m}\$ 17'19 20° \$\text{m}\$ 20'35 20° \$\text{m}\$ 15'02 15° \$\text{m}\$ 24'12	-0°33'39 0°34'15 -0°43'14	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27 13879 Feb 28 10:56 13879 Mar 04 04:31	1°\£25'22 1°\£25'23 1°\£48'18 4°\£21'35 21°\£49'53 16°\£56'32 16°\£50'17 11°\£49'58 29°\£12'06 0°\Y 2°\Y02'08	0°34'37 6.33476 AU 4.40727 AU 0°44'04 0°24'18
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Mar 01 20:45 13873 Apr 29 06:52 13873 Aug 11 15:25 13873 Sep 03 10:06	29° A 09'39 0° m 1° m 51'53 2° m 15'06 2° m 15'07 5° m 21'16 25° m 17'19 20° m 20'35 20° m 15'02 15° m 24'12 0° Ω 5° Ω 24'41	-0°33'39 0°34'15 -0°43'14 3.96706 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27 13879 Feb 28 10:56 13879 Mar 04 04:31 13879 Mar 13 15:52 13879 Mar 13 15:53	1°\text{25'22} 1°\text{25'23} 1°\text{48'18} 4°\text{21'35} 21°\text{49'53} 16°\text{56'32} 16°\text{55'17} 11°\text{49'58} 29°\text{12'06} 0°\text{V} 2°\text{Y02'08} 2°\text{Y02'09}	0°34'37 6.33476 AU 4.40727 AU 0°44'04 0°24'18 0°24'23
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Apr 29 06:52 13873 Aug 11 15:25 13873 Sep 03 10:06	29° \$\alpha 00'39 0° \$\bar{m}\$ 1° \$\bar{m}\$ 51'53 2° \$\bar{m}\$ 15'06 2° \$\bar{m}\$ 15'07 5° \$\bar{m}\$ 21'16 25° \$\bar{m}\$ 17'19 20° \$\bar{m}\$ 20'35 20° \$\bar{m}\$ 15'02 15° \$\bar{m}\$ 24'12 0° \$\bar{m}\$ 5° \$\bar{m}\$ 24'41 8° \$\bar{m}\$ 38'24	-0°33'39 0°34'15 -0°43'14 3.96706 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27 13879 Feb 28 10:56 13879 Mar 04 04:31 13879 Mar 13 15:52 13879 Mar 13 15:53 13879 Mar 14 04:27	1°\text{25'22} 1°\text{25'23} 1°\text{48'18} 4°\text{21'35} 21°\text{49'53} 16°\text{56'32} 16°\text{55'17} 11°\text{49'58} 29°\text{12'06} 0°\text{0} 2°\text{Y02'08} 2°\text{Y02'09} 2°\text{Y08'54}	0°34'37 6.33476 AU 4.40727 AU 0°44'04 0°24'18
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	13872 Jul 29 01:56 13872 Aug 01 14:58 13872 Aug 09 11:06 13872 Aug 11 02:03 13872 Aug 11 02:04 13872 Aug 24 02:48 13872 Dec 31 13:09 13873 Mar 01 03:59 13873 Mar 01 20:45 13873 Apr 29 06:52 13873 Aug 11 15:25 13873 Sep 03 10:06	29° \(\O 09'39\) 0° \(\mathbf{m} \) 1° \(\mathbf{m} \) 51'53 2° \(\mathbf{m} \) 15'06 2° \(\mathbf{m} \) 15'07 5° \(\mathbf{m} \) 21'16 25° \(\mathbf{m} \) 17'19 20° \(\mathbf{m} \) 20'35 20° \(\mathbf{m} \) 15'02 15° \(\mathbf{m} \) 24'12 0° \(\mathbf{a} \) 5° \(\mathbf{a} \) 24'41 8° \(\mathbf{a} \) 38'24 8° \(\mathbf{a} \) 38'24	-0°33'39 0°34'15 -0°43'14 3.96706 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	13878 Feb 09 20:03 13878 Feb 09 20:04 13878 Feb 11 13:38 13878 Feb 23 04:28 13878 Jun 26 08:09 13878 Aug 25 06:29 13878 Aug 26 01:33 13878 Oct 26 07:27 13879 Feb 28 10:56 13879 Mar 04 04:31 13879 Mar 13 15:52 13879 Mar 13 15:53	1°\text{25'22} 1°\text{25'23} 1°\text{48'18} 4°\text{21'35} 21°\text{49'53} 16°\text{56'32} 16°\text{55'17} 11°\text{49'58} 29°\text{12'06} 0°\text{V} 2°\text{Y02'08} 2°\text{Y02'09}	0°34'37 6.33476 AU 4.40727 AU 0°44'04 0°24'18 0°24'23

opposition	13879 Sep 25 04:18	16° Ƴ 40'40	0°24'24		13885 Jan 24 14:21	30°R, Mp	
min. Earth dist.	13879 Sep 25 05:37	16° Ƴ 40'14	4.50068 AU	opposition	13885 Mar 06 11:41	25° m 37'02	-0°40'19
direct	13879 Nov 26 08:49	11° Ƴ 39'56		min. Earth dist.	13885 Mar 07 00:37	25° Mp 32'44	3.94612 AU
evening set	13880 Mar 29 23:39	28° Ƴ 41'41		direct	13885 May 04 09:48	20° Mp 40'56	
	13880 Apr 05 03:09	$_{0\circ}$ 8			13885 Jul 23 09:28	0∘ ত	
max. Earth dist.	13880 Apr 11 08:32	1° 8 19'39	6.51530 AU	evening set	13885 Sep 08 16:50	10° ≏ 48'12	
conjunction	13880 Apr 12 00:40	1° 8 28'14	0°08'26	conjunction	13885 Sep 21 23:27	14° ≏ 03'05	-0°18'06
minimum elong	13880 Apr 12 00:40	1° 8 28'14	0°07'58	minimum elong	13885 Sep 21 23:28	14° ≙ 03'06	
behind sun begin	13880 Apr 11 17:30	1° 8 24'26		max. Earth dist.	13885 Sep 21 23:00	14° ≏ 02'48	5.90318 AU
behind sun end	13880 Apr 12 07:50	1° 8 32'02		morning rise	13885 Oct 05 07:42	17° £ 19'03	0.50510110
morning rise	13880 Apr 24 23:57	4° 8 13'59		morning rise	13885 Nov 30 20:02	0°M	
morning risc	13880 Jun 19 19:14	15°B		retrograde	13886 Feb 14 01:18	8°ML11'37	
		_		•			0010142
retrograde	13880 Aug 23 16:32	20° 8 47'55		opposition	13886 Apr 14 05:23	3°M11'36	
desc. node	13880 Oct 09 03:40	17° 8 43'46	0001102	min. Earth dist.	13886 Apr 13 17:04	3°M15'45	3.88834 AU
opposition	13880 Oct 23 22:09	15° 8 53'11			13886 May 10 02:05	30° ₹ Ω	
min. Earth dist.	13880 Oct 24 17:44	15° 8 46'55	4.50733 AU	direct	13886 Jun 11 08:21	28° ≏ 16′26	
	13880 Oct 30 21:04	15° ₹8			13886 Jul 13 09:50	0° M	
direct	13880 Dec 25 11:04	10° 8 52'21		asc. node	13886 Aug 15 23:48	4° ጤ 54'40	
	13881 Feb 18 07:23	15° 8			13886 Oct 02 01:18	15° M ₊	
evening set	13881 Apr 29 00:45	27° 8 58'24		evening set	13886 Oct 16 22:41	18°M34'36	
	13881 May 08 11:03	Π° 0					
max. Earth dist.	13881 May 10 06:41	0°Ⅱ23'32	6.47665 AU	conjunction	13886 Oct 30 10:28	21°M52'00	0°04'10
	•			minimum elong	13886 Oct 30 10:27	21°M52'00	0°04'55
conjunction	13881 May 11 22:39	0° Ⅱ 45'07	-0°09'41	behind sun begin	13886 Oct 30 02:19	21°M47'03	
minimum elong	13881 May 11 22:38	0° II 45'06	0°10'33	behind sun end	13886 Oct 30 18:36	21°M56'57	
behind sun begin	13881 May 11 16:25	0° П 41'46	0 1033	max. Earth dist.	13886 Oct 31 23:35	22°M14'40	5.90352 AU
behind sun end	13881 May 12 04:52	0° Ц 48'27		morning rise	13886 Nov 13 00:05	25°M10'17	3.70332 110
morning rise	13881 May 24 18:50	3° Ⅱ 31'12		morning risc	13886 Dec 03 07:24	0° √	
-	•						
retrograde	13881 Sep 23 06:51	20° Ⅲ 23'56	002(120	retrograde	13887 Mar 24 05:02	15° 🗷 51'19	2 0 4 7 4 0 4 4 4
opposition	13881 Nov 23 09:14	15° Ⅱ 30'14		min. Earth dist.	13887 May 21 02:47	10° ₹ 59'58	3.94748 AU
min. Earth dist.	13881 Nov 24 20:04	15° ∐ 19'05	4.42563 AU	opposition	13887 May 22 12:12	10° ∡ ¹48'38	0°23'20
direct	13882 Jan 24 17:59	10° Ⅱ 29'37		direct	13887 Jul 19 14:59	5° ₹ 52'33	
evening set	13882 May 29 14:31	28° Ⅱ 04'06		evening set	13887 Nov 24 00:02	25° ∡ ³39'51	
	13882 Jun 07 08:13	0°					
max. Earth dist.	13882 Jun 09 02:53	0° 5 23'40	6.35679 AU	conjunction	13887 Dec 07 13:36	28° ∡ 52'47	0°24'16
				minimum elong	13887 Dec 07 13:36	28° ₹ 52'46	0°25'19
conjunction	13882 Jun 11 10:42	0°954'39	-0°25'32	max. Earth dist.	13887 Dec 09 23:35	29° х 27'10	6.01425 AU
minimum elong	13882 Jun 11 10:41	0°954'39	0°26'35		13887 Dec 12 06:59	0°రె	
morning rise	13882 Jun 24 05:59	3°545'01		morning rise	13887 Dec 21 04:32	2°る06'02	
retrograde	13882 Oct 25 21:02	21° 5 26'16		retrograde	13888 Apr 27 22:06	21° ප් 46'32	
opposition	13882 Dec 25 14:04	16° © 32'25	-0°46'15	min. Earth dist.	13888 Jun 25 00:28	16° පි 56'19	4.09662 AU
min. Earth dist.	13882 Dec 27 06:20	16°9519'25	4.27444 AU	opposition	13888 Jun 26 15:44	16° ろ 43'03	0°46'31
direct	13883 Feb 25 03:23	11°532'36	1.27111110	direct	13888 Aug 24 16:12	11°る45'02	0 1031
evening set	13883 Jun 30 15:55	29°955'40		direct	13888 Dec 26 12:37	0°≈	
evening set	13883 Jun 30 13:33						
E d E d		0°Ω	C 10525 ATT	evening set	13888 Dec 29 06:05	0° ≈ 37'02	
max. Earth dist.	13883 Jul 11 06:55	2° Ω 22'12	6.18535 AU		12000 1 11 10 10	20 - 41125	002424
	12002 X 1 12 12 2	20 0 2 2 2 2 2	002.427	conjunction	13889 Jan 11 18:18	3°≈41'25	0°34'34
conjunction	13883 Jul 13 13:06	2° Ω 53′28		minimum elong	13889 Jan 11 18:18	3° ≈ 41′25	0°35'30
minimum elong	13883 Jul 13 13:05	2° Ω 53'28	0°35'34	max. Earth dist.	13889 Jan 14 04:07	4°≈14'20	6.18725 AU
morning rise	13883 Jul 26 09:57	5° Ω 51'31		morning rise	13889 Jan 25 06:28	6° ≈ 45'27	
	13883 Sep 06 09:12	15° Ω			13889 Mar 04 14:53	15° ≈	
retrograde	13883 Nov 30 03:40	24° Ω 44'05		retrograde	13889 May 30 20:36	25° ≈ 09'27	
opposition	13884 Jan 29 06:19	19° Ω 49'09	-0°52'44	min. Earth dist.	13889 Jul 28 18:41	20° ≈ 18'14	4.27628 AU
min. Earth dist.	13884 Jan 30 15:44	19° Ω 38'13	4.09485 AU	opposition	13889 Jul 30 02:59	20°≈07'30	0°52'03
	13884 Mar 19 23:03	15° R €		direct	13889 Sep 28 08:30	15° ≈ 07'56	
direct	13884 Mar 29 12:51	14° Ω 51'02			13890 Jan 17 20:01	0° ₩	
	13884 Apr 08 02:35	15° Ω		evening set	13890 Feb 01 02:12	3°) €04'31	
	13884 Jul 16 00:23	0° m)		3B	20,020001 02.12	- /(0151	
evening set	13884 Aug 02 23:41	4° M) 12'00		conjunction	13890 Feb 14 10:42	6° ∺ 00'09	0°33'08
max. Earth dist.	13884 Aug 14 11:40	6° M) 56'55	6.01313 AU	minimum elong	13890 Feb 14 10:42	6° X 00'09	0°33'40
max. Darui uist.	13007 Aug 14 11.40	o ilyous	0.01313 AU	Č		6° ∺ 20'14	
	12004 4 16 00 22	70 m. 10155	0022127	max. Earth dist.	13890 Feb 15 23:17		6.35887 AU
conjunction	13884 Aug 16 00:23	7° m 18'55		morning rise	13890 Feb 27 18:33	8° ¥ 55'07	
minimum elong	13884 Aug 16 00:24	7° m) 18'56	0°33'06	retrograde	13890 Jun 30 14:31	26° ¥ 15′07	
morning rise	13884 Aug 29 02:12	10° Mp 26'43		opposition	13890 Aug 30 08:57	21° ¥ 15′53	0°41'47
	13884 Dec 18 06:44	0∘ ⊽		min. Earth dist.	13890 Aug 29 17:16	21° ∺ 21′01	4.42695 AU
retrograde	13885 Jan 05 22:21	0° ჲ 34'08		direct	13890 Oct 30 19:04	16° 米 15′25	

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	13891 Feb 15 21:53	0° Y		minimum elong	13896 Aug 21 03:17	12° m/32'52	0°31'39
evening set	13891 Mar 04 19:17	3° Y 32'36		morning rise	13896 Sep 03 05:51	15° Mp 42'04	0 2127
evening set	13071 Widi 04 17.17	3 13230		morning risc	13896 Nov 08 22:38	0° ⊡	
:	12001 Mar. 17, 22,45	C0W21154	0022110				
conjunction	13891 Mar 17 23:45	6° Y 21'54	0°22'19	retrograde	13897 Jan 11 12:30	5° £ 59'05	
minimum elong	13891 Mar 17 23:46	6° Y 21'54	0°22'18	opposition	13897 Mar 11 22:55	1° ≏ 01'40	
max. Earth dist.	13891 Mar 18 09:13	6° Y 26′58	6.47816 AU	min. Earth dist.	13897 Mar 12 08:52	0° ≏ 58'21	3.93046 AU
morning rise	13891 Mar 31 02:34	9° Ƴ 10′20			13897 Mar 19 17:13	30°R, Mp	
retrograde	13891 Jul 30 04:56	25° Y ′52′23		direct	13897 May 09 17:49	26°My05'51	
opposition	13891 Sep 29 08:12	20° Ƴ 55'56	0°20'59		13897 Jun 28 05:17	0∘ ত	
min. Earth dist.	13891 Sep 29 11:31	20° Ƴ 54'52	4.50820 AU	evening set	13897 Sep 14 02:19	16° ≏ 17'24	
direct	13891 Nov 30 13:40	15° Y 55′10		Č	•		
	13892 Mar 20 04:33	0°8		conjunction	13897 Sep 27 09:43	19° £ 33'03	-0°15'12
evening set	13892 Apr 03 04:49	2° 8 55'42		minimum elong	13897 Sep 27 09:43	19° ⊆ 33'03	
•	•		C 51500 ATT	•	•	19 ⊆ 33 03	0 1430
max. Earth dist.	13892 Apr 15 08:47	5° 8 31'06	6.51590 AU	behind sun begin	13897 Sep 27 06:33		
				behind sun end	13897 Sep 27 12:54	19° ≙ 34'59	
conjunction	13892 Apr 16 05:15	5° 8 42'01	0°05'55	max. Earth dist.	13897 Sep 27 14:49	19° ≙ 36'10	5.89602 AU
minimum elong	13892 Apr 16 05:14	5° 8 42'00	0°05'24	morning rise	13897 Oct 10 18:59	22° ≏ 49'48	
behind sun begin	13892 Apr 15 21:30	5° 8 37'54			13897 Nov 10 03:05	0° M ₊	
behind sun end	13892 Apr 16 12:58	5° 8 46'07		retrograde	13898 Feb 19 13:22	13°M44'05	
morning rise	13892 Apr 29 04:01	8° 8 27'32		opposition	13898 Apr 19 17:59	8°M43'37	-0°05'44
	13892 May 31 05:08	15° 8		min. Earth dist.	13898 Apr 19 00:50	8°M49'25	3.89097 AU
desc. node	13892 Aug 21 07:04	24° 8 58'00		direct	13898 Jun 16 18:35	3°ML48'28	
retrograde	13892 Aug 27 22:16	25° 8 02'04		asc. node	13898 Jun 23 09:36	3°M53'02	
opposition	13892 Oct 28 02:49	20° 8 07'34	-0°04'47	use. Houe	13898 Sep 13 06:53	15°M	
min. Earth dist.	13892 Oct 28 02:49 13892 Oct 29 02:00	20°800'09	4.50100 AU	evening set	13898 Oct 22 09:57	24°ML03'52	
		_	4.30100 AU	evening set	13696 Oct 22 09.37	24 11603 32	
direct	13892 Dec 29 16:57	15° 8 06'40				m	
	13893 Apr 22 15:29	$0^{\circ}\Pi$		conjunction	13898 Nov 04 22:03	27°M20'52	0°07'22
evening set	13893 May 03 06:08	2° Ⅱ 15'19		minimum elong	13898 Nov 04 22:03	27°M20'52	0°08'12
max. Earth dist.	13893 May 14 07:30	4° Ⅱ 38'29	6.46366 AU	behind sun begin	13898 Nov 04 14:39	27°M16'23	
				behind sun end	13898 Nov 05 05:26	27°M25'21	
conjunction	13893 May 16 03:40	5° Ⅱ 02'23	-0°12'09	max. Earth dist.	13898 Nov 06 14:57	27° M 45'46	5.91553 AU
minimum elong	13893 May 16 03:39	5° Ⅱ 02'22	0°13'04		13898 Nov 15 20:03	0° ∡ ¹	
behind sun begin	13893 May 15 22:51	4° Ⅱ 59'47		morning rise	13898 Nov 18 12:06	0° ∡ ³38'42	
behind sun end	13893 May 16 08:27	5° Ⅱ 04'58		retrograde	13899 Mar 29 09:35	21° ҳ¹ 12'18	
morning rise	13893 May 28 23:43	7° Ⅱ 48'54		min. Earth dist.	13899 May 26 07:33	16° × 121'12	3.96726 AU
-	13893 Sep 27 17:03	24° I I46'56		opposition	13899 May 27 18:33	16° × 21 12	
retrograde			0020157	* *	13899 Jul 25 00:38		0 2/31
opposition	13893 Nov 27 18:31	19° Ⅱ 53'12		direct		11° ∡ 12'57	
min. Earth dist.	13893 Nov 29 06:30		4.40672 AU		13899 Nov 25 12:51	0°る	
direct	13894 Jan 29 00:39	14° Ⅱ 52'34		evening set	13899 Nov 29 05:45	0° る 52'02	
	13894 May 22 07:38	0 \circ					
evening set	13894 Jun 02 23:48	2° © 33'15		conjunction	13899 Dec 12 19:24	4° ප 03'45	0°26'24
max. Earth dist.	13894 Jun 13 12:28	4° © 53'40	6.33324 AU	minimum elong	13899 Dec 12 19:24	4° る 03'44	0°27'27
				max. Earth dist.	13899 Dec 15 08:00	4° る 39'28	6.03975 AU
conjunction	13894 Jun 15 20:06	5° 5 24'43	-0°27'20	morning rise	13899 Dec 26 09:54	7° る 15'37	
minimum elong	13894 Jun 15 20:06	5° 5 24'43	0°28'23	retrograde	13900 May 03 17:09	26° පි 44'08	
morning rise	13894 Jun 28 15:19	8°516'01		min. Earth dist.	13900 Jun 30 21:05	21° る 53'54	4.12494 AU
retrograde	13894 Oct 30 16:30	26°906'45		opposition	13900 Jul 02 12:01	21° ප් 40'47	0°48'19
opposition	13894 Dec 30 07:21	21° © 12'49	-0°48'07	direct	13900 Aug 30 16:29	16° පි 42'33	
min. Earth dist.	13894 Dec 31 23:59	20°959'42	4.24775 AU		13900 Aug 30 10:29 13900 Dec 10 12:20	0°≈	
		16°913'10	4.24773710	evening set	13901 Jan 04 02:43	5°≈25'04	
direct	13895 Mar 01 16:37 13895 Jun 14 06:24	0°Ω		evening set	13701 Jan 04 02.43	J ~ ∠3 04	
					12001 7 17 11 10	00 05150	002.510.0
evening set	13895 Jul 05 08:51	4° Ω 44'57		conjunction	13901 Jan 17 14:18	8° ≈ 27'58	0°35'00
max. Earth dist.	13895 Jul 16 00:06	7° & 212'37	6.15759 AU	minimum elong	13901 Jan 17 14:18	8° ≈ 27'58	0°35'53
				max. Earth dist.	13901 Jan 19 20:58	8° ≈ 58'54	6.21568 AU
conjunction	13895 Jul 18 06:14	7° Ω 44'03	-0°35'03	morning rise	13901 Jan 31 02:02	11° ≈ 30'32	
minimum elong	13895 Jul 18 06:14	7° Ω 44'03	0°35'58		13901 Feb 15 21:00	15° ≈	
morning rise	13895 Jul 31 03:48	10° Ω 43'32		retrograde	13901 Jun 05 04:41	29° ≈ 43'32	
	13895 Aug 18 22:53	15° Ω		min. Earth dist.	13901 Aug 03 07:37	24° ≈ 51'56	4.30248 AU
retrograde	13895 Dec 05 08:33	29° Ω 47'54		opposition	13901 Aug 04 13:45	24° ≈ 41'56	0°51'23
opposition	13896 Feb 03 09:20	24° Ω 52'41	-0°52'10	direct	13901 Oct 03 23:29	19° ≈ 42'11	-
min. Earth dist.	13896 Feb 04 16:07	24°Ω42'35			13902 Jan 01 11:01	0°) €	
direct	13896 Apr 03 10:43	19° Ω 54'50	1.00030 710	evening set	13902 Feb 06 14:03	7° ∺ 31'32	
uncet	•			evening set	13704 100 00 14.03	/ N 3132	
	13896 Jun 27 10:39	0°M)			12002 F 1 10 22 05	1001/2002	0022105
evening set	13896 Aug 08 01:37	9° Mp 24'30	5.00072 ***	conjunction	13902 Feb 19 22:07	10° ¥ 26′03	0°32'05
max. Earth dist.	13896 Aug 19 20:25	12°11) 14'16	5.99072 AU	minimum elong	13902 Feb 19 22:08	10° ¥ 26′03	0°32'32
				max. Earth dist.	13902 Feb 21 07:41	10°) 44′24	6.38100 AU
conjunction	13896 Aug 21 03:16	12° m 32'52	-0°31′14	morning rise	13902 Mar 05 05:05	13° ¥ 19′50	

	12002 I 17 01.46	0° Υ			12007 A 05 22-50	150 020154	
	13902 Jun 17 01:46			morning rise	13907 Aug 05 22:50	15° Ω 39'54	
retrograde	13902 Jul 05 17:37	0° Υ 32'35		_	13907 Oct 14 21:48	0° m	
	13902 Jul 24 06:47	30° ₹		retrograde	13907 Dec 11 15:32	4° m 55'09	
opposition	13902 Sep 04 13:27	25° ∺ 33'52	0°39'22	opposition	13908 Feb 09 13:33	29° Ω 59'42	-0°51'10
min. Earth dist.	13902 Sep 04 00:23	25°) 38′08	4.44360 AU		13908 Feb 09 12:38	30° R Ω	
direct	13902 Nov 05 02:32	20° ∺ 33'25		min. Earth dist.	13908 Feb 10 18:29	29° Ω 50′12	4.04570 AU
	13903 Jan 30 14:45	0 ° Υ		direct	13908 Apr 09 10:50	25° Ω 02'12	
evening set	13903 Mar 10 01:31	7° Y '46'56			13908 Jun 05 14:17	o∘ m p	
Ü				evening set	13908 Aug 14 03:57	14° m) 38'47	
conjunction	13903 Mar 23 05:15	10° Ƴ 35'37	0°20'15	max. Earth dist.	13908 Aug 26 02:59	17° m 31'49	5.97312 AU
minimum elong	13903 Mar 23 05:16	10° Υ 35'37	0°20'10	max. Earth dist.	15,000 rag 20 02.55	17 1931 19	3.57512110
max. Earth dist.	13903 Mar 23 08:32	10° Υ 37'22	6.48821 AU	conjunction	13908 Aug 27 06:14	17° m)48'18	0°20'27
		10 γ 37 22 13° Υ 23'29	0.40021 AU	•	-		
morning rise	13903 Apr 05 07:39			minimum elong	13908 Aug 27 06:15	17° mp 48'18	0°29'56
	13903 Jul 29 15:19	0°8		morning rise	13908 Sep 09 09:48	20° m 58'44	
retrograde	13903 Aug 04 08:34	0° 8 03'03			13908 Oct 18 16:28	0∘ ত	
	13903 Aug 10 00:51	30° ŖƳ		retrograde	13909 Jan 17 22:51	11° ≏ 23'02	
opposition	13903 Oct 04 10:50	25° Y ′07′00	0°17'34	opposition	13909 Mar 18 08:53	6° ≏ 25'11	-0°33'13
min. Earth dist.	13903 Oct 04 18:04	25° Y ′04'40	4.51130 AU	min. Earth dist.	13909 Mar 18 14:06	6° ≏ 23'27	3.91999 AU
direct	13903 Dec 05 18:31	20° Y ′06′12		direct	13909 May 15 23:46	1° ≏ 29'31	
	13904 Mar 04 05:57	0°8		evening set	13909 Sep 20 10:24	21° ≏ 43'22	
evening set	13904 Apr 08 08:37	7° 8 07'02					
max. Earth dist.	13904 Apr 20 08:57	9° 8 40'38	6.51189 AU	conjunction	13909 Oct 03 18:29	24° ≏ 59'28	-0°12'11
		, 0		minimum elong	13909 Oct 03 18:30	24° £ 59'28	0°11'51
conjunction	13904 Apr 21 08:46	9° 8 53'21	0°03'24	behind sun begin	13909 Oct 03 12:42	24° Ω 55'56	0 1131
minimum elong	13904 Apr 21 08:45	9° 8 53'21	0°02'49	behind sun end	13909 Oct 03 12:42 13909 Oct 04 00:17	25° ⊆ 03'01	
•	-	9° 8 49'06	0 0249				5 00264 ATT
behind sun begin	13904 Apr 21 00:45			max. Earth dist.	13909 Oct 04 04:53	25° Ω 05'50	5.89364 AU
behind sun end	13904 Apr 21 16:45	9° 8 57'36		morning rise	13909 Oct 17 04:32	28° ≏ 16'40	
morning rise	13904 May 04 07:02	12° 8 38'54			13909 Oct 24 06:58	0°M	
	13904 May 15 11:16	15° 8			13910 Jan 05 00:26	15°M	
desc. node	13904 Jul 04 07:03	24° 8 15'31		retrograde	13910 Feb 25 22:19	19° ™ 10'40	
retrograde	13904 Sep 02 02:31	29° 8 15'42			13910 Apr 19 22:18	15°RM₊	
opposition	13904 Nov 02 07:25	24° 8 21'25	-0°08'28	min. Earth dist.	13910 Apr 25 07:51	14° ™ 16′24	3.89686 AU
min. Earth dist.	13904 Nov 03 08:02	24° 8 13'32	4.49032 AU	opposition	13910 Apr 26 03:36	14°ML09'43	-0°00'46
direct	13905 Jan 03 19:34	19° 8 20'36		asc. node	13910 May 04 16:01	13° M 01'15	
	13905 Apr 06 19:56	$\Pi^{\circ}0$		direct	13910 Jun 23 04:42	9° ™ 14'26	
evening set	13905 May 08 11:43	6° Ⅲ 33′18			13910 Aug 23 00:10	15° ™	
max. Earth dist.	13905 May 19 11:02	8° П 55'53	6.44705 AU	evening set	13910 Oct 28 18:02	29°M26'04	
	,			Ü	13910 Oct 31 02:14	0° ∡ ¹	
conjunction	13905 May 21 09:00	9°Ⅱ20'53	-0°14'32		13310 000 31 02.11	•	
minimum elong	13905 May 21 08:59	9° Ⅱ 20′52		conjunction	13910 Nov 11 06:41	2° х 42′38	0°10'27
behind sun begin	13905 May 21 06:45	9° Ⅱ 19'40	0 13 27	minimum elong	13910 Nov 11 06:40	2° х 42′38	0°11'21
behind sun end	13905 May 21 11:12	9° ∏ 22'05		_		2° × 42 38 2° × 38'58	0 1121
	•	9 П 22 03 12° П 07'57		behind sun begin	13910 Nov 11 00:36	2° x '36'36'36'2° x '46'17	
morning rise	13905 Jun 03 04:48			behind sun end	13910 Nov 11 12:45		5 02000 444
retrograde	13905 Oct 03 05:46	29° Ⅱ 12'36		max. Earth dist.	13910 Nov 13 04:40	3° ∡ 10'31	5.92900 AU
opposition	13905 Dec 03 04:54	24° Ⅱ 19'00		morning rise	13910 Nov 24 20:53	5° ₹ 59'52	
min. Earth dist.	13905 Dec 04 18:53	24° Ⅱ 06′50	4.38518 AU	retrograde	13911 Apr 04 12:19	26° ∡ ¹25'45	
direct	13906 Feb 03 09:07	19° Ⅱ 18'31		min. Earth dist.	13911 Jun 01 09:31	21° ∡ ³34'50	3.98668 AU
	13906 May 06 02:16	0 \circ \odot		opposition	13911 Jun 02 21:37	21° ∡ ¹22'36	0°31'24
evening set	13906 Jun 08 10:28	7° 5 06'16		direct	13911 Jul 31 06:08	16° ∡ °25'58	
max. Earth dist.	13906 Jun 18 21:19	9° 5 26'30	6.30835 AU		13911 Nov 09 05:27	0° ප	
				evening set	13911 Dec 05 08:38	5° る 57'24	
conjunction	13906 Jun 21 06:44	9° 9 58'44	-0°28'57	Ü			
minimum elong	13906 Jun 21 06:43	9° 9 58'44		conjunction	13911 Dec 18 22:00	9° る 07'56	0°28'17
morning rise	13906 Jul 04 02:16	12°951'07	0 20 00	minimum elong	13911 Dec 18 21:59	9° る 07'55	0°29'22
morning risc	13906 Oct 12 23:22	0°Ω		max. Earth dist.	13911 Dec 21 10:02	9°る43'07	6.06293 AU
retrograde	13906 Oct 12 23:22 13906 Nov 05 13:10	0° Ω 51'53		morning rise	13911 Dec 21 10:02 13912 Jan 01 12:24	12° る 18'36	0.00293 AU
renograde				morning rise			
	13906 Nov 29 02:53	30°R≌	0040440	, ,	13912 Apr 06 13:17	0°≈ 10×22(127	
opposition	13907 Jan 05 02:15	25°\$57'48		retrograde	13912 May 08 07:47	1°≈36'27	
min. Earth dist.	13907 Jan 06 17:17	25° © 45'10	4.22131 AU		13912 Jun 08 23:07	30°Ŗる	
direct	13907 Mar 07 06:32	20° © 58'24		min. Earth dist.	13912 Jul 05 15:11		4.14959 AU
	13907 May 27 16:17	0 ° Ω		opposition	13912 Jul 07 05:50	26° る 33'12	0°49'47
evening set	13907 Jul 11 02:53	9° Ω 38'41		direct	13912 Sep 04 13:39	21° る 34'39	
max. Earth dist.	13907 Jul 21 22:32	12° Ω 09'42	6.13191 AU		13912 Nov 21 14:19	0° ≈	
				_		1000 000120	
				evening set	13913 Jan 08 21:43	10° ≈ 09'20	
conjunction	13907 Jul 24 00:51	12° Ω 39'05	-0°35'15	evening set	13913 Jan 08 21:43	10 ≈ 09 20	
conjunction minimum elong	13907 Jul 24 00:51 13907 Jul 24 00:51	12° Ω 39'05 12° Ω 39'05		conjunction	13913 Jan 08 21:43 13913 Jan 22 08:58	10°≈09′20 13°≈11′01	0°35'14
-							0°35'14 0°36'04

max. Earth dist.	13913 Jan 24 13:17	13° ≈ 40′29	6.23982 AU	max. Earth dist.	13918 Jun 23 10:05	14° 5 01'46	6.28947 AU
marning rica	13913 Jan 30 10:46 13913 Feb 04 19:58	15° ≈		amiumatian	12019 Jun 25 17:50	149@22112	0920127
morning rise	13913 Feb 04 19:58 13913 Apr 16 16:41	16°≈12'16 0°) €		conjunction minimum elong	13918 Jun 25 17:50 13918 Jun 25 17:50	14° © 33'13 14° © 33'13	0°31'30
ratra ara da	13913 Apr 10 10.41 13913 Jun 09 13:51	4°) 15'54		morning rise	13918 Jul 08 13:22	17° © 26'23	0 31 30
retrograde	13913 Jun 09 13.31 13913 Aug 03 06:24	4 X 13 34 30°R≈		morning rise	13918 Sep 08 20:09	17 302023 0°Ω	
onnosition	· ·	30 k≈ 29°≈14'41	0°50'28	ratragrada	13918 Sep 08 20.09 13918 Nov 10 09:56	5° Ω 35'03	
opposition min. Earth dist.	13913 Aug 08 23:49 13913 Aug 07 20:16	29 ≈1441 29°≈23'48	4.32410 AU	retrograde opposition	13918 Nov 10 09.36 13919 Jan 09 21:00	0° Ω 40'52	0°50'56
direct	13913 Aug 07 20:10 13913 Oct 08 14:06	29 ≈23 48 24°≈14'48	4.32410 AU	min. Earth dist.	13919 Jan 11 11:51	0° Ω 28'16	4.20204 AU
direct	13913 Dec 11 22:15	0°)		iiiii. Eartii dist.	13919 Jan 15 03:23	30°RS	4.20204 AU
evening set	13913 Dec 11 22:13	0 X 11° ¥ 58'22		direct	13919 Jan 13 03:23 13919 Mar 11 22:39	25°\$41'45	
evening set	13914 Feb 11 01.34	11 / 36 22		direct	13919 May 04 22:22	23 3 41 43	
conjunction	13914 Feb 24 09:19	14° ¥ 51'58	0°30'50	evening set	13919 May 04 22:22 13919 Jul 15 19:37	14° Ω 27'48	
minimum elong	13914 Feb 24 09:19 13914 Feb 24 09:20	14° X 51'58	0°31'13	evening set	13919 Jul 18 02:57	14 δ (2/48	
max. Earth dist.	13914 Feb 24 09.20 13914 Feb 25 14:10	14 ★ 3138 15° ¥ 07'40	6.39847 AU	max. Earth dist.	13919 Jul 26 16:57	13 δ <i>t</i> 17° Ω 00'28	6.11389 AU
	13914 Feb 23 14.10 13914 Mar 09 15:48	17°) 44'50	0.39847 AU	max. Earm dist.	13919 Jul 20 10.37	1/860028	0.11389 AU
morning rise		17 Κ44 30 0° Υ		aaniumatian	13919 Jul 28 17:50	17° Ω 29'07	0025115
	13914 May 12 10:10	4° Υ 51'50		conjunction	13919 Jul 28 17:50		
retrograde	13914 Jul 09 21:49 13914 Sep 07 22:53	4° 1 51 50 30°R ∺		minimum elong		17° Ω 29'08 20° Ω 30'58	0°36'02
	1	*	0027142	morning rise	13919 Aug 10 16:23		
opposition	13914 Sep 08 18:55	29°) 53'28	0°36'43	. 1	13919 Sep 22 14:06	0° Mp	
min. Earth dist.	13914 Sep 08 08:33	29°) 56'51	4.45606 AU	retrograde	13919 Dec 16 16:13	9° Mp 54'08	0040151
direct	13914 Nov 09 10:48	24°) € 52'56		opposition	13920 Feb 14 14:24	4° M 58'24	
	13915 Jan 09 18:16	0°Υ 12° 20 °2152		min. Earth dist.	13920 Feb 15 15:50	4° m 50'03	4.03064 AU
evening set	13915 Mar 14 08:35	12° Y 03′52		direct	13920 Apr 14 07:18	0° Mp 01'11	
				evening set	13920 Aug 19 02:21	19° m 42'05	
conjunction	13915 Mar 27 11:57	14° Y 52'07	0°18'03	max. Earth dist.	13920 Aug 31 06:39	22° m 38'41	5.96250 AU
minimum elong	13915 Mar 27 11:57	14° Υ 52'07	0°17'54				
max. Earth dist.	13915 Mar 27 12:36	14° Y ′52′28	6.49498 AU	conjunction	13920 Sep 01 05:15	22° m 52'22	
morning rise	13915 Apr 09 13:34	17° Ƴ 39′29		minimum elong	13920 Sep 01 05:16	22° m 52'23	0°28'06
	13915 Jun 14 12:15	0°8		morning rise	13920 Sep 14 09:31	26° m 03'39	
retrograde	13915 Aug 08 11:46	4° 8 17'26			13920 Sep 30 23:17	0∘ ʊ	
	13915 Oct 03 15:47	30° ₹ Υ		retrograde	13921 Jan 23 04:27	16° △ 32'42	
opposition	13915 Oct 08 15:12	29° Y ′21'43	0°13'58	opposition	13921 Mar 23 13:19	11° ≏ 34'27	
min. Earth dist.	13915 Oct 09 00:28	29° Y 18'45	4.51227 AU	min. Earth dist.	13921 Mar 23 16:14		3.91491 AU
direct	13915 Dec 09 23:44	24° Y ′21′01		direct	13921 May 21 02:52	6° Ω 38'55	
	13916 Feb 13 03:10	0° 8		evening set	13921 Sep 25 12:12	26° ≏ 53'17	
evening set	13916 Apr 12 14:31	11° 8 22'32					
max. Earth dist.	13916 Apr 24 10:08	13° 8 53'54	6.50713 AU	conjunction	13921 Oct 08 21:04	0° ™ 09'42	
				minimum elong	13921 Oct 08 21:05	0°M₀09'42	0°08'50
conjunction	13916 Apr 25 14:02	14° 8 08'50	0°00'46	behind sun begin	13921 Oct 08 13:56	0°M05′20	
minimum elong	13916 Apr 25 14:02	14° 8 08'50	0°00'06	behind sun end	13921 Oct 09 04:15	0° ™ 14'05	
behind sun begin	13916 Apr 25 06:16	14° 8 04'42			13921 Oct 08 05:15	0° ™	
behind sun end	13916 Apr 25 21:47	14° 8 12'58		max. Earth dist.	13921 Oct 09 12:47	0° M .19′19	5.89469 AU
	13916 Apr 29 13:36	15° 8		morning rise	13921 Oct 22 07:43	3° ™ 27'09	
morning rise	13916 May 08 12:00	16° 8 54'26			13921 Dec 12 03:02	15° ™	
desc. node	13916 May 12 13:34	17° 8 46'10		retrograde	13922 Mar 03 01:35	24° ™ 19'45	
	13916 Jul 18 15:46	0°II		asc. node	13922 Mar 19 05:05	23°M53'25	
retrograde	13916 Sep 06 10:50	3° Ⅲ 33'33		min. Earth dist.	13922 Apr 30 08:21	19°M25'56	3.90408 AU
	13916 Oct 26 22:50	30° ₹8		opposition	13922 May 01 06:12	19°M18'33	0°03'54
opposition	13916 Nov 06 14:13	28° 8 39'29			13922 Jun 09 09:14	15°RM	
min. Earth dist.	13916 Nov 07 17:29	28° 8 30'46	4.48043 AU	direct	13922 Jun 28 06:51	14°M23'13	
direct	13917 Jan 08 02:46	23° 8 38'46			13922 Jul 17 05:26	15° ™	
	13917 Mar 18 06:30	0°Щ			13922 Oct 14 17:24	0° ∡ 7	
evening set	13917 May 12 18:57	10° Ⅱ 54'57		evening set	13922 Nov 02 19:39	4° ∡ ³31'17	
max. Earth dist.	13917 May 23 16:23	13° Ⅱ 16'59	6.43293 AU				
	1201777 27 1555	120 7 4	00177	conjunction	13922 Nov 16 08:28	7° ₹ 47'22	0°13'18
conjunction	13917 May 25 16:02	13° Ⅱ 42'58		minimum elong	13922 Nov 16 08:27	7° × ⁷ 47'22	0°14'13
minimum elong	13917 May 25 16:02	13° Ⅱ 42'58	0°17'53	behind sun begin	13922 Nov 16 04:32	7°× 7 45'01	
morning rise	13917 Jun 07 11:37	16° Ⅱ 30'31		behind sun end	13922 Nov 16 12:22	7°× 7 49'43	5 0 4 1 2 = ·
	13917 Aug 18 08:04	0.20 0.20		max. Earth dist.	13922 Nov 18 07:26	8° ₹ 15'45	5.94137 AU
retrograde	13917 Oct 07 17:45	3°540'51		morning rise	13922 Nov 29 23:06	11° ₹ 04'09	
	13917 Nov 28 03:26	30°RⅡ	000 (100		13923 Mar 11 01:31	0°る	
opposition	13917 Dec 07 16:47	28° Ⅱ 47'15		retrograde	13923 Apr 09 06:53	1°る23'21	
min. Earth dist.	13917 Dec 09 06:06	28° Ⅲ 35'16	4.36800 AU		13923 May 08 09:29	30°Ŗ ⋌	
direct	13918 Feb 07 17:35	23° Ⅱ 46'58		min. Earth dist.	13923 Jun 06 04:45	26° ₹ 32'45	4.00288 AU
	13918 Apr 16 02:33	0°®		opposition	13923 Jun 07 17:58	26° ₹ 20'07	0°34'51
evening set	13918 Jun 12 21:35	11° © 40'01		direct	13923 Aug 05 03:51	21° ₹ ′23'16	

	13923 Oct 21 14:05	8°0		retrograde	13928 Sep 10 16:13	7° Ⅱ 51'05	
evening set	13923 Dec 10 05:53	10° පි 49'01		opposition	13928 Nov 10 20:33	2° ∏ 57′02	
		_		min. Earth dist.	13928 Nov 12 00:43		4.47027 AU
conjunction	13923 Dec 23 19:16	13°₹58'42			13928 Dec 05 13:39	30°₹ 8	
minimum elong	13923 Dec 23 19:15	13°る58'41	0°30'59	direct	13929 Jan 12 08:12	27° 8 56'20	
max. Earth dist.	13923 Dec 26 06:42	14°る33'24	6.08154 AU		13929 Feb 19 04:25	0°П	
morning rise	13924 Jan 06 09:21	17° る 08'23		evening set	13929 May 17 01:25	15° Ⅱ 15'44	
	13924 Mar 07 23:24	0° ≈		max. Earth dist.	13929 May 27 20:19	17° Ⅱ 36'55	6.41819 AU
retrograde	13924 May 12 21:06	6°≈17'54	116060 177		12020 11 20 22 05	100 00 000	0010100
min. Earth dist.	13924 Jul 10 06:30	1°≈27'15	4.16869 AU	conjunction	13929 May 29 22:05	18° ∏ 04'10	
opposition	13924 Jul 11 19:18 13924 Jul 21 04:54	1°≈14'53	0°50'55	minimum elong	13929 May 29 22:04	18° Ⅱ 04'09 20° Ⅱ 52'11	0°20'09
direct	13924 Jul 21 04:54 13924 Sep 09 07:05	30°Rる 26°る16'11		morning rise	13929 Jun 11 17:33 13929 Jul 26 08:33	20° Щ 3211	
direct	13924 Sep 09 07:03 13924 Oct 29 02:12	20° ⊘ 10°11			13929 Jul 26 08:33 13929 Oct 12 07:02	8° © 08'24	
ovening set	13924 Oct 29 02.12 13925 Jan 13 12:55	0 ≈ 14°≈45'15		retrograde opposition	13929 Oct 12 07.02 13929 Dec 12 04:16	3°9514'43	0038140
evening set	13925 Jan 14 15:22	14 ≈43 13 15°≈		min. Earth dist.	13929 Dec 12 04.16 13929 Dec 13 19:13	3°902'13	4.34914 AU
	13923 Jan 14 13.22	13 🗫		iiiii. Eartii tiist.	13930 Jan 08 17:22	30°RⅡ	4.34914 AU
conjunction	13925 Jan 26 23:50	17° ≈ 46'03	0°35'15	direct	13930 Feb 12 04:00	28° ∏ 14'28	
minimum elong	13925 Jan 26 23:50	17 ≈46'03 17°≈46'03	0°36'03	direct	13930 Mar 18 12:18	20 п 1420	
max. Earth dist.	13925 Jan 29 02:09	17 ≈ 40 05 18° ≈ 14'15	6.25790 AU	evening set	13930 Jun 17 08:13	16° © 13'21	
morning rise	13925 Feb 09 10:27	20°≈46'21	0.23790 AU	max. Earth dist.	13930 Jun 27 20:15	18°935'32	6.26774 AU
morning risc	13925 Mar 25 14:03	0° ∺		max. Lattii dist.	13/30 Juli 2/ 20.13	10 33332	0.20774 AC
retrograde	13925 Jun 13 19:18	8° ∺ 43'01		conjunction	13930 Jun 30 04:36	19° © 07'27	-0°31'//3
min. Earth dist.	13925 Aug 12 05:05	3°¥50′52	4.33997 AU	minimum elong	13930 Jun 30 04:36	19° S 07'27	
opposition	13925 Aug 12 03:03	3° ¥ 42′08	0°49'20	morning rise	13930 Jul 13 00:20	22°901'35	0 32 40
оррозиюн	13925 Sep 14 02:40	30°R≈	0 1920	morning rise	13930 Aug 18 23:27	0°Ω	
direct	13925 Oct 13 00:15	28°≈42'10		retrograde	13930 Nov 15 05:01	10° Ω 19'13	
	13925 Nov 11 06:06	0° ∀		opposition	13931 Jan 14 15:45	5°Ω24'50	-0°51'50
evening set	13926 Feb 15 11:51	16° ¥ 21'49		min. Earth dist.	13931 Jan 16 04:51	5° Ω 12'47	
<i>3</i> - 1 - 1				direct	13931 Mar 16 12:31	0° Ω 25'54	
conjunction	13926 Feb 28 18:50	19°) 14'43	0°29'29		13931 Jul 01 16:40	15°Ω	
minimum elong	13926 Feb 28 18:50	19°) 14'43	0°29'47	evening set	13931 Jul 20 13:02	19° Ω 19'18	
max. Earth dist.	13926 Mar 01 20:30	19°) 28'40	6.41121 AU	max. Earth dist.	13931 Jul 31 13:38	21° Ω 54'39	6.09124 AU
morning rise	13926 Mar 14 00:38	22°) €06'51					
C	13926 Apr 21 12:49	0° Y		conjunction	13931 Aug 02 11:42	22° Ω 21'48	-0°34'58
retrograde	13926 Jul 14 01:55	9° Y '09'33		minimum elong	13931 Aug 02 11:42	22° Ω 21'48	0°35'42
opposition	13926 Sep 12 23:29	4° Y 11'34	0°33'58	morning rise	13931 Aug 15 10:52	25° Ω 24'54	
min. Earth dist.	13926 Sep 12 15:47	4° Y 14'04	4.46490 AU		13931 Sep 04 08:22	0° ™	
	13926 Oct 21 13:35	30° Ŗ ₩		retrograde	13931 Dec 21 22:17	14° m 58'05	
direct	13926 Nov 13 18:49	29° ∺ 11′00		opposition	13932 Feb 19 17:28	10° Mp 02'02	-0°48'07
	13926 Dec 07 04:00	0° Y		min. Earth dist.	13932 Feb 20 17:10	9° m 54'13	4.01038 AU
evening set	13927 Mar 18 15:04	16° Y 20′11		direct	13932 Apr 19 07:15	5° m 05'01	
				evening set	13932 Aug 24 03:25	24° m 52'11	
conjunction	13927 Mar 31 17:49	19° Y ′08′03	0°15'49				
minimum elong	13927 Mar 31 17:50	19° Ƴ 08'03	0°15'35	conjunction	13932 Sep 06 07:13	28° Mp 03'37	-0°25'50
behind sun begin	13927 Mar 31 16:04	19° Ƴ 07'07		minimum elong	13932 Sep 06 07:14	28° Mp 03'38	0°25'57
behind sun end	13927 Mar 31 19:35	19° Ƴ 08'59		max. Earth dist.	13932 Sep 05 13:21	27° m 52'46	5.94675 AU
max. Earth dist.	13927 Mar 31 14:10	19° Y ′06′06	6.49929 AU		13932 Sep 14 06:45	0∘ ⊽	
morning rise	13927 Apr 13 19:04	21° Y 55'06		morning rise	13932 Sep 19 12:21	1° ≏ 16′03	
	13927 May 24 00:03	0° 8		retrograde	13933 Jan 28 13:50	21° ≏ 51'39	
retrograde	13927 Aug 12 15:30	8° 8 31'55		opposition	13933 Mar 28 21:24	16° ≏ 53'02	
opposition	13927 Oct 12 19:19	3° 8 36'22		min. Earth dist.	13933 Mar 28 20:46		3.90569 AU
min. Earth dist.	13927 Oct 13 06:49	3° 8 32'40	4.51185 AU	direct	13933 May 26 06:49	11° ≏ 57'38	
	13927 Nov 13 07:12	30° ₹ Υ			13933 Sep 21 13:27	0°M	
direct	13927 Dec 14 05:12	28° Y 35'35		evening set	13933 Sep 30 19:03	2° ™ 14'09	
1 1	13928 Jan 14 09:04	0°8		. ,.	12022 0 4 14 04 21	50 M 21100	0007100
desc. node	13928 Mar 19 10:50	9° 8 47'48		conjunction	13933 Oct 14 04:31	5°M31'00	
avanina aat	13928 Apr 13 20:16	15° 8		minimum elong	13933 Oct 14 04:30	5°M30'59	0°05'37
evening set	13928 Apr 16 19:27	15° 8 37'44		behind sun begin behind sun end	13933 Oct 13 20:30	5°M26'06 5°M35'52	
conjunction	13928 Apr 29 18:42	18° 8 24'04	-0°01'52	max. Earth dist.	13933 Oct 14 12:30 13933 Oct 14 23:37	5°M42'42	5.89283 AU
minimum elong	13928 Apr 29 18:43	18° 8 24'05		morning rise	13933 Oct 14 25.37 13933 Oct 27 16:04	8°M48'54	J.07203 AU
behind sun begin	13928 Apr 29 10:43	18° 8 19'49	0 0233	morning 1150	13933 Oct 27 16.04 13933 Nov 22 17:26	8 11648 34 15°M	
behind sun end	13928 Apr 29 10.43 13928 Apr 30 02:43	18° 8 28'20		asc. node	13934 Jan 29 12:53	27°M23'13	
max. Earth dist.	13928 Apr 30 02:43 13928 Apr 28 13:27	18° 8 08'24	6.50182 AU	retrograde	13934 Mar 08 07:53	29°M40'50	
morning rise	13928 May 12 16:07	21° 8 09'41		opposition	13934 May 06 13:28	24°M39'14	0°08'45
	13928 Jun 25 20:21	0°Ⅱ		min. Earth dist.	13934 May 05 12:22	24°M47'44	3.90991 AU
	2,22,3411 20 20.21					= : nv // 17	

1994 Now 20 105	direct	13934 Jul 03 14:00	19°M43'43		conjunction	13940 May 03 21:08	22° 8 33'48	-0°04'20
Conjunction		13934 Sep 26 01:06				•	_	0°05'06
	evening set	13934 Nov 08 02:35	9° ∡ ¹48'35		2	•	_	
Marie Name 1994 No. 2 1500 1570 17								
aux. Earth dist 13944 Now 23 1823 1873 409 60 551 672 00 50 composition on min Earth dist. 13940 Now 15 00 50 7110910 0*179 0 44798 AU composition on 13943 April 10 601 17541152 17541752 425177 composition on 13943 April 10 601 17541152 621737 composition on 13943 April 10 601 17541152 621737 composition on 13943 April 10 601 17541152 621737 composition on 13941 April 10 2020 22170312 60177 AU direct 13935 Sup 12 50 2217 100782 675185 composition on 13941 April 10 2020 22170312 671732 671731 direct 13935 Sup 12 50 210 1755042 composition on 13941 April 10 81 2333 27170070 67215 67174 67225 composition on 13941 April 10 81 2333 27217017 67225 composition on 13941 April 10 81 2333 27217017 67225 composition on 13941 April 10 81 2433 27217017 67225 composition on 13941 April 10 81 2433 27217017 67225 composition on 13941 April 10 81 2434 17225 composition on 13941 April 10 81 2434 17225 composition on 13941 April 10 81 2434 17225 composition on 13941 A					morning rise	•	_	
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1935 1946 1974 1975 1974 1975 1974				5.95433 AU	•	•		
Internation 1935 Agr 14 07-54 0752217 1975 1971 1972 1975 1971 1971 1972 1975 1971 1972 1975 1975 1971 1975 1971 1975 1972 1975 197	morning rise							
sin. Earl disk. or jan. 1 sid. sid. j. sid. j. sid. sid. j. si								4.45983 AU
Population 1935 Jun 2 92.00 1~32.85 0.7810 max. Earth dist. 394 Jun 3 30.00 2.0°T.1521 5.0°170 1.0°T.50	•	1		4.00105.477				
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Second 1935 28 mg 26 mg 26 mg 27 m	opposition			0°38'10	max. Earth dist.	13941 May 31 23:02	21°Щ52′21	6.401// AU
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Conjunction 13935 Dec 28 20:55 18**Sey17 0*31724 retorgate 13941 Dec 16 17:06 12**933711 1391 Dec 16 17:06 12**933711 1391 Dec 17 19**25 13935 Dec 31 09:29 19**25**25**25 13925 Dec 31 09:29 19**25**25**25 13925 Dec 31 09:29 19**25**25**25**25**25**25**25**25**25**2	avaning sat	=			_			0 22 13
Conjunction 13935 Dec 28 20.55 8°-85'917 0°12142 retrograde 13941 Dec 16 17.06 12°-922141 3.91 Dec 18 17.06 12°-922141 3.91 Dec 18 17.07 3.92 Sept 28 1.09 17.00 3.91 Dec 18 17.07 3.92 Sept 28 1.09 17.00 3.91 Dec 18 17.00 3.92 Sept 29 N.	evening set	13933 DCC 13 07.42	15 05042		morning risc			
minimum elong minimum elo	conjunction	13935 Dec. 28, 20:55	18°₹50'17	0°31'24	retrograde			
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Process of the content of the co	opposition	13936 Jul 16 12:07	6°≈04'23	0°51'42	conjunction	13942 Jul 04 14:10	23° © 39'31	-0°32'47
evening set		13936 Sep 14 02:49	1° ≈ 05'31			13942 Jul 04 14:09	23° © 39'31	0°33'48
conjunction 1937 Jan 31 17:31 22°≈26′34 0°35′48 retrograde 13942 Nov 20 02:55 15°πΩ 11′5 π 20°11′5 minimum elong 13937 Jan 31 17:31 22°≈26′34 0°35′48 max. Earth dist. 13937 Feb 10 16:36 22°≈62′52 628214 AU opposition 13943 Jan 19 10:29 10°πΩ 31′3 17:31 22°≈26′26 min. Earth dist. 13937 Mar 07 06:33 0°°14 min. Earth dist. 13943 Jan 19 10:29 10°πΩ 31′3 17:14 13°11′1			15° ≈			13942 Jul 17 10:17	26° © 34'50	
Conjunction 13937 Jan 31 1730 22°8~26'33 0'3503 retrograde 13942 Nov 20 02.55 15° Q.0'15 75° Q.0'15 7	evening set	13937 Jan 18 07:12	19° ≈ 27'01			13942 Aug 01 16:43	$0^{\circ}\Omega$	
minimum elong max. Earth dist. 13937 Feb 02 1630 22°×85263 0°3548 enoposition opposition in 13943 Jan 19 10:20 10° 0°063 0°52°26 morning rise 13937 Feb 1 40 3330 0°4 direct 13943 Jan 12 0 23:37 9°026'637 4.15147 AU retrograde 13937 Mar 0° 06:33 0°4 direct 13943 Jan 13 19:20 15°02 5°009'57 4.15147 AU opposition 13937 Mar 0° 06:33 0°4 ***125 evening set 13943 Mar 21 0:404 5°009'57 4.06124 opposition 13937 Aug 16 16:14 8°4*12'32 0°4753 evening set 13943 Aug 0° 10:45 26°05'05 26°01'05 0.60416 AU direct 13937 Aug 16 17:18 8°4*12'32 0°475'53 evening set 13943 Aug 0° 10:61 27°016'35 0°34'27 evening set 13938 Mar 0°5 04:49 23°*437'52 0°275'8 minimum elong 13943 Aug 0° 10:61 27°016'35 0°30'80 evening set 13938 Mar 05 04:50 23°*437'52 0°212'12 morning rise 13943 Aug 0° 10:62 27°016'35 0°30'80 max.						13942 Nov 14 07:30	15° Ω	
max. Earth dist. 13937 Feb 14 0309 25°se5255 0.82814 AU opposition 13943 Jan 19 10.29 10°Q0843 0°5226 morning rise 13937 Jan 10°330 0°4 15°147 AU direct 13943 Jan 20 23.39 0°50537 4.15147 AU direct 13943 Jan 20 23.30 0°540 15°4	conjunction	13937 Jan 31 17:30	22° ≈ 26'33	0°35'03	retrograde	13942 Nov 20 02:55	15° Ω 03'15	
morning rise 13937 Feb 14 03:30 25°≈2535 min. Earth dist. 13943 Jan 20 23:37 9°£0567 4.15147 AU 13937 Mar 07 06:33 0°# direct 13943 Mar 21 0.404 5°£0957 5°£0957 4.15147 AU 13943 Mar 21 0.404 5°£0957 5°£0957 4.15147 AU 13943 Mar 21 0.404 5°£0957 5°£0957 4.15147 AU 13943 Mar 21 0.404 5°£0957 4.15147 AU 13943 Mar 13 19.28 15°£0 4.15147 AU 13943 Mar 13 19.28 13943 Mar 15 0.45 2.25 2.27 ±4.1525	minimum elong	13937 Jan 31 17:31	22° ≈ 26'34	0°35'48		13942 Nov 25 22:22	15°R Ω	
crograde 13937 Mar 17 06.33 0°H direct 13943 Mar 21 04.04 5° Ω0957 crograde 13947 Jun 18 03.54 13°H2120 0°4753 cevening set 13943 Jun 13 1928 15° Ω 3° Ω0957 6.6416 AU min. Earth dist. 13937 Aug 16 17:18 8°H 2019 4.36239 AU max. Earth dist. 13943 Aug 05 10.45 26° Ω5045 6.06416 AU direct 13937 Oct 17 15.02 3°H 1226 conjunction 13943 Aug 07 06:19 27° Ω1635 0°3427 conjunction 13938 Mar 05 0449 23°H 3752 0°2758 morning 13943 Aug 07 06:20 27° Ω1635 0°3508 minimum clong 13938 Mar 05 0449 23°H 3752 0°2812 morning rise 13943 Aug 20 06:13 0°№ 1118 0°№ 118 morning rise 13938 Mar 18 09:56 26°H 2900 06281 13943 Aug 20 06:13 0°№ 118 0°№ 118 retrograde 13938 Mar 18 09:56 26°H 2900 0°97 min. Earth dist. 13944 Feb 2 4 21.35 15° № 0955 0°4603 retrograde 13938 Nay 18 012.23 8° ½2753 0°3103 13° ½2712	max. Earth dist.	13937 Feb 02 16:36	22° ≈ 52'50	6.28214 AU	opposition	13943 Jan 19 10:29	10° Ω 08'43	-0°52'26
Petrograde 13937 Jun 18 03:54 13° \times 13° \times 13° \times 13° \times 13° \times 13937 Aug 17 16:54 8° \times 8° \times 20° \times 436239 AU max. Earth dist. 13943 Aug 05 10:45 26° \times 26	morning rise	13937 Feb 14 03:30	25° ≈ 25'35		min. Earth dist.	13943 Jan 20 23:37	9° Ω 56′37	4.15147 AU
opposition 13937 Aug 17 16:54 8°χ12'32 0°47'53 evening set 13943 Jul 25 06:53 24°Ω12'34 6.06416 AU min. Earth dist. 13937 Aug 16 17:18 8°χ12'19 4.36239 AU max. Earth dist. 13943 Aug 05 10:45 26°Ω16'35 6.06416 AU direct 13938 Feb 19 22:25 20°χ45'56 conjunction 13943 Aug 07 06:19 27°Ω16'35 0°34'27 conjunction 13938 Mar 05 04:49 23°X37'52 0°27'58 morning rise 13943 Aug 07 06:20 27°Ω16'35 0°35'08 max. Earth dist. 13938 Mar 05 04:49 23°X37'52 0°27'58 morning rise 13943 Aug 07 06:10 0°0 0°0 max. Earth dist. 13938 Mar 18 09:56 26°X29'00 0°28'12 morning rise 13943 Aug 20 06:13 0°0 0°0 0°0 0°20'13 0°0 0°0 0°0 13943 Aug 20 06:13 0°0 0°0 0°0 0°20'13 0°0 0°0 0°0 0°20'13 0°0 0°0 0°0 0°0 0°0 0°0 0°0 0°0 0°0 0°0 0°0		13937 Mar 07 06:33	0°) €		direct	13943 Mar 21 04:04		
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conjunction 13938 Feb 19 22:25 20°\(\frac{\chi*}{4575} \) conjunction minimum elong 13943 Aug 07 06:10 27°\(\hat{\chi*}\) 1395 0°3508 0°3508 0°3508 0°3978 0°3	min. Earth dist.	=		4.36239 AU	max. Earth dist.	13943 Aug 05 10:45	26° Ω 50'45	6.06416 AU
minimum elong 13943 Aug 07 06.20 27°Ω1635 0°35′08 0°35′08 13943 Aug 18 18:15 0° m 13943 Mag 08 18:15 0° m 13943 Mag 18 18:15 0° m 13944 Mag 18 18:15 13946 Mag 18 18								
Conjunction 13938 Mar 05 04:49 23° \(\) 37'52 0°27'58 0°28'12 morning rise 13943 Aug 18 18:15 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\)	evening set	13938 Feb 19 22:25	20° 米 45′56		•			
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min. Earth dist. 13938 Sep 16 21:51 8°Y29'49 4.47934 AU evening set 13944 Aug 29 06:57 0°♣08'28' direct 13938 Nov 18 01:20 3°Y27'17 evening set 13939 Mar 22 20:12 20°Y33'03 conjunction 13944 Sep 11 11:32 3°♣21'12 0°23'35 minimum elong 13939 Apr 04 22:23 23°Y20'20 0°13'32 max. Earth dist. 13944 Sep 10 21:28 3°♣12'38 5.92811 AU minimum elong 13939 Apr 04 17:45 23°Y17'52 retrograde 13945 Feb 03 00:56 27°♣18'19 behind sun end 13939 Apr 04 17:45 23°Y17'52 retrograde 13945 Apr 03 07:56 22°♣19'15 -0°20'51 max. Earth dist. 13939 Apr 14 12:35 26°Y06'48 direct 13945 Sep 03 10:11 0°14 19:09 13939 Apr 17 22:52 26°Y06'48 direct 13945 Sep 03 10:11 0°14 19:09 13939 Apr 17 12:18 7°841'25 evening set 13939 Oct 16 21:28 7°841'25 4.51455 AU conjunction 13945 Oct 19 15:11 11°10'035 0°02'19 desc. node 13940 Apr 20 22:31 19°847'33 max. Earth dist. 13945 Nov 02 03:23 14°11'55 5.89089 AU max. Earth dist. 13940 May 02 10:53 22°451'52 6.4991 AU morning rise 13945 Nov 02 03:23 14°11'55 15°02'35 5.89089 AU max. Earth dist. 13940 May 02 10:53 22°451'52 6.4991 AU morning rise 13945 Nov 02 03:23 14°11'15'15' 5.89089 AU max. Earth dist. 13940 May 02 10:53 22°4515'25 6.4991 AU morning rise 13945 Nov 02 03:23 14°11'15'15' 5.89089 AU max. Earth dist. 13940 May 02 10:53 22°4515'25 6.4991 AU morning rise 13945 Nov 02 03:23 14°11'15'15' 5.89089 AU max. Earth dist. 13940 May 02 10:53 22°4515'25 6.4991 AU morning rise 13945 Nov 02 03:23 14°11'15'55'	•			0°21'02	direct	•		
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behind sun end evening set 13940 Mar 28 20:22 15°8 behind sun end max. Earth dist. 13945 Oct 19 23:32 11° Mo5'41 evening set 13940 Apr 20 22:31 19°847'33 max. Earth dist. 13945 Nov 02 10:53 12°815'25 6.49791 AU morning rise 13945 Nov 02 03:23 14° Mo18'55 5.89089 AU	direct	13939 Dec 18 10:06			minimum elong	13945 Oct 19 15:11	11°M00'36	0°02'19
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·	•	-						5.89089 AU
13945 Nov 04 23:05 15°M	max. Earth dist.	13940 May 02 10:53	22° 8 15'25	6.49791 AU	morning rise			
						13945 Nov 04 23:05	15"IIL	

asc. node	13945 Dec 10 04:07	23°M10'18		opposition	13951 Oct 21 01:47	11° 8 58'59	0°03'06
asc. Houe	13946 Jan 14 13:28	0° x ¹		min. Earth dist.	13951 Oct 21 01.47 13951 Oct 21 18:20	11° 8 53'41	4.51285 AU
ratragrada	13946 Mar 13 18:53	5° ∡ ¹09'47		desc. node	13951 Dec 05 09:57	7° 8 24'46	4.51265 AU
retrograde		3 x ·0947 0° x ¹07'47	0012122	direct	13951 Dec 03 09.57 13951 Dec 22 13:58	6° 8 58'09	
opposition	13946 May 11 23:27			direct		_	
min. Earth dist.	13946 May 10 20:06		3.91721 AU		13952 Mar 10 20:32	15° 8	
1.	13946 May 12 22:23	30°RM		evening set	13952 Apr 25 03:13	24° 8 01'36	C 400 40 ATT
direct	13946 Jul 09 00:50	25°M12'07		max. Earth dist.	13952 May 06 13:08	26° 8 28'26	6.48942 AU
	13946 Sep 02 05:30	0° ∡¹			1205216 00 01 25	200111002	000 (150
evening set	13946 Nov 13 12:14	15° ∡ 12'51		conjunction	13952 May 08 01:35	26° 8 48'03	
		_		minimum elong	13952 May 08 01:34	26° 8 48'02	0°07'40
conjunction	13946 Nov 27 01:45	18° ∡ ¹27'50	0°18'54	behind sun begin	13952 May 07 18:21	26° 8 44'10	
minimum elong	13946 Nov 27 01:44	18° ∡ ¹27'50	0°19'55	behind sun end	13952 May 08 08:48	26° 8 51'54	
max. Earth dist.	13946 Nov 29 08:28	19° ∡ ¹00'39	5.96990 AU	morning rise	13952 May 20 22:12	29° 8 33'49	
morning rise	13946 Dec 10 16:39	21° ∡ ⁴43′18			13952 May 22 23:16	Π °0	
	13947 Jan 16 00:48	0°ಕ		retrograde	13952 Sep 19 04:57	16° Ⅱ 21'15	
retrograde	13947 Apr 19 08:02	11° る 46'07		opposition	13952 Nov 19 08:10	11° Ⅱ 27′25	
min. Earth dist.	13947 Jun 16 06:30	6° る 55'58	4.04333 AU	min. Earth dist.	13952 Nov 20 17:05	11° Ⅱ 16′54	4.44497 AU
opposition	13947 Jun 17 21:50	6° る 42'40	0°41'10	direct	13953 Jan 20 18:39	6° Ⅱ 26'43	
direct	13947 Aug 15 13:18	1° る 45'16		evening set	13953 May 25 13:16	23° ∏ 54'51	
evening set	13947 Dec 20 10:55	20° る 55'49		max. Earth dist.	13953 Jun 05 03:13	26° Ⅱ 14'30	6.38140 AU
conjunction	13948 Jan 02 23:44	24° る 03'03	0°32'37	conjunction	13953 Jun 07 09:37	26° Ⅱ 44'32	-0°23'16
minimum elong	13948 Jan 02 23:44	24° る 03'02	0°33'37	minimum elong	13953 Jun 07 09:37	26° Ⅱ 44'31	0°24'20
max. Earth dist.	13948 Jan 05 10:51	24° る 37'09	6.12981 AU	morning rise	13953 Jun 20 04:59	29° ∏ 33'56	
morning rise	13948 Jan 16 13:10	27° ප 10'10			13953 Jun 22 04:31	0 \circ \odot	
	13948 Jan 29 01:27	0° ≈		retrograde	13953 Oct 21 09:34	17° © 05'13	
	13948 Apr 27 12:38	15° ≈		opposition	13953 Dec 21 04:21	12°©11'26	-0°43'40
retrograde	13948 May 22 02:45	15° ≈ 58′00		min. Earth dist.	13953 Dec 22 20:37	11° © 58'27	4.30284 AU
C	13948 Jun 15 12:48	15°R≈		direct	13954 Feb 20 21:49	7° © 11'22	
min. Earth dist.	13948 Jul 19 18:00	11° ≈ 07'09	4.21996 AU	evening set	13954 Jun 26 07:32	25°525'28	
opposition	13948 Jul 21 05:15	10° ≈ 55'21	0°52'05	max. Earth dist.	13954 Jul 06 20:43	27°549'59	6.21531 AU
direct	13948 Sep 19 01:48	5°≈56'10					
	13948 Dec 10 05:09	15° ≈		conjunction	13954 Jul 09 04:25	28° © 21'54	-0°33'42
evening set	13949 Jan 23 01:10	24°≈09'08		minimum elong	13954 Jul 09 04:25	28° © 21'54	
evening sec	15919 0011	21.70.05.00		g	13954 Jul 16 07:30	0° Ω	0 3 0
conjunction	13949 Feb 05 11:04	27° ≈ 07'23	0°34'36	morning rise	13954 Jul 22 00:48	1° Ω 18'29	
minimum elong	13949 Feb 05 11:05	27°≈07'23	0°35'15	morning rise	13954 Sep 27 19:26	15° Ω	
max. Earth dist.	13949 Feb 07 08:43	27°≈32'42	6.30806 AU	retrograde	13954 Nov 25 04:46	19° Ω 58'13	
morning rise	13949 Feb 18 20:16	0° ∺ 05'00	0.50000 AC	opposition	13955 Jan 24 10:00	15° Ω 03'33	0°52'40
morning risc	13949 Feb 18 11:10	0° ∺		оррозион	13955 Jan 24 20:54	15° ₽. Ω	-0 32 40
retrograde	13949 Jun 22 10:17	17° ¥ 42'52		min. Earth dist.	13955 Jan 25 21:35		4.12406 AU
min. Earth dist.	13949 Aug 21 03:52	17 X 42 32	4.38508 AU	direct	13955 Mar 25 22:02	14° Ω 05'06	4.12400 AU
opposition	13949 Aug 21 03:32 13949 Aug 22 02:01	12° H 42'45	0°46'06	direct	13955 May 22 08:14	10 % 03 00	
direct	13949 Aug 22 02:01 13949 Oct 22 03:21	7°\(\frac{42}{42}\)'32	0 40 00	evening set	13955 Jul 30 05:37	29° Ω 16'50	
evening set	13949 Oct 22 03:21 13950 Feb 24 08:54	25°\(\frac{42}{5}\)		evening set	13955 Aug 02 06:33	0° mp	
evening set	13930 FC0 24 06.34	23 10936		may Earth dist	-		6.03892 AU
conjunction	13950 Mar 09 14:32	28° ₩ 00'55	0°26'15	max. Earth dist.	13955 Aug 10 12:26	1 11/3/43	0.03892 AU
minimum elong	13950 Mar 09 14:33	28°\(\frac{1}{100}\) 33	0°26'24	conjunction	13955 Aug 12 05:34	2° m 22'15	0022120
max. Earth dist.	13950 Mar 10 08:05	28° X 10'23	6.44801 AU	minimum elong	13955 Aug 12 05:35	2° my 22' 15	
max. Earm dist.	13950 Mar 18 19:39	28 γ 10 23	0.44601 AU	morning rise	•		0 34 14
		0° Υ 51'05		-	13955 Aug 25 06:27	5° Mp 28'26	
morning rise	13950 Mar 22 19:00	17° Y 42'04		retrograde	13956 Jan 01 15:23	25° m 24'31	00.42120
retrograde	13950 Jul 22 08:07	17° Y 42'04 12° Y 44'49	0927154	opposition	13956 Mar 01 06:22	20° m 27'53	
opposition	13950 Sep 21 08:25		0°27'54	min. Earth dist.	13956 Mar 01 23:24		3.96586 AU
min. Earth dist.	13950 Sep 21 06:22	12° Y 45′29	4.49124 AU	direct	13956 Apr 29 09:27	15° m/31'29	
direct	13950 Nov 22 10:04	7° Υ '44'06			13956 Aug 11 05:07	0∘ ⊽	
evening set	13951 Mar 27 02:00	24° Ƴ 47′22		evening set	13956 Sep 03 14:05	5° ≏ 33'08	
aaniumatian	12051 4 00 02:40	27° Ƴ 34'15	0011100	agniumation	12056 Can 16 10:42	00 0 46150	0021104
conjunction	13951 Apr 09 03:40	27° Y 34'15	0°11'08 0°10'44	conjunction	13956 Sep 16 19:42	8° Ω 46'58	
minimum elong	13951 Apr 09 03:40	27° Y 34'15 27° Y 30'59	0 1044	minimum elong	13956 Sep 16 19:43	8° Ω 46'59	
behind sun begin	13951 Apr 08 21:31	27° Y 30'59		max. Earth dist.	13956 Sep 16 12:59		5.91491 AU
behind sun end	13951 Apr 09 09:49		6 51222 ATT	morning rise	13956 Sep 30 02:49	12° Ω 01'51	
max. Earth dist.	13951 Apr 08 16:18	27° Y 28'12	6.51332 AU	natna a J-	13956 Dec 28 07:09	0°M	
	13951 Apr 20 13:18	0° 8		retrograde	13957 Feb 08 16:06	2°M50'09	
morning rise	13951 Apr 22 03:37	0° 8 20'19		ommogiti	13957 Mar 23 06:49	30° ₹ Ω	001707
rotro a J-	13951 Jul 16 02:25	15° 8		opposition	13957 Apr 08 20:53	27° Ω 50'42	
retrograde	13951 Aug 20 20:17	16° 8 54'01		min. Earth dist.	13957 Apr 08 12:43	27° £ 53'27	3.89067 AU
	13951 Sep 25 15:22	15° ₹ 8		direct	13957 Jun 06 01:56	22° £ 55'33	

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	13957 Aug 13 02:43	0° M ₊		minimum elong	13963 Apr 13 07:08	1° 8 45'31	0°08'15
evening set	13957 Oct 11 16:10	13°M14'38		behind sun begin	13963 Apr 13 00:03	1° 8 41'45	
asc. node	13957 Oct 17 14:42	14°M41'36		behind sun end	13963 Apr 13 14:13	1° 8 49'16	
	13957 Oct 18 20:47	15° ™		max. Earth dist.	13963 Apr 12 15:09	1° 8 36'59	6.51415 AU
				morning rise	13963 Apr 26 06:36	4° 8 31'22	
conjunction	13957 Oct 25 03:09	16°M32'01	0°00'27	morning rise	13963 Jun 19 06:52	15°B	
minimum elong	13957 Oct 25 03:07	16°M32'00	0°01'08	retrograde	13963 Aug 25 01:01	21° 8 05'44	
behind sun begin	13957 Oct 24 18:46	16°M26'55	0 01 00	desc. node	13963 Oct 17 02:25	17° 8 12'53	
behind sun end	13957 Oct 25 11:29	16°M37'06		opposition	13963 Oct 25 05:18	16° 8 11'00	-0°00'34
max. Earth dist.	13957 Oct 26 10:33	16°ML51'14	5.89639 AU	min. Earth dist.	13963 Oct 26 01:31	16° 8 04'31	4.50662 AU
morning rise	13957 Nov 07 16:01	19°M50'20	3.89039 AU	iiiii. Eartii tiist.	13963 Nov 03 12:55	15°R B	4.30002 AU
morning risc	13957 Dec 21 21:49	0° √		direct	13963 Dec 26 18:42	11° 8 10'09	
ratragrada		10° ∡ ¹36'37		direct		15° 8	
retrograde	13958 Mar 19 02:00		2 02101 ATT		13964 Feb 17 10:09		
min. Earth dist.	13958 May 16 01:21	5° × 44'50	3.93181 AU	evening set	13964 Apr 29 07:43	28° ႘ 16'22 0° Ⅱ	
opposition	13958 May 17 08:25	5°×734'18	0°18'12	E d Ed	13964 May 07 08:39		C 47(51 ATT
direct	13958 Jul 14 09:41	0° ₹38'29		max. Earth dist.	13964 May 10 13:06	0°Щ41′14	6.47651 AU
evening set	13958 Nov 18 20:28	20° ∡ ³32'32			1207434 12 05 44	101100	0000120
	12050 0 00 00 55	222 7 4 6 122	0001100	conjunction	13964 May 12 05:44	1° Ⅱ 03'09	
conjunction	13958 Dec 02 09:55	23° х 46'28	0°21'28	minimum elong	13964 May 12 05:43	1° Ⅱ 03'08	0°10'12
minimum elong	13958 Dec 02 09:54	23° ∡ ¹46′28	0°22'31	behind sun begin	13964 May 11 23:20	0°∏59'43	
max. Earth dist.	13958 Dec 04 17:54	24° ⋌ 19'52	5.99178 AU	behind sun end	13964 May 12 12:05	1°∏06'34	
morning rise	13958 Dec 16 00:50	27° ∡ 00'50		morning rise	13964 May 25 02:11	3° ∏ 49′20	
	13958 Dec 28 19:10	0°ಕ		retrograde	13964 Sep 23 13:51	20° ∏ 42′00	
retrograde	13959 Apr 24 05:45	16° ප් 52'42		opposition	13964 Nov 23 16:06	15° Ⅱ 48'14	
min. Earth dist.	13959 Jun 21 06:32	12° る 02'26	4.06980 AU	min. Earth dist.	13964 Nov 25 02:12		4.42627 AU
opposition	13959 Jun 22 21:40	11° る 49'12	0°43'45	direct	13965 Jan 25 00:05	10° ∏ 47'33	
direct	13959 Aug 20 18:05	6° ප් 51'30		evening set	13965 May 29 21:45	28° Ⅱ 21'55	
evening set	13959 Dec 25 10:33	25° る 52'35			13965 Jun 06 07:30	0 \circ ∞	
				max. Earth dist.	13965 Jun 09 12:00	0° © 42'25	6.35831 AU
conjunction	13960 Jan 07 23:08	28° る 58'24	0°33'34				
minimum elong	13960 Jan 07 23:07	28° る 58'23	0°34'34	conjunction	13965 Jun 11 18:12	1° © 12'29	-0°25'11
max. Earth dist.	13960 Jan 10 10:37	29° る 32'30	6.15840 AU	minimum elong	13965 Jun 11 18:11	1° © 12'29	0°26'15
	13960 Jan 12 10:36	0° ≈		morning rise	13965 Jun 24 13:25	4° 5 02'47	
morning rise	13960 Jan 21 11:50	2° ≈ 03'57		retrograde	13965 Oct 26 03:29	21° 5 43'10	
	13960 Mar 25 01:19	15° ≈		opposition	13965 Dec 25 20:17	16° © 49'22	-0°45'48
retrograde	13960 May 26 14:32	20° ≈ 40′02		min. Earth dist.	13965 Dec 27 12:48	16° © 36'18	4.27691 AU
min. Earth dist.	13960 Jul 24 08:45	15° ≈ 49′08	4.24796 AU	direct	13966 Feb 25 09:51	11° 5 649'31	
opposition	13960 Jul 25 18:56	15° ≈ 37'44	0°52'07	evening set	13966 Jun 30 23:03	0° Ω 11'55	
	13960 Jul 30 12:27	15° R ≈			13966 Jun 30 02:12	$0^{\circ}\Omega$	
direct	13960 Sep 23 19:28	10° ≈ 38′25		max. Earth dist.	13966 Jul 11 12:35	2° Ω 37'33	6.18857 AU
	13960 Nov 17 13:11	15° ≈					
evening set	13961 Jan 27 15:50	28° ≈ 43′05		conjunction	13966 Jul 13 20:04	3° Ω 09′33	-0°34'23
	13961 Feb 02 11:41	0° ∀		minimum elong	13966 Jul 13 20:04	3° Ω 09′33	0°35'20
				morning rise	13966 Jul 26 17:05	6° Ω 07'29	
conjunction	13961 Feb 10 00:57	1°) (40′01	0°33'57		13966 Sep 05 09:09	15° Ω	
minimum elong	13961 Feb 10 00:58	1° ¥ 40′01	0°34'33	retrograde	13966 Nov 30 08:01	24° Ω 58′22	
max. Earth dist.	13961 Feb 11 17:31	2° ₩ 02'24	6.33316 AU	opposition	13967 Jan 29 11:25	20° Ω 03′25	-0°52'31
morning rise	13961 Feb 23 09:35	4°) 36′21		min. Earth dist.	13967 Jan 30 20:27	19° £ 52′36	4.09869 AU
retrograde	13961 Jun 26 15:32	22° ∺ 05'33		direct	13967 Mar 30 18:43	15° Ω 05'13	
opposition	13961 Aug 26 08:14	17° ∺ 05'51	0°44'07		13967 Jul 16 07:12	0° ™	
min. Earth dist.	13961 Aug 25 13:36	17° ∺ 11'58	4.40559 AU	evening set	13967 Aug 04 05:31	4° m 24'55	
direct	13961 Oct 26 13:54	12° ∺ 05'31		max. Earth dist.	13967 Aug 15 18:46	7° Mp 10'22	6.01742 AU
evening set	13962 Feb 28 16:22	29° ∺ 27'57					
	13962 Mar 03 04:19	0° Y		conjunction	13967 Aug 17 06:17	7° m 31'38	-0°32'35
				minimum elong	13967 Aug 17 06:18	7° m 31'39	0°33'05
conjunction	13962 Mar 13 21:35	2° Y 18'08	0°24'26	morning rise	13967 Aug 30 07:47	10° m 39'07	
minimum elong	13962 Mar 13 21:36	2° Y 18'08	0°24'30		13967 Dec 16 18:08	0∘ ⊽	
max. Earth dist.	13962 Mar 14 11:50	2° Y 25'47	6.46258 AU	retrograde	13968 Jan 07 02:38	0° ≙ 44'15	
morning rise	13962 Mar 27 01:15	5° Ƴ 07'29			13968 Jan 28 08:35	30°₽,₩	
retrograde	13962 Jul 26 09:04	21° Y ′54'19		opposition	13968 Mar 06 15:18	25° m 47'15	-0°40'30
opposition	13962 Sep 25 11:06	16° Ƴ 57'28	0°24'42	min. Earth dist.	13968 Mar 07 05:32	25° m/42'32	3.95052 AU
min. Earth dist.	13962 Sep 25 11:11	16° Ƴ 57'26	4.49920 AU	direct	13968 May 04 15:12	20° m 51'06	
direct	13962 Nov 26 13:37	11° Y 56'46			13968 Jul 22 19:25	0∘ ⊽	
evening set	13963 Mar 31 06:03	28° Y ′58'52		evening set	13968 Sep 08 21:05	10° ≏ 56'48	
	13963 Apr 05 01:16	9° 8					
				conjunction	13968 Sep 22 03:23	14° ≏ 11'22	-0°18'22
conjunction	13963 Apr 13 07:08	1° 8 45'31	0°08'42	minimum elong	13968 Sep 22 03:24	14° ≏ 11'23	0°18'13
				-			

max. Earth dist.	13968 Sep 22 01:18 13968 Oct 05 11:31	14° £ 10'06 17° £ 27'03	5.90710 AU	min. Earth dist.	13974 Sep 29 18:57 13974 Nov 30 20:17	21° Υ 11'09 16° Υ 11'37	4.50370 AU
morning rise	13968 Nov 30 08:47	0°M		direct	13975 Mar 20 01:03	0° 8	
retrograde	13969 Feb 14 02:07	8°M17'35		evening set	13975 Apr 04 11:42	3° 8 13'33	
opposition	13969 Apr 14 07:33	3°M17'39	-0°11'18				
min. Earth dist.	13969 Apr 13 18:49		3.89144 AU	conjunction	13975 Apr 17 12:28	6° 8 00'06	0°06'11
	13969 May 11 04:47	30° Ŗ Ω		minimum elong	13975 Apr 17 12:28	6°800'06	0°05'40
direct	13969 Jun 11 10:15	28° ₽ 22'29		behind sun begin	13975 Apr 17 04:46	5° 8 56'01	
	13969 Jul 12 13:40	0° M		behind sun end	13975 Apr 17 20:10	6° 8 04'12	
asc. node	13969 Aug 24 04:12	6° M 31'48		max. Earth dist.	13975 Apr 16 17:40	5° 8 50'04	6.51257 AU
	13969 Oct 01 19:10	15° M ₊		morning rise	13975 Apr 30 11:22	8° 8 45'51	
evening set	13969 Oct 17 01:07	18°M39'34			13975 May 30 21:59	15° 8	
				desc. node	13975 Aug 28 18:08	25° 8 21'30	
conjunction	13969 Oct 30 12:32	21°M56'43	0°03'42	retrograde	13975 Aug 29 05:48	25° 8 21'31	
minimum elong	13969 Oct 30 12:32	21°M56'43	0°04'28	opposition	13975 Oct 29 10:44	20° 8 27'03	-0°04'20
behind sun begin	13969 Oct 30 04:20	21°M51'44		min. Earth dist.	13975 Oct 30 08:05	20° 8 20'12	4.49943 AU
behind sun end	13969 Oct 30 20:43	22°M01'42		direct	13975 Dec 30 22:40	15° 8 26'19	
max. Earth dist.	13969 Oct 31 23:44	22°M18'13	5.90544 AU	_	13976 Apr 21 09:00	0°Π	
morning rise	13969 Nov 13 01:55	25° ™ 14'47		evening set	13976 May 03 14:09	2° ∏ 35′29	
	13969 Dec 03 01:33	0° ∡ ¹		max. Earth dist.	13976 May 14 17:44	4° ∏ 59'48	6.46438 AU
retrograde	13970 Mar 24 06:20	15° 🗷 55'17	2 0 4 5 0 5 4 4 4		1205() (16 11 10	50 Taa la (0011110
min. Earth dist.	13970 May 21 05:43	11° × 703'38	3.94785 AU	conjunction	13976 May 16 11:49	5° Ⅱ 22'36	
opposition	13970 May 22 14:10	10° ₹ 52'37	0°22'37	minimum elong	13976 May 16 11:49	5° Ⅲ 22'35 5° Ⅲ 19'53	0°12'45
direct	13970 Jul 19 18:12	5° ₹ 56'32 25° ₹ 43'42		behind sun begin behind sun end	13976 May 16 06:47 13976 May 16 16:50	5° П 25'18	
evening set	13970 Nov 24 01:27	23 X '43 42		morning rise	13976 May 10 10.30 13976 May 29 07:58	3 П 23 18 8° П 09'09	
conjunction	13970 Dec 07 15:05	28° ∡ ¹56'39	0°23'49	retrograde	13976 Nay 29 07:38 13976 Sep 28 01:48	25° П 06'50	
minimum elong	13970 Dec 07 15:04	28° 🖈 56'39	0°24'52	opposition	13976 Nov 28 02:23	20° Ⅱ 13'14	-0°29'27
max. Earth dist.	13970 Dec 07 13:04 13970 Dec 10 01:52		6.01318 AU	min. Earth dist.	13976 Nov 29 14:09	20° Ⅱ 01'47	4.41013 AU
max. Lartii dist.	13970 Dec 10 01:52	0°る	0.01510710	direct	13977 Jan 29 09:08	15° П 12'46	4.41015710
morning rise	13970 Dec 21 05:43	2° ろ 09'52		direct	13977 May 21 03:41	0°95	
retrograde	13971 Apr 29 01:33	21° る 51'17		evening set	13977 Jun 03 07:39	2° © 52'18	
min. Earth dist.	13971 Jun 26 03:19	17° る 01'03	4.09417 AU	max. Earth dist.	13977 Jun 13 20:13	5° © 12'31	6.33946 AU
opposition	13971 Jun 27 18:24	16° ප් 47'52	0°45'59				
direct	13971 Aug 25 18:15	11° る 49'56		conjunction	13977 Jun 16 03:54	5° © 43'33	-0°27'01
	13971 Dec 27 04:34	0° ≈		minimum elong	13977 Jun 16 03:53	5° 5 43'33	0°28'05
evening set	13971 Dec 30 08:09	0° ≈ 42'47		morning rise	13977 Jun 28 23:16	8° 5 34'39	
				retrograde	13977 Oct 30 21:21	26°\$22'46	
conjunction	13972 Jan 12 20:12	3° ≈ 47'18	0°34'18	opposition	13977 Dec 30 13:03	21° © 28'51	-0°47'42
minimum elong	13972 Jan 12 20:12	3° ≈ 47′18	0°35'15	min. Earth dist.	13978 Jan 01 04:04	21° © 16'15	4.25681 AU
max. Earth dist.	13972 Jan 15 04:45	4° ≈ 19'32	6.18342 AU	direct	13978 Mar 01 22:39	16° © 29'16	
morning rise	13972 Jan 26 08:35	6° ≈ 51'33			13978 Jun 13 11:00	0 \circ Ω	
	13972 Mar 04 03:40	15° ≈		evening set	13978 Jul 05 14:21	4°Ω57'51	
retrograde	13972 May 31 00:18	25°≈17'29	105150 177	max. Earth dist.	13978 Jul 16 07:44	7° Ω 26'19	6.16900 AU
min. Earth dist.	13972 Jul 28 22:45	20°≈26'13	4.27153 AU		12050 1 10 11 12	70 O 7 (10 (002.452
opposition	13972 Jul 30 07:01	20°≈15′28	0°51'51	conjunction	13978 Jul 18 11:43	7°Ω56'26	
direct	13972 Sep 28 11:32 13973 Jan 17 05:57	15°≈15'56 0°) €		minimum elong	13978 Jul 18 11:43	7° Ω 56'26 10° Ω 55'19	0°35'48
evening set	13973 Jan 17 03.37 13973 Feb 01 05:24	3° ∺ 14'00		morning rise	13978 Jul 31 08:56 13978 Aug 18 08:04	10 δι 33 19	
evening set	139/31 CO 01 03.24	3 / (1400		retrograde	13978 Aug 18 08:04 13978 Dec 05 09:55	29° Ω 54'41	
conjunction	13973 Feb 14 14:10	6° ₩ 09'54	0°33'06	opposition	13979 Feb 03 11:15	24°Ω59'33	-0°52'03
minimum elong	13973 Feb 14 14:11	6° ₩ 09'55	0°33'38	min. Earth dist.	13979 Feb 04 18:50		4.08131 AU
max. Earth dist.	13973 Feb 16 04:13	6° ¥ 30'49	6.35363 AU	direct	13979 Apr 04 14:56	20° Ω 01'42	1.00151710
morning rise	13973 Feb 27 22:00	9° ₩ 05'08	0.55505110		13979 Jun 28 04:31	0° my	
retrograde	13973 Jun 30 20:36	26° ¥ 27'19		evening set	13979 Aug 09 02:50	9° m) 26'27	
opposition	13973 Aug 30 14:36	21° \(\) 28'05	0°41'54	max. Earth dist.	13979 Aug 20 19:05	12° m) 14'15	6.00377 AU
min. Earth dist.	13973 Aug 29 22:13	21° ¥ 33′26	4.42158 AU		Č	•	
direct	13973 Oct 30 23:07	16° ¥ 27'44		conjunction	13979 Aug 22 04:03	12° m 34'03	-0°31'22
	13974 Feb 15 00:26	0° Υ		minimum elong	13979 Aug 22 04:04	12° m 34'03	0°31'47
evening set	13974 Mar 05 00:33	3° Y 46'31		morning rise	13979 Sep 04 06:24	15° m 42'31	
					13979 Nov 10 04:43	0∘ ত	
conjunction	13974 Mar 18 05:02	6° Ƴ 36'04	0°22'28	retrograde	13980 Jan 12 06:53	5° ≏ 53'42	
minimum elong	13974 Mar 18 05:03	6° Ƴ 36'04	0°22'27	opposition	13980 Mar 11 19:44	0° ჲ 56'21	
max. Earth dist.	13974 Mar 18 13:35	6° Y 40'39	6.47300 AU	min. Earth dist.	13980 Mar 12 05:49	0° ჲ 52'59	3.94220 AU
morning rise	13974 Mar 31 08:15	9° Y 24'49			13980 Mar 18 22:05	30°₽, Т р	
retrograde	13974 Jul 30 14:00	26° Y ′08'47	0001150	direct	13980 May 09 16:01	26° Mp 00'23	
opposition	13974 Sep 29 15:18	21° Y 12'20	0°21'19		13980 Jun 28 20:43	0∘ ⊽	

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evening set	13980 Sep 13 22:45	16° ≏ 07'44		conjunction	13986 Mar 22 11:25	10° Ƴ 51'51	0°20'28
				minimum elong	13986 Mar 22 11:26	10° Y 51'51	0°20'22
conjunction	13980 Sep 27 05:43	19° ≏ 22'44	-0°15'42	max. Earth dist.	13986 Mar 22 17:56	10° Y ′55′20	6.47974 AU
minimum elong	13980 Sep 27 05:44	19° ≏ 22'45	0°15'26	morning rise	13986 Apr 04 13:55	13° Y '40'07	
behind sun begin	13980 Sep 27 03:20	19° ≏ 21'17			13986 Jul 19 06:10	9° 8	
behind sun end	13980 Sep 27 08:07	19° ≏ 24'12		retrograde	13986 Aug 03 16:18	0° 8 22'04	
max. Earth dist.	13980 Sep 27 08:27	19° ≏ 24'24	5.90497 AU		13986 Aug 19 01:14	30° ₹Ƴ	
morning rise	13980 Oct 10 14:30	22° ჲ 38′50		opposition	13986 Oct 03 18:50	25° Y 25'52	
	13980 Nov 10 19:32	0°M₊		min. Earth dist.	13986 Oct 04 00:10	25° Y ′24′08	4.50582 AU
retrograde	13981 Feb 19 06:17	13° ™ 29'45		direct	13986 Dec 05 01:02	20° Y 25′09	
opposition	13981 Apr 19 11:43	8°M29′25			13987 Mar 02 19:45	0°8	
min. Earth dist.	13981 Apr 18 21:05	8°M34'21	3.89576 AU	evening set	13987 Apr 08 16:37	7° 8 27'05	
direct	13981 Jun 16 14:30	3°M34'11					
asc. node	13981 Jul 04 15:07	4°M07'42		conjunction	13987 Apr 21 16:44	10° 8 13'31	
	13981 Sep 14 04:57	15°M		minimum elong	13987 Apr 21 16:45	10° 8 13'31	0°03'06
evening set	13981 Oct 22 03:25	23°M48'24		behind sun begin	13987 Apr 21 08:46	10° 8 09'17	
	12001 N 04 15 25	270 M 05110	0007142	behind sun end	13987 Apr 22 00:44	10°801′46	6 50001 ATT
conjunction	13981 Nov 04 15:25 13981 Nov 04 15:25			max. Earth dist.	13987 Apr 20 18:01	10° 8 59'14	6.50981 AU
minimum elong	13981 Nov 04 15:25 13981 Nov 04 07:50	27°M05'18 27°M00'42	0°07'32	morning rise	13987 May 04 15:21 13987 May 14 04:28	15° 8	
behind sun begin behind sun end	13981 Nov 04 07.30 13981 Nov 04 23:00	27 11600 42 27° 11600 42		desc. node	13987 May 14 04.28 13987 Jul 10 20:42	25° 8 30'59	
max. Earth dist.	13981 Nov 04 23:00 13981 Nov 06 07:06	27°IL09'34 27°IL29'27	5.91575 AU	retrograde	13987 Sep 02 12:03	29° 8 36'14	
max. Earm dist.	13981 Nov 16 15:02	27 1162927 0° x 7	3.91373 AU	opposition	13987 Sep 02 12.03 13987 Nov 02 15:59	24° 8 41'51	0°08'01
morning rise	13981 Nov 18 05:04	0° ∡ ¹22'59		min. Earth dist.	13987 Nov 02 15:39 13987 Nov 03 16:03	24° 8 34'09	4.49177 AU
retrograde	13982 Mar 29 05:05	20° × 57'35		direct	13988 Jan 04 04:54	19° 8 41'04	4.47177 AO
min. Earth dist.	13982 May 26 03:17	16° х 06'09	3.96307 AU	uncet	13988 Apr 04 10:58	0°П	
opposition	13982 May 27 12:48	15° × 54'48	0°26'36	evening set	13988 May 07 19:38	6°П52'46	
direct	13982 Jul 24 18:16	10° ₹ 58'31	0 2030	max. Earth dist.	13988 May 18 20:52		6.45205 AU
	13982 Nov 26 04:19	0°ਰ					
evening set	13982 Nov 29 00:09	0° る 39'48		conjunction	13988 May 20 17:04	9° ∏ 40'12	-0°14'13
C				minimum elong	13988 May 20 17:04	9° Ⅱ 40′12	0°15'10
conjunction	13982 Dec 12 13:39	3° る 51′53	0°25'53	behind sun begin	13988 May 20 14:19	9°Ⅱ38'43	
minimum elong	13982 Dec 12 13:38	3° る 51′52	0°26'57	behind sun end	13988 May 20 19:49	9° Ⅱ 41'41	
max. Earth dist.	13982 Dec 14 23:32	4° ප 26'04	6.03153 AU	morning rise	13988 Jun 02 12:55	12° Ⅱ 27'07	
morning rise	13982 Dec 26 04:24	7° る 04'13		retrograde	13988 Oct 02 10:52	29° Ⅱ 29'34	
retrograde	13983 May 03 14:28	26° පි 37'01		opposition	13988 Dec 02 11:36	24° Ⅱ 35'53	-0°32'33
min. Earth dist.	13983 Jun 30 18:45	21° る 46'46	4.11387 AU	min. Earth dist.	13988 Dec 03 23:23	24° Ⅱ 24'25	4.39361 AU
opposition	13983 Jul 02 09:34	21° る 33'40		direct	13989 Feb 02 15:29	19° Ⅱ 35′26	
direct	13983 Aug 30 11:53	16° る 35'29			13989 May 04 02:18	0	
	13983 Dec 10 17:31	0° ≈		evening set	13989 Jun 07 16:34	7° 5 20'06	
evening set	13984 Jan 04 00:37	5° ≈ 22'09		max. Earth dist.	13989 Jun 18 05:35	9° 5 641'10	6.31962 AU
conjunction	13984 Jan 17 12:30	8°≈25'43		conjunction	13989 Jun 20 12:48	10°5012'06	
minimum elong	13984 Jan 17 12:30	8°≈25'43		minimum elong	13989 Jun 20 12:47	10°5512'06	0°29'42
max. Earth dist.	13984 Jan 19 19:23	8°≈56'52	6.20296 AU	morning rise	13989 Jul 03 08:09	13° © 03'58	
morning rise	13984 Jan 31 00:19	11°≈28'55		. 1	13989 Oct 10 03:50	0° N	
ratrograda	13984 Feb 15 21:14 13984 Jun 04 08:38	15° ≈ 29° ≈ 47'01		retrograde	13989 Nov 04 15:51	1°Ω00'11 30°R©	
retrograde min. Earth dist.	13984 Jun 04 08:38 13984 Aug 02 09:40	29°≈47'01 24°≈55'22	4.28931 AU	opposition	13989 Nov 30 01:42 13990 Jan 04 05:17	26°€06'09	-0°40'16
opposition	13984 Aug 02 09:40 13984 Aug 03 15:48	24 ≈33 22 24°≈45'21	4.28931 AU 0°51'22	min. Earth dist.	13990 Jan 04 03.17 13990 Jan 05 20:58		4.23461 AU
direct	13984 Oct 03 00:03	19°≈45'43	0 01 22	direct	13990 Jan 05 20:38 13990 Mar 06 12:13	23 3 33 19 21° 5 06'43	7.23TU1 AU
311000	13984 Dec 31 00:26	0°) €		anoot	13990 May 26 07:07	0°Ω	
evening set	13985 Feb 05 16:17	7°) 39'05		evening set	13990 Jul 10 05:10	9° Ω 42'15	
e venning see	10,00 100 00 10.17	, ,(5) 00		max. Earth dist.	13990 Jul 20 23:08	12° Ω 11'50	6.14612 AU
conjunction	13985 Feb 19 00:30	10°) 34'13	0°32'08		20 25.00	. 561150	
minimum elong	13985 Feb 19 00:31	10°) (34'13	0°32'36	conjunction	13990 Jul 23 02:50	12° Ω 41'56	-0°35'08
max. Earth dist.	13985 Feb 20 10:32	10° ¥ 52'51	6.36837 AU	minimum elong	13990 Jul 23 02:51	12° Ω 41'56	0°35'58
morning rise	13985 Mar 04 07:56	13° ¥ 28'40		, and the second	13990 Aug 02 00:09	15° Ω	
-	13985 Jun 12 21:43	0 ° Υ		morning rise	13990 Aug 05 00:40	15° Ω 42′03	
retrograde	13985 Jul 05 00:05	0° Y 45'39		-	13990 Oct 14 02:12	0° m/y	
	13985 Jul 26 23:47	30° ₹ ₩		retrograde	13990 Dec 10 10:33	4° m 51'20	
opposition	13985 Sep 03 19:13	25°) (46′43	0°39'36		13991 Feb 07 22:56	30° R Ω	
min. Earth dist.	13985 Sep 03 05:04	25° ¥ 51′20	4.43260 AU	opposition	13991 Feb 08 11:23	29° Ω 55'55	
direct	13985 Nov 04 06:23	20°) (46′16		min. Earth dist.	13991 Feb 09 15:58		4.05965 AU
	13986 Jan 28 12:45	0 ° Υ		direct	13991 Apr 09 10:02	24° Ω 58'19	
evening set	13986 Mar 09 07:14	8° Y ′02'43			13991 Jun 06 02:16	0° ™	
				evening set	13991 Aug 14 01:20	14° m 29'59	

max. Earth dist.	13991 Aug 25 22:54	17° m 21'38	5.98546 AU		13996 Dec 10 04:39	0° ∀	
				evening set	13997 Feb 10 04:57	12°) €08'23	
conjunction	13991 Aug 27 03:18	17° Tp 38'45					
minimum elong	13991 Aug 27 03:18	17° m/38'46	0°30'11	conjunction	13997 Feb 23 12:38	15° ¥ 02'26	
morning rise	13991 Sep 09 06:24	20° m/48'26		minimum elong	13997 Feb 23 12:38	15°) €02'27	0°31'20
	13991 Oct 19 11:23	0° <u>Ω</u>		max. Earth dist.	13997 Feb 24 19:37	15°) 19'21	6.38931 AU
retrograde	13992 Jan 17 15:49	11° Ω 07'41	0022150	morning rise	13997 Mar 08 19:16	17° ¥ 55'45 0° Ƴ	
opposition min. Earth dist.	13992 Mar 17 02:14 13992 Mar 17 10:00	6° £ 09'57 6° £ 07'22	3.92911 AU	retrograde	13997 May 10 05:29 13997 Jul 09 04:28	5° Υ 05'37	
direct		0 <u>≈</u> 07 22 1° <u>Ω</u> 14'10	3.92911 AU	•	13997 Jul 09 04.28 13997 Sep 08 00:47	0° Υ 07'07	0°37'03
evening set	13992 May 14 20:15 13992 Sep 19 03:41	21° £ 25'12		opposition min. Earth dist.	13997 Sep 08 00.47 13997 Sep 07 13:24	0° Υ 10'49	4.44985 AU
evening set	13992 Sep 19 03.41	21 = 23 12		iiiii. Eartii dist.	13997 Sep 07 13:24 13997 Sep 08 22:37	30° ₹	4.44965 AU
conjunction	13992 Oct 02 11:35	24° ≏ 40'56	-0°12'47	direct	13997 Nov 08 16:22	25°\06'38	
minimum elong	13992 Oct 02 11:35	24° Ω 40'57		anoct	13998 Jan 07 09:39	0°Υ	
behind sun begin	13992 Oct 02 06:10	24° Ω 37'38	0 1227	evening set	13998 Mar 13 13:51	12° Υ 18'46	
behind sun end	13992 Oct 02 17:01	24° Ω 44'15		evening sec	15,50 1.141 15 15.51	12 10 10	
max. Earth dist.	13992 Oct 02 19:54	24° Ω 46'02	5.89859 AU	conjunction	13998 Mar 26 17:16	15° Y ′07'10	0°18'22
morning rise	13992 Oct 15 21:11	27° Ω 57'44		minimum elong	13998 Mar 26 17:17	15° Y ′07'10	0°18'12
S	13992 Oct 24 07:12	0° M		max. Earth dist.	13998 Mar 26 19:03	15° Y ′08′07	6.49201 AU
	13993 Jan 05 22:47	15°M		morning rise	13998 Apr 08 19:15	17° Ƴ 54'45	
retrograde	13993 Feb 24 14:42	18°M50'20			13998 Jun 11 23:17	0°8	
	13993 Apr 16 01:12	15°RM		retrograde	13998 Aug 07 17:55	4° 8 33'13	
opposition	13993 Apr 24 19:23	13°M49'40	-0°01'49		13998 Oct 04 22:48	30° ŖƳ	
min. Earth dist.	13993 Apr 24 01:32	13°M55'42	3.89708 AU	opposition	13998 Oct 07 21:28	29° Y 37'16	0°14'30
asc. node	13993 May 15 01:51	11°M14'02		min. Earth dist.	13998 Oct 08 05:32	29° Y '34'40	4.51248 AU
direct	13993 Jun 21 20:20	8°M54'27		direct	13998 Dec 09 05:49	24° Y 36'30	
	13993 Aug 23 14:02	15°M			13999 Feb 10 17:23	9° 8	
evening set	13993 Oct 27 10:26	29°M07'02		evening set	13999 Apr 12 19:50	11° 8 37'16	
	13993 Oct 31 02:01	0° ∡					
				conjunction	13999 Apr 25 19:37	14° 8 23'29	0°01'12
conjunction	13993 Nov 09 22:44	2° ₹ 23'42	0°09'46	minimum elong	13999 Apr 25 19:38	14° 8 23'30	0°00'32
minimum elong	13993 Nov 09 22:44	2° ₹ 23'42	0°10'40	behind sun begin	13999 Apr 25 11:37	14° 8 19'14	
behind sun begin	13993 Nov 09 16:18	2° х 19'49		behind sun end	13999 Apr 26 03:38	14° 8 27'45	6 51001 LYX
behind sun end	13993 Nov 10 05:10	2° 🗷 27'35	5 00420 ATT	max. Earth dist.	13999 Apr 24 18:36		6.51031 AU
max. Earth dist.	13993 Nov 11 16:48	2° х 49'14 5° х 41'11	5.92438 AU	marning rica	13999 Apr 28 15:52	15° と 17° と 08'58	
morning rise retrograde	13993 Nov 23 13:00 13994 Apr 03 06:24	26° \$\frac{7}{10} \display 10		morning rise desc. node	13999 May 08 17:32 13999 May 22 08:34	20° 8 00'40	
min. Earth dist.	13994 Apr 03 00:24 13994 May 31 04:12	20 x 10 10 21° x 19'20	3.97800 AU	desc. Hode	13999 May 22 08:34 13999 Jul 17 05:12	20 3 00 40	
opposition	13994 Jun 01 15:44	21° x 1920 21° x 07'17	0°30'32	retrograde	13999 Sep 06 14:06	3° Ⅱ 46'37	
direct	13994 Jul 29 22:42	16° ₹ 10'46	0 30 32	retrograde	13999 Oct 28 21:37	30°R と	
ancer	13994 Nov 08 22:24	0°る		opposition	13999 Nov 06 19:03	28° 8 52'22	-0°11'32
evening set	13994 Dec 04 03:32	5° 石 46'13		min. Earth dist.	13999 Nov 07 20:46	28° 8 44'09	4.48599 AU
				direct	14000 Jan 08 07:38	23° 8 51'36	
conjunction	13994 Dec 17 17:06	8° る 57'23	0°27'50		14000 Mar 16 05:50	0°II	
minimum elong	13994 Dec 17 17:05	8° る 57'22	0°28'54	evening set	14000 May 11 23:01	11° Ⅱ 05'36	
max. Earth dist.	13994 Dec 20 04:19	9° ප 32'12	6.05144 AU	max. Earth dist.	14000 May 22 20:30	13° Ⅱ 27′28	6.44009 AU
morning rise	13994 Dec 31 07:32	12° る 08'39					
	13995 Apr 07 08:51	0°≈		conjunction	14000 May 24 20:00	13° Ⅱ 53'20	
retrograde	13995 May 08 08:57	1° ≈ 31'58		minimum elong	14000 May 24 19:59	13° Ⅱ 53'20	0°17'25
	13995 Jun 08 04:08	30°Ŗる		morning rise	14000 Jun 06 15:43	16° Ⅱ 40'37	
min. Earth dist.	13995 Jul 05 14:48	26° る 41'32	4.13664 AU		14000 Aug 16 11:27	0 \circ	
opposition	13995 Jul 07 04:39	26° る 28'48	0°49'24	retrograde	14000 Oct 06 20:28	3° 5 48'14	
direct	13995 Sep 04 11:13	21° る 30'27			14000 Nov 28 05:03	30°R∏	
	13995 Nov 21 16:54	0° ≈		opposition	14000 Dec 06 19:11	28° ∏ 54'32	
evening set	13996 Jan 08 21:03	10° ≈ 09'45		min. Earth dist.	14000 Dec 08 09:24		4.37584 AU
	12006 1 22 00 20	120 12106	000 510 6	direct	14001 Feb 06 22:14	23° Ⅱ 54'05	
conjunction	13996 Jan 22 08:30	13°≈12'06	0°35'06		14001 Apr 14 14:13	0°©	
minimum elong	13996 Jan 22 08:30	13°≈12'06	0°35'56	evening set	14001 Jun 11 23:32	11°544'32	6 20720 ATT
max. Earth dist.	13996 Jan 24 14:09	13°≈42'23	6.22680 AU	max. Earth dist.	14001 Jun 22 10:57	14° © 05'25	6.29720 AU
morning rise	13996 Jan 30 07:53 13996 Feb 04 19:50	15° ≈ 16° ≈ 14'04		conjunction	14001 Jun 24 19:52	14° © 37'26	0.30,04
morning rise	13996 Feb 04 19:50 13996 Apr 15 04:11	16°≈14'04 0°) {		minimum elong	14001 Jun 24 19:52 14001 Jun 24 19:51	14°937'26	
retrograde	13996 Apr 13 04.11 13996 Jun 08 16:49	4°) 22'36		morning rise	14001 Jul 24 19.31 14001 Jul 07 15:23	14 937 26 17°930'17	0 5101
renograde	13996 Aug 03 05:49	4 /(22 30 30°R≈		morning rise	14001 Jul 07 15:25 14001 Sep 07 16:15	0°Ω	
min. Earth dist.	13996 Aug 05 03:49 13996 Aug 06 21:34	29°≈30'59	4.31245 AU	retrograde	14001 Sep 07 10:13	5° Ω 35'48	
opposition	13996 Aug 08 02:55	29° ≈ 21'15	0°50'31	opposition	14002 Jan 08 20:13	0° Ω 41'36	-0°50'30
direct	13996 Oct 07 14:26	24°≈21'31	· · · · · ·	min. Earth dist.	14002 Jan 10 10:53		4.20898 AU

	14002 Jan 14 05:01	30° ℝ ∽			14007 Mar 07 03:23	0° ≈	
direct	14002 Mar 10 22:08	25°5642'19		retrograde	14007 May 13 01:42	6° ≈ 29'17	
	14002 May 03 22:32	$0^{\circ}\Omega$		min. Earth dist.	14007 Jul 10 10:04	1° ≈ 39'06	4.16257 AU
evening set	14002 Jul 14 19:36	14° £ 26′22		opposition	14007 Jul 12 00:33	1° ≈ 26′11	0°50'34
	14002 Jul 17 05:30	15° Ω			14007 Jul 22 21:21	30°Ŗる	
max. Earth dist.	14002 Jul 25 16:02	16° Ω 58'18	6.11932 AU	direct	14007 Sep 09 10:17	26° る 27'32	
					14007 Oct 27 21:00	0° ≈	
conjunction	14002 Jul 27 17:43	17° Ω 27'24	-0°35'08	evening set	14008 Jan 13 17:50	14° ≈ 58′11	
minimum elong	14002 Jul 27 17:43	17° Ω 27'24	0°35'55		14008 Jan 13 21:07	15° ≈	
morning rise	14002 Aug 09 16:07	20° Ω 28'56					
	14002 Sep 21 19:16	0° m)		conjunction	14008 Jan 27 04:43	17° ≈ 59′09	0°35'07
retrograde	14002 Dec 15 14:46	9° m 49'52		minimum elong	14008 Jan 27 04:43	17° ≈ 59'10	0°35'55
opposition	14003 Feb 13 11:53	4° m) 54'11	-0°49'56	max. Earth dist.	14008 Jan 29 07:20	18° ≈ 27'34	6.25334 AU
min. Earth dist.	14003 Feb 14 15:24	4° m 45'08	4.03383 AU	morning rise	14008 Feb 09 15:25	20° ≈ 59'41	
	14003 Apr 08 14:10	30° Ŗ €			14008 Mar 23 13:46	0° ∀	
direct	14003 Apr 14 07:00	29° Ω 56'46		retrograde	14008 Jun 13 03:10	8° ¥ 57'53	
	14003 Apr 19 23:22	0° m)		min. Earth dist.	14008 Aug 11 11:59	4° ₩ 05'37	4.33711 AU
evening set	14003 Aug 19 00:55	19° m 37'06		opposition	14008 Aug 12 14:25	3° ¥ 56'53	0°49'19
max. Earth dist.	14003 Aug 31 03:29	22° m/32'35	5.96319 AU		14008 Sep 16 08:11	30° R ≈	
				direct	14008 Oct 12 07:43	28° ≈ 56'56	
conjunction	14003 Sep 01 03:50	22° m 47'20	-0°28'06		14008 Nov 07 12:00	0°) €	
minimum elong	14003 Sep 01 03:51	22° Mp 47'20	0°28'21	evening set	14009 Feb 14 17:28	16°) 36′50	
morning rise	14003 Sep 14 07:56	25° m 58'31					
-	14003 Oct 01 06:35	0∘ ⊽		conjunction	14009 Feb 28 00:32	19° ∺ 29'49	0°29'35
retrograde	14004 Jan 23 02:01	16° ≏ 27'14		minimum elong	14009 Feb 28 00:33	19° ∺ 29'49	0°29'52
opposition	14004 Mar 22 10:32	11° ≏ 29'08	-0°30'03	max. Earth dist.	14009 Mar 01 04:16	19° ¥ 44'52	6.41015 AU
min. Earth dist.	14004 Mar 22 14:23	11° ≏ 27'51	3.91307 AU	morning rise	14009 Mar 13 06:28	22° 升 22'02	
direct	14004 May 19 23:11	6° ₽ 33'33		Ü	14009 Apr 19 10:31	0° Y	
evening set	14004 Sep 24 11:14	26° ≏ 49'24		retrograde	14009 Jul 13 07:20	9° Y 25'00	
Č	1			opposition	14009 Sep 12 06:18	4° Y 26'51	0°34'14
conjunction	14004 Oct 07 19:50	0°ML05'55	-0°09'46	min. Earth dist.	14009 Sep 11 20:58	4° Y ′29'53	4.46561 AU
minimum elong	14004 Oct 07 19:51	0°ML05'56	0°09'21		14009 Oct 24 20:41	30°R) €	
behind sun begin	14004 Oct 07 12:53	0°M01'40		direct	14009 Nov 13 00:21	29° ¥ 26'18	
behind sun end	14004 Oct 08 02:49	0°ML10'12			14009 Dec 02 09:08	0° Y	
	14004 Oct 07 10:10	0° M		evening set	14010 Mar 17 20:40	16° Ƴ 34'47	
max. Earth dist.	14004 Oct 08 08:26	0° M ₊13'39	5.89040 AU	Ü			
morning rise	14004 Oct 21 06:31	3°M23'34		conjunction	14010 Mar 30 23:33	19° Y ′22'35	0°16'06
C	14004 Dec 11 07:07	15° M ₊		minimum elong	14010 Mar 30 23:33	19° Ƴ 22'35	0°15'52
retrograde	14005 Mar 02 00:26	24°M18'15		behind sun begin	14010 Mar 30 22:45	19° Ƴ 22'10	
asc. node	14005 Mar 27 08:14	23°M14'35		behind sun end	14010 Mar 31 00:21	19° Ƴ 23'01	
min. Earth dist.	14005 Apr 29 07:47	19° M 24'27	3.89784 AU	max. Earth dist.	14010 Mar 30 21:39	19° Ƴ 21'35	6.50168 AU
opposition	14005 Apr 30 05:29	19° M 17'07	0°03'04	morning rise	14010 Apr 13 00:47	22° Y ′09'33	
rr	14005 Jun 07 23:43	15°RM		3	14010 May 21 23:13	0°8	
direct	14005 Jun 27 05:49	14° M 21'45		retrograde	14010 Aug 11 21:06	8° 8 45'34	
	14005 Jul 16 12:52	15° M ₊		opposition	14010 Oct 12 01:13	3° 8 49'59	0°10'53
	14005 Oct 13 16:39	0° ∡ ¹		min. Earth dist.	14010 Oct 12 12:27	3° 8 46'23	4.51551 AU
evening set	14005 Nov 01 20:16	4° ∡ ³32'38			14010 Nov 15 05:46	30° R Υ	
<i>3</i>				direct	14010 Dec 13 12:01	28° Ƴ 49'14	
conjunction	14005 Nov 15 09:10	7° ∡ ¹49'04	0°12'46		14011 Jan 10 22:20	0°8	
minimum elong	14005 Nov 15 09:09	7° ∡ ¹49'04	0°13'42	desc. node	14011 Mar 29 05:40	11° 8 55'14	
behind sun begin	14005 Nov 15 04:43	7° ∡ ¹46'23			14011 Apr 13 01:54	15° 8	
behind sun end	14005 Nov 15 13:35	7° ∡ 751'44		evening set	14011 Apr 17 00:24	15° 8 50'01	
max. Earth dist.	14005 Nov 17 08:32	8° ∡ 17'45	5.93409 AU	Ü	1		
morning rise	14005 Nov 28 23:37	11° ∡ ¹06′09		conjunction	14011 Apr 29 23:34	18° 8 36'11	-0°01'26
	14006 Mar 09 06:31	0°ਰ		minimum elong	14011 Apr 29 23:34	18° 8 36'11	0°02'09
retrograde	14006 Apr 08 11:09	1°る28'40		behind sun begin	14011 Apr 29 15:34	18° 8 31'55	
	14006 May 08 11:13	30°R. ✓		behind sun end	14011 Apr 30 07:35	18° 8 40'27	
min. Earth dist.	14006 Jun 05 08:15	26° ∡ ³37'47	3.99528 AU	max. Earth dist.	14011 Apr 28 17:18	18° 8 19'59	6.50637 AU
opposition	14006 Jun 06 20:42	26° ₹ ¹25'25	0°34'11	morning rise	14011 May 12 21:13	21° 8 21'40	
direct	14006 Aug 04 06:37	21° × ⁷ 28'37		<i>3</i>	14011 Jun 25 00:03	0°II	
	14006 Oct 20 03:04	0°궁		retrograde	14011 Sep 10 20:53	8° I 101'37	
evening set	14006 Dec 09 08:51	10° る 56'57		opposition	14011 Nov 11 00:51	3° П 07'31	-0°15'10
	0, 00.01			min. Earth dist.	14011 Nov 12 05:14		4.47531 AU
conjunction	14006 Dec 22 22:17	14° る 06'59	0°29'34		14011 Dec 07 11:37	30°R 8	
minimum elong	14006 Dec 22 22:17	14° る 06'59	0°30'37	direct	14012 Jan 12 13:20	28° 8 06'44	
max. Earth dist.	14006 Dec 25 11:19	14° る 42'39	6.07432 AU		14012 Feb 17 16:41	0°Ⅱ	
morning rise	14007 Jan 05 12:29	17°る17'03		evening set	14012 May 16 05:01	15° Ⅱ 24'35	
-0				-0	, 00.01		

max. Earth dist.	14012 May 27 00:54	17° Ⅱ 46′05	6.42335 AU	morning rise	14017 Dec 04 09:56	16° ∡ ′30′18	
					14018 Feb 04 20:43	0°ರ	
conjunction	14012 May 29 01:57	18° Ⅱ 12'53	-0°18'42	retrograde	14018 Apr 13 11:24	6° る 43'22	
minimum elong	14012 May 29 01:56	18° Ⅱ 12'53	0°19'42	min. Earth dist.	14018 Jun 10 09:09	1° る 53'05	4.01874 AU
morning rise	14012 Jun 10 21:21	21° Ⅱ 00'43		opposition	14018 Jun 11 23:50	1° る 39'59	0°37'32
	14012 Jul 24 19:26	0 \circ \odot			14018 Jun 24 13:35	30°₽ ⋌ ¹	
retrograde	14012 Oct 11 07:55	8°9315'08		direct	14018 Aug 09 11:44	26° ∡ ¹42'57	
opposition	14012 Dec 11 06:26	3° 5 21'28	-0°38'11		14018 Sep 24 04:12	0°రె	
min. Earth dist.	14012 Dec 12 21:10	3°509'02	4.35403 AU	evening set	14018 Dec 14 11:46	16° පි 02'16	
	14013 Jan 08 23:43	30°R Ⅱ		Č			
direct	14013 Feb 11 05:54	28° Ⅲ 21'10		conjunction	14018 Dec 28 00:48	19° る 10'52	0°31'03
	14013 Mar 16 12:02	0°©		minimum elong	14018 Dec 28 00:47	19°る10'52	0°32'04
evening set	14013 Jun 16 10:54	16° © 18'49		max. Earth dist.	14018 Dec 30 12:36	19° ठ 45'36	6.10175 AU
max. Earth dist.	14013 Jun 26 21:50	18°9540'17	6.27181 AU	morning rise	14019 Jan 10 14:37	22°る19'28	0.10170110
man. Darun dige.	1.015 0411 20 21.00	10 2 10 17	0.27101110	morning rise	14019 Feb 14 08:51	0°≈	
conjunction	14013 Jun 29 07:14	19° © 12'46	-0°31'23	retrograde	14019 May 17 16:53	11° ≈ 19'40	
minimum elong	14013 Jun 29 07:13	19°9512'46		min. Earth dist.	14019 Jul 15 04:53	6°≈29'00	4.19108 AU
morning rise	14013 Jul 12 03:04	22°906'45	0 32 23	opposition	14019 Jul 16 17:27	6°≈16'44	0°51'21
morning risc	14013 Aug 17 16:46	0°Ω		direct	14019 Sep 14 09:15	1°≈17'50	0 3121
retrograde	14013 Nov 14 06:46	10°Ω22'52		direct	14019 Dec 28 02:15	1 ∞1730 15°≈	
•		5°Ω28'33	0951120	avanina aat		13 ≈ 19° ≈ 39'25	
opposition min. Earth dist.	14014 Jan 13 16:28	5° Ω 15'58		evening set	14020 Jan 18 11:19	19 ≈39 23	
	14014 Jan 15 07:13	0° Ω 29'29	4.18160 AU		14020 I 21 21.46	22920102	0924155
direct	14014 Mar 15 15:18			conjunction	14020 Jan 31 21:46	22°≈39'03	0°34'55
	14014 Jun 30 12:25	15° Ω		minimum elong	14020 Jan 31 21:46	22°≈39'03	0°35'39
evening set	14014 Jul 19 14:50	19° Ω 22'35	C 000 41 4 XX	max. Earth dist.	14020 Feb 02 22:50	23°≈06'25	6.28057 AU
max. Earth dist.	14014 Jul 30 14:18	21° 31 57'12	6.09241 AU	morning rise	14020 Feb 14 07:41	25°≈38'07	
		0			14020 Mar 05 10:53	0° ∀	
conjunction	14014 Aug 01 13:37	22° Ω 25'04		retrograde	14020 Jun 17 08:40	13° ¥ 26′14	
minimum elong	14014 Aug 01 13:37	22° Ω 25'04	0°35'37	opposition	14020 Aug 16 22:35	8° ¥ 25'38	0°47'51
morning rise	14014 Aug 14 12:41	25° Ω 28'06		min. Earth dist.	14020 Aug 15 21:43	8° ¥ 33'50	4.36099 AU
	14014 Sep 03 04:38	0° m)		direct	14020 Oct 16 19:11	3° ¥ 25'34	
retrograde	14014 Dec 20 22:41	15° m 00'43		evening set	14021 Feb 19 02:59	20° ¥ 59'07	
opposition	14015 Feb 18 17:38	10° m 04'51					
min. Earth dist.	14015 Feb 19 17:55	9° m 56'51	4.01003 AU	conjunction	14021 Mar 04 09:20	23° 米 51′05	0°28'03
direct	14015 Apr 19 06:45	5° m 07'49		minimum elong	14021 Mar 04 09:21	23° 米 51′06	0°28'17
evening set	14015 Aug 24 05:30	24° m 55'58		max. Earth dist.	14021 Mar 05 07:37	24° ₭ 03'08	6.42894 AU
				morning rise	14021 Mar 17 14:38	26°) 42′19	
conjunction	14015 Sep 06 09:06	28° Mp 07'26	-0°26'04		14021 Apr 02 04:13	0 ° Υ	
minimum elong	14015 Sep 06 09:07	28° Mp 07'26		retrograde	14021 Jul 17 10:50	13° Ƴ 39'28	
max. Earth dist.	14015 Sep 05 13:02	27° m 55'14	5.94494 AU	opposition	14021 Sep 16 09:51	8° Y 41'44	0°31'18
	14015 Sep 14 02:16	0∘ ⊽		min. Earth dist.	14021 Sep 16 04:31	8° Ƴ 43′28	4.47823 AU
morning rise	14015 Sep 19 14:17	1° ≏ 19'57		direct	14021 Nov 17 07:59	3° Ƴ 41′06	
retrograde	14016 Jan 28 14:23	21° ≏ 56'21		evening set	14022 Mar 22 01:17	20° Ƴ 46'57	
opposition	14016 Mar 27 22:30	16° ≏ 57'52	-0°25'49				
min. Earth dist.	14016 Mar 27 22:03	16° ≙ 58′01	3.90267 AU	conjunction	14022 Apr 04 03:40	23° Y 34'21	0°13'48
direct	14016 May 25 08:21	12° ≏ 02'29		minimum elong	14022 Apr 04 03:40	23° Y 34'21	0°13'29
	14016 Sep 20 05:33	0° M.		behind sun begin	14022 Apr 03 23:13	23° Y 31'59	
evening set	14016 Sep 29 21:47	2°M20'43		behind sun end	14022 Apr 04 08:07	23° Y 36'43	
				max. Earth dist.	14022 Apr 03 21:05	23° Y 30'51	6.50723 AU
conjunction	14016 Oct 13 07:19	5° ™ 37'44	-0°06'35	morning rise	14022 Apr 17 04:22	26° Ƴ 20'54	
minimum elong	14016 Oct 13 07:19	5° M ₃37'44	0°06'03		14022 May 04 16:37	9° 8	
behind sun begin	14016 Oct 12 23:24	5°M32'53		retrograde	14022 Aug 15 22:47	12° 8 55'55	
behind sun end	14016 Oct 13 15:14	5°M42'34		opposition	14022 Oct 16 03:49	8° 8 00'34	0°07'17
max. Earth dist.	14016 Oct 14 03:18	5°M50'00	5.88933 AU	min. Earth dist.	14022 Oct 16 17:18	7° 8 56'14	4.51398 AU
morning rise	14016 Oct 26 18:35	8°M55'43		direct	14022 Dec 17 14:37	2° 8 59'45	
Ü	14016 Nov 21 07:22	15° ™		desc. node	14023 Feb 03 03:37	6° 8 09'00	
asc. node	14017 Feb 05 17:39	28°M22'25			14023 Mar 27 21:11	15° 8	
retrograde	14017 Mar 07 12:31	29°M49'07		evening set	14023 Apr 21 04:12	20° 8 01'58	
opposition	14017 May 05 16:34	24°M47'37	0°08'01	max. Earth dist.	14023 May 02 18:26	22° 8 30'47	6.49788 AU
min. Earth dist.	14017 May 04 16:16	24°M55'51	3.90637 AU		, .2 10.20	J=0 ./	
direct	14017 Jul 02 17:39	19°M52'11	2.5.2007.210	conjunction	14023 May 04 03:07	22° 8 48'19	-0°03'58
	14017 Sep 24 11:02	0° √		minimum elong	14023 May 04 03:06	22° 8 48'19	0°04'44
evening set	14017 Nov 07 06:07	9° ∡ 758'16		behind sun begin	14023 May 03 19:17	22° 8 44'09	2 0111
January 301	1101/110/0/0/00.0/	, A 30 10		behind sun end	14023 May 04 10:54	22° 8 52'29	
conjunction	14017 Nov 20 19:14	13° ∡ 14'00	0°15'41	morning rise	14023 May 17 00:14	25° 8 33'58	
minimum elong	14017 Nov 20 19:14 14017 Nov 20 19:13	13° x *14'00 13° x *13'59	0°15'41 0°16'40	morning 1150	14023 Jun 07 05:29	25 O 35 38	
max. Earth dist.	14017 Nov 20 19:13 14017 Nov 22 22:40	13° x '13'39'		retrograde	14023 Juli 07 03:29 14023 Sep 15 03:04	0 Ⅱ 12°Ⅱ17'35	
man. Latin Ulst.	1701/110V 22 22.40	10 7 77 37	5.75100 AU	renograde	17025 Sep 15 05.04	12 11 13	

opposition	14023 Nov 15 06:45	7° ∏ 23'38	-0°18'43		14029 Sep 01 00:33	0° ∡ ¹	
min. Earth dist.	14023 Nov 16 13:24	7° Ⅱ 13'50	4.46044 AU	evening set	14029 Nov 12 13:10	15° ∡ 15'12	
direct	14024 Jan 16 18:18	2° Ⅱ 22'53		_			
evening set	14024 May 20 11:44	19° Ⅱ 45'50		conjunction	14029 Nov 26 02:22	18° ∡ ³30′06	0°18'25
max. Earth dist.	14024 May 31 04:07	22° Ⅱ 06′07	6.40303 AU	minimum elong	14029 Nov 26 02:22	18° ∡ ³30′05	0°19'26
				max. Earth dist.	14029 Nov 28 07:13	19° ∡ *01'48	5.96968 AU
conjunction	14024 Jun 02 08:22	22° ∐ 34'49		morning rise	14029 Dec 09 17:10	21° ∡ ¹45'30	
minimum elong	14024 Jun 02 08:21	22° ∏ 34'49	0°21'53		14030 Jan 14 20:57	0°る	
morning rise	14024 Jun 15 03:54	25° ∏ 23'28		retrograde	14030 Apr 18 09:38	11°る49'01	4.04171 411
	14024 Jul 06 16:37 14024 Oct 15 23:13	0°ഇ 12° ഇ 45'54		min. Earth dist.	14030 Jun 15 09:12 14030 Jun 16 23:37	6°る58'34 6°る45'34	4.04171 AU 0°40'32
retrograde opposition	14024 Oct 15 23:13 14024 Dec 15 19:29	7°952'10	0°40'47	opposition direct	14030 Jun 16 25:37 14030 Aug 14 15:51	1°る43'34	0-40-32
min. Earth dist.	14024 Dec 13 19.29 14024 Dec 17 11:04	7°932'10	4.32950 AU	evening set	14030 Aug 14 13.31 14030 Dec 19 11:43	1 34814 20° る 59'19	
direct	14024 Bec 17 11:04 14025 Feb 15 16:28	2° 9 51'57	4.32930 AU	evening set	14030 DCC 19 11.43	20 03919	
evening set	14025 Jun 20 23:35	20°957'30		conjunction	14031 Jan 02 00:39	24° ろ 06'42	0°32'17
max. Earth dist.	14025 Jul 01 12:09	23°\$20'41	6.24506 AU	minimum elong	14031 Jan 02 00:39	24° පි 06'42	0°33'18
				max. Earth dist.	14031 Jan 04 13:05	24° පි 41'36	6.12700 AU
conjunction	14025 Jul 03 20:17	23° © 52'38	-0°32'30	morning rise	14031 Jan 15 13:55	27° る 13'56	
minimum elong	14025 Jul 03 20:17	23° © 52'38	0°33'31		14031 Jan 27 19:19	0° ≈	
morning rise	14025 Jul 16 16:18	26°5947'50			14031 Apr 26 12:07	15° ≈	
	14025 Jul 30 23:30	$0^{\circ}\Omega$		retrograde	14031 May 22 05:58	16° ≈ 03'24	
	14025 Nov 06 19:03	15° Ω			14031 Jun 16 19:06	15°R ≈	
retrograde	14025 Nov 19 06:43	15° Ω 14'50		min. Earth dist.	14031 Jul 19 20:17	11° ≈ 12'45	4.21620 AU
	14025 Dec 01 18:21	15°R Ω		opposition	14031 Jul 21 08:04	11° ≈ 00'48	0°51'48
opposition	14026 Jan 18 14:41	10° Ω 20′23		direct	14031 Sep 19 03:16	6° ≈ 01'44	
min. Earth dist.	14026 Jan 20 03:43	10° Ω 08′21	4.15481 AU		14031 Dec 09 18:07	15° ≈	
direct	14026 Mar 20 08:11	5° Ω 21'37		evening set	14032 Jan 23 03:08	24° ≈ 15'52	
. ,	14026 Jun 12 02:24	15° Ω		. ,.	14022 F 1 05 12 55	27014117	0024121
evening set	14026 Jul 24 12:11	24° Ω 23'19	C 0C701 ATT	conjunction	14032 Feb 05 12:55	27°≈14'17	0°34'31
max. Earth dist.	14026 Aug 04 14:41	2/36003/	6.06791 AU	minimum elong max. Earth dist.	14032 Feb 05 12:56 14032 Feb 07 09:19	27°≈14'18 27°≈38'57	0°35'10 6.30348 AU
conjunction	14026 Aug 06 11:23	27° Ω 27'05	-0°34'23	morning rise	14032 Feb 07 09:19 14032 Feb 18 22:23	0° ∺ 12'11	0.30346 AU
minimum elong	14026 Aug 06 11:23	$27^{\circ}\Omega 27'06$		morning risc	14032 Feb 18 00:15	0° X 1211	
g	14026 Aug 17 05:47	0°m	0 35 03	retrograde	14032 Jun 21 15:39	17° ¥ 52'11	
morning rise	14026 Aug 19 11:18	0° mp 31'33		min. Earth dist.	14032 Aug 20 08:42	12° ¥ 59'07	4.38010 AU
retrograde	14026 Dec 26 07:22	20° m 14'39		opposition	14032 Aug 21 06:22	12° ¥ 51'59	0°46'09
opposition	14027 Feb 24 00:38	15° m) 18'24	-0°46'07	direct	14032 Oct 21 07:09	7°) 51'49	
min. Earth dist.	14027 Feb 24 21:29	15° Mp 11'30	3.99019 AU	evening set	14033 Feb 23 12:15	25° ∺ 20'42	
direct	14027 Apr 24 09:36	10°Mp21'36					
	14027 Aug 28 08:44	0∘ ⊽		conjunction	14033 Mar 08 18:14	28° ∺ 11'56	
evening set	14027 Aug 29 10:34	0° ≏ 15'37		minimum elong	14033 Mar 08 18:14	28° ¥ 11'57	0°26'32
		_		max. Earth dist.	14033 Mar 09 13:39	28° ¥ 22'25	6.44302 AU
conjunction	14027 Sep 11 15:10	3° Ω 28'09			14033 Mar 17 02:35	0° Υ	
minimum elong	14027 Sep 11 15:11	3° £ 28′09		morning rise	14033 Mar 21 22:46	1° Υ 02'22	
max. Earth dist.	14027 Sep 11 02:06	3° £ 20'11	5.93188 AU	retrograde	14033 Jul 21 13:15	17° Υ 55'18 12° Υ 58'01	0020112
morning rise retrograde	14027 Sep 24 21:05 14028 Feb 03 03:40	6° £ 41'40 27° £ 23'05		opposition min. Earth dist.	14033 Sep 20 13:57 14033 Sep 20 10:29	12° γ 58 01 12° γ 59'08	0°28'13 4.48662 AU
opposition	14028 Apr 02 09:47	27 = 23 03 22° £ 24'09	-0°21'22	direct	14033 Sep 20 10.29 14033 Nov 21 13:04	7° Υ 57'24	4.48002 AU
min. Earth dist.	14028 Apr 02 06:13	22° ⊆ 25'21	3.89796 AU	evening set	14034 Mar 26 07:15	25° Υ '02'01	
direct	14028 May 30 17:42	17° Ω 28'53	3.03730110	evening sec	11001111111 20 07.10	20 1 02 01	
	14028 Sep 02 05:04	0°M		conjunction	14034 Apr 08 09:03	27° Ƴ 49'08	0°11'24
evening set	14028 Oct 05 06:52	7° M 47'04		minimum elong	14034 Apr 08 09:03	27° Ƴ 49'08	0°11'00
C				behind sun begin	14034 Apr 08 03:02	27° Ƴ 45'57	
conjunction	14028 Oct 18 16:56	11° M 04'10	-0°03'22	behind sun end	14034 Apr 08 15:04	27° Y ′52'20	
minimum elong	14028 Oct 18 16:57	11°ML04'10	0°02'45	max. Earth dist.	14034 Apr 07 22:02	27° Ƴ 43'16	6.50946 AU
behind sun begin	14028 Oct 18 08:37	10°M59'06			14034 Apr 18 14:28	0° 8	
behind sun end	14028 Oct 19 01:17	11°M09'15		morning rise	14034 Apr 21 09:16	0° 8 35'27	
max. Earth dist.	14028 Oct 19 17:36	11°M19'17	5.89311 AU	_	14034 Jul 12 19:11	15° 8	
morning rise	14028 Nov 01 05:00	14°M22'18		retrograde	14034 Aug 20 04:37	17° 8 10'31	
1	14028 Nov 03 19:06	15°M		*.*	14034 Sep 27 14:37	15°R 8	000212.4
asc. node	14028 Dec 17 05:46	24°M55'37		opposition	14034 Oct 20 08:28	12° 8 15'33	0°03'34
ratra ara da	14029 Jan 13 07:47	0° 🔏 5° ⋅₹ 12'16		min. Earth dist.	14034 Oct 21 01:21	12° 8 10'08	4.51007 AU
retrograde min. Earth dist.	14029 Mar 12 18:51 14029 May 09 20:42	5° ₹ 12'16 0° ₹ 19'50	3.91830 AU	desc. node direct	14034 Dec 11 18:58 14034 Dec 21 20:44	7° 8 23'57 7° 8 14'47	
opposition	14029 May 11 00:37	0° x · 19 30 0° x · 10'23	0°12'47	uncci	14034 Dec 21 20.44 14035 Mar 09 12:04	15° 8	
оррозиюн	14029 May 11 00:37	30°RM	V 127/	evening set	14035 Apr 25 09:50	24° 8 19'06	
direct	14029 Jul 08 01:05	25°M14'48		max. Earth dist.	14035 Apr 25 07:50 14035 May 06 20:00	26° 8 46'07	6.48820 AU
						007	

conjunction	14035 May 08 08:21	27° 8 05'40	-0°06'31	max. Earth dist.	14040 Oct 25 00:50	16°M33'04	5.90072 AU
minimum elong	14035 May 08 08:20	27° 8 05'40	0°07'20	asc. node	14040 Oct 28 13:39	17° M 24'57	
behind sun begin	14035 May 08 01:00	27° 8 01'45		morning rise	14040 Nov 06 09:09	19°M33'46	
behind sun end	14035 May 08 15:39	27° 8 09'35			14040 Dec 21 23:27	0° ∡ ¹	
morning rise	14035 May 21 05:15	29° 8 51'36		retrograde	14041 Mar 17 18:49	10° ∡ 19′05	
	14035 May 21 20:58	Π °0		min. Earth dist.	14041 May 14 20:45	5° ≯ 26′38	3.93161 AU
retrograde	14035 Sep 19 11:58	16° Ⅱ 39'23		opposition	14041 May 16 01:33	5° ∡ 16'52	0°17'10
opposition	14035 Nov 19 15:09	11° Ⅱ 45'34		direct	14041 Jul 13 04:18	0° ≮ 21′03	
min. Earth dist.	14035 Nov 20 22:38	11° Ⅱ 35'29	4.44585 AU	evening set	14041 Nov 17 13:17	20° ∡ 15'45	
direct	14036 Jan 21 00:37	6° Ⅱ 44'57					
evening set	14036 May 24 20:18	24° Ⅱ 12'47		conjunction	14041 Dec 01 02:47	23° ∡ ¹29'53	0°20'52
max. Earth dist.	14036 Jun 04 13:14	26°∏33'55	6.38485 AU	minimum elong	14041 Dec 01 02:46	23° ₹ 29'53	0°21'55
		_		max. Earth dist.	14041 Dec 03 10:11	24° ∡ *02'58	5.98733 AU
conjunction	14036 Jun 06 16:54	27° I I02'25		morning rise	14041 Dec 14 17:29	26° ∡ ⁴44′25	
minimum elong	14036 Jun 06 16:53	27° I I02'25	0°24'00	_	14041 Dec 28 15:57	0°ਰ	
morning rise	14036 Jun 19 12:10	29° Ⅱ 51'43		retrograde	14042 Apr 23 02:25	16°る39'12	
	14036 Jun 20 03:17	0°©		min. Earth dist.	14042 Jun 20 02:29	11° る 48'49	4.06183 AU
retrograde	14036 Oct 20 15:06	17° © 21'25		opposition	14042 Jun 21 16:59	11° ට 35'49	0°43'06
opposition	14036 Dec 20 10:11	12° © 27'45		direct	14042 Aug 19 11:51	6° ට 38'14	
min. Earth dist.	14036 Dec 22 01:50	12° © 15'00	4.30914 AU	evening set	14042 Dec 24 06:03	25° る 42'33	
direct	14037 Feb 20 04:07	7° 5 27'48					
evening set	14037 Jun 25 13:32	25° © 39'40		conjunction	14043 Jan 06 18:35		0°33'17
max. Earth dist.	14037 Jul 06 02:14	28° © 03'41	6.22419 AU	minimum elong	14043 Jan 06 18:35	28° ප් 48'52	0°34'16
				max. Earth dist.	14043 Jan 09 04:07	29° පි 21'56	6.14764 AU
conjunction	14037 Jul 08 10:11	28° © 35'41			14043 Jan 11 22:26	0° ≈	
minimum elong	14037 Jul 08 10:11	28° © 35'41	0°34'27	morning rise	14043 Jan 20 07:40	1°≈55′02	
	14037 Jul 14 13:33	0 $^{\circ}\Omega$			14043 Mar 25 13:17	15° ≈	
morning rise	14037 Jul 21 06:39	1° Ω 31'54		retrograde	14043 May 26 14:12	20° ≈ 35'52	
	14037 Sep 25 20:12	15° Ω		min. Earth dist.	14043 Jul 24 08:02	15° ≈ 44'51	4.23570 AU
retrograde	14037 Nov 24 06:29	20° Ω 07'43		opposition	14043 Jul 25 18:03	15° ≈ 33'29	0°52'00
opposition	14038 Jan 23 12:55	15° Ω 13'02			14043 Jul 29 22:31	15°R ≈	
min. Earth dist.	14038 Jan 24 23:44	15°Ω01'40	4.13509 AU	direct	14043 Sep 23 16:45	10° ≈ 34'12	
	14038 Jan 25 04:52	15°R Ω			14043 Nov 17 19:58	15° ≈	
direct	14038 Mar 25 02:37	10° Ω 14'31		evening set	14044 Jan 27 15:10	28°≈42'59	
		150()				Λ∘ ₩	
	14038 May 20 14:49	15° Ω			14044 Feb 02 10:53	0° ℋ	
evening set	14038 Jul 29 08:06	29° Ω 22'04					
	14038 Jul 29 08:06 14038 Aug 01 00:23	29° Ω 22'04 0° M		conjunction	14044 Feb 10 00:43	1°) (40′34	0°33'58
evening set max. Earth dist.	14038 Jul 29 08:06	29° Ω 22'04	6.05127 AU	minimum elong	14044 Feb 10 00:43 14044 Feb 10 00:43	1°) (40'34 1°) (40'34	0°34'34
max. Earth dist.	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10	29° N 22'04 0° M 2° M 03'12		minimum elong max. Earth dist.	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04	1°) 40'34 1°) 40'34 2°) 04'01	
max. Earth dist.	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10 14038 Aug 11 07:56	29° N 22'04 0° m 2° m 03'12 2° m 26'50	-0°33'42	minimum elong max. Earth dist. morning rise	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27	1°\(\frac{4}{4}\)'34 1°\(\frac{4}{4}\)'34 2°\(\frac{4}{0}\)'01 4°\(\frac{4}{3}\)'31	0°34'34
max. Earth dist. conjunction minimum elong	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10 14038 Aug 11 07:56 14038 Aug 11 07:57	29° \Omega 22'04 0° m 2° m 03'12 2° m 26'50 2° m 26'51	-0°33'42	minimum elong max. Earth dist. morning rise retrograde	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42	1°\(\pm\)40'34 1°\(\pm\)40'34 2°\(\pm\)04'01 4°\(\pm\)37'31 22°\(\pm\)11'15	0°34'34 6.32058 AU
max. Earth dist. conjunction minimum elong morning rise	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18	29° A 22'04 0° m 2° m 03'12 2° m 26'50 2° m 26'51 5° m 32'17	-0°33'42	minimum elong max. Earth dist. morning rise retrograde opposition	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21	1°\(\pm\)40'34 1°\(\pm\)40'34 2°\(\pm\)04'01 4°\(\pm\)37'31 22°\(\pm\)11'15 17°\(\pm\)11'28	0°34'34 6.32058 AU 0°44'21
max. Earth dist. conjunction minimum elong morning rise retrograde	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18 14038 Dec 31 13:05	29° & 22'04 0° my 2° my 03'12 2° my 26'50 2° my 26'51 5° my 32'17 25° my 22'41	-0°33'42 0°34'17	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21 14044 Aug 24 15:34	1° \(\pm\)40'34 1° \(\pm\)40'34 2° \(\pm\)04'01 4° \(\pm\)37'31 22° \(\pm\)11'15 17° \(\pm\)11'28 17° \(\pm\)17'58	0°34'34 6.32058 AU
max. Earth dist. conjunction minimum elong morning rise retrograde opposition	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18 14038 Dec 31 13:05 14039 Mar 01 04:49	29° \$\mathbb{Q}\; 22'04 0° \$\mathbb{M}\; 2° \$\mathbb{M}\; 03'12 2° \$\mathbb{M}\; 26'50 2° \$\mathbb{M}\; 26'51 5° \$\mathbb{M}\; 32'17 25° \$\mathbb{M}\; 22'41 20° \$\mathbb{M}\; 26'06	-0°33'42 0°34'17 -0°43'45	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21 14044 Aug 24 15:34 14044 Oct 25 14:39	1°\(\pm\)40'34 1°\(\pm\)40'34 2°\(\pm\)40'10 4°\(\pm\)37'31 22°\(\pm\)11'15 17°\(\pm\)11'28 17°\(\pm\)17'58 12°\(\pm\)11'15	0°34'34 6.32058 AU 0°44'21
max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 09 16:10 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18 14038 Dec 31 13:05 14039 Mar 01 04:49 14039 Mar 01 23:14	29° \$\alpha 22'04 0° \$\text{m}\$ 2° \$\text{m} 03'12\$ 2° \$\text{m} 26'50\$ 2° \$\text{m} 26'51\$ 5° \$\text{m} 32'17\$ 25° \$\text{m} 22'41\$ 20° \$\text{m} 26'06\$ 20° \$\text{m} 20'01\$	-0°33'42 0°34'17	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14044 Feb 10 00:43 14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21 14044 Aug 24 15:34 14044 Oct 25 14:39 14045 Feb 27 19:40	1° \(\pm\)40'34 1° \(\pm\)40'34 2° \(\pm\)40'10 4° \(\pm\)37'31 22° \(\pm\)11'15 17° \(\pm\)11'28 17° \(\pm\)11'15 12° \(\pm\)11'15 29° \(\pm\)37'04	0°34'34 6.32058 AU 0°44'21
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max. Earth dist. conjunction minimum elong 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	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 01 00:23 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18 14038 Dec 31 13:05 14039 Mar 01 04:49 14039 Mar 01 23:14 14039 Apr 29 10:37 14039 Sep 16 17:02 14039 Sep 16 17:03 14039 Sep 16 07:25 14039 Sep 16 07:25 14039 Sep 29 23:52 14039 Dec 29 16:43 14040 Feb 08 08:01 14040 Mar 20 05:15 14040 Apr 07 14:59 14040 Apr 07 07:22 14040 Jun 04 20:53 14040 Aug 13 03:55 14040 Oct 10 10:04 14040 Oct 18 16:43	29° \$\alpha 22'04 0° \$\mathbf{m}\$ 2° \$\mathbf{m} 03'12 2° \$\mathbf{m} 26'50 2° \$\mathbf{m} 26'51 5° \$\mathbf{m} 22'41 20° \$\mathbf{m} 22'41 20° \$\mathbf{m} 22'37 0° \$\alpha\$ 5° \$\alpha 26'25 8° \$\alpha 39'30 8° \$\alpha 39'30 8° \$\alpha 39'30 8° \$\alpha 33'38 11° \$\alpha 53'40 0° \$\mathbf{m}\$ 2° \$\mathbf{m} 37'05 30° \$\alpha \alpha\$ 27° \$\alpha 37'44 27° \$\alpha 40'18 22° \$\alpha 42'28 0° \$\mathbf{m}\$ 12° \$\mathbf{m} 58'51 15° \$\mathbf{m}\$	-0°33'42 0°34'17 -0°43'45 3.97837 AU -0°21'28 0°21'25 5.92596 AU -0°16'59 3.89886 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 conjunction min. Earth dist. direct evening set	14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21 14044 Aug 24 15:34 14045 Feb 27 19:40 14045 Mar 01 14:28 14045 Mar 13 01:00 14045 Mar 13 01:00 14045 Mar 13 15:18 14045 Mar 26 05:09 14045 Jul 25 17:10 14045 Sep 24 17:11 14045 Sep 24 16:52 14045 Nov 25 18:53 14046 Mar 30 12:01 14046 Apr 12 13:29 14046 Apr 12 13:29 14046 Apr 12 06:29 14046 Apr 12 00:16	1° \(\) \(0°34'34 6.32058 AU 0°44'21 4.39373 AU 0°24'39 0°24'43 6.45229 AU 0°25'06 4.49121 AU
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max. Earth dist. conjunction minimum elong 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	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 01 00:23 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18 14038 Dec 31 13:05 14039 Mar 01 04:49 14039 Mar 01 23:14 14039 Apr 29 10:37 14039 Sep 16 17:02 14039 Sep 16 17:03 14039 Sep 16 07:25 14039 Sep 16 07:25 14039 Sep 16 07:25 14039 Sep 29 23:52 14039 Dec 29 16:43 14040 Feb 08 08:01 14040 Mar 20 05:15 14040 Apr 07 07:22 14040 Jun 04 20:53 14040 Aug 13 03:55 14040 Oct 10 10:04 14040 Oct 18 16:43	29° \$\alpha 22'04 0° \$\text{m}\$ 2° \$\text{m} 03'12\$ 2° \$\text{m} 26'50 2° \$\text{m} 26'51 5° \$\text{m} 22'41 20° \$\text{m} 26'06 20° \$\text{m} 20'01 15° \$\text{m} 29'37 0° \$\text{n}\$ 5° \$\text{n} 26'25\$ 8° \$\text{n} 39'30 8° \$\text{n} 39'3	-0°33'42 0°34'17 -0°43'45 3.97837 AU -0°21'28 0°21'25 5.92596 AU -0°16'59 3.89886 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 conjunction min. Earth dist. direct evening set	14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21 14044 Aug 24 15:34 14045 Feb 27 19:40 14045 Mar 01 14:28 14045 Mar 13 01:00 14045 Mar 13 01:00 14045 Mar 13 15:18 14045 Mar 26 05:09 14045 Jul 25 17:10 14045 Sep 24 17:11 14045 Sep 24 16:52 14045 Nov 25 18:53 14046 Mar 30 12:01 14046 Apr 03 02:21 14046 Apr 12 13:29 14046 Apr 12 06:29 14046 Apr 12 00:16 14046 Apr 25 13:07 14046 Jun 16 21:42	1° \(\) \(0°34'34 6.32058 AU 0°44'21 4.39373 AU 0°24'39 0°24'43 6.45229 AU 0°25'06 4.49121 AU 0°09'01 0°09'01
max. Earth dist. conjunction minimum elong 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	14038 Jul 29 08:06 14038 Aug 01 00:23 14038 Aug 01 00:23 14038 Aug 11 07:56 14038 Aug 11 07:57 14038 Aug 24 08:18 14038 Dec 31 13:05 14039 Mar 01 04:49 14039 Mar 01 23:14 14039 Apr 29 10:37 14039 Sep 16 17:02 14039 Sep 16 17:03 14039 Sep 16 07:25 14039 Sep 16 07:25 14039 Sep 29 23:52 14039 Dec 29 16:43 14040 Feb 08 08:01 14040 Mar 20 05:15 14040 Apr 07 14:59 14040 Apr 07 07:22 14040 Jun 04 20:53 14040 Aug 13 03:55 14040 Oct 10 10:04 14040 Oct 18 16:43	29° \$\alpha 22'04 0° \$\mathbf{m}\$ 2° \$\mathbf{m} 03'12 2° \$\mathbf{m} 26'50 2° \$\mathbf{m} 26'51 5° \$\mathbf{m} 22'41 20° \$\mathbf{m} 22'41 20° \$\mathbf{m} 22'01 15° \$\mathbf{m} 29'37 0° \$\alpha\$ 5° \$\alpha 26'25 8° \$\alpha 39'30 8° \$\alpha 39'30 8° \$\alpha 33'38 11° \$\alpha 53'40 0° \$\mathbf{m}\$ 2° \$\mathbf{m} 37'05 30° \$\alpha\$ 27° \$\alpha 37'44 27° \$\alpha 40'18 22° \$\alpha 42'28 0° \$\mathbf{m}\$ 12° \$\mathbf{m} 58'51 15° \$\mathbf{m}\$ 16° \$\mathbf{m} 15'48	-0°33'42 0°34'17 -0°43'45 3.97837 AU -0°21'28 0°21'25 5.92596 AU -0°16'59 3.89886 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 conjunction min. Earth dist. direct evening set	14044 Feb 10 00:43 14044 Feb 11 19:04 14044 Feb 23 09:27 14044 Jun 25 19:42 14044 Aug 25 11:21 14044 Aug 24 15:34 14045 Feb 27 19:40 14045 Mar 01 14:28 14045 Mar 13 01:00 14045 Mar 13 01:00 14045 Mar 13 15:18 14045 Mar 26 05:09 14045 Jul 25 17:10 14045 Sep 24 17:11 14045 Sep 24 16:52 14045 Nov 25 18:53 14046 Mar 30 12:01 14046 Apr 12 13:29 14046 Apr 12 13:29 14046 Apr 12 06:29 14046 Apr 12 00:16 14046 Apr 12 00:16 14046 Apr 25 13:07	1° \(\) \(0°34'34 6.32058 AU 0°44'21 4.39373 AU 0°24'39 0°24'43 6.45229 AU 0°25'06 4.49121 AU 0°09'01 0°09'01

opposition	14046 Oct 24 12:22	16° 8 28'01	-0°00'05		14052 Jul 14 12:33	0°M.	
min. Earth dist.	14046 Oct 25 06:14	16° 8 22'18		asc. node	14052 Sep 05 05:59	8°M55'59	
mm. Earth dist.	14046 Nov 05 03:20	15°R 8	1.50 105 110	use. Houe	14052 Oct 01 22:49	15°M	
direct	14046 Dec 25 23:48	11° 8 27'16		evening set	14052 Oct 15 16:23	18°M18'05	
	14047 Feb 14 13:19	15° 8					
evening set	14047 Apr 29 14:50	28° 8 33'38		conjunction	14052 Oct 29 03:42	21°M35'12	0°02'58
C	14047 May 06 07:48	$\Pi^{\circ}0$		minimum elong	14052 Oct 29 03:41	21°M35'11	0°03'43
max. Earth dist.	14047 May 10 22:51	0° Ⅱ 59'51	6.47834 AU	behind sun begin	14052 Oct 28 19:25	21°M30'09	
	•			behind sun end	14052 Oct 29 11:57	21°M40'13	
conjunction	14047 May 12 12:56	1° Ⅱ 20′24	-0°08'59	max. Earth dist.	14052 Oct 30 13:25	21°M55'47	5.90500 AU
minimum elong	14047 May 12 12:56	1° Ⅱ 20′24	0°09'51	morning rise	14052 Nov 11 16:43	24°M53'09	
behind sun begin	14047 May 12 06:25	1° Ⅱ 16'55			14052 Dec 03 05:29	0° ∡ ¹	
behind sun end	14047 May 12 19:26	1° Ⅱ 23'54		retrograde	14053 Mar 22 23:26	15° ∡ ³34'55	
morning rise	14047 May 25 09:28	4° Ⅱ 06'34		min. Earth dist.	14053 May 19 22:56	10° х 43′03	3.94294 AU
retrograde	14047 Sep 23 20:52	20° Ⅱ 58'11		opposition	14053 May 21 06:01	10° ∡ ³32'32	0°21'34
opposition	14047 Nov 23 22:43	16° Ⅱ 04'27	-0°25'36	direct	14053 Jul 18 09:04	5° ∡ ¹36'35	
min. Earth dist.	14047 Nov 25 08:20	15° Ⅱ 53'42	4.43161 AU	evening set	14053 Nov 22 17:52	25° ∡ ¹26'25	
direct	14048 Jan 25 07:43	11° Ⅱ 03'51					
evening set	14048 May 29 03:49	28° Ⅱ 36'11		conjunction	14053 Dec 06 07:19	28° ∡ ³39'46	0°23'15
	14048 Jun 04 11:59	0 \circ \odot		minimum elong	14053 Dec 06 07:18	28° ₹ 39'45	0°24'17
max. Earth dist.	14048 Jun 08 18:06	0° © 56'29	6.36680 AU	max. Earth dist.	14053 Dec 08 15:11	29° ∡ 12'59	6.00431 AU
					14053 Dec 11 22:19	0°ಕ	
conjunction	14048 Jun 11 00:13	1° 9 526'27		morning rise	14053 Dec 19 22:11	1° る 53'30	
minimum elong	14048 Jun 11 00:12	1° © 26'26	0°25'55	retrograde	14054 Apr 27 21:23	21° る 39'35	
morning rise	14048 Jun 23 19:35	4° © 16'27		min. Earth dist.	14054 Jun 24 23:01	16° る 49'24	4.08266 AU
retrograde	14048 Oct 25 05:59	21° © 53'24		opposition	14054 Jun 26 13:59	16° පි 36'14	0°45'25
opposition	14048 Dec 24 23:53	16° © 59'35		direct	14054 Aug 24 11:39	11° る 38'25	
min. Earth dist.	14048 Dec 26 14:56	16°546'59	4.28814 AU		14054 Dec 26 13:22	0° ≈	
direct	14049 Feb 24 14:10	11°959'43		evening set	14054 Dec 29 04:15	0° ≈ 35'42	
	14049 Jun 28 18:07	0° N			14055 1 11 16 20	20 - 40155	002404
evening set	14049 Jun 30 02:08	0° Ω 18'13	(20171 ATT	conjunction	14055 Jan 11 16:38	3°≈40'55	0°34'04
max. Earth dist.	14049 Jul 10 17:29	2° Ω 44'25	6.20171 AU	minimum elong max. Earth dist.	14055 Jan 11 16:38	3°≈40'55	0°35'01
· · · · · · · · · · · · ·	14040 I1 12 22-00	3° Ω 15'16	0024111	max. Earth dist.	14055 Jan 14 01:53	4°≈13'39 6°≈45'49	6.17075 AU
conjunction minimum elong	14049 Jul 12 23:08 14049 Jul 12 23:08	3°Ω15'16		morning rise	14055 Jan 25 05:06 14055 Mar 04 08:45	0 ≈43 49 15°≈	
morning rise	14049 Jul 25 19:47	6°Ω12'32	0 33 08	retrograde	14055 May 31 02:29	15 ≈ 25°≈16'56	
morning risc	14049 Sep 04 05:11	15° Ω		min. Earth dist.	14055 Jul 28 22:42	20°≈25'46	4.25904 AU
retrograde	14049 Nov 29 06:33	24°Ω57'58		opposition	14055 Jul 30 07:17	20°≈14'54	0°51'49
opposition	14050 Jan 28 10:30	20°Ω03'07	-0°52'22	direct	14055 Sep 28 10:04	15°≈15'32	0 31 47
min. Earth dist.	14050 Jan 29 20:34	19° Ω 52'00		anoct	14056 Jan 17 00:44	0°) €	
direct	14050 Mar 29 20:04	15° Ω 04'54	2,5110	evening set	14056 Feb 01 05:47	3°) 17′25	
	14050 Jul 15 13:38	0° m)		8			
evening set	14050 Aug 03 04:09	4° m) 19'37		conjunction	14056 Feb 14 14:40	6°) 13′52	0°33'11
max. Earth dist.	14050 Aug 14 14:20	7° m 02'48	6.03097 AU	minimum elong	14056 Feb 14 14:41	6°) 13′52	0°33'43
				max. Earth dist.	14056 Feb 16 05:38	6° ¥ 35'19	6.34250 AU
conjunction	14050 Aug 16 04:28	7° m 25'34	-0°32'43	morning rise	14056 Feb 27 22:55	9° ∺ 09'41	
minimum elong	14050 Aug 16 04:29	7° m 25'34	0°33'13	retrograde	14056 Jun 30 00:34	26°) 35'34	
morning rise	14050 Aug 29 05:45	10°M 32'18		opposition	14056 Aug 29 18:14	21° ¥ 36′07	0°42'14
	14050 Dec 18 18:35	0∘ ⊽		min. Earth dist.	14056 Aug 29 00:28	21°) 41′56	4.41285 AU
retrograde	14051 Jan 05 18:06	0° م 31'39		direct	14056 Oct 30 01:04	16°) ₹35'48	
	14051 Jan 23 18:23	30°R, Mp			14057 Feb 13 08:32	0° Y	
opposition	14051 Mar 06 09:19	25° Mp 34′46	-0°40'58	evening set	14057 Mar 04 03:40	3° Y 56'36	
min. Earth dist.	14051 Mar 06 23:51	25° m 29'57	3.96222 AU				
direct	14051 May 04 10:38	20° m 38'30		conjunction	14057 Mar 17 08:32	6° Ƴ 46'28	0°22'46
	14051 Jul 23 18:55	0∘ ⊽		minimum elong	14057 Mar 17 08:33	6° Ƴ 46'28	0°22'45
evening set	14051 Sep 08 14:55	10° ≏ 40'16		max. Earth dist.	14057 Mar 17 20:39	6° Y ′52'58	6.46747 AU
				morning rise	14057 Mar 30 11:49	9° Y 35'29	
conjunction	14051 Sep 21 20:53	13° £ 54'16		retrograde	14057 Jul 29 18:17	26° Y ′20'48	
minimum elong	14051 Sep 21 20:54	13° £ 54'16		opposition	14057 Sep 28 20:13	21° Y ′24'09	0°21'52
max. Earth dist.	14051 Sep 21 16:40	13° £ 51'41	5.91572 AU	min. Earth dist.	14057 Sep 28 21:55	21° Y 23'36	4.50150 AU
morning rise	14051 Oct 05 04:32	17° Ω 09'20		direct	14057 Nov 30 00:15	16° Y 23'27	
, ,	14051 Dec 01 17:25	0°M		• .	14058 Mar 18 06:12	0°8	
retrograde	14052 Feb 13 17:17	7°M56'45	0012/20	evening set	14058 Apr 03 16:01	3° 8 25'17	
opposition	14052 Apr 12 22:39	2°M.57'00		aaminus -ti	14050 4 16 16 45	CO U 1 1140	0006120
min. Earth dist.	14052 Apr 12 12:45	3°M00'20	3.89571 AU	conjunction	14058 Apr 16 16:45	6° 8 11'48	0°06'38 0°06'06
direct	14052 May 06 12:11 14052 Jun 10 03:32	30°R ≏ 28° ≏ 01'46		minimum elong behind sun begin	14058 Apr 16 16:45 14058 Apr 16 09:08	6°811'48 6°807'46	0 00 00
ancei	17032 Jun 10 03.32	20 ==0140		ocimia sun ocgili	17030 Apr 10 03.08	0 007 40	

behind sun end	14058 Apr 17 00:22	6° 8 15'51			14063 Nov 11 09:12	0° M	
max. Earth dist.	14058 Apr 17 00:22 14058 Apr 15 22:45	6° 8 02'12	6.51368 AU	retrograde	14064 Feb 19 03:36	13°ML21'06	
morning rise	14058 Apr 13 22:43	8° 8 57'34	0.31308 AU	opposition	14064 Apr 18 08:07	8°M20'58	-0°07'35
morning risc	14058 May 29 02:58	15° B		min. Earth dist.	14064 Apr 17 18:12	8°ML25'40	3.89036 AU
retrograde	14058 Aug 28 10:44	25° 8 32'20		direct	14064 Jun 15 09:49	3°M25'47	3.07030 AC
desc. node	14058 Sep 06 15:55	25° 8 24'22		asc. node	14064 Jul 14 10:14	4°ML50'48	
opposition	14058 Oct 28 15:06	20° 8 37'40	-0°03'38	use. Hode	14064 Sep 13 15:11	15°M	
min. Earth dist.	14058 Oct 29 12:16	20° 8 30'53	4.50339 AU	evening set	14064 Oct 21 01:39	23°M42'48	
direct	14058 Dec 30 04:16	15° 8 36'50	1.50557 110	evening sec	11001000 21 01.59	23 110 12 10	
direct	14059 Apr 20 19:21	0°Ⅱ		conjunction	14064 Nov 03 13:24	27°ML00'00	0°06'06
evening set	14059 May 03 17:27	2° ∏ 44'07		minimum elong	14064 Nov 03 13:24	27°ML00'00	0°06'56
max. Earth dist.	14059 May 14 22:08	5° Ⅱ 08'48	6.47065 AU	behind sun begin	14064 Nov 03 05:39	26°ML55'17	0 00 50
man. Darm dist.	11009 11149 11 22:00	2 200 .0	0.17000110	behind sun end	14064 Nov 03 21:09	27°ML04'42	
conjunction	14059 May 16 15:15	5° Ⅱ 31'01	-0°11'19	max. Earth dist.	14064 Nov 05 02:41	27°ML22'43	5.90840 AU
minimum elong	14059 May 16 15:15	5° ∏ 31'01		man zarur diot.	14064 Nov 15 21:19	0° × 7	0.500.0110
behind sun begin	14059 May 16 09:54	5° ∏ 28'09	0 1211	morning rise	14064 Nov 17 03:11	0° х 18′04	
behind sun end	14059 May 16 20:36	5° ∏ 33'54		retrograde	14065 Mar 28 04:41	20° ₹ ¹56'08	
morning rise	14059 May 29 11:25	8° Ⅱ 17'20		min. Earth dist.	14065 May 25 02:47	16° ₹ '04'52	3.95463 AU
retrograde	14059 Sep 28 02:00	25° I 12'28		opposition	14065 May 26 12:36	15° × 753'24	0°25'47
opposition	14059 Nov 28 04:14	20° I 18'41	-0°28'42	direct	14065 Jul 23 17:07	10° × 55'11	0 23 17
min. Earth dist.	14059 Nov 29 14:37	20° I 107'40	4.41801 AU	411001	14065 Nov 25 01:44	0°ਰ	
direct	14060 Jan 29 10:51	15° Ⅱ 18'04		evening set	14065 Nov 28 00:43	0° る 41'43	
	14060 May 19 23:38	0°50		evening see	110001101 20 00.10	0 0 .1 .5	
evening set	14060 Jun 02 08:59	2° © 54'49		conjunction	14065 Dec 11 14:21	3°₹54'14	0°25'26
max. Earth dist.	14060 Jun 12 22:30		6.34807 AU	minimum elong	14065 Dec 11 14:21	3° ਰ 54'14	0°26'29
man. Bartin dist.	1.000 tun 12 22.50	0 0 10 10	0.5 100 / 110	max. Earth dist.	14065 Dec 14 01:15	4° る 29'06	6.02309 AU
conjunction	14060 Jun 15 05:17	5°935'44	-0°26'34	morning rise	14065 Dec 25 05:00	7° る 06'58	0.02303110
minimum elong	14060 Jun 15 05:16	5°9545'43		retrograde	14066 May 02 19:21	26° පි 43'20	
morning rise	14060 Jun 28 00:33	8°936'26	0 2/3/	min. Earth dist.	14066 Jun 29 22:11	21° ප 53'01	4.10613 AU
retrograde	14060 Oct 29 20:16	26°\$21'08		opposition	14066 Jul 01 12:54	21° る 39'58	0°47'22
opposition	14060 Dec 29 11:49	21° © 27'13	-0°47'08	direct	14066 Aug 29 14:47	16° ප් 41'53	0 17 22
min. Earth dist.	14060 Dec 31 04:21	21°9514'08	4.26515 AU	411001	14066 Dec 09 05:18	0° ≈	
direct	14061 Feb 28 23:39	16°9527'26	20010110	evening set	14067 Jan 03 03:46	5°≈30'52	
	14061 Jun 12 17:07	0°Ω		7 · · · · · · · · · · · · · · · · · · ·			
evening set	14061 Jul 04 13:20	4°Ω53'24		conjunction	14067 Jan 16 15:40	8° ≈ 34'44	0°34'36
max. Earth dist.			6.17617 AU	-			
max. Earth dist.	14061 Jul 15 03:57	7° Ω 20'02	6.17617 AU	minimum elong	14067 Jan 16 15:40	8° ≈ 34'44	0°35'29
	14061 Jul 15 03:57	7° Ω 20′02		minimum elong max. Earth dist.	14067 Jan 16 15:40 14067 Jan 19 00:07	8°≈34'44 9°≈06'49	
conjunction	14061 Jul 15 03:57 14061 Jul 17 10:35	7°Ω20'02 7°Ω51'37	-0°34'40	minimum elong	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40	8° ≈ 34'44	0°35'29
conjunction minimum elong	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35	7°\O20'02 7°\O51'37 7°\O51'37	-0°34'40	minimum elong max. Earth dist. morning rise	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49	8°≈34'44 9°≈06'49 11°≈38'17 15°≈	0°35'29
conjunction	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35 14061 Jul 30 07:49	7° N20'02 7° N51'37 7° N51'37 10° N50'11	-0°34'40	minimum elong max. Earth dist. morning rise retrograde	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49 14067 Jun 04 12:55	8°≈34'44 9°≈06'49 11°≈38'17 15°≈ 29°≈58'41	0°35'29 6.19647 AU
conjunction minimum elong morning rise	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35 14061 Jul 30 07:49 14061 Aug 17 16:55	7° N 20'02 7° N 51'37 7° N 51'37 10° N 50'11 15° N	-0°34'40	minimum elong max. Earth dist. morning rise retrograde opposition	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49 14067 Jun 04 12:55 14067 Aug 03 21:05	8°≈34'44 9°≈06'49 11°≈38'17 15°≈ 29°≈58'41 24°≈56'52	0°35'29 6.19647 AU 0°51'15
conjunction minimum elong morning rise retrograde	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35 14061 Jul 30 07:49 14061 Aug 17 16:55 14061 Dec 04 04:17	7° \$\Omega 20'02 7° \$\Omega 51'37 7° \$\Omega 51'37 10° \$\Omega 50'11 15° \$\Omega 29° \$\Omega 46'32	-0°34'40 0°35'34	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49 14067 Jun 04 12:55 14067 Aug 03 21:05 14067 Aug 02 13:15	8°≈34'44 9°≈06'49 11°≈38'17 15°≈ 29°≈58'41 24°≈56'52 25°≈07'27	0°35'29 6.19647 AU
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conjunction minimum elong morning rise retrograde opposition min. Earth dist.	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35 14061 Jul 30 07:49 14061 Aug 17 16:55 14061 Dec 04 04:17 14062 Feb 02 07:09 14062 Feb 03 14:56	7°\$\Omega_20'02 7°\$\Omega_51'37 7°\$\Omega_50'11 15°\$\Omega_29°\$\Omega_46'32 24°\$\Omega_51'25 24°\$\Omega_41'00	-0°34'40 0°35'34	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49 14067 Jun 04 12:55 14067 Aug 03 21:05 14067 Aug 02 13:15 14067 Oct 03 03:30 14067 Dec 30 03:47	8°≈34'44 9°≈06'49 11°≈38'17 15°≈ 29°≈58'41 24°≈56'52 25°≈07'27 19°≈57'18 0°¥	0°35'29 6.19647 AU 0°51'15
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conjunction minimum elong morning rise retrograde opposition min. Earth dist.	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35 14061 Jul 30 07:49 14061 Aug 17 16:55 14061 Dec 04 04:17 14062 Feb 02 07:09 14062 Feb 03 14:56 14062 Apr 03 11:21 14062 Jun 27 19:20 14062 Aug 07 23:54	7° \$\Omega 20'02 7° \$\Omega 51'37 7° \$\Omega 51'37 10° \$\Omega 50'11 15° \$\Omega 29° \$\Omega 46'32 24° \$\Omega 51'25 24° \$\Omega 41'00 19° \$\Omega 53'22 0° \$\Omega 9° \$\Omega 16'51	-0°34'40 0°35'34 -0°51'58 4.08658 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49 14067 Jun 04 12:55 14067 Aug 03 21:05 14067 Aug 02 13:15 14067 Oct 03 03:30 14067 Dec 30 03:47	8°≈34'44 9°≈06'49 11°≈38'17 15°≈ 29°≈58'41 24°≈56'52 25°≈07'27 19°≈57'18 0°¥	0°35'29 6.19647 AU 0°51'15 4.28458 AU
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conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	14061 Jul 15 03:57 14061 Jul 17 10:35 14061 Jul 17 10:35 14061 Jul 30 07:49 14061 Aug 17 16:55 14061 Dec 04 04:17 14062 Feb 02 07:09 14062 Feb 03 14:56 14062 Apr 03 11:21 14062 Jun 27 19:20 14062 Aug 07 23:54 14062 Aug 19 15:03 14062 Aug 21 01:02 14062 Aug 21 01:03 14062 Sep 03 03:07	7° \$\Omega 20'02 7° \$\Omega 51'37 7° \$\Omega 51'37 10° \$\Omega 50'11 15° \$\Omega 29° \$\Omega 46'32 24° \$\Omega 51'25 24° \$\Omega 41'00 19° \$\Omega 53'22 0° \$\Omega 9° \$\Omega 16'51 12° \$\Omega 24'15 12° \$\Omega 24'16 15° \$\Omega 32'29	-0°34'40 0°35'34 -0°51'58 4.08658 AU 6.00665 AU -0°31'31	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	14067 Jan 16 15:40 14067 Jan 19 00:07 14067 Jan 30 03:40 14067 Feb 14 06:49 14067 Jun 04 12:55 14067 Aug 03 21:05 14067 Aug 02 13:15 14067 Oct 03 03:30 14067 Dec 30 03:47 14068 Feb 05 20:48 14068 Feb 19 05:07 14068 Feb 19 05:07 14068 Feb 20 16:48 14068 Mar 03 12:32 14068 Jun 08 23:40 14068 Jul 04 06:29	8°≈34'44 9°≈06'49 11°≈38'17 15°≈ 29°≈58'41 24°≈56'52 25°≈07'27 19°≈57'18 0° ₩ 7° ₩51'39 10° ₩46'54 10° ₩46'55 11° ₩06'28 13° ₩41'28 0° Ψ 0° Ψ'59'16	0°35'29 6.19647 AU 0°51'15 4.28458 AU 0°32'10 0°32'38
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Companies 1000 1001 10	min. Earth dist.	14069 Oct 03 04:52	25°Υ36'56	4.50888 AU	min. Earth dist.	14075 Mar 17 09:05		3.92641 AU
Part	direct	14069 Dec 04 06:17	20° Ƴ 37'43		direct	14075 May 14 17:40	1° £ 13'11	
1	avaning sat				evening set	14073 Sep 19 04.22	21 == 23 36	
Companies 4000 Apr 20 2102 0752491 070310 07031	evening set	140/0 Apr 0/ 20.41	7 03622		conjunction	14075 Oct 02 12:02	24° Ω 41'50	-0°13'14
Miniman clong 1407 Am 2 2104 10 10 12 12 10 10 10 10	conjunction	14070 Apr 20 21:02	10° 8 24'41	0°04'07	,			
Sebindi aun negin 4079 Apr 201300 10°E32728 Sebindi aun ned 4079 Apr 20 6029 10°E3745 Sebindi aun ned 4079 Apr 20 6029 10°E1374 Sebindi aun ned 4079 Apr 20 6029 10°	•		_		_			
Seband anneal 1407 Am 21 0501 1052855 Semax Earth dist 14075 Cot 2 1804 7464373 58945 AU morning free 14070 May 12 19124 14075 May 13 1914 14075 May 13 1915 14076 May 13 1914 14075 May 13 1914 140	_	-	_					
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Monimarine 14070 May 21 1914 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925	max. Earth dist.	-	10° 8 13'43	6.51432 AU	morning rise	14075 Oct 15 21:41	27° ≏ 58'49	
Companies 4070 Nov 0 1933 26°85613	morning rise	14070 May 03 19:34	13° 8 10'14			14075 Oct 24 05:41	0° M	
Part		14070 May 12 11:58	15° 8			14076 Jan 05 16:53	15° M ₊	
opposition 14070 Nov 0 1 933 by 24°B5118 40°720 or min Earth dist. 14070 Apr 2 1343 42°B518 40°730 or min Earth dist. 14076 Apr 2 2 2004 12°B518 40°B53	desc. node	14070 Jul 19 13:30	26° 8 56'13		retrograde	14076 Feb 24 15:03	18°M53'10	
sine fairl dist 4407 Nov 0 2 1834 24°B43's 4.973 AU mine fairl dist 4407 Apr 2 3 2.01 1 13°B,537 3 3.8926 AU direct 14071 Apr 3 20.44 9°B40'3 cerening set 1407 May 2 2.37 7 "1100'5 cerening set 1407 Apr 2 3 2.01 1 \$700 Apr 2 1.00 To 10	retrograde	14070 Sep 01 14:21	29° 8 45'44			14076 Apr 15 10:56	15°RM	
Series 1407 130 130 1820 1826 1873	opposition	14070 Nov 01 19:33	24° 8 51'18	-0°07'20	opposition	14076 Apr 23 20:06	13°M52'34	-0°02'36
Compane 14071 Apr 3 2014 0" 17 17 100	min. Earth dist.		_	4.49733 AU	min. Earth dist.	-		3.89226 AU
No.	direct				asc. node	14076 May 23 03:19		
max. Earth dist. 14071 May 18 2317. 9°III.2325 6.45815 AU evening set 14076 Oct 2 6 12.55 29°III.175 conjunction 14071 May 20 19.57 9°II.4738 0°19430 conjunction 14076 Nov 0 9 00.38 2°.28'2848 0°19014 conjunction 14076 Nov 0 9 0°138 2°.28'2848 0°19014 conjunction 14076 Nov 0 9 0°138 2°.28'2849 0°19018 conjunction 14076 Nov 0 0 0°138 2°.28'2849 0°19018		•			direct			
Comjunction	•					-		
Conjunction HaV1 May 20 19.57 9"H4738 0"1430 14070 14070 May 20 19.57 9"H4738 0"1430 14070	max. Earth dist.	14071 May 18 23:17	9° Ⅱ 23'25	6.45815 AU	evening set			
Minimumelong						14076 Oct 29 19:43	0° ⊼ ¹	
behind sun end 4071 May 20 16.34 9°II 45'8 minimum elong 14076 Nov 09 00.37 2°x2'848 0°10'08 behind sun end 400'71 May 20 23'20 9°II 49'27 behind sun begin 400'71 Nov 08 17.57 2°x2'32'50 5°19'04 AU morning rise 400'71 Oct 02 13:22 2°III 34'20 max. Earth dist. 400'76 Nov 10 19.58 2°x3'52'50 5°19'04 AU morning rise 400'71 Nov 10 19.58 2°x3'52'50 5°19'04 AU morning rise 400'71 Nov 10 19.58 2°x3'52'50 5°19'04 AU max. Earth dist. 400'76 Nov 10 19.58 2°x3'52'50 5°19'04 AU min. Earth dist. 400'76 Nov 10 19.58 2°x3'52'50 5°19'04 AU min. Earth dist. 400'76 Nov 10 19.58 2°x3'52'50 5°19'04 AU min. Earth dist. 400'77 Nov 10 19.58 2°x3'52'50 5°19'04 AU min. Earth dist. 400'77 Nov 10 19.58 2°x3'17'52 7°19'14'12' Nov 10 19.58 2°x3'17'52 7°19'14'12' Nov 10 19.58 2°x3'17'52 7°19'14' Nov 10 19.58 2°x3'14' Nov 10	•	•				1405631 00 00 00	20 720140	
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14072 Oct 08 23:02 0°	minimum elong	14072 Jun 19 14:15	10° © 15'10	0°29'17	conjunction	14077 Dec 16 19:51	9° ට 05'41	0°27'25
Petrograde 14072 Nov 03 13:44 1°Ω00′58 moming rise 14077 Dec 30 10:19 12°€1707 14072 Nov 29 05:14 30°8€3 14078 Apr 04 21:20 0°≈ 14078 Apr 04 21:20 0°% 14078 Apr 05 11:20 0°% 14078 Apr 06 10:20 0°% 14079 Apr 06 10:20 0°% 1407	morning rise	14072 Jul 02 09:40	13° © 06'51		minimum elong	14077 Dec 16 19:50	9° ට 05'41	0°28'29
14072 Nov 29 05:14 30°R26 retrograde 14078 Apr 04 21:20 0°≈ retrograde 14078 Apr 04 21:20 0°≈ retrograde 14078 May 07 11:57 1°≈41'37 rmin. Earth dist. 14073 Mar 05 11:08 21°207'22 rmin. Earth dist. 14078 May 10 4 17:37 26°35'132 413394 AU opposition 14078 May 10 4 17:37 26°35'132 413394 AU opposition 14078 May 10 40 17:37 22°35'5 revening set 14073 May 10 19 22:49 12°201'102 614910 AU revening set 14078 May 10 00:00 0°≈ 14079 May 10 10:00 0°∞ 12°04'128 0°34'57 rminimum elong 14073 May 10 10:121 15°20 rminimum elong 14079 Jan 21 11:48 13°≈21'56 0°34'54 rminimum elong 14073 May 10 10:121 15°20 rminimum elong 14079 Jan 21 11:48 13°≈21'56 0°34'54 retrograde 14073 May 10 10:121 15°20 rminimum elong 14079 Jan 21 11:48 13°≈21'56 0°34'54 retrograde 14073 May 10 10:121 15°20 rminimum elong 14079 Jan 21 11:48 13°≈21'56 0°34'54 retrograde 14073 May 10 10:121 15°20 rminimum elong 14079 Jan 21 11:48 13°≈21'56 0°34'54 retrograde 14073 May 10 10:121 15°20 rminimum elong 14079 Jan 21 11:48 13°≈21'56 0°34'54 retrograde 14079 Jan 28 17:36 15°≈ retrograde 14079 Jan 28 17:36 15°≈ retrograde 14079 Feb 30 23:10 16°≈23'57 retrograde 14074 Feb 10 10:30 30°R0 retrograde 14079 May 10 10 12:37 4°73'31'5 retrograde 14079 May 10 10 10 12:37 4°73'31'5 retrograde 14079 May 10 10 10 12:38 15°74'51'5 retr		14072 Oct 08 23:02	$0^{\circ}\Omega$		max. Earth dist.	14077 Dec 19 08:25	9° る 41'19	6.04788 AU
opposition 14073 Jan 03 04:32 26°206'56 -0°48'46 retrograde 14078 May 07 11:57 1°≈41'37 Incatt dist. 14073 Jan 04 20:02 25°25'409 4.23910 AU retrograde 14078 Jun 08 23:45 30°RG 4.33394 AU 4.3394 AU 4.348 AU 4.348 AU 4.3595 AU 4.348 AU 4.348 AU 4.3394 AU 4.348 AU 4.34	retrograde	14072 Nov 03 13:44	1° Ω 00'58		morning rise	14077 Dec 30 10:19	12° る 17'07	
min. Earth dist.						-	0° ≈	
direct 14073 Mar 05 11:08 21°\$07'22 min. Earth dist. 14078 Jul 04 17:37 26°\$51'32 4.13394 AU 14073 May 25 07:07 0°\$\(\) 0°\$\(\) 0°\$\(\) 0°\$\(\) 14078 Jul 09 05:28 9°\$\(\) 0.15'5 0.14910 AU 14073 Jul 19 22:49 12°\$\(\) 0.11'2 0.14910 AU 14073 Jul 19 22:49 12°\$\(\) 0.11'2 0.14910 AU 14073 Jul 19 22:40 12°\$\(\) 0.11'2 0.14910 AU 14073 Jul 19 22 03:07 12°\$\(\) 0.11'2 0.35457 14073 Aug 01 01:21 15°\$\(\) 0°\$\(\) 110'2 0.3547 14073 Aug 01 01:21 15°\$\(\) 0°\$\(\) 110'2 0.3547 14073 Aug 01 01:21 15°\$\(\) 0°\$\(\) 110'2 0.3412 14073 Oct 13 05:30 0°\$\(\) 0°\$\(\) 14079 Jul 12 11:48 13°\$\(\) 22.03:07 14073 Oct 13 05:30 0°\$\(\) 0°\$\(\) 14079 Jul 12 11:48 13°\$\(\) 15°\$\(\) 14074 Feb 06 15:49 30°\$\(\) 0°\$\(\) 14074 Feb 06 15:49 30°\$\(\) 0°\$\(\) 14074 Feb 06 15:49 30°\$\(\) 0°\$\(\) 14074 Feb 08 16:18 29°\$\(\) 0°\$\(\) 14074 Feb 06 15:49 24°\$\(\) 0°\$\(\) 14074 Aug 13 01:09 24°\$\(\) 0°\$\(\) 14074 Aug 13 01:09 24°\$\(\) 0°\$\(\) 14074 Feb 08 16:18 29°\$\(\) 14074 Feb 09 10:19 24°\$\(\) 14074 Aug 13 01:09 24°\$\(\) 14074 Aug 13 01:09 24°\$\(\) 14074 Feb 08 16:18 29°\$\(\) 14074 Feb 09 10:19 24°\$\(\) 14074 Aug 13 01:09 14°\$\(\) 14074 Aug 13 01:0	**				retrograde			
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conjunction 14073 Jul 22 03:07 12° Q41'28 0°34'57 14073 Jul 22 03:07 12° Q41'28 0°35'47 14073 Jul 22 03:07 12° Q41'28 0°35'47 14073 Jul 22 03:07 12° Q41'28 0°35'47 14073 Jul 22 03:07 15° Q 41'25 15° Q 41'25 15° Q 41'25 15° Q 41'25 14073 Jul 14073 Jul 15° Q 41'25 15° Q 41'25 15° Q 41'25 14073 Jul 14073 Jul 14073 Jul 15° Q 41'25 15° Q 41'25 14073 Jul 14073 Jul 14073 Jul 15° Q 41'25 15° Q 41'25 14073 Jul 14073 Jul 14073 Jul 14073 Jul 15° Q 41'25 14073 Jul 14073 Jul 14073 Jul 15° Q 41'25 14074 Jul 14073 J	•			C 14010 ATT	direct	•		
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evening set 14080 Feb 10 08:30 12°\tau18'47 conjunction 14074 Aug 26 03:07 17°\tau37'15 -0°30'00 minimum elong 14074 Aug 26 03:08 17°\tau37'15 0°30'21 morning rise 14074 Sep 08 06:09 20°\tau46'56	evening set	14074 Aug 13 01:09	14° Mp 28'26		direct	14079 Oct 07 20:24	24° ≈ 32′00	
conjunction 14074 Aug 26 03:07 17° № 37'15 -0°30'00 minimum elong 14074 Aug 26 03:08 17° № 37'15 0°30'21 conjunction 14080 Feb 23 16:15 15° ₭ 12'55 0°31'00 morning rise 14074 Sep 08 06:09 20° № 46'56 minimum elong 14080 Feb 23 16:16 15° ₭ 12'55 0°31'22 0°31'22 retrograde 14075 Jan 16 14:52 11° £06'31 morning rise 14080 Mar 07 22:59 18° ₭ 06'19 18° ₭ 06'19	max. Earth dist.	14074 Aug 24 21:04	17° m 19'07	5.98446 AU		14079 Dec 09 06:29		
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								6.38807 AU
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	opposition	140/5 Mar 17 00:57	0~7708,28	-0~34/21		14080 May 08 05:43	O.A.	

Mass		14000 1 1 00 00 17	50001 6145			14005 1 1 26 22 02	170 025150	0025146
Man March	retrograde	14080 Jul 08 08:17	5°Υ16'45		minimum elong	14085 Jul 26 22:02		0°35'46
May 1999 by 1912 1974 1975 19		•			morning rise	_		
discrete 4980 Nov 07 1930 25°F173 V copposition 4080 Rat of 80 187 60°F2739 V cornected of 4080 Rat of 80 187 60°F2739 V cornected of 4080 Rat of 80 187 60°F2739 V cornected of 4080 Rat of 80°F3 V 60°F2739 V 60°F2739 V cornected of 4080 Rat of 80°F3 V 60°F2739 V	min. Earth dist.	•		4.44896 AU		•	-•	
Commission Com		14080 Sep 09 13:22			retrograde	14085 Dec 14 16:22	-•	
Personne 1408 Mar 12 17-46 12 "P" 29 "9 Personne 1408 Aug 10 060 Aug 18 062 Personne 1408 Aug 10 060	direct				opposition	14086 Feb 12 14:03	-	-0°49'54
Computer		14081 Jan 05 08:17			min. Earth dist.	14086 Feb 13 17:19	4° Mp 52′09	4.03729 AU
cospination [498] Marg 25 [23] 5°P*(1897) 0°1826 max. Earth dist. 1408 Marg 26 (0.15) 5°976970 6.9455 AU companient 1408 Marg 26 (0.15) 5°976970 6.9455 AU companient 14080 Aug 31 0.64 2279,0770 0°2875 comming free 14080 Aug 31 0.64 14080 Aug 31 0.64 279,0770 0°2829 comming free 14080 Aug 31 0.64 279,0770 0°2829 comming free 14080 Sep 31 0.06 279,0770 0°282 composition 14080 Cel 0.0153 30°7° 45136 AU 46080 Aug 31 0.64 162,0172 0°270 prosition 14080 Cel 0.0153 30°7° 45136 AU 46087 Marg 20 0.133 6°63,172 0°170 46087 Marg 20 0.133 6°63,172 0°170 <td< td=""><td>evening set</td><td>14081 Mar 12 17:46</td><td>12°Y29'39</td><td></td><td>direct</td><td>14086 Apr 13 08:55</td><td>0° Mp 03′43</td><td></td></td<>	evening set	14081 Mar 12 17:46	12° Y 29'39		direct	14086 Apr 13 08:55	0° Mp 03′43	
minimal clong Holls Mar 25 0.124 15°P(1897) 0°1875 couplantion 1408 Aug 31 06.44 27°B(37) 0°2879 morning rise 1408 I Arg 0°7 2.325 18°P(0948) morning rise 1408 I Arg 0°7 2.325 18°P(0948) morning rise 1408 I Aug 0°6 2.311 4254231 1408 I Aug 0°6 2.311 4264231 1408 I Aug 0°6 2.311 4264231 1408 I Aug 0°6 2.311 29°P(4857) 45126 AUg 0°6 10 4408 I Aug 0°6 2.311 29°P(4857) 45126 AUg 0°7 10 4408 I Aug 0°6 2.311 29°P(4857) 45126 AUg 0°7 10 4408 I Aug 0°6 2.311 29°P(4857) 45126 AUg 0°7 10 44087 Marg 2.312 11°24 I Ray 10°7 10°30 14°187 Marg 2.312 11°24 I Ray 10°7 10°30 14°187 Marg 2.312					evening set	14086 Aug 18 04:07	19° m 43'08	
max Earth disc 41488 Lay 20 23.25 18**/19*8 (a) 45.5 AU companing rise 14086 Lay 20 23.25 18**/19*8 (a) 20 23.25 18**/19*	conjunction	14081 Mar 25 21:23	15° Ƴ 18'07	0°18'36	max. Earth dist.	14086 Aug 30 05:14	22° M 37'40	5.96661 AU
Manufaction 1408 140 12 125 18" 15	minimum elong	14081 Mar 25 21:24	15° Ƴ 18'07	0°18'26				
Charles	max. Earth dist.	14081 Mar 26 00:15	15° Ƴ 19'39	6.49155 AU	conjunction	14086 Aug 31 06:44	22° m 53'07	-0°28'15
Armograde Alba Nag of 2:311 4*84135 4*84154 14081 100	morning rise	14081 Apr 07 23:25	18° Ƴ 05'45		minimum elong	14086 Aug 31 06:45	22° m 53'07	0°28'29
1408 1408 1407 1408 1407 1408 1407 1408 1407 1408		14081 Jun 09 21:53	0°8		morning rise	14086 Sep 13 10:46	26° Mp 04'04	
opposition in Earth dist. 1408 l Oct 17 0.232 29°P42833 01457 or 0.090 min. Earth dist. 14087 May 22 15.49 l 12-318 3,916.93 AU direct 14081 Dec 08 11-16 24°P4748 39.160 AU direct 14081 Dec 08 11-16 24°P4748 407 AU direct 14082 Apr 22 15.99 l 12-318 3,916.93 AU direct 14082 Apr 12 00.21 11°E4329 12-30.21 11°E4329 14082 Apr 12 00.21 11°E4329 12-30.21 11°E4329 14082 Apr 12 00.21 11°E4329 16-30.20 11°E43249 16-30.2	retrograde	14081 Aug 06 23:11	4° 8 44'31			14086 Sep 30 00:02	0∘ ত	
sint and ride to direct 4081 Dec		14081 Oct 05 14:55	30° ŖƳ		retrograde	14087 Jan 22 02:10	16° ≏ 31'12	
nine fairth dist 4081 Dec 7 10-35 29°P4788 direct 4087 Mr 22 15-98 11 43148 3-1060 AD direct 14082 Pe 108 1631 0°P4788 direct 4087 Sep 24 12-53 26°B233	opposition	14081 Oct 07 02:32	29° Y '48'33	0°14'57	opposition	14087 Mar 22 11:41	11° ≏ 33'10	-0°30'28
Part		14081 Oct 07 10:35	29° Y 45'57	4.51236 AU	min. Earth dist.	14087 Mar 22 15:49	11° ≏ 31'48	3.91603 AU
Part	direct	14081 Dec 08 11:16	24° Ƴ 47'48		direct	14087 May 20 01:37	6° £ 37'34	
Personal 1482 Apr 12 002 1 1 2 4 3 2 1 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1			0°8		evening set	•	26° ♀ 52'33	
Max. Farth dist.	evening set		_		8			
Conjunction 4082 Apr 2 5 00.10 478 3445 700734 5011434 61807 Oct 07 21.27 6710.045 7010.045	•	-	_	6 51052 AU	conjunction	14087 Oct 07 21:26	0°M,08'54	-0°10'11
Manipulation Mark Agr 25 00.10 14°83445 0°10'35 0°10'36 0°10'14'38 0°11'14'36	man. Darun andı.	1.00211p1 25 21.05	1. 020.0	0.01002110	•			
behind sun begin 14082 Apr 25 0.01 14°B3445 0°0054 behind sun end 14087 Oct 07 06.56 0°IL	conjunction	14082 Apr 25 00:10	1.4° × 3.4'4.5	0°01'35				0 07 43
behind sun end 4082 Apr 24 1608 44°830°9 max. Earth dist. 14087 Oct 07 06.56 0°M 589276 AU 14082 Apr 25 08.11 14°83'90 morning rise 14087 Oct 07 06.56 0°M 589276 AU 14082 Apr 26 23.23 15°B morning rise 14087 Oct 11 03.28 15°M morning rise 14088 Apr 03 07.44 22°M 22°M 15°M 08.50 14082 Apr 29 22.57 12°B 54°F morning rise 14088 Apr 03 07.44 22°M 12°B 54°F 14082 Apr 03 07.44 22°M 12°B 54°F 14088 Apr 03 07.44 22°M 12°B 54°F 14088 Apr 03 07.44 22°M 12°B 54°F 14088 Apr 03 07.44 12°B 54°F 14088 Apr 03 07.44 12°B 55°F 14088 Apr 03 07.44 14088 Apr 03 07.44 14°M 14°M		•	_					
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Moning rise 14082 May 97 22.25 17*82018 retrograde 14087 May 10 10.20 24*11159 retrograde 14082 May 10 10.125 0°II sac. node 14088 May 10 10.20 24*11159 retrograde 14082 Not 91 1449 3°III.57*8 min. Earth dist. 14088 May 20 0.734 27*III.25*15 8.9926 AU 14082 Not 91 1449 3°III.57*8 min. Earth dist. 14088 May 20 0.734 27*III.25*15 8.9926 AU 14088 May 20 0.734 15*NIII.25*15 15*NIII.25*16 14088 May 20 0.734 14*III.23*14 14088 May 20 0.734 14*III.23*14 14088 May 10 0.71 12:18 15*NIII.23*14 14088 May 10 0.72 12:18 15*NIII.23*14 14088 May 10 0.71 12:18 15*NIII.23*14 15*NII	bening sun eng							5.89276 AU
desc. node 14082 May 29 22.57 21°B'54'S7 retrograde 14088 Mar 01 0 2.02 24°R1,979 retrograde 14082 pc 05 19:51 3°IIS7'S8 min. Earth dist. 14082 Nov 07 21.449 30°RB 3°IIS7'S8 min. Earth dist. 14082 Nov 07 01.440 28°B'55'S 2486'9 AU direct 14088 Mar 10 0 7 12:18 15°R1, retrograde 14083 Mar 11 0 60.36 a 11°II 16'43 a 14083 Mar 12 0 60.05 a 1486'9 AU direct 14088 Mar 11 0 60.05 a 18°B'1 a 14083 Mar 12 0 6		*	_		morning rise			
Retrograde 14082 Jul 15 01-25 0°II 3°III 3	•	•			. 1			
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14082 Oct 29 14:49 30°,82 0						•		
opposition 14082 Nov 05 23:58 29°80341 -0°1057 H4088 Jun 07 12:18 5°RIL	retrograde					-		
min. Earth dist. 14082 Nov 07 01:46 28°B5525 4.48659 AU direct 14088 Jun 26 07:32 14°R2343 42°B2345 42°B0252 42°B0262					opposition	•		0°02'20
direct 14083 Jan 07 1240 24°B'02°52 14088 Mar 15 06:36 15°IL 14088 Car 12 14:31 05°A 14088 Mar 15 06:36 18°IL 14083 Mar 15 06:30 18°IL 14083 Mar 15 06:36 18°IL 14083 Mar 15 06:30 18°IL 15°IL 14083 Mar 15 06:30 18°IL 15°IL	**							
evening set	min. Earth dist.	14082 Nov 07 01:46	_	4.48659 AU	direct	14088 Jun 26 07:32		
ceening set 14083 May 12 03:38 11° ∏1613 ceening set 14088 Oct 31 20:48 4° ₹3409 ceening max. Earth dist. 14083 May 23 02:39 13° ∏39'19 6.44122 AU conjunction 14088 Nov 14 09:25 7° ₹50'29 0°12'16 conjunction 14088 Nov 14 09:24 7° ₹50'28 0°13'11 ceening minimum elong 14083 May 25 00:56 14° ∏04'30 0°17'00 behind sun begin 14088 Nov 14 09:24 7° ₹50'28 0°13'11 ceening minimum elong 14083 May 25 00:56 14° ∏04'30 0°17'00 behind sun begin 14088 Nov 14 04:32 7° ₹74'732 ceening set 14083 Jun 10 6 20:39 16° ∰51'14 ceening set 14088 Nov 14 04:32 7° ₹74'732 ceening set 14083 Nov 29 19:43 3° 58'85 ceening set 14088 Nov 16 08:50 23'24 3° 58'85 ceening set 14088 Nov 27 23:46 11° ₹0'730 ceening set 14083 Nov 29 19:43 3° 58'85 ceening set 14088 Nov 27 23:46 11° ₹0'730 ceening set 14084 Jun 10 04:21 11° 50'45' ceening set 14089 Jun 04 08:19 26° ₹3' 30'23 ceening set 14084 Jun 10 04:20 17° 50'45' ceening set 14084 Jun 10 04:20 17° 50'45' ceening set 14084 Jun 10 04:20 17° 50'45' ceening set 14084 Jun 10 04:21 18° 50'45' ceening set 14085 Jun 10 04:21 18° 50'45' ceening set 14085 Jun 10 04:21 18° 50'45' ceening set 1	direct	14083 Jan 07 12:40				14088 Jul 15 02:05		
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evening set 14084 Apr 12 16:54 0°Φ opposition 14089 Jun 05 21:31 26° ¾27'05 0°33'29 evening set 14084 Jun 11 04:21 11°Φ54'57 direct 14089 Aug 03 06:09 21° ¾30'23 conjunction 14084 Jun 24 00:40 14°Φ47'48 -0°29'44 minimum elong 14084 Jun 24 00:40 14°Φ47'47 0°30'47 conjunction 14089 Dec 21 22:17 14°Φ69'04 0°29'10 morning rise 14084 Jul 06 20:20 17°Φ40'36 max. Earth dist. 14089 Dec 21 22:16 14°Φ69'04 0°30'13 eretrograde 14084 Nov 08 11:56 5° Ω45'05 minimum elong 14085 Jun 07 23:37 0° Ω50'57 -0°50'06 min. Earth dist. 14089 Dec 24 09:54 14° Φ43'56 0.7233 AU 14085 Jun 09 15:13 0° Ω min. Earth dist. 14089 Dec 24 09:54 14° Φ43'56 0.7233 AU 14084 Nov 08 11:56 5° Ω45'05 opposition 14085 Jun 14 13:28 30° № min. Earth dist. 14090 Mar 05 21:18 0° № min. Earth dist. 14085 Jun 14 13:28 30° № min. Earth dist. 14090 Mar 15 21:18 0° № min. Earth dist. 14085 Mar 10 03:21 25° Φ51'37 opposition 14090 Mar 12 10 2:28 1° № 29'42 0°50'10 evening set 14085 Jul 13 23:49 14° Ω35'02 direct 14090 Mar 12 10:28 1° № 29'42 0°50'10 evening set 14085 Jul 13 18:50 15° Ω direct 14090 Mar 12 18:40 15° № 16° Φ5' 110° Φ5' 110	direct	14084 Feb 07 01:32			min. Earth dist.	•	26° ∡ ³39'41	3.99439 AU
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conjunction	14091 Jan 26 05:42	18° ≈ 03'47	0°34'58	evening set	14096 Jun 15 16:28	16°932'12	
minimum elong	14091 Jan 26 05:42	18° ≈ 03'47	0°35'46	max. Earth dist.	14096 Jun 26 05:26	18° © 54'33	6.27780 AU
max. Earth dist.	14091 Jan 28 09:53	18° ≈ 33'05	6.24957 AU				
morning rise	14091 Feb 08 16:23	21° ≈ 04'29		conjunction	14096 Jun 28 13:01	19° © 25'58	-0°31'06
	14091 Mar 23 03:41	0° ℋ		minimum elong	14096 Jun 28 13:00	19° © 25'58	0°32'08
retrograde	14091 Jun 13 05:36	9° ∺ 04'27		morning rise	14096 Jul 11 08:43	22° © 19'42	
opposition	14091 Aug 12 17:22	4°) €03'24	0°49'17		14096 Aug 15 22:08	$0^{\circ}\Omega$	
min. Earth dist.	14091 Aug 11 13:51	4°) 12′30	4.33289 AU	retrograde	14096 Nov 13 08:52	10° Ω 32'59	
	14091 Sep 17 20:57	30° R ≈		opposition	14097 Jan 12 19:48	5° Ω 38'45	-0°51'11
direct	14091 Oct 12 08:49	29°≈03'32		min. Earth dist.	14097 Jan 14 09:37	5° Ω 26′29	4.19020 AU
	14091 Nov 06 03:11	0°) €		direct	14097 Mar 14 19:01	0° Ω 39'43	
evening set	14092 Feb 14 19:41	16°) 44'36		arrott	14097 Jun 29 02:11	15° Ω	
e vennig see	11072100 11 17:11	10 7(1130		evening set	14097 Jul 18 18:26	19° Ω 29'39	
conjunction	14092 Feb 28 02:46	19° ¥ 37'46	0°29'40	max. Earth dist.	14097 Jul 29 17:21	22°Ω03'37	6.10296 AU
3	14092 Feb 28 02:40 14092 Feb 28 02:47	19 X 37 40 19° X 37'47	0°29'57	max. Lartii dist.	1409/Jul 29 17.21	22 860331	0.10290 AU
minimum elong				:	14007 I1 21 16-52	220 021124	0924150
max. Earth dist.	14092 Feb 29 05:53	19°) 52'31	6.40571 AU	conjunction	14097 Jul 31 16:53	22° Ω 31'34	
morning rise	14092 Mar 12 08:55	22°) (30′14		minimum elong	14097 Jul 31 16:53	22° Ω 31'34	0°35'34
	14092 Apr 17 18:51	0° Υ		morning rise	14097 Aug 13 15:51	25° Ω 34'02	
retrograde	14092 Jul 12 13:16	9° Ƴ 35′00			14097 Sep 01 22:18	0° m)	
opposition	14092 Sep 11 10:42	4° Ƴ 36'48	0°34'30	retrograde	14097 Dec 19 20:57	15° m 01'48	
min. Earth dist.	14092 Sep 11 01:56	4° Ƴ 39'39	4.46125 AU	opposition	14098 Feb 17 17:22	10° Mp 05′54	-0°48'22
	14092 Oct 27 02:29	30° Ŗ ₩		min. Earth dist.	14098 Feb 18 17:45	9° m ,57'51	4.02165 AU
direct	14092 Nov 12 04:54	29°) 36′15		direct	14098 Apr 18 09:02	5° m 08'44	
	14092 Nov 28 08:24	$0^{\circ}\mathbf{Y}$		evening set	14098 Aug 23 04:45	24° m 52'21	
evening set	14093 Mar 17 00:15	16° Ƴ 45'53		C	C		
<i>3</i>				conjunction	14098 Sep 05 08:10	28° mp 03'08	-0°26'22
conjunction	14093 Mar 30 03:23	19° Ƴ 33'56	0°16'22	minimum elong	14098 Sep 05 08:11	28° Mp 03'09	0°26'30
minimum elong	14093 Mar 30 03:24	19° Υ 33'56	0°16'07	max. Earth dist.	14098 Sep 04 12:45	27° m 51'21	5.95656 AU
max. Earth dist.	14093 Mar 30 02:01	19° Υ 33'12	6.49764 AU	max. Lartii dist.	14098 Sep 13 08:52	0° ⊽	3.93030 AO
			0.49704 AU		-		
morning rise	14093 Apr 12 04:54	22° Y 21'09		morning rise	14098 Sep 18 12:46	1° £ 14'52	
	14093 May 20 01:29	0°8		retrograde	14099 Jan 27 09:43	21° ≏ 45'57	
retrograde	14093 Aug 11 02:04	8° 8 58'36		opposition	14099 Mar 27 17:58	16° ≏ 47'32	
opposition	14093 Oct 11 06:23	4° 8 02'55	0°11'22	min. Earth dist.	14099 Mar 27 19:21	16° ≏ 47'05	3.91289 AU
min. Earth dist.	14093 Oct 11 16:28	3° 8 59'40	4.51219 AU	direct	14099 May 25 06:02	11° ≏ 52'03	
	14093 Nov 17 04:59	30° ŖƳ			14099 Sep 20 23:44	0° M	
direct	14093 Dec 12 15:16	29° Y ′02'09		evening set	14099 Sep 29 16:44	2°M06'30	
	14094 Jan 07 07:17	$_{0\circ}$ 8					
desc. node	14094 Apr 05 17:44	13° 8 51'24		conjunction	14099 Oct 13 01:46	5°M22'56	-0°07'13
	14094 Apr 11 04:40	15° 8		minimum elong	14099 Oct 13 01:45	5°M22'56	0°06'42
evening set	14094 Apr 16 05:31	16° 8 03'54		behind sun begin	14099 Oct 12 17:59	5°ML18'11	
max. Earth dist.	14094 Apr 28 00:45	18° 8 35'08	6.50419 AU	behind sun end	14099 Oct 13 09:32	5°M27'40	
max. Earth dist.	1409471p1 20 00.43	10 033 00	0.50417710	max. Earth dist.	14099 Oct 13 18:34	5°M33'13	5.89668 AU
aamiumatiam	14004 Amr. 20, 05:01	18° 8 50'16	0001104		14099 Oct 15 18:54 14099 Oct 26 12:47	8°M40'25	3.89008 AU
conjunction	14094 Apr 29 05:01			morning rise			
minimum elong	14094 Apr 29 05:00	18° 8 50'16	0°01′48		14099 Nov 22 05:17	15°M	
behind sun begin	14094 Apr 28 20:59	18° 8 45'59		asc. node	14100 Feb 16 22:15	28°M57'53	
behind sun end	14094 Apr 29 13:01	18° 8 54'32		retrograde	14100 Mar 07 03:39	29°M31'03	
morning rise	14094 May 12 02:42	21° 8 35'53		min. Earth dist.	14100 May 04 09:37	24°M37'43	3.90995 AU
	14094 Jun 22 21:52	$\Pi^{\circ}0$		opposition	14100 May 05 09:21	24°M29'42	0°06'57
retrograde	14094 Sep 10 02:30	8° Ⅱ 16′28		direct	14100 Jul 02 10:13	19° M 34'15	
opposition	14094 Nov 10 06:36	3° Ⅲ 22′24	-0°14'37		14100 Sep 25 15:26	0° ⊼ ¹	
min. Earth dist.	14094 Nov 11 10:27	3° Ⅱ 13'30	4.47465 AU	evening set	14100 Nov 06 22:42	9° ∡ ³39'34	
	14094 Dec 09 07:06	30° ₹ 8					
direct	14095 Jan 11 18:51	28° 8 21'43		conjunction	14100 Nov 20 11:31	12° ∡ 755'11	0°15'01
	14095 Feb 14 08:35	0°II		minimum elong	14100 Nov 20 11:30	12° ₹ 755'11	0°15'59
evening set	14095 May 16 11:06	15° Ⅱ 39'45		max. Earth dist.	14100 Nov 22 11:37	13° × ⁷ 24'12	5.95054 AU
max. Earth dist.	14095 May 27 06:48	18° Ⅱ 01'10	6.42457 AU	morning rise	14100 Nov 22 11:37 14100 Dec 04 02:00	16° × 11'26	3.73034 AC
max. Earm dist.	14093 May 27 00.46	18 1101 10	0.42437 AU	morning rise		0°る	
	1400536 20 00 01	100 T2 0102	0010100		14101 Feb 06 06:16		
conjunction	14095 May 29 08:01	18° Ⅱ 28'03		retrograde	14101 Apr 13 05:36	6° る 25'55	4.01.410 : **
minimum elong	14095 May 29 08:00	18° Ⅲ 28'03	0~19'20	min. Earth dist.	14101 Jun 10 04:51	1°る35'06	4.01419 AU
morning rise	14005 Jun 11 02:44	21° Ⅱ 15'57		opposition	14101 Jun 11 17:35	1°る22'39	0°36'43
	14095 Jun 11 03:44				14101 Jun 22 01:06	30°R ✓	
	14095 Jul 23 17:15	0 \circ			14101 Juli 22 01.00	30 KX.	
retrograde		0°ତ 8°ତ29'41		direct	14101 Aug 09 05:59	26° ₹ 25'40	
retrograde opposition	14095 Jul 23 17:15		-0°37'41	direct			
•	14095 Jul 23 17:15 14095 Oct 11 13:59	8°\$29'41 3°\$36'02	-0°37'41 4.35753 AU	direct evening set	14101 Aug 09 05:59	26° х 25′40	
opposition	14095 Jul 23 17:15 14095 Oct 11 13:59 14095 Dec 11 11:53	8°\$29'41 3°\$36'02			14101 Aug 09 05:59 14101 Sep 25 22:34	26°♂25'40 0°♂	
opposition min. Earth dist.	14095 Jul 23 17:15 14095 Oct 11 13:59 14095 Dec 11 11:53 14095 Dec 13 02:04 14096 Jan 11 21:10	8°\$29'41 3°\$36'02 3°\$23'46 30°RII		evening set	14101 Aug 09 05:59 14101 Sep 25 22:34 14101 Dec 14 05:11	26° メ 25'40 0°る 15°る47'09	0°30'39
opposition	14095 Jul 23 17:15 14095 Oct 11 13:59 14095 Dec 11 11:53 14095 Dec 13 02:04	8°\$29'41 3°\$36'02 3°\$23'46			14101 Aug 09 05:59 14101 Sep 25 22:34	26°♂25'40 0°♂	0°30'39 0°31'40

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max. Earth dist. 14101 Dec 30 06:35 19°る31'11 6.09389 AU

morning rise 14102 Jan 10 08:12 22°♂505′10