direct	2600 Jan 26 18:39	12° 8 59'50	max. Earth dist.	2607 May 13 07:52	21° 8 08'04 50.32368 AU
			retrograde	2607 Aug 23 01:03	22° 8 35'54
conjunction	2600 May 04 18:43	14° 8 26'04 -16°09'14	opposition	2607 Nov 14 19:50	21° 8 36'19 -16°07'44
minimum elong	2600 May 04 18:50	14° 8 26'05 16°09'14	min. Earth dist.	2607 Nov 13 22:26	21° 8 37'19 48.40367 AU
max. Earth dist.	2600 May 06 02:30	14° 8 27'54 50.13909 AU	direct	2608 Feb 04 05:24	20° 8 37'51
	2600 May 30 01:53	15° 8			
retrograde	2600 Aug 15 13:35	15° 8 55'59	conjunction	2608 May 12 13:08	22° 8 03'26 -15°26'46
	2600 Nov 03 22:59	15° ₹ ႘	minimum elong	2608 May 12 13:18	22° 8 03'27 15°26'46
min. Earth dist.	2600 Nov 06 05:02	14° 8 57'28 48.24127 AU	max. Earth dist.	2608 May 13 10:47	22° 8 04'40 50.33094 AU
opposition	2600 Nov 07 11:14	14° 8 56'03 -16°46'32	retrograde	2608 Aug 23 05:33	23° 8 32'30
direct	2601 Jan 27 21:14	13° 8 57'20	min. Earth dist.	2608 Nov 14 04:06	22° 8 33'53 48.40802 AU
	2601 Apr 18 16:02	15° 8	opposition	2608 Nov 15 00:19	22° 8 32'56 -16°01'16
			direct	2609 Feb 04 10:12	21° 8 34'28
conjunction	2601 May 05 23:54	15° 8 23'29 -16°04'45			
minimum elong	2601 May 06 00:04	15° 8 23'29 16°04'45	conjunction	2609 May 13 18:15	22° 8 59'58 -15°20'27
max. Earth dist.	2601 May 07 06:50	15° 8 25'15 50.17831 AU	minimum elong	2609 May 13 18:24	22° 8 59'58 15°20'27
retrograde	2601 Aug 16 21:28	16° 8 53'17	max. Earth dist.	2609 May 14 15:48	23° 8 01'11 50.33439 AU
min. Earth dist.	2601 Nov 07 11:52	15° 8 54'45 48.27812 AU	retrograde	2609 Aug 24 07:34	24° 8 28'56
opposition	2601 Nov 08 16:09	15° 8 53'25 -16°41'42	min. Earth dist.	2609 Nov 15 09:51	23° 8 30'16 48.40865 AU
11	2602 Jan 07 02:53	15°R 8	opposition	2609 Nov 16 04:45	23° 8 29'23 -15°54'34
direct	2602 Jan 28 22:46	14° 8 54'47	direct	2610 Feb 05 18:00	22° 8 30'54
	2602 Feb 19 21:12	15° 8			0
	2002100 17 21.12	13 🔾	conjunction	2610 May 14 23:23	23° 8 56'21 -15°13'53
conjunction	2602 May 07 05:21	16° 8 20'51 -16°00'00	minimum elong	2610 May 14 23:34	23° 8 56'21 15°13'52
minimum elong	2602 May 07 05:29	16° 8 20'51 16°00'00	max. Earth dist.	2610 May 15 19:31	23° 8 57'29 50.33454 AU
max. Earth dist.	2602 May 07 03:25 2602 May 08 11:55	16° 8 22'36 50.21424 AU	retrograde	2610 Aug 25 13:49	25° 8 25'14
retrograde	2602 Aug 18 00:03	17° 8 50'33	opposition	2610 Nov 17 08:56	24° 8 25'42 -15°47'37
•	2602 Nov 09 20:42	16° 8 50'46 -16°36'37	min. Earth dist.	2610 Nov 17 08:30 2610 Nov 16 14:07	24° 8 26'35 48.40616 AU
opposition					23° 8 27'13
min. Earth dist.	2602 Nov 08 16:51	16° 8 52'04 48.31123 AU	direct	2611 Feb 06 21:56	23 62/13
direct	2603 Jan 30 04:55	15° 8 52'11	. ,.	2611 M 16 04 27	240 450120 15007104
. ,.	2602 M 00 10 20	170 10111 15055101	conjunction	2611 May 16 04:27	24° 8 52'38 -15°07'04
conjunction	2603 May 08 10:39	17° 8 18'11 -15°55'01	minimum elong	2611 May 16 04:37	24° 8 52'38 15°07'04
minimum elong	2603 May 08 10:48	17° 8 18'12 15°55'01	max. Earth dist.	2611 May 16 23:31	24° 8 53'42 50.33153 AU
max. Earth dist.	2603 May 09 14:59	17° 8 19'49 50.24611 AU	retrograde	2611 Aug 26 21:33	26° 8 21'27
retrograde	2603 Aug 19 03:28	18° 8 47'48	opposition	2611 Nov 18 13:22	25° 8 21'57 -15°40'24
min. Earth dist.	2603 Nov 09 22:59	17° 8 49'19 48.34004 AU	min. Earth dist.	2611 Nov 17 20:22	25° 8 22'44 48.40065 AU
opposition	2603 Nov 11 01:27	17° 8 48'05 -16°31'17	direct	2612 Feb 07 23:40	24° 8 23'29
direct	2604 Jan 31 10:54	16° 8 49'34			
			conjunction	2612 May 16 09:25	25° 8 48'52 -15°00'00
conjunction	2604 May 08 15:59	18° 8 15'30 -15°49'48	minimum elong	2612 May 16 09:37	25° 8 48'52 15°00'00
minimum elong	2604 May 08 16:08	18° 8 15'30 15°49'48	max. Earth dist.	2612 May 17 04:22	25° 8 49'56 50.32571 AU
max. Earth dist.	2604 May 09 19:59	18° 8 17'05 50.27325 AU	retrograde	2612 Aug 27 00:56	27° 8 17'38
retrograde	2604 Aug 19 07:25	19° 8 45'01	opposition	2612 Nov 18 17:40	26° 8 18'10 -15°32'55
min. Earth dist.	2604 Nov 10 05:32	18° 8 46'31 48.36372 AU	min. Earth dist.	2612 Nov 18 00:39	26° 8 18'58 48.39212 AU
opposition	2604 Nov 11 06:13	18° 8 45'21 -16°25'43	direct	2613 Feb 08 04:25	25° 8 19'44
direct	2605 Jan 31 18:13	17° 8 46'52	evening set	2613 May 15 13:41	26° 8 42'21
conjunction	2605 May 09 21:22	19° 8 12'43 -15°44'22	conjunction	2613 May 17 14:25	26° 8 45'07 -14°52'41
minimum elong	2605 May 09 21:32	19° 8 12'43 15°44'23	minimum elong	2613 May 17 14:34	26° 8 45'07 14°52'41
max. Earth dist.	2605 May 10 23:23	19° 8 14'12 50.29530 AU	max. Earth dist.	2613 May 18 07:22	26° 8 46'04 50.31685 AU
retrograde	2605 Aug 20 14:16	20° 8 42'08	morning rise	2613 May 19 15:33	26° 8 47'53
min. Earth dist.	2605 Nov 11 10:34	19° 8 43'39 48.38216 AU	retrograde	2613 Aug 28 04:52	28° 8 13'52
opposition	2605 Nov 12 10:47	19° 8 42'31 -16°19'57	opposition	2613 Nov 19 21:57	27° 8 14'26 -15°25'12
direct	2606 Feb 01 22:19	18° 8 44'03	min. Earth dist.	2613 Nov 19 06:12	27° 8 15'11 48.38052 AU
			direct	2614 Feb 09 09:05	26° 8 16'03
conjunction	2606 May 11 02:43	20° 8 09'48 -15°38'44	evening set	2614 May 15 22:11	27° 8 37'31
minimum elong	2606 May 11 02:52	20° 8 09'49 15°38'43	<i>5</i>		= .
max. Earth dist.	2606 May 12 03:04	20° 8 11'11 50.31196 AU	conjunction	2614 May 18 19:37	27° 8 41'26 -14°45'08
retrograde	2606 Aug 21 21:21	21° 8 39'06	minimum elong	2614 May 18 19:48	27° 8 41'27 14°45'08
opposition	2606 Nov 13 15:28	20° 8 39'31 -16°13'57	max. Earth dist.	2614 May 19 12:30	27° 8 42'23 50.30458 AU
min. Earth dist.		4		•	27° 8 45'23
	2606 Nov 12 17:30	20°840'33 48.39532 AU	morning rise	2614 May 21 17:32	
direct	2607 Feb 03 01:15	19° 8 41'03	retrograde	2614 Aug 29 08:24	29° 8 10'11
	2607.15 12 00 00	210 402142 15022152	opposition	2614 Nov 21 02:16	28° 8 10'48 -15°17'14
conjunction	2607 May 12 08:03	21° 8 06'43 -15°32'52	min. Earth dist.	2614 Nov 20 12:03	28° 8 11'28 48.36506 AU
minimum elong	2607 May 12 08:12	21° 8 06'44 15°32'52	direct	2615 Feb 10 15:53	27° 8 12'27

evening set	2615 May 16 11:11	28° 8 33'02	conjunction	2621 May 25 07:55	4° П 17'17 -13°46'15
	2615.14 20 00 42	200 🗸 27 2 1 1 1 1 1 1 1 1 1	minimum elong	2621 May 25 08:07	4° I 17'18 13°46'14
conjunction	2615 May 20 00:43	28° 8 37'51 -14°37'21	max. Earth dist.	2621 May 25 14:28	4° I 17'39 50.08404 AU
minimum elong	2615 May 20 00:54	28° 8 37'52 14°37'20	morning rise	2621 May 31 17:13	4° Ⅲ 25'56
max. Earth dist.	2615 May 20 15:48	28° 8 38'42 50.28830 A	0	2621 Sep 04 23:27	5° Ⅱ 45'58
morning rise	2615 May 23 14:47	28° 8 42'43	opposition	2621 Nov 27 08:06	4° П 46'39 -14°15'22
	2615 Aug 05 07:48	0°II	min. Earth dist.	2621 Nov 27 02:57	4° Д 46'53 48.11881 AU
retrograde	2615 Aug 30 15:08	0° П 06'36	direct	2622 Feb 16 19:56	3° Ⅱ 48'10
	2615 Sep 25 02:49	30° ₹8	evening set	2622 May 19 19:51	5° Ⅱ 04'38
opposition	2615 Nov 22 06:26	29° 8 07'17 -15°09'03			
min. Earth dist.	2615 Nov 21 16:39	29° 8 07'56 48.34526 A	U conjunction	2622 May 26 13:12	5° Ⅱ 13'43 -13°36'58
direct	2616 Feb 11 19:20	28° 8 08'57	minimum elong	2622 May 26 13:22	5° Ⅱ 13'44 13°36'58
evening set	2616 May 16 02:34	29° 8 28'48	max. Earth dist.	2622 May 26 19:23	5° Ⅱ 14'04 50.03458 AU
			morning rise	2622 Jun 02 07:20	5° Ⅲ 22'51
conjunction	2616 May 20 05:55	29° 8 34'24 -14°29'21	retrograde	2622 Sep 06 03:55	6° Ⅱ 42'23
minimum elong	2616 May 20 06:06	29° 8 34'24 14°29'21	opposition	2622 Nov 28 12:14	5° Ⅱ 43'03 -14°05'38
max. Earth dist.	2616 May 20 19:23	29° 8 35'09 50.26717 A	U min. Earth dist.	2622 Nov 28 07:11	5° Ⅱ 43'17 48.06628 AU
morning rise	2616 May 24 09:52	29° 8 40'02	direct	2623 Feb 17 23:31	4° Ⅱ 44'31
C	2616 Jun 08 09:39	0° Ⅱ	evening set	2623 May 20 16:26	6° Ⅱ 00'33
retrograde	2616 Aug 30 22:20	1° Ⅱ 03'09	C	•	
opposition	2616 Nov 22 10:52	0°П03'52 -15°00'38	conjunction	2623 May 27 18:15	6° Ⅱ 10'07 -13°27'26
min. Earth dist.	2616 Nov 21 23:26	0° П 04'24 48.32035 А	•	2623 May 27 18:27	6° Ц 10'08 13°27'26
iiiii. Lartii dist.	2616 Nov 25 21:35	30°R 8	max. Earth dist.	2623 May 27 22:28	6° П 10'21 49.98184 AU
direct	2617 Feb 11 21:39	29° 8 05'33	morning rise	2623 Jun 03 21:04	6° Ⅱ 19'44
direct	2617 Apr 28 01:17	0°II	retrograde	2623 Sep 07 07:50	7° Ⅱ 38'48
	-	0° П 24'43	•	1	6° П 39'26 -13°55'38
evening set	2617 May 16 19:32	0°Щ2443	opposition	2623 Nov 29 16:26	
	0/153/ 01 11 11	00H21100 11021100	min. Earth dist.	2623 Nov 29 12:36	6° I 39'37 48.01074 AU
conjunction	2617 May 21 11:11	0° П 31'00 -14°21'09	direct	2624 Feb 19 03:57	5° Ⅱ 40'52
minimum elong	2617 May 21 11:22	0° Д 31'01 14°21'08	evening set	2624 May 20 13:17	6° Ⅱ 56′29
max. Earth dist.	2617 May 21 23:54	0° Д 31'44 50.24085 А			_
morning rise	2617 May 26 03:24	0° Ⅲ 37′20	conjunction	2624 May 27 23:29	7° Ⅱ 06'31 -13°17'40
retrograde	2617 Sep 01 03:11	1° Ⅱ 59'44	minimum elong	2624 May 27 23:40	7° Ⅱ 06'32 13°17'40
opposition	2617 Nov 23 15:10	1° I 00′29 -14°52′01	max. Earth dist.	2624 May 28 03:40	7° Ⅱ 06'45 49.92617 AU
min. Earth dist.	2617 Nov 23 04:23	1° Ⅱ 00′59 48.28990 A	U morning rise	2624 Jun 04 10:34	7° Ⅱ 16'36
direct	2618 Feb 13 01:06	0° Ⅱ 02'09	retrograde	2624 Sep 07 09:24	8° Ⅲ 35′14
evening set	2618 May 17 13:36	1°Ⅲ20′43	opposition	2624 Nov 29 20:42	7° Ⅱ 35'51 -13°45'23
			min. Earth dist.	2624 Nov 29 17:58	7° Ⅱ 35'58 47.95221 AU
conjunction	2618 May 22 16:25	1° Ⅲ 27'39 -14°12'44	direct	2625 Feb 19 11:31	6° Ⅲ 37'14
minimum elong	2618 May 22 16:36	1° Ⅲ 27'39 14°12'45	evening set	2625 May 21 10:32	7° Ⅱ 52'29
max. Earth dist.	2618 May 23 02:28	1° Ⅲ 28'13 50.20895 A	U		
morning rise	2618 May 27 19:57	1° 耳 34′36	conjunction	2625 May 29 04:36	8° Ⅲ 02'58 -13°07'40
retrograde	2618 Sep 02 07:57	2° Ⅱ 56′21	minimum elong	2625 May 29 04:49	8° I 102'59 13°07'40
opposition	2618 Nov 24 19:24	1° I 57′06 -14°43′11	max. Earth dist.	2625 May 29 07:22	8° Ⅱ 03'07 49.86767 AU
min. Earth dist.	2618 Nov 24 10:21	1° Д 57'31 48.25408 А		2625 Jun 05 23:42	8° Ⅱ 13'31
direct	2619 Feb 14 05:27	0° Ⅱ 58'45	retrograde	2625 Sep 08 14:53	9° Ⅲ 31'43
evening set	2619 May 18 08:25	2° Ⅱ 16'44	opposition	2625 Dec 01 00:55	8° Д 32'20 -13°34'53
e vennig see	2017 1114) 10 00.20	2 2.0	min. Earth dist.	2625 Nov 30 22:19	8° Ц 32'27 47.89067 AU
conjunction	2619 May 23 21:45	2° Ⅱ 24'15 -14°04'08	direct	2626 Feb 20 16:02	7° Ц 33'42
minimum elong	2619 May 23 21:56	2° I [24'16 14°04'07	evening set	2626 May 22 08:02	8° П 48'35
max. Earth dist.	2619 May 24 07:15	2° I I24'47 50.17180 A	•	2020 May 22 00.02	0 11 +033
morning rise	2619 May 29 11:47	2° I [31'48	conjunction	2626 May 30 09:56	8° Ц 59'30 -12°57'25
Č	•	3°II52'57	v	•	8° П 59'31 12° 57'24
retrograde	2619 Sep 03 09:32		minimum elong	2626 May 30 10:07	
opposition	2619 Nov 25 23:41	2° ∏ 53'41 -14°34'09	max. Earth dist.	2626 May 30 11:22	8° П 59'35 49.80578 AU
min. Earth dist.	2619 Nov 25 16:08	2° П 54'02 48.21315 A	ū	2626 Jun 07 12:55	9° Ⅱ 10'30
direct	2620 Feb 15 13:03	1° Ⅱ 55'17	retrograde	2626 Sep 09 21:53	10° Ⅱ 28′20
evening set	2620 May 18 03:41	3° Ⅱ 12'44	opposition	2626 Dec 02 05:09	9° I 128'56 -13°24'08
			min. Earth dist.	2626 Dec 02 04:43	9° Ⅱ 28'57 47.82557 AU
conjunction	2620 May 24 02:44	3° П 20'48 -13°55'18	direct	2627 Feb 21 19:10	8° Ⅱ 30'17
minimum elong	2620 May 24 02:55	3° II 20'48 13°55'18	evening set	2627 May 23 05:58	9° Ⅱ 44'50
max. Earth dist.	2620 May 24 10:38	3° I [21'14 50.13002 A			
morning rise	2620 May 30 02:33	3° Ⅱ 28'55	conjunction	2627 May 31 15:24	9° Ⅱ 56'11 -12°46'56
retrograde	2620 Sep 03 14:59	4° Ⅱ 49'29	minimum elong	2627 May 31 15:36	9° Ⅱ 56'12 12°46'57
opposition	2620 Nov 26 03:53	3° I I50'12 -14°24'53	max. Earth dist.	2627 May 31 16:26	9° 耳 56'15 49.74017 AU
min. Earth dist.	2620 Nov 25 20:44	3° Ц 50'32 48.16790 А	U morning rise	2627 Jun 09 01:48	10° Ⅱ 07'37
direct	2621 Feb 15 18:14	2° Ⅱ 51'45	retrograde	2627 Sep 11 04:06	11° Ⅲ 25′04
evening set	2621 May 18 23:30	4° Ⅱ 08'42	opposition	2627 Dec 03 09:25	10° Ⅲ 25'40 -13°13'10
-	-		min. Earth dist.	2627 Dec 03 09:26	10° Ⅱ 25'40 47.75629 AU

morning rise

2634 Jun 17 16:19

16°**Ⅱ**49'52

conjunction	2641 Jun 14 00:22	23° Ц 22'35 -9°56'32	min. Earth dist.	2647 Dec 23 08:41	29° 耳 50′04 45.50020 AU
minimum elong	2641 Jun 14 00:33	23° II 22'35 9°56'31	direct	2648 Mar 13 01:52	28° Ⅲ 50′34
morning rise	2641 Jun 26 02:34	23° Ⅲ 39′12		2648 Jun 06 07:35	0°95
retrograde	2641 Sep 24 09:32	24° Ⅲ 53'12	evening set	2648 Jun 07 12:56	0° 5 01'40
opposition	2641 Dec 16 02:07	23° Ⅲ 53′08 -10°14′5	0		
min. Earth dist.	2641 Dec 16 18:54	23° II 52'20 46.3457	1 AU conjunction	2648 Jun 20 23:32	0°\$20'24 -8°14'01
direct	2642 Mar 07 17:06	22° ∏ 53′24	minimum elong	2648 Jun 20 23:41	0°520'25 8°14'02
evening set	2642 Jun 03 00:57	24° Ⅱ 04'54	max. Earth dist.	2648 Jun 19 20:59	0°9518'51 47.40378 AU
			morning rise	2648 Jul 04 11:39	0° 5 39'14
conjunction	2642 Jun 15 07:00	24° Ⅱ 21'46 -9°42'36	retrograde	2648 Oct 01 09:14	1° 9 52'26
minimum elong	2642 Jun 15 07:11	24° Ⅱ 21'46 9°42'36	opposition	2648 Dec 22 15:48	0° 9 51'36 -8°27'32
max. Earth dist.	2642 Jun 14 12:44	24° Ⅲ 20'42 48.2518	6 AU min. Earth dist.	2648 Dec 23 15:51	0°950'26 45.34809 AU
morning rise	2642 Jun 27 14:18	24° Ⅲ 38'43		2649 Feb 13 08:47	30°RⅡ
retrograde	2642 Sep 25 17:37	25° Ⅱ 52'33	direct	2649 Mar 14 04:51	29° Ⅱ 50'51
opposition	2642 Dec 17 07:08	24° I 52′24 -10°00′1	6	2649 Apr 12 00:50	0° ©
min. Earth dist.	2642 Dec 18 00:24	24° I 151'35 46.2150	8 AU evening set	2649 Jun 08 15:38	1° 5 01'59
direct	2643 Mar 08 20:12	23° Ⅲ 52'32	max. Earth dist.	2649 Jun 21 04:16	1°519'28 47.25168 AU
evening set	2643 Jun 04 02:31	25° Ⅱ 03'56			
			conjunction	2649 Jun 22 06:47	1°\$21'01 -7°58'22
conjunction	2643 Jun 16 13:31	25° Ⅱ 21'07 -9°28'26	· ·	2649 Jun 22 06:57	1°\$21'02 7°58'22
minimum elong	2643 Jun 16 13:42	25° Ⅱ 21'08 9°28'26	0	2649 Jul 05 23:05	1° © 40'09
max. Earth dist.	2643 Jun 15 16:45	25° Ⅱ 19'55 48.1202	Č	2649 Oct 02 15:28	2° © 53'19
morning rise	2643 Jun 29 02:04	25° Ⅱ 38′24	opposition	2649 Dec 23 21:40	1°952'23 -8°11'08
retrograde	2643 Sep 27 01:14	26° ∏ 52'05	min. Earth dist.	2649 Dec 24 22:31	1° 9 51'10 45.19321 AU
opposition	2643 Dec 18 12:27	25° I 51′50 -9°45′27		2650 Mar 15 11:45	0° 9 51'31
min. Earth dist.	2643 Dec 19 07:34	25° I 50'55 46.0797	C	2650 Jun 09 18:52	2° © 02'42
direct	2644 Mar 09 00:14	24° ∏ 51'49	max. Earth dist.	2650 Jun 22 09:55	2° © 20'22 47.09680 AU
evening set	2644 Jun 04 03:58	26° Ⅲ 03′08			
		_	conjunction	2650 Jun 23 14:06	2°\$22'02 -7°42'28
conjunction	2644 Jun 16 20:07	26° Ⅲ 20'38 -9°14'03	· ·	2650 Jun 23 14:15	2°\$22'02 7°42'28
minimum elong	2644 Jun 16 20:17	26° Ⅲ 20'38 9°14'03	Č	2650 Jul 07 10:43	2°5641'28
max. Earth dist.	2644 Jun 15 22:55	26° Ⅱ 19'24 47.9840	Č	2650 Oct 03 21:35	3°954'37
morning rise	2644 Jun 29 13:30	26° Ⅲ 38'13	opposition	2650 Dec 25 03:30	2°953'37 -7°54'28
retrograde	2644 Sep 27 04:49	27° Ⅲ 51'46	min. Earth dist.	2650 Dec 26 04:59	2°S52'22 45.03541 AU
opposition	2644 Dec 18 17:47	26° I 51'24 -9°30'23		2651 Mar 16 18:20	1°952'37
min. Earth dist.	2644 Dec 19 14:03	26°II50'25 45.9399	5 AU evening set	2651 Jun 10 22:17	3° © 03'52
direct	2645 Mar 10 08:16	25° I 51'14		2651 7 24 21 22	20002120 502410
evening set	2645 Jun 05 05:59	27° I I02'28	conjunction	2651 Jun 24 21:39	3°523'30 -7°26'18
max. Earth dist.	2645 Jun 17 03:56	27° Ⅱ 18'57 47.8439	0	2651 Jun 24 21:49	3°523'30 7°26'19
. ,.	2645 1 10 02 50	270 T 20117 0050125	max. Earth dist.	2651 Jun 23 16:08	3°521'45 46.93850 AU
conjunction	2645 Jun 18 02:50	27° I I20'17 -8°59'25	C	2651 Jul 08 22:19	3°5543'14
minimum elong morning rise	2645 Jun 18 03:01	27° I I20'18 8°59'25	Č	2651 Oct 05 04:33	4°956'25
retrograde	2645 Jul 01 01:08 2645 Sep 28 09:56	27°Ⅲ38'11 28°Ⅲ51'36	opposition min. Earth dist.	2651 Dec 26 09:42	3°955'19 -7°37'32 3°953'58 44.87393 AU
opposition	2645 Dec 19 23:00	28 H 51 30 27° H 51'07 -9°15'04		2651 Dec 27 13:11 2652 Mar 17 00:56	2°954'12
min. Earth dist.	2645 Dec 20 19:48	27° I 50'07 45.7965		2652 Jun 11 01:55	4°905'31
direct	2646 Mar 11 15:03	26° I 50'48	max. Earth dist.	2652 Jun 23 23:09	4°\$23'40 46.77630 AU
evening set	2646 Jun 06 08:06	28° I I01'59	max. Earth dist.	2032 Juli 23 23.09	4 3 23 40 40.77030 AC
max. Earth dist.	2646 Jun 18 09:32	28° I 18'41 47.7001	0 AU conjunction	2652 Jun 25 05:18	4°\$25'27 -7°09'54
max. Lartii dist.	2040 Juli 10 07.32	20 11041 47.7001	minimum elong	2652 Jun 25 05:16	4°\$25'28 7°09'53
conjunction	2646 Jun 19 09:44	28° Ⅲ 20'06 -8°44'32	•	2652 Jul 09 09:51	4° 5 45'29
minimum elong	2646 Jun 19 09:54	28° I I20'07 8°44'33	U	2652 Oct 05 14:03	5°\$58'43
morning rise	2646 Jul 02 12:46	28° I [38'19	opposition	2652 Dec 26 15:57	4°\$57'31 -7°20'21
retrograde	2646 Sep 29 16:21	29° Д 51'39	min. Earth dist.	2652 Dec 27 19:48	4°\$56'08 44.70812 AU
opposition	2646 Dec 21 04:35	28° Д 51'02 -8°59'30		2653 Mar 18 05:08	3°\$56'15
min. Earth dist.	2646 Dec 22 03:17	28°II49'56 45.6498		2653 Jun 12 06:11	5° © 07'40
direct	2647 Mar 12 20:57	27° I I50'34	max. Earth dist.	2653 Jun 25 04:30	5°\$25'57 46.60933 AU
evening set	2647 Jun 07 10:20	29° Ⅱ 01'42			
			conjunction	2653 Jun 26 13:18	5°\$27'53 -6°53'14
conjunction	2647 Jun 20 16:35	29° Ⅲ 20'07 -8°29'24	·	2653 Jun 26 13:16	5°\$27'54 6°53'15
minimum elong	2647 Jun 20 16:46	29° II 20'08 8°29'24	•	2653 Jul 10 21:47	5°9548'12
max. Earth dist.	2647 Jun 19 16:08	29° I 18'42 47.5533	_	2653 Oct 07 00:07	7° 5 01'29
morning rise	2647 Jul 04 00:04	29° I I38'39	opposition	2653 Dec 27 22:23	6°\$00'10 -7°02'54
	2647 Jul 20 02:51	0° 5	min. Earth dist.	2653 Dec 27 22:23 2653 Dec 29 04:28	5°958'41 44.53748 AU
retrograde	2647 Sep 30 23:40	0° 9 51'54	direct	2654 Mar 19 09:04	4°958'45
	2647 Dec 14 19:31	30°RⅡ	evening set	2654 Jun 13 10:38	6° © 10'16
opposition	2647 Dec 14 19:91 2647 Dec 22 10:05	29° Д 51'10 -8°43'39	_	_00.0um 15 10.50	J = 1010
-FF		.,,			

conjunction	2654 Jun 27 21:36	6°\$30'46 -6°36'21	direct	2661 Mar 26 11:23	12° © 26'41
minimum elong	2654 Jun 27 21:45	6°\$30'47 6°36'20	evening set	2661 Jun 20 01:46	13° © 39'16
max. Earth dist.	2654 Jun 26 12:07	6°\$28'47 46.43736 A	· ·	2661 Jul 03 16:30	13°S59'03 45.12493 AU
morning rise	2654 Jul 12 09:35	6°\$51'22			
retrograde	2654 Oct 08 07:04	8°\$04'41	conjunction	2661 Jul 05 10:42	14°901'38 -4°30'55
opposition	2654 Dec 29 05:02	7°\$03'14 -6°45'11	minimum elong	2661 Jul 05 10:48	14°501'39 4°30'56
min. Earth dist.	2654 Dec 30 12:11	7°501'42 44.36175 A	•	2661 Jul 20 20:24	14°9524'06
direct	2655 Mar 20 17:31	6° © 01'39	retrograde	2661 Oct 15 17:06	15°938'08
evening set	2655 Jun 14 15:20	7° © 13′16	opposition	2662 Jan 05 07:21	14°935'27 -4°33'34
max. Earth dist.	2655 Jun 27 18:08	7°\$31'55 46.26055 A	**	2662 Jan 06 21:47	14°533'30 43.03121 AU
			direct	2662 Mar 27 21:53	13°932'22
conjunction	2655 Jun 29 05:44	7°\$34'03 -6°19'12	evening set	2662 Jun 21 08:48	14°9545'12
minimum elong	2655 Jun 29 05:53	7°\$34'04 6°19'13	max. Earth dist.	2662 Jul 05 01:37	15°905'12 44.92720 AU
morning rise	2655 Jul 13 21:22	7° 9 54'56			
retrograde	2655 Oct 09 14:05	9° © 08′17	conjunction	2662 Jul 06 20:17	15°907'50 -4°11'56
opposition	2655 Dec 30 11:44	8°906'41 -6°27'13	minimum elong	2662 Jul 06 20:24	15° 5 07'50 4°11'57
min. Earth dist.	2655 Dec 31 19:49	8°905'06 44.18145 A		2662 Jul 22 08:28	15°930'32
direct	2656 Mar 21 01:54	7° 5 04'54	retrograde	2662 Oct 17 01:53	16°9544'46
evening set	2656 Jun 14 20:18	8°छ16'38	opposition	2663 Jan 06 15:16	15°9541'56 -4°13'37
max. Earth dist.	2656 Jun 28 01:15	8°\$35'29 46.07920 A		2663 Jan 08 05:40	15°539'59 42.83136 AU
			direct	2663 Mar 29 05:57	14°938'39
conjunction	2656 Jun 29 14:12	8°\$37'42 -6°01'48	evening set	2663 Jun 22 16:10	15° 9 51'45
minimum elong	2656 Jun 29 14:20	8°\$37'43 6°01'48	max. Earth dist.	2663 Jul 06 09:16	16°9511'52 44.72682 AU
morning rise	2656 Jul 14 09:10	8°\$58'51			
retrograde	2656 Oct 09 20:31	10°\$12'17	conjunction	2663 Jul 08 05:55	16°9514'38 -3°52'41
opposition	2656 Dec 30 18:37	9°\$10'30 -6°08'59	minimum elong	2663 Jul 08 06:01	16°9514'38 3°52'41
min. Earth dist.	2657 Jan 01 04:42	9°508'48 43.99696 A	Č	2663 Jul 23 20:29	16°937'34
direct	2657 Mar 22 10:05	8°\$08'31	retrograde	2663 Oct 18 13:28	17°952'03
evening set	2657 Jun 16 01:32	9°\$20'22	opposition	2664 Jan 07 23:32	16°549'02 -3°53'23
max. Earth dist.	2657 Jun 29 09:09	9°\$39'26 45.89406 A	11	2664 Jan 09 15:57	16°546'59 42.62872 AU
			direct	2664 Mar 29 11:12	15° © 45'33
conjunction	2657 Jun 30 22:48	9°\$41'42 -5°44'09	evening set	2664 Jun 22 23:58	16°958'57
minimum elong	2657 Jun 30 22:56	9°\$41'42 5°44'10	max. Earth dist.	2664 Jul 06 19:12	17°519'17 44.52329 AU
morning rise	2657 Jul 15 21:00	10°\$03'07			
retrograde	2657 Oct 11 04:43	11° © 16'38	conjunction	2664 Jul 08 16:05	17°522'04 -3°33'10
opposition	2658 Jan 01 01:33	10°\$14'41 -5°50'28	minimum elong	2664 Jul 08 16:11	17°522'05 3°33'11
min. Earth dist.	2658 Jan 02 11:45	10°512'58 43.80892 A	_	2664 Jul 24 08:38	17°9545'15
direct	2658 Mar 23 17:03	9° © 12'28	retrograde	2664 Oct 19 00:19	18° © 59'59
evening set	2658 Jun 17 07:13	10°\$24'28	opposition	2665 Jan 08 07:53	17°\$56'48 -3°32'52
max. Earth dist.	2658 Jun 30 15:40	10°9543'39 45.70548 A		2665 Jan 10 00:56	17°954'42 42.42254 AU
			direct	2665 Mar 30 19:30	16°953'05
conjunction	2658 Jul 02 07:29	10°546'04 -5°26'15	evening set	2665 Jun 24 08:26	18° © 06'49
minimum elong	2658 Jul 02 07:37	10°546'04 5°26'14	max. Earth dist.	2665 Jul 08 03:12	18°\$27'13 44.31592 AU
morning rise	2658 Jul 17 08:53	11° © 07'45	man. Dartii digt.	2000 001 00 00.12	10 027 15 11.51072110
retrograde	2658 Oct 12 16:28	12° © 21'22	conjunction	2665 Jul 10 02:27	18°\$30'10 -3°13'24
opposition	2659 Jan 02 08:41	11°519'13 -5°31'40	minimum elong	2665 Jul 10 02:32	18°\$30'10 3°13'23
min. Earth dist.	2659 Jan 03 20:38	11°517'25 43.61791 A	Č	2665 Jul 25 21:09	18°953'35
direct	2659 Mar 24 20:55	10°516'47	retrograde	2665 Oct 20 12:43	20°\$08'34
evening set	2659 Jun 18 13:01	11°528'57	opposition	2666 Jan 09 16:37	19°505'11 -3°12'04
max. Earth dist.	2659 Jul 02 00:44	11°548'25 45.51417 A		2666 Jan 11 10:59	19°503'01 42.21238 AU
max. Earth dist.	2037 341 02 00.11	11 - 10 23 13.31117 11	direct	2666 Apr 01 03:34	18°501'14
conjunction	2659 Jul 03 16:27	11° © 50'49 -5°08'05	evening set	2666 Jun 25 17:14	19° © 15'18
minimum elong		11 3047 3 00 05	-	2000 Juli 25 17.14	
morning rise	2659 Iul 03 16·34	11°9550'49 5°08'05	max Earth dist	2666 Jul 09 12:50	19°935'52 44 10416 AU
	2659 Jul 03 16:34	11°950'49 5°08'05	max. Earth dist.	2666 Jul 09 12:50	19° © 35'52 44.10416 AU
-	2659 Jul 18 20:37	12° © 12'45			
retrograde	2659 Jul 18 20:37 2659 Oct 14 01:52	12°©12'45 13°©26'29	conjunction	2666 Jul 11 13:12	19° © 38'54 -2°53'22
retrograde opposition	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04	12°\$12'45 13°\$26'29 12°\$24'10 -5°12'36	conjunction minimum elong	2666 Jul 11 13:12 2666 Jul 11 13:17	19°\$38'54 -2°53'22 19°\$38'54 2°53'22
retrograde opposition min. Earth dist.	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al	conjunction minimum elong U morning rise	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33
retrograde opposition min. Earth dist. direct	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30	conjunction minimum elong U morning rise retrograde	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48
retrograde opposition min. Earth dist. direct evening set	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52	conjunction minimum elong U morning rise retrograde opposition	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00
retrograde opposition min. Earth dist. direct	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist.	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00 20°\$11'56 41.99785 AU
retrograde opposition min. Earth dist. direct evening set max. Earth dist.	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10 2660 Jul 02 07:58	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52 12°S53'28 45.32063 Al	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist. direct	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45 2667 Apr 02 13:50	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00 20°\$11'56 41.99785 AU 19°\$10'00
retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10 2660 Jul 02 07:58	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52 12°S53'28 45.32063 Al 12°S55'59 -4°49'38	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist. direct evening set	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45 2667 Apr 02 13:50 2667 Jun 27 02:28	19°@38'54 -2°53'22 19°@38'54 2°53'22 20°@02'33 21°@17'48 20°@14'13 -2°51'00 20°@11'56 41.99785 AU 19°@10'00 20°@24'25
retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10 2660 Jul 02 07:58 2660 Jul 04 01:19 2660 Jul 04 01:26	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52 12°S53'28 45.32063 Al 12°S55'59 -4°49'38 12°S56'00 4°49'38	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist. direct	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45 2667 Apr 02 13:50	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00 20°\$11'56 41.99785 AU 19°\$10'00
retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10 2660 Jul 02 07:58 2660 Jul 04 01:19 2660 Jul 04 01:26 2660 Jul 19 08:27	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52 12°S53'28 45.32063 Al 12°S55'59 -4°49'38 12°S56'00 4°49'38 13°S18'11	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist. direct evening set max. Earth dist.	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45 2667 Apr 02 13:50 2667 Jun 27 02:28 2667 Jul 10 22:31	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00 20°\$11'56 41.99785 AU 19°\$10'00 20°\$24'25 20°\$45'07 43.88834 AU
retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10 2660 Jul 02 07:58 2660 Jul 04 01:19 2660 Jul 04 01:26 2660 Jul 19 08:27 2660 Oct 14 11:03	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52 12°S53'28 45.32063 Al 12°S55'59 -4°49'38 12°S56'00 4°49'38 13°S18'11 14°S32'04	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist. direct evening set max. Earth dist. conjunction	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45 2667 Apr 02 13:50 2667 Jul 27 02:28 2667 Jul 10 22:31	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00 20°\$11'56 41.99785 AU 19°\$10'00 20°\$24'25 20°\$45'07 43.88834 AU 20°\$48'14 -2°33'04
retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	2659 Jul 18 20:37 2659 Oct 14 01:52 2660 Jan 03 16:04 2660 Jan 05 04:24 2660 Mar 25 03:58 2660 Jun 18 19:10 2660 Jul 02 07:58 2660 Jul 04 01:19 2660 Jul 04 01:26 2660 Jul 19 08:27	12°S12'45 13°S26'29 12°S24'10 -5°12'36 12°S22'20 43.42439 Al 11°S21'30 12°S33'52 12°S53'28 45.32063 Al 12°S55'59 -4°49'38 12°S56'00 4°49'38 13°S18'11	conjunction minimum elong U morning rise retrograde opposition U min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	2666 Jul 11 13:12 2666 Jul 11 13:17 2666 Jul 27 09:32 2666 Oct 21 22:13 2667 Jan 11 01:36 2667 Jan 12 21:45 2667 Apr 02 13:50 2667 Jun 27 02:28 2667 Jul 10 22:31	19°\$38'54 -2°53'22 19°\$38'54 2°53'22 20°\$02'33 21°\$17'48 20°\$14'13 -2°51'00 20°\$11'56 41.99785 AU 19°\$10'00 20°\$24'25 20°\$45'07 43.88834 AU

retrograde	2667 Oct 23 07:21	22°\$27'40	conjunction	2674 Jul 21 12:04	29°512'17 -0°03'46
opposition	2668 Jan 12 10:44	21°523'51 -2°29'38	minimum elong	2674 Jul 21 12:04	29°512'17 0°03'47
min. Earth dist.	2668 Jan 14 07:12	21°521'33 41.77944 AU	behind sun begin	2674 Jul 21 05:36	29° © 11'53
direct	2668 Apr 02 23:56	20°519'22	behind sun end	2674 Jul 21 18:31	29°512'41
evening set	2668 Jun 27 12:04	21° © 34'09	morning rise	2674 Aug 06 15:37	29°537'30
max. Earth dist.	2668 Jul 11 07:26	21°954'55 43.66859 AU	Ü	2674 Aug 21 22:02	$0^{\circ}\Omega$
			asc. node	2674 Sep 20 10:30	0° Ω 35'25
conjunction	2668 Jul 13 11:09	21° © 58'11 -2°12'31	retrograde	2674 Oct 31 19:34	0° Ω 55'55
minimum elong	2668 Jul 13 11:13	21° © 58'11 2°12'31	C	2675 Jan 12 22:48	30° №
morning rise	2668 Jul 29 10:37	22° © 22'16	opposition	2675 Jan 20 10:30	29°\$50'25 0°07'48
retrograde	2668 Oct 23 18:52	23° © 38'09	min. Earth dist.	2675 Jan 22 13:01	29°5047'43 40.18050 AU
opposition	2669 Jan 12 20:15	22°\$34'06 -2°08'00	direct	2675 Apr 11 20:29	28°\$43'56
min. Earth dist.	2669 Jan 14 18:47	22°531'40 41.55745 AU	direct	2675 Jul 05 10:23	0° Ω
direct	2669 Apr 04 07:43	21° 5 29'19	evening set	2675 Jul 06 21:31	0° Ω 02'14
evening set	2669 Jun 28 22:09	22° 9 44'31	max. Earth dist.	2675 Jul 20 14:52	0°Ω23'44 42.06462 AU
max. Earth dist.	2669 Jul 12 18:53	23°905'27 43.44551 AU	max. Earth dist.	2073 Jul 20 14.32	0 0623 44 42.00402 AU
max. Earth dist.	2009 Jul 12 18.33	23 3 0327 43.44331 AU	conjunction	2675 Jul 23 01:19	0° Ω 27'35 0°18'41
agniumation	2669 Jul 14 22:42	23°\$08'45 -1°51'42	•	2675 Jul 23 01:19 2675 Jul 23 01:18	0°Ω27'35 0°18'41
conjunction			minimum elong		
minimum elong	2669 Jul 14 22:45	23°508'46 1°51'41	morning rise	2675 Aug 08 04:55	0° Ω 52'57
morning rise	2669 Jul 30 23:17	23°533'02	retrograde	2675 Nov 02 12:46	2° Ω 11'56
retrograde	2669 Oct 25 07:02	24°5549'16	opposition	2676 Jan 21 22:03	1° Ω 06'13 0°31'25
opposition	2670 Jan 14 05:47	23°5644'58 -1°46'05	min. Earth dist.	2676 Jan 24 02:03	1° Ω 03'25 39.94568 AU
min. Earth dist.	2670 Jan 16 04:36	23°5642'31 41.33244 AU		2676 Apr 05 11:40	30° ₹ 5
direct	2670 Apr 05 16:07	22° © 39'54	direct	2676 Apr 12 04:10	29°959'26
evening set	2670 Jun 30 08:52	23° © 55'32		2676 Apr 18 23:48	0 $^{\circ}\Omega$
max. Earth dist.	2670 Jul 14 04:27	24°5516'31 43.21966 AU	evening set	2676 Jul 07 11:20	1° Ω 18′24
			max. Earth dist.	2676 Jul 21 04:27	1° Ω 40'01 41.82843 AU
conjunction	2670 Jul 16 10:22	24° © 19'58 -1°30'37			
minimum elong	2670 Jul 16 10:24	24° © 19'58 1°30'38	conjunction	2676 Jul 23 15:05	1° Ω 43'55 0°41'17
morning rise	2670 Aug 01 12:07	24°9544'27	minimum elong	2676 Jul 23 15:04	1° Ω 43'55 0°41'17
retrograde	2670 Oct 26 20:34	26° 5 01'02	morning rise	2676 Aug 08 18:13	2° Ω 09'25
opposition	2671 Jan 15 15:44	24°956'30 -1°23'52	retrograde	2676 Nov 03 03:25	3° Ω 29'00
min. Earth dist.	2671 Jan 17 15:49	24°553'58 41.10513 AU	opposition	2677 Jan 22 10:03	2° Ω 23'01 0°55'17
direct	2671 Apr 07 00:18	23°951'08	min. Earth dist.	2677 Jan 24 15:05	2° Ω 20'09 39.70823 AU
evening set	2671 Jul 01 19:44	25° © 07'14	direct	2677 Apr 13 15:46	1° Ω 15'57
max. Earth dist.	2671 Jul 15 16:01	25°\$28'23 42.99156 AU	evening set	2677 Jul 09 02:09	2° Ω 35'36
			max. Earth dist.	2677 Jul 22 16:54	2° Ω 57'13 41.58938 AU
conjunction	2671 Jul 17 22:14	25°\$31'52 -1°09'17			
minimum elong	2671 Jul 17 22:16	25°\$31'52 1°09'16	conjunction	2677 Jul 25 05:18	3°Ω01'15 1°04'08
morning rise	2671 Aug 03 00:38	25°\$56'32	minimum elong	2677 Jul 25 05:16	3° Ω 01'15 1°04'08
retrograde	2671 Oct 28 07:07	27°\$13'32	morning rise	2677 Aug 10 07:59	3° Ω 26'54
opposition	2672 Jan 17 02:02	26°\$08'44 -1°01'22	retrograde	2677 Nov 04 18:27	4° Ω 47'04
min. Earth dist.	2672 Jan 19 03:01	26°\$06'09 40.87590 AU	opposition	2678 Jan 23 22:16	3°Ω40'50 1°19'26
direct	2672 Apr 07 12:56	25°\$03'05	min. Earth dist.	2678 Jan 26 04:08	3°Ω37'55 39.46781 AU
evening set	2672 Jul 02 07:18	26°\$19'40	direct	2678 Apr 15 04:42	2° Ω 33'27
max. Earth dist.	2672 Jul 16 03:22	26°\$40'56 42.76192 AU	evening set	2678 Jul 10 17:35	3° Ω 53'49
max. Earm dist.	20/2 Jul 10 03.22	20 30 40 30 42.70192 AU	max. Earth dist.	2678 Jul 24 05:58	4°Ω15'25 41.34688 AU
conjunction	2672 Jul 18 10:27	26°544'30 -0°47'41	max. Earth dist.	2076 Jul 24 03.36	4 0613 23 41.34000 AU
minimum elong	2672 Jul 18 10:28	26°\$44'30 0°47'42	conjunction	2678 Jul 26 20:01	4°Ω19'36 1°27'13
morning rise	2672 Aug 03 13:34	27°\$09'21	minimum elong	2678 Jul 26 19:59	4°Ω19'36 1°27'13
retrograde	2672 Oct 28 18:43	28°526'47	morning rise	2678 Aug 11 21:46	4° Ω 45'22
•			_	•	
opposition	2673 Jan 17 12:25	27°521'45 -0°38'36	retrograde	2678 Nov 06 07:15	6° Ω 06'10
min. Earth dist.	2673 Jan 19 13:23	27°519'09 40.64539 AU	opposition	2679 Jan 25 11:10	4° Ω 59'39 1°43'50
direct	2673 Apr 09 00:33	26°515'49	min. Earth dist.	2679 Jan 27 18:57	4°Ω56'36 39.22399 AU
evening set	2673 Jul 03 19:28	27° © 32'56	direct	2679 Apr 16 18:56	3° Ω 51'55
max. Earth dist.	2673 Jul 17 14:35	27°954'16 42.53085 AU	evening set	2679 Jul 12 09:27	5°Ω13'00
	0/70 X 1 10 22 22	0.000	max. Earth dist.	2679 Jul 25 20:21	5° Ω 34'39 41.10113 AU
conjunction	2673 Jul 19 23:05	27°957'57 -0°25'50		0.70 X 1 00 10 1	50 0 2015 4 10 5000
minimum elong	2673 Jul 19 23:05	27°957'57 0°25'50	conjunction	2679 Jul 28 10:54	5°Ω38'54 1°50'32
morning rise	2673 Aug 05 02:34	28°522'59	minimum elong	2679 Jul 28 10:51	5°Ω38'54 1°50'32
retrograde	2673 Oct 30 06:37	29° © 40'54	morning rise	2679 Aug 13 11:32	6° Ω 04'47
opposition	2674 Jan 18 23:23	28°935'37 -0°15'32	retrograde	2679 Nov 07 20:52	7° Ω 26'14
min. Earth dist.	2674 Jan 21 02:02	28°532'55 40.41362 AU	opposition	2680 Jan 27 00:16	6° Ω 19'25 2°08'30
direct	2674 Apr 10 10:10	27°\$29'24	min. Earth dist.	2680 Jan 29 08:08	6° Ω 16'20 38.97706 AU
evening set	2674 Jul 05 08:06	28°\$47'06	direct	2680 Apr 17 08:10	5° Ω 11'19
max. Earth dist.	2674 Jul 19 03:39	29°508'35 42.29854 AU	evening set	2680 Jul 13 02:14	6° £ 33'09
			max. Earth dist.	2680 Jul 26 09:27	6° Ω 54'43 40.85225 AU

conjunction	2680 Jul 29 02:18	6°Ω59'09	2014'05	opposition	2687 Feb 05 07:49	16°Ω05'49	5007'33
minimum elong	2680 Jul 29 02:14	6° Ω 59'09		min. Earth dist.	2687 Feb 03 07:49 2687 Feb 07 20:47		37.20414 AU
morning rise	2680 Aug 14 01:38	7° Ω 25'07	2 14 03	iiiii. Lattii uist.	2687 Apr 07 19:10	10 8. 02 19 15°RΩ	37.20414 AU
retrograde	2680 Nov 08 12:57	8° Ω 47'16		direct	2687 Apr 07 19:10 2687 Apr 27 10:31	13 \0 2 14° \0 54'58	
opposition	2681 Jan 27 13:44	7° Ω 40'07	2033125	direct	2687 May 16 23:38	15°Ω	
min. Earth dist.	2681 Jan 29 23:36		38.72744 AU	evening set	2687 Jul 24 19:57	16° Ω 23'25	
direct	2681 Apr 18 19:12	6° Ω 31'38	30.72744 AO	max. Earth dist.	2687 Aug 06 03:56		39.06983 AU
evening set	2681 Jul 14 19:34	7° Ω 54'16		max. Earth dist.	2007 Mug 00 05.50	10 00-1133	37.00703710
max. Earth dist.	2681 Jul 28 01:16		40.60079 AU	conjunction	2687 Aug 09 02:08	16° Ω 49'36	5°04'24
				minimum elong	2687 Aug 09 01:58	16° Ω 49'36	
conjunction	2681 Jul 30 18:14	8° Ω 20'20	2°37'51	morning rise	2687 Aug 24 07:00	17° Ω 15'44	
minimum elong	2681 Jul 30 18:09	8° Ω 20'20		retrograde	2687 Nov 19 16:23	18° Ω 43'57	
morning rise	2681 Aug 15 15:45	8° Ω 46'23		opposition	2688 Feb 07 00:34	17° Ω 34'26	5°33'53
retrograde	2681 Nov 10 05:08	10° Ω 09'15		min. Earth dist.	2688 Feb 09 14:44		36.94961 AU
opposition	2682 Jan 29 03:38	9° Ω 01'45	2°58'34	direct	2688 Apr 28 00:30	16° Ω 23'13	
min. Earth dist.	2682 Jan 31 13:55	8° Ω 58'31	38.47551 AU	evening set	2688 Jul 25 19:03	17° Ω 52'51	
direct	2682 Apr 20 08:50	7° Ω 52'53		max. Earth dist.	2688 Aug 06 23:16	18° Ω 13'53	38.81351 AU
evening set	2682 Jul 16 13:44	9° Ω 16'21			C		
max. Earth dist.	2682 Jul 29 15:34		40.34734 AU	conjunction	2688 Aug 09 21:27	18° Ω 18'59	5°29'22
				minimum elong	2688 Aug 09 21:16	18° Ω 18'58	
conjunction	2682 Aug 01 10:19	9° Ω 42'29	3°01'50	morning rise	2688 Aug 24 22:07	18° Ω 45'02	
minimum elong	2682 Aug 01 10:13	9° Ω 42'28		retrograde	2688 Nov 20 13:02	20°Ω14'21	
morning rise	2682 Aug 17 06:00	10°Ω08'35		opposition	2689 Feb 07 17:48	19° Ω 04'31	6°00'22
retrograde	2682 Nov 12 00:05	11°Ω32'12		min. Earth dist.	2689 Feb 10 08:50		36.69430 AU
opposition	2683 Jan 30 17:53	10° Ω 24'21	3°23'58	direct	2689 Apr 29 17:55	17° Ω 52'55	
min. Earth dist.	2683 Feb 02 04:55		38.22213 AU	evening set	2689 Jul 27 19:24	19° Ω 23'48	
direct	2683 Apr 21 22:07	9° Ω 15'05		max. Earth dist.	2689 Aug 08 17:43		38.55619 AU
evening set	2683 Jul 18 08:29	10° Ω 39'26					
max. Earth dist.	2683 Jul 31 07:48		40.09246 AU	conjunction	2689 Aug 11 17:17	19° Ω 49'51	5°54'26
				minimum elong	2689 Aug 11 17:05	19° Ω 49'50	
conjunction	2683 Aug 03 02:59	11° Ω 05'37	3°26'00	morning rise	2689 Aug 26 13:40	20° Ω 15'49	
minimum elong	2683 Aug 03 02:53	11°Ω05'36		retrograde	2689 Nov 22 11:46	21° Ω 46'17	
morning rise	2683 Aug 18 20:14	11° Ω 31'45		opposition	2690 Feb 09 11:40	20°Ω36'06	6°27'00
retrograde	2683 Nov 13 16:15	12°Ω56'11		min. Earth dist.	2690 Feb 12 03:03		36.43790 AU
opposition	2684 Feb 01 08:41	11° Ω 47'59	3°49'34	direct	2690 May 01 11:33	19° Ω 24'06	
min. Earth dist.	2684 Feb 03 20:51		37.96779 AU	evening set	2690 Jul 29 20:33	20° Ω 56'18	
direct	2684 Apr 22 13:13	10° £ 38'18		max. Earth dist.	2690 Aug 10 13:01		38.29728 AU
evening set	2684 Jul 19 04:00	12° Ω 03'35					
max. Earth dist.	2684 Aug 01 00:22		39.83702 AU	conjunction	2690 Aug 13 13:43	21° Ω 22'14	6°19'37
				minimum elong	2690 Aug 13 13:31	21° Ω 22'13	
conjunction	2684 Aug 03 19:57	12° Ω 29'48	3°50'22	morning rise	2690 Aug 28 05:08	21° Ω 48′05	
minimum elong	2684 Aug 03 19:50	12° Ω 29'47		retrograde	2690 Nov 24 07:11	23° Ω 19'44	
morning rise	2684 Aug 19 10:42	12° Ω 55'57		opposition	2691 Feb 11 06:15	22° Ω 09'12	6°53'44
retrograde	2684 Nov 14 08:37	14° Ω 21'14		min. Earth dist.	2691 Feb 13 23:19		36.18002 AU
opposition	2685 Feb 01 23:51	13° Ω 12'42		direct	2691 May 03 05:58	20° Ω 56'47	
min. Earth dist.	2685 Feb 04 11:44		37.71318 AU	evening set	2691 Jul 31 22:47	22° Ω 30'19	
direct	2685 Apr 24 05:38	12° Ω 02'37		max. Earth dist.	2691 Aug 12 09:48		38.03706 AU
evening set	2685 Jul 21 00:32	13° Ω 28'53				00000	
max. Earth dist.	2685 Aug 02 16:29		39.58124 AU	conjunction	2691 Aug 15 10:45	22° Ω 56'06	6°44'52
				minimum elong	2691 Aug 15 10:32	22°Ω56'05	6°44'52
conjunction	2685 Aug 05 13:34	13° Ω 55'07	4°14'54	morning rise	2691 Aug 29 20:54	23° Ω 21'48	
minimum elong	2685 Aug 05 13:26	13° Ω 55'07		retrograde	2691 Nov 26 03:26	24° Ω 54'41	
morning rise	2685 Aug 21 01:21	14° Ω 21'17		opposition	2692 Feb 13 01:14	23° Ω 43'47	7°20'34
	2685 Sep 15 00:59	15° Ω		min. Earth dist.	2692 Feb 15 18:08		35.92100 AU
retrograde	2685 Nov 16 01:38	15° Ω 47'29		direct	2692 May 04 01:22	22° Ω 30'55	30.92100110
renograde	2686 Jan 18 17:05	15°RΩ		evening set	2692 Aug 02 02:02	24° Ω 05'50	
opposition	2686 Feb 03 15:35	14° £ 38'36	4°41'23	max. Earth dist.	2692 Aug 13 05:24		37.77564 AU
min. Earth dist.	2686 Feb 06 04:56		37.45860 AU				
direct	2686 Apr 25 19:36	13° Ω 28'08		conjunction	2692 Aug 16 08:18	24° Ω 31'27	7°10'11
evening set	2686 Jul 22 21:48	14° £ 55'28		minimum elong	2692 Aug 16 08:04	24° Ω 31'26	7°10'12
	2686 Jul 25 14:40	14 0€ 33 2 6		morning rise	2692 Aug 30 12:52	24° Ω 56'57	-
max. Earth dist.	2686 Aug 04 11:09		39.32557 AU	retrograde	2692 Nov 27 01:07	24° Ω 31'09	
max. Durin dist.	2000 rug 07 11.09	10 0610 7/	57.52551 AU	opposition	2693 Feb 13 20:57	25° Ω 19'51	7°47'29
conjunction	2686 Aug 07 07:44	15° Ω 21'41	4°39'35	min. Earth dist.	2693 Feb 16 15:32		35.66116 AU
minimum elong	2686 Aug 07 07:35	$15^{\circ} \Omega 21'40$		direct	2693 May 05 17:37	23 δ (13 33 24° Ω 06'31	55.00110 AU
morning rise	2686 Aug 22 16:07	15° Ω 47'50	т 3733	evening set	2693 Aug 04 06:22	25° Ω 42'53	
retrograde	2686 Nov 17 19:24	13 δ (4/30 17° Ω 15'01		max. Earth dist.	2693 Aug 15 04:04		37.51352 AU
renograde	2000 140V 1/ 17.24	1,061301		max. Larm uist.	20/3/14g 13 04.04	20 060230	31.31332 AU

conjunction	2693 Aug 18 06:38	26° Ω 08'16	7025127	opposition	2700 Feb 26 08:33	7° m 15'58	10054147
minimum elong	2693 Aug 18 06:23	26°Ω08'15	7°35'32	min. Earth dist.	2700 Feb 20 08:33 2700 Mar 01 04:31	~	33.87338 AU
morning rise	2693 Sep 01 04:53	26° Ω 33'33	1 33 32	direct	2700 Mar 01 04.31 2700 May 17 23:58	5° m 59'19	33.87338 AU
•	•	28° Ω 09'06			•	~	
retrograde	2693 Nov 28 22:33	26° Ω57'23	0014127	evening set	2700 Aug 19 21:12	7° Mp 47'59	25 71522 ATT
opposition	2694 Feb 15 17:08			max. Earth dist.	2700 Aug 28 08:04	8° 110 04.22	35.71523 AU
min. Earth dist.	2694 Feb 18 11:39		35.40098 AU		2700 4 21 11 20	00 7 10 2 1	10020152
direct	2694 May 07 13:33	25° Ω 43'35		conjunction	2700 Aug 31 11:39	8° Mp 10'31	10°30'53
evening set	2694 Aug 06 11:52	27° Ω 21'28		minimum elong	2700 Aug 31 11:18	8° Mp 10'29	10°30'54
max. Earth dist.	2694 Aug 17 01:19	27° 81 40'45	37.25141 AU	morning rise	2700 Sep 12 00:01	8° My 32'55	
				retrograde	2700 Dec 12 08:55	10° m 19'59	
conjunction	2694 Aug 20 05:21	27° Ω 46'35	8°00'54	opposition	2701 Feb 28 09:44	9° ™ 05'23	11°20'53
minimum elong	2694 Aug 20 05:05	27° Ω 46'34	8°00'54	min. Earth dist.	2701 Mar 03 05:19		33.62753 AU
morning rise	2694 Sep 02 21:07	28° Ω 11'36		direct	2701 May 20 00:17	7° ™ ,48'17	
retrograde	2694 Nov 30 23:47	29° Ω 48'34		evening set	2701 Aug 22 11:45	9° m 39'04	
opposition	2695 Feb 17 14:01	28° £ 36′25	8°41'24	max. Earth dist.	2701 Aug 30 10:35	9° ™ 54'39	35.46763 AU
min. Earth dist.	2695 Feb 20 09:11	28° Ω 32'22	35.14139 AU				
direct	2695 May 09 08:33	27° Ω 22'07		conjunction	2701 Sep 02 15:18	10° Mp 00'58	10°55'09
evening set	2695 Aug 08 18:07	29° Ω 01'35		minimum elong	2701 Sep 02 14:58	10° Mp 00'56	10°55'09
max. Earth dist.	2695 Aug 19 00:59	29° £ 20′33	36.98995 AU	morning rise	2701 Sep 13 17:08	10° Mp 22'43	
				retrograde	2701 Dec 14 14:43	12°Mp11'47	
conjunction	2695 Aug 22 04:40	29° Ω 26′24	8°26'13	opposition	2702 Mar 02 11:39	10° Mp 56'46	11°46'42
minimum elong	2695 Aug 22 04:23	29° Ω 26′23	8°26'12	min. Earth dist.	2702 Mar 05 07:35	10° m 52'29	33.38379 AU
morning rise	2695 Sep 04 13:08	29° Ω 51'07		direct	2702 May 21 23:33	9° m 39'13	
8 2	2695 Sep 09 10:52	0° mp		evening set	2702 Aug 25 03:42	11° m 32'14	
retrograde	2695 Dec 02 23:50	1° m/29'33		max. Earth dist.	2702 Sep 01 15:46	~	35.22180 AU
opposition	2696 Feb 19 11:37	0° m) 16'58	9°08'19	man. Bartir dist.	2702 Sep 01 10.10	11 14 17 01	30.22100110
min. Earth dist.	2696 Feb 22 07:19		34.88292 AU	conjunction	2702 Sep 04 19:57	11° m 53'24	11°19'07
mm. Lattii dist.	2696 Mar 02 05:23	30°RΩ	34.002)2 AU	minimum elong	2702 Sep 04 19:37 2702 Sep 04 19:35	11° m 53'22	11°19'07
direct	2696 May 10 06:06	29° Ω 02'11		morning rise	2702 Sep 04 19:33 2702 Sep 15 10:13	12° Mp 14'26	11 1707
direct	2696 Jul 16 01:14	0° m)		retrograde	2702 Sep 13 10:13 2702 Dec 16 19:24	14° Mp 05'35	
ovening get		0°Mp43'19		•		14 my 05 35 12° my 50'10	12°12'11
evening set	2696 Aug 10 01:51		26 72000 AII	opposition	2703 Mar 04 14:37		
max. Earth dist.	2696 Aug 20 00:32	1°110/01/50	36.73008 AU	min. Earth dist.	2703 Mar 07 11:01		33.14182 AU
	2000 1 22 0120	103 05115	0051100	direct	2703 May 24 00:54	11° m 32'09	
conjunction	2696 Aug 23 04:36	1° Mp 07'47	8°51'28	evening set	2703 Aug 27 21:14	13° Mp 27'27	24.05500 444
minimum elong	2696 Aug 23 04:18	1° Mp 07'46	8°51'28	max. Earth dist.	2703 Sep 03 20:32	13° 110/41'24	34.97790 AU
morning rise	2696 Sep 05 05:31	1° m/32'08					
retrograde	2696 Dec 04 01:41	3° Mp 12′07		conjunction	2703 Sep 07 01:04	13° m 47'49	11°42'43
opposition	2697 Feb 20 09:37	1° m 59'06	9°35'10	minimum elong	2703 Sep 07 00:42	13° m 47'47	11°42'43
min. Earth dist.	2697 Feb 23 04:47	-	34.62652 AU	morning rise	2703 Sep 17 03:13	14° m 08'04	
direct	2697 May 12 04:20	0° Mp 43′50		retrograde	2703 Dec 19 03:31	16°Mp01'23	
evening set	2697 Aug 12 10:43	2° Mp 26'43		opposition	2704 Mar 05 18:13	14° Mp 45'32	12°37'17
max. Earth dist.	2697 Aug 22 00:50	2° m 44'45	36.47226 AU	min. Earth dist.	2704 Mar 08 14:07	14° Mp41'12	32.90186 AU
				direct	2704 May 25 04:58	13° m 27'02	
conjunction	2697 Aug 25 05:21	2° m 50'47	9°16'36	evening set	2704 Aug 29 16:26	15° m 24'45	
minimum elong	2697 Aug 25 05:03	2° Mp 50'46	9°16'35	max. Earth dist.	2704 Sep 05 02:24	15° m 37'44	34.73590 AU
morning rise	2697 Sep 06 22:00	3° Mp 14'44					
retrograde	2697 Dec 06 02:29	4° Mp 56'21		conjunction	2704 Sep 08 07:16	15° m 44'14	12°05'55
opposition	2698 Feb 22 08:39	3° Mp 42'55	10°01'53	minimum elong	2704 Sep 08 06:53	15° m 44'12	12°05'54
min. Earth dist.	2698 Feb 25 04:41	3° m 38'44	34.37259 AU	morning rise	2704 Sep 17 20:21	16° Mp 03'35	
direct	2698 May 14 03:05	2° m/27'10		retrograde	2704 Dec 20 10:50	17° m 59'09	
evening set	2698 Aug 14 20:50	4° Mp 11'53		opposition	2705 Mar 07 22:40	16° Mp 42'53	13°01'56
max. Earth dist.	2698 Aug 24 03:00	4° m/29′28	36.21721 AU	min. Earth dist.	2705 Mar 10 19:35	16° M 38'27	32.66409 AU
	Č	•		direct	2705 May 27 09:00	15° m 23'54	
conjunction	2698 Aug 27 06:37	4° m/ 35'30	9°41'34	evening set	2705 Sep 01 13:35	17° m 24'08	
minimum elong	2698 Aug 27 06:18	4° m/ 35'29	9°41'34	max. Earth dist.	2705 Sep 07 10:00		34.49648 AU
morning rise	2698 Sep 08 14:26	4° m 59'00	,,	man. Bartir dist.	2700 Sep 07 10.00	1, 1, 2000	3
retrograde	2698 Dec 08 04:32	6° Mp 42'20		conjunction	2705 Sep 10 14:12	17° m 42'36	12°28'38
opposition	2699 Feb 24 08:14	5° Mp 28'30	10°28'27	minimum elong	2705 Sep 10 13:50	17° mp 42'35	12°28'38
min. Earth dist.	2699 Feb 27 03:13	5° Mp 24'21		morning rise	2705 Sep 10 13:30 2705 Sep 19 13:13	17 my 42 33 18° my 00'57	12 20 30
direct	2699 Feb 27 03:13 2699 May 16 02:48	3 my 24 21 4° my 12'18	JT.121JJ AU	retrograde	2705 Sep 19 13.13 2705 Dec 22 18:42	18 m/0037 19°m/58'54	
	•	=		•		-	12026104
evening set	2699 Aug 17 08:18	5° Mp 58'57	25.06402.433	opposition	2706 Mar 10 03:56	18° Mp 42'13	
max. Earth dist.	2699 Aug 26 04:05	o : yı 15'53	35.96493 AU	min. Earth dist.	2706 Mar 12 23:42		32.42914 AU
aaminus sti sa	2600 4 20 00 40	60 m 22102	10007121	direct	2706 May 29 14:47	17° Mp 22'44	
conjunction	2699 Aug 29 08:40	6° M) 22'03	10°06'21	evening set	2706 Sep 04 12:12	19° Mp 25'35	24.26000 433
minimum elong	2699 Aug 29 08:21	6° Mp 22'02	10°06'20	max. Earth dist.	2706 Sep 09 16:57	19~110/36/19	34.26008 AU
morning rise	2699 Sep 10 07:13	6° Mp 45'02			2707 9 12 21 12	100% /215=	10050140
retrograde	2699 Dec 10 06:51	8° m 30'11		conjunction	2706 Sep 12 21:43	19° m 42'57	12~50.49

minimum elong	2706 Sep 12 21:19	19° m 42'55 12°	°50'49	retrograde	2713 Jan 06 21:21	4° £ 53'43	
morning rise	2706 Sep 21 05:44	20° m 00'11		opposition	2713 Mar 24 16:50		15°53'47
retrograde	2706 Dec 25 02:08	22° m 00'38		min. Earth dist.	2713 Mar 27 07:30		30.92372 AU
opposition	2707 Mar 12 10:06	20° m 43'30 13°	49'37	direct	2713 Jun 12 18:14	2° £ 11'42	
min. Earth dist.	2707 Mar 15 06:33	20° m/39'02 32.1	19773 AU	max. Earth dist.	2713 Sep 25 03:31	4° £ 36'12	32.75440 AU
direct	2707 May 31 18:42	19° m 23'32			•		
evening set	2707 Sep 07 13:05	21° m 29'10		conjunction	2713 Sep 28 00:56	4° ≏ 42'36	15°04'38
max. Earth dist.	2707 Sep 12 03:04	21° mp 38'43 34.0	02764 AU	minimum elong	2713 Sep 28 00:37	4° ≏ 42'34	15°04'37
	•			retrograde	2714 Jan 09 12:22	7° ≏ 10'04	
conjunction	2707 Sep 15 06:08	21° Mp 45'16 13°	12'24	opposition	2714 Mar 27 05:15	5° ≏ 50'15	16°10'51
minimum elong	2707 Sep 15 05:46	21° m 45'14 13°	12'24	min. Earth dist.	2714 Mar 29 20:01	5° ≙ 45'59	30.73347 AU
morning rise	2707 Sep 22 21:42	22° m 01'16		direct	2714 Jun 15 05:35	4° £ 27'21	
retrograde	2707 Dec 27 09:57	24° Mp 04'20		max. Earth dist.	2714 Sep 27 19:11	6° £ 53'25	32.56467 AU
opposition	2708 Mar 13 16:57	22° Mp 46'46 14°	212'30				
min. Earth dist.	2708 Mar 16 12:16	22° m/42'21 31.9	97059 AU	conjunction	2714 Sep 30 14:47	6° £ 59'43	15°19'47
direct	2708 Jun 02 00:41	21° m 26'19		minimum elong	2714 Sep 30 14:27	6° £ 59'41	15°19'47
evening set	2708 Sep 09 16:06	23° Mp 34'53		retrograde	2715 Jan 12 03:34	9° ഫ 28'31	
max. Earth dist.	2708 Sep 13 11:44	23° Mp 42'56 33.7	79993 AU	opposition	2715 Mar 29 18:29	8° ഫ 08'22	16°26'42
				min. Earth dist.	2715 Apr 01 07:14	8° ≏ 04'14	30.54921 AU
conjunction	2708 Sep 16 15:14	23° Mp 49'35 13°	33'17	direct	2715 Jun 17 19:18	6° ≏ 45'08	
minimum elong	2708 Sep 16 14:50	23° Mp 49'33 13°	233'18	max. Earth dist.	2715 Sep 30 10:20	9° £ 12'35	32.38099 AU
morning rise	2708 Sep 23 13:06	24° Mp 04'10					
retrograde	2708 Dec 28 20:21	26° Mp 10'03		conjunction	2715 Oct 03 05:34	9° £ 18'54	15°33'44
opposition	2709 Mar 16 00:46	24° m 52'03 14°	34'38	minimum elong	2715 Oct 03 05:16	9° £ 18'52	15°33'44
min. Earth dist.	2709 Mar 18 19:49	24° Mp 47'37 31.7	74868 AU	retrograde	2716 Jan 14 19:12	11° ≏ 48'59	
direct	2709 Jun 04 05:19	23° Mp 31'07		opposition	2716 Mar 31 08:31	10° ഫ 28'30	16°41'14
evening set	2709 Sep 12 21:55	25° m 42'50		min. Earth dist.	2716 Apr 02 21:11	10° £ 24'21	30.37101 AU
max. Earth dist.	2709 Sep 15 23:42	25° m/49'22 33.5	57773 AU	direct	2716 Jun 19 07:10	9° ≏ 04'54	
				max. Earth dist.	2716 Oct 02 04:17	11° ≏ 33'54	32.20366 AU
conjunction	2709 Sep 19 01:14	25° m 55'54 13°	°53'25				
minimum elong	2709 Sep 19 00:52	25° m 55'52 13°	°53'25	conjunction	2716 Oct 04 21:12	11° ≏ 40′03	15°46'26
morning rise	2709 Sep 25 03:18	26° № 08'54		minimum elong	2716 Oct 04 20:54	11° ≏ 40'01	15°46'26
retrograde	2709 Dec 31 05:26	28° Mp 17'46		retrograde	2717 Jan 16 11:31	14° ≙ 11'20	
opposition	2710 Mar 18 09:31	26° Mp 59'22 14°	°55'54	opposition	2717 Apr 02 23:31	12° ♀ 50'33	16°54'24
min. Earth dist.	2710 Mar 21 03:38	26° Mp 54'58 31.5	53255 AU	min. Earth dist.	2717 Apr 05 10:28	12° ≏ 46′29	30.19892 AU
direct	2710 Jun 06 13:22	25° M 38'00		direct	2717 Jun 21 21:57	11° ≏ 26'36	
evening set	2710 Sep 16 07:03	27° m 53'07		max. Earth dist.	2717 Oct 04 20:49	13° ≙ 56'51	32.03286 AU
max. Earth dist.	2710 Sep 18 10:41	27° m 57'45 33.3	36194 AU				
				conjunction	2717 Oct 07 13:22	14° ഫ 03'00	15°57'47
conjunction	2710 Sep 21 11:52	28° Mp 04'19 14°	212'41	minimum elong	2717 Oct 07 13:06	14° ഫ 02'59	15°57'47
minimum elong	2710 Sep 21 11:29	•	212'41	retrograde	2718 Jan 19 04:08	16° £ 35'29	
morning rise	2710 Sep 26 15:39	28° Mp 15'26		opposition	2718 Apr 05 15:16		17°06'06
	2710 Nov 22 12:27	0∘ ⊽		min. Earth dist.	2718 Apr 08 01:16		30.03355 AU
retrograde	2711 Jan 02 18:26	0° ≏ 27'36		direct	2718 Jun 24 11:39		
	2711 Feb 14 01:23	30°R, Mp		max. Earth dist.	2718 Oct 07 16:27	16° £ 21'43	31.86922 AU
opposition	2711 Mar 20 19:04		216'14				
min. Earth dist.	2711 Mar 23 11:46	29° m 04'29 31.3	32307 AU	conjunction	2718 Oct 10 06:18		16°07'43
direct	2711 Jun 08 21:54	27° m 47'01		minimum elong	2718 Oct 10 06:04		16°07'44
	2711 Sep 17 02:48	0° ™		retrograde	2719 Jan 21 19:29		
evening set	2711 Sep 19 21:06	0° ♀ 05'59		opposition	2719 Apr 08 07:48		
max. Earth dist.	2711 Sep 20 23:56	0° £ 08′25 33.1	15281 AU	min. Earth dist.	2719 Apr 10 16:21		29.87534 AU
	2711 0 22 22 21	00.01.4150 1.40	21101	direct	2719 Jun 27 03:57		21.712.16.177
conjunction	2711 Sep 23 23:21		231'01	max. Earth dist.	2719 Oct 10 10:38	18° ± 48'00	31.71346 AU
minimum elong	2711 Sep 23 23:00		231'01				
morning rise	2711 Sep 28 00:41	0° £ 23'42		conjunction	2719 Oct 12 23:34		16°16'10
retrograde	2712 Jan 05 06:05	2° £ 39'34		minimum elong	2719 Oct 12 23:22		16°16'09
opposition	2712 Mar 22 05:38	1° 2 20′25 15°		retrograde	2720 Jan 24 14:02		1702 *** *
min. Earth dist.	2712 Mar 24 22:05	1° 2 16'05 31.1	12013 AU	opposition	2720 Apr 10 00:57		
41	2712 May 30 18:49	30°RM)		min. Earth dist.	2720 Apr 12 07:27		29.72515 AU
direct	2712 Jun 10 06:34	29° m 58'15		direct	2720 Jun 28 19:54		21 56610 433
• .	2712 Jun 20 20:01	0° ⊽		max. Earth dist.	2720 Oct 12 07:36	21°±15'56	31.56619 AU
evening set	2712 Sep 22 21:03	2° £ 21'55	25045 ***		2720 0 11 17 17	21022112	1.0000101
max. Earth dist.	2712 Sep 22 13:22	2° £ 21'12 32.9	93043 AU	conjunction	2720 Oct 14 17:36		16°23'01
	2712 6 27 11 12	20.0.27120 110	140101	minimum elong	2720 Oct 14 17:25		16°23'02
conjunction	2712 Sep 25 11:41		°48'21	retrograde	2721 Jan 26 06:44		17021126
minimum elong	2712 Sep 25 11:19		°48'21	opposition	2721 Apr 12 18:51		
morning rise	2712 Sep 28 01:31	2° ჲ 33'18		min. Earth dist.	2721 Apr 15 00:08	∠2° ≥≤ 31°22	29.58363 AU

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Maniman cong 722 Avr 9 17 18 28 38 18 18 18 18 18 18 1	max. Earth dist.	2721 Oct 15 03:53	23° £ 45′07 31.42	2853 AU max. Earth dist.	2729 Nov 05 18:58	14°M19'42 30.71250 AU
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min. Earth dist. 2728 May 02 04:09 10°	•			•		
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	min. Earth dist.	2729 May 04 23:36	13~IIL01'22 28.82	224 / AU	2/36 Jul 18 11:00	3U [™] RIIL

direct	2736 Aug 09 19:09	29° M .51'44		marning rise	27/2 Dec 20 12:16	18° ∡ '02'47	
direct		29 II631 44 0° √		morning rise	2742 Dec 20 12:16 2743 Mar 23 23:45	18 x ·0247 20° x 13'58	
evening set	2736 Aug 31 22:33 2736 Nov 19 17:11	0 x ⁴ 2° x ⁴22'08		retrograde opposition	2743 Jun 09 23:19	20 x 13 38 18° x 52'10	11°54'45
evening set	2/30 NOV 19 17.11	2 × 22 08		min. Earth dist.	2743 Jun 09 14:50		29.15030 AU
conjunction	2736 Nov 25 00:49	2° ҂ ³34'57	14°06'27	direct	2743 Aug 29 01:37	17° × 28'35	27.13030710
minimum elong	2736 Nov 25 01:11	2°×35'00	14°06'27	evening set	2743 Dec 02 10:20	19°×740'26	
max. Earth dist.	2736 Nov 24 14:13		30.65276 AU	evening set	2743 Dec 02 10.20	17 7 4020	
morning rise	2736 Nov 30 08:53	2° × ⁷ 47'50	30.03270110	conjunction	2743 Dec 13 02:05	20° ∡ *05'17	10°53'19
retrograde	2737 Mar 08 14:45	5°×7'14'15		minimum elong	2743 Dec 13 02:28	20°×05'19	10°53'19
opposition	2737 May 24 22:12	3° ₹ '51'11	14°52'34	max. Earth dist.	2743 Dec 13 12:38		31.16297 AU
min. Earth dist.	2737 May 25 07:01		28.73403 AU	morning rise	2743 Dec 23 17:48	20° ₹ 30'07	
direct	2737 Aug 12 18:41	2° × 125'48		retrograde	2744 Mar 25 15:19	22° х 39'08	
evening set	2737 Nov 21 11:31	4° × ⁷ 53'06		opposition	2744 Jun 11 17:38	21° х 17'34	11°21'00
<i>8</i>				min. Earth dist.	2744 Jun 11 05:20		29.25380 AU
conjunction	2737 Nov 27 19:37	5° ₹ '08'19	13°42'49	direct	2744 Aug 30 21:03	19° х 54'18	
minimum elong	2737 Nov 27 19:59	5° ∡ 708′21	13°42'49	evening set	2744 Dec 03 12:19	22° ₹ 03'51	
max. Earth dist.	2737 Nov 27 12:13		30.69303 AU	3			
morning rise	2737 Dec 04 04:02	5° ≮ ¹23'35		conjunction	2744 Dec 14 17:03	22° х 29'47	10°21'24
retrograde	2738 Mar 11 09:32	7° ₹ 147'04		minimum elong	2744 Dec 14 17:27	22° х 29'49	10°21'24
opposition	2738 May 27 19:29	6° х 24′10	14°26'26	max. Earth dist.	2744 Dec 15 07:18		31.27471 AU
min. Earth dist.	2738 May 28 01:35	6° х 23'44		morning rise	2744 Dec 25 21:29	22° х 55'42	
direct	2738 Aug 15 15:07	4° × 759'02		retrograde	2745 Mar 28 03:27	25° ₹ '02'37	
evening set	2738 Nov 23 08:23	7° х 23′28		opposition	2745 Jun 14 11:29	23° х 41'17	10°46'20
e venning see	27301101 23 00.23	, ,, 23 20		min. Earth dist.	2745 Jun 13 21:22		29.36643 AU
conjunction	2738 Nov 30 13:56	7° ∡ ¹40'46	13°17'41	direct	2745 Sep 02 15:27	22°×12'11	27.500 15 110
minimum elong	2738 Nov 30 14:19	7° × ⁷ 40'48	13°17'41	evening set	2745 Dec 05 14:41	24°×725'40	
max. Earth dist.	2738 Nov 30 10:31		30.74530 AU	evening set	2/43 Dec 03 14.41	24 × 23 40	
morning rise	2738 Dec 07 19:40	7°×7'58'07	30.74330710	conjunction	2745 Dec 17 07:11	24° ₹ ′52'34	9°48'42
retrograde	2739 Mar 14 04:00	10° ₹ 18'52		minimum elong	2745 Dec 17 07:11 2745 Dec 17 07:32	24° × 52'36	9°48'42
opposition	2739 May 30 16:18	8° \$\frac{7}{3}56'10	13°58'46	max. Earth dist.	2745 Dec 17 07:32 2745 Dec 17 23:37		31.39575 AU
min. Earth dist.	2739 May 30 10:18 2739 May 30 18:53	8° 🖈 55'59	28.83082 AU	morning rise	2745 Dec 17 23:37 2745 Dec 28 23:28	25° × 19'26	31.39373 AU
	2739 Aug 18 14:15	7° × ⁷ 31'19	20.03002 AU	retrograde		27° × 1920	
direct	2739 Aug 18 14.13 2739 Nov 25 06:53	9° 🖈 53'02		min. Earth dist.	2746 Mar 30 17:15 2746 Jun 16 10:24		29.48857 AU
evening set	2/39 NOV 23 00.33	9 × 33 02					
· · · · · · · · · · · ·	2720 D 02 07.40	100.712111	12051110	opposition	2746 Jun 17 04:26	26° ₹ 03'14	10°10'53
conjunction	2739 Dec 03 07:48	10° ₹ 12'11	12°51'10	direct	2746 Sep 05 09:05	24° 🖈 40'37	
minimum elong	2739 Dec 03 08:11	10° 🖈 12'14	12°51'10	evening set	2746 Dec 07 17:00	26° ₹ 45'48	
max. Earth dist.	2739 Dec 03 06:44		30.80866 AU		2516 5 10 20 21	0.50 310100	001.511.0
morning rise	2739 Dec 11 08:57	10° 🗷 31'22		conjunction	2746 Dec 19 20:31	27° 🖈 13'33	9°15'18
retrograde	2740 Mar 15 23:09	12° х 49'35	12020120	minimum elong	2746 Dec 19 20:53	27° 🖈 13'35	
opposition	2740 Jun 01 12:39		13°29'38	max. Earth dist.	2746 Dec 20 16:22		31.52623 AU
min. Earth dist.	2740 Jun 01 12:15		28.89581 AU	morning rise	2746 Dec 31 23:45	27° ∡ ¹41'17	
direct	2740 Aug 20 11:16	10° ≯ 02'32		retrograde	2747 Apr 02 05:06	29° ∡ ⁴44'14 –	
evening set	2740 Nov 26 06:41	12° ≯ 21'40		opposition	2747 Jun 19 20:52	28° ≯ 23'23	9°34'44
				min. Earth dist.	2747 Jun 19 00:42		29.62057 AU
conjunction	2740 Dec 05 01:21	12° ∡ ′42′29	12°23'23	direct	2747 Sep 08 01:08	27° ∡ *01'07	
minimum elong	2740 Dec 05 01:45	12° ≯ 42'31	12°23'23	evening set	2747 Dec 09 19:40	29° ₹ 04'15	
max. Earth dist.	2740 Dec 05 04:16	12° ∡ ⁴42'46	30.88267 AU				
morning rise	2740 Dec 13 19:58	13° ₹ 03'18		conjunction	2747 Dec 22 09:13	29° ₹ 32'44	8°41'18
retrograde	2741 Mar 18 15:09	15° ∡ 19'05		minimum elong	2747 Dec 22 09:33	29° ∡ ³32'46	8°41'17
opposition	2741 Jun 04 08:47	13° ∡ ¹56'48	12°59'11	max. Earth dist.	2747 Dec 23 07:59	29° ⋌ ³34'54	31.66660 AU
min. Earth dist.	2741 Jun 04 05:44	13° ∡ ¹57'01	28.97095 AU	morning rise	2748 Jan 03 22:23	0° ප 01'13	
direct	2741 Aug 23 09:04	12° ⋌ ³32'35			2748 Jan 03 09:23	0°ರ	
evening set	2741 Nov 28 07:13	14° ∡ °49′12		retrograde	2748 Apr 03 17:04	2° ⋜ 02'18	
				opposition	2748 Jun 21 12:21	0° る 41'45	8°58'00
conjunction	2741 Dec 07 18:03	15° ∡ 11'30	11°54'24	min. Earth dist.	2748 Jun 20 12:30	0°る43'20	29.76249 AU
minimum elong	2741 Dec 07 18:26	15° ∡ 11'32	11°54'24		2748 Jul 18 23:23	30°R. ✓	
max. Earth dist.	2741 Dec 07 22:55	15° ∡ 11'59	30.96666 AU	direct	2748 Sep 09 18:54	29° ₹ 19'51	
morning rise	2741 Dec 17 04:59	15° ∡ ³33'48			2748 Oct 30 04:46	8°0	
retrograde	2742 Mar 21 08:52	17° ∡ ¹47'15		evening set	2748 Dec 10 22:28	1°る21'00	
opposition	2742 Jun 07 04:23	16° ₹ '25'13	12°27'31	-			
min. Earth dist.	2742 Jun 06 21:50		29.05598 AU	conjunction	2748 Dec 23 21:09	1° る 50'10	8°06'46
direct		15° ₹ '01'18	-	minimum elong	2748 Dec 23 21:28	1°る50'12	
	2/42 Aug 20 05:15	0		· ·			
evening set	2742 Aug 26 05:15 2742 Nov 30 08:29	17° × 15'30		max. Earth dist.	2748 Dec 24 22:37	1°℃52'34	31.81674 AU
evening set	2742 Aug 26 03:13 2742 Nov 30 08:29	17° ∡ 15'30		max. Earth dist. morning rise	2748 Dec 24 22:37 2749 Jan 05 19:36	1°る52'34 2°る19'17	31.81674 AU
-	2742 Nov 30 08:29		11°24'21	morning rise	2749 Jan 05 19:36	2° ප 19'17	31.81674 AU
conjunction	2742 Nov 30 08:29 2742 Dec 10 10:29	17° ∡ ³39′09		morning rise retrograde	2749 Jan 05 19:36 2749 Apr 06 05:37	2°る19'17 4°る18'36	
-	2742 Nov 30 08:29	17° ⋌ ³39'09 17° ⋌ ³39'11	11°24'21 11°24'21 31.06020 AU	morning rise	2749 Jan 05 19:36	2°る19'17 4°る18'36	29.91447 AU

Commitment	1:	2740 0 12 00 52	10=20(152		. 1	2756 4 20 10 21	100=204127	
Company Comp	direct	2749 Sep 12 08:52	1° る 36'52		retrograde	2756 Apr 20 18:31	19° ♂ 24'37	
	evening set	2749 Dec 13 01:09	3° 6 36'08					
minimar water 249 10					**			3°54'40
max. Emil and 249 27 31.04 475 575	conjunction	2749 Dec 26 08:20		7°31'48		2756 Sep 28 06:03	16° ⋜ 48'14	
morning fried 739 Apr	minimum elong	2749 Dec 26 08:38			evening set	2756 Dec 25 22:27	18° පි 36'20	
Propension 1750 part 1815 185	max. Earth dist.	2749 Dec 27 13:16	4° る 08'34	31.97656 AU				
Deposition 2750 pm 26 1739 5°13716 7°43V8 max. Earth dist. 2757 km 24 16 20 1975 114 3,29954 AU minimum familiant for the proposition 2759 pm 15 0.050 5°45721 0.0758214 0.07582	morning rise	2750 Jan 08 15:03	4° る 35'33		conjunction	2757 Jan 09 19:37	19° る 07'47	3°22'46
Deposition 2750 pm 2 to 1739 5°1316 7°4308 max Farth dist 2757 pm 2 to 1750 15°25713 34.094 10°5207 10°520	retrograde	2750 Apr 08 15:56	6° る 33'10		minimum elong	2757 Jan 09 19:46	19° る 07'48	3°22'47
Min Farl dist	•	•	5°ਨ13'16	7°43'08	- C	2757 Jan 11 15:20	19°₹11'41	33 29954 AU
Proceedings								
Powering set 190 Dec 15 4,10 9°5-949 10 10 10 10 10 10 10 1				30.07300710	Č			
Conjunction		*			•	-		21 40504 ATT
	evening set	2730 Dec 13 04.10	3 04940					
Manimum clong 2750 Dec 28 19/05 6°6"9/53 6°6"3					• •			3-1033
max. Earth dist	•							
morning rise	_	2750 Dec 28 19:05			evening set	2757 Dec 28 01:17	20° ℃ 38'00	
Perspect 1978 1972 197	max. Earth dist.	2750 Dec 30 01:32		32.14521 AU				
min Earth dist. 2751 Jun 29 22.33 7=52875 50 24596 AU max Earth dist. 2758 Jun 12 22.33 21*6 32.93 33 50985 AU opposition 2751 Jun 29 0700 7=52088 **C90735 refungade 2758 Jun 12 21.03 21*1050 21*1050 21*1050 21*1050 21*1050 21*1050 21*1050 31*1050	morning rise	2751 Jan 11 09:17	6° る 50'02		conjunction	2758 Jan 12 01:08	21° る 09'27	2°47'29
Opto	retrograde	2751 Apr 11 04:25	8° る 46'02		minimum elong	2758 Jan 12 01:14	21° る 09'27	2°47'29
Proving set 15 15 15 16 17 15 16 18 16 15 16 17 17 18 18 18 18 18 19 19 19	min. Earth dist.	2751 Jun 27 22:33	7° る 28'35	30.24596 AU	max. Earth dist.	2758 Jan 13 22:23	21° る 13'26	33.50985 AU
Proving set 15 15 15 16 17 15 16 18 16 15 16 17 17 18 18 18 18 18 19 19 19	opposition	2751 Jun 29 07:00	7° る 26'28	7°05'13	morning rise	2758 Jan 27 01:05	21° る 40'53	
Persing set 275 Dec 17 07:06 8°50135 Section 1.000 1.0		2751 Sep. 17, 15:08	6° る 05'51		-	2758 Apr 25 05:38	23°₹27'27	
Conjunction 2751 Dec 31 04:44 8°G3211 6°21'00 direct 2758 Oet 02 23:48 20°G5'222 2°G1'00		*			•	•		31 61763 ATT
Conjunction 2751 Dec 31 04-44 8°53211 6°2100 direct 2758 Dec 30 03-54 27°55720 27°5572	evening set	2/31 Dec 17 07.00	0 00133					
minimum elong 2751 Dec 31 04.59 8°53212 0232201 AU evening set 2758 Dec 30 03.54 22°53750 21°237750 max. Earth dist. 2752 Jan 14 01.54 8°53220 32.32201 AU conjunction 2759 Jan 14 06.08 23°50913 21°1277 min. Earth dist. 2752 Jan 29 09.45 9°60715 0°43707 morning rise 2759 Jan 14 06.08 23°50913 21°227 min. Earth dist. 2752 Jan 9 09.45 9°63759 6°2707 morning rise 2759 Jan 14 06.03 23°51323 33.23505 AU opposition 2752 Sep 19 06.08 8°51749 retrograde 2759 Jan 16 10.22 23°54036 25°51202 20°217 2759 Jan 16 10.22 23°54036 25°51202 20°217 2759 Jan 16 10.22 23°54036 25°51202 20°217 2759 Jan 16 10.23 23°54036 23°5513 23°51342 20°217 23°551 23°55 Jan 10 13.34 10°54248 5°4520 direct 2759 Jul 16 17.22 24°55092 29°217 23°211 24°60902 29°217 23°217 23°217 23°217 23°217 23°217 23°217 23°217	agniumation	2751 Dec. 21, 04:44	00=22211	6921100				2 39 20
max. Earth dist. 2752 Jan 14 01-54 8°B3520 3.23201 AU conjunction 2759 Jan 14 06-08 23°B09*13 2°1227 retrograde 2752 Jan 14 01-54 9°B09*13 0.24329 minimum clong 2759 Jan 14 06-03 23°B09*13 2°1227 nin. Earth dist. 2752 Jan 29 09-45 9°B40*12 0.42392 AU max. Earth dist. 2759 Jan 16 05-54 23°B1333 33.72505 AU opposition 2752 Jan 30 10 18°9379 6°2707 morning rise 2759 Jan 16 05-54 23°B4036 23°B4036 direct 2752 Dec 18 10:10 10°B119*4 retrograde 2759 Jul 16 12-22 24°G0902 20°217 conjunction 2753 Jan 01 13-33 10°B4249 5°4520 direct 2759 Ol Jul 16 10:19 23°33 Tul 18 2760 Jul 16 10:19 23°33 Tul 18 2760 Jul 16 10:19 23°33 Tul 18 2760 Jul 16 10:19 25°B0708 18743 min. Earth dist. 2753 Jul 10 18 13.29 18°54790 minimum clong 2760 Jul 16 10:19 25°B0708 18743 retrograde 2753 Jul 10 18 13.29	3							
Proming rise 2752 Jan 4 0 1.54 9"50"24" Conjunction 2759 Jan 4 0 6.08 23"50"90"1 2"1227" Conjunction 2752 Jan 2 0 23"610"2 30"42392 Au Rath dist. 2752 Jan 29"6173 30"450"5 Au Rearth dist. 2752 Jan 29"6173 30"750"5 Au Rearth dist. 2752 Jan 29"6173 30"750"5 Au Rearth dist. 2759 Jan 20"8172 23"6100"3 37"250"5 Au Rearth dist. 2759 Jan 20"8172 23"6100"3 37"250"5 Au Rearth dist. 2759 Jan 20"8172 23"6100"3 23"600"3 23"6100"3 23"600"3	•				evening set	2/38 Dec 30 03:34	22-03/30	
Petrograde 2752 Apr 2 13-39 19"-85" 21"-27"				32.32201 AU				
min. Earth dist. 2752 Jun 29 0.454 9°54012 30.42392 AU max. Earth dist. 2759 Jun 16 0.554 23°51323 33.7250 XU opposition 2752 Jun 30 19.53 9°53759 6°2707 morning rise 2759 Jun 29 08:12 25°34076 Conjunction 2752 Dec 18 10:10 10°51154 min. Earth dist. 2759 Jul 14 17.03 24°51260 31.83442 AU opposition 2753 Jun 1 113:43 10°54248 5°4520 direct 2759 Oct 10 6.703 22°67177 Conjunction 2753 Jun 1 113:43 10°54248 5°4520 direct 2759 Oct 10 6.703 22°67177 Conjunction 2753 Jun 1 13:43 10°54248 5°4520 direct 2759 Oct 10 6.703 22°67177 Conjunction 2753 Jun 1 15.707 11°674694 32.50601 AU minimum clong 2753 Jun 1 15.707 11°674694 32.50601 AU minimum clong 2753 Jun 1 15.707 11°674694 32.50601 AU minimum clong 2753 Jun 1 15.707 11°674694 32.50601 AU minimum clong 2753 Jun 1 18.32 11°654074 5°4856 morning rise 2760 Jun 1 16 10:15 25°60709 1°3743 Au Conjunction 2753 Jun 1 18.32 11°654074 5°4856 morning rise 2760 Jun 1 18.20 11°63409 25°58124 30.60901 AU minimum clong 2753 Jun 1 18.20 11°6349 5°4856 morning rise 2760 Jun 1 18 10:15 25°587079 1°3743 Au Conjunction 2754 Jun 0 22:16 12°65874 12°65979 minimum clong 2754 Jun 0 21:26 12°65874 12°65979 minimum clong 2754 Jun 0 21:26 12°65874 12°65979 13°645874 12°65979 13°645874 12°65979 13°645874 12°65979 13°645874 12°65979 13°645874 12°65979 13°645979 13°6	•				•			
opposition direct 2752 Jun 30 19:53 9°537'59 6°2707 morning rise retrograde 2759 Jun 29 08:12 23°540'3 24°61'203 31.83442 AU certograde 2759 Apr 27 09:08 22°52'02 22°62'103 31.83442 AU conjunction 2753 Jun 10 1 34.37 10°54'248 5°45'20 direct 2759 Jul 16 17:22 24°51'909'2 2°02'17 max. Earth dist. 2753 Jun 01 13:57 10°54'248 5°45'20 cereing set 2760 Jun 10 16:35 24°51'53'3 3°25'15'8 1 2760 Jun 10 16:35 24°51'53'3 3°25'15'8 1 1 10°54'44 5°45'20 cereing set 2760 Jun 10 16:35 24°51'53'3 3°25'11'1 3°37'43 1 10°54'44 3°25001 AU cering set 2760 Jun 10 10:15 25°50'708 1°37'43 1 10°50'14' 30°60'14 cering set 2760 Jun 10 10:15 25°50'708 1°37'43 3°45'50'14 max. Earth dist. 2760 Jun 10 10:15 25°50'708 1°37'43 3°45'50'44 10°60'44'50'45 4°50'45'50'44 10°60'44'50'45 4°50'45'50'44 10°60'44'50'45'50'44 4°45'50'45'50'44 10°60'44'50'45'50	•	2752 Apr 12 13:39	10° ප් 57'13		minimum elong	2759 Jan 14 06:13		
direct 2752 Sep 19 06.08 8°51749 rettograde 2759 Apr 27 09.08 25°52602 2°6102 2°751 Dec 18 10:10 10°51154 min. Earth dist. 2759 Jul 14 17:03 24°51203 31.83442 AU 2°60207 2°0217 2°00218 2°00217 2°00218 2°00217 2°00218 2°00217 2°00218 2°00218 2°00218	min. Earth dist.	2752 Jun 29 09:45	9° る 40'12	30.42392 AU	max. Earth dist.	2759 Jan 16 05:54		33.72505 AU
Conjunction 1752 Dec 18 10:10 10°511'54 min. Earth dist. 2759 Jul 14 17:03 24°51'03 21'03'43 24°00'02 22°02'17 24°00'02 24°00'02 24°00'02 22°02'17 25°00'14 25°0	opposition	2752 Jun 30 19:53	9° る 37'59	6°27'07	morning rise	2759 Jan 29 08:12	23° る 40'36	
Conjunction C753 Jan 01 13-43 10°84248 54520 direct 2759 Oct 05 09.35 22°E51137 C753 Jan 01 13-45 10°E4248 54520 evening set 2760 Jan 01 06.35 24°E53578 C760 Jan 12°E53578 C760 Jan 12°E5378 C760 Jan 12°E5379 C760 Jan C760 Jan C760 Jan C760 Jan C760 Jan 12°E5379 C760 Jan C760	direct	2752 Sep 19 06:08	8° る 17'49		retrograde	2759 Apr 27 09:08	25° පි 26'02	
Conjunction 2753 Jan 01 13:43 10°54248 5°4520 4°6727 2°760 Jan 01 06:35 24°5353 22°55137 2°760 Jan 01 06:35 24°63553 27°760 Jan 01 06:35 24°63553 27°774	evening set	2752 Dec 18 10:10	10° る 11'54		min. Earth dist.	2759 Jul 14 17:03	24° ප 12'03	31.83442 AU
minimum elong minimum elong minimum elong minimum elong conjunction morning rise conjunction minimum elong conjunction conjunction minimum elong conjunction conj					opposition	2759 Jul 16 17:22	24°る09'02	2°02'17
minimum elong minimum elong minimum elong minimum elong conjunction morning rise conjunction minimum elong conjunction conjunction minimum elong conjunction conj	conjunction	2753 Jan 01 13:43	10° る 42'48	5°45'20	direct	2759 Oct 05 09:33	22° る 51'37	
max. Earth dist.	•	2753 Jan 01 13:57	10°る42'49	5°45'20	evening set	2760 Jan 01 06:35		
morning rise 2753 Jan 15 17:07 11°\$\frac{3}\$141 conjunction 2760 Jan 16 10:15 25°\$\frac{3}\$708 1°3743 retrograde 2753 Jan 14 23:10 13°\frac{3}\$6041 minimum elong 2760 Jan 18 10:19 25°\$\frac{3}\$709 1°3743 minimum elong 2753 Jan 16 10:19 25°\$\frac{3}\$709 3743 minimum elong 2753 Jan 18:32 11°\frac{5}\$5011 30.60901 AU max. Earth dist. 2760 Jan 18 10:59 25°\$\frac{3}\$112 33.94533 AU opposition 2753 Jan 03 08:00 11°\frac{3}\$749 5°48°56 morning rise 2760 Jan 31 14:11 25°\frac{3}\$82" 27°\frac{2}\$248 evening set 2753 Dec 20 13:13 12°\frac{2}\$529 min. Earth dist. 2760 Jan 15 21:16 26°\frac{2}{6}\$006 1°2529 conjunction 2754 Jan 03 22:16 12°\frac{2}{5}\$143 5°0937 direct 2760 Oct 06 16:51 24°\frac{2}{6}\$4903 minimum elong 2754 Jan 03 22:28 12°\frac{2}{5}\$144 5°0937 evening set 2760 Jan 02 08:48 26°\frac{2}{6}\$32*12 max. Earth dist. 2754 Jan 05 12:56 13°\frac{2}{5}\$13 30.80040 AU max. Earth dist. 2761 Jan 17 13:43 27°\frac{2}{6}\$138 1°03'20 min. Earth dist. 2754 Jan 04 04:56 13°\frac{2}{5}\$13*3 30.80040 AU max. Earth dist. 2761 Jan 17 13:45 27°\frac{2}{6}\$145 10 2754 Jan 2754 Jan 2754 Jan 2755 Jan 2754 Jan 2755 J	_				**************************************			
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min. Earth dist. 2753 Jul 03 08:00 11°352 11°350′14 30.60901 AU max. Earth dist. 2760 Jan 18 10:59 25°51′12 33.94533 AU opposition 2753 Jul 03 08:00 11°34′149 5°48′56 morning rise 2760 Jan 18 10:59 25°51′12 33.94533 AU opposition 2753 Jul 03 08:00 11°34′149 5°48′56 morning rise 2760 Jan 18 10:59 28 14:52 27°52′248 27°53′149 27°52′34 2	•				·			
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direct 2753 Sep 21 18:46 10°G28'04 retrograde 2760 Apr 28 14:52 27°G22'8 28°C92'8 20°C90'16 3.05685 AU cevening set 2763 Dec 20 13:13 12°G20'34 min. Earth dist. 2760 Jul 15 21:16 26°G0'916 3.205685 AU 20°C90'16 20°C90'18 20°C90'16 20°C90'16 20°C90'18								33.94333 AU
evening set 2753 Dec 20 13:13 12°\overline{3}2034	**			5°48'56	•			
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Conjunction 2754 Jan 03 22:16 12°\signslight 20\signslight 509\signslight 2764 Jan 03 22:28 12°\signslight 20\signslight 509\signslight 2764 Jan 02 08:48 26°\signslight 26°\signslight 2764 Jan 05 12:56 12°\signslight 2755\signslight 32.69644 AU 2761 Jan 17 13:43 27°\signslight 27°\signs	evening set	2753 Dec 20 13:13	12° る 20'34				26° ⋜ 09'16	32.05685 AU
minimum elong					opposition	2760 Jul 18 00:19	26° ♂ 06'06	1°25'29
max. Earth dist.	conjunction	2754 Jan 03 22:16	12° る 51'43	5°09'37	direct	2760 Oct 06 16:51	24° る 49'03	
morning rise 2754 Jan 18 06:58 13°522'50 conjunction 2761 Jan 17 13:43 27°503'18 1°03'20 min. Earth dist. 2754 Apr 17 05:36 15°514'26 minimum elong 2761 Jan 17 13:43 27°503'18 1°03'20 min. Earth dist. 2754 Jul 04 04:56 13°558'23 30.80040 AU max. Earth dist. 2761 Jan 19 17:30 27°507'45 34.17104 AU opposition 2754 Jul 05 19:29 13°555'55 5°10'45 morning rise 2761 Feb 01 18:38 27°534'25 evening set 2754 Dec 22 16:20 14°527'34 min. Earth dist. 2761 Jul 18 02:31 28°50'40'43 32.28482 AU opposition 2754 Jul 20 06:40 28°50'128 0°49'07 conjunction 2755 Jan 06 06:11 14°558'53 4°33'54 direct 2761 Oct 09 00:56 26°54'49 min. Earth dist. 2755 Jan 06 06:12 14°558'54 4°33'53 evening set 2755 Jan 19 18:31 28°55748 0°29'20 retrograde 2755 Jan 19 13:22 17°502'28 32.89262 AU morning rise 2755 Jan 20 19:31 15°530'11 conjunction 2762 Jan 19 16:31 28°55748 0°29'20 min. Earth dist. 2755 Jul 06 12:36 16°504'53 30.99730 AU max. Earth dist. 2762 Jan 19 16:32 28°55749 0°29'20 min. Earth dist. 2755 Jul 08 06:05 16°502'14 4°32'38 morning rise 2762 Feb 20 06:53 0°≈ evening set 2765 Ban 08 13:09 17°504'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°8€ conjunction 2756 Jan 08 13:18 17°504'16 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°8€ 29°55'36 32.51818 AU minimum elong 2756 Jan 08 13:18 17°504'16 3°58'16 opposition 2762 Jul 20 04:56 29°55'36 32.51818 AU minimum elong 2756 Jan 10 07:09 17°508'01 33.09369 AU direct 2762 Oct 11 07:06 28°53'59 40'31'12	minimum elong	2754 Jan 03 22:28	12° る 51'44	5°09'37	evening set	2761 Jan 02 08:48	26° පි 32'12	
retrograde 2754 Apr 17 05:36 15°\text{S14'26} min. Earth dist. 2764 Jul 04 04:56 13°\text{S5'823} 30.80040 AU max. Earth dist. 2761 Jan 19 17:30 27°\text{G0'7145} 34.17104 AU opposition 2754 Jul 05 19:29 13°\text{G5'55'5} 5°10'45 morning rise 2761 Feb 01 18:38 27°\text{G3'4'25} cevening set 2754 Dec 22 16:20 14°\text{G2'734} morning rise 2761 Apr 30 17:39 29°\text{G1'750} cevening set 2754 Dec 22 16:20 14°\text{G2'734} morning rise 2761 Apr 30 17:39 29°\text{G1'750} conjunction 2755 Jan 06 06:01 14°\text{G5'85'3} 4°33'54 direct 2761 Jul 18 02:31 28°\text{G0'440} 32.28482 AU opposition 2761 Jul 20 06:40 28°\text{G1'28} 0°49'07 conjunction 2755 Jan 06 06:12 14°\text{G5'85'3} 4°33'53 evening set 2762 Jan 04 11:08 28°\text{G2'6'34'49} cevening rise 2755 Jan 07 21:48 15°\text{G0'228} 32.89262 AU morning rise 2755 Apr 19 13:22 17°\text{G2'025} min. Earth dist. 2755 Jul 06 12:36 16°\text{G0'4'53} 30.99730 AU max. Earth dist. 2755 Jul 06 12:36 16°\text{G0'4'53} 30.99730 AU morning rise 2755 Sep 26 20:02 14°\text{G3'8'19} 4°32'38 morning rise 2762 Jul 19 06:01 30°\text{G2'28} 4°32'38 evening set 2762 Jul 19 06:01 30°\text{G2'28} 4°40'10 30°\text{G0'218} 34.40210 AU opposition 2755 Jul 08 13:09 17°\text{G0'215} 16°\text{G3'216} 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°\text{G2'25} 5°25 Sep 26 20:02 14°\text{G4'31'9} evening set 2756 Jul 08 13:09 17°\text{G0'4'15} 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29°\text{G5'38'59} 32.51818 AU minimum elong 2756 Jul 08 08:13:18 17°\text{G0'4'15} 3°58'16 opposition 2762 Jul 22 12:05 29°\text{G5'35'13} 0°13'12 minimum elong 2756 Jul 07:09 17°\text{G0'4'15} 3°58'16 opposition 2762 Jul 22 12:05 29°\text{G5'35'13} 0°13'12 minimum elong 2756 Jul 07:09 17°\text{G0'4'15} 30.9369 AU direct 2762 Cot 11 07:06 28°\text{G3'8'59} 4.50'13'12'12'12'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'14'14'14'14'14'14'14'14'14'14'14'14'	max. Earth dist.	2754 Jan 05 12:56	12° る 55'14	32.69644 AU				
retrograde 2754 Apr 17 05:36 15°\text{S14'26} min. Earth dist. 2764 Jul 04 04:56 13°\text{S5'823} 30.80040 AU max. Earth dist. 2761 Jan 19 17:30 27°\text{G0'7145} 34.17104 AU opposition 2754 Jul 05 19:29 13°\text{G5'55'5} 5°10'45 morning rise 2761 Feb 01 18:38 27°\text{G3'4'25} cevening set 2754 Dec 22 16:20 14°\text{G2'734} morning rise 2761 Apr 30 17:39 29°\text{G1'750} cevening set 2754 Dec 22 16:20 14°\text{G2'734} morning rise 2761 Apr 30 17:39 29°\text{G1'750} conjunction 2755 Jan 06 06:01 14°\text{G5'85'3} 4°33'54 direct 2761 Jul 18 02:31 28°\text{G0'440} 32.28482 AU opposition 2761 Jul 20 06:40 28°\text{G1'28} 0°49'07 conjunction 2755 Jan 06 06:12 14°\text{G5'85'3} 4°33'53 evening set 2762 Jan 04 11:08 28°\text{G2'6'34'49} cevening rise 2755 Jan 07 21:48 15°\text{G0'228} 32.89262 AU morning rise 2755 Apr 19 13:22 17°\text{G2'025} min. Earth dist. 2755 Jul 06 12:36 16°\text{G0'4'53} 30.99730 AU max. Earth dist. 2755 Jul 06 12:36 16°\text{G0'4'53} 30.99730 AU morning rise 2755 Sep 26 20:02 14°\text{G3'8'19} 4°32'38 morning rise 2762 Jul 19 06:01 30°\text{G2'28} 4°32'38 evening set 2762 Jul 19 06:01 30°\text{G2'28} 4°40'10 30°\text{G0'218} 34.40210 AU opposition 2755 Jul 08 13:09 17°\text{G0'215} 16°\text{G3'216} 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°\text{G2'25} 5°25 Sep 26 20:02 14°\text{G4'31'9} evening set 2756 Jul 08 13:09 17°\text{G0'4'15} 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29°\text{G5'38'59} 32.51818 AU minimum elong 2756 Jul 08 08:13:18 17°\text{G0'4'15} 3°58'16 opposition 2762 Jul 22 12:05 29°\text{G5'35'13} 0°13'12 minimum elong 2756 Jul 07:09 17°\text{G0'4'15} 3°58'16 opposition 2762 Jul 22 12:05 29°\text{G5'35'13} 0°13'12 minimum elong 2756 Jul 07:09 17°\text{G0'4'15} 30.9369 AU direct 2762 Cot 11 07:06 28°\text{G3'8'59} 4.50'13'12'12'12'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'15'14'14'14'14'14'14'14'14'14'14'14'14'14'	morning rise	2754 Jan 18 06:58	13° る 22'50		conjunction	2761 Jan 17 13:43	27° පි 03'18	1°03'20
min. Earth dist. 2754 Jul 04 04:56 13° ₹58'23 30.80040 AU max. Earth dist. 2761 Jan 19 17:30 27° ₹507'45 34.17104 AU opposition 2754 Jul 05 19:29 13° ₹55'55 5°10'45 morning rise 2761 Feb 01 18:38 27° ₹34'25 evening set 2754 Dec 22 16:20 14° ₹27'34	retrograde	2754 Apr 17 05:36	15° る 14'26		minimum elong	2761 Jan 17 13:45	27° ⋜ 03'18	1°03'20
opposition 2754 Jul 05 19:29 13°55'55 5°10'45 morning rise 2761 Feb 01 18:38 27°534'25 Leveling set 2754 Sep 24 07:59 12°536'36 retrograde 2761 Apr 30 17:39 29°517'50 22°850'128 228482 AU evening set 2754 Dec 22 16:20 14°527'34 min. Earth dist. 2761 Jul 18 02:31 28°504'40 32.28482 AU conjunction 2755 Jan 06 06:01 14°558'53 4°33'53 evening set 2762 Jan 04 11:08 28°526'54 4°30'8 max. Earth dist. 2755 Jan 06 06:12 14°558'54 4°33'53 evening set 2762 Jan 04 11:08 28°526'54 4°32'38 morning rise 2755 Jan 07 21:48 15°502'28 32.89262 AU minimum elong 2762 Jan 19 16:31 28°557'48 0°29'20 retrograde 2755 Apr 19 13:22 17°500'25 minimum elong 2762 Jan 19 16:31 28°557'49 0°29'20 min. Earth dist. 2755 Jul 08 06:05 16°50'4'53	•	•		30.80040 AU				
direct 2754 Sep 24 07:59 12°G36′36 retrograde 2761 Apr 30 17:39 29°G17′50 revening set 2754 Dec 22 16:20 14°G27′34 min. Earth dist. 2761 Jul 18 02:31 28°G04′40 32.28482 AU opposition 2761 Jul 20 06:40 28°G01′28 0°49′07 2762 Jul 20 06:50 276°G44′49 28°G01′28 0°49′07 2762 Jul 20 06:50 276°G44′49 28°G01′28 28°G01′2								
evening set 2754 Dec 22 16:20 14°중27'34 min. Earth dist. 2761 Jul 18 02:31 28°중04'40 32.28482 AU opposition 2761 Jul 20 06:40 28°중01'28 0°49'07 conjunction 2755 Jan 06 06:01 14°중58'53 4°33'54 direct 2761 Oct 09 00:56 26°중44'49 minimum elong 2755 Jan 06 06:12 14°중58'54 4°33'53 evening set 2762 Jan 04 11:08 28°중26'54 max. Earth dist. 2755 Jan 07 21:48 15°중02'28 32.89262 AU morning rise 2755 Jan 20 19:31 15°중30'11 conjunction 2762 Jan 19 16:31 28°중57'48 0°29'20 retrograde 2755 Jan 20 19:31 15°중30'11 conjunction 2762 Jan 19 16:31 28°중57'48 0°29'20 min. Earth dist. 2755 Jul 06 12:36 16°중04'53 30.99730 AU max. Earth dist. 2762 Jan 19 16:32 28°중57'49 0°29'20 opposition 2755 Jul 08 06:05 16°중02'14 4°32'38 morning rise 2762 Feb 03 22:12 29°중28'44 direct 2755 Sep 26 20:02 14°중43'19 retrograde 2755 Dec 24 19:27 16°중32'50 retrograde 2762 Jul 19 06:01 30°R중 conjunction 2756 Jan 08 13:09 17°중04'15 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29°중58'36 32.51818 AU minimum elong 2756 Jan 08 13:18 17°중04'16 3°58'16 opposition 2762 Jul 22 12:05 29°중55'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°중08'01 33.09369 AU direct 2762 Oct 11 07:06 28°중38'59 "				3 10 43	•			
opposition 2761 Jul 20 06:40 28°₹01'28 0°49'07 direct 2761 Oct 09 00:56 26°₹44'49 evening set 2755 Jan 06 06:01 14°₹58'53 4°33'53 evening set 2762 Jan 04 11:08 28°₹26'54 evening set 2755 Jan 06 06:12 14°₹58'54 4°33'53 evening set 2762 Jan 04 11:08 28°₹26'54 max. Earth dist. 2755 Jan 07 21:48 15°₹30'2'28 32.89262 AU morning rise 2755 Jan 20 19:31 15°₹30'11 conjunction 2762 Jan 19 16:31 28°₹57'48 0°29'20 retrograde 2755 Apr 19 13:22 17°₹20'25 min. Earth dist. 2755 Jul 06 12:36 16°₹04'53 30.99730 AU max. Earth dist. 2755 Jul 08 06:05 16°₹02'14 4°32'38 morning rise 2762 Feb 20 06:53 0°≈ evening set 2755 Dec 24 19:27 16°₹32'50 retrograde 2755 Dec 24 19:27 16°₹32'50 retrograde 2755 Dec 24 19:27 16°₹32'50 retrograde 2756 Jan 08 13:09 17°₹04'15 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29°₹58'36 32.51818 AU minimum elong 2756 Jan 08 13:18 17°₹04'16 3°58'16 opposition 2762 Jul 22 12:05 29°₹55'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°₹08'01 33.09369 AU direct 2762 Oct 11 07:06 28°₹38'59		=			•	•		22 20402 411
Conjunction 2755 Jan 06 06:01 14°558'53 4°33'54 direct 2761 Oct 09 00:56 26°54'4'9 evening set 2762 Jan 04 11:08 28°526'54 max. Earth dist. 2755 Jan 07 21:48 15°50'228 32.89262 AU morning rise 2755 Jan 20 19:31 15°530'11 conjunction 2762 Jan 19 16:31 28°55'48 0°29'20 eretrograde 2755 Apr 19 13:22 17°520'25 minimum elong 2762 Jan 19 16:32 28°55'49 0°29'20 enin. Earth dist. 2755 Jul 06 12:36 16°50'453 30.99730 AU max. Earth dist. 2762 Jan 21 21:13 29°50'218 34.40210 AU opposition 2755 Jul 08 06:05 16°50'214 4°32'38 morning rise 2762 Feb 03 22:12 29°528'44 direct 2755 Dec 24 19:27 16°532'50 retrograde 2762 Jul 29 06:01 30°85 evening set 2756 Jan 08 13:09 17°504'15 3°58'16 opposition 2756 Jan 08 13:18 17°504'16 3°58'16 opposition 2762 Jul 22 12:05 29°555'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°508'01 33.09369 AU direct 2762 Oct 11 07:06 28°538'59	evening set	2734 Dec 22 10.20	14 02/34					
minimum elong max. Earth dist. 2755 Jan 06 06:12 14° 558'54 4°33'53 evening set 2762 Jan 04 11:08 28° 526'54 max. Earth dist. 2755 Jan 07 21:48 15° 502'28 32.89262 AU morning rise 2755 Jan 20 19:31 15° 530'11 conjunction 2762 Jan 19 16:31 28° 557'48 0°29'20 min. Earth dist. 2755 Jul 06 12:36 16° 504'53 30.99730 AU max. Earth dist. 2755 Jul 08 06:05 16° 502'14 4°32'38 morning rise 2762 Feb 03 22:12 29° 528'44 direct 2755 Sep 26 20:02 14° 543'19 2762 Jul 08 06:05 16° 502'15 16° 532'50 retrograde 2755 Jul 08 13:09 17° 504'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30° 素 conjunction 2756 Jan 08 13:18 17° 504'16 3°58'16 opposition 2762 Jul 22 12:05 29° 555'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17° 508'01 33.09369 AU direct 2762 Oct 11 07:06 28° 538'59			=		* *			0°49'07
max. Earth dist. 2755 Jan 07 21:48 15°る02'28 32.89262 AU morning rise 2755 Jan 20 19:31 15°る30'11 conjunction 2762 Jan 19 16:31 28°る57'48 0°29'20 retrograde 2755 Apr 19 13:22 17°る20'25 minimum elong 2762 Jan 19 16:32 28°る57'49 0°29'20 min. Earth dist. 2755 Jul 06 12:36 16°る04'53 30.99730 AU max. Earth dist. 2762 Jan 21 21:13 29°る02'18 34.40210 AU opposition 2755 Jul 08 06:05 16°る02'14 4°32'38 morning rise 2762 Feb 03 22:12 29°る28'44 direct 2755 Sep 26 20:02 14°る43'19 2762 Feb 20 06:53 0°≈ evening set 2755 Dec 24 19:27 16°る32'50 retrograde 2762 Jul 19 06:01 30°Rる conjunction 2756 Jan 08 13:09 17°る04'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°Rる minimum elong 2756 Jan 08 13:18 17°る04'16 3°58'16 opposition 2762 Jul 22 12:05 29°る55'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°る08'01 33.09369 AU direct 2762 Oct 11 07:06 28°る38'59								
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retrograde 2755 Apr 19 13:22 17°る20'25 minimum elong 2762 Jan 19 16:32 28°る57'49 0°29'20 min. Earth dist. 2755 Jul 06 12:36 16°る04'53 30.99730 AU max. Earth dist. 2762 Jan 21 21:13 29°る02'18 34.40210 AU opposition 2755 Jul 08 06:05 16°る02'14 4°32'38 morning rise 2762 Feb 03 22:12 29°る28'44 direct 2755 Sep 26 20:02 14°る43'19 retrograde 2762 Feb 20 06:53 0°≈ evening set 2755 Dec 24 19:27 16°る32'50 retrograde 2762 Jul 19 06:01 30°Rる conjunction 2756 Jan 08 13:09 17°る04'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°Rる axis minimum elong 2756 Jan 08 13:18 17°る04'16 3°58'16 opposition 2762 Jul 22 12:05 29°る55'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°る08'01 33.09369 AU direct 2762 Oct 11 07:06 28°る38'59				32.89262 AU				
min. Earth dist. 2755 Jul 06 12:36 16°る04'53 30.99730 AU max. Earth dist. 2762 Jan 21 21:13 29°る02'18 34.40210 AU opposition 2755 Jul 08 06:05 16°る02'14 4°32'38 morning rise 2762 Feb 03 22:12 29°る28'44 evening set 2755 Dec 24 19:27 16°る32'50 retrograde 2762 May 02 20:27 1°≈11'15 conjunction 2756 Jan 08 13:09 17°る04'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°系号 conjunction 2756 Jan 08 13:18 17°る04'16 3°58'16 opposition 2762 Jul 20 04:56 29°る58'36 32.51818 AU max. Earth dist. 2756 Jan 10 07:09 17°る08'01 33.09369 AU direct 2762 Oct 11 07:06 28°る38'59	morning rise				conjunction	2762 Jan 19 16:31		
opposition 2755 Jul 08 06:05 16°る02'14 4°32'38 morning rise 2762 Feb 03 22:12 29°る28'44 direct 2755 Sep 26 20:02 14°る43'19	retrograde	2755 Apr 19 13:22	17° る 20'25		minimum elong	2762 Jan 19 16:32	28° る 57'49	0°29'20
direct 2755 Sep 26 20:02 14°号43'19 2755 Dec 24 19:27 16°弓32'50 retrograde 2762 May 02 20:27 1°≈11'15 conjunction 2756 Jan 08 13:09 17°弓04'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°Rラ 32:51818 AU minimum elong 2756 Jan 08 13:18 17°弓04'16 3°58'16 opposition 2762 Jul 20 04:56 29°弓58'36 32.51818 AU max. Earth dist. 2756 Jan 10 07:09 17°弓08'01 33.09369 AU direct 2762 Oct 11 07:06 28°弓38'59	min. Earth dist.	2755 Jul 06 12:36	16° る 04'53	30.99730 AU	max. Earth dist.	2762 Jan 21 21:13	29° පි 02'18	34.40210 AU
direct 2755 Sep 26 20:02 14°号43'19 2755 Dec 24 19:27 16°弓32'50 retrograde 2762 May 02 20:27 1°≈11'15 conjunction 2756 Jan 08 13:09 17°弓04'15 3°58'16 min. Earth dist. 2762 Jul 19 06:01 30°Rラ 32:51818 AU minimum elong 2756 Jan 08 13:18 17°弓04'16 3°58'16 opposition 2762 Jul 20 04:56 29°弓58'36 32.51818 AU max. Earth dist. 2756 Jan 10 07:09 17°弓08'01 33.09369 AU direct 2762 Oct 11 07:06 28°弓38'59	opposition	2755 Jul 08 06:05	16° පි 02'14	4°32'38	morning rise	2762 Feb 03 22:12	29° る 28'44	
evening set 2755 Dec 24 19:27 16°32'50 retrograde 2762 May 02 20:27 1°≈11'15 retrograde 2762 Jul 19 06:01 30°Rる conjunction 2756 Jan 08 13:09 17°る04'15 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29°る58'36 32.51818 AU minimum elong 2756 Jan 08 13:18 17°る04'16 3°58'16 opposition 2762 Jul 2 12:05 29°る55'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°る08'01 33.09369 AU direct 2762 Oct 11 07:06 28°る38'59	**	2755 Sep 26 20:02	14° る 43'19		-			
Conjunction 2756 Jan 08 13:09 17° 504'15 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29° 558'36 32.51818 AU minimum elong 2756 Jan 08 13:18 17° 504'16 3°58'16 opposition 2762 Jul 22 12:05 29° 555'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17° 508'01 33.09369 AU direct 2762 Oct 11 07:06 28° 538'59	evening set				retrograde		1°≈11'15	
conjunction 2756 Jan 08 13:09 17°る04'15 3°58'16 min. Earth dist. 2762 Jul 20 04:56 29°る58'36 32.51818 AU minimum elong 2756 Jan 08 13:18 17°る04'16 3°58'16 opposition 2762 Jul 22 12:05 29°る55'13 0°13'12 max. Earth dist. 2756 Jan 10 07:09 17°る08'01 33.09369 AU direct 2762 Oct 11 07:06 28°る38'59	<i>5</i>				3	•		
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max. Earth dist. 2756 Jan 10 07:09 17°♂08'01 33.09369 AU direct 2762 Oct 11 07:06 28°♂38'59								
								0 13 12
morning rise 2/30 Jan 23 U0:42 17 033 40 desc. node 2/62 Dec US 21:US 29 025:35				33.07309 AU				
	morning rise	2/30 Jan 23 U6:42	1/ 035'40		desc. node	2702 Dec 03 21:05	29°O25'55	

	2762 Dec 27 03:24	0° ≈		27(0 E-1, 02, 00,27	110aa42140 26 11615 ATT
		* -	max. Earth dist.	2769 Feb 03 09:37	11°≈43'48 36.11615 AU
evening set	2763 Jan 06 13:11	0° ≈ 20′05	morning rise	2769 Feb 15 17:31	12°≈07'29
			retrograde	2769 May 14 23:55	13°≈45'11
conjunction	2763 Jan 21 18:43	0°≈50'46 -0°04'20	min. Earth dist.	2769 Aug 01 17:41	12°≈35'18 34.24429 AU
minimum elong	2763 Jan 21 18:44	0°≈50'46 0°04'20	opposition	2769 Aug 04 09:32	12°≈31'32 -3°42'25
behind sun begin	2763 Jan 21 12:28	0° ≈ 50'15	direct	2769 Oct 24 06:31	11° ≈ 18′06
behind sun end	2763 Jan 22 01:00	0° ≈ 51'16	evening set	2770 Jan 19 00:48	12° ≈ 53'47
max. Earth dist.	2763 Jan 24 01:55	0°≈55'26 34.63797 AU	ſ		
morning rise	2763 Feb 06 00:32	1° ≈ 21'27	conjunction	2770 Feb 02 18:37	13° ≈ 21'57 -3°44'54
retrograde	2763 May 04 20:45	3°≈03'08	minimum elong	2770 Feb 02 18:30	13° ≈ 21'56 3°44'54
min. Earth dist.	2763 Jul 22 09:07	1°≈50'52 32.75630 AU	_	2770 Feb 05 09:45	13°≈27'00 36.36712 AU
opposition	2763 Jul 24 17:02	1°≈47'28 -0°22'12	morning rise	2770 Feb 17 13:06	13°≈50'09
direct	2763 Oct 13 13:09	0°≈31'40	morning 1130	2770 Apr 02 08:54	15°≈
				•	
evening set	2764 Jan 08 15:08	2° ≈ 11'50	retrograde	2770 May 16 20:52	15° ≈ 27'19
				2770 Jul 02 00:50	15°R≈
conjunction	2764 Jan 23 20:18	2°≈42'14 -0°37'24	min. Earth dist.	2770 Aug 03 18:25	14°≈17'40 34.49694 AU
minimum elong	2764 Jan 23 20:17	2°≈42'14 0°37'24	opposition	2770 Aug 06 10:09	14°≈13'56 -4°13'34
max. Earth dist.	2764 Jan 26 04:38	2°≈46'58 34.87812 AU	direct	2770 Oct 26 09:08	13° ≈ 00'50
morning rise	2764 Feb 08 01:44	3°≈12'40	evening set	2771 Jan 21 01:45	14°≈35'53
retrograde	2764 May 05 21:20	4°≈53'34		2771 Feb 02 19:31	15° ≈
min. Earth dist.	2764 Jul 23 11:03	3°≈41'47 32.99840 AU	ſ		
opposition	2764 Jul 25 21:12	3°≈38'16 -0°57'04	conjunction	2771 Feb 04 16:24	15°≈03'35 -4°14'07
direct	2764 Oct 14 18:10	2°≈22'53	minimum elong	2771 Feb 04 16:16	15°≈03'34 4°14'07
			_		15°≈08'39 36.61909 AU
evening set	2765 Jan 09 17:07	4°≈02'12	max. Earth dist.	2771 Feb 07 07:59	
			morning rise	2771 Feb 19 07:41	15°≈31'20
conjunction	2765 Jan 24 21:19	4°≈32'18 -1°10'00	retrograde	2771 May 18 16:46	17° ≈ 07'58
minimum elong	2765 Jan 24 21:17	4°≈32'18 1°10'01	min. Earth dist.	2771 Aug 05 16:39	15°≈58'41 34.75075 AU
max. Earth dist.	2765 Jan 27 07:05	4°≈37'07 35.12167 AU	opposition	2771 Aug 08 10:04	15°≈54'52 -4°44'03
morning rise	2765 Feb 09 02:03	5°≈02'26		2771 Sep 21 16:09	15°R ≈
retrograde	2765 May 07 23:01	6°≈42'38	direct	2771 Oct 28 11:02	14° ≈ 42'05
min. Earth dist.	2765 Jul 25 13:42	5°≈31'15 33.24396 AU	ſ	2771 Dec 03 00:37	15° ≈
opposition	2765 Jul 28 00:59	5°≈27'41 -1°31'22	evening set	2772 Jan 23 02:31	16° ≈ 16'32
direct	2765 Oct 16 20:36	4°≈12'44	evening sec	2772 van 23 02.51	10 10 10 32
evening set	2766 Jan 11 18:46	5°≈51'14	conjunction	2772 Feb 06 13:29	16°≈43'45 -4°42'44
evening set	2/00 Jan 11 10.40	J 2001 14	•		
	2000	(0. 20150 101010 (minimum elong	2772 Feb 06 13:20	16°≈43'44 4°42'45
conjunction	2766 Jan 26 21:50	6°≈20'59 -1°42'06	max. Earth dist.	2772 Feb 09 06:02	16°≈48'52 36.87227 AU
minimum elong	2766 Jan 26 21:47	6°≈20'59 1°42'07	morning rise	2772 Feb 21 01:20	17° ≈ 11'02
max. Earth dist.	2766 Jan 29 09:24	6°≈25'55 35.36806 AU	retrograde	2772 May 19 13:13	18° ≈ 47'12
morning rise	2766 Feb 11 01:12	6° ≈ 50'48	min. Earth dist.	2772 Aug 06 15:23	17°≈38'12 35.00636 AU
retrograde	2766 May 09 23:35	8° ≈ 30'19	opposition	2772 Aug 09 09:35	17°≈34'22 -5°13'50
min. Earth dist.	2766 Jul 27 15:42	7°≈19'20 33.49190 AU	direct	2772 Oct 29 10:21	16° ≈ 21'54
opposition	2766 Jul 30 04:01	7°≈15'43 -2°05'04	evening set	2773 Jan 24 03:02	17°≈55'49
direct	2766 Oct 19 00:14	6° ≈ 01'11	Č		
evening set	2767 Jan 13 20:38	7° ≈ 38'55	conjunction	2773 Feb 07 10:15	18° ≈ 22'32 -5°10'42
e vennig see	2707 0411 13 20.50	7	minimum elong	2773 Feb 07 10:06	18°≈22'31 5°10'42
conjunction	2767 Jan 28 21:48	8°≈08'19 -2°13'40	max. Earth dist.	2773 Feb 10 04:27	18°≈27'44 37.12739 AU
		8°≈08'19 2°13'40		2773 Feb 10 04:27 2773 Feb 21 18:06	
minimum elong	2767 Jan 28 21:44		morning rise		18°≈49'18
max. Earth dist.	2767 Jan 31 09:31	8°≈13'13 35.61628 AU	Č	2773 May 21 09:27	20°≈25'04
morning rise	2767 Feb 12 23:40	8° ≈ 37'46	min. Earth dist.	2773 Aug 08 13:18	19°≈16′22 35.26393 AU
retrograde	2767 May 12 02:14	10°≈16'39	opposition	2773 Aug 11 08:27	19°≈12'30 -5°42'56
min. Earth dist.	2767 Jul 29 16:25	9°≈06'04 33.74169 AU	direct	2773 Oct 31 09:22	18° ≈ 00′22
opposition	2767 Aug 01 06:19	9°≈02'24 -2°38'09	evening set	2774 Jan 26 03:26	19° ≈ 33'47
direct	2767 Oct 21 00:41	7° ≈ 48'15			
evening set	2768 Jan 15 22:12	9° ≈ 25'16	conjunction	2774 Feb 09 06:19	19°≈59'59 -5°38'02
			minimum elong	2774 Feb 09 06:09	19°≈59'59 5°38'02
conjunction	2768 Jan 30 21:24	9° ≈ 54'17 -2°44'39	max. Earth dist.	2774 Feb 12 00:46	20°≈05'10 37.38439 AU
minimum elong	2768 Jan 30 21:19	9°≈54'16 2°44'39	morning rise	2774 Feb 23 10:12	20°≈26'15
max. Earth dist.			•		20 ≈20 13 22°≈01'38
	2768 Feb 02 10:58	9°≈59'18 35.86581 AU	Č	2774 May 23 07:27	
morning rise	2768 Feb 14 21:02	10°≈23'20	min. Earth dist.	2774 Aug 10 09:53	20°≈53'18 35.52356 AU
retrograde	2768 May 13 00:57	12°≈01'38	opposition	2774 Aug 13 06:47	20°≈49'21 -6°11'19
min. Earth dist.	2768 Jul 30 18:24	10°≈51′20 33.99256 AU		2774 Nov 02 05:43	19° ≈ 37'34
opposition	2768 Aug 02 08:16	10°≈47'41 -3°10'36	evening set	2775 Jan 28 03:37	21° ≈ 10'32
direct	2768 Oct 22 03:23	9° ≈ 33'54			
evening set			. ,.	2775 F 1 11 02 10	2190026112 6904142
	2769 Jan 16 23:36	11° ≈ 10′14	conjunction	2775 Feb 11 02:10	21° ≈ 36′13 -6°04′43
8	2769 Jan 16 23:36	11°≈10′14	minimum elong	2775 Feb 11 02:10 2775 Feb 11 01:59	21°≈36'12 6°04'42
-	2769 Jan 16 23:36 2769 Jan 31 20:12	11°≈10'14 11°≈38'50 -3°15'05	•		
conjunction minimum elong			minimum elong	2775 Feb 11 01:59	21° ≈ 36'12 6°04'42

retrograde	2775 May 25 02:56	23°≈36'59	evening set	2782 Feb 09 01:25	1° ¥ 58'29
retrograde min. Earth dist.	2775 Aug 12 07:40	23 ≈30 39 22°≈28'57 35.78473	evening set	2/82 100 09 01.23	1 1 30 29
opposition	2775 Aug 12 07:40 2775 Aug 15 04:29	22°≈25'01 -6°39'00	conjunction	2782 Feb 21 09:10	2° ₩ 20'11 -8°53'32
**	2775 Nov 04 04:24		3	2782 Feb 21 09:10 2782 Feb 21 08:57	2°\(\frac{7}{20'10}\) 8°53'32
direct		21°≈13'35	minimum elong		
evening set	2776 Jan 30 03:43	22°≈46'09	max. Earth dist.	2782 Feb 24 08:21	2°¥25'26 39.45567 AU
	0000000	222 11110 (222111	morning rise	2782 Mar 05 17:42	2° \ 41'57
conjunction	2776 Feb 12 21:25	23°≈11'18 -6°30'44	retrograde	2782 Jun 04 10:57	4° ∺ 15'28
minimum elong	2776 Feb 12 21:14	23°≈11'17 6°30'45	min. Earth dist.	2782 Aug 23 01:26	3°¥09'26 37.60791 AU
max. Earth dist.	2776 Feb 15 17:39	23°≈16'32 37.90327	rr	2782 Aug 26 00:33	3° ∺ 05'30 -9°33'23
morning rise	2776 Feb 26 16:00	23° ≈ 36'31	direct	2782 Nov 15 01:30	1° ¥ 56′22
retrograde	2776 May 25 23:05	25°≈11'13	evening set	2783 Feb 11 00:37	3° ∺ 27′02
min. Earth dist.	2776 Aug 13 03:10	24°≈03'34 36.04708			.,
opposition	2776 Aug 16 01:47	23°≈59'33 -7°05'59	conjunction	2783 Feb 23 01:46	3° ¥ 48'07 -9°15'09
direct	2776 Nov 05 02:02	22° ≈ 48′28	minimum elong	2783 Feb 23 01:34	3° ¥ 48′06 9°15′09
evening set	2777 Jan 31 03:32	24° ≈ 20'42	max. Earth dist.	2783 Feb 26 00:18	3° 米 53′17 39.70855 AU
			morning rise	2783 Mar 07 03:44	4°) €09'16
conjunction	2777 Feb 13 16:13	24°≈45′18 -6°56′07	retrograde	2783 Jun 06 02:51	5°) 42′38
minimum elong	2777 Feb 13 16:01	24° ≈ 45'17 6°56'07	min. Earth dist.	2783 Aug 24 18:23	4° ₭ 36'54 37.86207 AU
max. Earth dist.	2777 Feb 16 13:55	24°≈50'36 38.16406	AU opposition	2783 Aug 27 18:34	4° ₭ 32'55 -9°55'37
morning rise	2777 Feb 27 05:48	25° ≈ 09'57	direct	2783 Nov 16 20:37	3° ∺ 24'03
retrograde	2777 May 27 17:34	26° ≈ 44'25	evening set	2784 Feb 12 23:31	4°) 54'32
min. Earth dist.	2777 Aug 15 00:25	25°≈37'02 36.30995	AU		
opposition	2777 Aug 17 22:47	25°≈33'02 -7°32'15	conjunction	2784 Feb 24 17:55	5° 升 15′00 -9°36′10
direct	2777 Nov 06 23:29	24° ≈ 22'19	minimum elong	2784 Feb 24 17:42	5°) 14′59 9°36′10
evening set	2778 Feb 02 03:20	25°≈54'13	max. Earth dist.	2784 Feb 27 17:04	5° 升 20'11 39.95993 AU
•			morning rise	2784 Mar 07 13:13	5° ¥ 35'32
conjunction	2778 Feb 15 10:46	26°≈18'15 -7°20'52	retrograde	2784 Jun 06 17:50	7°) €08'49
minimum elong	2778 Feb 15 10:35	26°≈18'14 7°20'52	min. Earth dist.	2784 Aug 25 12:40	6° ¥ 03'15 38.11523 AU
max. Earth dist.	2778 Feb 18 08:51	26°≈23'34 38.42501		2784 Aug 28 12:29	5°) 59'19 -10°17'12
morning rise	2778 Feb 28 18:58	26°≈42'21	direct	2784 Nov 17 15:28	4°) € 50'43
retrograde	2778 May 29 10:19	28°≈16'35	evening set	2785 Feb 13 22:10	6°) €21'03
min. Earth dist.	2778 Aug 16 19:43	27°≈09'32 36.57251	•	2703100 13 22.10	0 7(21 03
opposition	2778 Aug 19 19:00	27°≈05'31 -7°57'50	conjunction	2785 Feb 25 09:40	6°) 40′53 -9°56′33
direct	2778 Nov 08 21:24	25°≈55'09	minimum elong	2785 Feb 25 09:28	6°¥40'52 9°56'33
evening set	2779 Feb 04 03:07	27°≈26'45	max. Earth dist.	2785 Feb 28 09:34	6° ¥ 46'06 40.21058 AU
evening set	27791100 04 03.07	27 ~2043	morning rise	2785 Mar 08 21:49	7°₩00'47
conjunction	2779 Feb 17 04:53	27°≈50'13 -7°44'58	retrograde	2785 Jun 08 07:38	8°) 33′59
	2779 Feb 17 04:33 2779 Feb 17 04:41	27°≈50'12 7°44'57	min. Earth dist.		7° ¥ 28'41 38.36765 AU
minimum elong max. Earth dist.	2779 Feb 17 04.41 2779 Feb 20 02:54			2785 Aug 27 05:23	7° \ 24'44 -10°38'06
		27°≈55'30 38.68516	1.1	2785 Aug 30 05:48	
morning rise	2779 Mar 02 07:40	28°≈13'45	direct	2785 Nov 19 10:48	6° 光 16′24 7° 光 46′37
retrograde	2779 May 31 05:21	29°≈47'46	evening set	2786 Feb 15 20:52	/*大46/3/
min. Earth dist.	2779 Aug 18 15:35	28°≈41'01 36.83417		270/ E 1 27 01 02	001/05/40 1001/010
opposition	2779 Aug 21 15:03	28°≈37'01 -8°22'43	conjunction	2786 Feb 27 01:03	8°\(\frac{1}{2}\)05'49 -10°16'19
direct	2779 Nov 10 16:31	27°≈26'59	minimum elong	2786 Feb 27 00:50	8°\(\frac{1}{2}\)05'48 10°16'19
evening set	2780 Feb 06 02:36	28°≈58'19	max. Earth dist.	2786 Mar 02 00:33	8°¥10'58 40.46062 AU
			morning rise	2786 Mar 10 06:08	8° ∺ 25'06
conjunction	2780 Feb 18 22:41	29°≈21'12 -8°08'26	retrograde	2786 Jun 10 01:26	9° ¥ 58'15
minimum elong	2780 Feb 18 22:29	29°≈21'11 8°08'27	min. Earth dist.	2786 Aug 28 21:32	8°¥53'12 38.61971 AU
max. Earth dist.	2780 Feb 21 21:41	29°≈26'31 38.94398	1.1	2786 Aug 31 22:38	8° ∺ 49'14 -10°58'21
morning rise	2780 Mar 02 19:29	29°≈44'09	direct	2786 Nov 21 01:28	7° ∺ 41'11
	2780 Mar 11 23:27	0° ∺	evening set	2787 Feb 17 19:18	9° ∺ 11'18
retrograde	2780 May 31 23:05	1° ∺ 18′00			.,
min. Earth dist.	2780 Aug 19 11:32	0° ¥ 11'30 37.09406	3	2787 Feb 28 16:14	9° \ 29'53 -10°35'28
opposition	2780 Aug 22 10:39	0° 米 07'32 -8°46'56	minimum elong	2787 Feb 28 16:02	9° ¥ 29'52 10°35'28
	2780 Aug 28 01:39	30°R≈	max. Earth dist.	2787 Mar 03 17:02	9° ¥ 35′06 40.71023 AU
direct	2780 Nov 11 12:01	28° ≈ 57'49	morning rise	2787 Mar 11 13:48	9°) 48'31
	2781 Jan 20 21:25	0°)	retrograde	2787 Jun 11 16:50	11° ∺ 21'39
evening set	2781 Feb 07 02:13	0°) € 28'54	min. Earth dist.	2787 Aug 30 14:41	10°) 16′49 38.87107 AU
			opposition	2787 Sep 02 15:12	10°) 12'53 -11°17'56
conjunction	2781 Feb 19 16:05	0° 米 51'12 -8°31'18	direct	2787 Nov 22 17:51	9° ⊁ 05'08
minimum elong	2781 Feb 19 15:53	0° ¥ 51'11 8°31'17	evening set	2788 Feb 19 17:39	10° ¥ 35'11
max. Earth dist.	2781 Feb 22 14:11	0° ¥ 56′24 39.20088	AU		
morning rise	2781 Mar 04 06:57	1° ¥ 13'34	conjunction	2788 Mar 01 06:50	10° ¥ 53'08 -10°54'01
retrograde	2781 Jun 02 18:30	2° 升 47′15	minimum elong	2788 Mar 01 06:37	10° ¥ 53'07 10°54'01
min. Earth dist.	2781 Aug 21 05:42	1° 米 41′02 37.35204	AU max. Earth dist.	2788 Mar 04 06:58	10° ¥ 58'15 40.95911 AU
opposition	2781 Aug 24 05:48	1° 米 37′02 -9°10′30	morning rise	2788 Mar 11 20:45	11° ∺ 11′07
direct	2781 Nov 13 05:40	0°) €27'37	retrograde	2788 Jun 12 09:00	12°) 44′15

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min. Earth dist.	2788 Aug 31 05:35	11° ¥ 39'44 39.12157 AU	max. Earth dist.	2795 Mar 14 05:33	20° ¥ 19'43 42.63851 AU
opposition	2788 Sep 03 07:25	11° ¥ 35'45 -11°36'53	morning rise	2795 Mar 19 08:22	20°\(\frac{1}{2}\)28'05
direct	2788 Nov 23 08:33	10° ₩ 28'17	retrograde	2795 Jun 22 07:27	22° \ 01'46
evening set	2789 Feb 20 15:53	11°) 58'19	min. Earth dist.	2795 Sep 10 16:06	20° ¥ 58'35 40.80515 AU
evening set	2707100 20 13.33	11 7(301)	opposition	2795 Sep 10 10:00 2795 Sep 13 15:26	20°\(\frac{4}{54'50}\) -13°32'55
conjunction	2789 Mar 02 21:19	12° 升 15'36 -11°11'58	direct	2795 Dec 03 18:52	19° ¥ 49'05
minimum elong	2789 Mar 02 21:19 2789 Mar 02 21:07	12° X 15'35 -11'11'58	evening set	2796 Mar 04 03:36	19 X 49 03 21° X 19′28
Č		12 ★1333 11 1138 12°★20'46 41.20683 AU	evening set	2/90 Mai 04 03.30	21 7 1928
max. Earth dist.	2789 Mar 05 22:25			2706 M 11 10 07	210V21156 12002100
morning rise	2789 Mar 13 03:26	12°) 32′56	conjunction	2796 Mar 11 19:07	21°\(\frac{1}{3}\)1'56 -13°02'09
retrograde	2789 Jun 13 23:13	14° 米 06′06	minimum elong	2796 Mar 11 18:56	21°\(\frac{1}{3}\)3'55 13°02'09
min. Earth dist.	2789 Sep 01 22:27	13° 米 01'46 39.37074 AU	max. Earth dist.	2796 Mar 14 17:48	21° X 36'45 42.86545 AU
opposition	2789 Sep 04 23:21	12° ¥ 57′51 -11°55′12	morning rise	2796 Mar 19 11:02	21° X 44'25
direct	2789 Nov 25 00:57	11° ¥ 50'41	retrograde	2796 Jun 22 18:43	23° ¥ 18′16
evening set	2790 Feb 22 14:09	13° ∺ 20'43	min. Earth dist.	2796 Sep 11 06:33	22° 米 15′11 41.03289 AU
			opposition	2796 Sep 14 05:07	22° 升 11'30 -13°47'16
conjunction	2790 Mar 04 11:32	13° 米 37′21 -11°29′20	direct	2796 Dec 04 09:30	21° 米 05′56
minimum elong	2790 Mar 04 11:19	13° 米 37′20 11°29′20	evening set	2797 Mar 06 01:58	22° 升 36′28
max. Earth dist.	2790 Mar 07 12:20	13°) 42′28 41.45301 AU			
morning rise	2790 Mar 14 09:27	13° ¥ 54′01	conjunction	2797 Mar 13 07:26	22°) 48'11 -13°15'47
retrograde	2790 Jun 15 11:40	15°) 27′14	minimum elong	2797 Mar 13 07:15	22° 升 48′10 13°15′48
min. Earth dist.	2790 Sep 03 13:24	14° 米 23′10 39.61783 AU	max. Earth dist.	2797 Mar 16 06:31	22° 升 53′00 43.09017 AU
opposition	2790 Sep 06 14:47	14° 升 19'15 -12°12'55	morning rise	2797 Mar 20 13:06	22° 升 59'55
direct	2790 Nov 26 17:54	13°) 12′20	retrograde	2797 Jun 24 04:56	24°) €33'57
evening set	2791 Feb 24 12:24	14°) 42′24	min. Earth dist.	2797 Sep 12 19:47	23°) 31′03 41.25845 AU
			opposition	2797 Sep 15 18:15	23° 升 27′21 -14°01′04
conjunction	2791 Mar 06 01:25	14° ¥ 58'21 -11°46'08	direct	2797 Dec 06 00:46	22° 升 22′00
minimum elong	2791 Mar 06 01:14	14° ¥ 58'21 11°46'08	evening set	2798 Mar 08 00:26	23° ¥ 52'43
max. Earth dist.	2791 Mar 09 01:44	15° 米 03'25 41.69671 AU	C		
morning rise	2791 Mar 15 15:08	15°) 14′22	conjunction	2798 Mar 14 19:18	24° 升 03'40 -13°28'54
retrograde	2791 Jun 17 01:26	16°) 47′39	minimum elong	2798 Mar 14 19:08	24°) 03'39 13°28'54
min. Earth dist.	2791 Sep 05 05:08	15° ¥ 43'48 39.86234 AU	max. Earth dist.	2798 Mar 17 17:25	24°) €08'23 43.31296 AU
opposition	2791 Sep 08 05:58	15° ¥ 39'55 -12°30'02	morning rise	2798 Mar 21 14:28	24°)(14'38
direct	2791 Nov 28 09:37	14°) €33'17	retrograde	2798 Jun 25 18:29	25°)(48'54
evening set	2792 Feb 26 10:40	16° ₭ 03'22	min. Earth dist.	2798 Sep 14 08:21	24°)(46'11 41.48232 AU
evening see	2/32100 20 100	10 7(03 22	opposition	2798 Sep 17 07:10	24°) 42'30 -14°14'19
conjunction	2792 Mar 06 15:15	16° ¥ 18'39 -12°02'23	direct	2798 Dec 07 12:41	23° ¥ 37′21
minimum elong	2792 Mar 06 15:03	16° ₭ 18'38 12°02'22	evening set	2799 Mar 09 23:03	25° ₭ 08'19
max. Earth dist.	2792 Mar 09 16:03	16° ★ 23'43 41.93755 AU	evening set	2777 Widi 07 25.05	23 7(001)
morning rise	2792 Mar 15 20:15	16° ¥ 33'59	conjunction	2799 Mar 16 07:02	25° 升 18′28 -13°41′30
retrograde	2792 Jun 17 14:39	18° ¥ 07′22	minimum elong	2799 Mar 16 06:52	25° ¥ 18'27 13°41'31
min. Earth dist.	2792 Sep 05 20:47	17° 米 03'41 40.10349 AU	max. Earth dist.	2799 Mar 19 06:11	25°\(\)23'14 43.53409 AU
opposition		16°\(\)59'51 -12°46'35		2799 Mar 22 15:08	25°\(\)23'14\(\)43.33409'\(\)A0\(\)
direct	2792 Sep 08 20:52 2792 Nov 29 01:39	16 ★3931 -12 4633 15°¥53'28	morning rise	2799 Mai 22 13.08 2799 Jun 27 07:13	23 K 2839 27° ₩ 03'11
		17° ¥ 23'36	retrograde		26°\(\)00'37 41.70440 AU
evening set	2793 Feb 27 08:55	1/天2550	min. Earth dist.	2799 Sep 15 21:54 2799 Sep 18 19:45	25°\(\frac{1}{10037}\) 41.70440 AU 25°\(\frac{1}{100}\) -14°27'01
	2702 M 00 04 25	170 12012 1201010	opposition		
conjunction	2793 Mar 08 04:35	17°) (38'12 -12°18'06	direct	2799 Dec 09 00:21	24° 光 52'05
minimum elong	2793 Mar 08 04:24	17°) (38'11 12°18'06	evening set	2800 Mar 10 22:09	26° ∺ 23'19
max. Earth dist.	2793 Mar 11 03:55	17°) 43'08 42.17487 AU		2000 16 16 10 27	260V2240 12052125
morning rise	2793 Mar 17 00:48	17° ¥ 52'50	conjunction	2800 Mar 16 18:27	26°\(\frac{13}{32}\)'40 -13°53'35
retrograde	2793 Jun 19 06:46	19° ∺ 26'19	minimum elong	2800 Mar 16 18:18	26°\(\frac{1}{32}\)'39 13°53'35
min. Earth dist.	2793 Sep 07 11:03	18° ¥ 22'50 40.34103 AU	max. Earth dist.	2800 Mar 19 16:38	26° ¥ 37'20 43.75362 AU
opposition	2793 Sep 10 11:28	18° ¥ 19′01 -13°02′34	morning rise	2800 Mar 22 14:53	26°) 42′01
direct	2793 Nov 30 13:54	17° ¥ 12'51	retrograde	2800 Jun 27 20:26	28° ¥ 16'53
evening set	2794 Mar 01 07:10	18° ∺ 43'03	min. Earth dist.	2800 Sep 16 09:17	27° 米 14'34 41.92474 AU
			opposition	2800 Sep 19 08:05	27° 米 10′54 -14°39′11
conjunction	2794 Mar 09 17:53	18° ¥ 56′57 -12°33′18	direct	2800 Dec 09 10:20	26° 米 06′13
minimum elong	2794 Mar 09 17:41	18° ¥ 56′56 12°33′17	evening set	2801 Mar 12 21:28	27°) 37′49
max. Earth dist.	2794 Mar 12 17:38	19° 米 01'53 42.40844 AU			
morning rise	2794 Mar 18 05:00	19° 升 10′53	conjunction	2801 Mar 18 05:34	27°) 46′18 -14°05′10
retrograde	2794 Jun 20 19:50	20°) 44′28	minimum elong	2801 Mar 18 05:24	27°) 46'18 14°05'10
min. Earth dist.	2794 Sep 09 02:50	19° 米 41'05 40.57477 AU	max. Earth dist.	2801 Mar 21 04:01	27° ₭ 50'59 43.97119 AU
opposition	2794 Sep 12 01:38	19° ∺ 37′21 -13°18′01	morning rise	2801 Mar 23 13:45	27° 升 54'48
direct	2794 Dec 02 04:14	18° ∺ 31′24	retrograde	2801 Jun 29 06:17	29° ∺ 30′04
evening set	2795 Mar 03 05:31	20° 米 01'41	min. Earth dist.	2801 Sep 17 22:44	28°) 27′53 42.14296 AU
			opposition	2801 Sep 20 20:17	28° 升 24'18 -14°50'50
conjunction	2795 Mar 11 06:46	20° 升 14′52 -12°47′59	direct	2801 Dec 10 23:32	27° ¥ 19′51
minimum elong	2795 Mar 11 06:35	20° 升 14'52 12°47'59	evening set	2802 Mar 14 21:51	28° 升 51'52

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conjunction	2802 Mar 19 16:43	28° ¥ 59'27	-14°16'16	opposition	2808 Sep 29 02:07	6° Ƴ 44'11	-15°59'18
minimum elong	2802 Mar 19 16:35	28° ¥ 59′27	14°16'16	direct	2808 Dec 19 07:38	5° Ƴ 41'06	
max. Earth dist.	2802 Mar 22 15:05	29°) 04'07	44.18653 AU				
morning rise	2802 Mar 24 11:34	29°) €07'02		conjunction	2809 Mar 27 16:39	7° Υ 17'27	-15°21'35
	2802 Apr 29 12:58	0°Υ		minimum elong	2809 Mar 27 16:33		15°21'35
		• •		· ·			
retrograde	2802 Jun 30 14:38	0° Y 42'45		max. Earth dist.	2809 Mar 30 10:59	· ·	45.59025 AU
	2802 Sep 03 10:40	30°Ŗ ℋ		retrograde	2809 Jul 08 14:01	8° Ƴ 57'38	
min. Earth dist.	2802 Sep 19 10:24	29°) (40'47	42.35847 AU	min. Earth dist.	2809 Sep 27 19:55	7° Y 56′32	43.75926 AU
opposition	2802 Sep 22 07:55	29°) 37'13	-15°01'59	opposition	2809 Sep 30 12:15	7° Y 53′18	-16°07'19
direct	2802 Dec 12 13:41	28° ¥ 33'00		direct	2809 Dec 20 20:13	6° Y 50′21	
411.000	2803 Mar 13 10:20	0°Υ			2007 200 20 20:15	0 , 0021	
		0° Υ 05'33			2010 M 20, 02-02	8° Y 26'15	15020112
evening set	2803 Mar 16 23:11	0 10333		conjunction	2810 Mar 29 02:03		
				minimum elong	2810 Mar 29 01:58		15°29'14
conjunction	2803 Mar 21 03:30	0° Υ 12'09	-14°26'53	max. Earth dist.	2810 Mar 31 18:57	8° Ƴ 30'24	45.77670 AU
minimum elong	2803 Mar 21 03:21	0° Υ 12'08	14°26'54	retrograde	2810 Jul 10 01:38	10° Y ′06′01	
max. Earth dist.	2803 Mar 24 00:42	0° Υ 16'42	44.39887 AU	min. Earth dist.	2810 Sep 29 05:16	9° Y 05'05	43.94577 AU
morning rise	2803 Mar 25 07:47	0° Υ 18'44		opposition	2810 Oct 01 21:58	9° Y 01'50	
retrograde	2803 Jul 02 02:49	1° Υ 55'00		direct	2810 Dec 22 04:27	7° Υ ′59'03	10 1133
-			42 57002 ATT	unect	2010 Dec 22 04.27	/ 13903	
min. Earth dist.	2803 Sep 20 22:32		42.57083 AU			••	
opposition	2803 Sep 23 19:35	0° Ƴ 49'41	-15°12'39	conjunction	2811 Mar 30 11:19	9° Ƴ 34'31	
	2803 Nov 08 23:34	30°Ŗ ℋ		minimum elong	2811 Mar 30 11:14	9° Ƴ 34'31	15°36'25
direct	2803 Dec 14 01:00	29°)(45'43		max. Earth dist.	2811 Apr 02 04:36	9° Ƴ 38'40	45.96077 AU
	2804 Jan 17 05:57	$0^{\circ}\Upsilon$		retrograde	2811 Jul 11 11:27	11° Υ 13'52	
evening set	2804 Mar 18 02:20	1°Υ18'54		min. Earth dist.	2811 Sep 30 16:27	10° ℃ 13'00	44.12988 AU
evening set	2004 Mai 10 02.20	1 11034			•	10° Υ 09'51	
				opposition	2811 Oct 03 07:44		-16-22-01
conjunction	2804 Mar 21 14:10	1° Y 24′23		direct	2811 Dec 23 13:11	9° Ƴ 07'14	
minimum elong	2804 Mar 21 14:03	1° Y 24'22	14°37'04				
max. Earth dist.	2804 Mar 24 11:47	1° Y 28'56	44.60773 AU	conjunction	2812 Mar 30 20:16	10° Ƴ 42'18	-15°43'13
morning rise	2804 Mar 25 01:56	1° Y 29'51		minimum elong	2812 Mar 30 20:11	10° Ƴ 42'17	15°43'14
retrograde	2804 Jul 02 13:40	3° Y 06'49		max. Earth dist.	2812 Apr 02 13:00	10° ℃ 46'23	46.14266 AU
min. Earth dist.	2804 Sep 21 11:21		42.77922 AU	retrograde	2812 Jul 11 19:43	12° Υ 21'14	10.1 1200 110
		2° Υ 01'42		Č			44.31159 AU
opposition	2804 Sep 24 07:02		-13-2232	min. Earth dist.	2812 Oct 01 01:29		
direct	2804 Dec 14 13:09	0° Ƴ 57'56		opposition	2812 Oct 03 17:13	11° Ƴ 17′23	-16°28'42
				**			
evening set	2805 Mar 20 08:54	2° Ƴ 31'59		direct	2812 Dec 23 22:04	10° Ƴ 14'56	
evening set	2805 Mar 20 08:54	2° Ƴ 31'59		direct	2812 Dec 23 22:04	10° Ƴ 14'56	
evening set conjunction	2805 Mar 20 08:54 2805 Mar 23 00:44	2°Υ31'59 2°Υ36'08	-14°46'48	direct	2812 Dec 23 22:04 2813 Apr 01 05:07	10°Υ14'56 11°Υ49'37	-15°49'36
conjunction		2° Y 36'08		conjunction	2813 Apr 01 05:07	11° Y '49'37	
conjunction minimum elong	2805 Mar 23 00:44 2805 Mar 23 00:35	2° Y 36'08 2° Y 36'08	-14°46'48 14°46'48	conjunction minimum elong	2813 Apr 01 05:07 2813 Apr 01 05:03	11° Υ 49'37 11° Υ 49'37	15°49'36
conjunction minimum elong morning rise	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24	2° Y 36'08 2° Y 36'08 2° Y 40'17	14°46'48	conjunction minimum elong max. Earth dist.	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07	11° Y 49'37 11° Y 49'37 11° Y 53'39	
conjunction minimum elong morning rise max. Earth dist.	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34	2° Y 36'08 2° Y 36'08 2° Y 40'17 2° Y 40'33		conjunction minimum elong max. Earth dist. retrograde	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02	11° Y '49'37 11° Y '49'37 11° Y '53'39 13° Y '28'11	15°49'36 46.32201 AU
conjunction minimum elong morning rise max. Earth dist. retrograde	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47	2°Y36'08 2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07	14°46'48 44.81252 AU	conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37	15°49'36 46.32201 AU 44.49073 AU
conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist.	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21	2°Y36'08 2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38	14°46'48 44.81252 AU 42.98334 AU	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33	11° Y 49'37 11° Y 49'37 11° Y 53'39 13° Y 28'11 12° Y 27'37 12° Y 24'30	15°49'36 46.32201 AU 44.49073 AU
conjunction minimum elong morning rise max. Earth dist. retrograde	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47	2°Y36'08 2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07	14°46'48 44.81252 AU 42.98334 AU	conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37	15°49'36 46.32201 AU 44.49073 AU
conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist.	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21	2°Y36'08 2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38	14°46'48 44.81252 AU 42.98334 AU	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33	11° Y 49'37 11° Y 49'37 11° Y 53'39 13° Y 28'11 12° Y 27'37 12° Y 24'30	15°49'36 46.32201 AU 44.49073 AU
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conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21 2805 Sep 25 18:08 2805 Dec 15 21:27	2°Y36'08 2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38 3°Y13'12 2°Y09'37	14°46'48 44.81252 AU 42.98334 AU	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33 2813 Dec 25 07:26	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37 12°Y24'30 11°Y22'14	15°49'36 46.32201 AU 44.49073 AU -16°34'58 -15°55'35
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conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21 2805 Sep 25 18:08 2805 Dec 15 21:27 2806 Mar 23 00:23 2806 Mar 24 11:07 2806 Mar 24 11:01	2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38 3°Y13'12 2°Y09'37 3°Y45'07	14°46'48 44.81252 AU 42.98334 AU -15°32'37	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33 2813 Dec 25 07:26 2814 Apr 02 13:55 2814 Apr 02 13:55 2814 Apr 05 06:12 2814 Jul 14 10:55	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37 12°Y24'30 11°Y22'14 12°Y56'33 12°Y56'33 13°Y00'35 14°Y34'46	15°49'36 46.32201 AU 44.49073 AU -16°34'58 -15°55'35 15°55'36 46.49865 AU
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conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct evening set conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21 2805 Sep 25 18:08 2805 Dec 15 21:27 2806 Mar 23 00:23 2806 Mar 24 11:07 2806 Mar 24 11:01 2806 Mar 25 21:41 2806 Mar 27 06:50 2806 Jul 05 14:15 2806 Sep 24 11:11 2806 Sep 27 05:08 2806 Dec 17 07:02 2807 Mar 25 21:14 2807 Mar 25 21:14 2807 Mar 25 21:07 2807 Mar 28 16:04 2807 Sep 28 15:39 2807 Dec 18 19:09	2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38 3°Y13'12 2°Y09'37 3°Y45'07 3°Y47'22 3°Y47'22 3°Y49'36 3°Y51'45 5°Y28'54 4°Y27'29 4°Y24'08 3°Y20'44 4°Y58'01 4°Y58'01 5°Y02'20 6°Y39'05 5°Y37'49 5°Y34'29 4°Y31'14	14°46'48 44.81252 AU 42.98334 AU -15°32'37 -14°56'08 14°56'08 45.01285 AU 43.18294 AU -15°41'57 -15°05'02 15°05'02 45.20892 AU 43.37832 AU -15°50'51 -15°13'31 15°13'32	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist.	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33 2813 Dec 25 07:26 2814 Apr 02 13:59 2814 Apr 02 13:55 2814 Apr 05 06:12 2814 Jul 14 10:55 2814 Oct 03 21:43 2814 Oct 06 11:39 2814 Dec 26 18:48 2815 Apr 03 22:30 2815 Apr 03 22:28 2815 Apr 06 13:00 2815 Jul 15 21:24 2815 Oct 05 06:55 2815 Oct 07 20:36 2815 Dec 28 03:00 2816 Apr 04 07:06 2816 Apr 04 07:03 2816 Apr 06 21:42 2816 Jul 16 07:57 2816 Oct 05 17:47	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37 12°Y24'30 11°Y22'14 12°Y56'33 13°Y00'35 14°Y34'46 13°Y34'20 13°Y31'15 12°Y29'10 14°Y03'07 14°Y03'07 14°Y07'02 15°Y41'00 14°Y40'43 14°Y37'40 13°Y35'46 15°Y09'23 15°Y09'22 15°Y13'16 16°Y46'55 15°Y46'42	15°49'36 46.32201 AU 44.49073 AU -16°34'58 -15°55'35 15°55'36 46.49865 AU 44.66663 AU -16°40'50 -16°01'11 16°01'10 46.67186 AU 44.83889 AU -16°46'19 -16°06'25 46.84108 AU 45.00678 AU
conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct evening set conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. copposition direct	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21 2805 Sep 25 18:08 2805 Dec 15 21:27 2806 Mar 23 00:23 2806 Mar 24 11:07 2806 Mar 24 11:01 2806 Mar 25 21:41 2806 Mar 27 06:50 2806 Jul 05 14:15 2806 Sep 24 11:11 2806 Sep 27 05:08 2806 Dec 17 07:02 2807 Mar 25 21:14 2807 Mar 25 21:14 2807 Mar 25 21:07 2807 Mar 25 21:07 2807 Mar 28 16:04 2807 Jul 06 21:35 2807 Sep 25 21:38 2807 Sep 28 15:39 2807 Dec 18 19:09	2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38 3°Y13'12 2°Y09'37 3°Y45'07 3°Y47'22 3°Y47'22 3°Y49'36 3°Y51'45 5°Y28'54 4°Y27'29 4°Y24'08 3°Y20'44 4°Y58'01 4°Y58'01 5°Y02'20 6°Y39'05 5°Y37'49 5°Y34'29 4°Y31'14	14°46'48 44.81252 AU 42.98334 AU -15°32'37 -14°56'08 14°56'08 45.01285 AU 43.18294 AU -15°41'57 -15°05'02 15°05'02 45.20892 AU 43.37832 AU -15°50'51	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33 2813 Dec 25 07:26 2814 Apr 02 13:59 2814 Apr 02 13:55 2814 Apr 05 06:12 2814 Jul 14 10:55 2814 Oct 03 21:43 2814 Oct 06 11:39 2814 Dec 26 18:48 2815 Apr 03 22:30 2815 Apr 03 22:28 2815 Apr 06 13:00 2815 Jul 15 21:24 2815 Oct 05 06:55 2815 Oct 07 20:36 2816 Apr 04 07:06 2816 Apr 04 07:03 2816 Apr 06 21:42 2816 Jul 16 07:57	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37 12°Y24'30 11°Y22'14 12°Y56'33 12°Y56'33 13°Y00'35 14°Y34'46 13°Y34'20 13°Y31'15 12°Y29'10 14°Y03'07 14°Y03'07 14°Y07'02 15°Y41'00 14°Y40'43 14°Y37'40 13°Y35'46 15°Y09'23 15°Y09'22 15°Y13'16 16°Y46'55	15°49'36 46.32201 AU 44.49073 AU -16°34'58 -15°55'35 15°55'36 46.49865 AU 44.66663 AU -16°40'50 -16°01'11 16°01'10 46.67186 AU 44.83889 AU -16°46'19 -16°06'25 46.84108 AU 45.00678 AU
conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct evening set conjunction minimum elong morning rise max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	2805 Mar 23 00:44 2805 Mar 23 00:35 2805 Mar 25 16:24 2805 Mar 25 20:34 2805 Jul 04 02:47 2805 Sep 22 22:21 2805 Sep 25 18:08 2805 Dec 15 21:27 2806 Mar 23 00:23 2806 Mar 24 11:07 2806 Mar 24 11:01 2806 Mar 25 21:41 2806 Mar 27 06:50 2806 Jul 05 14:15 2806 Sep 24 11:11 2806 Sep 27 05:08 2806 Dec 17 07:02 2807 Mar 25 21:14 2807 Mar 25 21:14 2807 Mar 25 21:07 2807 Mar 25 21:07 2807 Mar 28 16:04 2807 Jul 06 21:35 2807 Sep 28 15:39 2807 Dec 18 19:09 2808 Mar 26 07:00 2808 Mar 26 07:00 2808 Mar 26 07:00	2°Y36'08 2°Y40'17 2°Y40'33 4°Y18'07 3°Y16'38 3°Y13'12 2°Y09'37 3°Y45'07 3°Y47'22 3°Y47'22 3°Y49'36 3°Y51'45 5°Y28'54 4°Y27'29 4°Y24'08 3°Y20'44 4°Y58'01 4°Y58'01 5°Y02'20 6°Y39'05 5°Y37'49 5°Y34'29 4°Y31'14	14°46'48 44.81252 AU 42.98334 AU -15°32'37 -14°56'08 14°56'08 45.01285 AU 43.18294 AU -15°41'57 -15°05'02 15°05'02 45.20892 AU 43.37832 AU -15°50'51 -15°13'31 15°13'32	conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist.	2813 Apr 01 05:07 2813 Apr 01 05:03 2813 Apr 03 21:07 2813 Jul 13 04:02 2813 Oct 02 11:49 2813 Oct 05 02:33 2813 Dec 25 07:26 2814 Apr 02 13:59 2814 Apr 02 13:55 2814 Apr 05 06:12 2814 Jul 14 10:55 2814 Oct 03 21:43 2814 Oct 06 11:39 2814 Dec 26 18:48 2815 Apr 03 22:30 2815 Apr 03 22:28 2815 Apr 06 13:00 2815 Jul 15 21:24 2815 Oct 05 06:55 2815 Oct 07 20:36 2815 Dec 28 03:00 2816 Apr 04 07:06 2816 Apr 04 07:03 2816 Apr 06 21:42 2816 Jul 16 07:57 2816 Oct 05 17:47	11°Y49'37 11°Y49'37 11°Y53'39 13°Y28'11 12°Y27'37 12°Y24'30 11°Y22'14 12°Y56'33 13°Y00'35 14°Y34'46 13°Y34'20 13°Y31'15 12°Y29'10 14°Y03'07 14°Y03'07 14°Y07'02 15°Y41'00 14°Y40'43 14°Y37'40 13°Y35'46 15°Y09'23 15°Y09'22 15°Y13'16 16°Y46'55 15°Y46'42	15°49'36 46.32201 AU 44.49073 AU -16°34'58 -15°55'35 15°55'36 46.49865 AU 44.66663 AU -16°40'50 -16°01'11 16°01'10 46.67186 AU 44.83889 AU -16°46'19 -16°06'25 46.84108 AU 45.00678 AU

min. Earth dist.

2808 Sep 26 09:00

6°**Υ**47'28 43.57031 AU

	2017 1 05 15 24	1 (000) 511 7 1 (01) 117		2025 X 1 26 01 25	0.00000054
conjunction	2817 Apr 05 15:34	16° Y 15'17 -16°11'17	retrograde	2825 Jul 26 01:37	26° Y 22'54
minimum elong	2817 Apr 05 15:33	16° Y 15'17 16°11'17	min. Earth dist.	2825 Oct 15 23:45	25°Υ23'29 46.32486 AU
max. Earth dist.	2817 Apr 08 04:39	16° Y 19'05 47.00578 AU	opposition	2825 Oct 18 04:46	25° Y 20'55 -17°21'43
retrograde	2817 Jul 17 16:52	17° Y 52′29	direct	2826 Jan 07 12:39	24° Ƴ 20′22
min. Earth dist.	2817 Oct 07 02:28	16° Y 52'25 45.16973 AU			
opposition	2817 Oct 09 14:09	16° Ƴ 49'29 -16°56'11	conjunction	2826 Apr 15 12:29	25° Y 50'49 -16°40'03
direct	2817 Dec 29 17:36	15° Ƴ 47'54	minimum elong	2826 Apr 15 12:31	25° Y 50'49 16°40'02
			max. Earth dist.	2826 Apr 17 19:08	25° Y 54'07 48.30215 AU
conjunction	2818 Apr 06 23:55	17° Y 20'50 -16°15'50	retrograde	2826 Jul 27 10:00	27° Y °25′13
minimum elong	2818 Apr 06 23:52	17° Υ 20'50 16°15'50	min. Earth dist.	2826 Oct 17 08:22	26° Υ 25'51 46.45471 AU
max. Earth dist.	2818 Apr 09 11:37	17° Y 24'32 47.16533 AU	opposition	2826 Oct 17 08:22 2826 Oct 19 11:49	$26^{\circ}\Upsilon^{23'22} - 17^{\circ}23'20$
	•		11		
retrograde	2818 Jul 18 23:42	18° Y 57'41	direct	2827 Jan 08 20:19	25° Y 22'58
min. Earth dist.	2818 Oct 08 12:49	17° Y 57'40 45.32758 AU			
opposition	2818 Oct 10 22:36	17° Y ′54'49 -17°00'36	conjunction	2827 Apr 16 19:31	26° Y 53'09 -16°41'34
direct	2818 Dec 31 03:17	16° Ƴ 53′23	minimum elong	2827 Apr 16 19:32	26° Y 53'10 16°41'34
			max. Earth dist.	2827 Apr 19 00:37	26° Y 56′21 48.42998 AU
conjunction	2819 Apr 08 08:10	18° Ƴ 25'59 -16°20'04	retrograde	2827 Jul 28 19:51	28° Ƴ 27'18
minimum elong	2819 Apr 08 08:10	18° Y 25'59 16°20'04	min. Earth dist.	2827 Oct 18 15:17	27° Y 28'04 46.58076 AU
max. Earth dist.	2819 Apr 10 19:38	18° Y ′29'39 47.32000 AU	opposition	2827 Oct 20 18:47	27° Υ 25'35 -17°24'38
retrograde	2819 Jul 20 04:44	20° Υ 02'29	direct	2828 Jan 10 00:37	26° Υ 25'19
min. Earth dist.	2819 Oct 09 21:54	19° Υ 02'32 45.48051 AU	direct	2020 Jan 10 00.57	20 23 19
				2020 4 17 02 22	2520055116 16242146
opposition	2819 Oct 12 06:52	18° Y 59'44 -17°04'41	conjunction	2828 Apr 17 02:22	27° Y 55'16 -16°42'46
direct	2820 Jan 01 14:40	17° Ƴ 58'26	minimum elong	2828 Apr 17 02:24	27° Υ 55'16 16°42'46
			max. Earth dist.	2828 Apr 19 06:32	27°Υ58'23 48.55359 AU
conjunction	2820 Apr 08 15:54	19° Ƴ 30'41 -16°23'57	retrograde	2828 Jul 29 02:41	29° Ƴ 29'09
minimum elong	2820 Apr 08 15:52	19° Ƴ 30'40 16°23'57	min. Earth dist.	2828 Oct 19 00:24	28° Y 29'57 46.70233 AU
max. Earth dist.	2820 Apr 11 01:29	19° Ƴ 34'13 47.47011 AU	opposition	2828 Oct 21 01:49	28° Y 27'34 -17°25'37
retrograde	2820 Jul 20 13:52	21° Y 06'51	direct	2829 Jan 10 06:38	27° Ƴ 27'25
min. Earth dist.	2820 Oct 10 06:27	20° Υ '07'00 45.62930 AU			_, , _, _,
opposition	2820 Oct 10 00:27 2820 Oct 12 15:02	20° Υ 04'13 -17°08'25	conjunction	2829 Apr 18 09:27	28° Y 57'07 -16°43'41
		19° Υ 03'02	•	•	28° Υ 57'07 -10 43'41 28° Υ 57'07 16°43'41
direct	2821 Jan 01 22:35	19 7 03 02	minimum elong	2829 Apr 18 09:29	
			max. Earth dist.	2829 Apr 20 13:01	29° Υ 00'12 48.67253 AU
conjunction	2821 Apr 09 23:46	20° Y '34'56 -16°27'30		2829 Jun 05 12:58	0° 8
minimum elong	2821 Apr 09 23:46	20° Υ '34'56 16°27'30	retrograde	2829 Jul 30 06:18	0° ႘ 30'44
max. Earth dist.	2821 Apr 12 09:34	20° Ƴ 38'29 47.61632 AU		2829 Sep 24 09:57	30° ₹Ƴ
retrograde	2821 Jul 21 22:18	22° Ƴ 10'48	min. Earth dist.	2829 Oct 20 07:50	29° Υ 31'36 46.81878 AU
min. Earth dist.	2821 Oct 11 15:59	21° Υ ′10'58 45.77437 AU	opposition	2829 Oct 22 08:28	29° Y 29'16 -17°26'20
opposition	2821 Oct 13 22:52	21° Y ′08'17 -17°11'47	direct	2830 Jan 11 15:07	28° Y 29'13
direct	2822 Jan 03 06:45	20° Υ 07'13	uncet	2030 3411 11 13.07	20 27 13
uncet	2022 Jan 03 00.43	20 10/15	conjunction	2830 Apr 19 16:18	29° Υ 58'40 -16°44'20
	2022 4 11 07 25	21° Ƴ 38'48 -16°30'42	•	-	
conjunction	2822 Apr 11 07:25		minimum elong	2830 Apr 19 16:22	
minimum elong	2822 Apr 11 07:24	21° Υ 38'48 16°30'41		2830 Apr 20 14:34	0° 8
max. Earth dist.	2822 Apr 13 15:59	21° Υ 42'15 47.75929 AU	max. Earth dist.	2830 Apr 21 17:34	0° ႘ 01'36 48.78624 AU
retrograde	2822 Jul 23 07:01	23° Ƴ 14'19	retrograde	2830 Jul 31 12:34	1° 8 32'01
min. Earth dist.	2822 Oct 12 23:18	22° Y 14'38 45.91631 AU	min. Earth dist.	2830 Oct 21 15:40	0° ႘ 32'56 46.93001 AU
opposition	2822 Oct 15 06:30	22° Ƴ 11'56 -17°14'48	opposition	2830 Oct 23 15:13	0° ႘ 30'39 -17°26'45
direct	2823 Jan 04 12:03	21° Ƴ 10′59		2830 Nov 20 12:35	30° ₹Ƴ
			direct	2831 Jan 12 22:51	29° Ƴ 30'41
conjunction	2823 Apr 12 14:45	22° Y 42'17 -16°33'33		2831 Mar 05 22:40	0° 8
minimum elong	2823 Apr 12 14:45	22° Υ '42'17 16°33'33			
max. Earth dist.	2823 Apr 14 22:43	22° Y 45'40 47.89917 AU	conjunction	2831 Apr 20 23:00	0° 8 59'52 -16°44'43
	-	24° Y 17'29	•	-	.T.
retrograde	2823 Jul 24 14:21		minimum elong	2831 Apr 20 23:02	0° 8 59'52 16°44'43
min. Earth dist.	2823 Oct 14 08:20	23° Y 17′51 46.05536 AU	max. Earth dist.	2831 Apr 23 00:02	1° 8 02'47 48.89477 AU
opposition	2823 Oct 16 14:08	23° Y 15'14 -17°17'28	retrograde	2831 Aug 01 18:08	2° 8 32'58
direct	2824 Jan 05 18:10	22° Ƴ 14′25	min. Earth dist.	2831 Oct 22 23:59	1° 8 33'51 47.03609 AU
			opposition	2831 Oct 24 21:46	1° 8 31'40 -17°26'54
conjunction	2824 Apr 12 22:10	23° Y '45'25 -16°36'03	direct	2832 Jan 14 07:37	0° ୪ 31'46
minimum elong	2824 Apr 12 22:11	23° Y 45'25 16°36'03			
max. Earth dist.	2824 Apr 15 06:07	23° Υ '48'48 48.03642 AU	conjunction	2832 Apr 21 05:33	2° 8 00'41 -16°44'49
retrograde	2824 Jul 24 18:42	25° Υ 20'20	minimum elong	2832 Apr 21 05:37	2°800'42 16°44'49
min. Earth dist.		24° Υ 20'49 46.19155 AU	max. Earth dist.	-	2°803'30 48.99865 AU
	2824 Oct 14 15:52			2832 Apr 23 04:57	
opposition	2824 Oct 16 21:28	24° Y 18'13 -17°19'46	retrograde	2832 Aug 02 02:21	3° 8 33'30
direct	2825 Jan 06 04:06	23° Y 17'32	min. Earth dist.	2832 Oct 23 06:23	2° 8 34'28 47.13782 AU
			opposition	2832 Oct 25 04:04	2° 8 32'17 -17°26'46
conjunction	2825 Apr 14 05:16	24° Y 48'15 -16°38'13	direct	2833 Jan 14 12:39	1° 8 32'27
minimum elong	2825 Apr 14 05:16	24° Υ 48'15 16°38'14			
max. Earth dist.	2825 Apr 16 11:37	24° Υ 51'32 48.17084 AU	conjunction	2833 Apr 22 11:56	3° 8 01'07 -16°44'38
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minimum elong 2833 Apr 22 11:59 3°\begin{align*} 30\begin{align*} 30\begin	7°12'07 5°29'58 5°29'58 .84998 AU
retrograde 2833 Aug 03 10:14 4°833'40 direct 2842 Jan 23 18:44 10°827'32 min. Earth dist. 2833 Oct 24 14:30 3°834'37 47.23571 AU opposition 2833 Oct 26 10:22 3°832'45 minimum elong 2842 May 01 18:02 11°854'37 16 minimum elong 2834 Apr 23 18:20 4°801'11 -16°44'09 min. Earth dist. 2842 May 03 08:04 11°856'49 49 conjunction 2834 Apr 23 18:25 4°801'12 16°44'09 min. Earth dist. 2842 Nov 03 01:16 12°826'57 47 max. Earth dist. 2834 Apr 25 16:36 4°803'55 49.19464 AU opposition 2843 Aug 04 13:57 5°833'29 direct 2843 Jan 24 23:25 11°826'18 min. Earth dist. 2834 Oct 25 20:32 4°834'30 47.33024 AU opposition 2834 Oct 27 16:15 4°832'24 -17°25'36 conjunction 2843 May 02 23:48 12°853'14 -16 direct 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 Aug 13 21:35 14°823'55 minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17°25'30 poposition 2843 Nov 05 18:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17°25'30 poposition 2843 Nov 05 18:50 13°823'44 -17°25'3	5°29'58 5°29'58 .84998 AU .96768 AU
min. Earth dist. 2833 Oct 24 14:30 3°834'37 47.23571 AU opposition 2833 Oct 26 10:22 3°832'31 -17°26'20 conjunction 2842 May 01 18:02 11°854'37 -16 direct 2834 Jan 15 16:59 2°832'45 minimum elong 2842 May 01 18:07 11°854'37 16 conjunction 2834 Apr 23 18:20 4°801'11 -16°44'09 retrograde 2842 Aug 12 13:08 13°825'28 minimum elong 2834 Apr 23 18:25 4°801'12 16°44'09 min. Earth dist. 2842 Nov 03 01:16 12°826'57 47 max. Earth dist. 2834 Aug 04 13:57 5°833'29 direct 2843 Jan 24 23:25 11°826'18 min. Earth dist. 2834 Oct 25 20:32 4°834'30 47.33024 AU opposition 2834 Oct 27 16:15 4°832'24 -17°25'36 conjunction 2843 May 02 23:48 12°853'14 -16 direct 2835 Jan 17 00:06 3°832'43 minimum elong 2843 May 04 12:39 12°855'21 49 conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17°	5°29'58 .84998 AU .96768 AU
min. Earth dist. 2833 Oct 24 14:30 3°\begin{array}{cccccccccccccccccccccccccccccccccccc	5°29'58 .84998 AU .96768 AU
opposition 2833 Oct 26 10:22 3°\begin{align*} 3\circ 232'31 & -17\circ 26'20 & conjunction 2842 May 01 & 18:02 & 11\circ 55'4'37 & -16' \\ \begin{align*} 2\circ 834 \extrm{ Jan 15 } & 16:59 & 2\circ 832'45 & minimum elong max. Earth dist. 2842 May 03 & 08:04 & 11\circ 856'49 & 49' \\ \begin{align*} 2\circ 834 \extrm{ Apr 23 } & 18:20 & 4\circ 801'11 & -16\circ 44'09 & retrograde & 2842 \extrm{ Aug 03 } & 08:04 & 11\circ 856'49 & 49' \\ \begin{align*} 2\circ 834 \extrm{ Apr 23 } & 18:20 & 4\circ 801'12 & 16\circ 44'09 & min. Earth dist. & 2842 \extrm{ Nov 03 } & 01:16 & 12\circ 826'57 & 47' \\ \begin{align*} \textrm{ max. Earth dist.} & 2834 \extrm{ Apr 25 } & 16:36 & 4\circ 803'55 & 49.19464 \extrm{ AU } & opposition & 2842 \extrm{ Nov 04 } & 13:25 & 12\circ 825'14 & -17' \\ \begin{align*} \textrm{ min. Earth dist.} & 2834 \extrm{ Aug 04 } & 13:57 & 5\circ 833'29 & direct & 2843 \extrm{ Jan 24 } & 23:25 & 11\circ 826'18 \\ \begin{align*} \textrm{ min. Earth dist.} & 2834 \extrm{ Oct 25 } & 20:32 & 4\circ 834'30 & 47.33024 \extrm{ AU } \\ \textrm{ opposition } & 2834 \extrm{ Oct 27 } & 16:15 & 4\circ 832'24 & -17\circ 25'36 & conjunction & 2843 \extrm{ May 02 } & 23:56 & 12\circ 853'14 & 16' \\ \textrm{ minimum elong } & 2843 \extrm{ May 04 } & 12:39 & 12\circ 853'14 & 16' \\ \textrm{ minimum elong } & 2835 \extrm{ Apr 25 } & 00:26 & 5\circ 800'56 & -16\circ 43'23 & retrograde & 2843 \extrm{ Aug 04 } & 12:39 & 12\circ 855'21 & 49' \\ \textrm{ conjunction } & 2835 \extrm{ Apr 25 } & 00:26 & 5\circ 800'56 & 16\circ 43'22 & min. Earth dist. & 2843 \extrm{ Nov 04 } & 08:50 & 13\circ 825'20 & 48' \\ \textrm{ max. Earth dist. } & 2835 \extrm{ Apr 26 } & 21:02 & 5\circ 803'33 & 49.28785 \extrm{ AU opposition } & 2843 \extrm{ Nov 05 } & 18:50 & 13\circ 823'44 & -17' \extrm{ Aug 123 } \\ \textrm{ minimum elong } & 2843 \extrm{ Nov 05 } & 18:50 & 13\circ 823'44 & -17' \extrm{ Aug 123 } \\ \textrm{ max. Earth dist. } & 2843 \extrm{ Nov 05 } & 18:50 & 13\circ 823'44 & -17' \extrm{ Aug 123 } \\ max. Ea	5°29'58 .84998 AU .96768 AU
direct 2834 Jan 15 16:59 2°\begin{align*} 2832 45 minimum elong max. Earth dist. 2842 May 01 18:07 11°\begin{align*} 2842 May 03 08:04 11°\begin{align*} 2856'49 49 max. Earth dist. 2842 Aug 12 13:08 13°\begin{align*} 2856'49 49 min. Earth dist. 2842 Aug 12 13:08 13°\begin{align*} 2856'49 49 min. Earth dist. 2842 Nov 03 01:16 12°\begin{align*} 2856'57 47 max. Earth dist. 2834 Apr 25 16:36 4°\begin{align*} 3832'52 49.19464 AU opposition 2842 Nov 04 13:25 12°\begin{align*} 2842 Nov 04 13:25 12°\begin{align*} 2843 Jan 24 23:25 11°\begin{align*} 2843 Jan 24 23:25 12°\begin{align*} 2843 Jan 24 23:25 12°\b	5°29'58 .84998 AU .96768 AU
max. Earth dist. 2842 May 03 08:04 11°\begin{array}{c} 11°\begin{array}{c} 56'49 49 \\ conjunction 2834 Apr 23 18:20 4°\begin{array}{c} 4°\begin{array}{c} 801'11 -16°44'09 & retrograde 2842 Aug 12 13:08 13°\begin{array}{c} 25'28 \\ minimum elong 2834 Apr 23 18:25 4°\begin{array}{c} 801'12 16°44'09 & min. Earth dist. 2842 Nov 03 01:16 12°\begin{array}{c} 226'57 47 \\ max. Earth dist. 2834 Apr 25 16:36 4°\begin{array}{c} 4°\begin{array}{c} 803'55 49.19464 AU & opposition 2842 Nov 04 13:25 12°\begin{array}{c} 25'14 -17 \\ retrograde 2834 Aug 04 13:57 5°\begin{array}{c} 5°\begin{array}{c} 833'29 & direct 2843 Jan 24 23:25 11°\begin{array}{c} 25'18 & 11°\begin{array}{c} 26'18 & 12°\begin{array}{c} 25'14 -17 \\ opposition 2834 Oct 25 20:32 4°\begin{array}{c} 834'30 47.33024 AU & opposition 2843 May 02 23:48 12°\begin{array}{c} 23'14 -16 \\ direct 2835 Jan 17 00:06 3°\begin{array}{c} 832'43 & minimum elong 2843 May 02 23:56 12°\begin{array}{c} 25'51'14 -16 \\ max. Earth dist. 2843 May 04 12:39 12°\begin{array}{c} 25'5'21 49 \\ conjunction 2835 Apr 25 00:26 5°\begin{array}{c} 5°\begin{array}{c} 800'56 -16°43'23 & retrograde 2843 Aug 13 21:35 14°\begin{array}{c} 23'55 13°\begin{array}{c} 25'20 48 \\ max. Earth dist. 2835 Apr 26 21:02 5°\begin{array}{c} 800'56 16°43'22 & min. Earth dist. 2843 Nov 04 08:50 13°\begin{array}{c} 25'20 48 \\ max. Earth dist. 2835 Apr 26 21:02 5°\begin{array}{c} 803'33 49.28785 AU & opposition 2843 Nov 05 18:50 13°\begin{array}{c} 23'44 -17'\end{array} 4.12' 13' 13' 23'44 -17' 13' 13' 23'44 -17' 13' 13' 23'44 -17' 13' 13' 13' 23'44 -17' 13' 13' 13' 23'44 -17' 13' 13' 13' 13' 23'44 -17' 13' 13' 13' 13' 13' 23'44 -17' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13' 13'\t	.84998 AU .96768 AU
conjunction 2834 Apr 23 18:20 4°801'11 -16°44'09 retrograde 2842 Aug 12 13°825'28 minimum elong 2834 Apr 23 18:25 4°801'12 16°44'09 min. Earth dist. 2842 Nov 03 01:16 12°826'57 47 max. Earth dist. 2834 Apr 25 16:36 4°803'55 49.19464 AU opposition 2842 Nov 04 13:25 12°825'14 -17 retrograde 2834 Aug 04 13:57 5°833'29 direct 2843 Jan 24 23:25 11°826'18 min. Earth dist. 2834 Oct 25 20:32 4°834'30 47.33024 AU 40	.96768 AU
minimum elong 2834 Apr 23 18:25 4°801'12 16°44'09 min. Earth dist. 2842 Nov 03 01:16 12°826'57 47 max. Earth dist. 2834 Apr 25 16:36 4°803'55 49.19464 AU opposition 2842 Nov 04 13:25 12°825'14 -17 retrograde 2834 Aug 04 13:57 5°833'29 direct 2843 Jan 24 23:25 11°826'18 min. Earth dist. 2834 Oct 25 20:32 4°834'30 47.33024 AU opposition 2834 Oct 27 16:15 4°832'24 -17°25'36 conjunction 2843 May 02 23:48 12°853'14 -16 direct 2835 Jan 17 00:06 3°832'43 minimum elong 2843 May 02 23:56 12°853'14 16 max. Earth dist. 2843 May 04 12:39 12°855'21 49 conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 May 04 12:39 12°855'21 49 minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17°823'44 -17°813'44 1850 13°823'44 -17°813'44 1850 13°823'44	
max. Earth dist. 2834 Apr 25 16:36 4°803'55 49.19464 AU opposition 2842 Nov 04 13:25 12°825'14 -17 direct 2843 Jan 24 23:25 11°826'18 min. Earth dist. 2834 Oct 25 20:32 4°834'30 47.33024 AU opposition 2834 Oct 27 16:15 4°832'24 -17°25'36 conjunction 2843 May 02 23:48 12°853'14 -16 direct 2835 Jan 17 00:06 3°832'43 minimum elong 2843 May 02 23:56 12°853'14 16 max. Earth dist. 2843 May 04 12:39 12°855'21 49 conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 May 04 12:35 14°823'55 minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	
retrograde 2834 Aug 04 13:57 5°\&33'29 direct 2843 Jan 24 23:25 11°\&26'18 min. Earth dist. 2834 Oct 25 20:32 4°\&34'30 47.33024 AU opposition 2834 Oct 27 16:15 4°\&32'24 -17°25'36 conjunction 2843 May 02 23:48 12°\&53'14 -16'\ direct 2835 Jan 17 00:06 3°\&32'43 minimum elong 2843 May 02 23:56 12°\&53'14 16'\ max. Earth dist. 2843 May 04 12:39 12°\&55'21 49 conjunction 2835 Apr 25 00:26 5°\&00'56 -16°\&43'23 retrograde 2843 Aug 13 21:35 14°\&23'55 minimum elong 2835 Apr 25 00:30 5°\&00'56 16°\&43'22 min. Earth dist. 2843 Nov 04 08:50 13°\&25'20 48 max. Earth dist. 2835 Apr 26 21:02 5°\&03'33 49.28785 AU opposition 2843 Nov 05 18:50 13°\&23'44 -17	7°09'09
min. Earth dist. 2834 Oct 25 20:32 4°834'30 47.33024 AU opposition 2834 Oct 27 16:15 4°832'24 -17°25'36 conjunction 2843 May 02 23:48 12°853'14 -16 direct 2835 Jan 17 00:06 3°832'43 minimum elong 2843 May 02 23:56 12°853'14 16 conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 May 04 12:39 12°855'21 49 max. Earth dist. 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	
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direct 2835 Jan 17 00:06 3°832'43 minimum elong 2843 May 02 23:56 12°853'14 16 max. Earth dist. 2843 May 04 12:39 12°855'21 49 conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 Aug 13 21:35 14°823'55 minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	
direct 2835 Jan 17 00:06 3°832'43 minimum elong 2843 May 02 23:56 12°853'14 16 max. Earth dist. 2843 May 04 12:39 12°855'21 49 conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 Aug 13 21:35 14°823'55 minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	5°27'02
max. Earth dist. 2843 May 04 12:39 12°\text{S55'21} 49 conjunction 2835 Apr 25 00:26 5°\text{\$00'56} -16°\text{43'23} retrograde 2843 Aug 13 21:35 14°\text{\$23'55} minimum elong 2835 Apr 25 00:30 5°\text{\$00'56} 16°\text{\$43'22} min. Earth dist. 2843 Nov 04 08:50 13°\text{\$25'20} 48 max. Earth dist. 2835 Apr 26 21:02 5°\text{\$03'33} 49.28785 AU opposition 2843 Nov 05 18:50 13°\text{\$23'44} -17	
conjunction 2835 Apr 25 00:26 5°800'56 -16°43'23 retrograde 2843 Aug 13 21:35 14°823'55 minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	
minimum elong 2835 Apr 25 00:30 5°800'56 16°43'22 min. Earth dist. 2843 Nov 04 08:50 13°825'20 48 max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	.91221 110
max. Earth dist. 2835 Apr 26 21:02 5°803'33 49.28785 AU opposition 2843 Nov 05 18:50 13°823'44 -17	02/00 411
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	05'55
retrograde 2835 Aug 05 18:55 6°\delta33'00 direct 2844 Jan 26 02:15 12°\delta24'51	
min. Earth dist. 2835 Oct 27 03:20 5° 8 34'04 47.42197 AU	
opposition 2835 Oct 28 22:17 5°\delta 32'01 -17°24'33 conjunction 2844 May 03 05:26 13°\delta 51'37 -16	5°23'53
direct 2836 Jan 18 07:12 4°♂32'25 minimum elong 2844 May 03 05:32 13°♂51'37 16	5°23'52
max. Earth dist. 2844 May 04 17:33 13° $\mbox{6}$ 53'42 49	.96961 AU
conjunction 2836 Apr 25 06:28 6°800'25 -16°42'18 2844 Jun 28 05:38 15°8	
minimum elong 2836 Apr 25 06:33 6°800'25 16°42'18 retrograde 2844 Aug 14 02:03 15°822'07	
1	
retrograde 2836 Aug 06 00:18 7°\delta 32'17 opposition 2844 Nov 05 23:58 14°\delta 22'00 -17	
min. Earth dist. 2836 Oct 27 10:26 6°\delta33'23 47.51081 AU min. Earth dist. 2844 Nov 04 14:20 14°\delta23'34 48	.08134 AU
opposition 2836 Oct 29 04:13 6°\delta 31'24 -17°23'12 direct 2845 Jan 26 06:39 13°\delta 23'08	
direct 2837 Jan 18 15:11 5° ୪ 31'53	
conjunction 2845 May 04 10:59 14°♂49'45 -16	5°20'28
conjunction 2837 Apr 26 12:29 6°\(\delta 59'43\) -16°\(40'56\) minimum elong 2845 May 04 11:07 14°\(\delta 49'46\) 16	5°20'28
minimum elong 2837 Apr 26 12:34 6°\(259'43\) 16°\(40'55\) max. Earth dist. 2845 May 05 21:10 14°\(251'43\) 50	.02256 AU
max. Earth dist. 2837 Apr 28 08:01 7°802'15 49.46610 AU 2845 May 11 21:36 15°8	
retrograde 2837 Aug 07 09:02 8°\mathred{831'23} retrograde 2845 Aug 15 05:41 16°\mathred{820'04}	
	12170 AII
opposition 2837 Oct 30 09:49 7°\mathred{8}30'37 -17°21'32 opposition 2845 Nov 07 05:00 15°\mathred{8}19'59 -16)°58'44
direct 2838 Jan 19 18:51 6°\mathrm{\mathrm{8}}31'12 2845 Nov 25 05:59 15°\mathrm{\mathrm{8}}	
direct 2846 Jan 27 13:13 14° \(2 21'10\)	
conjunction 2838 Apr 27 18:27 7°\mathred{8}58'52 -16°39'16 2846 Mar 30 03:04 15°\mathred{\mathred{8}}	
minimum elong 2838 Apr 27 18:32 7°\(\S_0 \)58'\(\S_0 \)59'\(\S_0 \) 16'\(\S_0 \)9'\(\S_0 \)	
max. Earth dist. 2838 Apr 29 13:19 8°801'22 49.55083 AU conjunction 2846 May 05 16:35 15°847'38 -16	5°16'48
retrograde 2838 Aug 08 15:55 9°\delta 30'22 minimum elong 2846 May 05 16:42 15°\delta 47'38 16	5°16'48
min. Earth dist. 2838 Oct 29 23:35 8°\delta31'37 47.67969 AU max. Earth dist. 2846 May 07 02:49 15°\delta49'36 50	
opposition 2838 Oct 31 15:35 8°\(\frac{8}{2}29'43 \) -17°\(\frac{1}{9}'35 \) retrograde 2846 Aug 16 07:43 17°\(\frac{1}{3}17'47 \)	.07172110
	17056 AII
direct 2839 Jan 20 22:45 7°\begin{array}{cccccccccccccccccccccccccccccccccccc	
opposition 2846 Nov 08 09:59 16°8√17′44 -16)°54'45
conjunction 2839 Apr 29 00:18 8°\(\frac{857}{56} \) -16°\(37'20 \) direct 2847 Jan 28 22:11 15°\(\frac{818}{58} \)	
minimum elong 2839 Apr 29 00:25 8°\(8 ^{57}\)'56 16°37'19	
max. Earth dist. 2839 Apr 30 18:51 9°800'24 49.63226 AU conjunction 2847 May 06 21:50 16°845'16 -16	5°12'53
retrograde 2839 Aug 09 19:41 10°\(29'16\) minimum elong 2847 May 06 21:58 16°\(245'17\) 16	°12'53
min. Earth dist. 2839 Oct 31 05:22 9°\mathred{8}30'37 47.75875 AU max. Earth dist. 2847 May 08 06:29 16°\mathred{8}47'09 50	.11760 AU
opposition 2839 Nov 01 21:07 9°\begin{array}{cccccccccccccccccccccccccccccccccccc	
direct 2840 Jan 22 04:46 8°829'33 min. Earth dist. 2847 Nov 08 07:47 17°816'45 48	22222 AU
opposition 2847 Nov 09 14:54 17°815'17 -16	
conjunction 2840 Apr 29 06:08 9°\begin{array}{c c c c c c c c c c c c c c c c c c c	. 5050
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minimum elong 2840 Apr 29 06:13 9°\S56'56 16°35'08	000142
max. Earth dist. 2840 Apr 30 22:35 9°\mathbb{S}5'16 49.70966 AU conjunction 2848 May 07 03:11 17°\mathbb{S}42'43 -16	
retrograde 7940 Aug 10 00.47 110≥10104 minimum -1 2040 M 07 02.10 170 40144 17	
retrograde 2840 Aug 10 00:47 11° 8 28'06 minimum elong 2848 May 07 03:19 17° 8 42'44 16	.16040 AU
min. Earth dist. 2840 Oct 31 12:17 10°829'29 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°844'33 50	
min. Earth dist. 2840 Oct 31 12:17 10°829'29 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°844'33 50	5°45'59
min. Earth dist. 2840 Oct 31 12:17 10°829'29 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°844'33 50 opposition 2840 Nov 02 02:39 10°827'40 -17°14'52 retrograde 2848 Aug 17 21:51 19°812'35	
min. Earth dist. 2840 Oct 31 12:17 10°\mathbb{\mathbb{Z}29'29} 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°\mathbb{\mathbb{Z}44'33} 50 opposition 2840 Nov 02 02:39 10°\mathbb{\mathbb{Z}27'40} -17°14'52 retrograde 2848 Aug 17 21:51 19°\mathbb{\mathbb{Z}12'35} direct 2841 Jan 22 11:01 9°\mathbb{\mathbb{Z}28'35} opposition min. Earth dist. 2848 Nov 09 19:49 18°\mathbb{\mathbb{Z}12'39} -16°\mathbb{\mathbb{Z}12'10} 48	
min. Earth dist. 2840 Oct 31 12:17 10°\mathbb{Z}29'29 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°\mathbb{Z}44'33 50 opposition 2840 Nov 02 02:39 10°\mathbb{Z}27'40 -17°14'52 retrograde 2848 Aug 17 21:51 19°\mathbb{Z}12'35 direct 2841 Jan 22 11:01 9°\mathbb{Z}28'35 opposition 2848 Nov 09 19:49 18°\mathbb{Z}12'39 -16 opposition min. Earth dist. 2848 Nov 08 14:31 18°\mathbb{Z}14'02 48 conjunction 2841 Apr 30 12:09 10°\mathbb{Z}55'50 -16°\mathbb{Z}2'40 direct 2849 Jan 30 06:19 17°\mathbb{Z}13'57	
min. Earth dist. 2840 Oct 31 12:17 10°829'29 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°844'33 50 opposition 2840 Nov 02 02:39 10°827'40 -17°14'52 retrograde 2848 Aug 17 21:51 19°812'35 direct 2841 Jan 22 11:01 9°828'35 opposition 2848 Nov 09 19:49 18°812'39 -16 min. Earth dist. 2848 Nov 08 14:31 18°814'02 48 conjunction 2841 Apr 30 12:09 10°855'50 -16°32'40 direct 2849 Jan 30 06:19 17°813'57 minimum elong 2841 Apr 30 12:16 10°855'50 16°32'39	.26288 AU
min. Earth dist. 2840 Oct 31 12:17 10°\mathbb{Z}29'29 47.83359 AU max. Earth dist. 2848 May 08 11:12 17°\mathbb{Z}44'33 50 opposition 2840 Nov 02 02:39 10°\mathbb{Z}27'40 -17°14'52 retrograde 2848 Aug 17 21:51 19°\mathbb{Z}12'35 direct 2841 Jan 22 11:01 9°\mathbb{Z}28'35 opposition 2848 Nov 09 19:49 18°\mathbb{Z}12'39 -16 opposition min. Earth dist. 2848 Nov 08 14:31 18°\mathbb{Z}14'02 48 conjunction 2841 Apr 30 12:09 10°\mathbb{Z}55'50 -16°\mathbb{Z}2'40 direct 2849 Jan 30 06:19 17°\mathbb{Z}13'57	.26288 AU 5°04'15

max. Earth dist.	2849 May 09 16:15	18° 8 41'50 50.2	20038 AU	min. Earth dist.	2857 Nov 17 17:45	26° 8 46'15	48.44288 AU
retrograde	2849 Aug 19 02:26	20° 8 09'44		direct	2858 Feb 08 02:32	25° 8 46'56	
min. Earth dist.	2849 Nov 09 19:18	19° 8 11'15 48.3	30046 AU				
opposition	2849 Nov 11 00:33	19° 8 09'52 -16°	41'11	conjunction	2858 May 17 07:50		
direct	2850 Jan 31 10:18	18° 8 11'14		minimum elong	2858 May 17 08:01		
				max. Earth dist.	2858 May 18 03:51		50.36839 AU
conjunction	2850 May 09 13:48	19° 8 37'12 -15°		retrograde	2858 Aug 28 00:38		
minimum elong	2850 May 09 13:56	19° 8 37'13 15°.		opposition	2858 Nov 19 17:46	_	
max. Earth dist.	2850 May 10 19:31	19° 8 38'54 50.2	23715 AU	min. Earth dist.	2858 Nov 19 00:07	_	48.43960 AU
retrograde	2850 Aug 20 06:50	21° 8 06'48		direct	2859 Feb 09 05:37	26° 8 43'25	
min. Earth dist.	2850 Nov 11 01:16	20° 8 08'19 48.3			2050 16 10 12 5	200	15007152
opposition	2850 Nov 12 05:17	20° 8 07'00 -16°:	36'07	conjunction	2859 May 18 12:56		
direct	2851 Feb 01 14:37	19° 8 08'25		minimum elong	2859 May 18 13:05		
aaniumatian	2051 May 10, 10,00	20° 8 34'19 -15°	5.412.5	max. Earth dist.	2859 May 19 08:29	_	50.36456 AU
conjunction minimum elong	2851 May 10 19:08 2851 May 10 19:16	20° 8 34'20 15°		retrograde opposition	2859 Aug 29 04:55 2859 Nov 20 22:01		15940112
max. Earth dist.	2851 May 12 00:56	20° 8 36'01 50.2		min. Earth dist.	2859 Nov 20 04:17	_	48.43303 AU
retrograde	2851 Aug 21 10:00	22° 8 03'49	27047 AU	direct	2860 Feb 10 09:06		40.43303 AO
min. Earth dist.	2851 Nov 12 07:23	21° 8 05'21 48.3	36526 ATT	direct	2800 100 10 09.00	27 03948	
opposition	2851 Nov 12 07:25 2851 Nov 13 10:01	21° 8 04'06 -16°		conjunction	2860 May 18 17:48	29° 8 05'09	-14°59'54
direct	2852 Feb 02 21:32	20° 8 05'35	30 17	minimum elong	2860 May 18 17:58		
	2002100 02 21.52	20 000 00		max. Earth dist.	2860 May 19 11:29		50.35758 AU
conjunction	2852 May 11 00:19	21° 8 31'24 -15°	49'23	man. Bartir dist.	2860 Jul 01 07:11		50.55750110
minimum elong	2852 May 11 00:28	21° 8 31'24 15°4		retrograde	2860 Aug 29 09:02		
max. Earth dist.	2852 May 12 04:15	21° 8 32'59 50.2	29978 AU	S	2860 Oct 28 13:29		
retrograde	2852 Aug 21 16:15	23° 8 00'49		min. Earth dist.	2860 Nov 20 09:58		48.42349 AU
opposition	2852 Nov 13 14:41	22° 8 01'10 -16°	25'16	opposition	2860 Nov 21 02:24	29° 8 34'29	-15°32'50
min. Earth dist.	2852 Nov 12 12:34	22° 8 02'23 48.3	39134 AU	direct	2861 Feb 10 12:49	28° 8 36'07	
direct	2853 Feb 03 02:20	21° 8 02'42		evening set	2861 May 17 22:05	29° 8 58'42	
					2861 May 18 21:04	I 0°	
conjunction	2853 May 12 05:43	22° 8 28'27 -15°	43'57				
minimum elong	2853 May 12 05:51	22° 8 28'28 15°	43'57	conjunction	2861 May 19 22:57	0° Ⅱ 01'28	-14°52'39
max. Earth dist.	2853 May 13 08:19	22° 8 29'58 50.3	32415 AU	minimum elong	2861 May 19 23:08	0° Ⅱ 01'28	14°52'38
retrograde	2853 Aug 22 23:47	23° 8 57'47		max. Earth dist.	2861 May 20 16:47		50.34764 AU
opposition	2853 Nov 14 19:21	22° 8 58'12 -16°		morning rise	2861 May 22 00:14		
min. Earth dist.	2853 Nov 13 19:36	22° 8 59'19 48.4	41221 AU	retrograde	2861 Aug 30 11:04		
direct	2854 Feb 04 05:38	21° 8 59'46		opposition	2861 Nov 22 06:34		
				min. Earth dist.	2861 Nov 21 15:09		48.41088 AU
conjunction	2854 May 13 11:10	23° 8 25'28 -15°.			2861 Dec 21 04:12		
minimum elong	2854 May 13 11:21	23° 8 25'28 15°:		direct	2862 Feb 11 19:46		
max. Earth dist.	2854 May 14 12:45	23° 8 26'55 50.3	34325 AU		2862 Apr 04 09:49		
retrograde	2854 Aug 24 05:13	24° 8 54'42	12121	evening set	2862 May 18 06:41	0° I I53'52	
opposition	2854 Nov 15 23:56	23° 8 55'10 -16°			20/2 M 21 02-53	00 T 57146	1.49.4511.0
min. Earth dist. direct	2854 Nov 15 00:42 2855 Feb 05 08:43	23° 8 56'15 48.4 22° 8 56'45	+2/30 AU	conjunction minimum elong	2862 May 21 03:57 2862 May 21 04:07		-14°45'10 14°45'11
direct	2033 100 03 00.43	22 03043		max. Earth dist.	2862 May 21 20:07		50.33478 AU
conjunction	2855 May 14 16:15	24° 8 22'23 -15°	22128	morning rise	2862 May 24 01:40		30.33478 AU
minimum elong	2855 May 14 16:24	24° 8 22'23 -15°.		retrograde	2862 Aug 31 16:18		
max. Earth dist.	2855 May 15 15:28	24° 8 23'42 50.3		opposition	2862 Nov 23 10:48		-15°17'17
retrograde	2855 Aug 25 09:55	25° 8 51'31		min. Earth dist.	2862 Nov 22 19:40		48.39523 AU
min. Earth dist.	2855 Nov 16 07:10	24° 8 53'01 48.4	13742 AU	direct	2863 Feb 13 00:32		
opposition	2855 Nov 17 04:37	24° 8 52'01 -16°		evening set	2863 May 18 19:29		
direct	2856 Feb 06 13:41	23° 8 53'37		-	-		
				conjunction	2863 May 22 08:49	1° I I54'07	-14°37'27
conjunction	2856 May 14 21:35	25° 8 19'11 -15°	26'25	minimum elong	2863 May 22 09:00	1° I I54′08	14°37'26
minimum elong	2856 May 14 21:46	25° 8 19'11 15°	26'26	max. Earth dist.	2863 May 23 00:06	1° Ⅱ 54'59	50.31855 AU
max. Earth dist.	2856 May 15 20:29	25° 8 20'29 50.3	36510 AU	morning rise	2863 May 25 22:42		
retrograde	2856 Aug 25 11:22	26° 8 48'14		retrograde	2863 Sep 01 23:33		
opposition	2856 Nov 17 09:03	25° 8 48'44 -16°		opposition	2863 Nov 24 15:11		
min. Earth dist.	2856 Nov 16 12:58	25° 8 49'41 48.4	14230 AU	min. Earth dist.	2863 Nov 24 01:57		48.37598 AU
direct	2857 Feb 06 21:51	24° 8 50'21		direct	2864 Feb 14 04:06		
				evening set	2864 May 18 10:57	2° Ⅱ 44'58	
conjunction	2857 May 16 02:44	26° 8 15'50 -15°		_		_	
minimum elong	2857 May 16 02:53		20'08	conjunction	2864 May 22 13:59		-14°29'29
max. Earth dist.	2857 May 16 23:38	26° 8 17'01 50.3	56884 AU	minimum elong	2864 May 22 14:10		14°29'30
retrograde	2857 Aug 26 17:29	27° 8 44'48	5411.5	max. Earth dist.	2864 May 23 04:39		50.29860 AU
opposition	2857 Nov 18 13:25	26° 8 45'20 -15°	754'15	morning rise	2864 May 26 17:34	2° ∏ 56′09	

1 miletary 1 men					
retrograde	2864 Sep 02 06:39	4° Ⅱ 19'12	minimum elong	2871 May 30 02:10	9° Ⅱ 25'01 13°27'51
opposition	2864 Nov 24 19:17	3° П 19'57 -15°00'4	_	2871 May 30 07:35	9° П 25'20 50.02400 AU
min. Earth dist.	2864 Nov 24 06:29	3° П 20'32 48.3525		2871 Jun 06 04:18	9° П 34'36
direct	2865 Feb 14 05:26	2° П 21'38	retrograde	2871 Sep 09 12:20	10° Д 53'34
evening set	2865 May 19 03:50	3° Ⅱ 40'44	opposition	2871 Dec 02 00:51	9° П 54'12 -13°56'03
evening set	2003 May 19 03.30	3 114044	min. Earth dist.	2871 Dec 02 00:51 2871 Dec 01 20:53	9° Д 54'23 48.05320 AU
agniumation	2965 May 22 10:09	3° ∏ 47'01 -14°21'1		2872 Feb 21 15:36	8°II55'38
conjunction	2865 May 23 19:08	3° П 47'01 -14 21'1 3° П 47'02 14°21'1			8 ДЗЗЗ8 10°Д11'09
minimum elong max. Earth dist.	2865 May 23 19:19		Č	2872 May 22 21:26	10°Д11'09
	2865 May 24 07:26	3° I 47'42 50.2740		2072 M 20 07 02	100 T2 1100 12010100
morning rise	2865 May 28 11:07	3° Ⅱ 53'19	conjunction	2872 May 30 07:02	10° I I21′09 -13°18′08
retrograde	2865 Sep 03 12:31	5° I 15'40	minimum elong	2872 May 30 07:14	10° I I21′09 13°18′07
opposition	2865 Nov 25 23:37	4° Ⅱ 16'25 -14°52'1		2872 May 30 11:00	10° I 21'22 49.96896 AU
min. Earth dist.	2865 Nov 25 12:42	4° Ⅱ 16'56 48.3242	_	2872 Jun 06 17:37	10° Ⅲ 31'12
direct	2866 Feb 15 08:34	3° Ⅱ 18′07	retrograde	2872 Sep 09 16:56	11° Ⅱ 49'43
evening set	2866 May 19 21:49	4° Ⅱ 36'36	opposition	2872 Dec 02 04:54	10° I 50′20 -13°45′52
			min. Earth dist.	2872 Dec 02 01:11	10° I 50'31 47.99537 AU
conjunction	2866 May 25 00:24	4° Ⅱ 43'30 -14°12'5	6 direct	2873 Feb 21 20:06	9° Ⅱ 51'45
minimum elong	2866 May 25 00:34	4° Ⅱ 43'31 14°12'5	6 evening set	2873 May 23 18:36	11° Ⅱ 06'53
max. Earth dist.	2866 May 25 12:07	4° Ⅱ 44'10 50.2443	2 AU		
morning rise	2866 May 30 03:36	4° Ⅱ 50′27	conjunction	2873 May 31 12:15	11° Ⅱ 17'19 -13°08'11
retrograde	2866 Sep 04 13:10	6° Ⅱ 12'08	minimum elong	2873 May 31 12:26	11° I 17'20 13°08'11
opposition	2866 Nov 27 03:52	5° Ⅱ 12'54 -14°43'2	3 max. Earth dist.	2873 May 31 15:17	11° Ⅱ 17'30 49.91101 AU
min. Earth dist.	2866 Nov 26 18:21	5° Ⅱ 13'20 48.2905	8 AU morning rise	2873 Jun 08 06:56	11° Ⅱ 27'50
direct	2867 Feb 16 16:24	4° Ⅱ 14'34	retrograde	2873 Sep 10 23:07	12° Ⅱ 45'57
evening set	2867 May 20 16:40	5° Ⅱ 32'29	opposition	2873 Dec 03 09:12	11° Ⅱ 46'34 -13°35'25
Z .	,		min. Earth dist.	2873 Dec 03 07:14	11° Ⅱ 46'40 47.93464 AU
conjunction	2867 May 26 05:33	5° П 39'58 -14°04'2		2874 Feb 23 00:24	10° Ⅱ 47'57
minimum elong	2867 May 26 05:45	5° П 39'59 14°04'2		2874 May 24 16:06	12° Ⅱ 02'44
max. Earth dist.	2867 May 26 15:07	5° П 40'30 50.2093	Č	2071 May 21 10:00	12 102 11
morning rise	2867 May 31 19:11	5° I 47'30	conjunction	2874 Jun 01 17:26	12° Ⅱ 13'37 -12°57'59
retrograde	2867 Sep 05 17:23	7° Ⅱ 08'34	minimum elong	2874 Jun 01 17:38	12° Д 13'37' -12' 57'59
opposition	2867 Nov 28 08:06	6° П 09'19 -14°34'2	· ·	2874 Jun 01 17:38 2874 Jun 01 20:09	12° I 13'46 49.85031 AU
min. Earth dist.		6°П09'44 48.2517		2874 Jun 09 19:44	12° II 24'34 49.83031 AU
	2867 Nov 27 23:16	5° Π 10'57	Č		
direct	2868 Feb 17 22:18		retrograde	2874 Sep 12 05:55	13° I I42'18
evening set	2868 May 20 11:52	6° Ⅱ 28'19	opposition	2874 Dec 04 13:19	12° I I42'56 -13°24'44
	20/03/	(OTT 2 (10.1 10.5 510.	min. Earth dist.	2874 Dec 04 11:20	12° I 43'01 47.87095 AU
conjunction	2868 May 26 10:39	6° Ⅲ 36'21 -13°55'3		2875 Feb 24 02:23	11° Ⅲ 44′18
minimum elong	2868 May 26 10:50	6°Щ36'22 13°55'3	0	2875 May 25 13:49	12° Ⅱ 58'46
max. Earth dist.	2868 May 26 18:57	6°Щ36'49 50.1693			_
morning rise	2868 Jun 01 10:13	6° Ⅱ 44'27	conjunction	2875 Jun 02 22:36	13° Ⅱ 10′05 -12°47′33
retrograde	2868 Sep 06 00:04	8° Ⅱ 04'57	minimum elong	2875 Jun 02 22:47	13° Ⅱ 10′05 12°47′34
opposition	2868 Nov 28 12:25	7° I 05'40 -14°25'0	8 max. Earth dist.	2875 Jun 02 23:16	13° Ⅱ 10'07 49.78647 AU
min. Earth dist.	2868 Nov 28 05:50	7° Ⅱ 05'58 48.2079	9 AU morning rise	2875 Jun 11 08:34	13° Ⅱ 21'27
direct	2869 Feb 18 02:32	6° Ⅱ 07'15	retrograde	2875 Sep 13 12:54	14° Ⅱ 38'51
evening set	2869 May 21 07:52	7° Ⅱ 24'06	opposition	2875 Dec 05 17:37	13° Ⅱ 39'29 -13°13'47
			min. Earth dist.	2875 Dec 05 17:18	13° Ⅱ 39'30 47.80400 AU
conjunction	2869 May 27 15:54	7° Ⅲ 32'39 -13°46'3	2 direct	2876 Feb 25 04:18	12° Ⅱ 40′50
minimum elong	2869 May 27 16:06	7° Ⅲ 32'40 13°46'3	3 evening set		
max. Earth dist.		7 10 10 10 10 10 10 10 10 10 10 10 10 10	5 Evening set	2876 May 25 11:47	13° Ⅲ 55′01
man. Bartii dibt.	2869 May 27 23:27	7° П 33'05 50.1247	•	2876 May 25 11:47	13° Ⅱ 55'01
morning rise	•		•	2876 May 25 11:47 2876 Jun 03 03:59	13° П 55'01 14° П 06'45 -12°36'53
	2869 May 27 23:27	7° I 33'05 50.1247	2 AU	•	
morning rise retrograde	2869 May 27 23:27 2869 Jun 03 00:42	7° П 33'05 50.1247 7° П 41'15	2 AU conjunction minimum elong	2876 Jun 03 03:59	14° П 06'45 -12°36'53
morning rise	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55	7° П 33'05 50.1247 7° П 41'15 9° П 01'13	2 AU conjunction minimum elong 1 max. Earth dist.	2876 Jun 03 03:59 2876 Jun 03 04:11	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU
morning rise retrograde opposition	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01	7°П33'05 50.1247' 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599	conjunction minimum elong max. Earth dist. AU morning rise	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33
morning rise retrograde opposition min. Earth dist. direct	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58	7°II33'05 50.1247' 7°II41'15 9°II01'13 8°II01'54 -14°15'4 8°II02'12 48.1599. 7°II03'26	conjunction minimum elong max. Earth dist. AU morning rise retrograde	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10	14°Π06'45 -12°36'53 14°Π06'46 12°36'53 14°Π06'47 49.71900 AU 14°Π18'33 15°Π35'37
morning rise retrograde opposition min. Earth dist.	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01	7°П33'05 50.1247' 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599	conjunction minimum elong max. Earth dist. AU morning rise	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33
morning rise retrograde opposition min. Earth dist. direct evening set	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04	7°П33'05 50.1247: 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599: 7°П03'26 8°П19'48	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist.	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46	14° Π06'45 -12°36'53 14° Π06'46 12°36'53 14° Π06'47 49.71900 AU 14° Π18'33 15° Π35'37 14° Π36'15 -13°02'37 14° Π36'13 47.73290 AU
morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04	7°П33'05 50.1247. 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599. 7°П03'26 8°П19'48 8°П28'52 -13°37'1	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08	7°П33'05 50.1247. 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599. 7°П03'26 8°П19'48 8°П28'52 -13°37'1 8°П28'52 13°37'1	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46	14° Π06'45 -12°36'53 14° Π06'46 12°36'53 14° Π06'47 49.71900 AU 14° Π18'33 15° Π35'37 14° Π36'15 -13°02'37 14° Π36'13 47.73290 AU
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08 2870 May 29 02:24	7°П33'05 50.1247'. 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599. 7°П03'26 8°П19'48 8°П28'52 -13°37'1 8°П28'52 13°37'1 8°П29'10 50.0760.	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08 2870 May 29 02:24 2870 Jun 04 14:45	7°П33'05 50.1247'. 7°П41'15 9°П01'13 8°П01'54 -14°15'4 8°П02'12 48.1599. 7°П03'26 8°П19'48 8°П28'52 -13°37'1 8°П28'52 13°37'1 8°П29'10 50.0760'.	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30 15°П03'38 -12°26'00
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08 2870 May 29 02:24 2870 Jun 04 14:45 2870 Sep 08 10:24	7° II 33'05 50.1247'. 7° II 41'15 9° II 01'13 8° II 01'54 -14°15'4 8° II 02'12 48.1599. 7° II 03'26 8° II 19'48 8° II 28'52 -13°37'1 8° II 28'52 13°37'1 8° II 29'10 50.0760'. 8° II 37'58 9° II 57'24	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction minimum elong	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18 2877 Jun 04 09:29 2877 Jun 04 09:40	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30 15°П03'38 -12°26'00 15°П03'39 12°26'00
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08 2870 Jun 04 14:45 2870 Sep 08 10:24 2870 Nov 30 20:39	7° II 33'05 50.1247' 7° II 41'15 9° II 01'13 8° II 01'54 -14°15'4 8° II 02'12 48.1599. 7° II 03'26 8° II 19'48 8° II 28'52 -13°37'1 8° II 28'52 13°37'1 8° II 29'10 50.0760.8° II 37'58 9° II 57'24 8° II 58'04 -14°05'5	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction minimum elong max. Earth dist.	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18 2877 Jun 04 09:29 2877 Jun 04 09:40 2877 Jun 04 07:51	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30 15°П03'38 -12°26'00 15°П03'39 12°26'00 15°П03'33 49.64712 AU
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 29 02:24 2870 Jun 04 14:45 2870 Sep 08 10:24 2870 Nov 30 20:39 2870 Nov 30 15:47	7°II 33'05 50.1247' 7°II 41'15 9°II 01'13 8°II 01'54 -14°15'4 8°II 02'12 48.1599. 7°II 03'26 8°II 19'48 8°II 28'52 -13°37'1 8°II 28'52 13°37'1 8°II 29'10 50.0760.8°II 37'58 9°II 57'24 8°II 58'04 -14°05'5 8°II 58'18 48.1082.	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction minimum elong max. Earth dist. AU conjunction minimum elong max. Earth dist. AU morning rise	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18 2877 Jun 04 09:29 2877 Jun 04 09:40 2877 Jun 04 07:51 2877 Jun 13 09:51	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30 15°П03'38 -12°26'00 15°П03'39 12°26'00 15°П03'33 49.64712 AU 15°П15'51
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08 2870 May 29 02:24 2870 Jun 04 14:45 2870 Sep 08 10:24 2870 Nov 30 20:39 2870 Nov 30 15:47 2871 Feb 20 08:53	7° II 33'05 50.1247' 7° II 41'15 9° II 01'13 8° II 01'54 -14° 15'4 8° II 02'12 48.1599. 7° II 03'26 8° II 19'48 8° II 28'52 -13° 37'1 8° II 29'10 50.0760: 8° II 37'58 9° II 57'24 8° II 58'04 -14° 05'5 8° II 58'18 48.1082. 7° II 59'33	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction minimum elong max. Earth dist. AU conjunction minimum elong max. Earth dist. AU direct evening set	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18 2877 Jun 04 09:29 2877 Jun 04 09:40 2877 Jun 04 07:51 2877 Jun 13 09:51 2877 Sep 14 19:30	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30 15°П03'38 -12°26'00 15°П03'39 12°26'00 15°П03'33 49.64712 AU 15°П15'51 16°П32'36
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 29 02:24 2870 Jun 04 14:45 2870 Sep 08 10:24 2870 Nov 30 20:39 2870 Nov 30 15:47	7°II 33'05 50.1247' 7°II 41'15 9°II 01'13 8°II 01'54 -14°15'4 8°II 02'12 48.1599. 7°II 03'26 8°II 19'48 8°II 28'52 -13°37'1 8°II 28'52 13°37'1 8°II 29'10 50.0760.8°II 37'58 9°II 57'24 8°II 58'04 -14°05'5 8°II 58'18 48.1082.	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction minimum elong max. Earth dist. AU conjunction minimum elong max. Earth dist. AU conjunction minimum elong max. Earth dist. AU opposition	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18 2877 Jun 04 09:29 2877 Jun 04 09:40 2877 Jun 04 07:51 2877 Jun 13 09:51 2877 Sep 14 19:30 2877 Dec 07 02:10	14° II 06'45 -12°36'53 14° II 06'46 12°36'53 14° II 06'47 49.71900 AU 14° II 18'33 15° II 35'37 14° II 36'15 -13°02'37 14° II 36'13 47.73290 AU 13° II 37'36 14° II 51'30 15° II 03'38 -12°26'00 15° II 03'33 49.64712 AU 15° II 15'51 16° II 32'36 15° II 33'15 -12°51'13
morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2869 May 27 23:27 2869 Jun 03 00:42 2869 Sep 07 04:55 2869 Nov 29 16:24 2869 Nov 29 10:01 2870 Feb 19 05:58 2870 May 22 04:04 2870 May 28 20:57 2870 May 28 21:08 2870 May 29 02:24 2870 Jun 04 14:45 2870 Sep 08 10:24 2870 Nov 30 20:39 2870 Nov 30 15:47 2871 Feb 20 08:53	7° II 33'05 50.1247' 7° II 41'15 9° II 01'13 8° II 01'54 -14° 15'4 8° II 02'12 48.1599. 7° II 03'26 8° II 19'48 8° II 28'52 -13° 37'1 8° II 29'10 50.0760: 8° II 37'58 9° II 57'24 8° II 58'04 -14° 05'5 8° II 58'18 48.1082. 7° II 59'33	conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition min. Earth dist. direct evening set AU conjunction minimum elong max. Earth dist. AU conjunction minimum elong max. Earth dist. AU solution minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2876 Jun 03 03:59 2876 Jun 03 04:11 2876 Jun 03 04:28 2876 Jun 11 21:14 2876 Sep 13 15:10 2876 Dec 05 21:56 2876 Dec 05 22:46 2877 Feb 25 11:07 2877 May 26 10:18 2877 Jun 04 09:29 2877 Jun 04 09:40 2877 Jun 04 07:51 2877 Jun 13 09:51 2877 Sep 14 19:30	14°П06'45 -12°36'53 14°П06'46 12°36'53 14°П06'47 49.71900 AU 14°П18'33 15°П35'37 14°П36'15 -13°02'37 14°П36'13 47.73290 AU 13°П37'36 14°П51'30 15°П03'38 -12°26'00 15°П03'39 12°26'00 15°П03'33 49.64712 AU 15°П15'51 16°П32'36

evening set	2878 May 27 08:56	15° Ⅱ 48'12	opposition	2884 Dec 13 09:47	22° Ⅱ 15'12 -11°25'09
e venning see	2070 May 27 00.30	13 110 12	min. Earth dist.	2884 Dec 13 19:38	22° I 14'44 46.99268 AU
conjunction	2878 Jun 05 15:05	16° 耳 00'44 -12°14'54	direct	2885 Mar 05 00:58	21° I I15'55
minimum elong	2878 Jun 05 15:18	16° 耳 00'45 12°14'54	evening set	2885 Jun 01 04:54	22° I I27'55
max. Earth dist.	2878 Jun 05 11:57	16° 耳 00'33 49.57007 AU	_		
morning rise	2878 Jun 14 22:27	16° Ⅱ 13'21	conjunction	2885 Jun 12 06:48	22° Ⅱ 43'02 -10°51'04
retrograde	2878 Sep 16 02:50	17° Ⅲ 29'48	minimum elong	2885 Jun 12 07:00	22° I I43'03 10°51'03
opposition	2878 Dec 08 06:44	16° Ⅲ 30′25 -12°39′37	max. Earth dist.	2885 Jun 11 18:30	22° Ⅱ 42'20 48.90170 AU
min. Earth dist.	2878 Dec 08 10:46	16° Ⅲ 30'14 47.57596 AU	morning rise	2885 Jun 23 10:13	22° Ⅱ 58'14
direct	2879 Feb 27 21:08	15° Ⅲ 31'41	retrograde	2885 Sep 22 19:29	24° Ⅱ 12'47
evening set	2879 May 28 07:43	16° Ⅱ 45′03	opposition	2885 Dec 14 14:26	23° Ⅱ 12'59 -11°11'53
			min. Earth dist.	2885 Dec 15 01:50	23° Ⅱ 12'26 46.88352 AU
conjunction	2879 Jun 06 20:36	16° Ⅱ 57'59 -12°03'35	direct	2886 Mar 06 02:12	22° Ⅱ 13'37
minimum elong	2879 Jun 06 20:47	16° Ⅲ 57'59 12°03'35	evening set	2886 Jun 02 05:01	23° Ⅲ 25′27
max. Earth dist.	2879 Jun 06 16:28	16° 耳 57'45 49.48779 AU			
morning rise	2879 Jun 16 10:36	17° Ⅱ 10′59	conjunction	2886 Jun 13 12:47	23° Ⅱ 40'55 -10°38'08
retrograde	2879 Sep 17 09:08	18° Ⅲ 27′08	minimum elong	2886 Jun 13 12:59	23° Ⅱ 40'55 10°38'09
opposition	2879 Dec 09 11:11	17° Ⅲ 27'43 -12°27'47	max. Earth dist.	2886 Jun 13 00:30	23° 耳 40'13 48.79255 AU
min. Earth dist.	2879 Dec 09 15:36	17° Ⅲ 27'31 47.48949 AU	morning rise	2886 Jun 24 21:48	23° Ⅱ 56′27
direct	2880 Feb 29 00:08	16° Ⅱ 28'55	retrograde	2886 Sep 23 23:23	25° Ⅱ 10'48
evening set	2880 May 28 06:51	17° Ⅱ 42'01	opposition	2886 Dec 15 19:14	24° Ⅱ 10'57 -10°58'21
			min. Earth dist.	2886 Dec 16 07:19	24° Ⅱ 10′22 46.77135 AU
conjunction	2880 Jun 07 02:12	17° I 55'19 -11°52'04	direct	2887 Mar 07 08:29	23° Ⅱ 11'30
minimum elong	2880 Jun 07 02:24	17° I 55′20 11°52′05	evening set	2887 Jun 03 05:21	24° Ⅱ 23'12
max. Earth dist.	2880 Jun 06 19:39	17° I 54'57 49.40026 AU			
morning rise	2880 Jun 16 22:56	18° Ⅱ 08'43	conjunction	2887 Jun 14 18:35	24° Ⅱ 39'00 -10°24'58
retrograde	2880 Sep 17 15:57	19° Ⅱ 24'33	minimum elong	2887 Jun 14 18:47	24° Ⅱ 39'01 10°24'57
opposition	2880 Dec 09 15:39	18° Ⅲ 25′05 -12°15′44	max. Earth dist.	2887 Jun 14 04:41	24° Ⅱ 38'12 48.68041 AU
min. Earth dist.	2880 Dec 09 22:03	18° Ⅱ 24'47 47.39809 AU	C	2887 Jun 26 09:17	24° I I54'53
direct	2881 Mar 01 03:05	17° Ⅱ 26'12	retrograde	2887 Sep 25 03:21	26° Ⅱ 09'03
evening set	2881 May 29 06:06	18° Ⅲ 39′03	opposition	2887 Dec 17 00:04	25° I 09'09 -10°44'34
			min. Earth dist.	2887 Dec 17 12:48	25° I 08'32 46.65601 AU
conjunction	2881 Jun 08 07:59	18° Ⅲ 52'44 -11°40'20	direct	2888 Mar 07 14:53	24° Ⅱ 09'38
minimum elong	2881 Jun 08 08:10	18° I 52'45 11°40'20	evening set	2888 Jun 03 06:02	25° Ⅱ 21'13
max. Earth dist.	2881 Jun 08 01:05	18° II 52'21 49.30798 AU	max. Earth dist.	2888 Jun 14 09:40	25° I 36′28 48.56459 AU
morning rise	2881 Jun 18 11:02	19° I 106'30		2000 1 15 00 40	050H25101 10011122
retrograde	2881 Sep 18 18:15	20° I I22'03	conjunction	2888 Jun 15 00:48	25°II37'21 -10°11'33
opposition	2881 Dec 10 20:09	19° I 22'31 -12°03'28	minimum elong	2888 Jun 15 00:59	25° I 37'21 10°11'33
min. Earth dist.	2881 Dec 11 03:41	19° II 22'09 47.30209 AU	U	2888 Jun 26 21:00	25° Ⅱ 53'34
direct	2882 Mar 02 10:10	18° Ⅱ 23'32 19° Ⅱ 36'10	retrograde	2888 Sep 25 09:11 2888 Dec 17 04:58	27° 耳 07'36 26° 耳 07'38 -10°30'32
evening set	2882 May 30 05:33	19 Д30 10	opposition min. Earth dist.		
agniumation	2882 Jun 09 13:32	19° Ⅱ 50'12 -11°28'22	direct	2888 Dec 17 19:51 2889 Mar 08 20:39	26°耳06'55 46.53670 AU 25°耳08'02
conjunction minimum elong	2882 Jun 09 13:44	19° Д 50'12 -11 28'22 19° Д 50'13 11°28'23	evening set	2889 Jun 04 07:05	26° I 19'30
max. Earth dist.	2882 Jun 09 04:45	19° Д 49'42 49.21150 AU	•	2889 Juli 04 07.03	20 11930
morning rise	2882 Jun 19 22:53	20° I I04'19	conjunction	2889 Jun 16 07:13	26°II35'58 -9°57'54
retrograde	2882 Sep 19 22:27	21° I I19'36	minimum elong	2889 Jun 16 07:25	26° I 35'59 9°57'54
opposition	2882 Dec 12 00:36	20° I I20'00 -11°50'56	max. Earth dist.	2889 Jun 15 15:11	26°II35'03 48.44458 AU
min. Earth dist.	2882 Dec 12 08:40	20° I 19'37 47.20226 AU		2889 Jun 28 08:39	26°II52'32
direct	2883 Mar 03 15:35	19° Ⅱ 20′55	retrograde	2889 Sep 26 16:28	28° Ⅱ 06′25
evening set	2883 May 31 05:04	20° Ⅲ 33'19	opposition	2889 Dec 18 09:56	27° I 106'24 -10°16'15
**************************************			min. Earth dist.	2889 Dec 19 01:10	27° П 05'40 46.41276 AU
conjunction	2883 Jun 10 19:14	20° Ⅱ 47'43 -11°16'11	direct	2890 Mar 10 00:34	26° Ⅱ 06'42
minimum elong	2883 Jun 10 19:25	20° Ⅱ 47'44 11°16'10	evening set	2890 Jun 05 08:20	27° Ⅱ 18′05
max. Earth dist.	2883 Jun 10 09:24	20° Ⅱ 47′09 49.11131 AU	-		
morning rise	2883 Jun 21 10:45	21° II 02'12	conjunction	2890 Jun 17 13:33	27° ∏ 34'53 -9°44'02
retrograde	2883 Sep 21 03:33	22° Ⅱ 17'14	minimum elong	2890 Jun 17 13:43	27° I 34'53 9°44'02
opposition	2883 Dec 13 05:13	21° Ⅲ 17'33 -11°38'11	max. Earth dist.	2890 Jun 16 19:00	27° 耳 33'48 48.31952 AU
min. Earth dist.	2883 Dec 13 15:05	21° I 17'05 47.09900 AU	morning rise	2890 Jun 29 20:20	27° Ⅲ 51'46
direct	2884 Mar 03 21:41	20° Ⅱ 18′22	retrograde	2890 Sep 28 00:47	29° Ⅲ 05'31
evening set	2884 May 31 04:49	21° Ⅲ 30′34	opposition	2890 Dec 19 15:09	28° Ⅲ 05'25 -10°01'45
			min. Earth dist.	2890 Dec 20 08:32	28° Ⅱ 04'35 46.28370 AU
conjunction	2884 Jun 11 01:00	21° II 45'19 -11°03'45	direct	2891 Mar 11 03:49	27° Ⅱ 05'37
minimum elong	2884 Jun 11 01:11	21° II 45'19 11°03'45	evening set	2891 Jun 06 09:44	28° Ⅱ 16'55
max. Earth dist.	2884 Jun 10 14:47	21° Ⅱ 44'44 49.00803 AU			
morning rise	2884 Jun 21 22:25	22° 川 00′10	conjunction	2891 Jun 18 20:12	28° Ⅲ 34′02 -9°29′56
retrograde	2884 Sep 21 10:54	23° Ⅱ 14′56	minimum elong	2891 Jun 18 20:23	28°II34'02 9°29'56

2897 Jul 08 04:56

morning rise

4°952'35

Section Sect	conjunction	2904 Jul 02 19:38	11° © 48'44 -6°04'25	avaning sat	2911 Jun 25 21:26	19° \$ 00'43
Section Content	3			evening set		
Mathematical 1906 13 0.01 1923 192	C			max. Earm dist.	2911 Jul 09 15.38	19 32 0 32 44.81209 AU
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minimum elong 2906 Jul 20 12.26 14*25873 5*2902 max. Earth dist. 2913 Jul 11 09.28 29*05.04 44:0493 AU morning frise 2906 Jul 20 13.26 14*25873 5*3435 minimum elong 2913 Jul 13 07.15 21*253873 3*1651 20 20 20 20 20 20 20 2						
morning rise	·		13° © 56'36 -5°29'01	evening set	2913 Jun 27 13:31	21°©15'14
Periodical 15 12 15 15 15 15 15 15	· ·	2906 Jul 05 12:55	13° © 56'37 5°29'02	max. Earth dist.	2913 Jul 11 09:28	21°535'40 44.40493 AU
Opposition 1907 Jan 05 15.38 1452794 43.7003 AU morning rise 2913 Jul 13 07.15 2152831 31651 min. Earth dist. 2907 Jan 07 02.25 1452795 43.7003 AU morning rise 2913 Jul 13 07.15 215285 225901624 41.0003 AU morning rise 2914 Jul 14 22.56 22591128 31544 22.0007 AU max. Earth dist. 2907 Jul 05 05.40 14528839 45.59704 AU min. Earth dist. 2914 Jun 14 12 22.56 22591128 31544 3104 31	morning rise	2906 Jul 20 13:26	14° © 18'13			
Mine Barth dist	-	2906 Oct 15 21:21	15° © 31'43	conjunction	2913 Jul 13 07:10	21° © 38'31 -3°16'52
Greet 1907 Mar 28 04.12 13°5271" retrogrande 2914 Jun 12 22.56 22°6213'2 3°15'44 runa 2907 Jun 21 18:53 14°25'83'9 45.59704 JU min. Earth dist. 2914 Jun 40°455 22°6213'2 3°15'44 runa 2907 Jun 21 18:53 15°2501'04 5°10'57 runa 2914 Jun 40°455 22°621'32 3°15'44 runa 2907 Jun 20°17	opposition	2907 Jan 05 15:38	14° 5 29'38 -5°34'35		2913 Jul 13 07:15	21°538'31 3°16'51
Post	min. Earth dist.	2907 Jan 07 02:25	14° © 27'54 43.70034 AU	morning rise	2913 Jul 29 01:17	22° © 01'52
Max. Earth dist. 2907 Jul 0.5 05:40 14°85889 45.59704 AU min. Earth dist. 2914 Jun 14 16.48 22°811'20 42.30276 AU conjunction 2907 Jul 0.6 21:31 15°801'04 5°10'57 evening set 2914 Jun 22.072 22°82'376 21°800'40 22°81'370 22°	direct	2907 Mar 28 04:12	13° © 27'17	retrograde	2913 Oct 23 17:29	23° © 16'44
conjunction 2907 Jul 06 21:31 15°©0104 - 5°1057 direct 2914 Jun 28 22:07 22°923373 21°907 Jul 06 21:38 15°©0105 5°1056 amx. Earth dist. 2914 Jul 12 18:23 22°924410 41.9587 AU morning rise 2907 Jul 22 01:18 15°©0105 5°1056 max. Earth dist. 2914 Jul 14 17:35 22°94410 41.9587 AU opposition 2908 Jan 08 10:39 15°©3328 43.50780 AU morning rise 2914 Jul 14 17:35 22°94700 22°5555 min Earth dist 2908 Jan 08 10:39 15°©3228 43.50780 AU morning rise 2914 Jul 14 17:39 22°924708 22°5555 min Earth dist 2908 Jan 08 10:39 15°©3228 43.50780 AU morning rise 2914 Jul 30 13:30 23°©1042 25°C555 evening set 2908 Jul 20 00:5 15°©4553 opposition 2915 Jul 10 10:3 23°©2226 22°54415 max. Earth dist 2908 Jul 07 06:43 16°©30556 48°236 max. Earth dist 2915 Jul 10 07:0 23°©3521 23°©3521 23°©3521 23°©3522 22°6445 29°°10 Jul 10 07:0 23°©3522 22°6445	evening set	2907 Jun 21 18:53	14° © 39'17	opposition	2914 Jan 12 22:56	22°513'28 -3°15'44
Conjunction 2907 Jul 06 21:31 15°\$0104 -5°1057 evening set 2914 Jul 28 22:07 22°\$23'36 22°\$24'10 41,958'7 AD max. Earth dist. 2914 Jul 12 18:32 22°\$24'10 41,958'7 AD max. Earth dist. 2914 Jul 12 18:32 22°\$24'10 41,958'7 AD max. Earth dist. 2914 Jul 14 17:35 22°\$24'10 42,958'7 AD 22°\$65'5 2909 Jul 2098 Jul 22 492 15°\$32'16 -5'15'37 minimum elong 2914 Jul 14 17:35 22°\$24'70 22°\$65'5 2909 Jul 2098 Jul 22 492 15°\$32'18 43,578'0 AU morning rise 2914 Jul 14 17:35 22°\$24'70 22°\$65'5	max. Earth dist.	2907 Jul 05 05:40	14°958'39 45.59704 AU	min. Earth dist.	2914 Jan 14 16:48	22°511'20 42.30276 AU
Minimum elong 2907 Jul 06 21:38 15°\$20105 5°1056 max. Earth dist. 2914 Jul 12 18:32 22°\$44'10 44.19587 AU morning rise 2907 Jul 22 01:18 15°\$2256 5°1007 17 06:55 6°1056 6°236'32 5°236'32 5°26'35 5°20 5°20 5°20 5°234'16 5°15'37 minimum elong 2914 Jul 14 17:35 22°\$47'08 2°56'55 5°20 20°20				direct	2914 Apr 04 09:55	21°509'40
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direct 2917 Apr 07 11:56 24°37'51 conjunction 2910 Jul 10 01:11 18°317'04 -4°15'06 evening set 2917 Jul 02 03:00 25°352'56 minimum elong 2910 Jul 10 01:17 18°317'04 4°15'07 max. Earth dist. 2917 Jul 15 22:47 26°313'47 43.54273 AU morning rise 2910 Jul 25 12:54 18°339'41 retrograde 2910 Oct 20 08:11 19°353'48 conjunction 2917 Jul 18 03:00 26°317'06 -1°55'33 opposition 2911 Jan 09 21:53 18°351'00 -4°16'58 minimum elong 2917 Jul 18 03:03 26°317'06 1°55'33 min. Earth dist. 2911 Jan 11 12:40 18°349'02 42.91624 AU morning rise 2917 Aug 03 03:26 26°341'19	•					
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opposition 2911 Jan 09 21:53 18°S51'00 -4°16'58 minimum elong 2917 Jul 18 03:03 26°S17'06 1°55'33 min. Earth dist. 2911 Jan 11 12:40 18°S49'02 42.91624 AU morning rise 2917 Aug 03 03:26 26°S41'19	-				2017 1 10 00 00	0.00017000 105500
min. Earth dist. 2911 Jan 11 12:40 18°549'02 42.91624 AU morning rise 2917 Aug 03 03:26 26°541'19	-					
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direct 2911 Apr 01 10:52 17°947'48 retrograde 2917 Oct 28 14:03 27°957'29				-	•	
	direct	2911 Apr 01 10:52	1 / ٩٤/ 48 عند 1 / 48	retrograde	2917 Oct 28 14:03	2/205729

opposition	2918 Jan 17 11:58	26° © 53'22	-1°50'10	behind sun end	2923 Jul 26 08:03	3° Ω 35'10	
min. Earth dist.	2918 Jan 19 10:43		41.43006 AU	morning rise	2923 Aug 11 08:32	4°Ω00'16	
direct	2918 Apr 08 19:46	25° © 48'31	41.43000710	retrograde	2923 Nov 05 15:27	5°Ω19'02	
evening set	2918 Jul 03 13:24	27° © 04'01		opposition	2924 Jan 25 03:41	4°Ω13'21	0°26'36
max. Earth dist.	2918 Jul 17 09:57		43.31723 AU	min. Earth dist.	2924 Jan 27 07:11		40.03654 AU
mar. Barur disc.	2)10 041 1, 0).5,	2, 02001	13.31723110	direct	2924 Apr 15 10:26	3° Ω 06'39	10.03001110
conjunction	2918 Jul 19 14:42	27° © 28'23	-1°34'35	evening set	2924 Jul 10 15:03	4°Ω25'19	
minimum elong	2918 Jul 19 14:44	27° © 28'23		max. Earth dist.	2924 Jul 24 07:57		41.91923 AU
morning rise	2918 Aug 04 16:01	27° © 52'48					
retrograde	2918 Oct 30 01:27	29° © 09'19		conjunction	2924 Jul 26 18:39	4° Ω 50'45	0°36'39
opposition	2919 Jan 18 21:53	28° © 04'56	-1°28'04	minimum elong	2924 Jul 26 18:38	4°Ω50'45	
min. Earth dist.	2919 Jan 20 21:42	28° © 02'26	41.20264 AU	morning rise	2924 Aug 11 21:59	5° Ω 16'11	
direct	2919 Apr 10 07:28	26° © 59'48		retrograde	2924 Nov 06 06:55	6° Ω 35'30	
evening set	2919 Jul 05 00:15	28° © 15'44		opposition	2925 Jan 25 15:25	5° Ω 29'34	0°50'22
max. Earth dist.	2919 Jul 18 20:23		43.08889 AU	min. Earth dist.	2925 Jan 27 19:38		39.79892 AU
				direct	2925 Apr 16 22:22	4° Ω 22'34	
conjunction	2919 Jul 21 02:25	28° © 40'18	-1°13'21	evening set	2925 Jul 12 05:28	5° Ω 41'54	
minimum elong	2919 Jul 21 02:27	28° © 40'18	1°13'21	max. Earth dist.	2925 Jul 25 20:47		41.68018 AU
morning rise	2919 Aug 06 04:46	29° © 04'55					
<i>3 3 3 3 3 3 3 3 3 3</i>	2919 Sep 18 05:25	$0^{\circ}\Omega$		conjunction	2925 Jul 28 08:40	6°Ω07'29	0°59'23
retrograde	2919 Oct 31 13:48	0° Ω 21'48		minimum elong	2925 Jul 28 08:39	6°Ω07'29	0°59'23
	2919 Dec 14 04:35	30° ₹ 5		morning rise	2925 Aug 13 11:21	6° Ω 33'04	
opposition	2920 Jan 20 07:59	29° © 17'10	-1°05'41	retrograde	2925 Nov 07 20:12	7° Ω 52'59	
min. Earth dist.	2920 Jan 22 08:07		40.97272 AU	opposition	2926 Jan 27 03:39	6° Ω 46'47	1°14'23
direct	2920 Apr 10 18:50	28° © 11'42		min. Earth dist.	2926 Jan 29 09:38		39.55887 AU
evening set	2920 Jul 05 11:46	29° © 28'06		direct	2926 Apr 18 11:41	5° Ω 39'29	
max. Earth dist.	2920 Jul 19 07:15		42.85802 AU	evening set	2926 Jul 13 20:35	6°Ω59'31	
				max. Earth dist.	2926 Jul 27 10:35		41.43855 AU
conjunction	2920 Jul 21 14:41	29° © 52'52	-0°51'52				
minimum elong	2920 Jul 21 14:43	29° © 52'52	0°51'52	conjunction	2926 Jul 29 23:06	7° Ω 25'14	1°22'22
	2920 Jul 26 05:06	$0^{\circ}\Omega$		minimum elong	2926 Jul 29 23:04	7° Ω 25'13	1°22'22
morning rise	2920 Aug 06 17:37	0° Ω 17'40		morning rise	2926 Aug 15 01:01	7° Ω 50'56	
retrograde	2920 Oct 31 23:27	1° Ω 34'58		retrograde	2926 Nov 09 09:51	9°Ω11'29	
opposition	2921 Jan 20 18:25	0° Ω 30'03	-0°43'02	opposition	2927 Jan 28 16:09	8° Ω 05'01	1°38'40
min. Earth dist.	2921 Jan 22 20:20		40.74073 AU	min. Earth dist.	2927 Jan 30 22:15		39.31603 AU
	2921 Feb 14 07:45	30°Rூ		direct	2927 Apr 20 00:31	6° Ω 57'23	
direct	2921 Apr 12 05:46	29° © 24'17		evening set	2927 Jul 15 12:22	8° Ω 18′09	
	2921 Jun 07 01:52	0°N		max. Earth dist.	2927 Jul 28 23:04		41.19374 AU
evening set	2921 Jul 06 23:44	0° Ω 41'11				0 000	
max. Earth dist.	2921 Jul 20 19:48		42.62541 AU	conjunction	2927 Jul 31 13:53	8° Ω 43'58	1°45'34
				minimum elong	2927 Jul 31 13:50	8° Ω 43'58	1°45'34
conjunction	2921 Jul 23 03:14	1° Ω 06′08	-0°30'07	morning rise	2927 Aug 16 14:50	9° Ω 09'48	
minimum elong	2921 Jul 23 03:15	1° Ω 06'08		retrograde	2927 Nov 11 01:04	10° Ω 31'01	
morning rise	2921 Aug 08 06:32	1° Ω 31′06		opposition	2928 Jan 30 05:14	9° Ω 24'15	2°03'13
retrograde	2921 Nov 02 10:39	2° Ω 48′50		min. Earth dist.	2928 Feb 01 13:25		39.07007 AU
opposition	2922 Jan 22 05:10	1° Ω 43'40	-0°20'06	direct	2928 Apr 20 11:18	8° Ω 16'16	
min. Earth dist.	2922 Jan 24 06:50		40.50723 AU	evening set	2928 Jul 16 04:52	9° Ω 37'47	
direct	2922 Apr 13 16:26	0° Ω 37'35		max. Earth dist.	2928 Jul 29 14:14		40.94573 AU
evening set	2922 Jul 08 12:12	1° Ω 55'01					
max. Earth dist.	2922 Jul 22 06:28		42.39135 AU	conjunction	2928 Aug 01 05:19	10° Ω 03'43	2°09'00
		55-0 - 5		minimum elong	2928 Aug 01 05:15	10° Ω 03'43	2°09'01
conjunction	2922 Jul 24 15:50	2° Ω 20'08	-0°08'10	morning rise	2928 Aug 17 04:48	10° Ω 29'38	
minimum elong	2922 Jul 24 15:50	2°Ω20'08	0°08'10	retrograde	2928 Nov 11 16:48	11° Ω 51'32	
behind sun begin	2922 Jul 24 10:05	2° Ω 19'47		opposition	2929 Jan 30 18:32	10° Ω 44'29	2°28'00
behind sun end	2922 Jul 24 21:36	2°Ω20'29		min. Earth dist.	2929 Feb 02 03:16		38.82103 AU
morning rise	2922 Aug 09 19:27	2° Ω 45'16		direct	2929 Apr 21 23:55	9° Ω 36'08	
retrograde	2922 Nov 04 02:08	4°Ω03'31		evening set	2929 Jul 17 22:12	10° Ω 58'27	
asc. node	2922 Dec 05 17:28	3° Ω 51'32		max. Earth dist.	2929 Jul 31 03:43		40.69485 AU
opposition	2923 Jan 23 16:19	2° Ω 58'05	0°03'07			552000	
min. Earth dist.	2923 Jan 25 19:19		40.27256 AU	conjunction	2929 Aug 02 20:57	11° Ω 24'28	2°32'40
direct	2923 Apr 14 23:39	1° Ω 51'41		minimum elong	2929 Aug 02 20:53	11° Ω 24'28	
evening set	2923 Apr 14 25:59 2923 Jul 10 01:12	3° Ω 09'42		morning rise	2929 Aug 18 19:00	11°Ω50'28	_ 5_5/
max. Earth dist.	2923 Jul 10 01:12 2923 Jul 23 19:54		42.15601 AU	retrograde	2929 Aug 18 19:00 2929 Nov 13 11:11	13°Ω13'05	
max. Darm dist.	2723 Jul 23 17.34	J 06J11J	12.13001 AU	opposition	2930 Feb 01 08:19	13 δ (13 03 12° Ω 05'42	2°53'02
conjunction	2923 Jul 26 05:06	3° Ω 34'59	0°14'10	min. Earth dist.	2930 Feb 01 08:19 2930 Feb 03 18:07		38.56954 AU
minimum elong	2923 Jul 26 05:05	3° Ω 34'59	0°14'10 0°14'09	direct	2930 Apr 23 11:58	12 δ 02 30	30.30737 AU
behind sun begin	2923 Jul 26 03:03 2923 Jul 26 02:08	3° Ω 34'48	0 1702	evening set	2930 Apr 23 11.38 2930 Jul 19 15:52	10 δ <i>t</i> 36 38 12° Ω 20'08	
ooming sun begill	2723 Jul 20 02.00	2 0 627 70		J. Jimig Sot	2750 Jul 17 15.52	12 062000	

max. Earth dist.	2930 Aug 01 19:09	12° Ω 41'41	40.44148 AU	morning rise	2936 Aug 28 00:34	21° Ω 46'25	
				retrograde	2936 Nov 23 16:36	23° Ω 15′25	
conjunction	2930 Aug 04 12:57	12° Ω 46′13	2°56'32	opposition	2937 Feb 10 21:02	22° Ω 05'40	5°54'05
minimum elong	2930 Aug 04 12:52	12° Ω 46′13	2°56'32	min. Earth dist.	2937 Feb 13 10:50	22° Ω 02'06	36.78517 AU
morning rise	2930 Aug 20 08:57	13° Ω 12′17		direct	2937 May 02 20:19	20° Ω 54'13	
retrograde	2930 Nov 15 02:39	14° Ω 35'40		evening set	2937 Jul 30 19:20	22° Ω 24'41	
opposition	2931 Feb 02 22:34	13° Ω 27'56	3°18'19	max. Earth dist.	2937 Aug 11 19:35	22° Ω 45'33	38.64801 AU
min. Earth dist.	2931 Feb 05 09:36	13° Ω 24'39	38.31596 AU				
direct	2931 Apr 25 02:54	12° Ω 18′50		conjunction	2937 Aug 14 18:21	22° Ω 50'43	5°48'27
evening set	2931 Jul 21 10:30	13° Ω 42'52		minimum elong	2937 Aug 14 18:11	22° Ω 50'43	5°48'27
max. Earth dist.	2931 Aug 03 10:54	14° Ω 04'22	40.18644 AU	morning rise	2937 Aug 29 15:45	23° Ω 16'41	
				retrograde	2937 Nov 25 11:49	24° Ω 46'49	
conjunction	2931 Aug 06 05:24	14° Ω 09'00	3°20'36	opposition	2938 Feb 12 14:49	23° Ω 36'44	
minimum elong	2931 Aug 06 05:18	14° Ω 09'00	3°20'35	min. Earth dist.	2938 Feb 15 06:03		36.53017 AU
morning rise	2931 Aug 21 23:18	14° Ω 35′07		direct	2938 May 04 14:37	22° Ω 24'54	
	2931 Sep 06 20:28	15° Ω		evening set	2938 Aug 01 20:02	23° Ω 56′38	
retrograde	2931 Nov 16 18:34	15° Ω 59'18		max. Earth dist.	2938 Aug 13 15:29	24° Ω 17'20	38.39107 AU
	2932 Jan 29 00:20	15°R Ω					
opposition	2932 Feb 04 12:58	14° Ω 51'14		conjunction	2938 Aug 16 14:22	24° Ω 22'34	
min. Earth dist.	2932 Feb 07 00:02		38.06114 AU	minimum elong	2938 Aug 16 14:09	24° Ω 22'33	6°13'31
direct	2932 Apr 25 19:02	13° Ω 41'43		morning rise	2938 Aug 31 07:03	24° Ω 48'26	
	2932 Jul 18 03:17	15° Ω		retrograde	2938 Nov 27 08:00	26° Ω 19'44	
evening set	2932 Jul 22 05:54	15° Ω 06'41		opposition	2939 Feb 14 09:01	25° Ω 09'19	
max. Earth dist.	2932 Aug 04 02:17	15° Ω 28'05	39.93015 AU	min. Earth dist.	2939 Feb 17 00:07		36.27437 AU
				direct	2939 May 06 09:37	23° Ω 57'04	
conjunction	2932 Aug 06 22:22	15° Ω 32'52		evening set	2939 Aug 03 21:58	25° Ω 30′07	
minimum elong	2932 Aug 06 22:15	15° Ω 32'51	3°44'52	max. Earth dist.	2939 Aug 15 10:19	25° Ω 50′30	38.13291 AU
morning rise	2932 Aug 22 13:43	15° Ω 59'00					
retrograde	2932 Nov 17 10:39	17° Ω 24'02		conjunction	2939 Aug 18 11:11	25° Ω 55'56	
opposition	2933 Feb 05 04:05	16° Ω 15'37		minimum elong	2939 Aug 18 10:58	25° Ω 55'55	6°38'41
min. Earth dist.	2933 Feb 07 16:46		37.80557 AU	morning rise	2939 Sep 01 22:48	26° Ω 21'38	
direct	2933 Apr 27 08:46	15° Ω 05'42		retrograde	2939 Nov 29 04:51	27° Ω 54'10	
evening set	2933 Jul 24 01:56	16° Ω 31'38		opposition	2940 Feb 16 03:51	26° Ω 43'23	7°13'56
max. Earth dist.	2933 Aug 05 20:02	16° Ω 53'03	39.67339 AU	min. Earth dist.	2940 Feb 18 20:47		36.01746 AU
				direct	2940 May 07 01:34	25° Ω 30'42	
conjunction	2933 Aug 08 15:42	16° Ω 57'50	4°09'17	evening set	2940 Aug 05 00:55	27° Ω 05'09	
minimum elong	2933 Aug 08 15:34	16° Ω 57'50	4°09'17	max. Earth dist.	2940 Aug 16 07:58	27° Ω 25'18	37.87354 AU
morning rise	2933 Aug 24 04:05	17° Ω 23'59					
retrograde	2933 Nov 19 03:08	18° Ω 49'55		conjunction	2940 Aug 19 08:44	27° Ω 30'46	
opposition	2934 Feb 06 19:32	17° Ω 41'10		minimum elong	2940 Aug 19 08:30	27° Ω 30'45	7°03'54
min. Earth dist.	2934 Feb 09 07:43		37.54987 AU	morning rise	2940 Sep 02 14:39	27° Ω 56'19	
direct	2934 Apr 28 23:36	16° Ω 30'52		retrograde	2940 Nov 30 01:13	29° Ω 30'07	
evening set	2934 Jul 25 22:57	17° Ω 57'50		opposition	2941 Feb 16 23:20	28° Ω 18'57	
max. Earth dist.	2934 Aug 07 12:11	18° 37 19'05	39.41670 AU	min. Earth dist.	2941 Feb 19 16:21		35.75942 AU
				direct	2941 May 08 20:53	27° Ω 05'49	
conjunction	2934 Aug 10 09:26	18° Ω 24'01		evening set	2941 Aug 07 04:58	28° Ω 41'41	25 (1215 17)
minimum elong	2934 Aug 10 09:17	18° Ω 24'00	4°33'53	max. Earth dist.	2941 Aug 18 04:04	29° 3′2 01′2′/	37.61315 AU
morning rise	2934 Aug 25 18:45	18° Ω 50'10			2041 4 21 06 27	200 00710	7020110
retrograde	2934 Nov 20 23:07	20° Ω 17'04	5001100	conjunction	2941 Aug 21 06:37	29° Ω 07'06	
opposition	2935 Feb 08 11:33	19° Ω 07'58		minimum elong	2941 Aug 21 06:23	29° Ω 07'05	7°29'10
min. Earth dist.	2935 Feb 11 00:44		37.29466 AU	morning rise	2941 Sep 04 06:39	29° Ω 32'25	
direct	2935 Apr 30 12:26	17° Ω 57'16			2941 Sep 20 06:49	0° Mp	
evening set	2935 Jul 27 20:38	19° Ω 25'20	20 16027 ATT	retrograde	2941 Dec 02 01:20	1° Mp 07'34	
max. Earth dist.	2935 Aug 09 06:58	19-8640-33	39.16037 AU	annagition	2942 Feb 15 23:56	30°RN 29°N55'59	9907126
agniumation	2025 Aug 12 02:50	19° Ω 51'30	1050127	opposition min. Earth dist.	2942 Feb 18 19:24 2942 Feb 21 13:20		35.50076 AU
conjunction	2935 Aug 12 03:50						33.30076 AU
minimum elong morning rise	2935 Aug 12 03:41 2935 Aug 27 09:27	19° Ω 51'29 20° Ω 17'36	7 303/	direct	2942 May 10 14:25 2942 Jul 29 04:27	28° Ω 42'22 0° m	
•	2935 Aug 27 09.27 2935 Nov 22 19:02	20 δ <i>l</i> 1/36 21° Ω 45'32		evening set		0°Mg 19'44	
retrograde opposition	2935 Nov 22 19:02 2936 Feb 10 04:08	21° λ (45'32' 20° Ω 36'06	5°27'42	max. Earth dist.	2942 Aug 09 09:57 2942 Aug 20 02:45		37.35214 AU
min. Earth dist.	2936 Feb 10 04:08 2936 Feb 12 17:42		37.03977 AU	max. Latui Uist.	2742 Aug 20 02.43	U 11739 12	31.33214 AU
direct		20° ∂ (32′34′ 19° Ω 25′01	51.03711 AU	conjunction	2042 Aug 22 05:20	00 mm 1151	7°54'27
evening set	2936 May 01 04:24 2936 Jul 28 19:33	19° λ (25'01 20° Ω 54'15		conjunction minimum elong	2942 Aug 23 05:20 2942 Aug 23 05:04	0° m/44'54 0° m/44'53	7°54'26
•			38 90/3/ 411	•	-		/ 34 20
max. Earth dist.	2936 Aug 10 00:45	21 6(15 18	38.90434 AU	morning rise retrograde	2942 Sep 05 22:42 2942 Dec 04 00:03	1° Mp 09'57 2° Mp 46'30	
conjunction	2036 Aug 12 22:44	21° Ω 20'23	5072170	-		-•	8°34'29
conjunction minimum elong	2936 Aug 12 22:44 2936 Aug 12 22:33	$21^{\circ} \Omega 20'23$ $21^{\circ} \Omega 20'22$		opposition min. Earth dist.	2943 Feb 20 16:06 2943 Feb 23 10:52	1°My34'29	35.24188 AU
mmmum ciong	2730 Aug 12 22.33	21 0620 22	J 4J 49	mm. Bartii dist.	2773 1 CU 23 10.32	1 11y 30 49	33.27100 AU

direct	2943 May 12 10:27	0° Mp 20'24		retrograde	2949 Dec 16 13:28	15° m 05'08	
evening set	2943 Aug 11 16:11	1° m 59'19		opposition	2950 Mar 04 12:14	13° m) 50'16	11°39'39
max. Earth dist.	2943 Aug 22 01:09	2° m) 18'22 37.0	09131 AU	min. Earth dist.	2950 Mar 07 07:56		33.47784 AU
	C	•		direct	2950 May 23 22:59	12° m/32'55	
conjunction	2943 Aug 25 04:29	2° Mp 24'11 8°1	19'42	evening set	2950 Aug 26 22:42	14° m) 25'11	
minimum elong	2943 Aug 25 04:13	2° m/24'10 8°1	19'43	max. Earth dist.	2950 Sep 03 14:12	14° m 40'16	35.31671 AU
morning rise	2943 Sep 07 15:01	2° m/48'57			•	•	
retrograde	2943 Dec 06 01:19	4° m 26'56		conjunction	2950 Sep 06 18:04	14° Mp 46'33	11°12'33
opposition	2944 Feb 22 13:20	3° m 14'30 9°0	01'20	minimum elong	2950 Sep 06 17:42	14° m 46'31	11°12'33
min. Earth dist.	2944 Feb 25 07:57	3° m 10'28 34.9	98357 AU	morning rise	2950 Sep 17 11:43	15° m 07'47	
direct	2944 May 13 08:10	1° m 59'54		retrograde	2950 Dec 18 20:58	16° m 58'19	
evening set	2944 Aug 12 23:31	3° Mp 40'28		opposition	2951 Mar 06 14:36	15° m 43'04	12°05'08
max. Earth dist.	2944 Aug 23 00:18	3° Mp 59'04 36.8	83104 AU	min. Earth dist.	2951 Mar 09 09:53	15° m 38'48	33.23580 AU
				direct	2951 May 26 01:59	14° m 25'16	
conjunction	2944 Aug 26 04:25	4° Mp 05'00 8°4	44'54	evening set	2951 Aug 29 15:41	16° m 19'50	
minimum elong	2944 Aug 26 04:07	4° ዀ 04'59 8°4	44'54	max. Earth dist.	2951 Sep 05 18:52	16° Mp 34'04	35.07257 AU
morning rise	2944 Sep 08 07:22	4° Mp 29′25					
retrograde	2944 Dec 07 01:26	6° Mp 08′55		conjunction	2951 Sep 08 23:11	16° Mp 40'26	11°36'11
opposition	2945 Feb 23 11:21	4° Mp 56′03 9°2	28'08	minimum elong	2951 Sep 08 22:50	16° Mp 40'24	11°36'12
min. Earth dist.	2945 Feb 26 07:08	4° m 51'55 34.7	72640 AU	morning rise	2951 Sep 19 04:53	17° m 00'54	
direct	2945 May 15 06:17	3° ™ 40′59		retrograde	2951 Dec 21 03:50	18° m 53'36	
evening set	2945 Aug 15 08:06	5° m 23′15		opposition	2952 Mar 07 18:07	17° m 37'57	12°30'16
max. Earth dist.	2945 Aug 25 01:28	5° Mp 41'27 36.5	57235 AU	min. Earth dist.	2952 Mar 10 14:33	17° m 33'35	32.99557 AU
				direct	2952 May 27 04:49	16° m 19'42	
conjunction	2945 Aug 28 04:55	5° Mp 47'24 9°1	10'01	evening set	2952 Aug 31 10:32	18° Mp 16'40	
minimum elong	2945 Aug 28 04:37	5° Mp 47'22 9°1	10'01	max. Earth dist.	2952 Sep 07 01:15	18° m 30'00	34.83035 AU
morning rise	2945 Sep 09 23:47	6° Mp 11′25					
retrograde	2945 Dec 09 02:22	7° m 52'31		conjunction	2952 Sep 10 05:05	18° m 36'24	11°59'25
opposition	2946 Feb 25 10:02	6°Mp39'14 9°5	54'50	minimum elong	2952 Sep 10 04:43	18° Mp 36′22	11°59'25
min. Earth dist.	2946 Feb 28 04:52	6° Mp 35'07 34.4	47123 AU	morning rise	2952 Sep 19 21:56	18° m 56'00	
direct	2946 May 17 05:11	5° m 23'40		retrograde	2952 Dec 22 10:16	20° m 50'56	
evening set	2946 Aug 17 17:44	7° ነው 07'44		opposition	2953 Mar 09 22:17	19° m 34'53	12°54'58
max. Earth dist.	2946 Aug 27 01:27	7° m/25'22 36.3	31581 AU	min. Earth dist.	2953 Mar 12 17:47	19° m 30'33	32.75732 AU
				direct	2953 May 29 09:22	18° m) 16'10	
conjunction	2946 Aug 30 05:54	7° m 31'27 9°3	34'58	evening set	2953 Sep 03 06:55	20° m 15'37	
minimum elong	2946 Aug 30 05:35	7° m y 31'25 9°3	34'58	max. Earth dist.	2953 Sep 09 06:56	20° m 27'50	34.59015 AU
morning rise	2946 Sep 11 16:16	7° ₩ 55'02					
retrograde	2946 Dec 11 03:24	9° ™ 37′50		conjunction	2953 Sep 12 11:46	20° m 34'23	12°22'12
opposition	2947 Feb 27 09:29	8° Mg 24'08 10°	°21'23	minimum elong	2953 Sep 12 11:23	20° m 34'21	12°22'13
min. Earth dist.	2947 Mar 02 05:13	8° Mp 19'56 34.2	21867 AU	morning rise	2953 Sep 21 15:02	20° m 53'02	
direct	2947 May 19 01:52	7° Mp 08'06		retrograde	2953 Dec 24 16:59	22° m 50'19	
evening set	2947 Aug 20 04:49	8° m 54'03		opposition	2954 Mar 12 03:26	21° m y 33'51	13°19'11
max. Earth dist.	2947 Aug 29 04:33	9°Mp11'14 36.0	06199 AU	min. Earth dist.	2954 Mar 14 23:52	21° m 29'25	32.52146 AU
				direct	2954 May 31 12:04	20° m 14'39	
conjunction	2947 Sep 01 07:53	9° m 17'17 9°5	59'45	evening set	2954 Sep 06 05:07	22° Mp 16'42	
minimum elong	2947 Sep 01 07:34	9° m 17'15 9°5	59'45	max. Earth dist.	2954 Sep 11 15:39	22° m 27'53	34.35259 AU
morning rise	2947 Sep 13 08:55	9° ™ 40′22					
retrograde	2947 Dec 13 04:34	11° m 24'57		conjunction	2954 Sep 14 19:09	22° m 34'23	12°44'29
opposition	2948 Feb 29 09:32	10° Mp 10'51 10°	°47'43	minimum elong	2954 Sep 14 18:46	22° Mp 34'21	12°44'28
min. Earth dist.	2948 Mar 03 04:43	10° Mp 06'40 33.9	96893 AU	morning rise	2954 Sep 23 07:35	22° m 51'57	
direct	2948 May 20 00:51	8° Mp 54'23		retrograde	2954 Dec 26 23:49	24° m 51'42	
evening set	2948 Aug 21 17:25	10° Mp 42'20		opposition	2955 Mar 14 09:19	23° m 34'47	13°42'50
max. Earth dist.	2948 Aug 30 06:10	10° m 58'49 35.8	81106 AU	min. Earth dist.	2955 Mar 17 04:58	23° Mg 30'23	32.28837 AU
				direct	2955 Jun 02 16:48	22° Mp 15'06	
conjunction	2948 Sep 02 10:30	-1	°24'18	evening set	2955 Sep 09 05:20	24° m 19'52	
minimum elong	2948 Sep 02 10:10	-	°24'17	max. Earth dist.	2955 Sep 13 22:59	24° m 29'42	34.11816 AU
morning rise	2948 Sep 14 01:52	11° m 27'33					
retrograde	2948 Dec 14 09:34	13° M 14'01		conjunction	2955 Sep 17 03:20	24° Mp 36'21	13°06'11
opposition	2949 Mar 02 10:25	11° m 59'32 11°	°13'49	minimum elong	2955 Sep 17 02:58	24° m 36'19	13°06'11
min. Earth dist.	2949 Mar 05 05:44	11° m 55'20 33.7	72217 AU	morning rise	2955 Sep 24 23:59	24° m 52'43	
direct	2949 May 21 22:51	10° m 42'37		retrograde	2955 Dec 29 08:53	26° m 55'03	
evening set	2949 Aug 24 07:11	12° m 32'41		opposition	2956 Mar 15 15:52	25° m 37'41	14°05'52
max. Earth dist.	2949 Sep 01 10:20	12° m/48'33 35.5	56269 AU	min. Earth dist.	2956 Mar 18 11:43	25° m 33'15	32.05892 AU
				direct	2956 Jun 03 20:39	24° m 17'30	
conjunction	2949 Sep 04 13:55	12° m 54'44 10°	°48'35	evening set	2956 Sep 11 07:47	26° m 25'08	
minimum elong	2949 Sep 04 13:34	12° Mp 54'43 10°	°48'36	max. Earth dist.	2956 Sep 15 09:33	26° Mg 33′41	33.88764 AU
morning rise	2949 Sep 15 18:40	13° m) 16'40					

agniunation	2956 Sep 18 12:26	26° Mp 40'16	13°27'14	direct	2963 Jun 19 14:41	9° ≙ 30'29	
conjunction minimum elong	2956 Sep 18 12:04	-•	13°27'14 13°27'13	max. Earth dist.	2963 Oct 02 06:25		32.44479 AU
_	2956 Sep 18 12.04 2956 Sep 25 15:41	26° Mp 40'14	13 2/13	max. Earm dist.	2903 Oct 02 00.23	11 == 3/2/	32.44479 AU
morning rise		26° Mp 55'17			20(2.0-+ 05.00-46	120 0 02120	1.5920120
retrograde	2956 Dec 30 16:43	29° Mp 00'20	1.402011.0	conjunction	2963 Oct 05 00:46	12° ₽ 03'39	15°29'30
opposition	2957 Mar 17 23:31	•	14°28'10	minimum elong	2963 Oct 05 00:28	12° ₽ 03'38	15°29'30
min. Earth dist.	2957 Mar 20 18:51		31.83373 AU	retrograde	2964 Jan 16 13:28	14° £ 33'14	1.002.014.6
direct	2957 Jun 06 03:54	26° Mp 21'51		opposition	2964 Apr 02 04:43	13° £ 12'48	16°36'46
evening set	2957 Sep 14 12:34	28° m/32'32		min. Earth dist.	2964 Apr 04 16:55	13° ≏ 08'40	30.43305 AU
max. Earth dist.	2957 Sep 17 19:13	28° II) 39'29	33.66201 AU	direct	2964 Jun 21 03:34	11° ≏ 49'16	
				max. Earth dist.	2964 Oct 03 21:51	14° £ 17'34	32.26559 AU
conjunction	2957 Sep 20 21:56	28° Mp 46'06	13°47'33				
minimum elong	2957 Sep 20 21:33	28° Mp 46'04	13°47'34	conjunction	2964 Oct 06 15:59	14° ≙ 23'49	15°42'30
morning rise	2957 Sep 27 06:10	28° m 59'35		minimum elong	2964 Oct 06 15:41	14° ≙ 23'47	15°42'29
	2957 Oct 27 07:51	0∘ ত		retrograde	2965 Jan 18 05:41	16° ≙ 54'40	
retrograde	2958 Jan 02 04:12	1° ≏ 07'33		opposition	2965 Apr 04 19:21	15° ≙ 33'54	16°50'16
	2958 Mar 13 14:05	30°R, Mp		min. Earth dist.	2965 Apr 07 06:35		30.25938 AU
opposition	2958 Mar 20 07:52	•	14°49'40	direct	2965 Jun 23 15:48	14° ≙ 10′02	
min. Earth dist.	2958 Mar 23 02:01	29° Mp 44'55	31.61391 AU	max. Earth dist.	2965 Oct 06 16:14	16° ≏ 39'51	32.09306 AU
direct	2958 Jun 08 11:32	28° Mp 28'08					
	2958 Aug 28 15:01	0∘ ಹ		conjunction	2965 Oct 09 07:53	16° ≏ 45'55	15°54'11
evening set	2958 Sep 17 20:31	0° ჲ 42'07		minimum elong	2965 Oct 09 07:38	16° ≏ 45'53	15°54'11
max. Earth dist.	2958 Sep 20 07:08	0° ≙ 47'21	33.44203 AU	retrograde	2966 Jan 20 20:25	19° ≙ 17'57	
				opposition	2966 Apr 07 10:51	17° ≙ 56'53	17°02'20
conjunction	2958 Sep 23 08:28	0° ≙ 53'54	14°07'03	min. Earth dist.	2966 Apr 09 21:00	17° ≙ 52'52	30.09221 AU
minimum elong	2958 Sep 23 08:05	0° £ 53'52	14°07'02	direct	2966 Jun 26 06:37	16° ≙ 32'41	
morning rise	2958 Sep 28 19:16	1° ≏ 05'36		max. Earth dist.	2966 Oct 09 09:27	19° ≙ 03'46	31.92761 AU
retrograde	2959 Jan 04 14:36	3° ₽ 16'44					
opposition	2959 Mar 22 17:08	1° ≏ 58'03	15°10'16	conjunction	2966 Oct 12 00:26	19° ≏ 09'49	16°04'28
min. Earth dist.	2959 Mar 25 11:07	1° ≏ 53'39	31.40012 AU	minimum elong	2966 Oct 12 00:11	19° ഫ 09'48	16°04'28
direct	2959 Jun 10 19:13	0° ჲ 36'25		retrograde	2967 Jan 23 14:33	21° ≏ 43'00	
evening set	2959 Sep 21 08:58	2° £ 54'03		opposition	2967 Apr 10 02:52	20° ≏ 21'38	17°12'51
max. Earth dist.	2959 Sep 22 19:38	2° ♀ 57'10	33.22870 AU	min. Earth dist.	2967 Apr 12 11:09	20° ≏ 17'44	29.93215 AU
				direct	2967 Jun 28 21:41	18° ≙ 57'06	
conjunction	2959 Sep 25 19:42	3° ഫ 03'41	14°25'39	max. Earth dist.	2967 Oct 12 05:10	21° ≏ 29'34	31.76956 AU
minimum elong	2959 Sep 25 19:21	3° 亞 03'39	14°25'39				
morning rise	2959 Sep 30 05:31	3° ഫ 13'15		conjunction	2967 Oct 14 17:49	21° ≏ 35'25	16°13'18
retrograde	2960 Jan 07 04:27	5° £ 27'53		minimum elong	2967 Oct 14 17:37	21° ≏ 35'24	16°13'18
opposition	2960 Mar 24 03:13	4° ≙ 08'48	15°29'52	retrograde	2968 Jan 26 06:54	24° ₽ 09'42	
min. Earth dist.	2960 Mar 26 19:16	4° ჲ 04'30	31.19307 AU	opposition	2968 Apr 11 19:54	22° ≏ 48'01	17°21'47
direct	2960 Jun 12 06:18	2° ≏ 46'44		min. Earth dist.	2968 Apr 14 03:28	22° ₽ 44'09	29.77950 AU
evening set	2960 Sep 24 04:46	5° ഫ 08'41		direct	2968 Jun 30 13:06	21° ≏ 23'10	
max. Earth dist.	2960 Sep 24 08:33	5° ഫ 09'02	33.02221 AU	max. Earth dist.	2968 Oct 14 00:32	23° ♀ 56'51	31.61971 AU
conjunction	2960 Sep 27 07:47	5° ≙ 15'31	14°43'15	conjunction	2968 Oct 16 11:29	24° ₽ 02'36	16°20'34
minimum elong	2960 Sep 27 07:26	5° ≙ 15′29	14°43'15	minimum elong	2968 Oct 16 11:17	24° ≙ 02'34	16°20'34
morning rise	2960 Sep 30 09:59	5° £ 22'17		retrograde	2969 Jan 28 02:10	26° ≏ 37'53	
retrograde	2961 Jan 08 18:01	7° ≙ 41'05		opposition	2969 Apr 14 13:28	25° ≙ 15'54	17°29'01
opposition	2961 Mar 26 14:19	6° ≏ 21'38	15°48'23	min. Earth dist.	2969 Apr 16 18:20	25° ≙ 12'13	29.63514 AU
min. Earth dist.	2961 Mar 29 06:16	6° ₽ 17'20	30.99296 AU	direct	2969 Jul 03 08:03	23° ♀ 50'46	
direct	2961 Jun 14 16:15	4° £ 59'11		max. Earth dist.	2969 Oct 16 21:09	26° £ 25'41	31.47867 AU
max. Earth dist.	2961 Sep 26 23:31	7° £ 23'06	32.82295 AU				
				conjunction	2969 Oct 19 05:47	26° ≏ 31'13	16°26'14
conjunction	2961 Sep 29 20:39	7° ≏ 29'27	14°59'49	minimum elong	2969 Oct 19 05:39	26° ₽ 31'12	16°26'14
minimum elong	2961 Sep 29 20:19	7° ≏ 29'25	14°59'50	retrograde	2970 Jan 30 20:06	29° ₽ 07'27	
evening set	2961 Sep 29 12:43	7° ≏ 28'43		opposition	2970 Apr 17 07:48	27° ≙ 45'11	17°34'27
morning rise	2961 Sep 30 03:58	7° ≙ 30'08		min. Earth dist.	2970 Apr 19 11:42	27° ₽ 41'33	29.49986 AU
retrograde	2962 Jan 11 07:47	9° ≙ 56'23		direct	2970 Jul 06 01:41	26° ≙ 19'47	
opposition	2962 Mar 29 02:12	8° ₽ 36'36	16°05'46	max. Earth dist.	2970 Oct 19 18:30	28° ≏ 55'52	31.34755 AU
min. Earth dist.	2962 Mar 31 16:06	8° ≏ 32'24	30.79977 AU				
direct	2962 Jun 17 04:17	7° ≙ 13'46		conjunction	2970 Oct 22 00:23	29° ≏ 01'10	16°30'11
max. Earth dist.	2962 Sep 29 13:26	9° ॒ 39′08	32.63054 AU	minimum elong	2970 Oct 22 00:15	29° ≏ 01'09	16°30'11
				-	2970 Nov 16 11:45	0° M ₊	
conjunction	2962 Oct 02 10:12	9° ≙ 45'31	15°15'15	retrograde	2971 Feb 02 16:01	1°MJ38'15	
minimum elong	2962 Oct 02 09:51	9° ≙ 45'29	15°15'14	opposition	2971 Apr 20 02:38	0°M15'45	17°38'02
retrograde	2963 Jan 13 22:41	12° ≏ 13'47		min. Earth dist.	2971 Apr 22 03:12	0°M12'20	29.37446 AU
opposition	2963 Mar 31 15:03	10° ≙ 53'40	16°21'55		2971 Apr 29 11:54	30° ₹	
min. Earth dist.	2963 Apr 03 04:42	10° ≏ 49'28	30.61326 AU	direct	2971 Jul 08 21:24	28° ≏ 50'07	

	2071 G 12 00 20	0000		11	2070 1 1 20 17 40	100 M 20110	
Earth diet	2971 Sep 13 08:39	0°M	21 22/00 ATT	direct	2979 Jul 29 17:48	19°M29'18	20 (5070 AII
max. Earth dist.	2971 Oct 22 15:45	1*1162/14	31.22689 AU	max. Earth dist.	2979 Nov 13 09:37	22*11611142	30.65970 AU
aaniunation	2971 Oct 24 19:31	1° M .32'21	16°32'22	conjunction	2979 Nov 14 14:23	22° M .14'37	15°42'36
conjunction minimum elong		1°ML32'21	16°32'22	minimum elong	2979 Nov 14 14:23 2979 Nov 14 14:37	22°M14'39	15 42 36 15°42'35
retrograde	2971 Oct 24 19:27 2972 Feb 05 12:15	4°ML10'14	10 32 22	retrograde	2980 Feb 26 07:48	24°M55'31	13 42 33
opposition	2972 Apr 21 22:07	2°M47'31	17°39'41	opposition	2980 May 13 01:03	23°M32'15	16°30'50
min. Earth dist.	2972 Apr 21 22:07 2972 Apr 23 21:10		29.25971 AU	min. Earth dist.	2980 May 14 02:42		28.72555 AU
direct	2972 Jul 10 15:59	1°M21'44	2).23)/1 AU	direct	2980 Jul 31 17:31	22°M06'14	20.72333 AO
max. Earth dist.	2972 Jul 10 13:59 2972 Oct 24 14:56		31.11759 AU	max. Earth dist.	2980 Nov 15 09:45		30.63613 AU
max. Lattii dist.	2)/2 000 24 14.50	3 1103737	31.11737710	max. Earth dist.	2,00 1101 13 07.43	2+ II U +0 30	30.03013710
conjunction	2972 Oct 26 15:04	4°ML04'44	16°32'44	conjunction	2980 Nov 16 11:05	24°M51'24	15°28'00
minimum elong	2972 Oct 26 15:00	4°ML04'43	16°32'43	minimum elong	2980 Nov 16 11:19	24°M51'26	15°28'00
retrograde	2973 Feb 07 08:34	6°ML43'19		retrograde	2981 Feb 28 02:55	27°M32'11	
opposition	2973 Apr 24 18:11		17°39'20	opposition	2981 May 15 23:25	26°M08'55	16°23'31
min. Earth dist.	2973 Apr 26 13:52		29.15597 AU	min. Earth dist.	2981 May 16 23:16		28.70478 AU
direct	2973 Jul 13 13:08	3°M54'32		direct	2981 Aug 03 15:30	24°M42'57	
max. Earth dist.	2973 Oct 27 12:42	6°ML33'37	31.01969 AU	max. Earth dist.	2981 Nov 18 08:57	27°M25'32	30.62351 AU
conjunction	2973 Oct 29 10:44	6°MJ38'12	16°31'13	conjunction	2981 Nov 19 07:20	27°M27'48	15°11'36
minimum elong	2973 Oct 29 10:45	6°MJ38'12	16°31'13	minimum elong	2981 Nov 19 07:38	27°M27'50	15°11'36
retrograde	2974 Feb 10 04:52	9° ጤ 17'27			2982 Feb 09 11:25	0° ∡ ¹	
opposition	2974 Apr 27 14:43	7°ML54'27	17°36'57	retrograde	2982 Mar 02 23:24	0° ≯ 08'22	
min. Earth dist.	2974 Apr 29 08:21	7°ML51'31	29.06341 AU		2982 Mar 24 22:17	30°RM₊	
direct	2974 Jul 16 08:04	6°M28'27		opposition	2982 May 18 21:30	28°M45'06	16°05'07
max. Earth dist.	2974 Oct 30 12:53	9°MJ08'30	30.93314 AU	min. Earth dist.	2982 May 19 17:21	28° M43'42	28.69479 AU
				direct	2982 Aug 06 15:01	27°M19'12	
conjunction	2974 Nov 01 06:59	9°M12'43	16°27'49	evening set	2982 Nov 20 06:11	29°M59'05	
minimum elong	2974 Nov 01 07:00	9°M12'43	16°27'49		2982 Nov 20 15:16	0° ∡ ¹	
retrograde	2975 Feb 13 01:29	11°M52'29		max. Earth dist.	2982 Nov 21 08:12	0° ≯ 01'43	30.62206 AU
opposition	2975 Apr 30 11:33	10°M29'25	17°32'32				
min. Earth dist.	2975 May 02 02:32	10°M26'40	28.98154 AU	conjunction	2982 Nov 22 03:26	0° ∡ 03'39	14°53'27
direct	2975 Jul 19 05:22	9°M03'23		minimum elong	2982 Nov 22 03:44	0° ≯ 03'41	14°53'27
max. Earth dist.	2975 Nov 02 11:03	11°ML44'03	30.85752 AU	morning rise	2982 Nov 24 01:16	0° ∡ 08'17	
				retrograde	2983 Mar 05 18:35	2° ∡ ⁴43'54	
conjunction	2975 Nov 04 03:24	11°M48'06	16°22'32	opposition	2983 May 21 19:26	1° ≯ 20'39	15°44'49
minimum elong	2975 Nov 04 03:29	11°ML48'07	16°22'32	min. Earth dist.	2983 May 22 13:08		28.69621 AU
retrograde	2976 Feb 15 23:06	14°M28'20			2983 Jul 23 00:36	30°RM₁	
opposition	2976 May 02 08:56	13°M05'12		direct	2983 Aug 09 13:11	29°M54'52	
min. Earth dist.	2976 May 03 21:17		28.91023 AU		2983 Aug 26 23:26	0° ⊀ ⁷	
direct	2976 Jul 21 01:23	11°M39'07	20.70251 444	evening set	2983 Nov 21 04:41	2° ₹ 29'41	
max. Earth dist.	2976 Nov 04 11:35	14° L20'31	30.79251 AU		2002 34 24 22 12	20 720140	1.402.212.5
· · · · · · · · · · · ·	2076 N 06 00-02	1.40 m 2.4112	16915121	conjunction	2983 Nov 24 23:13	2°×38'48	14°33'35
conjunction	2976 Nov 06 00:03	14°M24'12 14°M24'12	16°15'21 16°15'22	minimum elong	2983 Nov 24 23:33	2°×38'50	14°33'34
minimum elong	2976 Nov 06 00:09 2976 Nov 20 21:47	14 11624 12 15°M	10 13 22	max. Earth dist. morning rise	2983 Nov 24 07:47 2983 Nov 28 18:15	2° × ¹ 47'59	30.63262 AU
retrograde	2977 Feb 17 18:10	17°ML04'46		retrograde	2984 Mar 07 14:20	5° ₹ 18'39	
opposition	2977 May 05 06:47	15°M41'35	17017'34	opposition	2984 May 23 17:17	3° ₹ 1639	15°22'41
min. Earth dist.	2977 May 05 00:47 2977 May 06 16:59		28.84900 AU	min. Earth dist.	2984 May 24 06:57		28.70953 AU
uist.	2977 May 30 10:59	15°RM	20.0.700710	direct	2984 Aug 11 13:34	2°×729'50	20., 3, 33 110
direct	2977 Jul 23 23:22	14°ML15'31		evening set	2984 Nov 21 17:17	5° × 701'01	
	2977 Sep 13 19:30	15°ML		evening see	2,011,0, 21 1,.1,	<i>5</i> 7. 01 01	
max. Earth dist.	2977 Nov 07 10:07		30.73795 AU	conjunction	2984 Nov 26 18:27	5° ∡ 13'11	14°12'02
				minimum elong	2984 Nov 26 18:48	5° х 13′13	14°12'02
conjunction	2977 Nov 08 20:45	17° M L00'48	16°06'18	max. Earth dist.	2984 Nov 26 06:03		30.65545 AU
minimum elong	2977 Nov 08 20:55	17° M L00'49	16°06'18	morning rise	2984 Dec 01 20:04	5° ∡ 25'24	
retrograde	2978 Feb 20 15:48	19°M41'35		retrograde	2985 Mar 10 09:34	7° ∡ 752'34	
opposition	2978 May 08 04:39	18° M ₊18'22	17°07'03	opposition	2985 May 26 14:57	6° ∡ 129′29	14°58'47
min. Earth dist.	2978 May 09 11:41		28.79791 AU	min. Earth dist.	2985 May 27 01:38		28.73528 AU
direct	2978 Jul 26 20:45	16°M52'18		direct	2985 Aug 14 10:39	5° ≯ 04'02	
max. Earth dist.	2978 Nov 10 10:40	19°MJ34'33	30.69366 AU	evening set	2985 Nov 23 11:09	7° ∡ ³32'04	
conjunction	2978 Nov 11 17:39	19° M 37'41	15°55'22	conjunction	2985 Nov 29 13:29	7° ∡ ¹46'43	13°48'53
minimum elong	2978 Nov 11 17:49	19°MJ37'42	15°55'22	minimum elong	2985 Nov 29 13:52	7° ∡ ¹46'46	13°48'53
retrograde	2979 Feb 23 11:20	22°M18'35		max. Earth dist.	2985 Nov 29 05:24	7° ∡ ¹45'55	30.69094 AU
opposition	2979 May 11 02:55	20°M55'21	16°54'31	morning rise	2985 Dec 05 16:08	8° ≯ 01'25	
min. Earth dist.	2979 May 12 08:14	20°M53'16	28.75669 AU	retrograde	2986 Mar 13 04:28	10° ≮ 25'33	

opposition	2986 May 29 12:06	9° ∡ '02'38	14°33'10	max. Earth dist.	2992 Dec 17 00:42	25° √ 12'49	31.24837 AU
min. Earth dist.	2986 May 29 19:15		28.77322 AU	morning rise	2992 Dec 27 13:25	25° × ⁷ 37'15	31.2.037110
direct	2986 Aug 17 09:58	7° ∡ ³37'27		retrograde	2993 Mar 29 23:29	27° х 44'45	
evening set	2986 Nov 25 07:33	10° х 02'35		opposition	2993 Jun 16 05:05	26° ₹ 23'27	10°55'38
Ü				min. Earth dist.	2993 Jun 15 15:12	26° х 24′23	29.33935 AU
conjunction	2986 Dec 02 07:58	10° х 19′23	13°24'13	direct	2993 Sep 04 07:16	25° ₹ '00'28	
minimum elong	2986 Dec 02 08:20	10° ∡ 19′26	13°24'13	evening set	2993 Dec 07 13:04	27° х 08′29	
max. Earth dist.	2986 Dec 02 02:18	10° ∡ 18'49	30.73862 AU				
morning rise	2986 Dec 09 08:41	10° ∡ ³36′13		conjunction	2993 Dec 19 02:42	27° ∡ ³35′09	9°57'30
retrograde	2987 Mar 16 00:22	12° ₹ 57'37		minimum elong	2993 Dec 19 03:04	27° ₹ 35'11	9°57'29
opposition	2987 Jun 01 08:59	11° ∡ ³34'53	14°05'58	max. Earth dist.	2993 Dec 19 18:07	27° х 36′38	31.36583 AU
min. Earth dist.	2987 Jun 01 12:44	11° ∡ ³34'37	28.82314 AU	morning rise	2993 Dec 30 16:05	28° ₰ 01'47	
direct	2987 Aug 20 07:15	10° ₰ 09'59			2994 Mar 11 22:44	0° ප	
evening set	2987 Nov 27 05:48	12° ₹ 32'24		retrograde	2994 Apr 01 12:26	0° る 07'15	
					2994 Apr 22 14:27	30°₹ ⋌ 7	
conjunction	2987 Dec 05 02:04	12° ≯ 51'06	12°58'07	opposition	2994 Jun 18 22:17	28° ∡ ⁴46'11	10°20'26
minimum elong	2987 Dec 05 02:27	12° ≯ 51'09	12°58'06	min. Earth dist.	2994 Jun 18 06:29		29.45769 AU
max. Earth dist.	2987 Dec 05 00:44		30.79800 AU	direct	2994 Sep 07 00:42	27° ≯ 23'31	
morning rise	2987 Dec 12 22:24	13° ∡ *09'50		evening set	2994 Dec 09 15:41	29° ₹ 29'21	
retrograde	2988 Mar 17 16:50	15° ₹ 28'39					
opposition	2988 Jun 03 05:36	14° ₰ 06'09	13°37'17	conjunction	2994 Dec 21 16:30	29° ₹ 56'53	9°24'19
min. Earth dist.	2988 Jun 03 06:41		28.88422 AU	minimum elong	2994 Dec 21 16:51	29° ₹ 56'56	9°24'20
direct	2988 Aug 22 05:12	12° х 41'33		max. Earth dist.	2994 Dec 22 10:51		31.49224 AU
evening set	2988 Nov 28 05:19	15° ∡ 01'22			2994 Dec 23 00:52	0°る	
	2000 B 06 10 22	150 701147	12020142	morning rise	2995 Jan 02 16:56	0°る24'25	
conjunction	2988 Dec 06 19:33	15° ₹21'47	12°30'42	retrograde	2995 Apr 04 01:15	2°る27'53	0044122
minimum elong	2988 Dec 06 19:57	15° \$\frac{7}{21'49}	12°30'43	opposition	2995 Jun 21 14:47	1°る07'02	
max. Earth dist.	2988 Dec 06 20:19		30.86841 AU	min. Earth dist.	2995 Jun 20 19:41		29.58503 AU
morning rise	2988 Dec 15 09:59	15° ₹ 42'12 17° ₹ 58'35		direct	2995 Aug 09 08:39 2995 Sep 09 19:48	30°R , ₹ 29° , ₹44'42	
retrograde opposition	2989 Mar 20 11:12 2989 Jun 06 01:42	1/° × ′38'33	13°07'14	direct	2995 Sep 09 19:48 2995 Oct 10 12:47	29° メ ・44*42	
min. Earth dist.	2989 Jun 05 23:04		28.95612 AU	evening set	2995 Dec 11 18:19	0 3 1° る 48'26	
direct	2989 Aug 25 01:37	16 x 30 30 15° x 12'03	28.93012 AU	evening set	2993 Dec 11 16.19	1 046 20	
evening set	2989 Nov 30 05:37	17° 🖈 12'03		conjunction	2995 Dec 24 05:19	2° ප 16'45	8°50'31
evening set	2707 NOV 30 03.37	1/ 🗡 2/22		minimum elong	2995 Dec 24 05:39	2°ත්16'47	
conjunction	2989 Dec 09 12:36	17° ∡ 751'18	12°02'04	max. Earth dist.	2995 Dec 25 02:09		31.62766 AU
minimum elong	2989 Dec 09 13:00	17° 🖈 51'10	12°02'04	morning rise	2996 Jan 05 16:06	2°පි45'03	31.02700710
max. Earth dist.	2989 Dec 09 17:29		30.94921 AU	retrograde	2996 Apr 05 14:14	4° る 46'37	
morning rise	2989 Dec 18 19:29	18° ₹ 13'15	30.9.1921110	min. Earth dist.	2996 Jun 22 08:42		29.72198 AU
retrograde	2990 Mar 23 03:11	20° ₹ 27'18		opposition	2996 Jun 23 06:42	3° පි 26'01	9°08'00
opposition	2990 Jun 08 21:27	19° ∡ 05'16	12°35'55	direct	2996 Sep 11 11:23	2° る 04'00	
min. Earth dist.	2990 Jun 08 16:50	19° ∡ 05'35	29.03800 AU	evening set	2996 Dec 12 21:04	4° る 05'43	
direct	2990 Aug 27 21:48	17° ∡ ′41′20		C			
evening set	2990 Dec 02 06:53	19° ∡ 56'13		conjunction	2996 Dec 25 17:35	4° る 34'43	8°16'10
				minimum elong	2996 Dec 25 17:55	4° る 34'44	8°16'11
conjunction	2990 Dec 12 05:03	20° х 19′32	11°32'20	max. Earth dist.	2996 Dec 26 18:05	4° る 37'02	31.77272 AU
minimum elong	2990 Dec 12 05:26	20° х 19'34	11°32'20	morning rise	2997 Jan 07 13:36	5° ට 03'41	
max. Earth dist.	2990 Dec 12 11:52	20° ≯ 20'12	31.03979 AU	retrograde	2997 Apr 08 01:12	7° る 03'26	
morning rise	2990 Dec 22 03:13	20° х 42′51		opposition	2997 Jun 25 21:48	5° る 43'05	8°30'56
retrograde	2991 Mar 25 19:12	22° ₹ 54'38		min. Earth dist.	2997 Jun 24 21:01		29.86865 AU
opposition	2991 Jun 11 16:25	21° ₹ 32'52	12°03'29	direct	2997 Sep 14 04:47	4° る 21'26	
min. Earth dist.	2991 Jun 11 07:59		29.12941 AU	evening set	2997 Dec 14 23:54	6° る 21'13	
direct	2991 Aug 30 17:56	20° ∡ 09'15 −				_	
evening set	2991 Dec 04 08:35	22° ₹ 21'47		conjunction	2997 Dec 28 04:53	6° ろ 50'48	7°41'23
	2001 B 11 21 25	220 7 () :	11001126	minimum elong	2997 Dec 28 05:11	6° る 50'50	
conjunction	2991 Dec 14 21:02	22° x 46'21	11°01'36	max. Earth dist.	2997 Dec 29 07:18		31.92738 AU
minimum elong	2991 Dec 14 21:25	22° × ⁷ 46'23	11°01'35	morning rise	2998 Jan 10 09:40	7°る20'21	
max. Earth dist.	2991 Dec 15 07:20		31.13957 AU	retrograde	2998 Apr 10 14:09	9°る18'22	20.02512.411
morning rise	2991 Dec 25 09:16	23° ₹ 10'54		min. Earth dist.	2998 Jun 27 07:50		30.02512 AU
retrograde	2992 Mar 27 08:40	25° ₹ 20'31	11020/01	opposition direct	2998 Jun 28 12:07	7°る58'19 6°る37'03	1 33 28
opposition	2992 Jun 13 11:10	23° 🗷 58'58			2998 Sep 16 20:25	6°537'03 8° 5 35'00	
min. Earth dist. direct	2992 Jun 13 00:56 2992 Sep 01 12:40	23°×'39'40 22°×'35'41	29.22995 AU	evening set	2998 Dec 17 02:44	o O33 00	
evening set	2992 Sep 01 12:40 2992 Dec 05 10:42	24° x '35'41' 24° x '45'56		conjunction	2998 Dec 30 15:40	9° る 05'05	7°06'13
evening set	2772 DCC 03 10.42	47 × 43 30		minimum elong	2998 Dec 30 15:57	9 3 03 03 9° 3 05'07	7°06'13
conjunction	2992 Dec 16 12:09	25° ⊀ 11'36	10°29'57	max. Earth dist.	2998 Dec 30 13:57 2998 Dec 31 21:55		32.09143 AU
minimum elong	2992 Dec 16 12:32	25° ₹ 11'38	10°29'58	morning rise	2999 Jan 13 04:05	9° る 35'08	52.07173 AU
ciong	.,,	, 1150				. 233 00	

	2000 4 12 22-21	110721120		2006 I 14 22-22	22075(147 2057114
retrograde	2999 Apr 12 23:31	11°る31'29	minimum elong	3006 Jan 14 23:22	23° 3 56'47 2°57'14
min. Earth dist.	2999 Jun 29 19:33	10°る13'44 30.19080 AU		3006 Jan 16 20:26	24°る00'46 33.44276 AU
opposition	2999 Jul 01 01:45	10°る11'45 7°15'40	morning rise	3006 Jan 29 22:23	24° る 28'15
direct	2999 Sep 19 11:58	8° ろ 50'55	retrograde	3006 Apr 28 03:15	26°る15'08
evening set	2999 Dec 19 05:47	10° る 47'07	min. Earth dist.	3006 Jul 15 08:03	25° る 00'39 31.55024 AU
		_	opposition	3006 Jul 17 05:35	24°ප්57'47 2°49'48
conjunction	3000 Jan 02 01:36	11°る17'36 6°30'47	direct	3006 Oct 05 20:05	23° る 39'53
minimum elong	3000 Jan 02 01:52	11°る17'37 6°30'47	evening set	3007 Jan 02 02:42	25° る 25'49
max. Earth dist.	3000 Jan 03 09:30	11° る 20'33 32.26429 AU	J		
morning rise	3000 Jan 15 21:11	11° る 48'04	conjunction	3007 Jan 17 04:19	25° る 57'14 2°22'08
retrograde	3000 Apr 15 09:43	13° ප් 42'51	minimum elong	3007 Jan 17 04:25	25° る 57'14 2°22'09
min. Earth dist.	3000 Jul 02 04:45	12°る25'40 30.36522 AU	max. Earth dist.	3007 Jan 19 02:13	26°る01'15 33.65681 AU
opposition	3000 Jul 03 14:42	12° පි 23'28 6°37'38	morning rise	3007 Feb 01 06:02	26° る 28'39
direct	3000 Sep 22 01:45	11° る 03'02	retrograde	3007 Apr 30 10:01	28° る 14'25
evening set	3000 Dec 21 08:37	12° る 57'34	min. Earth dist.	3007 Jul 17 13:20	27°る00'22 31.76570 AU
			opposition	3007 Jul 19 13:27	26° ප 57'22 2°12'34
conjunction	3001 Jan 04 10:50	13° පි 28'23 5°55'11	direct	3007 Oct 08 04:58	25° ප 39'51
minimum elong	3001 Jan 04 11:05	13° る 28'25 5°55'11	evening set	3008 Jan 04 05:16	27° ♂ 24'34
max. Earth dist.	3001 Jan 05 22:14	13° る 31'38 32.44516 AU	- C		
morning rise	3001 Jan 18 12:39	13° る 59'11	conjunction	3008 Jan 19 08:49	27° る 55'53 1°47'20
retrograde	3001 Apr 17 17:18	15° る 52'30	minimum elong	3008 Jan 19 08:53	27° る 55'53 1°47'19
min. Earth dist.	3001 Jul 04 15:42	14°る35'45 30.54751 AU	=	3008 Jan 21 09:38	28°る00'07 33.87552 AU
opposition	3001 Jul 06 03:05	14°る33'27 5°59'29	morning rise	3008 Feb 03 12:14	28° る 27'12
direct	3001 Sep 24 15:10	14 3 3327 3 3727 13° る 13'28	morning risc	3008 Apr 03 12:14	0°≈
evening set	3001 Sep 24 13:10 3001 Dec 23 11:44	15° そ 06'23	retrograde	3008 Apr 03 12:23 3008 May 01 13:39	0 ∞ 0°≈11'55
evening set	3001 DCC 23 11.44	13 000 23	retrograde	3008 May 30 04:16	0 ≈1133 30°Rる
· · · · · · · · · · · ·	2002 I 06 10-27	150727120 5010120	i. David diet	3008 Jul 18 19:41	• •
conjunction	3002 Jan 06 19:27	15°る37'29 5°19'29	min. Earth dist.		28°る58'13 31.98617 AU
minimum elong	3002 Jan 06 19:40	15°る37'30 5°19'28	opposition	3008 Jul 20 20:45	28°る55'10 1°35'40
max. Earth dist.	3002 Jan 08 08:24	15°る40'51 32.63332 AU		3008 Oct 09 13:58	27°る38'02
morning rise	3002 Jan 21 02:55	16°る08'32	evening set	3009 Jan 05 07:42	29° る 21'35
retrograde	3002 Apr 20 01:44	18° 정 00'26			
min. Earth dist.	3002 Jul 06 23:52	16°₹44'14 30.73680 AU	,	3009 Jan 20 12:23	29°る52'45 1°12'51
opposition	3002 Jul 08 14:24	16°ප්41'45 5°21'19	minimum elong	3009 Jan 20 12:26	29°ප්52'46 1°12'51
direct	3002 Sep 27 03:35	15° る 22'12	max. Earth dist.	3009 Jan 22 14:14	29°る57'03 34.09926 AU
evening set	3002 Dec 25 14:51	17° る 13'35		3009 Jan 24 00:27	0° ≈
			morning rise	3009 Feb 04 17:14	0° ≈ 23'56
conjunction	3003 Jan 09 03:26	17° る 44'52 4°43'46	retrograde	3009 May 03 16:29	2° ≈ 07'39
minimum elong	3003 Jan 09 03:38	17° る 44'53 4°43'47	min. Earth dist.	3009 Jul 20 23:01	0°≈54'27 32.21203 AU
max. Earth dist.	3003 Jan 10 18:47	17°る48'26 32.82776 AU	opposition	3009 Jul 23 03:10	0°≈51'13 0°59'11
morning rise	3003 Jan 23 15:49	18° ප 16'08		3009 Aug 29 21:43	30°R₹
retrograde	3003 Apr 22 08:27	20° පි 06'41	direct	3009 Oct 11 21:48	29° る 34'28
min. Earth dist.	3003 Jul 09 09:30	18°る50'54 30.93239 AU	J	3009 Nov 22 08:03	0° ≈
opposition	3003 Jul 11 01:22	18° ප් 48'21 4°43'11	evening set	3010 Jan 07 10:04	1° ≈ 16′56
direct	3003 Sep 29 14:06	17° පි 29'14			
evening set	3003 Dec 27 17:51	19° る 19'10	conjunction	3010 Jan 22 15:30	1°≈47'56 0°38'44
			minimum elong	3010 Jan 22 15:31	1°≈47'56 0°38'44
conjunction	3004 Jan 11 10:41	19° ප 50'34 4°08'07	max. Earth dist.	3010 Jan 24 19:56	1°≈52'25 34.32814 AU
minimum elong	3004 Jan 11 10:51	19°る50'35 4°08'06	morning rise	3010 Feb 06 21:03	2°≈18'56
max. Earth dist.	3004 Jan 13 04:02	19°る54'17 33.02793 AU	retrograde	3010 May 05 17:17	4° ≈ 01'42
morning rise	3004 Jan 26 03:13	20° る 21'57	min. Earth dist.	3010 Jul 23 03:41	2°≈48'53 32.44333 AU
retrograde	3004 Apr 23 14:57	22° る 11'14	opposition	3010 Jul 25 08:51	2° ≈ 45'37 0°23'09
min. Earth dist.	3004 Jul 10 17:15	20°る55'56 31.13342 AU	**	3010 Oct 14 04:55	1° ≈ 29'15
opposition	3004 Jul 12 11:31	20° ප් 53'15 4°05'11	evening set	3011 Jan 09 12:16	3° ≈ 10'43
direct	3004 Oct 01 01:15	19° る 34'32	8		
evening set	3004 Dec 28 20:59	21° ට 23'05	conjunction	3011 Jan 24 17:56	3°≈41'29 0°05'06
evening sec	3001.200 20.20.00	21 025 00	minimum elong	3011 Jan 24 17:57	3°≈41'29 0°05'07
conjunction	3005 Jan 12 17:16	21°る54'33 3°32'35	behind sun begin	3011 Jan 24 11:46	3°≈40′59
minimum elong	3005 Jan 12 17:16	21°る54'34 3°32'36	behind sun end	3011 Jan 25 00:08	3°≈41'58
max. Earth dist.	3005 Jan 12 17.25 3005 Jan 14 12:02	21°る58'21 33.23300 AU		3011 Jan 26 23:46	3°≈46'03 34.56229 AU
		21 03821 33.23300 AC 22°る26'00			3 ≈40 03 34.30229 AU 4°≈12'15
morning rise	3005 Jan 27 13:32		morning rise	3011 Feb 08 23:45	
retrograde	3005 Apr 25 22:21	24°중14'04	desc. node	3011 Mar 21 00:30	5°≈20'56
min. Earth dist.	3005 Jul 13 00:45	22°る59'11 31.33957 AU	~	3011 May 07 18:28	5°≈54'10
opposition	3005 Jul 14 20:56	22°る56'24 3°27'22	min. Earth dist.	3011 Jul 25 06:12	4°≈41'49 32.67977 AU
direct	3005 Oct 03 09:11	21° る 38'06	opposition	3011 Jul 27 13:52	4°≈38'25 -0°12'23
evening set	3005 Dec 30 23:49	23° る 25'18	direct	3011 Oct 16 11:00	3°≈22'28
	2006 1 14 22 15	22076447 205545	evening set	3012 Jan 11 14:18	5°≈02'59
conjunction	3006 Jan 14 23:15	23° る 56'47 2°57'15			

aaniumatian	3012 Jan 26 19:36	5° ≈ 33'29	0020112	ratra ara da	2019 May 10, 10:47	18° ≈ 21'26	
conjunction minimum elong	3012 Jan 26 19:35			retrograde min. Earth dist.	3018 May 19 19:47		24 42202 ATT
max. Earth dist.	3012 Jan 20 19.33 3012 Jan 29 03:07	5°≈33'29	34.80108 AU	opposition	3018 Aug 06 16:13 3018 Aug 09 08:14	17 ≈1147 17°≈08'01	34.42392 AU
morning rise	3012 Jan 29 03.07 3012 Feb 11 01:17	5 ≈3809 6°≈04'00	34.80108 AU	direct	3018 Oct 29 08:10	17 ≈08 01 15°≈54'49	-4 04 33
		0 ≈04 00 7°≈45'08		evening set	3019 Jan 24 01:32	13 ≈3449 17°≈30'06	
retrograde min. Earth dist.	3012 May 08 20:28 3012 Jul 26 09:15		32.92100 AU	evening set	3019 Jan 24 01.32	1/ ≈3000	
				aaniumatian	2010 Eab 07 17:02	1790057156	1005150
opposition	3012 Jul 28 18:25	6°≈29'44	-0-4/24	conjunction	3019 Feb 07 17:02	17°≈57'56	
direct	3012 Oct 17 14:29	5°≈14'13		minimum elong	3019 Feb 07 16:54	17°≈57'55	
evening set	3013 Jan 12 16:09	6° ≈ 53'49		max. Earth dist.	3019 Feb 10 07:58		36.54667 AU
	2012 1 27 20 52	70 - 2401	1000150	morning rise	3019 Feb 22 09:19	18°≈25'49	
conjunction	3013 Jan 27 20:53	7°≈24'01		retrograde	3019 May 21 17:06	20°≈02'36	24 (7002 411
minimum elong	3013 Jan 27 20:50	7°≈24'01	1°00'57	min. Earth dist.	3019 Aug 08 16:09		34.67802 AU
max. Earth dist.	3013 Jan 30 06:31		35.04414 AU	opposition	3019 Aug 11 08:39	18°≈49'27	-4°35'32
morning rise	3013 Feb 12 01:46	7°≈54'15		direct	3019 Oct 31 08:29	17°≈36'36	
retrograde	3013 May 10 21:34	9° ≈ 34'39		evening set	3020 Jan 26 02:17	19° ≈ 11'16	
min. Earth dist.	3013 Jul 28 11:36		33.16610 AU				
opposition	3013 Jul 30 22:06	8°≈19'36	-1°21'51	conjunction	3020 Feb 09 14:29	19° ≈ 38'38	
direct	3013 Oct 19 18:24	7° ≈ 04'29		minimum elong	3020 Feb 09 14:20	19° ≈ 38'37	
evening set	3014 Jan 14 18:03	8° ≈ 43'17		max. Earth dist.	3020 Feb 12 06:49		36.79976 AU
				morning rise	3020 Feb 24 03:12	20°≈06'02	
conjunction	3014 Jan 29 21:27	9° ≈ 13'09		retrograde	3020 May 22 13:40	21° ≈ 42′20	
minimum elong	3014 Jan 29 21:24	9° ≈ 13'09	1°33'13	min. Earth dist.	3020 Aug 09 15:11	20° ≈ 33'15	34.93284 AU
max. Earth dist.	3014 Feb 01 07:37	9° ≈ 17'58	35.29050 AU	opposition	3020 Aug 12 08:22	20° ≈ 29'27	-5°05'31
morning rise	3014 Feb 14 01:25	9° ≈ 43'03		direct	3020 Nov 01 08:46	19° ≈ 16'55	
retrograde	3014 May 13 00:33	11° ≈ 22'45		evening set	3021 Jan 27 03:06	20° ≈ 51′02	
min. Earth dist.	3014 Jul 30 12:49	10°≈11'40	33.41444 AU				
opposition	3014 Aug 02 01:16	10° ≈ 08′03	-1°55'42	conjunction	3021 Feb 10 11:20	21° ≈ 17'53	-5°02'53
direct	3014 Oct 21 19:29	8° ≈ 53'22		minimum elong	3021 Feb 10 11:11	21° ≈ 17'53	5°02'53
evening set	3015 Jan 16 19:41	10° ≈ 31′22		max. Earth dist.	3021 Feb 13 03:49	21° ≈ 22'58	37.05371 AU
				morning rise	3021 Feb 24 20:28	21° ≈ 44'49	
conjunction	3015 Jan 31 21:36	11° ≈ 00'53	-2°04'54	retrograde	3021 May 24 11:57	23° ≈ 20'40	
minimum elong	3015 Jan 31 21:32	11° ≈ 00′53	2°04'54	min. Earth dist.	3021 Aug 11 12:34	22° ≈ 11'55	35.18906 AU
max. Earth dist.	3015 Feb 03 09:56	11° ≈ 05'51	35.53941 AU	opposition	3021 Aug 14 07:22	22° ≈ 08′03	-5°34'49
morning rise	3015 Feb 15 23:49	11° ≈ 30′26		direct	3021 Nov 03 06:29	20° ≈ 55'50	
retrograde	3015 May 14 24:00	13° ≈ 09′29		evening set	3022 Jan 29 03:32	22° ≈ 29'27	
min. Earth dist.	3015 Aug 01 15:18	11° ≈ 58'45	33.66502 AU				
opposition	3015 Aug 04 03:55	11° ≈ 55′08	-2°28'57	conjunction	3022 Feb 12 07:50	22° ≈ 55'48	-5°30'24
direct	3015 Oct 23 23:16	10° ≈ 40′51		minimum elong	3022 Feb 12 07:40	22° ≈ 55'47	5°30'24
evening set	3016 Jan 18 21:24	12° ≈ 18′07		max. Earth dist.	3022 Feb 15 02:18	23° ≈ 00'59	37.30906 AU
				morning rise	3022 Feb 26 12:45	23° ≈ 22'13	
conjunction	3016 Feb 02 21:11	12° ≈ 47'15	-2°36'03	retrograde	3022 May 26 08:01	24°≈57'41	
minimum elong	3016 Feb 02 21:06	12° ≈ 47'15	2°36'03	min. Earth dist.	3022 Aug 13 11:05	23° ≈ 49'11	35.44677 AU
max. Earth dist.	3016 Feb 05 09:31	12° ≈ 52'10	35.79012 AU	opposition	3022 Aug 16 05:56	23° ≈ 45′20	-6°03'24
morning rise	3016 Feb 17 21:34	13° ≈ 16′25		direct	3022 Nov 05 06:06	22° ≈ 33'27	
retrograde	3016 May 16 00:32	14° ≈ 54'51		evening set	3023 Jan 31 03:53	24°≈06'37	
min. Earth dist.	3016 Aug 02 15:18	13° ≈ 44'32	33.91726 AU				
opposition	3016 Aug 05 05:58	13° ≈ 40′50	-3°01'35	conjunction	3023 Feb 14 03:38	24° ≈ 32'27	-5°57'16
direct	3016 Oct 25 02:40	12° ≈ 26'55		minimum elong	3023 Feb 14 03:28	24° ≈ 32′26	5°57'16
evening set	3017 Jan 19 22:51	14° ≈ 03'30		max. Earth dist.	3023 Feb 16 22:03	24° ≈ 37'36	37.56595 AU
				morning rise	3023 Feb 28 04:13	24°≈58'20	
conjunction	3017 Feb 03 20:18	14° ≈ 32'14	-3°06'37	retrograde	3023 May 28 04:51	26° ≈ 33'27	
minimum elong	3017 Feb 03 20:12	14° ≈ 32'13	3°06'36	min. Earth dist.	3023 Aug 15 07:01	25° ≈ 25'21	35.70612 AU
max. Earth dist.	3017 Feb 06 10:22	14° ≈ 37'15	36.04186 AU	opposition	3023 Aug 18 03:55	25°≈21'24	-6°31'17
morning rise	3017 Feb 18 18:19	15° ≈ 01'00		direct	3023 Nov 07 04:26	24°≈09'51	
•	3017 Feb 18 05:42	15° ≈		evening set	3024 Feb 02 04:01	25° ≈ 42'37	
retrograde	3017 May 17 23:06	16°≈38'51		•			
min. Earth dist.	3017 Aug 04 17:00	15° ≈ 28'49	34.17040 AU	conjunction	3024 Feb 15 23:07	26°≈07'55	-6°23'29
opposition	3017 Aug 07 07:33	15° ≈ 25'08		minimum elong	3024 Feb 15 22:56	26° ≈ 07'55	
	3017 Aug 25 09:54	15°R≈		max. Earth dist.	3024 Feb 18 19:11		37.82427 AU
direct	3017 Oct 27 05:33	14° ≈ 11'36		morning rise	3024 Feb 29 19:03	26° ≈ 33'17	
	3017 Dec 25 13:23	15° ≈		retrograde	3024 May 28 23:30	28°≈08'06	
evening set	3018 Jan 22 00:16	15° ≈ 47'31		min. Earth dist.	3024 Aug 16 04:42		35.96691 AU
Č				opposition	3024 Aug 19 01:33	26° ≈ 56'21	
conjunction	3018 Feb 05 19:00	16° ≈ 15'48	-3°36'36	direct	3024 Nov 08 02:34	25°≈45'10	
minimum elong	3018 Feb 05 18:52	16° ≈ 15'47		evening set	3025 Feb 03 03:56	27°≈17'33	
max. Earth dist.				C			
	3018 Feb 08 09:16	16° ≈ 20'49	36.29417 AU				
morning rise	3018 Feb 08 09:16 3018 Feb 20 14:15	16°≈20'49 16°≈44'08	36.29417 AU	conjunction	3025 Feb 16 18:09	27° ≈ 42'19	-6°49'03

minimum elong	3025 Feb 16 17:58	27°≈42'18	6940102	min. Earth dist.	3031 Aug 27 20:30	7°¥27'01	37.78140 AU
max. Earth dist.	3025 Feb 10 17:38 3025 Feb 19 14:48		38.08379 AU	opposition	3031 Aug 30 19:25	7°) 33'06	
morning rise	3025 Mar 02 09:04	27°≈07'08	30.00377 AU	direct	3031 Nov 19 21:37	6° ¥ 24'11	-) 4) 24
retrograde	3025 May 30 16:37	29°≈41'41		evening set	3032 Feb 16 00:22	7°) 54'49	
min. Earth dist.	3025 Aug 18 00:19		36.22849 AU	evening sec	3032100 10 00.22	7 7(511)	
opposition	3025 Aug 20 22:31	28°≈30'15		conjunction	3032 Feb 27 20:45	8° ¥ 15′28	-9°30'17
direct	3025 Nov 10 01:23	27°≈19'25		minimum elong	3032 Feb 27 20:32	8° ¥ 15'27	
evening set	3026 Feb 05 03:53	28° ≈ 51'29		max. Earth dist.	3032 Mar 01 19:26	8°) €20'38	39.87963 AU
Č				morning rise	3032 Mar 10 17:47	8°) 36′10	
conjunction	3026 Feb 18 12:43	29°≈15'41	-7°13'59	retrograde	3032 Jun 09 18:18	10°) 09'31	
minimum elong	3026 Feb 18 12:31	29° ≈ 15'40	7°13'59	min. Earth dist.	3032 Aug 28 13:56	9°) 03′54	38.03374 AU
max. Earth dist.	3026 Feb 21 09:43	29° ≈ 20'56	38.34366 AU	opposition	3032 Aug 31 13:17	8° ¥ 59'59	-10°11'10
morning rise	3026 Mar 03 22:33	29° ≈ 39'57		direct	3032 Nov 20 18:17	7°) €51'18	
	3026 Mar 15 10:49	0°) €		evening set	3033 Feb 16 23:13	9°) €21'45	
retrograde	3026 Jun 01 12:05	1° ∺ 14'16					
min. Earth dist.	3026 Aug 19 20:25	0° ₩ 07'08	36.49041 AU	conjunction	3033 Feb 28 12:35	9°){ 41'46	-9°50'51
opposition	3026 Aug 22 19:02	0°) €03'09	-7°50'43	minimum elong	3033 Feb 28 12:22	9°) 41′46	9°50'52
	3026 Aug 25 02:57	30° R ≈		max. Earth dist.	3033 Mar 03 10:54	9°) 46′53	40.12914 AU
direct	3026 Nov 11 20:53	28° ≈ 52'41		morning rise	3033 Mar 12 02:51	10° 米 01′52	
	3027 Jan 23 21:52	0° ℋ		retrograde	3033 Jun 11 11:25	11° ∺ 35′06	
evening set	3027 Feb 07 03:34	0° ∺ 24'27		min. Earth dist.	3033 Aug 30 06:56		38.28495 AU
				opposition	3033 Sep 02 06:49	10° ¥ 25'46	-10°32'16
conjunction	3027 Feb 20 07:04	0°) 48′06		direct	3033 Nov 22 10:48	9° ∺ 17'20	
minimum elong	3027 Feb 20 06:52	0°) 48′05		evening set	3034 Feb 18 21:51	10°) (47′38	
max. Earth dist.	3027 Feb 23 05:15		38.60350 AU				
morning rise	3027 Mar 05 11:14	1°) 11′48		conjunction	3034 Mar 02 04:12	11°) €07'01	
retrograde	3027 Jun 03 06:07	2°) 45'55	26.75102.441	minimum elong	3034 Mar 02 04:00	11°) €07'00	
min. Earth dist.	3027 Aug 21 16:38		36.75182 AU	max. Earth dist.	3034 Mar 05 03:46		40.37770 AU
opposition	3027 Aug 24 15:11	1° ¥ 35′06	-8°15'47	morning rise	3034 Mar 13 11:11	11°\(\frac{1}{2}26'29	
direct	3027 Nov 13 17:01	0° ∺ 24'59 1° ∺ 56'29		retrograde	3034 Jun 13 02:20	12°) € 59'38	38.53530 AU
evening set	3028 Feb 09 03:11	1° X 56 29		min. Earth dist.	3034 Sep 01 00:21	11° X 54'25 11° X 50'31	
agniunation	3028 Feb 22 00:46	2°) 19'33	9901/57	opposition direct	3034 Sep 03 23:47 3034 Nov 24 04:42	10° X 42'20	-10-52-42
conjunction minimum elong	3028 Feb 22 00:40 3028 Feb 22 00:34	2° X 1933		evening set	3034 Nov 24 04.42 3035 Feb 20 20:28	10)(42 20 12°) (12'30	
max. Earth dist.	3028 Feb 22 00:34 3028 Feb 24 22:22		38.86246 AU	evening set	3033 Feb 20 20.28	12 /(1230	
morning rise	3028 FC0 24 22:22 3028 Mar 05 23:20	2°)(42'40	36.60240 AU	conjunction	3035 Mar 03 19:20	12° ¥ 31'16	-10°30'08
retrograde	3028 Jun 04 02:32	4°)(16'37		minimum elong	3035 Mar 03 19:08	12° X 31'15	
min. Earth dist.	3028 Aug 22 11:19		37.01222 AU	max. Earth dist.	3035 Mar 06 18:17		40.62573 AU
opposition	3028 Aug 25 10:56	3° ₩ 06'06		morning rise	3035 Mar 14 18:59	12°\(\)50'05	10.02575710
direct	3028 Nov 14 10:54	1° ¥ 56′19	0 .011	retrograde	3035 Jun 14 19:26	14°) (23'11	
evening set	3029 Feb 10 02:42	3°) €27'34		min. Earth dist.	3035 Sep 02 15:39		38.78528 AU
Č				opposition	3035 Sep 05 16:28	13°)(14'18	
conjunction	3029 Feb 22 18:26	3° ¥ 50′03	-8°24'55	direct	3035 Nov 25 19:25	12°) €06'22	
minimum elong	3029 Feb 22 18:14	3° ¥ 50′02	8°24'55	evening set	3036 Feb 22 18:42	13° ¥ 36′27	
max. Earth dist.	3029 Feb 25 17:15	3° ¥ 55'19	39.11992 AU				
morning rise	3029 Mar 07 10:56	4°) 12′36		conjunction	3036 Mar 04 10:06	13°) 54'35	-10°48'51
retrograde	3029 Jun 05 20:31	5°) 46′22		minimum elong	3036 Mar 04 09:53	13°) € 54'34	10°48'51
min. Earth dist.	3029 Aug 24 07:30	4°) 40′03	37.27081 AU	max. Earth dist.	3036 Mar 07 10:19	13° ¥ 59'43	40.87331 AU
opposition	3029 Aug 27 06:08	4°) 36′08	-9°03'55	morning rise	3036 Mar 15 02:11	14°) (12′45	
direct	3029 Nov 16 06:25	3° ∺ 26′39		retrograde	3036 Jun 15 10:42	15°)(45'49	
evening set	3030 Feb 12 02:11	4°) 57'41		min. Earth dist.	3036 Sep 03 08:41		39.03478 AU
				opposition	3036 Sep 06 08:53	14°) 37′10	-11°31'38
conjunction	3030 Feb 24 11:38	5° ∺ 19'34		direct	3036 Nov 26 11:34	13° ¥ 29′32	
minimum elong	3030 Feb 24 11:25	5° ¥ 19'33		evening set	3037 Feb 23 17:03	14°) ₹ 59'34	
max. Earth dist.	3030 Feb 27 09:33		39.37539 AU				
morning rise	3030 Mar 08 21:53	5°) 41′31		conjunction	3037 Mar 06 00:41	15°) 17′02	
retrograde	3030 Jun 07 14:15	7° ¥ 15′07	25 52512 177	minimum elong	3037 Mar 06 00:28	15°) 17'01	
min. Earth dist.	3030 Aug 26 01:14		37.52719 AU	max. Earth dist.	3037 Mar 09 00:48		41.12039 AU
opposition	3030 Aug 29 00:53	6° ₩ 05'09	-9~26.59	morning rise	3037 Mar 16 08:53	15°) (34'32	
direct	3030 Nov 18 01:18	4° ¥ 55'57		retrograde	3037 Jun 16 23:35	17°) €07'37	20.20245 411
evening set	3031 Feb 14 01:21	6° ∺ 26'47		min. Earth dist.	3037 Sep 04 23:30	16° X 03'10 15° X 59'14	39.28345 AU
conjugation	3031 Feb 26 04:19	6°) 48′03	000006	opposition direct	3037 Sep 08 00:35 3037 Nov 28 04:30	15° X 59'14 14° X 51'51	-11 300/
conjunction minimum elong	3031 Feb 26 04:19 3031 Feb 26 04:07	6° X 48'03 6° X 48'02		evening set	3037 Nov 28 04:30 3038 Feb 25 15:16	14° X 51'51 16° X 21'53	
max. Earth dist.	3031 Feb 26 04:07 3031 Mar 01 02:40		39.62847 AU	evening set	3030 FEU 23 13.10	10 八21 33	
morning rise	3031 Mar 10 02:40 3031 Mar 10 08:12	0 X 33 13 7° X 09′23	57.02047 AU	conjunction	3038 Mar 07 14:51	16°) 38'41	-11°24'30
retrograde	3031 Jun 09 04:46	8° \(\) 42'51		minimum elong	3038 Mar 07 14:39	16°) 38'40	
	505. Vali 07 07.70	5 /(1231			5050 Mui 0/ 17.5/	10 /(30 40	2.2/

Earth diet	3038 Mar 10 14:53	1.00M 4214C 41 20020 ATT		2045 Mar. 16, 11,00	2501/50141 12011147
max. Earth dist.		16° ¥ 43'46 41.36639 AU	conjunction	3045 Mar 16 11:09	25°) 50'41 -13°11'47
morning rise	3038 Mar 17 15:10	16° ¥ 55'32	minimum elong	3045 Mar 16 10:57	25°\(\frac{1}{5}\)50'40 13°11'47
retrograde	3038 Jun 18 13:16	18° ¥ 28'40	max. Earth dist.	3045 Mar 19 09:05	25°¥55'26 43.01759 AU
min. Earth dist.	3038 Sep 06 15:24	17° ∺ 24′26 39.53099 AU	morning rise	3045 Mar 23 19:53	26° ∺ 02'39
opposition	3038 Sep 09 16:15	17° 米 20'31 -12°08'00	retrograde	3045 Jun 27 09:47	27° ∺ 36'40
direct	3038 Nov 29 20:51	16° ¥ 13′26	min. Earth dist.	3045 Sep 15 21:45	26° ₭ 33'47 41.18583 AU
evening set	3039 Feb 27 13:17	17°) 43′28	opposition	3045 Sep 18 20:25	26° ¥ 30'05 -13°57'01
			direct	3045 Dec 09 02:19	25°) €24'42
conjunction	3039 Mar 09 04:45	17° ¥ 59'37 -11°41'27	evening set	3046 Mar 11 01:10	26° 升 55′27
minimum elong	3039 Mar 09 04:33	17° ¥ 59'36 11°41'27			
max. Earth dist.	3039 Mar 12 05:40	18°) €04'43 41.61099 AU	conjunction	3046 Mar 17 23:17	27° ₭ 06'38 -13°25'02
morning rise	3039 Mar 18 20:40	18° ¥ 15'48	minimum elong	3046 Mar 17 23:08	27° ₭ 06'37 13°25'02
retrograde	3039 Jun 20 02:36	19° ¥ 49′01	max. Earth dist.	3046 Mar 20 22:12	27° 升 11′25 43.24127 AU
min. Earth dist.	3039 Sep 08 07:02	18°) 44′59 39.77662 AU	morning rise	3046 Mar 24 21:36	27° 升 17'50
opposition	3039 Sep 11 07:33	18° ¥ 41'07 -12°25'16	retrograde	3046 Jun 28 22:58	28° ¥ 52'05
direct	3039 Dec 01 13:09	17°) 34′19	min. Earth dist.	3046 Sep 17 11:46	27°) 49'18 41.41031 AU
evening set	3040 Feb 29 11:33	19° 米 04′22	opposition	3046 Sep 20 09:27	27° ∺ 45'41 -14°10'24
e venning see	30.0100 27 11.55	15 7(0.22	direct	3046 Dec 10 14:37	26°\(\frac{40}{31}\)
conjunction	3040 Mar 09 18:24	19° ¥ 19'51 -11°57'49	evening set	3047 Mar 12 23:41	28°) 11'28
minimum elong	3040 Mar 09 18:13	19° 米 19'50 11°57'49	evening set	304/ Widi 12 23.41	20 /(1120
max. Earth dist.	3040 Mar 12 18:14	19° \(\) 24'51 41.85347 AU	amiumation	3047 Mar 19 10:54	28°){ 21'52 -13°37'46
			conjunction		
morning rise	3040 Mar 19 01:54	19° ★ 35'22	minimum elong	3047 Mar 19 10:43	28°\(\frac{1}{2}21'52\) 13°37'45
retrograde	3040 Jun 20 18:52	21° ∺ 08'40	max. Earth dist.	3047 Mar 22 08:50	28° ₭ 26'34 43.46301 AU
min. Earth dist.	3040 Sep 08 21:27	20° 米 04'55 40.01996 AU	morning rise	3047 Mar 25 22:16	28° ∺ 32'17
opposition	3040 Sep 11 22:29	20° 米 01′02 -12°41′56		3047 Jun 06 11:24	0° Υ
direct	3040 Dec 02 01:47	18° ¥ 54′30	retrograde	3047 Jun 30 12:26	0° Y ′06′48
evening set	3041 Mar 02 09:39	20°) €24'38		3047 Jul 24 15:27	30° ₹
			min. Earth dist.	3047 Sep 18 23:28	29° ₭ 04'15 41.63299 AU
conjunction	3041 Mar 11 07:58	20°) 39′25 -12°13′39	opposition	3047 Sep 21 22:10	29° 升 00'36 -14°23'14
minimum elong	3041 Mar 11 07:45	20°) 39′25 12°13′40	direct	3047 Dec 12 01:11	27° 升 55'38
max. Earth dist.	3041 Mar 14 08:27	20°) 44′26 42.09319 AU	evening set	3048 Mar 13 22:32	29° 升 26'52
morning rise	3041 Mar 20 06:43	20°) 54′16			
retrograde	3041 Jun 22 08:44	22°) €27'41	conjunction	3048 Mar 19 22:26	29° 升 36'28 -13°49'59
min. Earth dist.	3041 Sep 10 13:39	21° ¥ 24′04 40.26011 AU	minimum elong	3048 Mar 19 22:17	29° 升 36'27 13°49'59
opposition	3041 Sep 13 13:11	21° ∺ 20′17 -12°58′02	max. Earth dist.	3048 Mar 22 20:51	29°) 41′09 43.68299 AU
direct	3041 Dec 03 16:16	20°) 14′01	morning rise	3048 Mar 25 22:30	29°) 46′04
evening set	3042 Mar 04 08:00	21°) 44'13		3048 Apr 03 17:52	0° Υ
e venning see	20.21.141 01 00.00	21 /(1115	retrograde	3048 Jun 30 22:45	1° Υ 20'52
conjunction	3042 Mar 12 21:14	21° X 58'20 -12°28'58	min. Earth dist.	3048 Sep 19 13:05	0°Υ18'28 41.85396 AU
minimum elong	3042 Mar 12 21:14 3042 Mar 12 21:03	21° H 58'19 12°28'57	opposition	3048 Sep 22 10:40	0°Υ14'52 -14°35'33
max. Earth dist.	3042 Mar 15 20:30	22°\mathfrak{H}03'14 42.32957 AU	opposition	3048 Oct 04 12:14	30°R) €
		22°) 12'28	J:4		29° ¥ 10′08
morning rise	3042 Mar 21 10:52		direct	3048 Dec 12 14:17	29° Υ 10'08 0° Υ
retrograde	3042 Jun 23 21:45	23°) 46'00		3049 Feb 16 07:21	· ·
min. Earth dist.	3042 Sep 12 03:23	22°\(\frac{1}{42}\)'38 40.49664 AU	evening set	3049 Mar 15 21:55	0° Υ 41'41
opposition	3042 Sep 15 03:24	22°₩38'50 -13°13'36			
direct	3042 Dec 05 06:34	21° \ 32'48	conjunction	3049 Mar 21 09:49	0° Υ 50'27 -14°01'41
evening set	3043 Mar 06 06:12	23° ∺ 03'07	minimum elong	3049 Mar 21 09:39	0° Y 50′26 14°01′41
			max. Earth dist.	3049 Mar 24 08:05	0° Υ 55'07 43.90134 AU
conjunction	3043 Mar 14 10:11	23° ¥ 16'32 -12°43'45	morning rise	3049 Mar 26 21:42	0° Υ 59'12
minimum elong	3043 Mar 14 10:00	23° ¥ 16′31 12°43′45	retrograde	3049 Jul 02 07:16	2° Y '34'21
max. Earth dist.	3043 Mar 17 09:16	23°) €21'24 42.56224 AU	min. Earth dist.	3049 Sep 21 00:50	1° Y 32'10 42.07292 AU
morning rise	3043 Mar 22 14:37	23° ¥ 29′57	opposition	3049 Sep 23 22:46	1° Y 28'34 -14°47'19
retrograde	3043 Jun 25 09:55	25°) €03'38	direct	3049 Dec 14 04:19	0° Υ 24'03
min. Earth dist.	3043 Sep 13 18:42	24°) € 00'24 40.72957 AU	evening set	3050 Mar 17 21:48	1° Ƴ 55'59
opposition	3043 Sep 16 17:34	23° ¥ 56'40 -13°28'36			
direct	3043 Dec 06 21:17	22°) 50′53	conjunction	3050 Mar 22 20:47	2° Y 03'52 -14°12'54
evening set	3044 Mar 07 04:26	24° ∺ 21'19	minimum elong	3050 Mar 22 20:38	2° Y 03'51 14°12'54
	30.1.2/m 0, 01.20		max. Earth dist.	3050 Mar 25 18:20	2° Υ 08'28 44.11753 AU
conjunction	3044 Mar 14 22:51	24°) 33′59 -12°58′01	morning rise	3050 Mar 27 19:50	2° Υ 11'44
minimum elong	3044 Mar 14 22:41	24°) (33'58 12°58'01	retrograde	3050 Jul 03 18:44	3° Υ 47'19
max. Earth dist.	3044 Mar 17 21:56	24° X 33'38 12 38'01 24° X 38'50 42.79149 AU	min. Earth dist.	3050 Sep 22 13:07	2° Υ 45'18 42.28971 AU
				•	
morning rise	3044 Mar 22 17:32	24°) (46'41	opposition	3050 Sep 25 10:43	2° Y 41'43 -14°58'35
retrograde	3044 Jun 25 20:14	26°\(\)20'32	direct	3050 Dec 15 16:31	1° Y 37'27
min. Earth dist.	3044 Sep 14 08:30	25°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	evening set	3051 Mar 19 22:43	3° Y 09'51
opposition	3044 Sep 17 07:12	25°) 13'45 -13°43'05			***************************************
direct	3044 Dec 07 13:26	24° 米 08′10	conjunction	3051 Mar 24 07:45	3°Υ16'45 -14°23'38
evening set	3045 Mar 09 02:45	25° ∺ 38'45	minimum elong	3051 Mar 24 07:37	3° Y 16'45 14°23'38

			(-),		-, p.8
minimum elong	3067 Apr 11 13:06	21° Υ ′33'19 16°18'26	minimum elong	3075 Apr 20 00:40	0° 8 00'46 16°40'37
max. Earth dist.	3067 Apr 13 23:45	21° Y 36'56 47.26514 A	AU max. Earth dist.	3075 Apr 22 06:09	0° 8 03'58 48.38062 AU
retrograde	3067 Jul 23 10:09	23° Y ′09'59	retrograde	3075 Jul 31 22:36	1° 8 34'54
min. Earth dist.	3067 Oct 13 01:42	22° Y 10'03 45.42627 A	AU min. Earth dist.	3075 Oct 21 20:35	0° ୪ 35'32 46.53235 AU
opposition	3067 Oct 15 11:12	22° Y 07'14 -17°03'04	opposition	3075 Oct 23 23:33	0° 8 33'04 -17°23'43
direct	3068 Jan 04 18:25	21° Y 05'54		3075 Nov 23 03:01	30° ₹Ƴ
			direct	3076 Jan 13 06:33	29° Ƴ 32'41
conjunction	3068 Apr 11 21:12	22° Y 38'18 -16°22'24		3076 Mar 03 04:33	0° 8
minimum elong	3068 Apr 11 21:11	22° Y 38'18 16°22'23			
max. Earth dist.	3068 Apr 14 07:47	22° Y 41'54 47.41673 A	AU conjunction	3076 Apr 20 07:38	1° 8 02'39 -16°41'53
retrograde	3068 Jul 23 18:13	24° Ƴ 14'37	minimum elong	3076 Apr 20 07:40	1° 8 02'39 16°41'53
min. Earth dist.	3068 Oct 13 11:37	23° Y 14'43 45.57615 A	AU max. Earth dist.	3076 Apr 22 12:46	1° 8 05'50 48.50662 AU
opposition	3068 Oct 15 19:25	23° Y 11'59 -17°06'53	retrograde	3076 Aug 01 03:48	2° 8 36'32
direct	3069 Jan 05 04:18	22° Y 10'46	min. Earth dist.	3076 Oct 22 03:46	1° 8 37'17 46.65653 AU
			opposition	3076 Oct 24 06:23	1° 8 34'51 -17°24'45
conjunction	3069 Apr 13 05:05	23° Y 42'49 -16°26'01	direct	3077 Jan 13 13:31	0° 8 34'36
minimum elong	3069 Apr 13 05:03	23° Y 42'49 16°26'02			
max. Earth dist.	3069 Apr 15 14:00	23° Y 46'18 47.56388 A	AU conjunction	3077 Apr 21 14:28	2° 8 04'20 -16°42'50
retrograde	3069 Jul 25 04:21	25° Ƴ 18'47	minimum elong	3077 Apr 21 14:30	2° 8 04'20 16°42'49
min. Earth dist.	3069 Oct 14 19:23	24° Y 18'58 45.72186 A	AU max. Earth dist.	3077 Apr 23 17:42	2° 8 07'24 48.62853 AU
opposition	3069 Oct 17 03:10	24° Y 16′15 -17°10′21	retrograde	3077 Aug 02 10:42	3° 8 37'58
direct	3070 Jan 06 09:47	23° Y 15'08	min. Earth dist.	3077 Oct 23 11:43	2° 8 38'48 46.77646 AU
			opposition	3077 Oct 25 13:05	2° 8 36'26 -17°25'29
conjunction	3070 Apr 14 12:41	24° Y 46'51 -16°29'19	direct	3078 Jan 14 20:30	1° 8 36'19
minimum elong	3070 Apr 14 12:41	24° Y 46'51 16°29'19			
max. Earth dist.	3070 Apr 16 21:08	24° Y 50'17 47.70712 Å	AU conjunction	3078 Apr 22 21:25	3° 8 05'49 -16°43'30
retrograde	3070 Jul 26 13:05	26° Y 22′28	minimum elong	3078 Apr 22 21:28	3° 8 05'49 16°43'31
min. Earth dist.	3070 Oct 16 04:52	25° Y 22'40 45.86406 A	AU max. Earth dist.	3078 Apr 25 00:29	3° 8 08'52 48.74587 AU
opposition	3070 Oct 18 11:03	25° Y 20′02 -17°13′28	retrograde	3078 Aug 03 16:10	4° 8 39'14
direct	3071 Jan 07 15:25	24° Ƴ 19′01	min. Earth dist.	3078 Oct 24 20:05	3° 8 40'06 46.89134 AU
			opposition	3078 Oct 26 19:50	3° 8 37'49 -17°25'56
conjunction	3071 Apr 15 20:07	25° Υ 50'24 -16°32'16	direct	3079 Jan 16 05:36	2° 8 37'49
minimum elong	3071 Apr 15 20:06	25° Υ 50'24 16°32'16			
max. Earth dist.	3071 Apr 18 04:25	25° Y 53'49 47.84727 A	AU conjunction	3079 Apr 24 04:03	4° 8 07'05 -16°43'54
retrograde	3071 Jul 27 16:54	27° Y 25'41	minimum elong	3079 Apr 24 04:06	4° 8 07'05 16°43'53
min. Earth dist.	3071 Oct 17 12:28	26° Y 25'59 46.00318 Å	Č	3079 Apr 26 05:02	4° 8 10'00 48.85816 AU
opposition	3071 Oct 19 18:37	26° Y 23'21 -17°16'14	retrograde	3079 Aug 05 01:13	5° 8 40'15
direct	3072 Jan 09 01:35	25° Ƴ 22'27	min. Earth dist.	3079 Oct 26 03:03	4° 8 41'13 47.00104 AU
			opposition	3079 Oct 28 02:27	4° 8 38'57 -17°26'06
conjunction	3072 Apr 16 03:24	26° Y 53'31 -16°34'52	direct	3080 Jan 17 10:43	3° 8 39'03
minimum elong	3072 Apr 16 03:26	26° Y 53'31 16°34'52			
max. Earth dist.	3072 Apr 18 10:14	26° Υ ′56'51 47.98458 A	AU conjunction	3080 Apr 24 10:46	5° 8 08'05 -16°44'02
retrograde	3072 Jul 27 22:42	28° Y 28′29	minimum elong	3080 Apr 24 10:49	5° 8 08'06 16°44'02
min. Earth dist.	3072 Oct 17 20:27	27° Y 28′52 46.13969 A	AU max. Earth dist.	3080 Apr 26 10:54	5° 8 10'56 48.96517 AU
opposition	3072 Oct 20 02:00	27° Y 26′16 -17°18′38	retrograde	3080 Aug 05 10:12	6° 8 41'01
direct	3073 Jan 09 10:28	26° Y 25′29	min. Earth dist.	3080 Oct 26 11:46	5° 8 41'58 47.10559 AU
			opposition	3080 Oct 28 08:54	5° 8 39'49 -17°26'00
conjunction	3073 Apr 17 10:43	27° Υ ′56'15 -16°37'08	direct	3081 Jan 17 14:48	4° 8 40'00
minimum elong	3073 Apr 17 10:43	27° Υ ′56'15 16°37'08			
max. Earth dist.	3073 Apr 19 18:01	27° Υ ′59'35 48.11931 A	AU conjunction	3081 Apr 25 17:23	6° 8 08'48 -16°43'53
retrograde	3073 Jul 29 05:30	29° Ƴ '30'55	minimum elong	3081 Apr 25 17:27	6° 8 08'49 16°43'53
min. Earth dist.	3073 Oct 19 04:59	28° Υ '31'22 46.27343 A	AU max. Earth dist.	3081 Apr 27 16:39	6° 8 11'36 49.06742 AU
opposition	3073 Oct 21 09:19	28° Y 28'49 -17°20'40	retrograde	3081 Aug 06 14:20	7° 8 41'28
direct	3074 Jan 10 19:35	27° Y 28′10	min. Earth dist.	3081 Oct 27 18:12	6° 8 42'30 47.20545 AU
			opposition	3081 Oct 29 15:07	6° 8 40'22 -17°25'37
conjunction	3074 Apr 18 17:41	28° Υ 58'38 -16°39'02	direct	3082 Jan 18 21:55	5° 8 40'38
minimum elong	3074 Apr 18 17:43	28° Υ ′58'39 16°39'03			
max. Earth dist.	3074 Apr 20 23:38	29° Υ '01'53 48.25143 A	AU conjunction	3082 Apr 26 23:34	7° 8 09'12 -16°43'28
	3074 Jun 03 22:36	0° 8	minimum elong	3082 Apr 26 23:37	7° 8 09'12 16°43'29
retrograde	3074 Jul 30 14:33	0° 8 33'02	max. Earth dist.	3082 Apr 28 21:04	7° 8 11'53 49.16526 AU
<u> </u>	3074 Sep 26 17:56	30°R Y	retrograde	3082 Aug 07 18:34	8° 8 41'37
min. Earth dist.	3074 Oct 20 11:42	29° Υ '33'38 46.40443 A	•	3082 Oct 29 01:41	7° 8 42'41 47.30138 AU
opposition	3074 Oct 22 16:26	29° Υ '31'05 -17°22'22	opposition	3082 Oct 30 21:22	7° 8 40'36 -17°24'57
direct	3075 Jan 12 01:07	28° Υ 30'33	direct	3083 Jan 20 05:36	6° 8 40'57
	3075 Apr 19 11:59	0° 8			-
			conjunction	3083 Apr 28 05:54	8° 8 09'18 -16°42'46
conjunction	3075 Apr 20 00:39	0° 8 00'46 -16°40'37	minimum elong	3083 Apr 28 05:59	8° 8 09'18 16°42'46
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max. Earth dist.	3083 Apr 30 03:43	8° 8 12'00 49.25950 AU	conjunction	3091 May 06 05:20	16° 8 02'47 -16°26'56
retrograde	3083 Aug 08 22:52	9° 8 41'30	minimum elong	3091 May 06 05:27	16° 8 02'48 16°26'57
min. Earth dist.	3083 Oct 30 08:49	8° 8 42'35 47.39379 AU	max. Earth dist.	3091 May 07 19:01	16° 8 04'58 49.89275 AU
opposition	3083 Nov 01 03:23	8° 8 40'33 -17°23'59	retrograde	3091 Aug 17 01:49	17° 8 33'30
direct	3084 Jan 21 14:45	7° 8 40'59	min. Earth dist.	3091 Nov 07 13:05	16° 8 34'58 48.00824 AU
			opposition	3091 Nov 09 00:18	16° 8 33'19 -17°05'51
conjunction	3084 Apr 28 12:00	9° 8 09'07 -16°41'46	direct	3092 Jan 29 08:16	15° 8 34'24
minimum elong	3084 Apr 28 12:03	9° 8 09'07 16°41'46			
max. Earth dist.	3084 Apr 30 08:08	9° 8 11'42 49.35057 AU	conjunction	3092 May 06 11:02	17° 8 01'12 -16°23'49
retrograde	3084 Aug 09 06:54	10° 8 41'06	minimum elong	3092 May 06 11:09	17° 8 01'13 16°23'49
min. Earth dist.	3084 Oct 30 14:38	9° 8 42'17 47.48315 AU	max. Earth dist.	3092 May 07 22:30	17° 8 03'15 49.95164 AU
opposition	3084 Nov 01 09:17	9° 8 40'15 -17°22'42	retrograde	3092 Aug 17 06:26	18° 8 31'44
direct	3085 Jan 21 19:58	8° 8 40'46	min. Earth dist.	3092 Nov 07 20:15	17° 8 33'10 48.06397 AU
			opposition	3092 Nov 09 05:39	17° 8 31'36 -17°02'27
conjunction	3085 Apr 29 18:04	10° 8 08'42 -16°40'29	direct	3093 Jan 29 13:55	16° 8 32'44
minimum elong	3085 Apr 29 18:10	10° 8 08'42 16°40'28			
max. Earth dist.	3085 May 01 13:48	10° 8 11'15 49.43855 AU	conjunction	3093 May 07 16:47	17° 8 59'22 -16°20'29
retrograde	3085 Aug 10 14:24	11° 8 40'29	minimum elong	3093 May 07 16:54	17° 8 59'22 16°20'29
min. Earth dist.	3085 Oct 31 22:10	10° 8 41'40 47.56945 AU		3093 May 09 04:04	18° 8 01'24 50.00538 AU
opposition	3085 Nov 02 15:04	10° 8 39'43 -17°21'08	retrograde	3093 Aug 18 08:17	19° 8 29'42
direct	3086 Jan 23 00:11	9° 8 40'20	min. Earth dist.	3093 Nov 09 02:37	18° 8 31'07 48.11467 AU
		4.	opposition	3093 Nov 10 10:41	18° 8 29'36 -16°58'48
conjunction	3086 May 01 00:05	11° 8 08'05 -16°38'53	direct	3094 Jan 30 22:25	17° 8 30'46
minimum elong	3086 May 01 00:10	11° 8 08'05 16°38'53			
max. Earth dist.	3086 May 02 19:21	11° 8 10'36 49.52373 AU	,	3094 May 08 22:15	18° 8 57'14 -16°16'54
retrograde	3086 Aug 11 20:06	12° 8 39'39	minimum elong	3094 May 08 22:23	18° 8 57'15 16°16'53
min. Earth dist.	3086 Nov 02 03:48	11° 8 40'57 47.65274 AU		3094 May 10 07:31	18° 8 59'09 50.05462 AU
opposition	3086 Nov 03 20:45	11° 8 39'00 -17°19'16	retrograde	3094 Aug 19 14:09	20°827'24
direct	3087 Jan 24 04:09	10° 8 39'42	min. Earth dist.	3094 Nov 10 07:54	19° 8 28'50 48.16128 AU
	2007.14 02 05 40	120 407110 16027101	opposition	3094 Nov 11 15:42	19° 8 27'20 -16°54'54
conjunction	3087 May 02 05:48	12° 8 07'18 -16°37'01	direct	3095 Feb 01 03:42	18° 8 28'31
minimum elong	3087 May 02 05:54	12° 8 07'18 16°37'01		2005 Mars 10, 02-27	100 4151 16012104
max. Earth dist.	3087 May 03 23:31	12° 8 09'44 49.60576 AU 13° 8 38'41	,	3095 May 10 03:37	19° 8 54'51 -16°13'04 19° 8 54'51 16°13'04
retrograde min. Earth dist.	3087 Aug 13 01:40	12° 8 40'01 47.73279 AU	minimum elong	3095 May 10 03:43 3095 May 11 12:21	-
	3087 Nov 03 10:48	12° 8 38'09 -17°17'06		3095 May 11 12:21 3095 Aug 20 20:35	19° 8 56'43 50.09991 AU 21° 8 24'51
opposition direct	3087 Nov 05 02:31 3088 Jan 25 09:21	11° 8 38'56	retrograde opposition	3095 Nov 12 20:45	20° 8 24'50 -16°50'45
direct	3000 Jan 23 09.21	11 03630	min. Earth dist.	3095 Nov 12 20.43	20°826'14 48.20417 AU
conjunction	3088 May 02 11:49	13° 8 06'22 -16°34'53	direct	3096 Feb 02 08:43	19° 8 26'03
minimum elong	3088 May 02 11:54	13° 8 06'22 16°34'52	uncet	3090 FC0 02 08.43	19 02003
max. Earth dist.	3088 May 04 05:33	13° 8 08'48 49.68432 AU	conjunction	3096 May 10 09:05	20° 8 52'14 -16°08'58
retrograde	3088 Aug 13 04:33	14° 8 37'36	minimum elong	3096 May 10 09:14	20° 8 52'15 16°08'58
min. Earth dist.	3088 Nov 03 17:32	13° 8 38'58 47.80891 AU	_	3096 May 11 17:15	20° 8 54'05 50.14192 AU
opposition	3088 Nov 05 07:58	13° 8 37'09 -17°14'40	retrograde	3096 Aug 21 02:07	22° 8 22'05
direct	3089 Jan 25 17:56	12° 8 38'03	min. Earth dist.	3096 Nov 11 19:30	21° 8 23'31 48.24385 AU
			opposition	3096 Nov 13 01:25	21° 8 22'07 -16°46'19
conjunction	3089 May 03 17:41	14° 8 05'19 -16°32'28	direct	3097 Feb 02 12:04	20° 8 23'22
minimum elong	3089 May 03 17:47	14° 8 05'19 16°32'29			
max. Earth dist.	3089 May 05 09:25	14° 8 07'38 49.75878 AU	conjunction	3097 May 11 14:21	21° 8 49'27 -16°04'37
	3089 Jun 14 20:01	15° 8	minimum elong	3097 May 11 14:29	21° 8 49'27 16°04'37
retrograde	3089 Aug 14 11:32	15° 8 36'23	max. Earth dist.	3097 May 12 20:48	21° 8 51'11 50.18080 AU
	3089 Oct 15 19:14	15° ₹ 8	retrograde	3097 Aug 22 07:19	23° 8 19'10
min. Earth dist.	3089 Nov 04 23:34	14° 8 37'50 47.88062 AU	min. Earth dist.	3097 Nov 13 01:41	22° 8 20'36 48.28062 AU
opposition	3089 Nov 06 13:26	14° 8 36'02 -17°11'58	opposition	3097 Nov 14 06:19	22° 8 19'15 -16°41'38
direct	3090 Jan 27 00:01	13° 8 37'01	direct	3098 Feb 03 15:42	21° 8 20'33
	3090 May 01 23:55	15° ∀			
			conjunction	3098 May 12 19:33	22° 8 46'33 -16°00'00
conjunction	3090 May 04 23:26	15° 8 04'08 -16°29'49	minimum elong	3098 May 12 19:43	22° 8 46'33 16°00'00
minimum elong	3090 May 04 23:32	15° 8 04'08 16°29'49	max. Earth dist.	3098 May 14 02:17	22° 8 48'18 50.21686 AU
max. Earth dist.	3090 May 06 14:18	15° 8 06'23 49.82835 AU	Č	3098 Aug 23 09:49	24° 8 16'09
retrograde	3090 Aug 15 20:18	16° 8 35'02	min. Earth dist.	3098 Nov 14 07:13	23° 8 17'37 48.31436 AU
min. Earth dist.	3090 Nov 06 07:22	15° 8 36'27 47.94716 AU	11	3098 Nov 15 11:06	23° 8 16'18 -16°36'40
opposition	3090 Nov 07 19:01	15° 8 34'47 -17°09'02	direct	3099 Feb 04 22:54	22° 8 17'40
	3090 Dec 10 14:00	15°R 8			()
direct	3091 Jan 28 04:09	14° 8 35'50	conjunction	3099 May 14 00:44	23° 8 43'34 -15°55'07
	3091 Mar 16 18:15	15° 8	minimum elong	3099 May 14 00:52	23° 8 43'35 15°55'07
			max. Earth dist.	3099 May 15 05:45	23° 8 45'14 50.25004 AU

retrograde opposition min. Earth dist. direct	3099 Aug 24 15:27 3099 Nov 16 15:45 3099 Nov 15 12:13 3100 Feb 06 04:22	25°813'05 24°813'19 -16°31'26 24°814'37 48.34514 AU 23°814'45
conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct	3100 May 15 05:59 3100 May 15 06:09 3100 May 16 10:27 3100 Aug 25 23:27 3100 Nov 17 20:29 3100 Nov 16 18:55 3101 Feb 07 07:57	24°840'35 -15°49'59 24°840'36 15°50'00 24°842'13 50.27988 AU 26°810'02 25°810'21 -16°25'56 25°811'33 48.37226 AU 24°811'51
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	3101 May 16 11:16 3101 May 16 11:24 3101 May 17 14:45 3101 Aug 27 06:06 3101 Nov 17 23:36 3101 Nov 19 00:57	25°\days*337'38 -15°44'37 25°\days*337'38 15°44'36 25°\days*39'11 50.30594 AU 27°\do6'59 26°\do8'34 48.39516 AU 26°\do7'23 -16°20'13