retrograde	2600 Apr 11 04:10	25° ∡ ¹22'52			2605 May 26 03:33	$\Pi^{\circ}0$	
opposition	2600 Jun 11 03:02	20° х 30′47	0°41'21	morning rise	2605 Jun 02 01:21	1° Ⅲ 38′13	
min. Earth dist.	2600 Jun 12 15:46	20° ₹ 19'05	4.32505 AU	retrograde	2605 Oct 10 16:43	21° Ⅱ 45'34	
direct	2600 Aug 12 07:46	15° ∡ ³31'34		min. Earth dist.	2605 Dec 07 17:21	16° Ⅱ 52'55	4.04654 AU
	2600 Nov 29 14:52	0°ප		opposition	2605 Dec 09 05:38	16° Ⅱ 40'32	-0°47'20
evening set	2600 Dec 15 21:14	3° る 37'04		direct	2606 Feb 05 11:45	11° Ⅲ 42'44	
max. Earth dist.	2600 Dec 26 12:47	6° る 02'16	6.25599 AU		2606 Jun 08 02:54	0 \circ	
				evening set	2606 Jun 11 22:58	0° © 52'42	
conjunction	2600 Dec 28 13:25	6° る 30'01	0°11'16				
minimum elong	2600 Dec 28 13:25	6° る 30'02	0°11'16	conjunction	2606 Jun 25 17:08	4° © 02'53	-0°13'52
behind sun begin	2600 Dec 28 07:30	6° る 26'40		minimum elong	2606 Jun 25 17:09	4° © 02'54	0°13'53
behind sun end	2600 Dec 28 19:21	6° る 33'23		behind sun begin	2606 Jun 25 13:02	4° © 00'32	
morning rise	2601 Jan 10 05:00	9° ප 22'56		behind sun end	2606 Jun 25 21:16	4° © 05'16	
desc. node	2601 May 01 02:31	27° る 22'07		max. Earth dist.	2606 Jun 27 23:06	4° © 34'01	6.11492 AU
retrograde	2601 May 15 08:50	27° ⋜ 41'08		morning rise	2606 Jul 09 12:09	7° © 13'13	
opposition	2601 Jul 15 03:36	22° ⋜ 47'38		retrograde	2606 Nov 13 18:57	26° © 12'53	
min. Earth dist.	2601 Jul 16 10:41	22° る 37'39	4.18090 AU	asc. node	2606 Nov 19 21:04	26° © 09'08	
direct	2601 Sep 14 05:55	17° る 50'51		min. Earth dist.	2607 Jan 11 04:32	21° © 19'14	4.18931 AU
	2601 Dec 19 08:35	0° ≈		opposition	2607 Jan 12 09:44	21° © 09'21	0°07'24
evening set	2602 Jan 17 12:54	6° ≈ 35'27		direct	2607 Mar 12 19:41	16°508'46	
max. Earth dist.	2602 Jan 28 22:38	9° ≈ 16′15	6.10729 AU	_	2607 Jun 26 05:50	0 ° Ω	
	2602 1 20 07 05	00 25122	000 510 0	evening set	2607 Jul 17 12:39	4° Ω 38'04	
conjunction	2602 Jan 30 07:05	9°≈35'22			2607 1 1 21 0421	70 0 40140	0000157
minimum elong	2602 Jan 30 07:04	9°≈35'21	0°25'01	conjunction	2607 Jul 31 04:31	7°Ω40'40	0°22'57
morning rise	2602 Feb 12 02:09	12° ≈ 36'01		minimum elong	2607 Jul 31 04:29	7° Ω 40'39	0°22'56
	2602 Feb 22 09:50	15° ≈		max. Earth dist.	2607 Aug 01 16:25	8° Ω 00'41	6.26446 AU
. 1	2602 May 15 01:07	0°)(morning rise	2607 Aug 13 19:24	10° Ω 42'29	
retrograde	2602 Jun 20 20:27	2°) (04'51			2607 Sep 02 13:52	15° Ω 28° Ω 34'21	
	2602 Jul 27 21:29	30°R≈	1901150	retrograde	2607 Dec 15 13:34	$23^{\circ} \Omega 34'21$ $23^{\circ} \Omega 34'09$	0°56'11
opposition min. Earth dist.	2602 Aug 20 07:52	27°≈08'29	4.03974 AU	opposition min. Earth dist.	2608 Feb 13 12:11 2608 Feb 12 21:03	23°Ω34'09 23°Ω39'12	4.33247 AU
direct	2602 Aug 20 20:17 2602 Oct 18 21:57	27°≈04°23 22°≈13'57	4.03974 AU	direct		$18^{\circ} \Omega 31'50$	4.33247 AU
direct	2602 Dec 30 16:42	0° \		direct	2608 Apr 14 06:05 2608 Jul 19 08:12	0°m)	
	2002 DCC 30 10.42	0 /				עוו ט	
evening set	2603 Feb. 21, 07:08	11°¥38'00		avaning sat			
evening set	2603 Feb 21 07:08	11°) 38′00		evening set	2608 Aug 19 01:36	6° m 25′41	
evening set conjunction	2603 Feb 21 07:08 2603 Mar 06 06:15	11°) 38′00 14°) 45′22	-0°54'03	evening set conjunction			0°51'02
					2608 Aug 19 01:36	6° m 25′41	0°51'02 0°51'02
conjunction	2603 Mar 06 06:15	14° ℋ 45'22		conjunction	2608 Aug 19 01:36 2608 Sep 01 11:05	6° Tp 25'41 9° Tp 20'22	
conjunction minimum elong	2603 Mar 06 06:15 2603 Mar 06 06:13	14°\(\dagger)45'22 14°\(\dagger)45'21 14°\(\dagger)43'43 17°\(\dagger)54'10	0°54'03	conjunction minimum elong	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03	6° m 25'41 9° m 20'22 9° m 20'21	0°51'02
conjunction minimum elong max. Earth dist.	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30	14°¥45′22 14°¥45′21 14°¥43′43 17°¥54′10 0° Υ	0°54'03	conjunction minimum elong max. Earth dist.	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35	0°51'02
conjunction minimum elong max. Earth dist.	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23	14° X 45'22 14° X 45'21 14° X 43'43 17° X 54'10 0° Υ 8° Υ 21'48	0°54'03 5.98648 AU	conjunction minimum elong max. Earth dist. morning rise	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45	0°51'02 6.39029 AU 1°26'16
conjunction minimum elong max. Earth dist. morning rise	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28	14° X 45'22 14° X 45'21 14° X 43'43 17° X 54'10 0° Υ 8° Υ 21'48 3° Υ 21'33	0°54'03 5.98648 AU -1°33'03	conjunction minimum elong max. Earth dist. morning rise retrograde	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20	0°51'02 6.39029 AU
conjunction minimum elong max. Earth dist. morning rise retrograde	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44	14°\text{\tiny{\text{\tinx{\text{\ti}\text{\texi\tinit}\text{\texi\tin\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\texit{\texit{\texit{\texi{\texi{\texi{\texi{\texit{\texi}\ti}\texit{\texi{\texi{\texi{\texi{\texit{\texi{\tet	0°54'03 5.98648 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 May 16 05:35	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02	0°51'02 6.39029 AU 1°26'16
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46	14° \(\dagger \) 45'22 14° \(\dagger \) 43'43 17° \(\dagger \) 54'10 0° \(\gamma \) 8° \(\gamma \) 21'48 3° \(\gamma \) 21'33 3° \(\gamma \) 25'00 30° \(\dagger \) \(\dagger \)	0°54'03 5.98648 AU -1°33'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 18:51 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 May 16 05:35 2609 Aug 17 15:19	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω	0°51'02 6.39029 AU 1°26'16
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Nov 24 09:27 2603 Dec 24 15:46	14° \(\dagger 45'22\) 14° \(\dagger 45'21\) 14° \(\dagger 43'43\) 17° \(\dagger 54'10\) 0° \(\gamma\) 8° \(\gamma 21'33\) 3° \(\gamma 25'00\) 30° \(\dagger \dagger 25'52\) 0° \(\gamma\)	0°54'03 5.98648 AU -1°33'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 Aug 17 15:19 2609 Sep 19 20:24	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω 6° Ω 50'02	0°51'02 6.39029 AU 1°26'16 4.43287 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Nov 24 09:27	14° \times 45'22 14° \times 45'21 14° \times 43'43 17° \times 54'10 0° \times 8° \times 21'48 3° \times 22'33 3° \times 25'00 30° \times \times 27'52	0°54'03 5.98648 AU -1°33'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 18:51 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 Aug 17 15:19 2609 Sep 19 20:24	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω 6° Ω 50'02	0°51'02 6.39029 AU 1°26'16 4.43287 AU 1°03'53
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Dec 24 15:46 2604 Mar 29 00:47 2604 Apr 11 07:37 2604 Apr 11 07:37	14° \(\dagger 45'22\) 14° \(\dagger 45'21\) 14° \(\dagger 43'43\) 17° \(\dagger 54'10\) 0° \(\partial 80'\) 8° \(\gamma 21'48\) 3° \(\gamma 25'00\) 30° \(\dagger \dagger 25'20\) 28° \(\dagger 27'52\) 0° \(\partial 14'49\) 21° \(\gamma 27'48\) 21° \(\gamma 27'48\)	0°54'03 5.98648 AU -1°33'03 3.95247 AU -1°03'11 1°03'10	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 May 16 05:35 2609 Aug 17 15:19 2609 Sep 19 20:24 2609 Oct 02 22:31 2609 Oct 02 22:30 2609 Oct 02 02:01 2609 Oct 15 21:55	6° m 25'41 9° m 20'22 9° m 20'21 9° m 22'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω 6° Ω 50'02 9° Ω 39'04 9° Ω 39'03 9° Ω 28'01 12° Ω 26'44	0°51'02 6.39029 AU 1°26'16 4.43287 AU 1°03'53 1°03'52
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Nov 24 09:27 2603 Dec 24 15:46 2604 Mar 29 00:47 2604 Apr 11 07:37 2604 Apr 11 07:37 2604 Apr 12 15:26	14° \(\dagger 45'22\) 14° \(\dagger 43'43\) 17° \(\dagger 54'10\) 0° \(\partial 80'\) 3° \(\cap 21'48\) 3° \(\cap 21'33\) 3° \(\cap 25'00\) 30° \(\dagger \dagger 25'00\) 30° \(\dagger \dagger 25'52\) 0° \(\cap 18° \cap 14'49\) 21° \(\cap 27'48\) 21° \(\cap 27'48\) 21° \(\cap 47'06\)	0°54'03 5.98648 AU -1°33'03 3.95247 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 May 16 05:35 2609 Aug 17 15:19 2609 Sep 19 20:24 2609 Oct 02 22:31 2609 Oct 02 22:30 2609 Oct 02 02:01 2609 Oct 15 21:55 2610 Feb 12 24:00	6° m 25'41 9° m 20'22 9° m 20'21 9° m 22'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω 6° Ω 50'02 9° Ω 39'04 9° Ω 39'03 9° Ω 28'01 12° Ω 26'44 29° Ω 09'19	0°51'02 6.39029 AU 1°26'16 4.43287 AU 1°03'53 1°03'52 6.45738 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Nov 24 09:27 2603 Dec 24 15:46 2604 Mar 29 00:47 2604 Apr 11 07:37 2604 Apr 11 07:37 2604 Apr 12 15:26 2604 Apr 24 17:23	14° \(\dagger 45'22\) 14° \(\dagger 45'21\) 14° \(\dagger 43'43\) 17° \(\dagger 54'10\) 0° \(\partial 80'\) 8° \(\Partial 21'48\) 3° \(\Partial 21'48\) 3° \(\Partial 21'33\) 3° \(\Partial 25'00\) 30° \(\dagger \dagger 42'52\) 0° \(\partial 14'49\) 21° \(\partial 27'48\) 21° \(\partial 27'48\) 21° \(\partial 27'48\) 21° \(\partial 47'06\) 24° \(\partial 42'24\)	0°54'03 5.98648 AU -1°33'03 3.95247 AU -1°03'11 1°03'10	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 May 16 05:35 2609 Aug 17 15:19 2609 Sep 19 20:24 2609 Oct 02 22:31 2609 Oct 02 22:30 2609 Oct 02 02:01 2609 Oct 15 21:55 2610 Feb 12 24:00 2610 Apr 14 14:37	6° m 25'41 9° m 20'22 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω 6° Ω 50'02 9° Ω 39'04 9° Ω 39'03 9° Ω 28'01 12° Ω 26'44 29° Ω 09'19 24° Ω 15'42	0°51'02 6.39029 AU 1°26'16 4.43287 AU 1°03'53 1°03'52 6.45738 AU
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Nov 24 09:27 2603 Dec 24 15:46 2604 Mar 29 00:47 2604 Apr 11 07:37 2604 Apr 11 07:37 2604 Apr 12 15:26 2604 Apr 24 17:23 2604 May 17 04:36 2604 Aug 18 21:12	14° \(\dagger 45'22\) 14° \(\dagger 45'21\) 14° \(\dagger 43'43\) 17° \(\dagger 54'10\) 0° \(\gamma\) 8° \(\gamma 21'48\) 3° \(\gamma 21'48\) 3° \(\gamma 21'33\) 3° \(\gamma 25'00\) 30° \(\dagger \dagger 4\) 28° \(\dagger 42'52\) 0° \(\gamma 11'49\) 21° \(\gamma 27'48\) 21° \(\gamma 27'48\) 21° \(\gamma 27'48\) 21° \(\gamma 47'06\) 24° \(\gamma 42'24\) 0° \(\dagger 15° \dagger 45'50\)	0°54'03 5.98648 AU -1°33'03 3.95247 AU -1°03'11 1°03'10	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2608 Aug 19 01:36 2608 Sep 01 11:05 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 May 16 05:35 2609 Aug 17 15:19 2609 Sep 19 20:24 2609 Oct 02 22:31 2609 Oct 02 22:30 2609 Oct 02 02:01 2609 Oct 02 02:01 2609 Oct 15 21:55 2610 Feb 12 24:00 2610 Apr 14 14:37 2610 Apr 15 12:11 2610 Jun 16 06:24	6° m 25'41 9° m 20'22 9° m 20'21 9° m 22'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0° Ω 6° Ω 50'02 9° Ω 39'04 9° Ω 39'04 9° Ω 39'04 29° Ω 09'19 24° Ω 15'42 24° Ω 08'45 19° Ω 13'22	0°51'02 6.39029 AU 1°26'16 4.43287 AU 1°03'53 1°03'52 6.45738 AU
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2603 Mar 06 06:15 2603 Mar 06 06:13 2603 Mar 06 03:30 2603 Mar 19 07:45 2603 May 12 22:28 2603 Jul 29 01:23 2603 Sep 27 01:03 2603 Sep 26 14:44 2603 Oct 24 21:46 2603 Nov 24 09:27 2603 Dec 24 15:46 2604 Mar 29 00:47 2604 Apr 11 07:37 2604 Apr 11 07:37 2604 Apr 12 15:26 2604 Apr 12 15:26 2604 Apr 24 17:23 2604 May 17 04:36 2604 Aug 18 21:12 2604 Sep 04 05:35 2604 Sep 04 05:35 2604 Nov 02 20:40 2604 Nov 01 15:41 2604 Dec 30 16:26 2605 May 19 08:13	14° \text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex	0°54'03 5.98648 AU -1°33'03 3.95247 AU -1°03'11 1°03'10 5.94081 AU -1°27'18 3.95517 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	2608 Aug 19 01:36 2608 Sep 01 11:03 2608 Sep 01 18:51 2608 Sep 01 18:51 2608 Sep 14 18:15 2609 Jan 14 00:17 2609 Mar 15 06:22 2609 Mar 15 10:34 2609 Aug 17 15:19 2609 Sep 19 20:24 2609 Oct 02 22:31 2609 Oct 02 22:30 2609 Oct 02 02:01 2609 Oct 02 02:01 2609 Oct 15 21:55 2610 Feb 12 24:00 2610 Apr 14 14:37 2610 Apr 15 12:11 2610 Jun 16 06:24 2610 Sep 18 06:59 2610 Oct 20 13:09 2610 Nov 02 09:28 2610 Nov 02 09:28 2610 Nov 02 09:28 2610 Nov 28 02:37 2611 Mar 15 14:34	6° m 25'41 9° m 20'22 9° m 20'21 9° m 20'21 9° m 24'35 12° m 13'45 29° m 17'20 24° m 20'52 24° m 19'29 19° m 18'02 0°	0°51'02 6.39029 AU 1°26'16 4.43287 AU 1°03'53 1°03'52 6.45738 AU 1°32'27 4.46397 AU 6.44964 AU 0°59'25 0°59'25
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min. Earth dist.

2622 Apr 19 20:17

28°**£**22'55 4.46132 AU

direct

2617 Jan 04 23:20

10°848'56

Ji	2622 I 20 12.26	229 0 29124		Ji	2627 Dec 04 23:12	9° Ƴ 15'01	
direct	2622 Jun 20 13:36	23° £ 28'34 0° M		direct	2627 Dec 04 23.12 2628 Apr 08 17:48	9 γ 1301 29° Υ 03'08	
ovening set	2622 Aug 30 02:21 2622 Oct 24 18:37	10°M57'09		evening set	2628 Apr 12 16:17	0° 8	
evening set max. Earth dist.	2622 Nov 04 17:50	10 IIL3709 13°IL20'05	6.44055 AU		2028 Apr 12 10.17	0.0	
max. Earm dist.	2022 NOV 04 17.30	13 1162003	0.44033 AU	agnismation	2629 Amr 22 02:55	2° 8 16'55	1901102
agniumation	2622 Nov. 06, 14:12	13° M .44'15	0°57'26	conjunction minimum elong	2628 Apr 22 02:55 2628 Apr 22 02:56	2° 8 16'56	
conjunction	2622 Nov 06 14:12			Č		2° 8 41'21	
minimum elong	2622 Nov 06 14:13	13°M44'16	0°57'25	max. Earth dist.	2628 Apr 23 19:20	5° 8 32'14	5.94679 AU
	2622 Nov 12 09:13	15°M		morning rise	2628 May 05 14:59	15° 8	
morning rise	2622 Nov 19 07:26	16°M30'18			2628 Jun 16 03:34		
. 1	2623 Jan 30 16:27	0° ⊀ 7		retrograde	2628 Sep 14 19:54	26° 8 09'47	2.07502 444
retrograde	2623 Mar 20 00:14	3° ₹ 25'13		min. Earth dist.	2628 Nov 12 01:22	_	3.97582 AU
	2623 May 08 08:08	30°RM		opposition	2628 Nov 13 09:49	21° 8 05'21	-1°18'41
opposition	2623 May 19 21:06	28°M33'12		direct	2629 Jan 10 07:25	16° 8 09'41	
min. Earth dist.	2623 May 21 08:22	28°M21'57	4.40338 AU		2629 Apr 21 14:15	$\Pi^{\circ 0}$	
direct	2623 Jul 21 13:19	23°M32'26		evening set	2629 May 16 09:57	5° ∏ 42'24	
	2623 Sep 29 01:52	0° ∡ ¹					
evening set	2623 Nov 24 08:57	11° ₹ 17'28		conjunction	2629 May 30 01:56	8° Ⅱ 55'46	
max. Earth dist.	2623 Dec 04 22:25	13° ₹ 38'19	6.34924 AU	minimum elong	2629 May 30 01:58	8° Ⅱ 55'47	0°38'58
				max. Earth dist.	2629 Jun 01 10:56	9° Ⅱ 29'25	6.02401 AU
conjunction	2623 Dec 07 01:45	14° ₰ 06'58	0°34'46	morning rise	2629 Jun 12 20:05	12° Ⅱ 10′02	
minimum elong	2623 Dec 07 01:47	14° ₰ ¹06'58	0°34'46		2629 Sep 15 08:36	0ං වෙ	
morning rise	2623 Dec 19 16:49	16° ≯ 55'53		retrograde	2629 Oct 20 13:23	1° © 58'12	
	2624 Feb 24 12:37	8°0			2629 Nov 24 12:08	30° Ŗ Ⅱ	
retrograde	2624 Apr 20 12:55	4° る 31'34		min. Earth dist.	2629 Dec 17 15:22	27° Ⅲ 05'31	4.08839 AU
	2624 Jun 17 18:02	30°Ŗ ⋌ ¹		opposition	2629 Dec 19 03:15	26° Ⅲ 53'17	-0°32'18
opposition	2624 Jun 20 11:05	29° ∡ ³39'16	0°27'49	direct	2630 Feb 15 15:56	21° Ⅱ 54'38	
min. Earth dist.	2624 Jun 21 23:51	29° ∡ ¹27'33	4.28350 AU		2630 May 01 23:50	0°ಅ	
direct	2624 Aug 21 09:42	24° ∡ ¹40'41		evening set	2630 Jun 22 04:25	10°©51'27	
	2624 Oct 21 19:56	ರ°0		S			
evening set	2624 Dec 24 21:36	12° る 57'48		conjunction	2630 Jul 05 22:16	13° © 59'25	-0°03'16
max. Earth dist.	2625 Jan 04 15:37	15° る 25'58	6.21029 AU	minimum elong	2630 Jul 05 22:17	13° © 59'26	0°03'16
				behind sun begin	2630 Jul 05 13:58	13°954'42	
conjunction	2625 Jan 06 14:06	15° る 52'45	0°01'06	behind sun end	2630 Jul 06 06:37	14°504'09	
minimum elong	2625 Jan 06 14:06	15° る 52'45	0°01'05	max. Earth dist.	2630 Jul 07 23:54	14°927'44	6.16160 AU
behind sun begin	2625 Jan 06 06:07	15°₹48'10	0 01 03	morning rise	2630 Jul 19 16:40	17° 5 07'18	0.10100710
behind sun end	2625 Jan 06 22:05	15°る57'20		asc. node	2630 Aug 08 22:55	21°937'01	
desc. node	2625 Jan 18 02:21	13 ප 37 20		asc. node	2630 Sep 21 01:18	0°Ω	
	2625 Jan 19 06:31	18° る 47'54		retrograde	2630 Nov 22 21:09	5° Ω 44'59	
morning rise				Č .		0°Ω42'15	0022125
	2625 Mar 13 06:02	0°≈ 7°≈ •27!00		opposition	2631 Jan 21 14:37		
retrograde	2625 May 25 11:04	7°≈27'00	0025141	min. Earth dist.	2631 Jan 20 13:05	0° £ 50′51	4.23626 AU
opposition	2625 Jul 25 03:53	2°≈32'50			2631 Jan 26 20:17	30°Rூ	
min. Earth dist.	2625 Jul 26 06:26		4.13443 AU	direct	2631 Mar 22 10:34	25° © 41'01	
	2625 Aug 14 22:03	30°₹る			2631 May 15 17:58	0° Ω	
direct	2625 Sep 23 20:05	27° ප 36'43		evening set	2631 Jul 27 02:43	13° Ω 57'41	
	2625 Nov 02 02:13	0° ≈			2631 Jul 31 19:55	15° Ω	
	2626 Jan 20 10:41	15° ≈					
evening set	2626 Jan 27 04:04	16° ≈ 34'42		conjunction	2631 Aug 09 17:05	16° Ω 57'46	
				minimum elong	2631 Aug 09 17:03	16° Ω 57'45	0°32'03
conjunction	2626 Feb 08 23:30	19°≈36'58		max. Earth dist.	2631 Aug 10 21:37	17° Ω 13'32	6.30800 AU
minimum elong	2626 Feb 08 23:28	19° ≈ 36'57		morning rise	2631 Aug 23 05:52	19° Ω 56′52	
max. Earth dist.	2626 Feb 07 23:22	19° ≈ 22'38	6.06436 AU		2631 Oct 11 12:28	0°Щ	
morning rise	2626 Feb 21 20:06	22° ≈ 40'11		retrograde	2631 Dec 24 03:28	7° m ,31′35	
	2626 Mar 25 22:53	0° ∀		opposition	2632 Feb 22 04:41	2° Mg 32′27	1°06'44
retrograde	2626 Jul 01 15:43	12° ∺ 29'32		min. Earth dist.	2632 Feb 21 19:00	2° Mp 35'40	4.36940 AU
opposition	2626 Aug 30 22:34	7°) 32′09			2632 Mar 13 08:43	30° R Ω	
min. Earth dist.	2626 Aug 31 04:49	7° ₩ 30'06	4.00471 AU	direct	2632 Apr 23 07:50	27° Ω 29'52	
direct	2626 Oct 29 02:42	2° 升 38′06			2632 Jun 03 18:36	O° My	
evening set	2627 Mar 03 14:12	22° 升 12′01		evening set	2632 Aug 28 01:44	15° m 15'08	
conjunction	2627 Mar 16 15:15	25° ∺ 21′22	-0°59'05	conjunction	2632 Sep 10 09:04	18° m 07'50	0°56'16
minimum elong	2627 Mar 16 15:14	25° ∺ 21′21	0°59'04	minimum elong	2632 Sep 10 09:02	18° m 07'49	0°56'15
max. Earth dist.	2627 Mar 16 22:19	25°) €25'39	5.96266 AU	max. Earth dist.	2632 Sep 10 07:24	18°№06'56	6.41769 AU
morning rise	2627 Mar 29 19:07	28°) 32′17		morning rise	2632 Sep 23 14:01	20° m 59'13	
	2627 Apr 04 21:32	$0^{\circ}\Upsilon$			2632 Nov 07 04:16	0∘ ⊽	
retrograde	2627 Aug 08 23:19	19° Ƴ 10'11		retrograde	2633 Jan 22 08:42	7° £ 53'47	
opposition	2627 Oct 07 21:06	14° Υ 08'49	-1°35'24	opposition	2633 Mar 23 17:11	2° £ 58'15	1°30'24
min. Earth dist.	2627 Oct 07 03:30		3.94320 AU	min. Earth dist.	2633 Mar 24 03:26	2° ≏ 54'55	

	2633 Apr 17 05:26	30°R, Mp		min. Earth dist.	2638 Sep 05 08:10	12°) (44′46	3.99372 AU
direct	2633 May 24 23:06	27° m 55'26		direct	2638 Nov 03 05:59	7° ¥ 51'30	
	2633 Jul 01 23:41	0∘ 亚		evening set	2639 Mar 08 17:41	27° 升 27′52	
evening set	2633 Sep 28 11:16	15° ≏ 24'30			2639 Mar 19 05:22	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	2633 Oct 10 08:08	17° ≙ 57'49	6.46165 AU				
				conjunction	2639 Mar 21 19:49	0° Ƴ 37'52	-1°00'51
conjunction	2633 Oct 11 11:39	18° ≏ 12'40	1°04'19	minimum elong	2639 Mar 21 19:48	0° Ƴ 37'52	1°00'50
minimum elong	2633 Oct 11 11:39	18° ≏ 12'40	1°04'20	max. Earth dist.	2639 Mar 22 09:22	0° Ƴ 46′05	5.95810 AU
morning rise	2633 Oct 24 09:11	20° ≏ 59'30		morning rise	2639 Apr 04 00:34	3° Ƴ 49'26	
	2633 Dec 08 03:24	0° M .		retrograde	2639 Aug 14 08:47	24° Ƴ 29'03	
retrograde	2634 Feb 21 10:04	7° M 42'05		min. Earth dist.	2639 Oct 12 09:02	19° Ƴ 33'45	3.94572 AU
opposition	2634 Apr 23 03:02	2°M49'04	1°29'41	opposition	2639 Oct 13 04:33	19° Ƴ 27'11	-1°35'18
min. Earth dist.	2634 Apr 24 04:51	2°M40'47	4.45603 AU	direct	2639 Dec 10 06:06	14° Ƴ 33'16	
	2634 May 16 12:01	30° Ŗ Ω			2640 Mar 26 16:26	$B_{\circ 0}$	
direct	2634 Jun 24 20:30	27° ₽ 47'02		evening set	2640 Apr 13 23:45	4° 8 19'27	
	2634 Aug 03 08:35	0° M .					
	2634 Oct 27 17:07	15° M ₊		conjunction	2640 Apr 27 09:49	7° 8 33'16	-0°59'14
evening set	2634 Oct 29 01:25	15° M ₊17'28		minimum elong	2640 Apr 27 09:51	7° 8 33'17	0°59'14
max. Earth dist.	2634 Nov 08 23:20	17° M 40'04	6.42987 AU	max. Earth dist.	2640 Apr 29 05:22	7° 8 59'30	5.95590 AU
				morning rise	2640 May 10 22:58	10° 8 48'37	
conjunction	2634 Nov 10 20:32	18° M .04'46	0°55'05	Č	2640 May 28 18:20	15° 8	
minimum elong	2634 Nov 10 20:34	18° M .04'47	0°55'05		2640 Aug 22 01:29	0°II	
morning rise	2634 Nov 23 13:13	20°M51'04		retrograde	2640 Sep 19 20:47	1° Ⅲ 20′18	
8 33	2635 Jan 07 10:26	0° ₹ ¹			2640 Oct 18 10:56	30° R 8	
retrograde	2635 Mar 24 11:38	7° ∡ 750'41		min. Earth dist.	2640 Nov 17 01:09		3.99057 AU
opposition	2635 May 24 08:50	2° х 58'47	1°05'00	opposition	2640 Nov 18 11:22	26° 8 15'42	
min. Earth dist.	2635 May 25 21:12		4.38789 AU	direct	2641 Jan 15 09:10	21° 8 19'40	
	2635 Jun 18 10:57	30°RML			2641 Apr 02 10:10	0°II	
direct	2635 Jul 25 23:44	27°M58'21		evening set	2641 May 21 13:27	10° Ⅱ 47'15	
	2635 Sep 01 09:13	0° %		evening see	2011 1114) 21 13.27	10 2 ., 10	
evening set	2635 Nov 28 18:18	15° × 747'42		conjunction	2641 Jun 04 05:53	13° Ⅱ 59'59	-0°34'29
max. Earth dist.	2635 Dec 09 06:11	18°×7'08'23	6.33016 AU	minimum elong	2641 Jun 04 05:56	14° I 100'00	
max. Dartii dist.	2033 Dec 07 00.11	10 % 00 23	0.55010110	max. Earth dist.	2641 Jun 06 13:34	14° II 32'41	6.04282 AU
conjunction	2635 Dec 11 10:49	18° ∡ ³37'52	0°30'28	morning rise	2641 Jun 18 00:27	17° I I13'31	0.01202710
minimum elong	2635 Dec 11 10:49	18° × 37'52	0°30'29	morning risc	2641 Aug 17 08:07	0°95	
morning rise	2635 Dec 24 02:04	21° × ⁷ 27'36	0 3027	retrograde	2641 Oct 25 06:34	6°951'55	
morning 1130	2636 Feb 02 11:06	0°පි 127 × 27 30		min. Earth dist.	2641 Dec 22 10:42	1°958'50	4.10904 AU
retrograde	2636 Apr 25 08:34	9° る 11'37		opposition	2641 Dec 23 20:50	1° 9 38'30	
opposition	2636 Jun 25 05:55	4° る 19'11	0°20'36	оррозион	2642 Jan 06 07:38	30°RⅡ	-0 24 43
min. Earth dist.	2636 Jun 26 17:38		4.26210 AU	direct	2642 Feb 20 14:25	26° ∏ 48'10	
mm. Latti dist.	2636 Aug 05 10:37	30°R <i>≯</i> 7	4.20210 AC	uncer	2642 Apr 06 21:13	0°95	
direct	2636 Aug 26 00:47	29° ₹ 20'57		asc. node	2642 Jun 19 17:47	13° 9 59'59	
direct	2636 Sep 15 14:19	29 ス 2037		evening set	2642 Jun 27 02:06	15° © 39'06	
desc. node	2636 Nov 27 02:23	0 8 10° る 35'28		evening set	2042 Juli 27 02.00	13 3900	
evening set	2636 Dec 29 12:13	10 3 35 28		conjunction	2642 Jul 10 19:54	18°946'05	0°02'02
max. Earth dist.	2637 Jan 09 10:26		6.18870 AU	minimum elong	2642 Jul 10 19:54	18°946'06	0°02'01
max. Earth dist.	2037 Jan 09 10.20	20 013 10	0.100/0 AU	behind sun begin	2642 Jul 10 11:32	18°941'22	0 0201
conjunction	2637 Jan 11 05:07	20° る 39'58	0°04'13	behind sun end	2642 Jul 11 04:17	18°950'50	
minimum elong	2637 Jan 11 05:06	20° ろ 39'58		max. Earth dist.	2642 Jul 12 20:06	19°9513'28	6.18250 AU
behind sun begin	2637 Jan 10 21:14	20° ろ 35'26	0 0413	morning rise	2642 Jul 24 13:39	21°952'48	0.16230 AC
behind sun end	2637 Jan 10 21:14 2637 Jan 11 12:58	20°る44'30		morning risc	2642 Aug 31 08:22	21 3 32 48	
morning rise	2637 Jan 23 21:48	20° ろ 36'10		retrograde	2642 Nov 27 06:55	10° Ω 21'09	
morning rise	2637 Feb 21 12:55	23 3 30 10 0° ≈		min. Earth dist.	2643 Jan 25 01:09		4.25562 AU
ratragrada					2643 Jan 26 00:59	5° Ω 18'58	
retrograde	2637 May 30 15:01	12°≈25'15	0022120	opposition		0°Ω17'32	0 29 20
opposition	2637 Jul 30 06:28	7°≈30'47		direct	2643 Mar 27 00:39	15° Ω	
min. Earth dist.	2637 Jul 31 06:25		4.11458 AU	avanina aat	2643 Jul 15 14:09		
direct	2637 Sep 28 17:20 2638 Jan 03 01:57	2°≈35'07 15°≈		evening set	2643 Jul 31 18:19	18° Ω 29'44	
				:	2642 Asset 14 07:42	219 (22014)	0927110
evening set	2638 Feb 01 01:39	21° ≈ 38′26		conjunction	2643 Aug 14 07:42	21° Ω 28'46	
aaniumatian	2620 Eak 12 21-21	2400041120	0.30100	minimum elong	2643 Aug 14 07:40	21° Ω 28'45	
conjunction	2638 Feb 13 21:31	24°≈41'38		max. Earth dist.	2643 Aug 15 06:30	21° Ω 41'20	6.32432 AU
minimum elong	2638 Feb 13 21:29	24°≈41'37		morning rise	2643 Aug 27 19:40	24° Ω 26'48	
max. Earth dist.	2638 Feb 13 00:48		6.04804 AU		2643 Sep 22 22:10	0°M)	
morning rise	2638 Feb 26 19:05	27°≈45'57		retrograde	2643 Dec 28 09:49	11° Mp 55'18	1011121
, ,	2638 Mar 08 06:44	0° ∀		opposition	2644 Feb 26 10:56	6° Mp 56'44	
retrograde	2638 Jul 06 23:23	17°) 43'21	1010/51	min. Earth dist.	2644 Feb 26 04:51	6° Mp 58'44	4.38179 AU
opposition	2638 Sep 05 06:18	12° ¥ 45′23	-1~18'51	direct	2644 Apr 27 18:42	1° m 54'02	

evening set	2644 Sep 01 11:56	19° m 37'02			2650 Feb 19 22:40	0° ∀	
				morning rise	2650 Mar 03 16:43	2°) 48′25	
conjunction	2644 Sep 14 18:29	22° Mp 29'06	0°58'22	retrograde	2650 Jul 12 07:31	22°) 53'12	
minimum elong	2644 Sep 14 18:27	22° m 29'05	0°58'22	opposition	2650 Sep 10 12:04	17°) (54'41	-1°23'16
max. Earth dist.	2644 Sep 14 14:07	22° Mp 26'44	6.42530 AU	min. Earth dist.	2650 Sep 10 11:53	17°) € 54'45	3.98316 AU
morning rise	2644 Sep 27 22:15	25° m 19'45		direct	2650 Nov 08 08:48	13°) €00'53	
-	2644 Oct 20 03:07	0∘ ⊽			2651 Mar 02 16:29	$0^{\circ}\Upsilon$	
retrograde	2645 Jan 26 12:17	12° ≙ 11'57		evening set	2651 Mar 13 19:56	2° Y 39'48	
opposition	2645 Mar 27 22:31	7° ≙ 16'51	1°31'44				
min. Earth dist.	2645 Mar 28 10:13	7° ₽ 13'03	4.45216 AU	conjunction	2651 Mar 26 23:01	5° Y 50′30	-1°02'09
direct	2645 May 29 05:22	2° ≏ 14'07		minimum elong	2651 Mar 26 23:00	5° Y 50′30	1°02'09
evening set	2645 Oct 02 18:40	19° ≏ 43'14		max. Earth dist.	2651 Mar 27 16:10	6° Ƴ 00'54	5.95272 AU
max. Earth dist.	2645 Oct 14 11:23	22° ₽ 14'32	6.45934 AU	morning rise	2651 Apr 09 05:02	9° Ƴ 02'51	
				retrograde	2651 Aug 19 14:58	29° Ƴ 44'20	
conjunction	2645 Oct 15 18:07	22° ≏ 31'08	1°04'01	min. Earth dist.	2651 Oct 17 11:25	24° Ƴ 49'39	3.94644 AU
minimum elong	2645 Oct 15 18:07	22° £ 31′09	1°04'00	opposition	2651 Oct 18 10:12	24° Ƴ 41'59	-1°34'29
morning rise	2645 Oct 28 14:54	25° Ω 17'46		direct	2651 Dec 15 08:48	19° Ƴ 47'51	
8	2645 Nov 20 00:01	0°M			2652 Mar 08 05:35	0°8	
retrograde	2646 Feb 25 18:07	12°M01'43		evening set	2652 Apr 19 04:56	9° 8 33'07	
opposition	2646 Apr 27 10:43	7°M08'59	1°27'33	evening sec	2002 ripi 19 01.00) 0 33 01	
min. Earth dist.	2646 Apr 28 15:01	6°M59'55	4.44897 AU	conjunction	2652 May 02 16:02	12° 8 47'07	-0°56'59
direct	2646 Jun 29 05:31	2°M07'08	4.440)/ AU	minimum elong	2652 May 02 16:03	12°847'07	0°56'59
direct	2646 Oct 11 09:15	15°M		max. Earth dist.	2652 May 04 13:26		5.96245 AU
avanina aat	2646 Nov 02 08:30	19°M39'40		max. Earth dist.	•	15° 8	3.90243 AU
evening set max. Earth dist.			6.41852 AU	marnina rica	2652 May 11 21:23 2652 May 16 06:11	15 8 02'35	
max. Earm dist.	2646 Nov 13 03:54	22°M01'20	0.41832 AU	morning rise	•		
. ,.	2646 N 15 02 00	220 m 27112	0050105	. 1	2652 Jul 20 07:25	0° П	
conjunction	2646 Nov 15 03:08	22°M27'13	0°52'25	retrograde	2652 Sep 24 22:04	6° Ⅱ 29'35	4 00000 444
minimum elong	2646 Nov 15 03:10		0°52'26	min. Earth dist.	2652 Nov 22 02:02	1° Ⅱ 36′29	4.00202 AU
morning rise	2646 Nov 27 19:29	25°M13'49		opposition	2652 Nov 23 12:27	1° Ⅱ 24'44	-1°07/52
	2646 Dec 20 04:12	0° ∡ 7			2652 Dec 04 01:02	30°₽ 8	
retrograde	2647 Mar 28 23:15	12° ∡ 18'14		direct	2653 Jan 20 12:28	26° 8 28'16	
opposition	2647 May 28 21:09	7° ∡ ¹26′17 –	0°59'43		2653 Mar 08 11:36	$\Pi^{\circ 0}$	
min. Earth dist.	2647 May 30 09:08	7° ∡ 14'49	4.37299 AU	evening set	2653 May 26 17:22	15° ∏ 52'05	
direct	2647 Jul 30 09:16	2° ≯ 26'05					
evening set	2647 Dec 03 03:35	20° ∡ 19'15		conjunction	2653 Jun 09 10:31	19° ∏ 04'24	
max. Earth dist.	2647 Dec 13 17:34	22° ∡ ′41'37	6.31286 AU	minimum elong	2653 Jun 09 10:33	19° ∏ 04′25	0°29'45
				max. Earth dist.	2653 Jun 11 19:31	19° Ⅱ 37'44	6.05823 AU
conjunction	2647 Dec 15 20:03	23° ∡ 10′02	0°26'00	morning rise	2653 Jun 23 05:16	22° Ⅱ 17'18	
minimum elong	2647 Dec 15 20:05	23° ∡ 10′03	0°25'59		2653 Jul 27 19:41	0	
morning rise	2647 Dec 28 11:11	26° ∡ ¹00′27		retrograde	2653 Oct 30 01:39	11° © 47'04	
	2648 Jan 15 14:07	0°ප		min. Earth dist.	2653 Dec 27 05:46	6° © 53'58	4.12664 AU
retrograde	2648 Apr 30 04:14	13° る 52'04		opposition	2653 Dec 28 15:06	6°9542'38	-0°16'58
opposition	2648 Jun 30 00:48	8° る 59'25	0°13'14	J:			
min. Earth dist.			0 15 1 .	direct	2654 Feb 25 11:54	1° 5 43'13	
direct	2648 Jul 01 11:55	8° ප් 48'12	4.24329 AU	asc. node	2654 Feb 25 11:54 2654 Apr 29 09:54		
ancet	2648 Jul 01 11:55 2648 Aug 30 16:19	8°ප්48'12 4°ප්01'31				1° © 43'13	
desc. node				asc. node	2654 Apr 29 09:54	1°543'13 7°532'22	
	2648 Aug 30 16:19	4° ප 01'31		asc. node	2654 Apr 29 09:54	1°543'13 7°532'22	0°07'15
desc. node	2648 Aug 30 16:19 2648 Oct 06 15:27	4°පි01'31 6°පි05'04 22°පි29'17		asc. node evening set	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58	1°543'13 7°532'22 20°529'28	0°07'15 0°07'15
desc. node evening set	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11	4°පි01'31 6°පි05'04 22°පි29'17	4.24329 AU	asc. node evening set conjunction	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58	1°943'13 7°932'22 20°929'28 23°935'31	
desc. node evening set	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11	4°පි01'31 6°පි05'04 22°පි29'17	4.24329 AU 6.16974 AU	asc. node evening set conjunction minimum elong	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58	1°943'13 7°932'22 20°929'28 23°935'31 23°935'31	
desc. node evening set max. Earth dist.	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40	4°ට01'31 6°ට05'04 22°ට29'17 25°ට01'58	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20	1°943'13 7°932'22 20°929'28 23°935'31 23°935'31 23°931'13	
desc. node evening set max. Earth dist. conjunction	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36	1°943'13 7°932'22 20°929'28 23°935'31 23°931'13 23°939'49	0°07'15
desc. node evening set max. Earth dist. conjunction minimum elong	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04 25°G26'04	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35	0°07'15
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04 25°G26'04 25°G22'10	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13	0°07'15
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04 25°G26'04 25°G22'10 25°G29'58	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0°\$\alpha\$	0°07'15
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04 25°G26'04 25°G22'10 25°G29'58 28°G23'17	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°539'49 24°500'35 26°541'13 0°\$\Omega\$ 15°\$\Omega\$	0°07'15
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る22'10 25°る29'58 28°る23'17 0°≈	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0°\$\Omega\$ 15°\$\Omega\$01'09	0°07'15 6.20076 AU
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47	4°♂01'31 6°♂05'04 22°♂29'17 25°♂01'58 25°♂26'04 25°♂22'10 25°♂22'10 25°♂29'58 28°♂23'17 0°≈ 15°≈	4.24329 AU 6.16974 AU -0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0°A 15°A 15°A01'09 15°RA	0°07'15 6.20076 AU
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る22'10 25°る29'58 28°る23'17 0°≈ 15°≈ 17°≈21'25	4.24329 AU 6.16974 AU -0°09'22 0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20	1°\$43'13 7°\$32'22 20°\$29'28 23°\$35'31 23°\$35'31 23°\$31'13 23°\$39'49 24°\$00'35 26°\$41'13 0°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 0'\$\Omega\$ 9°\$\Omega\$59'25	0°07'15 6.20076 AU 0°36'23
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 04 07:49	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る26'04 25°る22'10 25°る29'58 28°る23'17 0°≈ 15°≈ 17°≈21'25 15°8≈	4.24329 AU 6.16974 AU -0°09'22 0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0°0 15°0 15°0 15°0 9°0 15°0	0°07'15 6.20076 AU 0°36'23
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04 25°G22'10 25°G29'58 28°G23'17 0°≈ 15°≈ 17°≈21'25 15°R≈ 12°≈26'26	4.24329 AU 6.16974 AU -0°09'22 0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0°N 15°N 15°N 15°N 9°N 59'25 10°N 06'41 4°N 57'45	0°07'15 6.20076 AU 0°36'23
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist.	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 04 07:49 2649 Aug 05 04:33	4°G01'31 6°G05'04 22°G29'17 25°G01'58 25°G26'04 25°G22'10 25°G22'10 25°G29'58 28°G23'17 0°≈ 15°≈ 17°≈21'25 15°R≈ 12°≈26'26 12°≈19'43	4.24329 AU 6.16974 AU -0°09'22 0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21 2655 Jun 27 15:49	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0° \(\Omega\$ 15° \(\Omega\$ 00'09 15° \(\Omega\$ 00'09 15° \(\Omega\$ 00'41 4° \(\Omega\$ 57'45 15° \(\Omega\$ 0	0°07'15 6.20076 AU 0°36'23
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 04 07:49 2649 Aug 05 04:33 2649 Oct 03 13:22	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る22'10 25°る22'10 25°る29'58 28°る23'17 0°≈ 15°≈ 17°≈21'25 15°8≈ 12°≈26'26 12°≈19'43 7°≈31'00	4.24329 AU 6.16974 AU -0°09'22 0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21 2655 Jun 27 15:49 2655 Aug 05 11:40	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0° \(\Omega\$ 15° \(\Omega\$ 00'09 15° \(\Omega\$ 00'09 15° \(\Omega\$ 00'41 4° \(\Omega\$ 57'45 15° \(\Omega\$ 0	0°07'15 6.20076 AU 0°36'23
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist.	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 04 07:49 2649 Aug 05 04:33 2649 Oct 03 13:22 2649 Dec 14 12:19	4°♂01'31 6°♂05'04 22°♂29'17 25°♂01'58 25°♂26'04 25°♂22'10 25°♂22'10 25°♂29'58 28°♂23'17 0°≈ 15°≈ 17°≈21'25 15°R≈ 12°≈26'26 12°≈19'43 7°≈31'00 15°≈	4.24329 AU 6.16974 AU -0°09'22 0°09'22	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21 2655 Jun 27 15:49	1°543'13 7°532'22 20°529'28 23°535'31 23°535'31 23°531'13 23°539'49 24°500'35 26°541'13 0° \(\Omega\$ 15° \(\Omega\$ 00'35 15° \(\Omega\$ 00'41 4° \(\Omega\$ 57'45 15° \(\Omega\$ 23° \(\Omega\$ 05'58	0°07'15 6.20076 AU 0°36'23 4.27304 AU
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 05 04:33 2649 Oct 03 13:22 2649 Dec 14 12:19 2650 Feb 05 21:53	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る22'10 25°る29'58 28°る23'17 0°≈ 15°≈ 17°≈21'25 15°R≈ 12°≈26'26 12°≈19'43 7°≈31'00 15°≈ 26°≈38'59	4.24329 AU 6.16974 AU -0°09'22 0°09'22 -0°40'41 4.09684 AU	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21 2655 Jun 27 15:49 2655 Aug 05 11:40 2655 Aug 19 00:23 2655 Aug 19 00:21	1°\$43'13 7°\$32'22 20°\$29'28 23°\$35'31 23°\$35'31 23°\$31'13 23°\$39'49 24°\$00'35 26°\$41'13 0°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 25°\$\Omega\$ 23°\$\Omega\$ 23°\$\Omega\$ 26°\$\Omega\$ 26°\$\Omega\$ 04'02 26°\$\Omega\$ 04'02	0°07'15 6.20076 AU 0°36'23 4.27304 AU 0°40'12 0°40'11
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 04 07:49 2649 Aug 05 04:33 2649 Oct 03 13:22 2649 Dec 14 12:19 2650 Feb 05 21:53	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る22'10 25°る29'58 28°る23'17 0°≈ 15°≈ 17°≈21'25 15°R≈ 12°≈26'26 12°≈19'43 7°≈31'00 15°≈ 26°≈38'59	4.24329 AU 6.16974 AU -0°09'22 0°09'22 -0°40'41 4.09684 AU -0°43'08	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21 2655 Aug 05 11:40 2655 Aug 19 00:23 2655 Aug 19 00:21 2655 Aug 19 21:08	1°\$43'13 7°\$32'22 20°\$29'28 23°\$35'31 23°\$35'31 23°\$35'31 23°\$39'49 24°\$00'35 26°\$41'13 0°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 9°\$\Omega\$59'25 10°\$\Omega\$06'41 4°\$\Omega\$57'45 15°\$\Omega\$ 23°\$\Omega\$05'58 26°\$\Omega\$04'02 26°\$\Omega\$04'00 26°\$\Omega\$15'26	0°07'15 6.20076 AU 0°36'23 4.27304 AU
desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set	2648 Aug 30 16:19 2648 Oct 06 15:27 2649 Jan 03 02:11 2649 Jan 14 01:40 2649 Jan 15 19:08 2649 Jan 15 19:08 2649 Jan 15 12:24 2649 Jan 16 01:53 2649 Jan 28 12:27 2649 Feb 04 12:31 2649 Apr 26 06:47 2649 Jun 04 16:30 2649 Jul 14 11:26 2649 Aug 05 04:33 2649 Oct 03 13:22 2649 Dec 14 12:19 2650 Feb 05 21:53	4°る01'31 6°る05'04 22°る29'17 25°る01'58 25°る26'04 25°る22'10 25°る29'58 28°る23'17 0°≈ 15°≈ 17°≈21'25 15°R≈ 12°≈26'26 12°≈19'43 7°≈31'00 15°≈ 26°≈38'59	4.24329 AU 6.16974 AU -0°09'22 0°09'22 -0°40'41 4.09684 AU	asc. node evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2654 Apr 29 09:54 2654 Jul 02 01:35 2654 Jul 15 18:58 2654 Jul 15 18:58 2654 Jul 15 11:20 2654 Jul 16 02:36 2654 Jul 17 15:18 2654 Jul 29 12:24 2654 Aug 13 11:38 2654 Nov 28 08:50 2654 Dec 01 18:26 2654 Dec 05 03:50 2655 Jan 30 13:20 2655 Jan 29 15:42 2655 Mar 31 17:21 2655 Jun 27 15:49 2655 Aug 05 11:40 2655 Aug 19 00:23 2655 Aug 19 00:21	1°\$43'13 7°\$32'22 20°\$29'28 23°\$35'31 23°\$35'31 23°\$31'13 23°\$39'49 24°\$00'35 26°\$41'13 0°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 15°\$\Omega\$ 25°\$\Omega\$ 23°\$\Omega\$ 23°\$\Omega\$ 26°\$\Omega\$ 26°\$\Omega\$ 04'02 26°\$\Omega\$ 04'02	0°07'15 6.20076 AU 0°36'23 4.27304 AU 0°40'12 0°40'11

retrograde	2656 Jan 01 17:19	16° m 23'25			2661 Nov 18 21:46	15° ≈	
opposition	2656 Mar 01 19:31	11° m) 25'27	1°15'40		2662 Feb 04 07:11	0° ∀	
min. Earth dist.	2656 Mar 01 15:02	11° My 26'56	4.39468 AU	evening set	2662 Feb 10 14:05	1° ¥ 29′26	
direct	2656 May 02 06:13	6° m 22'49		evening sec	2002100 10 100	1 /(2) 20	
evening set	2656 Sep 06 00:12	24° Mp 03'06		conjunction	2662 Feb 23 11:20	4° ₩ 34'31	-0°46'47
<i>8</i>	r	4		minimum elong	2662 Feb 23 11:18	4°) €34'30	0°46'47
conjunction	2656 Sep 19 05:31	26° m 54'20	1°00'13	max. Earth dist.	2662 Feb 22 22:01	4°) €26'32	6.01874 AU
minimum elong	2656 Sep 19 05:30	26° m 54'19	1°00'13	morning rise	2662 Mar 08 10:34	7°) 40′52	
max. Earth dist.	2656 Sep 18 20:38	26° m 49'32	6.43479 AU	retrograde	2662 Jul 17 09:33	27°) 53′04	
morning rise	2656 Oct 02 08:21	29° m 44'13		opposition	2662 Sep 15 13:14	22°) 54′05	-1°26'54
C	2656 Oct 03 13:45	0° ق		min. Earth dist.	2662 Sep 15 09:44	22° ℋ 55'15	3.97171 AU
retrograde	2657 Jan 30 19:31	16° ≏ 33'20		direct	2662 Nov 13 05:05	18° ₩ 00'21	
opposition	2657 Apr 01 05:49	11° ≏ 38'40	1°32'38		2663 Feb 13 14:52	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	2657 Apr 01 20:12	11° ≏ 34'01	4.45809 AU	evening set	2663 Mar 18 18:35	7° Ƴ 42'45	
direct	2657 Jun 02 15:53	6° £ 36'04		C			
evening set	2657 Oct 07 02:49	24° £ 03'52		conjunction	2663 Mar 31 22:45	10° Ƴ 54'18	-1°02'56
max. Earth dist.	2657 Oct 18 17:35	26° ≙ 34'05	6.46144 AU	minimum elong	2663 Mar 31 22:45	10° Ƴ 54'18	1°02'56
				max. Earth dist.	2663 Apr 01 19:14	11° Ƴ 06'45	5.94527 AU
conjunction	2657 Oct 20 01:33	26° ≙ 51'23	1°03'24	morning rise	2663 Apr 14 05:55	14° Ƴ 07'31	
minimum elong	2657 Oct 20 01:33	26° ♀ 51'23	1°03'23		2663 Jun 28 19:32	$6^{\circ}B$	
morning rise	2657 Nov 01 21:21	29° ≙ 37'36		retrograde	2663 Aug 24 18:22	4° 8 52'04	
	2657 Nov 03 15:05	0° M ₊			2663 Oct 22 04:27	30° ₹Ƴ	
	2658 Jan 31 04:43	15° M ₊		opposition	2663 Oct 23 12:12	29° Ƴ 49'16	-1°33'00
retrograde	2658 Mar 01 23:51	16°ML21'30		min. Earth dist.	2663 Oct 22 12:05	29° Ƴ 57'25	3.94386 AU
	2658 Mar 31 21:22	15°RM₊		direct	2663 Dec 20 09:47	24° Ƴ 54'54	
opposition	2658 May 01 18:48	11° M .28'58	1°24'59		2664 Feb 15 02:47	$6^{\circ}B$	
min. Earth dist.	2658 May 02 23:18	11° M .19'51	4.44725 AU	evening set	2664 Apr 24 07:50	14° 8 41'01	
direct	2658 Jul 03 12:47	6°M27'22			2664 Apr 25 15:36	15° ∀	
	2658 Sep 23 11:22	15° M ₊					
evening set	2658 Nov 06 14:43	24°ML00'04		conjunction	2664 May 07 20:13	17° 8 55'28	-0°54'22
max. Earth dist.	2658 Nov 17 08:59	26°ML21'22	6.41313 AU	minimum elong	2664 May 07 20:15	17° 8 55'29	0°54'22
				max. Earth dist.	2664 May 09 21:18	18° 8 24'55	5.96518 AU
conjunction	2658 Nov 19 08:43	26°M47'36	0°49'33	morning rise	2664 May 21 11:20	21° 8 11'15	
minimum elong	2658 Nov 19 08:45	26°ML47'37	0°49'33		2664 Jun 29 05:37	$\Pi^{\circ}0$	
morning rise	2658 Dec 02 00:38	29°M34'15		retrograde	2664 Sep 29 23:05	11° Ⅱ 34'56	
	2658 Dec 03 23:52	0°⊀		min. Earth dist.	2664 Nov 27 00:22	6° Ⅱ 41'58	4.00977 AU
retrograde	2659 Apr 02 10:32	16° ∡ 741'45		opposition	2664 Nov 28 11:23	6° Ⅲ 30′02	-1°01'52
opposition	2659 Jun 02 08:21	11° ∡ ¹49'51	0°54'14	direct	2665 Jan 25 12:19	1° Ⅱ 33'12	
min. Earth dist.	2659 Jun 03 21:37	11° ∡ ³37′59	4.36393 AU	evening set	2665 May 31 20:27	20° Ⅱ 54'50	
direct	2659 Aug 03 20:06	6° ₰ 49'57					
evening set	2659 Dec 07 10:29	24° ∡ ⁴44'59		conjunction	2665 Jun 14 14:00	24° Ⅱ 06'49	-0°24'54
max. Earth dist.	2659 Dec 17 23:31	27° ₹ 07'16	6.30081 AU	minimum elong	2665 Jun 14 14:02	24° Ⅱ 06′50	0°24'53
				max. Earth dist.	2665 Jun 16 21:46	24° Ⅱ 39′20	6.07021 AU
conjunction	2659 Dec 20 02:44	27° ∡ ³36′10	0°21'32	morning rise	2665 Jun 28 09:15	27° Ⅱ 19'20	
minimum elong	2659 Dec 20 02:45	27° ∡ ³36′11	0°21'31		2665 Jul 10 01:55	0 \circ \odot	
	2659 Dec 30 17:44	0°ರ		retrograde	2665 Nov 03 18:25	16° 5 341'43	
morning rise	2660 Jan 01 17:56	0° る 27'05		min. Earth dist.	2665 Dec 31 23:42	11° © 48'39	4.14153 AU
retrograde	2660 May 04 18:56	18° පි 24'51		opposition	2666 Jan 02 08:43	11° © 37'26	-0°09'14
opposition	2660 Jul 04 16:22	13° ⋜ 31'56	0°06'02	direct	2666 Mar 02 08:34	6° 5 37'36	
min. Earth dist.	2660 Jul 06 01:48	13° ට 21'14	4.22884 AU	asc. node	2666 Mar 09 12:45	6°9542'46	
desc. node	2660 Aug 18 12:35	9° ට 00'17		evening set	2666 Jul 07 00:39	25° © 19'55	
direct	2660 Sep 04 03:36	8° ප 34'20					
evening set	2661 Jan 07 12:36	27° る 05'44		conjunction	2666 Jul 20 17:50	28° © 25'06	0°12'21
max. Earth dist.	2661 Jan 18 15:26	29° ප් 40'51	6.15415 AU	minimum elong	2666 Jul 20 17:49	28° © 25'06	0°12'22
				behind sun begin	2666 Jul 20 12:29	28°\$22'06	
conjunction	2661 Jan 20 05:53	0° ≈ 03'17	-0°14'15	behind sun end	2666 Jul 20 23:10	28° © 28'05	
minimum elong	2661 Jan 20 05:52	0° ≈ 03'16	0°14'14	max. Earth dist.	2666 Jul 22 12:53	28°5649'22	6.21749 AU
behind sun begin	2661 Jan 20 01:51	0° ≈ 00'57			2666 Jul 27 18:20	$0^{\circ}\Omega$	
behind sun end	2661 Jan 20 09:52	0° ≈ 05'36		morning rise	2666 Aug 03 10:30	1° Ω 29'45	
	2661 Jan 20 00:14	0° ≈			2666 Oct 10 22:00	15° Ω	
morning rise	2661 Feb 01 23:27	3° ≈ 01'18		retrograde	2666 Dec 06 06:35	19° Ω 41'32	
	2661 Mar 30 08:58	15° ≈			2667 Feb 01 14:28	15°R Ω	
retrograde	2661 Jun 09 15:29	22° ≈ 07'35		min. Earth dist.	2667 Feb 03 05:45	14° Ω 46'51	4.28996 AU
opposition	2661 Aug 09 04:55	17° ≈ 12'15	-0°47'28	opposition	2667 Feb 04 01:34	14° Ω 40′13	0°43'03
min. Earth dist.	2661 Aug 10 00:49	17° ≈ 05'47	4.08118 AU	direct	2667 Apr 05 09:56	9° Ω 38'19	
	2661 Aug 26 19:19	15°R≈			2667 Jun 06 03:15	15° Ω	
direct	2661 Oct 08 07:12	12° ≈ 17'05		evening set	2667 Aug 10 04:58	27° Ω 42'15	

Compune Comp		2667 Aug 20 16:59	0° Mp		opposition	2673 Aug 14 08:12	22°≈12'44 -	-0°54'22
minimal manuman mars. Famil dist. 6067 Aug. 24 1613 07 1978 1978 07 48758 contingent controlling 2678 Aug. 24 1971 07 1987 298 controlling controlling 2678 Page 1970 07 1987 298 controlling controlling 2678 Fage 1970 07 1987 298 controlling controlling 2678 Fage 1871 20 97 1987 298 07 1987 298					min. Earth dist.	2673 Aug 15 00:32	22° ≈ 07′26	4.06103 AU
Max. Earth dis.	conjunction	2667 Aug 23 16:37	0°₩39'16	0°43'56	direct	2673 Oct 13 04:19	17° ≈ 17'53	
commingriane 2667 Spr. 06 00.20 298 SPT 1993 or maintamen clased 2674 Reb. 28 11.20 99 H2022 - 975000 corporation 2668 Mar of 00 344 189 378 1993 or maintamen clased 2674 Reb. 28 11.20 99 H2024 - 975019 min. Earth dist. 2668 May of 18.23 1879 579 1993 or maintamen clased 2674 Mar 1 31.13 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 129 1490 or maintamen clased 2674 Mar 1 31.134 2894 1243 39 633 Ar 144 289 1414 289 1414 289 1414 289 1414 289 1414 289 1414 289 1414 289 1414 289 1414 289 1414 <td< td=""><td>minimum elong</td><td>2667 Aug 23 16:35</td><td>0°™39'14</td><td>0°43'55</td><td></td><td>2674 Jan 18 01:03</td><td>0°ℋ</td><td></td></td<>	minimum elong	2667 Aug 23 16:35	0° ™ 39'14	0°43'55		2674 Jan 18 01:03	0° ℋ	
Description 268 Au	max. Earth dist.	2667 Aug 24 09:17	0° Mp 48′23	6.35541 AU	evening set	2674 Feb 15 13:18	6°) 36′14	
opposition (min. Earth dist.) 268 Mar (6 o.014) 15° 85° 371 o.018 1° 19° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10	morning rise	2667 Sep 06 02:26	3° m/ 35'07					
mm. Earth date 2068 May 06 1035 15° 85° 419 4.90° 740° mms. Earth date 2074 Mar 13 113 12° 4979° evening set 268 Shy 10 1129 25° 82° 273° 12 12° 82° 273° 12 renoming size 2674 Jun 12 20.00 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	retrograde	2668 Jan 06 00:02	20° m 51'14		conjunction	2674 Feb 28 11:22	9°) 42′25 -	-0°50'20
Servening set 2668 Sept 10 14 14 14 14 15 15 15 15	opposition	2668 Mar 06 03:44	15° m 53'36	1°19'30	minimum elong	2674 Feb 28 11:20	9°){ 42′24	0°50'19
Post No.	min. Earth dist.	2668 Mar 06 01:35	15° m 54'19	4.40767 AU		2674 Feb 28 02:43	9° 升 37'12	6.00202 AU
Conjunction Color Seep 17 14-41 Color Seep 15 15-51 Color Seep 15 15-52 Color	direct	2668 May 06 18:23	10° m 50'48		morning rise	2674 Mar 13 11:34	12°) 49'57	
Conjunction	evening set	2668 Sep 10 11:29	28° m 27'57		-	2674 Jun 07 06:39	$0^{\circ}\mathbf{\Upsilon}$	
Paginguistion 2668 Serg 23 15.55 19-18/25 19-19/25 min. Earth dist. 2674 Serg 20 15.23 28-74 May 18 10-14 29-74 May 18		2668 Sep 17 14:41	0∘ ত		retrograde	2674 Jul 22 20:25	3° Y 10'14	
minimum slong		•				2674 Sep 06 20:20	30° ₹ ₩	
minimum slong	conjunction	2668 Sep 23 15:55	1° ≏ 18'25	1°01'42	opposition	2674 Sep 20 21:29	28°) 10'43 ⋅	-1°30'05
anx. Earth dist. 266 No Feb 0 Ho J.29 41-90 Cay evening set 2675 Mar 23 Ho J.00 9°P retorgade 266 Peb of 0 Ho J.12 20°24,5333 evening set 2675 Mar 24 O.35 13°PO/240 imin. Earth dist. 2669 Apr 0 6 O.44 15°A.5912 13°A.5902 44267 AU conjunction 2675 Apr 0 6 06.03 16°PT1502 19°0316 cevening set 2660 Oct 1 10 1012 15°A.2903 44267 AU max. Earth dist. 2675 Apr 10 1425 19°71901 59045 AU conjunction 2660 Oct 1 10 1012 10°L.900 64071 AU max. Earth dist. 2675 Apr 10 1425 19°PT2901 59045 AU conjunction 2660 Oct 24 08.06 1°RIL034 1°0225 opposition 2675 Apr 10 1425 19°PT2901 59°1122 1-13°07 19°111 59°1122 1-13°07 19°111 59°1122 1-13°07 19°111 59°1122 1-13°07 19°111 59°111 59°111 59°111 59°111 59°111 59°111 59°111 59°111 59°111 59°111 59°111	minimum elong	•	1° £ 18'25	1°01'42	min. Earth dist.	2674 Sep 20 15:23		
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ctropaged opposition opposition opposition of 2669 Apr 05 1239 15°A97400 44267 AU conjunction 2675 Apr 06 0643 16°P(1502 1°0316) min. Earth dist. 2669 Apr 06 0445 15°A97400 44267 AU conjunction 2675 Apr 06 0643 16°P(1502 1°0316) cevening set 2669 Oct 18 10:121 10°A95390 max. Earth dist. 2675 Apr 07 08:23 16°P(1502 1°0316) 549054 AV max. Earth dist. 2669 Oct 18 20:140 0°IIL max. Earth dist. 2675 Apr 19 1422 19°P(2902) conjunction 2669 Oct 24 08:06 1°IL/1034 1°0225 opposition 2675 Apr 19 1422 19°P(2902) conjunction 2669 Oct 24 08:06 1°IL/1034 1°0225 opposition 2675 Apr 28 00:04 8°81125 -1°1309 morning rise 2669 Oct 24 08:06 1°IL/1034 1°0225 min. Earth dist. 2676 Apr 29 16:28 8°1125 -1°1309 retrograde 2670 May 07 10:28 1°IL/1034 1°0225 min. Earth dist. 2676 Apr 29 16:28 28°1125 -1°1309 retrograde 2670 May 07 10:28 1°IL/1034 conjunction 2676 Apr 29 16:24 <t< td=""><td>morning rise</td><td>•</td><td>4°£07'29</td><td></td><td></td><td>2675 Jan 23 16:00</td><td>$_{0}$$^{\circ}$$\gamma$</td><td></td></t<>	morning rise	•	4° £ 07'29			2675 Jan 23 16:00	$_{0}$ $^{\circ}$ γ	
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Max. Earth dist. 2671 Dec 15 00:39 10° \overline{8} 1° \overline{8} 40' \overline{17} 6.28178 AU min. Earth dist. 2678 Jan 05 19:11 16° \overline{9} 416522 AU 2678 Jan 05 19:11 16° \overline{9} 416522 AU 2678 Jan 07 02:27 16° \overline{9} 416522 AU 2678 Jan 17 05:50 15° \overline{9} 15° \overline{9} 00° \overline{1} 15° \overline{9}		-						
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minimum elong 2673 Jan 24 21:30 $4^{\circ} \approx 52'34$ 0°19'18 2679 Mar 18 21:59 $15^{\circ} R \Omega$ morning rise 2673 Feb 06 15:47 $7^{\circ} \approx 51'49$ direct 2679 Apr 10 00:13 $14^{\circ} \Omega 13'25$ 2679 Mar 10 08:36 $15^{\circ} \approx$ 2679 May 02 10:24 $15^{\circ} \Omega$								
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2673 Mar 10 08:36 15°≈ 2679 May 02 10:24 15° €				0°19'18				
· · · · · · · · · · · · · · · · · · ·	morning rise				direct	*		
retrograde 2673 Jun 14 18:58 27°≈08'31 2679 Aug 04 14:20 0° Mp	_					-		
	retrograde	26/3 Jun 14 18:58	27° ≈ 08'31			26/9 Aug 04 14:20	O, W	

avanina aat	2670 Aug 14 10:06	20 mm 1 11/4 1		matria ama da	2685 Jun 20 04:08	20 W 17152	
evening set	2679 Aug 14 19:06	2°Mp11'41		retrograde	2685 Jun 20 04:08 2685 Jul 29 04:40	2°) 17'52 30°R≈	
conjunction	2679 Aug 28 05:46	5° mp 07'30	0°47'18	opposition	2685 Aug 19 14:37	27°≈21'35	-1°00'58
minimum elong	2679 Aug 28 05:44	5° Mp 07'29	0°47'18	min. Earth dist.	2685 Aug 20 04:08	27°≈17'10	4.04021 AU
max. Earth dist.	2679 Aug 28 18:24	5° m) 14'24	6.37431 AU	direct	2685 Oct 18 06:29	22° ≈ 26'58	
morning rise	2679 Sep 10 14:19	8° m, 02'05			2685 Dec 28 21:13	0°) €	
retrograde	2680 Jan 10 04:31	25° m 11'35		evening set	2686 Feb 20 15:31	11°) 51'13	
opposition	2680 Mar 10 09:20	20° Mp 14'29	1°22'44				
min. Earth dist.	2680 Mar 10 10:25	20° m 14'08	4.42182 AU	conjunction	2686 Mar 05 14:37	14°) 58′33	-0°53'31
direct	2680 May 11 04:23	15° Mp 11'41		minimum elong	2686 Mar 05 14:35	14°) € 58'32	0°53'31
	2680 Sep 01 18:31	0∘ ⊽		max. Earth dist.	2686 Mar 05 11:54	14° ¥ 56′55	5.98660 AU
evening set	2680 Sep 14 19:32	2° ≏ 45'41		morning rise	2686 Mar 18 15:53	18° ∺ 07'15	
					2686 May 11 03:27	0 ° Υ	
conjunction	2680 Sep 27 22:52	5° ≙ 35'25	1°02'48	retrograde	2686 Jul 28 08:40	8° Y 34'23	
minimum elong	2680 Sep 27 22:51	5° ≏ 35'24	1°02'47	opposition	2686 Sep 26 08:11	3° Ƴ 34'16	
max. Earth dist.	2680 Sep 27 06:32	5° ≏ 26'36	6.45210 AU	min. Earth dist.	2686 Sep 25 22:14		3.95240 AU
morning rise	2680 Oct 10 23:31	8° ≏ 23'47			2686 Oct 26 12:00	30° ₹	
retrograde	2681 Feb 08 03:46	25° ≏ 07'44		direct	2686 Nov 23 16:34	28°) 40′39	
opposition	2681 Apr 09 17:05	20° ≙ 13'42	1°32'52		2686 Dec 21 18:03	0° Υ	
min. Earth dist.	2681 Apr 10 12:09	20° Ω 07'33	4.46451 AU	evening set	2687 Mar 29 08:55	18° Ƴ 27'43	
direct	2681 Jun 11 06:54	15° Ω 11'12					
	2681 Oct 03 05:59	0°M		conjunction	2687 Apr 11 15:20	21° Υ 40'34	
evening set	2681 Oct 15 15:20	2°M38'02	C 45004 ATT	minimum elong	2687 Apr 11 15:20	21° Υ 40'34	
max. Earth dist.	2681 Oct 26 22:47	5°M04'41	6.45604 AU	max. Earth dist.	2687 Apr 12 21:23	21° Y 58'47	5.94047 AU
. ,.	2601 0 4 20 12 22	50 m 25100	1001107	morning rise	2687 Apr 25 01:01	24° Y 55'06	
conjunction	2681 Oct 28 12:32	5°M25'09	1°01'07		2687 May 16 13:53	0° と 15° と	
minimum elong	2681 Oct 28 12:33	5°M25'10 8°M11'03	1°01'07	ratra arada	2687 Aug 15 14:08	15° 8 38'59	
morning rise	2681 Nov 10 06:55 2681 Dec 13 04:02	15°M		retrograde	2687 Sep 04 11:50 2687 Sep 24 08:05	15°R B	
ratragrada	2681 Dec 13 04.02 2682 Mar 10 14:24	24°M58'31		min. Earth dist.	2687 Nov 01 22:41	10° 8 45'23	3.95463 AU
retrograde opposition	2682 May 10 10:26	20°M06'17	1°18'30	opposition	2687 Nov 03 04:19	10° 6 35'20	
min. Earth dist.	2682 May 11 18:48	19°M55'57	4.43022 AU	direct	2687 Dec 31 00:13	5° 8 40'26	-1 2/20
direct	2682 Jul 12 04:31	15°M05'02	4.43022 AU	uncet	2688 Mar 19 19:27	15° B	
ancet	2682 Nov 02 14:52	0° ₹		evening set	2688 May 05 01:15	25° 8 21'21	
evening set	2682 Nov 15 03:13	2° х 42'37		evening set	2000 May 05 01.15	23 02121	
max. Earth dist.	2682 Nov 25 17:14	5° ₹ 02'35	6.38545 AU	conjunction	2688 May 18 15:30	28° 8 35'30	-0°47'36
				minimum elong	2688 May 18 15:32	28° 8 35'31	0°47'36
conjunction	2682 Nov 27 20:28	5° ∡ ³30'55	0°42'55	max. Earth dist.	2688 May 20 21:20	29° 8 07'35	5.99023 AU
minimum elong	2682 Nov 27 20:30	5° ∡ ³30'56	0°42'54		2688 May 24 13:21	0°Щ	
morning rise	2682 Dec 10 11:59	8° ∡ 18'31		morning rise	2688 Jun 01 08:13	1° Ⅱ 50'47	
retrograde	2683 Apr 11 13:06	25° ∡ ³38'17		retrograde	2688 Oct 10 01:36	21° ∏ 58'40	
opposition	2683 Jun 11 10:47	20° ∡ ¹46′13	0°42'06	min. Earth dist.	2688 Dec 07 02:31	17° Ⅱ 05'46	4.04596 AU
min. Earth dist.	2683 Jun 13 00:44	20° х 34′07	4.32704 AU	opposition	2688 Dec 08 14:13	16° Ⅱ 53'36	-0°48'06
direct	2683 Aug 12 17:02	15° ∡ 746'50		direct	2689 Feb 04 21:00	11° Ⅱ 55'54	
	2683 Nov 28 19:56	0°ප			2689 Jun 06 11:27	0 \circ \odot	
evening set	2683 Dec 16 06:10	3° る 52'07		evening set	2689 Jun 11 05:53	1° © 05'31	
max. Earth dist.	2683 Dec 26 21:08	6° ප 16'54	6.25765 AU				
		_		conjunction	2689 Jun 24 23:53	4° © 15'40	
conjunction	2683 Dec 28 22:34	6° る 45'04	0°11'54	minimum elong	2689 Jun 24 23:54	4° © 15'40	0°14'31
minimum elong	2683 Dec 28 22:35	6° る 45'05	0°11'55	behind sun begin	2689 Jun 24 20:31	4°513'44	
behind sun begin	2683 Dec 28 16:59	6° る 41'55		behind sun end	2689 Jun 25 03:17	4°917'37	6 11 100 1 XX
behind sun end	2683 Dec 29 04:11	6° る 48'15		max. Earth dist.	2689 Jun 27 06:58	4°5947'26	6.11428 AU
morning rise	2684 Jan 10 14:10	9° る 37'56		morning rise	2689 Jul 08 18:52	7°526'00	
desc. node	2684 May 08 00:15	27° る 50'55		retrograde	2689 Nov 13 02:10	26°526'19	
retrograde opposition	2684 May 14 14:37 2684 Jul 14 10:18	27°る55'03 23°る01'37	0000111	asc. node min. Earth dist.	2689 Nov 26 15:52 2690 Jan 10 11:57	26°507'59 21°533'02	4.18876 AU
• •		23 3 01 37 22° る 51'44					0°06'21
min. Earth dist. direct	2684 Jul 15 17:08 2684 Sep 13 12:28	18° る 04'44	4.18229 AU	opposition direct	2690 Jan 11 18:30 2690 Mar 12 02:51	21° © 22'41 16° © 22'11	0 0021
ancei	2684 Dec 17 15:07	18 004 44 0°≈		uncci	2690 Jun 24 12:08	0°Ω	
evening set	2685 Jan 16 21:48	0 ∞ 6°≈49'27		evening set	2690 Jul 16 19:36	4° Ω 51'12	
max. Earth dist.	2685 Jan 28 06:40	9°≈29'43	6.10829 AU	ovening set	2070 Jul 10 17.30	7 06J1 1Z	
Zarur diot.	2002 tan 20 00.40	, . 	5.10027110	conjunction	2690 Jul 30 11:26	7° Ω 53'48	0°22'13
conjunction	2685 Jan 29 15:54	9° ≈ 49'18	-0°24'17	minimum elong	2690 Jul 30 11:24	7° Ω 53'47	
minimum elong	2685 Jan 29 15:52	9° ≈ 49'17		max. Earth dist.	2690 Jul 31 23:00	8° Ω 13'39	6.26396 AU
morning rise	2685 Feb 11 10:54	12° ≈ 49'53		morning rise	2690 Aug 13 02:26	10° Ω 55'41	-
Č	2685 Feb 20 18:37	15° ≈		Č	2690 Aug 31 19:54	15° Ω	
	2685 May 12 09:38	0°) €		retrograde	2690 Dec 14 23:18	28° Ω 48'13	

opposition min. Earth dist.	2691 Feb 12 21:10 2691 Feb 12 06:37	23° \Pi 47'55 23° \Pi 52'46	0°55'12 4.33192 AU	evening set max. Earth dist.	2697 Jan 21 16:53 2697 Feb 02 07:09	11°≈48'02 14°≈32'08	6.08887 AU
direct	2691 Apr 14 15:36 2691 Jul 18 12:01	18° Ω 45'39 0° m		conjunction	2697 Feb 03 11:36 2697 Feb 03 11:34	14°≈48'57	
evening set	2691 Aug 19 08:43	6° Т р39'17		minimum elong	2697 Feb 03 11:34 2697 Feb 04 06:16	14°≈48'56 15°≈	0-29 09
conjunction	2691 Sep 01 18:26	9° m 34'04	0°50'26	morning rise	2697 Feb 16 07:13	17°≈50'40	
minimum elong	2691 Sep 01 18:24	9° m/34'03	0°50'27		2697 Apr 13 15:32	0°) €	
max. Earth dist.	2691 Sep 02 02:59	9° m 38'43	6.38962 AU	retrograde	2697 Jun 25 12:13	7°) €28'00	
morning rise	2691 Sep 15 01:49	12° m 27'34		opposition	2697 Aug 24 21:14	2°) 31′17	-1°07'08
retrograde	2692 Jan 14 08:09	29°My31'46		min. Earth dist.	2697 Aug 25 07:07	2°) €28'03	4.02527 AU
opposition	2692 Mar 14 15:08	24° m 35'09	1°25'37		2697 Sep 14 03:08	30° R ≈	
min. Earth dist.	2692 Mar 14 18:28	24° m 34'04	4.43218 AU	direct	2697 Oct 23 07:25	27° ≈ 37'01	
direct	2692 May 15 12:48	19° m 32'19			2697 Nov 30 20:42	0° ∀	
	2692 Aug 15 17:09	0∘ ⊽		evening set	2698 Feb 25 17:40	17° ∺ 05'04	
evening set	2692 Sep 19 04:08	7° Ω 04'26					
max. Earth dist.	2692 Oct 01 10:57	9° ≙ 43'02	6.45674 AU	conjunction	2698 Mar 10 17:26	20°) 13′09	
	2602 0 4 02 06 21	00.0.5313.6	1002125	minimum elong	2698 Mar 10 17:25	20°) 13′08	0°56'16
conjunction	2692 Oct 02 06:31	9° £ 53'36	1°03'35	max. Earth dist.	2698 Mar 10 18:47	20°) 13'58 23°) 22'45	5.97740 AU
minimum elong	2692 Oct 02 06:31 2692 Oct 15 06:07	9° £ 53'36 12° £ 41'24	1°03'35	morning rise	2698 Mar 23 19:51	23°π22'45 0°Υ	
morning rise retrograde	2693 Feb 12 09:07	12 ≗ 41 24 29° £ 24'24		retrograde	2698 Apr 21 05:02 2698 Aug 02 16:31	0 γ 13° Υ 54'03	
opposition	2693 Apr 13 23:12	29 = 24 24 24° £ 30'46	1°32'17	opposition	2698 Oct 01 16:22	8°Υ53'22	-1°34'07
min. Earth dist.	2693 Apr 14 20:59	24° £ 23'46	4.46329 AU	min. Earth dist.	2698 Oct 01 10:22 2698 Oct 01 02:32		3.95018 AU
direct	2693 Jun 15 15:11	19° £ 28'27	4.40327710	direct	2698 Nov 28 22:10	3° Υ 59'41	3.73010710
anoct	2693 Sep 16 07:51	0°M		evening set	2699 Apr 03 14:41	23° Y 46'19	
evening set	2693 Oct 19 21:52	6°M56'09		evening sec	2033 11p1 03 1 1	20 (101)	
max. Earth dist.	2693 Oct 31 00:33	9°M20'36	6.44886 AU	conjunction	2699 Apr 16 22:20	26° Ƴ 59'28	-1°02'18
				minimum elong	2699 Apr 16 22:21	26° Ƴ 59'29	1°02'18
conjunction	2693 Nov 01 18:17	9°M43'16	0°59'29	max. Earth dist.	2699 Apr 18 09:52	27° Y 20'59	5.94540 AU
minimum elong	2693 Nov 01 18:19	9°M43'17	0°59'29		2699 Apr 29 09:15	9° 8	
morning rise	2693 Nov 14 12:15	12°M29'16		morning rise	2699 Apr 30 08:54	0° 8 14'12	
	2693 Nov 26 05:50	15°M			2699 Jul 08 10:54	15° 8	
retrograde	2694 Mar 15 00:07	29°M20'12		retrograde	2699 Sep 09 17:43	20° 8 54'29	
opposition	2694 May 14 20:09	24°M28'06	1°14'34	min. Earth dist.	2699 Nov 07 02:10	16° 8 00'48	3.96609 AU
min. Earth dist.	2694 May 16 06:06	24°M17'16	4.41760 AU	opposition	2699 Nov 08 08:30	15° 8 50'30	-1°23'38
direct	2694 Jul 16 13:31	19° M ₊27'04 0° √		direct	2699 Nov 14 13:59	15°R と 10° と 55'16	
evening set	2694 Oct 16 13:27 2694 Nov 19 11:05	0 x ¹ 7° x ¹08'22		direct	2700 Jan 05 05:50 2700 Feb 24 17:03	10 8 33 10	
max. Earth dist.	2694 Nov 30 01:26	9° × ⁷ 29'03	6.36843 AU		2700 May 09 00:21	0°II	
max. Latti dist.	20741101 30 01.20	7 7 2703	0.50045710	evening set	2700 May 11 06:01	0° Д 31'38	
conjunction	2694 Dec 02 04:14	9° ∡ 757'15	0°39'09	evening sec	2,00 may 11 00.01	0 20100	
minimum elong	2694 Dec 02 04:15	9° ₹ 57'16	0°39'09	conjunction	2700 May 24 20:58	3° ∏ 45′20	-0°43'45
morning rise	2694 Dec 14 19:26	12° ₹ '45'28		minimum elong	2700 May 24 21:00	3° Ⅱ 45′22	
-	2695 Apr 04 14:21	ರ°0		max. Earth dist.	2700 May 27 04:07	4° Ⅱ 18′03	6.00688 AU
retrograde	2695 Apr 16 04:34	0° る 12'35		morning rise	2700 Jun 07 14:23	7° Ⅱ 00'06	
	2695 Apr 27 19:35	30°₹ ҂ 7		retrograde	2700 Oct 15 20:30	26° Ⅱ 58'43	
opposition	2695 Jun 16 02:46	25° ≯ 20′30	0°35'28	min. Earth dist.	2700 Dec 12 22:14	22° Ⅱ 06′03	4.06595 AU
min. Earth dist.	2695 Jun 17 15:57	25° х 08′39	4.30674 AU	opposition	2700 Dec 14 10:24	21° Ⅱ 53'44	-0°40'55
direct	2695 Aug 17 05:14	20° ∡ 21'34		direct	2701 Feb 10 19:05	16° ∏ 55'38	
	2695 Nov 10 23:55	0°る			2701 May 21 09:13	0°95	
evening set	2695 Dec 20 18:45	8°る32'34	6 22500 ATT	evening set	2701 Jun 17 05:45	5° © 59'08	
max. Earth dist.	2695 Dec 31 10:44	10° る 58'43	6.23580 AU	:	2701 I 20 22.41	00600117	0000122
conjunction	2696 Jan 02 11:06	11° る 26'26	0°06'52	conjunction minimum elong	2701 Jun 30 23:41 2701 Jun 30 23:42	9° © 08'17 9° © 08'18	0°09'21
minimum elong	2696 Jan 02 11:06	11° 3 26'26	0°06'52	behind sun begin	2701 Jun 30 25:42 2701 Jun 30 16:44	9° 5 0818	0 0921
behind sun begin	2696 Jan 02 03:41	11° ට 2020	0 00 32	behind sun end	2701 Jul 01 06:39	9° © 12'16	
behind sun end	2696 Jan 02 18:32	11° る 30'40		max. Earth dist.	2701 Jul 03 03:24	9° 9 37'59	6.13581 AU
morning rise	2696 Jan 15 03:08	14° る 20'21		morning rise	2701 Jul 14 18:28	12° © 17'32	
desc. node	2696 Mar 17 02:01	27° ප 01'41		asc. node	2701 Oct 08 09:49	28° © 29'40	
	2696 Apr 06 12:11	0° ≈			2701 Oct 23 02:01	$0^{\circ}\Omega$	
retrograde	2696 May 19 16:31	2° ≈ 47'29		retrograde	2701 Nov 18 14:28	1° Ω 07'47	
	2696 Jul 02 11:47	30°R₹			2701 Dec 14 20:59	30° ₹ 5	
opposition	2696 Jul 19 10:29	27° る 53'48	-0°16'56	min. Earth dist.	2702 Jan 16 03:19	26°©13'53	4.20967 AU
min. Earth dist.	2696 Jul 20 15:29	27° る 44'28	4.16055 AU	opposition	2702 Jan 17 06:54	26°504'33	0°13'47
direct	2696 Sep 18 08:38	22° る 57'18		direct	2702 Mar 17 21:06	21° © 03'43	
	2696 Nov 27 14:36	0° ≈			2702 Jun 07 04:59	$0 ^{\circ} \Omega$	

evening set	2702 Jul 22 12:49	9° Ω 27'25		evening set	2707 Dec 26 06:48	13° る 12'27	
evening sec	2702 341 22 12.19	y 00 2723		max. Earth dist.	2708 Jan 06 02:20	15°る41'13	6.21655 AU
conjunction	2702 Aug 05 04:09	12° Ω 28'59	0°26'47				
minimum elong	2702 Aug 05 04:07	12° Ω 28'58	0°26'47	conjunction	2708 Jan 07 23:25	16° ට 07'09	0°01'46
max. Earth dist.	2702 Aug 06 13:00	12° Ω 47'14	6.28272 AU	minimum elong	2708 Jan 07 23:26	16° පි 07'10	0°01'45
	2702 Aug 16 12:23	15° Ω		behind sun begin	2708 Jan 07 15:27	16° පි 02'36	
morning rise	2702 Aug 18 18:11	15° Ω 29'41		behind sun end	2708 Jan 08 07:25	16° ට 11'44	
	2702 Nov 03 21:09	0° ™		morning rise	2708 Jan 20 15:37	19° る 01'59	
retrograde	2702 Dec 20 04:35	3°Mp 14'38		desc. node	2708 Jan 26 15:35	20° පි 24'01	
	2703 Feb 04 17:00	30° R Ω			2708 Mar 12 10:42	0° ≈	
opposition	2703 Feb 18 04:09	28° Ω 14'54	1°00'39	retrograde	2708 May 25 16:38	7° ≈ 38'00	
min. Earth dist.	2703 Feb 17 15:22	28° Ω 19'08	4.34733 AU	opposition	2708 Jul 25 09:51	2° ≈ 43'57	-0°24'34
direct	2703 Apr 20 01:39	23° Ω 12'30		min. Earth dist.	2708 Jul 26 12:46		4.14181 AU
	2703 Jun 30 02:44	0° m			2708 Aug 16 21:11	30°Ŗる	
evening set	2703 Aug 24 20:10	11°Mp02'56		direct	2708 Sep 24 03:12	27° る 47'48	
					2708 Oct 31 20:14	0° ≈	
conjunction	2703 Sep 07 04:49	13°M 56'51	0°53'13		2709 Jan 20 02:28	15° ≈	
minimum elong	2703 Sep 07 04:47	13° m 56'50	0°53'12	evening set	2709 Jan 27 11:12	16° ≈ 43′26	
max. Earth dist.	2703 Sep 07 08:13	13° m 58'43	6.40060 AU	max. Earth dist.	2709 Feb 08 04:18	19° ≈ 29'50	6.07206 AU
morning rise	2703 Sep 20 11:14	16° m 49'31					
	2703 Nov 29 12:44	0∘ ⊽		conjunction	2709 Feb 09 06:15	19° ≈ 45'14	
retrograde	2704 Jan 19 13:31	3° ≏ 49'59		minimum elong	2709 Feb 09 06:13	19° ≈ 45′13	0°33'47
	2704 Mar 11 07:45	30°Ŗ ᠓		morning rise	2709 Feb 22 02:44	22°≈48'01	
opposition	2704 Mar 19 20:21	28° m 53'52	1°27'58	_	2709 Mar 25 16:24	0° ∀	
min. Earth dist.	2704 Mar 20 03:13	28° m 51'38	4.43828 AU	retrograde	2709 Jul 01 17:23	12°) 33′43	
direct	2704 May 20 22:09	23° m 51'03		opposition	2709 Aug 31 01:56	7° ∺ 36′25	
	2704 Jul 27 23:12	0∘ ⊽		min. Earth dist.	2709 Aug 31 08:12	7°) (34′21	4.01195 AU
evening set	2704 Sep 24 11:46	11° ≏ 22'20		direct	2709 Oct 29 07:33	2°) 42′17	
				evening set	2710 Mar 03 18:03	22°) 13′45	
conjunction	2704 Oct 07 13:21	14° Ω 11'08	1°04'01				
minimum elong	2704 Oct 07 13:20	14° Ω 11'08	1°04'01	conjunction	2710 Mar 16 18:56	25° ¥ 22'41	
max. Earth dist.	2704 Oct 06 14:21	13° Ω 58'43	6.45749 AU	minimum elong	2710 Mar 16 18:54	25°) €22'41	0°58'33
morning rise	2704 Oct 20 12:04	16° £ 58'35		max. Earth dist.	2710 Mar 17 02:10	25°) € 27'04	5.96883 AU
. 1	2704 Dec 29 08:13	0°M,		morning rise	2710 Mar 29 22:14	28°) 33′07	
retrograde	2705 Feb 17 13:48	3°M41'47			2710 Apr 04 23:29	0° Υ	
***	2705 Apr 09 20:22	30° ₹ Ω	1021111	retrograde	2710 Aug 09 01:21	19° Υ 08'23	1024150
opposition	2705 Apr 19 05:27	28° Ω 48'24	1°31'11	opposition	2710 Oct 07 22:45	14° ℃ 07'11	
min. Earth dist.	2705 Apr 20 04:30	28° Ω 41'00	4.45903 AU	min. Earth dist.	2710 Oct 07 07:03	14° Υ 12'26 9° Υ 13'25	3.94744 AU
direct	2705 Jun 20 21:32	23° Ω 46'12		direct	2710 Dec 05 02:51	9° γ 13°23 29° γ '00'09	
avanina aat	2705 Aug 28 16:02 2705 Oct 25 04:28	0°ጤ 11°ጤ15'27		evening set	2711 Apr 09 19:18 2711 Apr 13 22:43	0° 8	
evening set	2705 Nov 05 05:54	13°M39'33	6.44000 AU		2/11 Apr 13 22.43	0.0	
max. Earth dist.	2703 NOV 03 03.34	13 1163933	0.44000 AU	conjunction	2711 Apr 23 03:57	2° 8 13'39	1001'05
conjunction	2705 Nov 07 00:21	14°M02'41	0°57'30	minimum elong	2711 Apr 23 03:59	2° 8 13'40	
minimum elong	2705 Nov 07 00:21 2705 Nov 07 00:22	14°M02'42	0°57'29	max. Earth dist.	2711 Apr 23 03:39 2711 Apr 24 18:23	2° 8 36'52	5.94853 AU
minimum ciong	2705 Nov 11 09:30	15°M	0 37 29	morning rise	2711 Apr 24 18:23 2711 May 06 15:46	5° 8 28'46	3.94633 AU
morning rise	2705 Nov 19 17:41	16°M48'49		morning risc	2711 Jun 17 10:58	15° 8	
morning rise	2706 Jan 28 20:23	0° × 7⊓		retrograde	2711 Sep 15 20:09	26° 8 06'07	
retrograde	2706 Mar 20 09:54	3° х 43′32		min. Earth dist.	2711 Nov 13 02:37		3.97492 AU
retrograde	2706 May 11 05:29	30°RML		opposition	2711 Nov 14 11:09	21° 8 01'51	
opposition	2706 May 20 06:34	28°M51'32	1°10'11	direct	2712 Jan 11 07:40	16° 8 06'17	1 1/11
min. Earth dist.	2706 May 21 17:29	28°M40'24	4.40466 AU		2712 Apr 21 20:43	0°II	
direct	2706 Jul 21 23:10	23°M50'47		evening set	2712 May 16 10:41	5° Ⅱ 39'33	
	2706 Sep 27 16:00	0° ⊼ 7					
evening set	2706 Nov 24 19:11	11° ∡ ³35'25		conjunction	2712 May 30 02:21	8° I I52'58	-0°39'35
max. Earth dist.	2706 Dec 05 07:53	13° ∡ 55'47	6.35232 AU	minimum elong	2712 May 30 02:23	8° Ⅱ 52'59	
				max. Earth dist.	2712 Jun 01 09:11	9° Ⅱ 25'23	6.02045 AU
conjunction	2706 Dec 07 11:57	14° ∡ °24'49	0°35'09	morning rise	2712 Jun 12 20:21	12° Ⅱ 07'20	-
minimum elong	2706 Dec 07 11:59	14° ∡ ′24'50	0°35'09	<i>5</i>	2712 Sep 15 12:46	0°9	
morning rise	2706 Dec 20 03:16	17° ∡ 13'40		retrograde	2712 Oct 20 16:50	1° 9 58'04	
5	2707 Feb 23 02:01	0°ಕ		S	2712 Nov 24 14:52	30°R Ⅱ	
retrograde	2707 Apr 21 21:33	4° る 47'47		min. Earth dist.	2712 Dec 17 19:41	27° I 105'03	4.08252 AU
opposition	2707 Jun 21 19:26	29° ₹ 55'29	0°28'35	opposition	2712 Dec 19 06:32	26° I 53'10	
11	2707 Jun 21 05:16	30°R. ₹		direct	2713 Feb 15 19:17	21° I I54'38	-
min. Earth dist.	2707 Jun 23 07:48	29° ∡ ¹43'52	4.28829 AU		2713 May 01 23:59	0°95	
direct	2707 Aug 22 18:55	24° ∡ ¹56'47		evening set	2713 Jun 22 06:20	10° © 53'29	
	2707 Oct 21 13:19	5°0		Č			

conjunction	2713 Jul 06 00:26	14° © 01'53	-0°04'07		2718 Aug 30 04:36	0° ∡ 7
minimum elong	2713 Jul 06 00:26	14°901'53	0°04'07	evening set	2718 Nov 29 01:59	16° ∡ 00′13
behind sun begin	2713 Jul 05 16:11	13° © 57'11		max. Earth dist.	2718 Dec 09 16:02	18° ₹ 21'40 6.34200 AU
behind sun end	2713 Jul 06 08:41	14°906'34				
max. Earth dist.	2713 Jul 08 03:37	14° © 31'08	6.15405 AU	conjunction	2718 Dec 11 18:32	18° √ 49'54 0°31'04
morning rise	2713 Jul 19 18:48	17° © 10'08		minimum elong	2718 Dec 11 18:34	18° ∡ ¹49'55 0°31'04
asc. node	2713 Aug 18 06:51	23° © 38'34		morning rise	2718 Dec 24 09:32	21° ₹ '39'05
	2713 Sep 20 16:39	$0^{\circ}\Omega$			2719 Feb 01 22:02	0°ರ
retrograde	2713 Nov 23 03:43	5° £ 51′33		retrograde	2719 Apr 26 11:49	9° ප 18'19
opposition	2714 Jan 21 20:30	0° Ω 48'49	0°21'12	opposition	2719 Jun 26 09:48	4°る25'54 0°21'45
min. Earth dist.	2714 Jan 20 18:04	0° Ω 57'43	4.22785 AU	min. Earth dist.	2719 Jun 27 22:12	4°る14'17 4.27545 AU
	2714 Jan 27 21:58	30° ₹ 5			2719 Aug 08 11:48	30°R. ✓
direct	2714 Mar 22 14:05	25° © 47'45		direct	2719 Aug 27 07:01	29° ∡ ¹27'32
	2714 May 15 02:01	0 $^{\circ}$ Ω			2719 Sep 15 01:04	0°පි
evening set	2714 Jul 27 07:45	14° Ω 07'08		desc. node	2719 Dec 08 11:39	12° る 48'42
	2714 Jul 31 07:36	15° Ω		evening set	2719 Dec 30 16:15	17° る 46'09
				max. Earth dist.	2720 Jan 10 11:49	20°る15'28 6.20214 AU
conjunction	2714 Aug 09 22:11	17° Ω 07'40	0°31'17			_
minimum elong	2714 Aug 09 22:09	17° Ω 07'39	0°31'17	conjunction	2720 Jan 12 08:50	20°පි41'27 -0°03'16
max. Earth dist.	2714 Aug 11 02:07	17° Ω 23'08	6.29942 AU	minimum elong	2720 Jan 12 08:49	20°る41'27 0°03'16
morning rise	2714 Aug 23 11:28	20° Ω 07'18		behind sun begin	2720 Jan 12 00:52	20° る 36'53
	2714 Oct 10 16:08	0° m		behind sun end	2720 Jan 12 16:46	20°정46'00
retrograde	2714 Dec 24 13:40	7° Mp 45'31	1005151	morning rise	2720 Jan 25 01:27	23° පි 37'01
opposition	2715 Feb 22 13:19	2° Mp 46'20	1°05'51	. 1	2720 Feb 22 17:14	0°≈
min. Earth dist.	2715 Feb 22 03:38	2° m/49'33	4.36156 AU	retrograde	2720 May 30 12:13	12°≈20'27
I'	2715 Mar 16 18:49	30°R€		opposition	2720 Jul 30 05:22	7°≈25'59 -0°31'44
direct	2715 Apr 24 15:42	27° Ω 43'52		min. Earth dist.	2720 Jul 31 06:02	7°≈18'01 4.12673 AU
	2715 Jun 02 22:17	0°Mp		direct	2720 Sep 28 18:04	2°≈30'04 15°≈
evening set	2715 Aug 29 09:31	15° Mp 31'23			2721 Jan 03 16:04	
conjunction	2715 Sep 11 17:19	18° m 24'31	0°55'46	evening set	2721 Feb 01 01:22	21° ≈ 29'37
minimum elong	2715 Sep 11 17:19 2715 Sep 11 17:18	18° Mp 24'30	0°55'45	conjunction	2721 Feb 13 21:05	24°≈32'17 -0°38'00
max. Earth dist.	2715 Sep 11 17:18 2715 Sep 11 18:41	18° Mp 25'15	6.41157 AU	minimum elong	2721 Feb 13 21:03	24°≈32'16 0°38'00
morning rise	2715 Sep 24 22:28	21° Mp 16'16	0.41137 AO	max. Earth dist.	2721 Feb 13 21:03 2721 Feb 12 23:22	24°≈19'22 6.05772 AU
morning risc	2715 Sep 24 22:28 2715 Nov 06 21:59	0° Ω		morning rise	2721 Feb 26 18:06	27°≈35'58
retrograde	2716 Jan 23 18:27	0 — 8° ≏ 12'57		morning risc	2721 Mar 08 23:30	0° ∺
opposition	2716 Mar 24 03:22	3° ⊆ 17'21	1°29'55	retrograde	2721 Jul 06 19:31	17° ¥ 29'14
min. Earth dist.	2716 Mar 24 11:18	3° £ 14'46	4.44579 AU	opposition	2721 Sep 05 01:58	12° ₩ 31'28 -1°17'34
min. Eurin Gigt.	2716 Apr 20 19:20	30°R M⊅		min. Earth dist.	2721 Sep 05 06:53	12° ¥ 29'51 3.99970 AU
direct	2716 May 25 06:47	28° m 14'41		direct	2721 Nov 03 04:22	7° ₩ 37'27
	2716 Jun 29 03:37	0∘ <u>⊽</u>		evening set	2722 Mar 08 14:30	27°
evening set	2716 Sep 28 21:03	15° ≏ 44'32		C	2722 Mar 20 03:41	0° Υ
C	•					
conjunction	2716 Oct 11 21:34	18° ჲ 32'49	1°04'08	conjunction	2722 Mar 21 16:14	0° Υ '22'09 -1°00'20
minimum elong	2716 Oct 11 21:34	18° ≏ 32'49	1°04'09	minimum elong	2722 Mar 21 16:13	0° Υ 22'08 1°00'19
max. Earth dist.	2716 Oct 10 19:37	18° ≏ 18'48	6.46122 AU	max. Earth dist.	2722 Mar 22 01:50	0° Υ 27'57 5.95974 AU
morning rise	2716 Oct 24 19:25	21° ≏ 19'46		morning rise	2722 Apr 03 20:47	3° Ƴ 33'31
	2716 Dec 06 16:57	0° M		retrograde	2722 Aug 14 03:38	24° Ƴ 12'52
retrograde	2717 Feb 21 21:22	8°M02'14		min. Earth dist.	2722 Oct 12 05:23	19° Y 17'30 3.94280 AU
opposition	2717 Apr 23 13:16	3°M09'12	1°29'38	opposition	2722 Oct 13 00:04	19° Y 11'13 -1°35'07
min. Earth dist.	2717 Apr 24 14:36	3°M01'04	4.45897 AU	direct	2722 Dec 10 00:43	14° Ƴ 17'17
	2717 May 20 04:57	30° ₹ Ω			2723 Mar 28 14:13	0° 8
direct	2717 Jun 25 07:38	28° ≏ 07'12		evening set	2723 Apr 14 20:33	4° 8 05'25
	2717 Jul 31 13:08	0°M				4.
	2717 Oct 26 15:49	15° ™		conjunction	2723 Apr 28 06:24	7° 8 19'28 -0°59'29
evening set	2717 Oct 29 11:11	15°M36'21		minimum elong	2723 Apr 28 06:25	7° 8 19'29 0°59'28
max. Earth dist.	2717 Nov 09 10:07	17° M 59'18	6.43616 AU	max. Earth dist.	2723 Apr 29 23:00	7° 8 43'59 5.94881 AU
	2717 11 06 26	1007 00100	0055115	morning rise	2723 May 11 19:19	10° 8 35'04
conjunction	2717 Nov 11 06:26	18°M23'29	0°55'15		2723 May 30 13:14	15° 8
minimum elong	2717 Nov 11 06:27	18°M23'29	0°55'15	ratro a J.	2723 Aug 24 21:20	0°П 1°П 10/45
morning rise	2717 Nov 23 23:15	21°M09'34		retrograde	2723 Sep 20 20:33	1°Ⅲ10′45 30°R 겅
retrograda	2718 Jan 06 06:03 2718 Mar 24 18:32	0° ⋪ 8° ⋪06'36		min. Earth dist.	2723 Oct 17 15:18 2723 Nov 18 01:37	26°817'25 3.97998 AU
retrograde opposition	2718 May 24 16:48	3° × ′0636	1°05'30	opposition	2723 Nov 18 01:37 2723 Nov 19 10:28	26° 8 06'14 -1°14'26
min. Earth dist.	2718 May 24 16:48 2718 May 26 03:35	3° × °1437 3° × °03'31	4.39727 AU	direct	2724 Jan 16 08:07	21° 8 10'16
ann. Barui uist.	2718 Jun 21 11:13	30°RM	7.37121 AU	uncei	2724 Apr 03 00:24	0°II
direct	2718 Jul 26 07:47	28°M14'06		evening set	2724 May 21 13:02	10° Ⅱ 42'04
311000	2/10/01 20 0/.4/	20 1101700		Stelling Set	2,21111uy 21 13.02	10 <u>12</u> 12 07

conjunction minimum elong max. Earth dist. morning rise retrograde	2724 Jun 04 05:38 2724 Jun 04 05:40 2724 Jun 06 14:33 2724 Jun 18 00:07 2724 Aug 17 10:42 2724 Oct 25 12:32	13°П55'26 13°П55'27 14°П28'58 17°П09'35 0°© 6°©53'49		retrograde opposition min. Earth dist. direct evening set max. Earth dist.	2730 Mar 29 06:01 2730 May 29 03:45 2730 May 30 16:26 2730 Jul 30 18:14 2730 Dec 03 09:47 2730 Dec 13 22:20	12° ₹29'53 7° ₹37'59 7° ₹26'19 2° ₹37'43 20° ₹27'11 22° ₹48'23	1°00'21 4.38456 AU 6.32524 AU
min. Earth dist.	2724 Dec 22 14:15 2724 Dec 24 01:02 2725 Jan 06 17:24		4.09554 AU -0°26'01	conjunction minimum elong	2730 Dec 16 02:10 2730 Dec 16 02:11	23° 🖈 17'28 23° 🖈 17'29	0°26'41 0°26'41
direct	2725 Feb 20 16:11 2725 Apr 06 15:45	26°∏50'10 0°©		morning rise	2730 Dec 28 17:17 2731 Jan 15 08:36	26° メ 07'22 0° る	0 2041
evening set asc. node	2725 Jun 27 06:17 2725 Jun 28 21:54	15°508'02		retrograde opposition min. Earth dist.	2731 May 01 04:47 2731 Jul 01 02:54 2731 Jul 02 13:51	13° ප් 54'17 9° ප් 01'39 8° ප් 50'29	0°14'32 4.25559 AU
conjunction minimum elong behind sun begin	2725 Jul 11 00:08 2725 Jul 11 00:08 2725 Jul 10 15:45	18°953'13 18°953'13 18°948'28	0°01'10 0°01'10	direct desc. node evening set	2731 Aug 31 19:23 2731 Oct 18 08:39 2732 Jan 04 04:53	4°る03'36 7°る22'51 22°る27'44	
behind sun end max. Earth dist. morning rise	2725 Jul 11 08:31 2725 Jul 13 00:24 2725 Jul 24 18:22	18°\$57'58 19°\$20'41 22°\$00'39	6.16938 AU	max. Earth dist.	2732 Jan 15 03:54 2732 Jan 16 21:47	24°පි59'43 25°පි24'01	6.18089 AU -0°08'21
retrograde min. Earth dist.	2725 Aug 30 18:27 2725 Nov 27 16:02 2726 Jan 25 08:47	0°Ω 10°Ω34'05 5°Ω40'00	4.24402 AU	minimum elong behind sun begin behind sun end	2732 Jan 16 21:47 2732 Jan 16 14:43 2732 Jan 17 04:51	25° ට 24'01 25°ට19'56 25°ට28'05	0°08'21
opposition direct	2726 Jan 26 09:33 2726 Mar 27 07:32 2726 Jul 14 17:04	5° Ω 31'40 0° Ω 30'15 15° Ω	0°28′21	morning rise	2732 Jan 29 14:43 2732 Feb 05 19:55 2732 Apr 27 05:00	28° ට 20'39 0°≈ 15°≈	
evening set	2726 Aug 01 02:19 2726 Aug 14 16:10	18° Ω45'40 21° Ω45'14	0°35'31	retrograde opposition	2732 Jun 04 15:11 2732 Jul 13 07:21 2732 Aug 04 05:58	17°≈14'15 15°R≈ 12°≈19'28	0°20'05
minimum elong max. Earth dist.	2726 Aug 14 16:08 2726 Aug 15 18:34	21° Ω 45'13 21° Ω 59'49	0°35'31 6.31529 AU	min. Earth dist.	2732 Aug 05 05:26 2732 Oct 03 14:28	12°≈11'52 7°≈23'53	4.10568 AU
morning rise	2726 Aug 28 04:17 2726 Sep 21 20:39 2726 Dec 28 21:16	24° \Omega 43'44 0° m 12° m 15'06		evening set	2732 Dec 15 05:35 2733 Feb 05 21:29	15° ≈ 26° ≈ 29'37	
opposition min. Earth dist. direct	2727 Feb 26 22:06 2727 Feb 26 13:53 2727 Apr 29 03:49	7° Mp 16'22 7° Mp 19'05 2° Mp 13'46	1°10'36 4.37577 AU	conjunction minimum elong max. Earth dist.	2733 Feb 18 17:48 2733 Feb 18 17:46 2733 Feb 17 22:36	29°≈33'25 29°≈33'24 29°≈21'56	-0°42'10 0°42'11 6.03874 AU
evening set conjunction	2727 Sep 02 22:16 2727 Sep 16 04:52	19° m 57'53 22° m 50'06	0°57'57	morning rise retrograde	2733 Feb 20 14:17 2733 Mar 03 15:52 2733 Jul 12 02:46	0° 光 2° 光 38'21 22° 光 40'51	
minimum elong max. Earth dist. morning rise	2727 Sep 16 04:50 2727 Sep 16 01:26 2727 Sep 29 09:04	22° m 50'05 22° m 48'14 25° m 40'59	0°57'57 6.42271 AU	opposition min. Earth dist. direct	2733 Sep 10 08:22 2733 Sep 10 09:10 2733 Nov 08 05:14	17°\ 42'36 17°\ 42'20 12°\ 48'46	-1°22'09 3.98495 AU
retrograde	2727 Oct 19 20:15 2728 Jan 28 01:02	0° ჲ 12° ჲ 33'41	1021110	evening set	2734 Mar 03 10:29 2734 Mar 13 18:02	0°Υ 2°Υ28'05	
opposition min. Earth dist. direct	2728 Mar 28 10:14 2728 Mar 28 21:13 2728 May 29 17:19	7° £ 38'25 7° £ 34'51 2° £ 35'41	1°31'19 4.45299 AU	conjunction minimum elong	2734 Mar 26 20:53 2734 Mar 26 20:52	5° Υ 38'47 5° Υ 38'47	1°01'45
evening set max. Earth dist.	2728 Oct 03 05:06 2728 Oct 15 00:55	20° £ 03'53 22° £ 36'37	6.46358 AU	max. Earth dist. morning rise retrograde	2734 Mar 27 11:34 2734 Apr 09 02:35 2734 Aug 19 13:39	5° Υ 47'42 8° Υ 51'07 29° Υ 34'15	5.95065 AU
conjunction minimum elong morning rise	2728 Oct 16 04:53 2728 Oct 16 04:53 2728 Oct 29 01:42 2728 Nov 18 19:29	22° £ 51'43 22° £ 51'43 25° £ 38'14 0° M .	1°03'53 1°03'52	min. Earth dist. opposition direct	2734 Oct 17 11:21 2734 Oct 18 08:15 2734 Dec 15 07:30 2735 Mar 09 20:22	24° Y 39'09 24° Y 32'07 19° Y 38'04 0° B	3.94061 AU -1°34'29
retrograde opposition	2729 Feb 26 02:21 2729 Apr 27 20:28	12°M20'25 7°M27'34		evening set	2735 Apr 20 04:17	9° 8 26'20	0057110
min. Earth dist. direct	2729 Apr 28 22:43 2729 Jun 29 14:20 2729 Oct 10 09:53 2729 Nov 02 17:39	7°M.19'10 2°M.25'43 15°M. 19°M.55'41	4.45625 AU	conjunction minimum elong max. Earth dist.	2735 May 03 15:21 2735 May 03 15:23 2735 May 05 12:59 2735 May 13 06:53	12°840'42 12°840'44 13°808'12 15°8	
max. Earth dist.	2729 Nov 13 14:16	22° M 17'42	6.42835 AU	morning rise	2735 May 17 05:17 2735 Jul 21 15:24	15° 8 56'32 0°Ⅲ	
conjunction minimum elong morning rise	2729 Nov 15 12:15 2729 Nov 15 12:17 2729 Nov 28 04:38 2729 Dec 19 09:01	22°M42'52 22°M42'53 25°M29'06 0°×7	0°52'40 0°52'41	retrograde min. Earth dist. opposition	2735 Sep 26 01:39 2735 Nov 23 04:01 2735 Nov 24 14:27 2735 Dec 04 22:01	6° 川 27'47 1° 川 34'51 1° 川 23'07 30°R <mark>と</mark>	3.99214 AU -1°08'48

minimum elong	2747 May 09 01:39	18° 8 03'31	0°54'36	opposition	2753 May 06 09:46	16°ML00'40	1°22'10
max. Earth dist.	2747 May 07 01:35 2747 May 11 01:16	18° 8 32'07	5.96409 AU	min. Earth dist.	2753 May 07 16:22	15°M50'53	4.44086 AU
morning rise	2747 May 11 01:10 2747 May 22 16:39	21° 8 19'17	3.70407 110	mm. Larm dist.	2753 May 14 08:58	15°RM	4.44000 710
morning 1130	2747 Jun 29 19:16	0° I		direct	2753 Jul 08 04:06	10°M59'10	
retrograde	2747 Oct 01 04:11	11° II 43'37		direct	2753 Aug 31 03:45	15°M	
min. Earth dist.	2747 Nov 28 06:00		4.00863 AU	evening set	2753 Nov 11 04:50	28°MJ33'57	
opposition	2747 Nov 29 17:51	6° Ⅱ 38'43		evening sec	2753 Nov 17 17:57	0° ⊼	
direct	2748 Jan 26 18:31	1° I I42'00	1 020.	max. Earth dist.	2753 Nov 21 20:30	0° х 54'14	6.40165 AU
evening set	2748 Jun 01 01:41	21° Ⅲ 03'38			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
				conjunction	2753 Nov 23 22:36	1° × 121'50	0°46'42
conjunction	2748 Jun 14 19:10	24° Ⅱ 15'36	-0°25'32	minimum elong	2753 Nov 23 22:37	1° ∡ 121'51	0°46'42
minimum elong	2748 Jun 14 19:11	24° Ⅱ 15'37	0°25'32	morning rise	2753 Dec 06 14:27	4° ҂ ¹08'55	
max. Earth dist.	2748 Jun 17 04:08	24° Ⅱ 48'51	6.06925 AU	retrograde	2754 Apr 07 06:18	21° ≯ 21'28	
morning rise	2748 Jun 28 14:05	27° II 28'04		opposition	2754 Jun 07 03:40	16° х 29'31	0°49'04
5	2748 Jul 09 15:21	0°ಅ		min. Earth dist.	2754 Jun 08 17:28	16° ∡ 17'28	4.34805 AU
retrograde	2748 Nov 04 02:17	16°©51'22		direct	2754 Aug 08 12:56	11° ∡ ¹29'48	
min. Earth dist.	2749 Jan 01 07:10	11° © 58'12	4.14074 AU	evening set	2754 Dec 12 03:48	29° ҂ ¹29'37	
opposition	2749 Jan 02 16:01	11°5947'02	-0°10'21	Č	2754 Dec 14 09:49	0°⋜	
direct	2749 Mar 02 15:52	6°€47'22		max. Earth dist.	2754 Dec 22 17:42	1° る 52'59	6.28189 AU
asc. node	2749 Mar 18 02:36	7°ഇ11'01					
evening set	2749 Jul 07 05:51	25° © 29'23		conjunction	2754 Dec 24 20:15	2° る 21'38	0°17'26
C				minimum elong	2754 Dec 24 20:16	2° る 21'39	0°17'26
conjunction	2749 Jul 20 22:58	28° © 34'35	0°11'33	morning rise	2755 Jan 06 11:38	5° る 13'26	
minimum elong	2749 Jul 20 22:57	28° © 34'35	0°11'33	retrograde	2755 May 10 22:06	23° る 19'28	
behind sun begin	2749 Jul 20 17:06	28° © 31'17		desc. node	2755 Jul 07 16:13	18° ප 50'12	
behind sun end	2749 Jul 21 04:49	28°537'52		opposition	2755 Jul 10 18:31	18° る 26'25	-0°00'25
max. Earth dist.	2749 Jul 22 18:47	28°959'16	6.21678 AU	min. Earth dist.	2755 Jul 12 03:05	18° る 15'59	4.20834 AU
	2749 Jul 27 06:40	$0^{\circ}\Omega$		direct	2755 Sep 10 01:59	13° る 29'09	
morning rise	2749 Aug 03 15:47	1° Ω 39'19			2756 Jan 04 08:08	0° ≈	
	2749 Oct 10 01:52	15° Ω		evening set	2756 Jan 13 12:05	2°≈06'45	
retrograde	2749 Dec 06 12:30	19° Ω 51'53		max. Earth dist.	2756 Jan 24 16:55	4° ≈ 43'46	6.13400 AU
min. Earth dist.	2750 Feb 03 11:58	14° Ω 57'26	4.28942 AU				
	2750 Feb 03 04:20	15°R Ω		conjunction	2756 Jan 26 05:40	5° ≈ 05'19	-0°18'31
opposition	2750 Feb 04 08:53	14° Ω 50′26	0°41'53	minimum elong	2756 Jan 26 05:39	5°≈05'18	0°18'32
direct	2750 Apr 05 15:44	9° Ω 48'36		morning rise	2756 Feb 07 23:53	8° ≈ 04'27	
	2750 Jun 05 07:00	15° Ω		•	2756 Mar 09 17:20	15° ≈	
evening set	2750 Aug 10 10:22	27° Ω 52'18		retrograde	2756 Jun 15 01:48	27°≈19'55	
	2750 Aug 20 04:08	0° m		opposition	2756 Aug 14 14:01	22° ≈ 24'16	-0°53'14
	•			min. Earth dist.	2756 Aug 15 07:03	22° ≈ 18'43	4.06344 AU
conjunction	2750 Aug 23 22:13	0° Mp 49'23	0°43'13	direct	2756 Oct 13 12:14	17° ≈ 29'21	
minimum elong	2750 Aug 23 22:11	0° Mp 49'22	0°43'12		2757 Jan 17 12:18	0° ℋ	
max. Earth dist.	2750 Aug 24 15:42	0° m 58'58	6.35509 AU	evening set	2757 Feb 15 20:34	6°) 47′00	
morning rise	2750 Sep 06 08:07	3° m/45'19					
retrograde	2751 Jan 06 07:48	21°M/02'00		conjunction	2757 Feb 28 18:32	9° 升 53′00	-0°49'40
opposition	2751 Mar 07 11:06	16° Mp 04'18	1°18'38	minimum elong	2757 Feb 28 18:30	9° 升 52'58	0°49'40
min. Earth dist.	2751 Mar 07 08:56	16° m 05'01	4.40741 AU	max. Earth dist.	2757 Feb 28 10:13	9°) 47′59	6.00529 AU
direct	2751 May 08 01:29	11° m 01'34		morning rise	2757 Mar 13 18:27	13°) 00′16	
evening set	2751 Sep 11 17:15	28° m 38'32			2757 Jun 06 09:43	$0^{\circ}\mathbf{\Upsilon}$	
	2751 Sep 18 00:47	0∘ ⊽		retrograde	2757 Jul 23 00:48	3° Y 18'25	
					2757 Sep 08 03:50	30° ₹ ₩	
conjunction	2751 Sep 24 21:50	1° ≏ 29'06	1°01'16	opposition	2757 Sep 21 02:29	28°) 1 9′01	-1°29'20
minimum elong	2751 Sep 24 21:49	1° ≏ 29'05	1°01'16	min. Earth dist.	2757 Sep 20 20:18	28°) €21'04	3.96435 AU
max. Earth dist.	2751 Sep 24 10:11	1° ≏ 22'49	6.44365 AU	direct	2757 Nov 18 15:26	23°) €25'22	
morning rise	2751 Oct 07 23:49	4° ≙ 18'19			2758 Jan 23 05:06	0 ° Υ	
retrograde	2752 Feb 05 07:42	21° ≙ 04'48		evening set	2758 Mar 24 05:54	13° Y 09'16	
opposition	2752 Apr 05 19:40	16° ≙ 10′20	1°32'39				
min. Earth dist.	2752 Apr 06 11:48	16° ≙ 05'06	4.46235 AU	conjunction	2758 Apr 06 10:51	16° Ƴ 21'14	-1°03'01
direct	2752 Jun 07 06:49	11° ≏ 07'44		minimum elong	2758 Apr 06 10:51	16° Ƴ 21'14	1°03'01
evening set	2752 Oct 11 16:45	28° ≏ 34'37		max. Earth dist.	2758 Apr 07 11:25	16° Ƴ 36′09	5.94461 AU
-	2752 Oct 18 07:24	0°M₊		morning rise	2758 Apr 19 18:59	19° Ƴ 34'53	
max. Earth dist.	2752 Oct 23 04:24	1°ML03'16	6.46042 AU		2758 Jun 04 16:46	8° 0	
				retrograde	2758 Aug 30 06:01	10° 8 18'27	
conjunction	2752 Oct 24 14:56	1°ML21'58	1°02'23	min. Earth dist.	2758 Oct 27 21:08	5° 8 24'23	3.95022 AU
minimum elong	2752 Oct 24 14:56	1°M21'58	1°02'22	opposition	2758 Oct 29 00:00	5° 8 15'17	-1°30'42
morning rise	2752 Nov 06 10:14	4°ML08'02		direct	2758 Dec 25 20:57	0° 8 20'44	
	2752 Dec 31 19:36	15° M ₊			2759 Apr 09 03:52	15° 8	
retrograde	2753 Mar 06 14:50	20°M53'04		evening set	2759 Apr 30 19:23	20° 8 03'39	
				-	-		

direct	2770 Day 21 01:22	5° 8 33'44		marning rise	2776 Nov. 14, 21,17	120M 15125	
direct	2770 Dec 31 01:22	_		morning rise	2776 Nov 14 21:17	12°M45'35	
	2771 Mar 21 08:39	15° 8			2776 Nov 25 08:25	15°M	
evening set	2771 May 06 00:17	25° 8 14'21		retrograde	2777 Mar 15 07:20	29°M34'57	101.455
				opposition	2777 May 15 03:51	24°M42'50	1°14'57
conjunction	2771 May 19 14:09	28° 8 28'25		min. Earth dist.	2777 May 16 12:50	24°M32'19	4.42415 AU
minimum elong	2771 May 19 14:11	28° 8 28'26	0°48'07	direct	2777 Jul 16 22:14	19° M 41'49	
max. Earth dist.	2771 May 21 18:40	28° 8 59'43	5.98873 AU		2777 Oct 15 18:01	0° ∡	
	2771 May 25 23:53	Π $^{\circ}0$		evening set	2777 Nov 19 18:48	7° ∡ ¹20'43	
morning rise	2771 Jun 02 06:43	1° ∏ 43'41		max. Earth dist.	2777 Nov 30 08:51	9° ∡ ¹40'59	6.37807 AU
retrograde	2771 Oct 11 01:16	21° Ⅱ 53′05					
min. Earth dist.	2771 Dec 08 02:44	17° Ⅱ 00′24	4.04197 AU	conjunction	2777 Dec 02 11:50	10° ∡ °09′13	0°39'39
opposition	2771 Dec 09 14:51	16° Ⅱ 48′05	-0°49'15	minimum elong	2777 Dec 02 11:52	10° ∡ 09'14	0°39'39
direct	2772 Feb 05 19:45	11° Ⅱ 50'32		morning rise	2777 Dec 15 03:12	12° × 57'04	
	2772 Jun 06 17:55	0° ©		•	2778 Apr 01 15:36	0°ರ	
evening set	2772 Jun 11 05:25	1° © 01'37		retrograde	2778 Apr 16 08:29	0°る20'12	
3					2778 May 01 01:20	30°R. ✓	
conjunction	2772 Jun 24 23:17	4°9512'00	-0°15'26	opposition	2778 Jun 16 07:16	25° ∡ 28′03	0°36'30
minimum elong	2772 Jun 24 23:18	4°9512'00	0°15'26	min. Earth dist.	2778 Jun 17 19:59	25° × 16'20	4.31884 AU
behind sun begin	2772 Jun 24 21:31	4°9510'59	0 13 20	direct	2778 Aug 17 11:40	20° × 1020	4.51004 AC
behind sun end	2772 Jun 25 01:06	4°9513'02		uncci	2778 Nov 10 18:22	20 x 2833	
		4 \$313 02 4°\$42'59	6.10811 AU			8° る 35'48	
max. Earth dist.	2772 Jun 27 04:55		0.10811 AU	evening set	2778 Dec 20 23:06		6.24020 ATT
morning rise	2772 Jul 08 18:19	7° 5 22'39		max. Earth dist.	2778 Dec 31 16:15	11° る 02'05	6.24939 AU
retrograde	2772 Nov 13 06:25	26° © 26'24				_	
asc. node	2772 Dec 06 21:25	25° © 31'10		conjunction	2779 Jan 02 15:30	11° る 29'05	
opposition	2773 Jan 11 21:45	21° © 22'43	0°04'58	minimum elong	2779 Jan 02 15:31	11° る 29'05	0°07'46
min. Earth dist.	2773 Jan 10 16:07	21° © 32'45	4.18101 AU	behind sun begin	2779 Jan 02 08:19	11° පි 25'00	
direct	2773 Mar 12 06:00	16° © 22'19		behind sun end	2779 Jan 02 22:42	11° る 33'10	
	2773 Jun 24 10:11	$0 {\circ} \Omega$		morning rise	2779 Jan 15 07:11	14° る 22'20	
evening set	2773 Jul 16 21:29	4° Ω 53'46		desc. node	2779 Mar 28 23:43	28° ⋜ 40'41	
					2779 Apr 07 21:41	0° ≈	
conjunction	2773 Jul 30 13:41	7° Ω 56'53	0°21'19	retrograde	2779 May 20 14:44	2° ≈ 43'41	
minimum elong	2773 Jul 30 13:39	7° Ω 56'52	0°21'18	· ·	2779 Jul 02 22:06	30°R₹	
max. Earth dist.	2773 Aug 01 03:04	8° Ω 17'47	6.25535 AU	opposition	2779 Jul 20 10:03	27°る50'02	-0°15'21
morning rise	2773 Aug 13 04:54	10° Ω 59'16		min. Earth dist.	2779 Jul 21 15:51	27° る 40'28	4.17445 AU
morning rise	2773 Aug 31 14:51	15° Ω		direct	2779 Sep 19 10:18	22°る53'22	4.17443710
retrograde	2773 Dec 15 04:58	28° Ω 55'26		uncet	2779 Nov 29 04:29	0°≈	
min. Earth dist.	2774 Feb 12 10:55	24°Ω00'24	4.32332 AU	avanina aat	2780 Jan 22 17:06	0 ∞ 11° ≈ 39'33	
				evening set			C 10140 ATT
opposition	2774 Feb 13 02:56	23° Ω 55'04	0°54'05	max. Earth dist.	2780 Feb 03 03:57	14° ≈ 21'14	6.10149 AU
direct	2774 Apr 14 18:36	18° Ω 52'54					
_	2774 Jul 17 22:43	0° т р		conjunction	2780 Feb 04 11:22	14° ≈ 39'46	
evening set	2774 Aug 19 13:56	6° ™ 49'08		minimum elong	2780 Feb 04 11:20	14° ≈ 39'45	0°28'03
					2780 Feb 05 21:40	15° ≈	
conjunction	2774 Sep 01 23:52	9° ™ 44'21	0°49'48	morning rise	2780 Feb 17 06:47	17° ≈ 40'48	
minimum elong	2774 Sep 01 23:50	9° ™ 44'19	0°49'48		2780 Apr 14 17:37	0° ℋ	
max. Earth dist.	2774 Sep 02 08:44	9° ™ 49'11	6.38192 AU	retrograde	2780 Jun 25 05:36	7°) 12′40	
morning rise	2774 Sep 15 07:43	12°M 38'20		opposition	2780 Aug 24 16:12	2° 升 16′02	-1°05'34
retrograde	2775 Jan 14 18:06	29° m 45'18		min. Earth dist.	2780 Aug 25 03:27	2° 升 12′21	4.03514 AU
opposition	2775 Mar 15 23:21	24° Mp 48'38	1°24'57		2780 Sep 11 17:11	30° R ≈	
min. Earth dist.	2775 Mar 16 02:30	24° Mp 47'36	4.42611 AU	direct	2780 Oct 23 04:45	27° ≈ 21'32	
direct	2775 May 16 20:51	19° m 45'53			2780 Dec 02 21:58	0° ∀	
	2775 Aug 15 18:04	$0 \circ \overline{\mathbf{v}}$		evening set	2781 Feb 25 13:36	16°) 46′42	
evening set	2775 Sep 20 11:41	7° ≏ 19'32		evening see	2701100 20 15.50	10 /(10 12	
evening set	2773 бер 20 11.41	7 =1732		conjunction	2781 Mar 10 13:11	19° ¥ 54'21	-0°55'30
agniumation	2775 Oat 02 14:29	10° ≏ 09'01	1°03'18	minimum elong	2781 Mar 10 13:11	19° X 54'20	0°55'30
conjunction	2775 Oct 03 14:28			Č			
minimum elong	2775 Oct 03 14:28	10° Ω 09'00	1°03'17	max. Earth dist.	2781 Mar 10 13:04	19°) 54'17	5.98365 AU
max. Earth dist.	2775 Oct 02 20:46	9° Ω 59'27	6.45311 AU	morning rise	2781 Mar 23 14:59	23°) €03'26	
morning rise	2775 Oct 16 14:24	12° £ 57'06		_	2781 Apr 22 11:38	0° Υ	
retrograde	2776 Feb 13 17:28	29° ≏ 41'04		retrograde	2781 Aug 02 10:45	13° Y 32'23	
opposition	2776 Apr 14 08:06	24° Ω 47'20	1°32'07	opposition	2781 Oct 01 09:45	8° Ƴ 31'56	
min. Earth dist.	2776 Apr 15 03:47	24° £ 40'59	4.46276 AU	min. Earth dist.	2781 Sep 30 22:47	8° Ƴ 35'36	3.95192 AU
direct	2776 Jun 15 22:33	19° ≏ 45'02		direct	2781 Nov 28 17:12	3° Y 38'14	
	2776 Sep 15 05:55	0° M		evening set	2782 Apr 03 08:57	23° Y 25'03	
evening set	2776 Oct 20 06:35	7°M12'33					
max. Earth dist.	2776 Oct 31 12:25	9°M38'33	6.45190 AU	conjunction	2782 Apr 16 16:11	26° Ƴ 38'10	-1°02'20
				minimum elong	2782 Apr 16 16:11	26° Ƴ 38'11	1°02'20
conjunction	2776 Nov 02 03:15	9° M 59'39	0°59'33	max. Earth dist.	2782 Apr 18 00:05	26° Y ′57'30	5.94246 AU
minimum elong	2776 Nov 02 03:16	9° M 59'40	0°59'33	morning rise	2782 Apr 30 02:36	29° Y ′52'57	
				<i>5</i>	r	– + /	

2787 Oct 07 22:22

minimum elong

14°**≏**28'42

1°03'47

conjunction

2793 Mar 15 14:45

25°\(\)\(05'47\)\(-0°57'54\)

conjunction	2804 Feb 14 01:17	24° ≈ 34'22	-0°37'07	morning rise	2809 Aug 27 08:07	24° Ω 50'18	
minimum elong	2804 Feb 14 01:15	24° ≈ 34'21	0°37'08	5 6 44	2809 Sep 20 11:50	0° m)	
morning rise	2804 Feb 26 22:20	27°≈38'00		retrograde	2809 Dec 28 02:40	12° m) 22'15	
S	2804 Mar 08 00:04	0° ₩		opposition	2810 Feb 26 03:47	7° m) 23'20	1°09'32
retrograde	2804 Jul 05 20:36	17° ₩ 30'40		min. Earth dist.	2810 Feb 25 19:14	7° m) 26'10	4.37563 AU
opposition	2804 Sep 04 04:02	12° ¥ 33'05	-1°16'29	direct	2810 Apr 28 08:40	2° Mp 20'44	
min. Earth dist.	2804 Sep 04 08:37		3.99935 AU	evening set	2810 Sep 02 01:57	20° Mp 04'28	
direct	2804 Nov 02 06:06	7° ₩ 39'05			·	-	
evening set	2805 Mar 07 18:30	27° ₩ 14'42		conjunction	2810 Sep 15 08:55	22° m 56'47	0°57'22
	2805 Mar 19 03:47	0 ° Υ		minimum elong	2810 Sep 15 08:53	22° m 56'47	0°57'22
				max. Earth dist.	2810 Sep 15 07:18	22° m 55'55	6.42285 AU
conjunction	2805 Mar 20 20:04	0° Υ 24'26	-0°59'50	morning rise	2810 Sep 28 13:12	25° m 47'45	
minimum elong	2805 Mar 20 20:02	0° Υ 24'25	0°59'50		2810 Oct 18 11:24	0∘ ⊽	
max. Earth dist.	2805 Mar 21 05:30	0° Ƴ 30′09	5.95885 AU	retrograde	2811 Jan 27 05:49	12° ≙ 40'42	
morning rise	2805 Apr 03 00:16	3° Ƴ 35'43		opposition	2811 Mar 28 15:27	7° ≏ 45'19	1°30'46
retrograde	2805 Aug 13 07:31	24° Ƴ 15′24		min. Earth dist.	2811 Mar 29 01:40	7° ჲ 42'00	4.45326 AU
min. Earth dist.	2805 Oct 11 09:37	19° Ƴ 19'49	3.94135 AU	direct	2811 May 29 21:14	2° ≏ 42'37	
opposition	2805 Oct 12 03:19	19° Ƴ 13'52	-1°34'49	evening set	2811 Oct 03 09:25	20° ≏ 10'33	
direct	2805 Dec 09 05:15	14° Y 20'01		max. Earth dist.	2811 Oct 15 04:11	22° ≏ 42'45	6.46389 AU
	2806 Mar 27 12:25	0°8					
evening set	2806 Apr 14 00:14	4° 8 08'47		conjunction	2811 Oct 16 09:18	22° ≏ 58'28	1°03'43
				minimum elong	2811 Oct 16 09:18	22° ≏ 58'28	1°03'43
conjunction	2806 Apr 27 09:55	7° 8 22'49	-0°59'34	morning rise	2811 Oct 29 06:35	25° ≏ 45'06	
minimum elong	2806 Apr 27 09:56	7° 8 22'50	0°59'33		2811 Nov 18 11:01	0° M \cdot	
max. Earth dist.	2806 Apr 29 03:38	7° 8 48'01	5.94710 AU	retrograde	2812 Feb 26 08:45	12° M 27'16	
morning rise	2806 May 10 22:32	10° 8 38'23		opposition	2812 Apr 27 01:12	7° M 34'21	1°27'40
	2806 May 29 10:28	15° 8		min. Earth dist.	2812 Apr 28 04:26	7° M 25'37	4.45649 AU
	2806 Aug 23 06:00	$\Pi^{\circ}0$		direct	2812 Jun 28 19:34	2°M32'22	
retrograde	2806 Sep 20 01:10	1° Ⅱ 14'56			2812 Oct 09 01:16	15° ™	
	2806 Oct 17 14:51	30° ₹ 8		evening set	2812 Nov 01 22:29	20° ™ 02'27	
min. Earth dist.	2806 Nov 17 05:37	26° 8 21'50	3.97831 AU	max. Earth dist.	2812 Nov 12 19:38	22° M 24'41	6.42848 AU
opposition	2806 Nov 18 14:54	26° 8 10'31	-1°15'00				
direct	2807 Jan 15 11:36	21° 8 14'45		conjunction	2812 Nov 14 17:30	22° M 49'46	0°52'58
	2807 Apr 02 19:09	Π $^{\circ}0$		minimum elong	2812 Nov 14 17:31	22° M 49'47	0°52'58
evening set	2807 May 21 16:42	10° Ⅱ 46'51		morning rise	2812 Nov 27 10:01	25°M36'04	
					2812 Dec 18 01:10	0° ∡ ¹	
conjunction	2807 Jun 04 08:52	14° Ⅱ 00'09	-0°35'51	retrograde	2813 Mar 28 09:51	12° ∡ ³36'38	
minimum elong	2807 Jun 04 08:54	14° Ⅱ 00'10	0°35'51	opposition	2813 May 28 07:50	7° ∡ ¹44'42	1°01'05
max. Earth dist.	2807 Jun 06 16:49	14° Ⅲ 33′08	6.02839 AU	min. Earth dist.	2813 May 29 19:45	7° ∡ ³33'15	4.38467 AU
morning rise	2807 Jun 18 03:20	17° Ⅱ 14'19		direct	2813 Jul 29 21:05	2° ∡ ¹44'20	
	2807 Aug 17 02:22	0 \circ \odot		evening set	2813 Dec 02 15:26	20° ∡ ³34'16	
retrograde	2807 Oct 25 16:40	6°959'40		max. Earth dist.	2813 Dec 13 04:10	22° ∡ 55'32	6.32539 AU
min. Earth dist.	2807 Dec 22 18:52	2° © 06'58	4.09411 AU				
opposition	2807 Dec 24 06:23	1° 9 54'52	-0°27'10	conjunction	2813 Dec 15 07:55	23° ∡ ¹24'35	0°27'22
	2808 Jan 07 17:28	30° Ŗ Ⅱ		minimum elong	2813 Dec 15 07:57	23° х 24′36	0°27'21
direct	2808 Feb 20 21:11	26° Ⅱ 56′04		morning rise	2813 Dec 27 23:08	26° ∡ 14'31	
	2808 Apr 05 02:03	0ංම			2814 Jan 14 01:12	o°ප	
evening set	2808 Jun 26 09:34	15° © 51'22		retrograde	2814 Apr 30 10:27	14° る 01'01	
asc. node	2808 Jul 07 06:26	18° © 19'41		opposition	2814 Jun 30 06:59	9° る 08'29	0°15'43
				min. Earth dist.	2814 Jul 01 19:15	8° る 56'54	4.25587 AU
conjunction	2808 Jul 10 03:32	18° © 59'03	0°00'17	direct	2814 Aug 31 00:45	4° る 10'21	
minimum elong	2808 Jul 10 03:30	18° © 59'03	0°00'16	desc. node	2814 Oct 26 20:14	8° る 49'00	
behind sun begin	2808 Jul 09 19:11	18° © 54'19		evening set	2815 Jan 03 10:56	22° る 34'56	
behind sun end	2808 Jul 10 11:50	19° © 03'46		max. Earth dist.	2815 Jan 14 08:33	25° る 06'06	6.18146 AU
max. Earth dist.	2808 Jul 12 05:39	19° 5 27'37	6.16838 AU				
morning rise	2808 Jul 23 21:33	22° 5 06'30		conjunction	2815 Jan 16 03:54	25° る 31'14	-0°07'29
	2808 Aug 29 09:55	0 $^{\circ}$ Ω		minimum elong	2815 Jan 16 03:53	25° る 31'14	0°07'29
retrograde	2808 Nov 26 22:17	10° Ω 40'51		behind sun begin	2815 Jan 15 20:35	25° る 27'01	
opposition	2809 Jan 25 15:24	5° Ω 38'21	0°27'03	behind sun end	2815 Jan 16 11:11	25° る 35'26	
min. Earth dist.	2809 Jan 24 14:12	5° Ω 46'50	4.24341 AU	morning rise	2815 Jan 28 20:55	28° る 27'51	
direct	2809 Mar 26 12:34	0° Ω 37'05			2815 Feb 04 13:26	0° ≈	
	2809 Jul 13 08:27	15° Ω			2815 Apr 26 10:55	15° ≈	
evening set	2809 Jul 31 05:50	18° Ω 52'04		retrograde	2815 Jun 04 17:40	17° ≈ 20'34	
					2815 Jul 14 10:38	15° R ≈	
conjunction	2809 Aug 13 19:40	21° Q 51'40	0°34'40	opposition	2815 Aug 04 09:38	12° ≈ 25'53	-0°37'46
minimum elong	2809 Aug 13 19:38	21° Ω 51'39	0°34'40	min. Earth dist.	2815 Aug 05 08:16	12° ≈ 18'33	4.10691 AU
max. Earth dist.	2809 Aug 14 21:58	22° Ω 06'11	6.31491 AU	direct	2815 Oct 03 17:54	7° ≈ 30'16	

conjunction	2839 Jan 25 06:25	4° ≈ 57'54	-0°17'24	morning rise	2844 Aug 07 10:29	6° Ω 17'04	
minimum elong	2839 Jan 25 06:23	4°≈57'53		morning rise	2844 Sep 17 15:29	15° Ω	
morning rise	2839 Feb 07 00:14	7°≈56'17	0 1/21	retrograde	2844 Dec 10 01:40	24°Ω26'00	
	2839 Mar 10 11:28	15° ≈		opposition	2845 Feb 07 22:01	19° Ω 24'55	0°46'48
retrograde	2839 Jun 14 19:28	27° ≈ 05'37		min. Earth dist.	2845 Feb 07 02:30		4.29580 AU
opposition	2839 Aug 14 09:21	22°≈10'07	-0°51'29		2845 Mar 20 16:10	15°R Ω	
min. Earth dist.	2839 Aug 15 03:27	22°≈04'15	4.07616 AU	direct	2845 Apr 09 07:19	14° Ω 22'59	
direct	2839 Oct 13 09:19	17° ≈ 15′04			2845 Apr 29 04:52	15° Ω	
	2840 Jan 18 16:02	0° ∀			2845 Aug 02 20:53	0° m)	
evening set	2840 Feb 15 16:53	6° ∺ 28'44		evening set	2845 Aug 14 03:23	2° m 25'49	
					-		
conjunction	2840 Feb 28 14:19	9°) 34′03	-0°48'42	conjunction	2845 Aug 27 14:36	5° ™ 22'28	0°45'51
minimum elong	2840 Feb 28 14:17	9° ∺ 34'02	0°48'42	minimum elong	2845 Aug 27 14:34	5° Mp 22'27	0°45'52
max. Earth dist.	2840 Feb 28 02:29	9° ∺ 26'57	6.01539 AU	max. Earth dist.	2845 Aug 28 05:23	5° m 30'34	6.35984 AU
morning rise	2840 Mar 12 13:53	12° ¥ 40'41		morning rise	2845 Sep 09 23:56	8° m) 17'57	
	2840 Jun 08 01:09	0° Y		retrograde	2846 Jan 09 19:48	25° m 32'36	
retrograde	2840 Jul 21 15:09	2° Y 54'39		opposition	2846 Mar 10 23:34	20° m 35'13	1°21'11
	2840 Sep 03 14:21	30° Ŗ ₩		min. Earth dist.	2846 Mar 10 22:55	20° M 35'26	4.41046 AU
opposition	2840 Sep 19 18:28	27° ¥ 55′27		direct	2846 May 11 16:27	15° m 32'30	
min. Earth dist.	2840 Sep 19 14:01		3.97047 AU		2846 Aug 31 10:34	0∘ ಹ	
direct	2840 Nov 17 09:33	23°) €01'42		evening set	2846 Sep 15 08:15	3° ჲ 09'14	
	2841 Jan 24 03:32	0° Υ					
evening set	2841 Mar 22 22:39	12° Ƴ 44'10		conjunction	2846 Sep 28 12:16	5° ≏ 59'31	1°02'03
				minimum elong	2846 Sep 28 12:15	5° ≏ 59'30	1°02'03
conjunction	2841 Apr 05 03:22	15° Y ′55'54		max. Earth dist.	2846 Sep 27 23:49	5° ≙ 52'47	6.44488 AU
minimum elong	2841 Apr 05 03:22	15° Y 55'54		morning rise	2846 Oct 11 13:30	8° ≏ 48'24	
max. Earth dist.	2841 Apr 06 02:23		5.94636 AU	retrograde	2847 Feb 08 19:16	25° £ 34'26	
morning rise	2841 Apr 18 10:53	19° Y ′09'14		opposition	2847 Apr 10 08:42	20° £ 40'11	1°32'21
	2841 Jun 05 10:47	0°8		min. Earth dist.	2847 Apr 11 01:13	20° £ 34'51	4.46190 AU
retrograde	2841 Aug 28 23:36	9° 8 52'56	1021102	direct	2847 Jun 11 20:58	15° ≙ 37'44	
opposition	2841 Oct 27 16:19	4° 8 50'04			2847 Oct 01 17:31	0°M	
min. Earth dist.	2841 Oct 26 15:56	_	3.94728 AU	evening set	2847 Oct 16 06:20	3°M04'47	C 45020 ATT
1' 4	2841 Dec 18 02:11	30°₹ Υ		max. Earth dist.	2847 Oct 27 16:28	5°11632'47	6.45838 AU
direct	2841 Dec 24 14:06 2841 Dec 31 01:27	29° Y 55'38 0° と		conjunction	2947 Oct. 20, 02:57	5°M52'00	1°01'09
	2841 Dec 31 01:27 2842 Apr 09 14:10	15° 8		minimum elong	2847 Oct 29 03:57 2847 Oct 29 03:57	5°M52'00	1°01'09 1°01'09
evening set	2842 Apr 29 12:09	19° 8 40'24		morning rise	2847 Oct 29 03:37 2847 Nov 10 22:51	8°MJ38'00	1 01 09
evening set	2042 Apr 27 12.07	17 04024		morning risc	2847 Dec 11 13:46	15°M	
conjunction	2842 May 13 00:47	22° 8 54'46	-0°52'10	retrograde	2848 Mar 10 04:50	25°M24'01	
minimum elong	2842 May 13 00:50	22° 8 54'47		opposition	2848 May 10 00:36	20°M31'42	1°19'05
max. Earth dist.	2842 May 15 01:25	_	5.97044 AU	min. Earth dist.	2848 May 11 07:46	20°M21'45	4.43734 AU
morning rise	2842 May 26 16:22	26° 8 10'30	0.57011110	direct	2848 Jul 11 19:43	15°M30'24	575.110
	2842 Jun 12 00:05	0°II		4.1.001	2848 Oct 31 09:20	0° ∡ 7	
retrograde	2842 Oct 04 23:32	16° Ⅲ 31'03		evening set	2848 Nov 14 17:46	3° х ¹05'36	
min. Earth dist.	2842 Dec 02 01:06	11° II 38'18	4.01632 AU	max. Earth dist.	2848 Nov 25 09:22	5° ≯ 26'03	6.39697 AU
opposition	2842 Dec 03 12:35	11° Ⅱ 26′12					
direct	2843 Jan 30 13:57	6° Ⅱ 29'13		conjunction	2848 Nov 27 11:15	5° ∡ 753'34	0°43'45
evening set	2843 Jun 05 23:16	25° Ⅱ 48'58		minimum elong	2848 Nov 27 11:17	5° ∡ ¹53'35	0°43'45
-				morning rise	2848 Dec 10 02:54	8° ∡ 140'46	
conjunction	2843 Jun 19 16:56	29° Ⅱ 00'39	-0°21'39	retrograde	2849 Apr 10 21:49	25° ₹ 155'36	
minimum elong	2843 Jun 19 16:57	29° Ⅱ 00'40	0°21'39	opposition	2849 Jun 10 20:40	21° х 03′34	0°43'53
max. Earth dist.	2843 Jun 21 23:54	29° Ⅲ 32'40	6.07759 AU	min. Earth dist.	2849 Jun 12 09:32	20° ∡ 751'49	4.34237 AU
	2843 Jun 23 22:52	0 \circ \odot		direct	2849 Aug 12 04:50	16° ₰ 04'03	
morning rise	2843 Jul 03 12:03	2° © 12'47			2849 Nov 27 06:13	ರ°0	
retrograde	2843 Nov 08 17:21	21° © 31'32		evening set	2849 Dec 15 17:21	4° ප 04'36	
min. Earth dist.	2844 Jan 05 23:41	16° 5 38'09	4.14893 AU	max. Earth dist.	2849 Dec 26 08:51	6° る 29'05	6.27567 AU
opposition	2844 Jan 07 07:15	16° © 27'26	-0°04'22				
asc. node	2844 Feb 07 17:57	12° © 42'37		conjunction	2849 Dec 28 09:42	6°₹56'49	0°13'31
direct	2844 Mar 06 09:11	11° © 27'31		minimum elong	2849 Dec 28 09:42	6° ප 56'49	0°13'32
	2844 Jul 10 10:46	0 $^{\circ}\Omega$		behind sun begin	2849 Dec 28 05:09	6° ප 54'15	
evening set	2844 Jul 11 01:08	0° Ω 08'02		behind sun end	2849 Dec 28 14:16	6° る 59'24	
				morning rise	2850 Jan 10 01:03	9° ප 48'51	
conjunction	2844 Jul 24 18:07	3°Ω12'50	0°15'24	retrograde	2850 May 14 17:23	27° る 58'12	
minimum elong	2844 Jul 24 18:07	3°Ω12'50	0°15'24	desc. node	2850 May 28 06:24	27° る 41'03	0006122
behind sun begin	2844 Jul 24 16:19	3° Ω 11'49		opposition	2850 Jul 14 13:54	23° る 04'57	
behind sun end	2844 Jul 24 19:55	3° Ω 13'50		min. Earth dist.	2850 Jul 15 21:56	22° る 54'41	4.20172 AU
max. Earth dist.	2844 Jul 26 12:17		6.22434 AU	direct	2850 Sep 13 20:01	18° る 07'49	1.20172710

	2850 Dec 17 22:40	0° ≈		conjunction	2856 Jul 29 14:40	7° Ω 56'36	0°20'15
evening set	2851 Jan 17 03:18	6°≈46'32		minimum elong	2856 Jul 29 14:38	7° Ω 56'36	0°20'14
max. Earth dist.	2851 Jan 28 09:16	9°≈24'26	6.12734 AU	max. Earth dist.	2856 Jul 31 04:40	8° Ω 17'53	6.24770 AU
		,		morning rise	2856 Aug 12 06:18	10° Ω 59'27	0.2.,,,,,,,
conjunction	2851 Jan 29 21:00	9° ≈ 45'24	-0°22'17	Č	2856 Aug 30 15:08	15° Ω	
minimum elong	2851 Jan 29 20:59	9° ≈ 45'23	0°22'17	retrograde	2856 Dec 14 10:17	28° Ω 58′25	
morning rise	2851 Feb 11 15:35	12° ≈ 44'58		opposition	2857 Feb 12 07:32	23° Ω 57'46	0°52'43
	2851 Feb 21 08:44	15° ≈		min. Earth dist.	2857 Feb 11 14:59	24° Ω 03'17	4.31786 AU
	2851 May 14 04:24	0° ∀		direct	2857 Apr 13 22:57	18° Ω 55'35	
retrograde	2851 Jun 19 23:07	2°) €04'18			2857 Jul 16 18:52	O° My	
	2851 Jul 26 22:38	30° R ≈		evening set	2857 Aug 18 16:37	6° Mp 52′37	
opposition	2851 Aug 19 11:19	27° ≈ 08'18	-0°58'01				
min. Earth dist.	2851 Aug 20 02:43	27° ≈ 03'17	4.05708 AU	conjunction	2857 Sep 01 02:58	9° ™ 48'05	0°49'00
direct	2851 Oct 18 06:18	22°≈13'27		minimum elong	2857 Sep 01 02:56	9° ™ 48'04	0°49'00
	2851 Dec 30 06:21	0°) €		max. Earth dist.	2857 Sep 01 15:10	9° ™ 54'44	6.37887 AU
evening set	2852 Feb 20 14:28	11° ∺ 32'38		morning rise	2857 Sep 14 10:59	12°Mp42'17	
				retrograde	2858 Jan 13 21:45	29° m 50'05	
conjunction	2852 Mar 04 12:55	14°) 39′04		opposition	2858 Mar 15 04:13	24° Mp 53'10	1°24'04
minimum elong	2852 Mar 04 12:53	14°) (39′03	0°51'57	min. Earth dist.	2858 Mar 15 05:16	24° m 52'49	4.42522 AU
max. Earth dist.	2852 Mar 04 06:39	14°) € 35'18	5.99964 AU	direct	2858 May 15 23:54	19° m 50'24	
morning rise	2852 Mar 17 13:22	17°) 46′50			2858 Aug 14 12:33	0∘ 亚	
	2852 May 11 23:28	0°Υ		evening set	2858 Sep 19 15:06	7° £ 23'35	
retrograde	2852 Jul 27 00:14	8° Υ 08'18	1020150		2050 0	1000101	1000154
opposition	2852 Sep 25 01:01	3°Υ08'35		conjunction	2858 Oct 02 17:59	10° Ω 13'04	1°02'54
min. Earth dist.	2852 Sep 24 18:08		3.95994 AU	minimum elong	2858 Oct 02 17:58	10° £ 13'04	1°02'53
J: 4	2852 Oct 20 18:38	30° ₹ ₩		max. Earth dist.	2858 Oct 02 00:48	10° £ 03'48	6.45413 AU
direct	2852 Nov 22 12:28	28° ¥ 14'55 0° Ƴ		morning rise	2858 Oct 15 18:16	13° Ω 01'13 29° Ω 44'44	
avanina aat	2852 Dec 24 23:11 2853 Mar 28 03:05	18° Υ 00'13		retrograde opposition	2859 Feb 12 22:29	29° 2 244°44 24° 2 50'51	1°31'51
evening set	2633 Mai 26 03.03	18 1 00 13		min. Earth dist.	2859 Apr 14 12:12 2859 Apr 15 08:15	24° £ 30'31 24° £ 44'23	4.46504 AU
agniunation	2853 Apr 10 08:49	21° Υ 12'40	1002147	direct	2859 Jun 16 03:36	24 ≗ 44 23 19° £ 48'27	4.46304 AU
conjunction minimum elong	2853 Apr 10 08:49	21° Υ 12'40 21° Υ 12'40		direct	2859 Sep 15 03:13	0°M	
max. Earth dist.	2853 Apr 10 08.49 2853 Apr 11 11:03	21° Υ 21° Υ $28'$ 35	5.94195 AU	evening set	2859 Oct 20 09:44	7°M15'00	
morning rise	2853 Apr 23 17:45	24° Υ 26'49	3.74173 AO	max. Earth dist.	2859 Oct 20 05:44 2859 Oct 31 15:28	9°M40'49	6.45494 AU
morning risc	2853 May 17 07:48	0° 8		max. Earth dist.	2037 Oct 31 13.20) IIC+0+)	0. 43474 A0
	2853 Aug 23 13:59	15° 8		conjunction	2859 Nov 02 06:41	10°M02'05	0°59'39
retrograde	2853 Sep 03 05:48	15° 8 11'15		minimum elong	2859 Nov 02 06:42	10°M02'05	0°59'39
8	2853 Sep 13 20:52	15°R 8		morning rise	2859 Nov 15 01:00	12°M47'59	
opposition	2853 Nov 01 22:06	10° 8 07'58	-1°28'18		2859 Nov 25 07:45	15°M	
min. Earth dist.	2853 Oct 31 18:25		3.94987 AU	retrograde	2860 Mar 14 09:22	29°M36'14	
direct	2853 Dec 29 17:56	5° 8 13'17		opposition	2860 May 14 06:11	24°M44'01	1°15'26
	2854 Mar 21 16:43	15° 8		min. Earth dist.	2860 May 15 14:40	24°M33'38	4.42755 AU
evening set	2854 May 04 19:07	24° 8 56'44		direct	2860 Jul 16 00:02	19°M42'50	
					2860 Oct 14 19:25	0° ∡ ¹	
conjunction	2854 May 18 08:49	28° 8 11'08	-0°48'49	evening set	2860 Nov 18 21:41	7° ∡ ¹21'01	
minimum elong	2854 May 18 08:52	28° 8 11'09	0°48'48	max. Earth dist.	2860 Nov 29 12:49	9° √ 41'41	6.38150 AU
max. Earth dist.	2854 May 20 11:57	28° 8 41'41	5.97995 AU				
	2854 May 25 23:08	$\Pi^{\circ}0$		conjunction	2860 Dec 01 14:58	10° ₰ 09'27	0°40'15
morning rise	2854 Jun 01 01:13	1° Ⅱ 26'46		minimum elong	2860 Dec 01 15:00	10° ₹ 09'28	0°40'15
retrograde	2854 Oct 10 00:36	21° Ⅱ 40'47		morning rise	2860 Dec 14 06:19	12° ₹ 57'11	
min. Earth dist.	2854 Dec 07 01:50	16° Ⅱ 47'53	4.03164 AU		2861 Apr 01 03:52	0°ಕ	
opposition	2854 Dec 08 13:12	16° Ⅱ 35'49	-0°50'42	retrograde	2861 Apr 15 09:41	0° る 18'54	
direct	2855 Feb 04 17:44	11° Ⅱ 38'25			2861 Apr 29 15:38	30°₽ ∡ 7	
	2855 Jun 07 07:04	0ංම		opposition	2861 Jun 15 08:09	25° ₹ 26'51	0°37'41
evening set	2855 Jun 11 03:13	0°953'00		min. Earth dist.	2861 Jun 16 21:55	25° √ 14'49	4.32196 AU
				direct	2861 Aug 16 13:32	20° ₹ 27'38	
conjunction	2855 Jun 24 21:14	4°903'54			2861 Nov 09 23:33	0°る	
minimum elong	2855 Jun 24 21:15	4°503'55		evening set	2861 Dec 20 01:38	8°る34'07	(25105 417
max. Earth dist.	2855 Jun 27 05:27	4°936'28	6.09760 AU	max. Earth dist.	2861 Dec 30 16:15	10° る 58'57	6.25185 AU
morning rise	2855 Jul 08 16:16	7°515'04		aaniu	2062 Ic. 01 17.57	110-207110	0000144
retrograde	2855 Nov 13 08:55	26°523'19		conjunction	2862 Jan 01 17:57	11° る 27'19	0°08'44
asc. node opposition	2855 Dec 18 17:46 2856 Jan 11 24:00	24°©22'58 21°©19'31	0°03'20	minimum elong behind sun begin	2862 Jan 01 17:58 2862 Jan 01 11:02	11°る27'19 11°る23'23	0°08'44
min. Earth dist.	2856 Jan 11 24:00 2856 Jan 10 16:32	21°930'10	4.17157 AU	behind sun begin	2862 Jan 01 11:02 2862 Jan 02 00:53	11° る 23°23	
direct	2856 Mar 11 05:41	16°9519'16	7.1/13/ AU	morning rise	2862 Jan 02 00:33 2862 Jan 14 09:49	11° ろ 31°13	
direct	2856 Jun 23 13:20	0°Ω		morning 1150	2862 Apr 07 08:29	0°≈	
evening set	2856 Jul 15 22:27	4° Ω 53'08		desc. node	2862 Apr 08 02:54	0°≈05'32	
o ronning sec	2000 Jul 10 22.2/	. 062200		dose, node	2002 ripi 00 02.34	0 70103 32	

retrograde	2862 May 19 14:55	2° ≈ 40'39		retrograde	2867 Nov 17 23:49	1° Ω 14'11	
	2862 Jul 01 11:26	30°Ŗ₹			2867 Dec 15 12:05	30° ₹ 5	
opposition	2862 Jul 19 09:55	27° る 47'06	-0°13'48	min. Earth dist.	2868 Jan 15 10:27	26° 5 20'41	4.19526 AU
min. Earth dist.	2862 Jul 20 16:10	27° る 37'22	4.17605 AU	opposition	2868 Jan 16 15:57	26° © 10'42	0°11'01
direct	2862 Sep 18 10:40	22° る 50'17		direct	2868 Mar 16 03:03	21° © 10'03	
	2862 Nov 28 12:29	0° ≈			2868 Jun 04 17:39	$0^{\circ}\Omega$	
evening set	2863 Jan 21 19:11	11° ≈ 36'44		evening set	2868 Jul 20 19:00	9° Ω 37'24	
max. Earth dist.	2863 Feb 02 06:17	14° ≈ 18′28	6.10222 AU				
				conjunction	2868 Aug 03 10:42	12° Ω 39'38	0°25'00
conjunction	2863 Feb 03 13:36	14° ≈ 36'57	-0°27'03	minimum elong	2868 Aug 03 10:41	12° Ω 39'38	0°25'00
minimum elong	2863 Feb 03 13:35	14° ≈ 36'56	0°27'02	max. Earth dist.	2868 Aug 04 22:33	12° Ω 59'37	6.27050 AU
	2863 Feb 05 04:41	15° ≈			2868 Aug 13 23:00	15° Ω	
morning rise	2863 Feb 16 08:46	17° ≈ 37'53		morning rise	2868 Aug 17 01:14	15° Ω 41'04	
	2863 Apr 15 02:05	0° ∀			2868 Oct 31 10:24	0° m/	
retrograde	2863 Jun 25 06:33	7° ∺ 09'00		retrograde	2868 Dec 18 18:16	3°m/30'46	
opposition	2863 Aug 24 15:53	2° 			2869 Feb 05 08:14	30°R Ω	
min. Earth dist.	2863 Aug 25 04:51		4.03494 AU	opposition	2869 Feb 16 16:46	28° Ω 30'41	
	2863 Sep 11 04:56	30° Ŗ ≈		min. Earth dist.	2869 Feb 16 02:15	28° Ω 35'31	4.33801 AU
direct	2863 Oct 23 05:31	27°≈18'07		direct	2869 Apr 18 12:02	23° Ω 28'22	
	2863 Dec 03 09:53	0° ∀			2869 Jun 26 20:56	0° т р	
evening set	2864 Feb 25 15:37	16°) 44′02		evening set	2869 Aug 23 05:57	11° Mp 20'33	
	206434 00 14.52	1001/51110	007440		2000 0 05 15 04	1 10 3 1 1155	0051155
conjunction	2864 Mar 09 14:53	19° ¥ 51'40		conjunction	2869 Sep 05 15:04	14° m 14'55	
minimum elong	2864 Mar 09 14:52	19° ¥ 51'39		minimum elong	2869 Sep 05 15:02	14° Mp 14'54	0°51'55
max. Earth dist.	2864 Mar 09 12:24	19° ¥ 50′09	5.98250 AU	max. Earth dist.	2869 Sep 05 21:25	14° Mp 18'22	6.39475 AU
morning rise	2864 Mar 22 16:40	23° ₩ 00'45 0° Ƴ		morning rise	2869 Sep 18 22:05	17° ™ 08'01 0° ≏	
ratra ara da	2864 Apr 21 17:44	13° Y 29'52		ratra arada	2869 Nov 25 17:15 2870 Jan 18 03:23	0° 22 4° 2 10'24	
retrograde opposition	2864 Aug 01 10:23 2864 Sep 30 10:19	8° Υ 29'36	1022155	retrograde	2870 Mar 13 12:25	4 == 10 24 30°R ™	
min. Earth dist.	2864 Sep 29 22:47		3.95002 AU	annagition	2870 Mar 13 12.23 2870 Mar 19 09:57		1°26'36
direct	2864 Nov 27 17:26	8 1 33 27 3° Υ 35'57	3.93002 AU	opposition min. Earth dist.	2870 Mar 19 09.37 2870 Mar 19 14:43	29° m) 12'24	4.43608 AU
evening set	2865 Apr 02 10:45	23° Y 23'45		direct	2870 May 20 09:47	24° Mp 11'08	4.43008 AC
evening set	2003 Apr 02 10.43	23 1 23 43		direct	2870 Jul 25 08:34	0° ⊡	
conjunction	2865 Apr 15 17:46	26° Ƴ 36'53	-1°02'14	evening set	2870 Sep 23 23:08	0 — 11° ≏ 42'09	
minimum elong	2865 Apr 15 17:47	26° Υ 36'53		max. Earth dist.	2870 Oct 06 05:12	14° £ 20'16	6.45914 AU
max. Earth dist.	2865 Apr 17 01:43	26°Υ56'16	5.94016 AU	max. Earth dist.	2070 000 00 03.12	11 -2010	0.13711110
morning rise	2865 Apr 29 03:49	29° Υ 51'38	0.5 1010110	conjunction	2870 Oct 07 01:14	14° £ 31'05	1°03'27
	2865 Apr 29 17:44	0°8		minimum elong	2870 Oct 07 01:14	14° £ 31'04	1°03'28
	2865 Jul 09 07:01	15° 8		morning rise	2870 Oct 20 00:24	17° £ 18'38	
retrograde	2865 Sep 08 14:42	20° 8 35'15		. 8	2870 Dec 26 13:09	0°M	
min. Earth dist.	2865 Nov 06 00:37		3.95631 AU	retrograde	2871 Feb 17 02:02	4°M01'00	
opposition	2865 Nov 07 05:58	15° 8 31'30	-1°24'42	C	2871 Apr 11 21:15	30° ₹ Ω	
**	2865 Nov 11 02:56	15° ₹ 8		opposition	2871 Apr 18 17:38	29° ≏ 07'25	1°30'57
direct	2866 Jan 04 02:27	10° 8 36'29		min. Earth dist.	2871 Apr 19 15:13	29° ₽ 00'29	4.46418 AU
	2866 Feb 25 13:46	15° ∀		direct	2871 Jun 20 09:06	24° ≙ 05'07	
	2866 May 08 23:16	$\Pi^{\circ}0$			2871 Aug 26 06:02	0°M	
evening set	2866 May 10 03:48	0° Ⅱ 16′54		evening set	2871 Oct 24 15:44	11°M32'25	
				max. Earth dist.	2871 Nov 04 18:08	13°M56'44	6.44820 AU
conjunction	2866 May 23 18:26	3° Ⅱ 31′04	-0°45'00				
minimum elong	2866 May 23 18:28	3° Ⅱ 31′05	0°45'00	conjunction	2871 Nov 06 11:57	14°M19'28	0°57'50
max. Earth dist.	2866 May 26 01:09	4° Ⅱ 03'37	5.99374 AU	minimum elong	2871 Nov 06 11:58	14°M19'29	0°57'49
morning rise	2866 Jun 06 11:29	6° Ⅱ 46′20			2871 Nov 09 14:28	15° ™	
retrograde	2866 Oct 15 00:58	26° Ⅱ 51'41		morning rise	2871 Nov 19 05:43	17°M05'26	
min. Earth dist.	2866 Dec 12 01:33	21° ∏ 59'04			2872 Jan 26 14:18	0°⊀	
opposition	2866 Dec 13 13:48	21° ∏ 46'42	-0°43'26	retrograde	2872 Mar 18 19:01	3° ≯ 56'54	
direct	2867 Feb 09 20:45	16° Ⅱ 48'54			2872 May 11 08:57	30°RM₊	
	2867 May 20 17:14	0.22 0.22		opposition	2872 May 18 15:18	29°M04'50	1°11'17
evening set	2867 Jun 16 07:30	5° © 57'09		min. Earth dist.	2872 May 20 02:10	28°M53'43	4.41526 AU
. ,.	20/7 1 20 01 21	0000000	0011114	direct	2872 Jul 20 09:05	24°M03'51	
conjunction	2867 Jun 30 01:24	9°907'01			2872 Sep 24 19:59	0°×7	
minimum elong	2867 Jun 30 01:25	9°907'01	0°11'13	evening set	2872 Nov 23 04:47	11° х 45'29	(2(450 411
behind sun begin	2867 Jun 29 19:20	9°503'32		max. Earth dist.	2872 Dec 03 17:46	14° ₹ 05'34	6.36450 AU
behind sun end	2867 Jun 30 07:30	9°910'30	6 12022 ATT	agniumation	2972 Dag 05 21:40	140.724120	0026122
max. Earth dist. morning rise	2867 Jul 02 06:54 2867 Jul 13 20:22	9° 5 37'49 12° 5 17'02	6.12033 AU	conjunction minimum elong	2872 Dec 05 21:48 2872 Dec 05 21:50	14° ₹ 34'29 14° ₹ 34'30	0°36'23 0°36'24
morning rise	2867 Oct 21 05:53	12° 26 17'02 0° Ω		morning rise	2872 Dec 03 21:30 2872 Dec 18 13:08	14° × '34'30'	0 30 24
asc. node	2867 Oct 27 03:33 2867 Oct 27 23:30	0° Ω 31'03		morning rise	2872 Dec 18 13:08 2873 Feb 20 18:24	0°る	
asc. nouc	2001 OCI 21 23.30	0 063103			2073 1 00 20 10.24	υ O	

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	2884 Jan 04 11:17	0° ∡ ¹			2889 Oct 13 18:28	30° ₹ 8	
retrograde	2884 Mar 23 04:07	8° ∡ 19'44		min. Earth dist.	2889 Nov 16 03:15	26° 8 07'59	3.97848 AU
opposition	2884 May 23 01:21	3° ∡ ¹27'45	1°06'43	opposition	2889 Nov 17 12:01	25° 8 56'50	-1°15'48
min. Earth dist.	2884 May 24 11:57	3° ҂ 16'44	4.40107 AU	direct	2890 Jan 14 09:38	21° 8 01'05	
	2884 Jun 22 03:26	30°RM₊			2890 Apr 02 19:46	Π $^{\circ}0$	
direct	2884 Jul 24 16:19	28°M27'06		evening set	2890 May 20 12:40	10° Ⅲ 33′02	
	2884 Aug 26 07:13	0° ≯ ¹					
evening set	2884 Nov 27 12:47	16° ∡ 12'41		conjunction	2890 Jun 03 04:43	13° Ⅱ 46′20	-0°36'41
max. Earth dist.	2884 Dec 08 02:10	18° ∡ ³33'35	6.34720 AU	minimum elong	2890 Jun 03 04:45	13° Ⅱ 46′21	0°36'41
				max. Earth dist.	2890 Jun 05 12:56	14° Ⅱ 19'30	6.02612 AU
conjunction	2884 Dec 10 05:32	19° ∡ 02'16	0°32'18	morning rise	2890 Jun 16 22:45	17° Ⅱ 00′28	
minimum elong	2884 Dec 10 05:34	19° ∡ 02'17	0°32'18		2890 Aug 17 03:22	0	
morning rise	2884 Dec 22 20:47	21° ₹ 51'20		retrograde	2890 Oct 24 16:02	6° 5 47'42	
	2885 Jan 30 09:27	0°ಕ		min. Earth dist.	2890 Dec 21 18:15	1° © 54'42	4.08960 AU
retrograde	2885 Apr 24 19:23	9° る 27'55		opposition	2890 Dec 23 04:55	1° 5 42'53	-0°28'41
opposition	2885 Jun 24 16:20	4° る 35'37			2891 Jan 05 01:45	30°R∏	
min. Earth dist.	2885 Jun 26 05:14	4° පි 23'50	4.28188 AU	direct	2891 Feb 19 19:13	26° Ⅱ 44'13	
	2885 Aug 09 19:59	30°R ✓			2891 Apr 06 10:55	0	
direct	2885 Aug 25 14:46	29° ∡ 37'04		evening set	2891 Jun 26 06:29	15° © 40'51	
	2885 Sep 10 08:39	0°ਰ					
desc. node	2885 Dec 26 02:29	17° る 13'46		conjunction	2891 Jul 10 00:18	18° © 48'47	
evening set	2885 Dec 29 01:53	17° る 54'27		minimum elong	2891 Jul 10 00:18	18° © 48'47	0°00'53
max. Earth dist.	2886 Jan 08 20:51	20°る23'09	6.20941 AU	behind sun begin	2891 Jul 09 15:55	18° © 44'01	
		_		behind sun end	2891 Jul 10 08:41	18° © 53'32	
conjunction	2886 Jan 10 18:33	20° ろ 49'29		max. Earth dist.	2891 Jul 12 01:55	19° © 17'05	6.16184 AU
minimum elong	2886 Jan 10 18:34	20° ろ 49'30	0°01'28	asc. node	2891 Jul 19 00:14	20° © 51'48	
behind sun begin	2886 Jan 10 10:34	20° ප් 44'54		morning rise	2891 Jul 23 18:34	21° © 56'37	
behind sun end	2886 Jan 11 02:33	20° る 54'05			2891 Aug 30 00:57	0 ° Ω	
morning rise	2886 Jan 23 11:04	23° る 44'43		retrograde	2891 Nov 26 22:17	10° Ω 34'16	
_	2886 Feb 20 13:31	0° ≈		opposition	2892 Jan 25 16:08	5° Ω 31'36	
retrograde	2886 May 29 15:42	12° ≈ 24'15		min. Earth dist.	2892 Jan 24 14:13	5° Ω 40'21	4.23567 AU
opposition	2886 Jul 29 09:10	7° ≈ 30'01		direct	2892 Mar 25 11:00	0°Ω30'23	
min. Earth dist.	2886 Jul 30 10:40	7°≈21'47	4.13451 AU		2892 Jul 12 16:53	15° Ω	
direct	2886 Sep 27 23:52	2° ≈ 33'58		evening set	2892 Jul 30 05:07	18° Ω 47'39	
_	2887 Jan 02 18:24	15° ≈					
evening set	2887 Jan 31 08:51	21°≈31'46		conjunction	2892 Aug 12 19:17	21° Ω 47'44	
max. Earth dist.	2887 Feb 12 04:26	24°≈19'51	6.06530 AU	minimum elong	2892 Aug 12 19:16	21°Ω47'43	0°33'43
	2007.5.1.12.04.14	240 2400	000 (11.4	max. Earth dist.	2892 Aug 13 22:34	22° Ω 02'49	6.30665 AU
conjunction	2887 Feb 13 04:14	24°≈34'00		morning rise	2892 Aug 26 08:00	24° Ω 46'50	
minimum elong	2887 Feb 13 04:12	24°≈33'59	0°36'14	1	2892 Sep 19 17:20	0° Mp	
morning rise	2887 Feb 26 00:54	27°≈37'10		retrograde	2892 Dec 27 07:13	12° m/22'12	1000105
	2887 Mar 08 04:33	0° ∀		opposition	2893 Feb 25 07:04	7° m 23'10	1°08'25
retrograde	2887 Jul 05 20:13	17° ∺ 26'11	1015110	min. Earth dist.	2893 Feb 24 22:18	7° Mp 26'05	4.36747 AU
opposition	2887 Sep 04 03:21	12°) 28'44		direct	2893 Apr 27 10:39	2° Mp 20'40	
min. Earth dist.	2887 Sep 04 09:29		4.00641 AU	evening set	2893 Sep 01 04:28	20° Mp 06'45	
direct	2887 Nov 02 08:34	7°) (34'38			2002 0 14 11 42	220m 50121	0056145
evening set	2888 Mar 06 18:36	27° ₩ 07'48 0° Ƴ		conjunction	2893 Sep 14 11:43	22° M 59'31	0°56'47
	2888 Mar 18 15:36	O Y		minimum elong max. Earth dist.	2893 Sep 14 11:41	22° M 59'30	0°56'47
agniumation	2000 Mar 10 10:40	000017104	0.5011.0		2893 Sep 14 10:19	22° Mp 58'45	6.41545 AU
conjunction	2888 Mar 19 19:48	0° Υ 17'04 0° Υ 17'03		morning rise	2893 Sep 27 16:34	25° Mp 50'58 0° <u>₽</u>	
minimum elong	2888 Mar 19 19:46	0° Υ 22'07	5.96506 AU	ratra arada	2893 Oct 17 07:48		
max. Earth dist. morning rise	2888 Mar 20 04:08 2888 Apr 01 23:36	3° Υ 27'52	3.90300 AU	retrograde opposition	2894 Jan 26 11:53 2894 Mar 27 20:39	12° £ 46'29 7° £ 50'59	1020/15
•		24° \begin{pmatrix}		min. Earth dist.		7° 2 47'55	4.44743 AU
retrograde	2888 Aug 12 03:41 2888 Oct 10 07:28	19° Υ 08'59	3.94613 AU		2894 Mar 28 06:04	7 2 47 33 2° 2 48'19	4.44743 AU
min. Earth dist. opposition		19° Y 08'39		direct	2894 May 29 00:53	2° 2 48°19 20° 2 17'54	
	2888 Oct 11 00:46	19 γ 03 11 14° γ 09'22	-1 34 29	evening set	2894 Oct 02 14:22	20 == 1734	
direct	2888 Dec 08 03:01 2889 Mar 27 06:47	0° 8		conjunction	2894 Oct 15 14:44	23° ≏ 06'07	1°03'34
ovening set				minimum elong			
evening set	2889 Apr 12 21:31	3° 8 56'22		max. Earth dist.	2894 Oct 15 14:45	23° Ω 06'07	1°03'34 6.46050 AU
conjunction	2880 Am 26 06.26	70110101	0°50'44		2894 Oct 14 12:46	22° Ω 52'05	0.40030 AU
conjunction	2889 Apr 26 06:36	7° 8 10'01 7° 8 10'01		morning rise	2894 Oct 28 12:11	25° Ω 52'59	
minimum elong	2889 Apr 26 06:37	7° 8 33'35	0°59'43 5.94979 AU	retrogrado	2894 Nov 17 01:03	0°ጤ 12°ጤ36'03	
max. Earth dist.	2889 Apr 27 21:37	10° 8 25'16	J.747/7 AU	retrograde	2895 Feb 25 14:24		1°27'45
morning rise	2889 May 29 18:54	10° 6 25°16		opposition min. Earth dist.	2895 Apr 27 07:04	7°M43'06	4.45610 AU
	2889 May 29 05:39				2895 Apr 28 08:22	7°MJ35'00	4.43010 AU
retrograda	2889 Aug 24 19:50	0° П 1° П 01'13		direct	2895 Jun 29 00:13	2°M41'15 15°M	
retrograde	2889 Sep 18 20:47	1 110113			2895 Oct 08 13:41	1.J 	

	200531 02 04 42	200 m 11110			2001.14 12 22 15	1.501.2	
evening set	2895 Nov 02 04:43	20°M11'18			2901 May 13 22:17	15° 8	
max. Earth dist.	2895 Nov 13 02:34	22°M33'53	6.43144 AU	morning rise	2901 May 15 21:04	15° 8 28'00	
					2901 Jul 22 23:34	Π $\circ 0$	
conjunction	2895 Nov 14 23:45	22°M58'34	0°53'15	retrograde	2901 Sep 24 20:39	6° Ⅱ 00'53	
minimum elong	2895 Nov 14 23:47	22°M58'35	0°53'16	min. Earth dist.	2901 Nov 22 00:38	1° Ⅲ 07'31	3.98656 AU
morning rise	2895 Nov 27 16:36	25°M44'51		opposition	2901 Nov 23 09:20	0° Д 56′23	-1°10'46
Č	2895 Dec 17 15:10	0° ∡ ¹		11	2901 Nov 30 08:01	30° ₽ ₩	
retrograde	2896 Mar 27 15:44	12° ∡ ¹43'56		direct	2902 Jan 20 08:03	26° 8 00'19	
opposition	2896 May 27 12:40	7°×752'00	1°01'48	uncet	2902 Mar 11 09:50	0°II	
• •	•			. ,			
min. Earth dist.	2896 May 29 00:23	7°× 7 40'37	4.39100 AU	evening set	2902 May 26 12:57	15° Ⅱ 29'57	
direct	2896 Jul 29 03:25	2° ≯ 51'38				_	
evening set	2896 Dec 01 20:33	20° ҂ 39'27		conjunction	2902 Jun 09 05:34	18° Ⅱ 43'02	
max. Earth dist.	2896 Dec 12 10:29	23° ₹ 01'04	6.33480 AU	minimum elong	2902 Jun 09 05:36	18° Ⅱ 43'03	0°32'19
				max. Earth dist.	2902 Jun 11 13:08	19° Ⅱ 15'42	6.03767 AU
conjunction	2896 Dec 14 13:09	23° ∡ ¹29'26	0°28'06	morning rise	2902 Jun 23 00:15	21° Ⅲ 56′52	
minimum elong	2896 Dec 14 13:11	23° ₹ 29'27	0°28'05	-	2902 Jul 29 00:34	0°©	
morning rise	2896 Dec 27 04:16	26° ⊀ 18'58		retrograde	2902 Oct 30 07:05	11° © 37'13	
	2897 Jan 12 23:03	0°ਰ		min. Earth dist.	2902 Dec 27 10:00	6°9544'24	4.10345 AU
ratra ara da		14° ろ 01'23			2902 Dec 28 20:41	6°932'36	
retrograde	2897 Apr 29 09:53		0015105	opposition			-0 2121
opposition	2897 Jun 29 08:22	9° る 08'53	0°17'05	direct	2903 Feb 25 12:40	1°533'34	
min. Earth dist.	2897 Jun 30 19:14	8° る 57'45	4.26791 AU	asc. node	2903 May 31 21:17	13° © 35'31	
direct	2897 Aug 30 02:44	4° る 10'43		evening set	2903 Jul 02 03:28	20°926'48	
desc. node	2897 Nov 06 10:21	10°る40'14					
evening set	2898 Jan 02 12:55	22° る 31'18		conjunction	2903 Jul 15 21:14	23° © 34'02	0°04'15
max. Earth dist.	2898 Jan 13 10:40	25° පි 02'06	6.19503 AU	minimum elong	2903 Jul 15 21:14	23°934'02	0°04'15
				behind sun begin	2903 Jul 15 13:01	23° © 29'23	
conjunction	2898 Jan 15 05:38	25° る 26'58	-0°06'24	behind sun end	2903 Jul 16 05:28	23°938'42	
minimum elong	2898 Jan 15 05:37	25° පි 26'57		max. Earth dist.	2903 Jul 17 20:27	24°900'53	6.17706 AU
-		25° る 20'37	0 00 23		2903 Jul 29 15:07	26°9541'01	0.17700 AC
behind sun begin	2898 Jan 14 22:05			morning rise			
behind sun end	2898 Jan 15 13:09	25° ප 31'17			2903 Aug 13 12:50	$0^{\circ}\Omega$	
morning rise	2898 Jan 27 22:22	28° る 22'53			2903 Nov 21 17:30	15° Ω	
	2898 Feb 04 00:11	0° ≈		retrograde	2903 Dec 02 09:47	15° Ω 11'14	
	2898 Apr 26 20:07	15° ≈			2903 Dec 13 00:16	15° ŖΩ	
retrograde	2898 Jun 03 14:10	17° ≈ 09'45		min. Earth dist.	2904 Jan 30 03:35	10° Ω 16′55	4.25078 AU
	2898 Jul 11 14:48	15°R≈		opposition	2904 Jan 31 03:00	10° Ω 09'02	0°32'18
opposition	2898 Aug 03 06:23	12°≈15'10	-0°35'59	direct	2904 Mar 31 02:43	5° Ω 07'37	
min. Earth dist.	2898 Aug 04 06:41	12° ≈ 07'19	4.12062 AU		2904 Jun 25 21:47	15° Ω	
direct	2898 Oct 02 18:25	7°≈19'24	2002110	evening set	2904 Aug 04 21:13	23° Ω 21'27	
uncci	2898 Dec 14 22:46	7 ≈1924 15°≈		evening set	2904 Aug 04 21.13	23 062121	
					2004 4 10 10 40	260 020120	0027141
evening set	2899 Feb 05 00:33	26° ≈ 20'36		conjunction	2904 Aug 18 10:40	26° Ω 20'38	0°37'41
				minimum elong	2904 Aug 18 10:38	26° Ω 20'37	0°37'40
conjunction	2899 Feb 17 20:29	29° ≈ 23'35	-0°40'16	max. Earth dist.	2904 Aug 19 11:09	26° Ω 34'08	6.32053 AU
minimum elong	2899 Feb 17 20:27	29° ≈ 23'33	0°40'16	morning rise	2904 Aug 31 22:29	29° Ω 18'47	
max. Earth dist.	2899 Feb 16 23:44	29° ≈ 11'13	6.05315 AU		2904 Sep 04 01:59	0° m)	
	2899 Feb 20 09:37	0° ∀		retrograde	2905 Jan 01 12:10	16° m 48'17	
morning rise	2899 Mar 02 17:53	2° 升 27'36		opposition	2905 Mar 02 14:08	11° m)49'42	1°12'46
retrograde	2899 Jul 10 21:33	22° ℋ 23'05		min. Earth dist.	2905 Mar 02 06:45	11° m/52'08	4.37932 AU
opposition	2899 Sep 09 04:02	17°) €25'11	-1°19'45	direct	2905 May 02 20:40	6° m) 47'05	
min. Earth dist.	2899 Sep 09 06:58		3.99737 AU	evening set	2905 Sep 06 15:36	24° m/30'39	
direct	2899 Nov 07 04:22	17 X 2413	3.77131 AU	ovening set	2703 Sep 00 13.30	2 iiy∋039	
direct					2005 0 10 21 54	270m 22140	0050142
	2900 Mar 03 19:33	0° Υ		conjunction	2905 Sep 19 21:54	27° m 22'40	0°58'42
evening set		ついいいんコフフ		minimum alana		つつっていっつい	0°58'42
	2900 Mar 12 15:21	2° Y 06′37		minimum elong	2905 Sep 19 21:53	27° m 22'39	
	2900 Mar 12 15:21	2 10037		max. Earth dist.	2905 Sep 19 21:53 2905 Sep 19 17:50	27° m/20'28	6.42440 AU
conjunction	2900 Mar 12 15:21 2900 Mar 25 17:22	5°Υ16'31	-1°00'47	_	=		6.42440 AU
conjunction minimum elong				_	2905 Sep 19 17:50	27° m/20'28	6.42440 AU
•	2900 Mar 25 17:22	5° Ƴ 16'31		max. Earth dist.	2905 Sep 19 17:50 2905 Oct 02 00:51	27° m/20′28 0° <u>Ω</u>	6.42440 AU
minimum elong max. Earth dist.	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29	5° Υ 16'31 5° Υ 16'30	1°00'47	max. Earth dist. morning rise retrograde	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38	27° നൂ20'28 0° <u>ഫ</u> 0° <u>ഫ</u> 13'19	6.42440 AU 1°31'18
minimum elong max. Earth dist. morning rise	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16	5°Y16'31 5°Y16'30 5°Y23'15 8°Y28'03	1°00'47	max. Earth dist. morning rise retrograde opposition	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24	27° № 20'28 0° Ω 0° Ω 13'19 17° Ω 05'36 12° Ω 10'29	1°31'18
minimum elong max. Earth dist. morning rise retrograde	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58	5°Υ16'31 5°Υ16'30 5°Υ23'15 8°Υ28'03 29°Υ07'20	1°00'47 5.95982 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist.	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06	27° № 20'28 0° Ω 0° Ω 13'19 17° Ω 05'36 12° Ω 10'29 12° Ω 06'42	
minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23	5°Υ16'31 5°Υ16'30 5°Υ23'15 8°Υ28'03 29°Υ07'20 24°Υ11'59	1°00'47 5.95982 AU 3.94531 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11	27° \$\mathbb{D}\$20'28 0° \omega\$ 0° \omega\$13'19 17° \omega\$05'36 12° \omega\$10'29 12° \omega\$06'42 7° \omega\$07'52	1°31'18
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40	5°Υ16'31 5°Υ16'30 5°Υ23'15 8°Υ28'03 29°Υ07'20 24°Υ11'59 24°Υ05'30	1°00'47 5.95982 AU 3.94531 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist.	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06	27° № 20'28 0° Ω 0° Ω 13'19 17° Ω 05'36 12° Ω 10'29 12° Ω 06'42	1°31'18
minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24	5°Y16'31 5°Y16'30 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31	1°00'47 5.95982 AU 3.94531 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33	27° \$\mu 20'28\\ 0° \oldots 0° \oldots 13'19\\ 17° \oldots 05'36\\ 12° \oldots 10'29\\ 12° \oldots 06'42\\ 7° \oldots 07'52\\ 24° \oldots 36'14\\	1°31'18 4.45281 AU
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24 2901 Mar 10 18:33	5°Y16'31 5°Y16'30 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31 0°8	1°00'47 5.95982 AU 3.94531 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33	27° \$\mu_20'28\$ 0° \$\Omega\$ 0° \$\Omega\$ 13'19 17° \$\Omega\$05'36 12° \$\Omega\$10'29 12° \$\Omega\$06'42 7° \$\Omega\$07'52 24° \$\Omega\$36'14 27° \$\Omega\$24'03	1°31'18 4.45281 AU 1°03'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24	5°Y16'31 5°Y16'30 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31	1°00'47 5.95982 AU 3.94531 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33	27° \$\mu 20'28\\ 0° \oldots 0° \oldots 13'19\\ 17° \oldots 05'36\\ 12° \oldots 10'29\\ 12° \oldots 06'42\\ 7° \oldots 07'52\\ 24° \oldots 36'14\\	1°31'18 4.45281 AU
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24 2901 Mar 10 18:33	5°Y16'31 5°Y16'30 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31 0°8	1°00'47 5.95982 AU 3.94531 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33	27° \$\mu_20'28\$ 0° \$\Omega\$ 0° \$\Omega\$ 13'19 17° \$\Omega\$05'36 12° \$\Omega\$10'29 12° \$\Omega\$06'42 7° \$\Omega\$07'52 24° \$\Omega\$36'14 27° \$\Omega\$24'03	1°31'18 4.45281 AU 1°03'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24 2901 Mar 10 18:33	5°Y16'31 5°Y16'30 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31 0°8	1°00'47 5.95982 AU 3.94531 AU -1°34'09	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33 2906 Oct 20 20:59 2906 Oct 20 20:59	27° \$\mathbb{n}\$20'28 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$13'19 17° \$\oldsymbol{\Omega}\$05'36 12° \$\oldsymbol{\Omega}\$10'29 12° \$\oldsymbol{\Omega}\$06'42 7° \$\oldsymbol{\Omega}\$07'52 24° \$\oldsymbol{\Omega}\$36'14 27° \$\oldsymbol{\Omega}\$24'03 27° \$\oldsymbol{\Omega}\$24'03	1°31'18 4.45281 AU 1°03'05 1°03'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24 2901 Mar 10 18:33 2901 Apr 18 21:33	5°Y16'31 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31 0°B 8°B58'27	1°00'47 5.95982 AU 3.94531 AU -1°34'09	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33 2906 Oct 20 20:59 2906 Oct 20 20:59 2906 Oct 19 15:06	27° \$\mu_20'28\$ 0° \$\Omega\$ 0° \$\Omega\$ 13'19 17° \$\Omega\$05'36 12° \$\Omega\$10'29 12° \$\Omega\$06'42 7° \$\Omega\$07'52 24° \$\Omega\$36'14 27° \$\Omega\$24'03 27° \$\Omega\$24'03 27° \$\Omega\$07'55	1°31'18 4.45281 AU 1°03'05 1°03'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	2900 Mar 25 17:22 2900 Mar 25 17:21 2900 Mar 26 04:29 2900 Apr 07 22:16 2900 Aug 18 04:58 2900 Oct 16 06:23 2900 Oct 17 01:40 2900 Dec 14 02:24 2901 Mar 10 18:33 2901 Apr 18 21:33	5°Y16'31 5°Y23'15 8°Y28'03 29°Y07'20 24°Y11'59 24°Y05'30 19°Y11'31 0°B 8°B58'27	1°00'47 5.95982 AU 3.94531 AU -1°34'09	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	2905 Sep 19 17:50 2905 Oct 02 00:51 2905 Oct 03 01:37 2906 Jan 31 16:38 2906 Apr 02 02:24 2906 Apr 02 14:06 2906 Jun 03 10:11 2906 Oct 07 21:33 2906 Oct 20 20:59 2906 Oct 20 20:59 2906 Oct 19 15:06 2906 Nov 01 22:01	27° M20'28 0° \(\Omega\) 20'28 0° \(\Omega\) 13'19 17° \(\Omega\) 05'36 12° \(\Omega\) 10'29 12° \(\Omega\) 06'42 7° \(\Omega\) 07'52 24° \(\Omega\) 36'14 27° \(\Omega\) 24'03 27° \(\Omega\) 24'03 27° \(\Omega\) 07'55 0° M.	1°31'18 4.45281 AU 1°03'05 1°03'05

min. Earth dist.

2912 Oct 21 10:26

29°Υ28'33 3.94354 AU

2918 Oct 17 18:04

0°M

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min. Earth dist.	2930 Apr 11 04:16	20° ჲ 33'30	4.46374 AU	evening set	2936 Mar 28 04:39	17° Ƴ 57'25	
direct	2930 Jun 12 00:05	15° £ 36'31			_,_,_,		
	2930 Oct 01 22:21	0°M		conjunction	2936 Apr 10 10:08	21° Y ′09'42	-1°02'33
evening set	2930 Oct 01 22:21 2930 Oct 16 07:44	3°M02'53		minimum elong	2936 Apr 10 10:09	21° Υ '09'42	
max. Earth dist.	2930 Oct 27 17:35	5°M30'38	6.46017 AU	max. Earth dist.	2936 Apr 11 13:09	21° Υ 26'05	5.94286 AU
max. Earth dist.	2930 Oct 27 17.33	3 1163036	0.4001 / AU	morning rise	2936 Apr 23 18:34	24° Y 23'36	3.94280 AU
aamiumatiam	2020 Oat 20 05:20	5°M50'08	1°01'10	morning rise	-	0° 8	
conjunction	2930 Oct 29 05:39				2936 May 17 14:11		
minimum elong	2930 Oct 29 05:40	5°M50'09	1°01'11		2936 Aug 25 14:16	15° 8	
morning rise	2930 Nov 11 00:51	8°M36'11		retrograde	2936 Sep 03 06:37	15° 8 07'30	
	2930 Dec 11 19:57	15°M			2936 Sep 11 21:41	15°₹ 8	1000100
retrograde	2931 Mar 11 05:52	25°M21'38		opposition	2936 Nov 01 23:00	10° 8 04'15	
opposition	2931 May 11 01:40	20°M29'11	1°19'30	min. Earth dist.	2936 Oct 31 20:08	10° 8 13'21	3.95089 AU
min. Earth dist.	2931 May 12 08:29	20°M19'21	4.43898 AU	direct	2936 Dec 29 20:25	5° 8 09'38	
direct	2931 Jul 12 19:57	15°M27'43			2937 Mar 22 01:21	15° 8	
	2931 Nov 01 16:13	0° ⊼		evening set	2937 May 04 19:11	24° 8 52'17	
evening set	2931 Nov 15 19:29	3° ≯ 02'48					
max. Earth dist.	2931 Nov 26 12:07	5° ₹ 23'41	6.39832 AU	conjunction	2937 May 18 08:35	28° 8 06'29	-0°49'15
				minimum elong	2937 May 18 08:37	28° 8 06'31	0°49'15
conjunction	2931 Nov 28 13:18	5° ∡ ¹50'48	0°44'18	max. Earth dist.	2937 May 20 12:41	28° 8 37'38	5.98075 AU
minimum elong	2931 Nov 28 13:19	5° ∡ 750'49	0°44'17		2937 May 26 06:44	$\Pi^{\circ}0$	
morning rise	2931 Dec 11 04:59	8° ∡ ³38′00		morning rise	2937 Jun 01 00:38	1° Ⅲ 21'56	
retrograde	2932 Apr 10 22:29	25° ₹ '52'08		retrograde	2937 Oct 10 00:42	21° Ⅲ 35'54	
opposition	2932 Jun 10 20:47	21° ₹ 00'11	0°45'00	min. Earth dist.	2937 Dec 07 02:03	16° Ⅱ 43'15	4.03193 AU
min. Earth dist.	2932 Jun 12 10:38	20° х 48′08	4.34332 AU	opposition	2937 Dec 08 14:08	16° Ⅲ 30'58	-0°51'46
direct	2932 Aug 12 05:34	16° х 00'34		direct	2938 Feb 04 17:40	11° Ⅲ 33'42	
uncet	2932 Nov 27 13:56	0°ਰ		ancer	2938 Jun 07 15:25	0°95	
evening set	2932 Dec 15 19:33	0 ੱ 4° ਰ 01'31		evening set	2938 Jun 11 02:24	0°\$47'44	
max. Earth dist.	2932 Dec 15 19:35 2932 Dec 26 08:39	4 30131 6° 3 24'41	6.27606 AU	evening set	2936 Juli 11 02.24	0 34/44	
max. Earm dist.	2932 Dec 20 08.39	0 02441	0.27000 AU	agniumation	2938 Jun 24 20:01	200550122	0017125
	2022 D 20 11 52	60=52145	001.412.6	conjunction		3°958'32	
conjunction	2932 Dec 28 11:52	6° る 53'45		minimum elong	2938 Jun 24 20:02	3°958'33	
minimum elong	2932 Dec 28 11:53	6° る 53'45	0°14′27	max. Earth dist.	2938 Jun 27 02:42	4°930'13	6.09687 AU
behind sun begin	2932 Dec 28 08:07	6° る 51'38		morning rise	2938 Jul 08 15:03	7°509'42	
behind sun end	2932 Dec 28 15:39	6° る 55'53		retrograde	2938 Nov 13 09:51	26° © 19'03	
morning rise	2933 Jan 10 03:29	9° る 45'50		asc. node	2938 Dec 29 13:28	23° © 02'36	
retrograde	2933 May 14 18:00	27° る 54'41		min. Earth dist.	2939 Jan 10 18:15	21° © 25'44	4.16980 AU
desc. node	2933 Jun 08 09:54	26° る 58'34		opposition	2939 Jan 12 01:25	21° © 15'09	0°01'51
opposition	2933 Jul 14 13:47	23° る 01'32	-0°04'51	direct	2939 Mar 12 07:11	16° © 14'59	
min. Earth dist.	2933 Jul 15 22:10		4.20165 AU		2939 Jun 24 20:26	0 $^{\circ}\Omega$	
direct	2933 Sep 13 20:19	18° පි 04'17		evening set	2939 Jul 16 21:29	4° Ω 49'03	
	2933 Dec 18 06:07	0° ≈					
evening set	2934 Jan 17 05:36	6° ≈ 43'50		conjunction	2939 Jul 30 13:56	7° Ω 52'42	0°19'14
				minimum elong	2939 Jul 30 13:55	7° Ω 52'41	0°19'13
conjunction	2934 Jan 29 23:31	9° ≈ 42'47	-0°21'15	max. Earth dist.	2939 Aug 01 05:47	8° Ω 15′01	6.24505 AU
minimum elong	2934 Jan 29 23:30	9° ≈ 42'46	0°21'16	morning rise	2939 Aug 13 05:31	10° Ω 55'41	
max. Earth dist.	2934 Jan 28 12:17	9° ≈ 22'07	6.12706 AU	Č	2939 Aug 31 21:13	15° Ω	
morning rise	2934 Feb 11 17:53	12° ≈ 42'19		retrograde	2939 Dec 15 12:33	28° Ω 56'24	
	2934 Feb 21 15:40	15° ≈		opposition	2940 Feb 13 09:44	23° Ω 55'41	0°51'23
	2934 May 14 16:37	0° ∀		min. Earth dist.	2940 Feb 12 16:19	24°Ω01'30	4.31459 AU
retrograde	2934 Jun 20 00:36	2°) (01'13		direct	2940 Apr 13 23:08	18° Ω 53'38	
renogrado	2934 Jul 26 11:42	30°R≈		arrott	2940 Jul 16 22:21	0° my	
opposition	2934 Aug 19 11:29	27°≈05'27	0°56'36	evening set	2940 Aug 18 17:05	6° Mp 51'25	
min. Earth dist.	2934 Aug 20 03:58		4.05691 AU	evening set	2940 Aug 16 17.03	0 11/1/23	
	•		4.03091 AU		2040 9 01 02-22	00 m 47100	0040112
direct	2934 Oct 18 07:13	22°≈10'39		conjunction	2940 Sep 01 03:32	9° Mp 47'08	0°48'13
	2934 Dec 30 13:41	0°) (minimum elong	2940 Sep 01 03:30	9° Mp 47'07	0°48'13
evening set	2935 Feb 20 17:01	11°) € 30′28		max. Earth dist.	2940 Sep 01 14:43	9° m 53'14	6.37519 AU
				morning rise	2940 Sep 14 12:04	12° m 41'39	
conjunction	2935 Mar 05 15:09	14°) ₹36′50		retrograde	2941 Jan 14 02:35	29° m 51'13	
minimum elong	2935 Mar 05 15:07	14°) ₹36'48		opposition	2941 Mar 15 07:21	24° m 54'11	1°23'14
max. Earth dist.	2935 Mar 05 07:02		5.99967 AU	min. Earth dist.	2941 Mar 15 08:55	24° m 53'40	4.42148 AU
morning rise	2935 Mar 18 15:34	17°) (44′32		direct	2941 May 16 02:31	19° m 51'24	
	2935 May 13 06:20	0 ° $\mathbf{\Upsilon}$			2941 Aug 14 11:02	0∘ ত	
retrograde	2935 Jul 27 23:20	8° Y 05′22		evening set	2941 Sep 19 17:11	7° ჲ 25'39	
opposition	2935 Sep 26 01:26	3° Y 05'49	-1°30'11				
min. Earth dist.	2935 Sep 25 17:44	3° Y 08'22	3.96038 AU	conjunction	2941 Oct 02 20:35	10° ≏ 15′26	1°02'31
	2935 Oct 21 08:38	30° ₹		minimum elong	2941 Oct 02 20:35	10° ≏ 15′26	1°02'31
direct	2935 Nov 23 12:58	28°) 12′12		max. Earth dist.	2941 Oct 02 05:04	10° ჲ 07'03	6.45073 AU
	2935 Dec 26 10:55	$0^{\circ}\mathbf{\Upsilon}$		morning rise	2941 Oct 15 21:05	13° ჲ 03'50	
				-			

2947 Mar 23 16:37

2947 Apr 23 07:55

morning rise

22°**)** 53'27

 $0^{\circ}\Upsilon$

morning rise

2952 Sep 18 23:09

2952 Nov 25 18:25

17° Mp 06'36

0∘**ত**

retrograde	2953 Jan 18 07:26	4° £ 11'53		minimum elong	2958 Feb 08 07:48	19° ≈ 24'29	0°30'36
	2953 Mar 13 20:25	30°R, Mp		morning rise	2958 Feb 21 03:24	22° ≈ 25'54	
opposition	2953 Mar 19 13:27	29° m 15'23	1°25'52	-	2958 Mar 26 14:22	0°) €	
min. Earth dist.	2953 Mar 19 16:59	29° m 14'14	4.42927 AU	retrograde	2958 Jun 30 06:29	12°) €00'50	
direct	2953 May 20 10:55	24° Mp 12'41		opposition	2958 Aug 29 16:04	7°) €04'03	-1°08'24
	2953 Jul 25 05:13	0∘ ⊽		min. Earth dist.	2958 Aug 30 02:48	7° ∺ 00'33	4.03086 AU
evening set	2953 Sep 24 02:25	11° ≏ 45'45		direct	2958 Oct 28 03:55	2°) 09'40	
max. Earth dist.	2953 Oct 06 08:38	14° ≙ 24'10	6.45385 AU	evening set	2959 Mar 02 12:01	21° ¥ 35′52	
	2953 Oct 07 04:44	14° ≙ 35'01	1902100		2050 M 15 11.50	240 W 42145	005(121
conjunction minimum elong	2953 Oct 07 04:44 2953 Oct 07 04:44	14° 2 235'01	1°03'09 1°03'10	conjunction minimum elong	2959 Mar 15 11:50 2959 Mar 15 11:49	24°) 43'45 24°) 43'44	
morning rise	2953 Oct 07 04:44 2953 Oct 20 04:28	14 ≗ 33 01 17° £ 22'59	1 03 10	max. Earth dist.	2959 Mar 15 12:50	24 X 43 44 24° X 44'21	5.98175 AU
morning rise	2953 Oct 20 04.28 2953 Dec 26 02:23	0°M		morning rise	2959 Mar 28 14:06	24 \(\frac{44}{21}\) 27°\(\frac{1}{53}\) 6	3.96173 AU
retrograde	2954 Feb 17 09:01	4°ML07'06		morning rise	2959 Apr 06 11:05	27 γ (33 00	
retrograde	2954 Apr 12 21:30	4 11€07 00 30°RΩ		retrograde	2959 Aug 07 10:33	18° Y 22'44	
opposition	2954 Apr 18 22:40	29° £ 13'31	1°30'52	opposition	2959 Oct 06 09:35	13° Υ 22'08	-1°33'28
min. Earth dist.	2954 Apr 19 20:05	29° ⊆ 06'37	4.46103 AU	min. Earth dist.	2959 Oct 05 05:33 2959 Oct 05 20:43		3.95286 AU
direct	2954 Jun 20 13:40	24° £ 11'17	1.10105110	direct	2959 Dec 03 15:39	8° Υ 28'26	3.93200710
direct	2954 Aug 25 17:49	0°M		evening set	2960 Apr 07 08:08	28° Υ 14'28	
evening set	2954 Oct 24 20:40	11°ML39'30		evening sec	2960 Apr 14 15:01	0°8	
max. Earth dist.	2954 Nov 05 01:44	14°ML05'13	6.44784 AU		2,001.pr 1. 10.01	· O	
				conjunction	2960 Apr 20 15:41	1° 8 27'34	-1°01'18
conjunction	2954 Nov 06 17:20	14°M26'44	0°57'59	minimum elong	2960 Apr 20 15:42		
minimum elong	2954 Nov 06 17:21	14°M26'45	0°57'58	max. Earth dist.	2960 Apr 22 00:46	_	5.94614 AU
Č	2954 Nov 09 06:30	15° M ₊		morning rise	2960 May 04 02:25	4° 8 42'20	
morning rise	2954 Nov 19 11:17	17° M .12'49		C	2960 Jun 18 12:55	15° 8	
C	2955 Jan 25 23:23	0° ∡ ¹		retrograde	2960 Sep 13 09:33	25° 8 22'34	
retrograde	2955 Mar 19 23:13	4° ≯ 04'06		min. Earth dist.	2960 Nov 10 19:17	20° 8 28'52	3.96484 AU
Č	2955 May 13 12:46	30° ₹M ₊		opposition	2960 Nov 12 01:23	20° 8 18'39	-1°21'24
opposition	2955 May 19 19:58	29°M12'01	1°11'50	direct	2961 Jan 08 22:09	15° 8 23'24	
min. Earth dist.	2955 May 21 04:36	29°MJ01'36	4.41814 AU		2961 Apr 23 09:26	$\Pi^{\circ}0$	
direct	2955 Jul 21 12:19	24°ML11'07		evening set	2961 May 14 23:56	5° Ⅱ 00'49	
	2955 Sep 25 07:26	0°⊀					
evening set	2955 Nov 24 10:04	11° ₹ 51'51		conjunction	2961 May 28 15:06	8° Ⅱ 14'44	-0°41'54
max. Earth dist.	2955 Dec 05 00:59	14° ≯ 12'48	6.37070 AU	minimum elong	2961 May 28 15:08	8° Ⅱ 14'46	0°41'55
				max. Earth dist.	2961 May 30 21:26	8° Ⅱ 46'59	6.00402 AU
conjunction	2955 Dec 07 03:09	14° ∡ °40′39	0°37'00	morning rise	2961 Jun 11 08:30	11° Ⅱ 29'40	
minimum elong	2955 Dec 07 03:10	14° ≯ ′40'40	0°37'00		2961 Sep 19 04:21	0 \circ \odot	
morning rise	2955 Dec 19 18:31	17° ∡ 28'50		retrograde	2961 Oct 19 16:33	1° 5 29'37	
	2956 Feb 21 11:54	0°₹			2961 Nov 18 20:46	30°RⅡ	
retrograde	2956 Apr 20 04:30	4° ප 55'07		min. Earth dist.	2961 Dec 16 17:41		4.06173 AU
opposition	2956 Jun 20 02:09	0° ප 03'00	0°32'10	opposition	2961 Dec 18 04:36	26° Ⅱ 24'45	-0°37'56
	2956 Jun 20 11:34	30°R. ✓		direct	2962 Feb 14 14:03	21° Ⅱ 26'39	
min. Earth dist.	2956 Jun 21 15:12	29° ₹ 51'11	4.31059 AU	_	2962 May 02 23:35	0°€	
direct	2956 Aug 21 05:20	25° ∡ 04'04		evening set	2962 Jun 21 01:01	10° © 32'03	
	2956 Oct 19 09:07	0°る					
evening set	2956 Dec 24 16:38	13°る13'18	C 24101 ATT	conjunction	2962 Jul 04 18:59	13°541'28	
max. Earth dist.	2957 Jan 04 09:30	15°039'45	6.24101 AU	minimum elong	2962 Jul 04 19:00 2962 Jul 04 11:22	13°941'29	0°07'21
conjunction	2957 Jan 06 09:03	16° る 06'58	0°04'43	behind sun begin behind sun end	2962 Jul 04 11:22 2962 Jul 05 02:39	13° © 37'07 13° © 45'51	
minimum elong	2957 Jan 06 09:03	16 306 38 16° 3 06'57	0°04'42	max. Earth dist.	2962 Jul 06 22:54	13 \$34331 14°9311'18	6.13074 AU
behind sun begin	2957 Jan 06 01:15	16°る00'37	0 04 42	morning rise	2962 Jul 18 13:50	14 S11 18 16°S50'59	0.13074 AU
behind sun end	2957 Jan 06 01:15	16 30231 16°311'24		morning rise	2962 Sep 20 22:21	0° Ω	
morning rise	2957 Jan 00 10:31 2957 Jan 19 01:01	19° ප 00'39		asc. node	2962 Sep 21 02:51	0° Ω 01'52	
desc. node	2957 Feb 27 01:08	27° る 27'50		retrograde	2962 Nov 22 10:39	5°Ω43'11	
acse. Houe	2957 Mar 12 07:42	27 3 27 30 0° ≈		min. Earth dist.	2963 Jan 19 22:38	0° Ω 49'35	4.20444 AU
retrograde	2957 May 24 12:40	7°≈25'48		opposition	2963 Jan 21 03:01	0° Ω 39'59	
opposition	2957 Jul 24 07:49	2° ≈ 32'01	-0°19'44	· F F	2963 Jan 26 01:40	30°Rூ	
min. Earth dist.	2957 Jul 25 11:55	2°≈22'58	4.16669 AU	direct	2963 Mar 21 15:28	25°939'11	
	2957 Aug 14 00:24	30°RZ			2963 May 14 22:56	0°Ω	
direct	2957 Sep 23 05:18	27° ප 35'31		evening set	2963 Jul 26 09:47	14° Ω 04'47	
	2957 Nov 01 21:11	0° ≈		-	2963 Jul 30 13:29	15° Ω	
	2958 Jan 20 13:18	15° ≈					
evening set	2958 Jan 26 13:13	16° ≈ 23'54		conjunction	2963 Aug 09 01:02	17° Ω 06'32	0°28'19
max. Earth dist.	2958 Feb 07 03:08	19° ≈ 07'33	6.09515 AU	minimum elong	2963 Aug 09 01:01	17° Ω 06'31	0°28'19
				max. Earth dist.	2963 Aug 10 09:36	17° Ω 24'40	6.27784 AU
conjunction	2958 Feb 08 07:49	19° ≈ 24'30	-0°30'37	morning rise	2963 Aug 22 15:05	20° Ω 07′26	

	2963 Oct 09 13:33	0° m		behind sun end	2969 Jan 11 03:03	20° る 46'32	
retrograde	2963 Dec 24 03:52	7° m) 54'03		morning rise	2969 Jan 23 11:22	23° る 36'36	
opposition	2964 Feb 22 01:58	2° m 54'18	1°02'15		2969 Feb 21 07:11	0° ≈	
min. Earth dist.	2964 Feb 21 13:33	2° m 58'25	4.34314 AU	retrograde	2969 May 29 11:36	12° ≈ 10'51	
	2964 Mar 16 11:19	30°R Ω		opposition	2969 Jul 29 05:00	7° ≈ 16'44	-0°27'05
direct	2964 Apr 22 23:35	27° Ω 51'56		min. Earth dist.	2969 Jul 30 08:21	7° ≈ 07'55	4.14667 AU
	2964 May 30 22:38	0° m		direct	2969 Sep 27 23:15	2° ≈ 20'30	
evening set	2964 Aug 27 18:31	15°Mp43'39			2970 Jan 03 21:03	15° ≈	
				evening set	2970 Jan 31 05:34	21° ≈ 14′29	
conjunction	2964 Sep 10 03:09	18° m 37'41	0°53'46	max. Earth dist.	2970 Feb 11 22:38	24° ≈ 00'40	6.07612 AU
minimum elong	2964 Sep 10 03:07	18° ™ 37'40	0°53'45				
max. Earth dist.	2964 Sep 10 07:29	18° Mp 40'03	6.39740 AU	conjunction	2970 Feb 13 00:43	24° ≈ 16′07	-0°35'02
morning rise	2964 Sep 23 09:32	21°Mp30'27		minimum elong	2970 Feb 13 00:41	24°≈16′06	0°35'02
	2964 Nov 03 23:36	0∘ ত		morning rise	2970 Feb 25 21:05	27°≈18'41	
retrograde	2965 Jan 22 11:59	8° Ω 31'48		_	2970 Mar 09 09:10	0° ∀	
opposition	2965 Mar 23 19:12	3° £ 35'38	1°27'57	retrograde	2970 Jul 05 10:27	17°) €02'50	1010110
min. Earth dist.	2965 Mar 24 00:58	3° Ω 33'45	4.43634 AU	opposition	2970 Sep 03 19:09	12°) €05'36	
t' i	2965 Apr 23 15:30	30°R∭0		min. Earth dist.	2970 Sep 04 02:15	12° 米 03'16 7° 米 11'25	4.01478 AU
direct	2965 May 24 19:33	28° m/32'52		direct	2970 Nov 02 01:21	/° K 11'25 26° X 42'18	
avanina aat	2965 Jun 25 08:46	0° ჲ 16° ჲ 04'25		evening set	2971 Mar 07 11:46	20° π 42′18	
evening set	2965 Sep 28 10:19	10 == 04 23		conjunction	2971 Mar 20 12:30	29°) 51′09	0050127
conjunction	2965 Oct 11 11:52	18° ≙ 53'14	1003'25	minimum elong	2971 Mar 20 12:30 2971 Mar 20 12:28	29° X 51'08	0°58'36
minimum elong	2965 Oct 11 11:52 2965 Oct 11 11:52	18° ⊆ 53'14	1°03'25	max. Earth dist.	2971 Mar 20 12:28 2971 Mar 20 17:25	29° X 51'08	5.97006 AU
max. Earth dist.	2965 Oct 10 14:33	18° ⊆ 3314	6.45706 AU	max. Earth dist.	2971 Mar 21 03:08	0° Υ	3.57000710
morning rise	2965 Oct 24 10:30	21° Ω 40'40	0.13700110	morning rise	2971 Apr 02 15:54	3°Υ01'32	
morning rise	2965 Dec 04 10:36	0°M		retrograde	2971 Aug 12 17:32	23°Y36'29	
retrograde	2966 Feb 21 13:04	8°M23'55		opposition	2971 Oct 11 15:28	18° Y '35'21	-1°34'05
opposition	2966 Apr 23 04:43	3°M30'31	1°29'32	min. Earth dist.	2971 Oct 11 00:00		3.94693 AU
min. Earth dist.	2966 Apr 24 03:10	3°M23'18	4.46005 AU	direct	2971 Dec 08 19:14	13° Y '41'32	
	2966 May 23 13:13	30° ₹ Ω			2972 Mar 28 21:25	0°8	
direct	2966 Jun 24 20:39	28° ≏ 28'25		evening set	2972 Apr 12 12:56	3° 8 29'02	
	2966 Jul 27 10:09	0° M					
	2966 Oct 24 16:53	15°M		conjunction	2972 Apr 25 21:50	6° 8 42'43	-0°59'56
evening set	2966 Oct 29 02:34	15°M56'50		minimum elong	2972 Apr 25 21:51	6° 8 42'44	0°59'56
max. Earth dist.	2966 Nov 09 03:50	18° M20'48	6.44238 AU	max. Earth dist.	2972 Apr 27 12:06	7° と 05'52	5.94665 AU
				morning rise	2972 May 09 09:37	9° 8 57'58	
conjunction	2966 Nov 10 22:24	18°M43'59	0°55'54		2972 May 30 19:25	15° 8	
minimum elong	2966 Nov 10 22:25	18°M44'00	0°55'54		2972 Aug 30 09:20	0°Щ	
morning rise	2966 Nov 23 15:55	21°M30'04		retrograde	2972 Sep 18 15:29	0°∏36′20	
	2967 Jan 04 04:43	0° ∡			2972 Oct 07 16:34	30° ₹8	
retrograde	2967 Mar 24 08:31	8° ₹ 23'57		min. Earth dist.	2972 Nov 15 21:40		3.97189 AU
opposition	2967 May 24 04:56	3° √ 31'54	1°07'22	opposition	2972 Nov 17 04:59	25° 8 32'13	-1°16'48
min. Earth dist.	2967 May 25 15:30	3° ∡ 720'52	4.40815 AU	direct	2973 Jan 14 02:11	20° ႘ 36'42	
direct	2967 Jun 24 01:21 2967 Jul 25 21:38	30°RM 28°M31'08		evening set	2973 Apr 04 10:34 2973 May 20 05:43	0° П 10° П 11'34	
direct	2967 Aug 26 18:28	20 11631 00 0°×7		evening set	2973 Way 20 03.43	10 ш11 34	
evening set	2967 Nov 28 16:23	0 ^ 16° √ 14'18		conjunction	2973 Jun 02 21:28	13° Ⅱ 25'13	-0°37'39
max. Earth dist.	2967 Dec 09 06:40	18° ₹ 35'21	6.35676 AU	minimum elong	2973 Jun 02 21:31	13° ∏ 25'15	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			max. Earth dist.	2973 Jun 05 04:24	13° ∏ 57'42	
conjunction	2967 Dec 11 09:18	19° ∡ °03'33	0°33'01	morning rise	2973 Jun 16 15:37	16° Ⅱ 39'50	
minimum elong	2967 Dec 11 09:20	19° ₹ 03'34	0°33'01	Ü	2973 Aug 18 14:07	0∘ ©	
morning rise	2967 Dec 24 00:30	21° ₹ 52'14		retrograde	2973 Oct 24 12:25	6° 9 31'50	
-	2968 Jan 31 13:47	0°ප		min. Earth dist.	2973 Dec 21 14:00	1° 5 39'14	4.07926 AU
retrograde	2968 Apr 24 17:27	9° る 24'45		opposition	2973 Dec 23 01:42	1° 5 27'04	-0°30'26
opposition	2968 Jun 24 16:17	4° る 32'26	0°25'25		2974 Jan 02 21:32	30°RⅡ	
min. Earth dist.	2968 Jun 26 04:04	4° පි 21'01	4.29335 AU	direct	2974 Feb 19 13:29	26° Ⅱ 28'36	
	2968 Aug 08 19:06	30°R. ✓			2974 Apr 08 02:21	0 \circ \odot	
direct	2968 Aug 25 15:16	29° ∡ ³33'47		evening set	2974 Jun 26 02:39	15° © 28'46	
	2968 Sep 11 13:36	0°ಕ					
evening set	2968 Dec 29 02:37	17° る 47'32		conjunction	2974 Jul 09 20:35	18° © 37'13	
desc. node	2969 Jan 07 11:51	19° ප් 56'25		minimum elong	2974 Jul 09 20:37	18°537'14	0°02'08
max. Earth dist.	2969 Jan 08 21:33	20° る 15'48	6.22181 AU	behind sun begin	2974 Jul 09 12:14	18°532'27	
	20/01 10 10 0	20074	0000110	behind sun end	2974 Jul 10 05:00	18°542'00	(15170 ***
conjunction	2969 Jan 10 19:06	20°る41'59		max. Earth dist.	2974 Jul 11 23:21	19°506'15	6.15172 AU
minimum elong	2969 Jan 10 19:07	20°る41'59	0~00.18	morning rise	2974 Jul 23 14:58	21°5645'35	
behind sun begin	2969 Jan 10 11:10	20° る 37'27		asc. node	2974 Aug 01 02:03	23° © 39'53	

min. Earth dist.

2992 Jul 05 10:55

13°る26'14 4.24934 AU

asc. node

10°9516'01

2998 Apr 20 11:55

evening set	2998 Jul 06 02:27	25° © 13'53		conjunction minimum elong	3003 Dec 25 06:36 3003 Dec 25 06:37	2°පි23'28 2°පි23'28	0°19'57 0°19'58
conjunction	2998 Jul 19 19:42	28° © 19'59	0°08'20	morning rise	3004 Jan 06 22:05	5° ರ 14'31	
minimum elong	2998 Jul 19 19:42	28° © 19'59	0°08'21	retrograde	3004 May 09 22:27	23° る 12'14	
behind sun begin	2998 Jul 19 12:24	28° © 15'52		opposition	3004 Jul 09 19:04	18° る 19'21	0°04'00
behind sun end	2998 Jul 20 03:00	28° © 24'05		min. Earth dist.	3004 Jul 11 04:57	18° る 08'30	4.22837 AU
max. Earth dist.	2998 Jul 21 17:02	28° © 45'38	6.19799 AU	desc. node	3004 Aug 08 21:21	14° る 51'02	
	2998 Jul 27 04:36	$0^{\circ}\Omega$		direct	3004 Sep 09 07:10	13° る 21'39	
morning rise	2998 Aug 02 13:03	1° Ω 25'46			3005 Jan 04 11:01	0° ≈	
	2998 Oct 10 00:03	15° Ω		evening set	3005 Jan 12 17:00	1° ≈ 53'42	
retrograde	2998 Dec 05 21:32	19° Ω 46'59		max. Earth dist.	3005 Jan 23 19:52	4° ≈ 28'49	6.15418 AU
	2999 Feb 01 20:13	15° Ŗ Ω					
opposition	2999 Feb 03 16:39	14° Ω 45′05	0°37'32	conjunction	3005 Jan 25 10:27	4° ≈ 51'19	-0°15'20
min. Earth dist.	2999 Feb 02 18:36	14° Ω 52′29	4.27120 AU	minimum elong	3005 Jan 25 10:26	4° ≈ 51'18	0°15'21
direct	2999 Apr 04 20:36	9° Ω 43'27		behind sun begin	3005 Jan 25 07:41	4° ≈ 49'42	
	2999 Jun 04 19:19	15° Ω		behind sun end	3005 Jan 25 13:11	4° ≈ 52'54	
evening set	2999 Aug 09 12:55	27° Ω 51'28		morning rise	3005 Feb 07 04:03	7° ≈ 49'21	
	2999 Aug 19 07:27	0° m y			3005 Mar 11 05:26	15° ≈	
				retrograde	3005 Jun 14 18:19	26° ≈ 55′01	
conjunction	2999 Aug 23 01:40	0° ™ 49'35	0°40'34	opposition	3005 Aug 14 07:17	21° ≈ 59'47	-0°48'29
minimum elong	2999 Aug 23 01:38	0° ™ 49'34	0°40'34	min. Earth dist.	3005 Aug 15 03:12	21° ≈ 53′19	4.08199 AU
max. Earth dist.	2999 Aug 23 23:36	1° m 01'38	6.33880 AU	direct	3005 Oct 13 09:38	17° ≈ 04'33	
morning rise	2999 Sep 05 12:32	3°Mp46'35			3006 Jan 19 14:06	0° ∀	
retrograde	3000 Jan 05 19:26	21°Mp09'38		evening set	3006 Feb 15 18:46	6° ∺ 17'11	
opposition	3000 Mar 06 22:52	16° Mp 11'26	1°15'37				
min. Earth dist.	3000 Mar 06 17:32	16° Mp 13'11	4.39416 AU	conjunction	3006 Feb 28 15:53	9° ∺ 22'09	
direct	3000 May 07 08:53	11° T 08'46		minimum elong	3006 Feb 28 15:51	9° ∺ 22'08	0°46'59
evening set	3000 Sep 11 01:36	28° Mp 48'35		max. Earth dist.	3006 Feb 28 01:56	9° ¥ 13'47	6.02024 AU
	3000 Sep 16 14:19	0 ்⊽		morning rise	3006 Mar 13 15:02	12° ∺ 28'22	
					3006 Jun 10 22:40	0° Υ	
conjunction	3000 Sep 24 07:05	1° -2 39'53	0°59'45	retrograde	3006 Jul 22 11:06	2° Y 39'15	
minimum elong	3000 Sep 24 07:04	1° ≏ 39'52	0°59'45		3006 Sep 02 07:29	30° ₹	
max. Earth dist.	3000 Sep 23 22:58	1° ≏ 35'29	6.43455 AU	opposition	3006 Sep 20 15:14	27°) 40′22	
morning rise	3000 Oct 07 10:05	4° Ω 29'50		min. Earth dist.	3006 Sep 20 11:54	27°) 41′29	3.97388 AU
retrograde	3001 Feb 04 22:23	21° Ω 19'17		direct	3006 Nov 18 07:53	22°) 46′38	
opposition	3001 Apr 06 09:01	16° ≏ 24'27	1°31'26		3007 Jan 26 12:07	0°Υ	
min. Earth dist.	3001 Apr 06 23:16	16° Ω 19'50	4.45783 AU	evening set	3007 Mar 23 21:58	12° Y ′28′25	
direct	3001 Jun 07 18:56	11° Ω 21'49				. ==000======	
evening set	3001 Oct 12 04:33	28° Ω 49'19		conjunction	3007 Apr 06 01:59	15° Y 39'46	
To de l'a	3001 Oct 17 15:59	0°M	C 46000 ATT	minimum elong	3007 Apr 06 01:59	15° Υ 39'46	1°02'09
max. Earth dist.	3001 Oct 23 19:06	1°11619'26	6.46098 AU	max. Earth dist.	3007 Apr 06 23:08	15° Y 52'36	5.94803 AU
	2001 0 + 25 02 22	1070 26150	1000114	morning rise	3007 Apr 19 08:49	18° Y 52'44	
conjunction	3001 Oct 25 03:32	1°M36'58 1°M36'58	1°02'14		3007 Jun 07 17:15	0° 8	
minimum elong	3001 Oct 25 03:32	4°M23'21	1°02'14	retrograde	3007 Aug 29 20:19	9° 8 35'36 4° 8 32'57	1021112
morning rise	3001 Nov 06 23:45 3001 Dec 30 21:34	4 11623 21 15°M		opposition	3007 Oct 28 13:53 3007 Oct 27 14:09	_	3.94695 AU
ratra ara da		21°M07'32		min. Earth dist.	3007 Oct 27 14:09 3007 Dec 11 03:58	4° O 40'37 30° R Υ	3.94693 AU
retrograde opposition	3002 Mar 07 03:02 3002 May 06 21:33	16°M14'52	1022157	direct	3007 Dec 11 03.38 3007 Dec 25 12:47	30 K 1 29° Υ 38'39	
min. Earth dist.	3002 May 08 02:12	16°M05'41		direct	3008 Jan 08 20:25	0° 8	
iiiii. Eartii dist.	3002 May 16 17:58	15°RM	4.44037 AU		3008 Apr 10 17:29	15° 8	
direct	3002 Jul 08 15:26	11°M 13'10		evening set	3008 Apr 29 09:25	19° 8 23'24	
uncet	3002 Jul 08 13:20 3002 Aug 29 23:07	15°M		evening set	3000 Apr 27 07.23	1) 02324	
evening set	3002 Nov 11 17:21	28°M46'09		conjunction	3008 May 12 21:28	22° 8 37'34	-0°52'57
evening set	3002 Nov 17 17:21 3002 Nov 17 08:40	20° ⊼ ⊓		minimum elong	3008 May 12 21:30	22° 8 37'36	
max. Earth dist.	3002 Nov 22 12:26	1° ⋌ ¹07'52	6.41228 AU	max. Earth dist.	3008 May 14 22:02	23° 8 06'42	5.96824 AU
max. Darm dist.	30021101 22 12.20	1 7 07 32	0.11220710	morning rise	3008 May 26 12:23	25° 8 53'07	3.90021710
conjunction	3002 Nov 24 11:48	1° ∡ ³33'53	0°47'59		3008 Jun 13 01:56	0°Ⅱ	
minimum elong	3002 Nov 24 11:49	1° х 33′54	0°47'58	retrograde	3008 Oct 04 22:30	16° Ⅱ 15'29	
morning rise	3002 Nov 24 11:49 3002 Dec 07 03:59	4°×720'42	5 ., 50	min. Earth dist.	3008 Dec 02 00:50	10 H 1323	4.01243 AU
retrograde	3003 Apr 07 12:57	21° × ⁷ 28'21		opposition	3008 Dec 02 00:30	11° I I10'40	
opposition	3003 Jun 07 10:48	16° ₹ 36'25	0°51'52	direct	3009 Jan 30 12:51	6° Ⅱ 13'56	5 57 50
min. Earth dist.	3003 Jun 08 24:00	16° ₹ 24'35	4.36304 AU	evening set	3009 Jun 05 20:16	25° I 34'20	
direct	3003 Aug 08 22:18	11° × 36'26		5	20010		
evening set	3003 Dec 12 14:11	29° ₹ 32'08		conjunction	3009 Jun 19 13:31	28° Ⅱ 46′06	-0°23'27
<i>3</i>	3003 Dec 14 15:56	0°る		minimum elong	3009 Jun 19 13:33	28° I I46'07	
max. Earth dist.	3003 Dec 23 02:50		6.30002 AU	max. Earth dist.	3009 Jun 21 20:44	29° Ⅱ 18'17	6.07218 AU
					3009 Jun 24 20:21	0ಂತಾ	

morning rise	3009 Jul 03 08:29	1° 9 58'24			3015 Nov 28 10:10	0°₹	
retrograde	3009 Jul 03 08:29 3009 Nov 08 18:37	21°920'33		evening set	3015 Nov 28 10:10 3015 Dec 16 23:53	0 3 4° 3 05'28	
min. Earth dist.	3010 Jan 06 00:53	16°927'22	4.14255 AU	max. Earth dist.	3015 Dec 27 15:17	6° る 29'35	6.28480 AU
opposition	3010 Jan 07 09:28	16°9516'18		max. Earth dist.	3013 Dec 27 13.17	0 02933	0.28480 AU
asc. node	3010 Jan 07 03:28 3010 Mar 01 23:33	11° © 19'34	-0 07 23	conjunction	3015 Dec 29 16:19	6° る 57'22	0°15'18
direct	3010 Mar 07 09:50	11°916'36		minimum elong	3015 Dec 29 16:20	6°る57'23	0°15'18
evening set	3010 Jul 11 23:10	29°958'10		behind sun begin	3015 Dec 29 13:34	6° る 55'49	0 13 10
evening set	3010 Jul 12 02:26	0°Ω		behind sun end	3015 Dec 29 19:06	6° る 58'56	
	3010341 12 02.20	o 00		morning rise	3016 Jan 11 07:42	9° ප් 49'03	
conjunction	3010 Jul 25 16:16	3° Ω 03'19	0°13'18	retrograde	3016 May 14 18:22	27° る 53'51	
minimum elong	3010 Jul 25 16:15	3°Ω03'18	0°13'18	desc. node	3016 Jun 19 14:46	25° ප 58'44	
behind sun begin	3010 Jul 25 11:38	3° Ω 00'43	0 15 10	opposition	3016 Jul 14 14:20	23°る00'47	-0°03'19
behind sun end	3010 Jul 25 20:52	3°Ω05'53		min. Earth dist.	3016 Jul 15 23:07	23° ろ 50'17	4.21273 AU
max. Earth dist.	3010 Jul 27 11:57	3° Ω 27'56	6.21742 AU	direct	3016 Sep 13 22:54	18° る 03'30	4.212/3 AO
morning rise	3010 Jul 27 11.57 3010 Aug 08 08:50	6° Ω 07'56	0.21742 AU	direct	3016 Sep 13 22:34 3016 Dec 18 13:57	0°≈	
morning risc	3010 Sep 19 06:59	15° Ω		evening set	3017 Jan 17 06:54	6°≈39'14	
ratragrada	3010 Sep 19 00:39 3010 Dec 11 06:38	24° Ω 20'38		max. Earth dist.	3017 Jan 28 11:28	9°≈15'54	6.13941 AU
retrograde			4.28885 AU	max. Earth dist.	301/Jan 26 11.26	9 ≈13 34	0.13941 AU
min. Earth dist.	3011 Feb 08 06:08	19° Ω 26'06	4.28883 AU 0°43'56	:	2017 I 20 00-27	0927122	0920100
opposition	3011 Feb 09 02:31	19° Ω 19'16	0°43′56	conjunction	3017 Jan 30 00:27	9°≈37'32	
11	3011 Mar 20 08:49	15°R Ω		minimum elong	3017 Jan 30 00:26	9°≈37'32	0°20'09
direct	3011 Apr 10 09:54	14° Ω 17'29		morning rise	3017 Feb 11 18:41	12°≈36'26	
	3011 May 01 17:04	15° Ω			3017 Feb 22 03:20	15° ≈	
	3011 Aug 04 05:37	0° m)			3017 May 16 06:44	0°) (
evening set	3011 Aug 15 03:49	2°m/21'33		retrograde	3017 Jun 19 17:54	1°) 49'39	
					3017 Jul 24 09:41	30°R≈	
conjunction	3011 Aug 28 15:32	5° Mp 18'41	0°44'08	opposition	3017 Aug 19 07:34	26° ≈ 53'55	
minimum elong	3011 Aug 28 15:29	5° Mp 18'39	0°44'08	min. Earth dist.	3017 Aug 19 23:55	26° ≈ 48'36	4.06932 AU
max. Earth dist.	3011 Aug 29 07:49	5° Mp 27'37	6.35326 AU	direct	3017 Oct 18 05:17	21°≈58'57	
morning rise	3011 Sep 11 01:32	8° m 14'42			3017 Dec 31 15:41	0° ∀	
retrograde	3012 Jan 11 02:12	25° m 32'21		evening set	3018 Feb 20 13:41	11°) 14'30	
opposition	3012 Mar 11 05:18	20° Mp 34'41	1°19'15				
min. Earth dist.	3012 Mar 11 03:29	20° m/35'17	4.40464 AU	conjunction	3018 Mar 05 11:34	14° ∺ 20'11	
direct	3012 May 11 19:32	15° m 31'58		minimum elong	3018 Mar 05 11:33	14° ∺ 20′10	
	3012 Aug 31 12:40	0∘ ರಾ		max. Earth dist.	3018 Mar 05 02:53	14°) 14′58	6.01086 AU
evening set	3012 Sep 15 11:33	3° ഫ 10′00		morning rise	3018 Mar 18 11:22	17°) 27'09	
					3018 May 14 19:09	0 ° $\mathbf{\Upsilon}$	
conjunction	3012 Sep 28 16:17	6° ≙ 00'44	1°01'07	retrograde	3018 Jul 27 15:44	7° Ƴ 42'58	
minimum elong	3012 Sep 28 16:16	6° ≙ 00'43	1°01'07	opposition	3018 Sep 25 17:47	2° Ƴ 43'36	-1°29'10
max. Earth dist.	3012 Sep 28 05:37	5° ≙ 54'58	6.44034 AU	min. Earth dist.	3018 Sep 25 12:44	2° Ƴ 45'16	3.96886 AU
morning rise	3012 Oct 11 18:09	8° ≙ 50'04			3018 Oct 17 13:42	30°Ŗ ℋ	
retrograde	3013 Feb 09 02:41	25° ≏ 37'52		direct	3018 Nov 23 08:42	27°) (49′52	
opposition	3013 Apr 10 15:03	20° ≙ 43'28	1°31'41		3018 Dec 29 15:16	0 ° Υ	
min. Earth dist.	3013 Apr 11 06:32	20° ≙ 38'27	4.45893 AU	evening set	3019 Mar 28 21:17	17° Ƴ 32'22	
direct	3013 Jun 12 01:26	15° ≙ 41'01					
	3013 Oct 01 15:12	0° M ₊		conjunction	3019 Apr 11 02:15	20° Ƴ 44'11	-1°02'20
evening set	3013 Oct 16 12:00	3°M08'54		minimum elong	3019 Apr 11 02:15	20° Ƴ 44'11	1°02'20
max. Earth dist.	3013 Oct 27 23:20	5° M 37'32	6.45746 AU	max. Earth dist.	3019 Apr 12 02:25	20° Y 58'50	5.94771 AU
				morning rise	3019 Apr 24 10:15	23° Ƴ 57'39	
conjunction	3013 Oct 29 10:09	5°M56'23	1°01'11		3019 May 20 04:01	9° 8	
minimum elong	3013 Oct 29 10:09	5°M56'24	1°01'11	retrograde	3019 Sep 03 20:48	14° 8 39'59	
morning rise	3013 Nov 11 05:43	8°M42'40		opposition	3019 Nov 02 14:13	9° 8 36'57	-1°28'51
	3013 Dec 11 11:19	15° M ₊		min. Earth dist.	3019 Nov 01 12:10	9° 8 45'45	3.95167 AU
retrograde	3014 Mar 11 12:04	25°M28'49		direct	3019 Dec 30 11:07	4° 8 42'24	
opposition	3014 May 11 06:25	20°M36'26	1°19'50		3020 Mar 23 21:21	15° 8	
min. Earth dist.	3014 May 12 13:05	20°M26'38	4.43883 AU	evening set	3020 May 04 10:10	24° 8 25'13	
direct	3014 Jul 13 01:02	15°M35'02					
	3014 Nov 01 07:19	0° ∡		conjunction	3020 May 17 23:05	27° 8 39'23	
evening set	3014 Nov 16 00:44	3° ≯ 10′10		minimum elong	3020 May 17 23:07	27° 8 39'24	0°49'56
max. Earth dist.	3014 Nov 26 17:51	5° ∡ 31'14	6.40106 AU	max. Earth dist.	3020 May 19 23:56	28° 8 08'37	5.97740 AU
					3020 May 27 18:32	$\Pi^{\circ}0$	
conjunction	3014 Nov 28 18:44	5° ∡ ′58′10	0°44'46	morning rise	3020 May 31 14:54	0° Ⅱ 54'52	
minimum elong	3014 Nov 28 18:46	5° ∡ 758'11	0°44'45	retrograde	3020 Oct 09 17:52	21° I I1'33	
morning rise	3014 Dec 11 10:41	8° ∡ ¹45′20		min. Earth dist.	3020 Dec 06 20:30	16° Ⅱ 18'34	4.02489 AU
retrograde	3015 Apr 12 01:44	25° ∡ 757′58		opposition	3020 Dec 08 07:29	16° Ⅱ 06'38	-0°53'20
opposition	3015 Jun 12 00:14	21° ₰ 06'01	0°45'58	direct	3021 Feb 04 11:03	11° Ⅱ 09′28	
min. Earth dist.	3015 Jun 13 12:28	20° ∡ 754′28	4.34917 AU		3021 Jun 08 21:31	0 \circ \odot	
direct	3015 Aug 13 08:49	16° ₰ 06'22		evening set	3021 Jun 10 18:53	0°926'11	

conjunction	3021 Jun 24 12:40	3°937'28	-0°18'39	direct	3027 Aug 17 19:56	20° ∡ ³32′28	
minimum elong	3021 Jun 24 12:42	3°537'29	0°18'38		3027 Nov 11 00:03	0°ರ	
max. Earth dist.	3021 Jun 26 20:12	4°509'43	6.08708 AU	evening set	3027 Dec 21 08:29	8° る 35'28	
morning rise	3021 Jul 08 07:35	6° 5 49'05		max. Earth dist.	3027 Dec 31 23:27	10°る59'58	6.26686 AU
retrograde	3021 Nov 13 08:25	26° © 03'18					
opposition	3022 Jan 11 22:35	20° © 59'22	-0°00'01	conjunction	3028 Jan 03 00:51	11° පි 28'04	0°10'32
min. Earth dist.	3022 Jan 10 15:13	21°910'00	4.15839 AU	minimum elong	3028 Jan 03 00:51	11° ♂ 28'04	0°10'32
asc. node	3022 Jan 12 02:29	20°958'02		behind sun begin	3028 Jan 02 18:36	11° る 24'32	
direct	3022 Mar 12 02:04	15° © 59'21		behind sun end	3028 Jan 03 07:07	11° る 31'37	
	3022 Jun 25 16:34	$0 {\circ} \Omega$		morning rise	3028 Jan 15 16:31	14° る 20'34	
evening set	3022 Jul 16 17:47	4° Ω 37'04			3028 Apr 08 05:02	0° ≈	
				desc. node	3028 Apr 30 00:56	1° ≈ 58′10	
conjunction	3022 Jul 30 10:18	7° Ω 41'19	0°18'01	retrograde	3028 May 19 13:08	2° ≈ 33'45	
minimum elong	3022 Jul 30 10:17	7° Ω 41'19	0°18'01		3028 Jun 30 10:23	30°₹₹	
max. Earth dist.	3022 Aug 01 01:43	8° Ω 03'27	6.23293 AU	opposition	3028 Jul 19 09:12	27° ろ 40'22	
morning rise	3022 Aug 13 02:26	10° Ω 45'02		min. Earth dist.	3028 Jul 20 15:44	27° る 30'34	4.19320 AU
	3022 Sep 01 12:48	15° Ω		direct	3028 Sep 18 12:35	22° る 43'23	
retrograde	3022 Dec 15 14:25	28° Ω 50'37			3028 Nov 29 10:44	0° ≈	
opposition	3023 Feb 13 10:48	23° Ω 49'40	0°49'52	evening set	3029 Jan 21 21:07	11° ≈ 24'33	
min. Earth dist.	3023 Feb 12 16:46	23° Ω 55'42	4.30297 AU	max. Earth dist.	3029 Feb 02 06:03	14° ≈ 04'24	6.11997 AU
direct	3023 Apr 14 22:05	18° Ω 47'39					
_	3023 Jul 18 05:44	0° m)		conjunction	3029 Feb 03 15:07	14° ≈ 23'51	
evening set	3023 Aug 19 17:09	6° Mp 48'43		minimum elong	3029 Feb 03 15:06	14°≈23'50	0°24'54
	2022 0 02 04 11	00m 45100	00.4510.1		3029 Feb 06 04:36	15° ≈	
conjunction	3023 Sep 02 04:11	9° Mp 45'02	0°47'21	morning rise	3029 Feb 16 09:48	17°≈23'47	
minimum elong	3023 Sep 02 04:09	9° m/45'01	0°47'21		3029 Apr 16 17:54	0°) (+ <122	
max. Earth dist.	3023 Sep 02 18:24	9° m 52'49	6.36509 AU	retrograde	3029 Jun 24 21:48	6°) 46'32	1001107
morning rise	3023 Sep 15 12:59	12° m/40'07		opposition	3029 Aug 24 09:02	1° ¥ 50′24	
retrograde	3024 Jan 15 06:44	29° m 53'05	1022120	min. Earth dist.	3029 Aug 24 23:50		4.05162 AU
opposition	3024 Mar 15 11:06	24° My 55'52	1°22'20	T' A	3029 Sep 07 19:58	30°R≈	
min. Earth dist.	3024 Mar 15 10:53	24° Mp 55'56	4.41353 AU	direct	3029 Oct 23 02:55	26°≈55'42 0°) €	
direct	3024 May 16 03:55 3024 Aug 14 07:36	19° m 53'09 0° ₽		evening set	3029 Dec 06 06:52 3030 Feb 25 10:59	16° ★ 16'23	
evening set	3024 Aug 14 07:30 3024 Sep 19 20:37	0 == 7° £ 29'24		evening set	3030 Feb 23 10.39	10 / 1023	
max. Earth dist.	3024 Scp 19 20:37 3024 Oct 02 09:14	10° £ 11'25	6.44548 AU	conjunction	3030 Mar 10 09:39	19° ¥ 23'05	-0°53'12
max. Latur dist.	3024 001 02 07.14	10 =1123	0.44340 AC	minimum elong	3030 Mar 10 09:37	19° X 23'04	
conjunction	3024 Oct 03 00:12	10° ≏ 19'30	1°02'06	max. Earth dist.	3030 Mar 10 04:12	19°) 19'48	5.99647 AU
minimum elong	3024 Oct 03 00:12	10° ⊆ 19'30	1°02'06	morning rise	3030 Mar 23 10:34	22°)(31'10	3.55017 110
morning rise	3024 Oct 16 01:15	13° ⊆ 08'17	1 02 00	morning rise	3030 Apr 24 19:27	0° Υ	
retrograde	3025 Feb 13 08:22	29° £ 54'24		retrograde	3030 Aug 01 22:17	12° Υ 53'52	
opposition	3025 Apr 14 20:49	25° ♀ 00'17	1°31'24	opposition	3030 Sep 30 23:04	7° Υ 54'00	-1°31'24
min. Earth dist.	3025 Apr 15 15:04	24° £ 54'24	4.46009 AU	min. Earth dist.	3030 Sep 30 14:14	7° Y 56'57	3.95958 AU
direct	3025 Jun 16 09:50	19° ≙ 57'52		direct	3030 Nov 28 09:09	3° Y ′00′20	
	3025 Sep 14 13:36	0°M		evening set	3031 Apr 03 00:35	22° Ƴ 45'23	
evening set	3025 Oct 20 18:15	7°M25'36		C	•		
max. Earth dist.	3025 Nov 01 03:37	9°M53'19	6.45430 AU	conjunction	3031 Apr 16 06:40	25° Ƴ 57'53	-1°02'04
				minimum elong	3031 Apr 16 06:40	25° Ƴ 57'54	1°02'04
conjunction	3025 Nov 02 15:49	10°ML12'57	0°59'47	max. Earth dist.	3031 Apr 17 10:27	26° Ƴ 14'45	5.94433 AU
minimum elong	3025 Nov 02 15:50	10°ML12'58	0°59'47	morning rise	3031 Apr 29 15:52	29° Ƴ 12'04	
morning rise	3025 Nov 15 10:35	12°M59'04			3031 May 02 23:47	0°8	
	3025 Nov 24 20:35	15° M ₊			3031 Jul 13 21:12	15° 8	
retrograde	3026 Mar 15 17:59	29°M46'49		retrograde	3031 Sep 09 02:07	19° 8 54'58	
opposition	3026 May 15 14:08	24°M54'31	1°16'17		3031 Nov 06 17:48	15° ₹ 8	
min. Earth dist.	3026 May 16 21:01	24°M44'39	4.43138 AU	opposition	3031 Nov 07 18:45	14° 8 51'32	-1°25'45
direct	3026 Jul 17 07:26	19°M53'17		min. Earth dist.	3031 Nov 06 15:02	15° 8 00'56	3.95458 AU
	3026 Oct 15 07:44	0° ∡ ¹		direct	3032 Jan 04 15:25	9° 8 56'45	
evening set	3026 Nov 20 06:49	7° ∡ ³30′17			3032 Mar 01 06:20	15° 8	
max. Earth dist.	3026 Nov 30 23:04	9° ∡ 51'18	6.38959 AU	evening set	3032 May 09 15:46	29° 8 38'17	
					3032 May 11 04:20	$\Pi^{\circ}0$	
conjunction	3026 Dec 03 00:21	10° ∡ 18'32	0°41'17				
minimum elong	3026 Dec 03 00:23	10° ∡ 18'33	0°41'18	conjunction	3032 May 23 05:49	2° Ⅲ 52'32	-0°46'26
morning rise	3026 Dec 15 16:00	13° ∡ 06′03		minimum elong	3032 May 23 05:51	2° Ⅲ 52'33	
	3027 Mar 31 13:57	0° ਰ		max. Earth dist.	3032 May 25 10:26	3° Ⅱ 23'55	5.98652 AU
retrograde	3027 Apr 16 15:05	0° る 23'52		morning rise	3032 Jun 05 22:20	6° Ⅱ 07'56	
	3027 May 02 14:42	30°R ✓		retrograde	3032 Oct 14 18:47	26° Ⅱ 18'22	
opposition	3027 Jun 16 12:50	25° ∡ 31'51	0°39'48	min. Earth dist.	3032 Dec 11 19:25		4.03928 AU
min. Earth dist.	3027 Jun 18 02:08	25° ҂ 19'58	4.33395 AU	opposition	3032 Dec 13 06:42	21° Ⅱ 13'31	-0°46'25

direct	3033 Feb 09 12:24	16° Ⅱ 16'02			3038 May 12 17:24	30°RM	
direct	3033 May 22 15:14	0°95		opposition	3038 May 19 19:21	29°M06'09	1°12'25
evening set	3033 Jun 15 22:11	5° 5 28'21		min. Earth dist.	3038 May 21 04:57	28°M55'26	4.42368 AU
<i>3</i>				direct	3038 Jul 21 13:25	24°M05'01	
conjunction	3033 Jun 29 16:01	8°938'52	-0°13'30		3038 Sep 25 23:31	0°⊀	
minimum elong	3033 Jun 29 16:02	8°538'52	0°13'30	evening set	3038 Nov 24 09:35	11° ₹ 44'04	
behind sun begin	3033 Jun 29 11:33	8° 5 36'17		max. Earth dist.	3038 Dec 05 00:02	14° ∡ °04'32	6.37614 AU
behind sun end	3033 Jun 29 20:32	8° 5 41'27					
max. Earth dist.	3033 Jul 01 22:08	9° © 10'09	6.10556 AU	conjunction	3038 Dec 07 02:55	14° ∡ °32'44	0°37'42
morning rise	3033 Jul 13 11:05	11° 5 49'39		minimum elong	3038 Dec 07 02:57	14° ∡ ³32'45	0°37'42
	3033 Oct 25 08:44	0 $^{\circ}$ Ω		morning rise	3038 Dec 19 18:21	17° ∡ 20'43	
retrograde	3033 Nov 17 23:04	0° Ω 54'14			3039 Feb 22 11:50	0°ಕ	
asc. node	3033 Nov 22 00:02	0° £ 52′36		retrograde	3039 Apr 21 00:12	4° る 44'41	
	3033 Dec 11 09:19	30° ₹ 5			3039 Jun 19 23:25	30°₹ ⋌ 7	
min. Earth dist.	3034 Jan 15 07:54	26°501'02	4.17927 AU	opposition	3039 Jun 20 22:55	29° 🖈 52'31	0°33'33
opposition	3034 Jan 16 14:41	25°950'36	0°07'35	min. Earth dist.	3039 Jun 22 11:47	29° 🖈 40'45	4.31543 AU
direct	3034 Mar 16 21:45	20°950'17		direct	3039 Aug 22 01:54	24° ₹ 53'21	
	3034 Jun 07 01:49	0° N			3039 Oct 21 11:35 3039 Dec 25 15:17	0°궁 13° 궁 01'37	
evening set	3034 Jul 21 14:33	9° Ω 22'09		evening set max. Earth dist.	3040 Jan 05 07:20		6.24468 AU
conjunction	3034 Aug 04 06:36	12° Ω 25'14	0°22'46	max. Earm dist.	3040 Jan 03 07.20	13 02/2/	0.24408 AU
minimum elong	3034 Aug 04 06:35	$12^{\circ}\Omega 25'13$	0°22'46	conjunction	3040 Jan 07 07:43	15° る 55'07	0°05'49
max. Earth dist.	3034 Aug 05 20:18	12° Ω 46'19	6.25485 AU	minimum elong	3040 Jan 07 07:43	15° ප් 555'07	0°05'49
max. Dartii dist.	3034 Aug 15 20:00	15° Ω	0.23 103 110	behind sun begin	3040 Jan 07 00:06	15° 3 50'47	0 05 15
morning rise	3034 Aug 17 21:44	15° Ω 27'35		behind sun end	3040 Jan 07 15:21	15° る 59'28	
5 5	3034 Nov 02 12:23	0° m∕		morning rise	3040 Jan 19 23:38	18° る 48'38	
retrograde	3034 Dec 19 23:14	3°m/23'51		desc. node	3040 Mar 11 16:32	29° る 41'09	
Č	3035 Feb 05 13:19	30° ₽ Ω			3040 Mar 13 10:11	0° ≈	
opposition	3035 Feb 17 20:26	28° Ω 23'24	0°55'35	retrograde	3040 May 24 09:33	7° ≈ 11'57	
min. Earth dist.	3035 Feb 17 04:31	28° Ω 28'43	4.32404 AU	opposition	3040 Jul 24 03:19	2° ≈ 18'16	-0°17'57
direct	3035 Apr 19 12:39	23° Ω 21'16		min. Earth dist.	3040 Jul 25 09:44	2° ≈ 08′29	4.16867 AU
	3035 Jun 28 10:41	0° m ∕			3040 Aug 11 18:29	30°Rる	
evening set	3035 Aug 24 06:33	11° m) 16'47		direct	3040 Sep 23 03:09	27° る 21'33	
					3040 Nov 03 17:06	0° ≈	
conjunction	3035 Sep 06 16:24	14° m) 11'53	0°50'19		3041 Jan 21 11:07	15° ≈	
minimum elong	3035 Sep 06 16:22	14° Mp 11'52	0°50'18	evening set	3041 Jan 26 11:08	16°≈10'03	C 00505 133
max. Earth dist.	3035 Sep 07 02:10	14° Mp 17'13	6.38361 AU	max. Earth dist.	3041 Feb 06 22:33	18° ≈ 52'14	6.09525 AU
morning rise	3035 Sep 20 00:10	17° ™ 05'46 0° ≏			2041 F 1 00 05 42	10010120	0020127
ratragrada	3035 Nov 26 20:35 3036 Jan 19 09:50	0° 22 4° 2 12'03		conjunction	3041 Feb 08 05:43	19°≈10'38 19°≈10'37	
retrograde	3036 Mar 13 22:51	4 ==1203 30°RMD		minimum elong morning rise	3041 Feb 08 05:41 3041 Feb 21 01:16	19 ≈1037 22°≈12'00	0°29'27
opposition	3036 Mar 19 16:04	29° mp 15'15	1°24'56	morning risc	3041 Mar 27 14:12	0°) €	
min. Earth dist.	3036 Mar 19 18:29	29° M) 14'27	4.42836 AU	retrograde	3041 Jun 30 01:29	11°) (46'22	
direct	3036 May 20 12:44	24° m) 12'28	2030110	opposition	3041 Aug 29 11:29	6°) (49'46	-1°06'54
	3036 Jul 25 07:13	0∘ <u>⊽</u>		min. Earth dist.	3041 Aug 29 22:34	6°) 46′08	4.02908 AU
evening set	3036 Sep 24 03:27	11° ≙ 45'00		direct	3041 Oct 27 22:54	1° ¥ 55'17	
	•			evening set	3042 Mar 02 10:15	21°) 22′57	
conjunction	3036 Oct 07 06:11	14° ≏ 34'20	1°02'45				
minimum elong	3036 Oct 07 06:11	14° ≏ 34'20	1°02'45	conjunction	3042 Mar 15 09:53	24°) € 30′55	
max. Earth dist.	3036 Oct 06 13:04	14° ≙ 25'06	6.45550 AU	minimum elong	3042 Mar 15 09:52	24°) € 30′54	
morning rise	3036 Oct 20 06:01	17° £ 22'17		max. Earth dist.	3042 Mar 15 09:11	24° ∺ 30′29	5.97823 AU
	3036 Dec 26 07:45	0° M		morning rise	3042 Mar 28 11:58	27°) (40'20	
retrograde	3037 Feb 17 09:24	4°M05'32			3042 Apr 07 06:20	0°Υ	
	3037 Apr 12 17:22	30° ₹ Ω	1020125	retrograde	3042 Aug 07 08:06	18° Y 11'17	1022152
opposition	3037 Apr 19 00:05	29° £ 11'43	1°30'37	opposition	3042 Oct 06 06:55	13°Υ10'48	-1°32'53 3.94775 AU
min. Earth dist.	3037 Apr 19 20:02	29° £ 05'17	4.46464 AU	min. Earth dist.	3042 Oct 05 19:02	8° Υ 17'05	3.94775 AU
direct	3037 Jun 20 14:39 3037 Aug 26 00:49	24° ♀ 09'24 0° ル		direct evening set	3042 Dec 03 13:54 3043 Apr 08 07:11	8° Υ 1703 28° Υ 05'27	
evening set	3037 Aug 26 00:49 3037 Oct 24 21:21	11°ML36'01		evening set	3043 Apr 16 04:43	0° 8	
max. Earth dist.	3037 Oct 24 21:21 3037 Nov 05 01:43	14°ML01'13	6.45279 AU		2012 rpi 10 04.43	ŷ O	
Zurur dist.	303, 110, 03 01.73	1. 1100113	552// 110	conjunction	3043 Apr 21 14:40	1° 8 18'46	-1°01'14
conjunction	3037 Nov 06 18:01	14°ML23'05	0°58'07	minimum elong	3043 Apr 21 14:41	1° 8 18'47	
minimum elong	3037 Nov 06 18:02	14°ML23'06	0°58'07	max. Earth dist.	3043 Apr 23 00:40	1° 8 39'23	5.94017 AU
3	3037 Nov 09 14:00	15° M ₊		morning rise	3043 May 05 01:04	4° 8 33'42	
morning rise	3037 Nov 19 12:17	17° M 09'03		-	3043 Jun 20 02:25	15° 8	
	3038 Jan 26 14:11	0° ∡ ¹		retrograde	3043 Sep 14 11:16	25° 8 16'31	
retrograde	3038 Mar 19 23:36	3° ∡ ¹58′22		min. Earth dist.	3043 Nov 11 19:50	20° 8 22'52	3.95870 AU

min. Earth dist.	3054 Oct 11 00:54	18° Ƴ 37'58	3.94452 AU	evening set	3060 Oct 02 18:33	20° ₽ 19'27	
direct	3054 Dec 08 19:46	13° Ƴ 39'10					
	3055 Mar 30 01:54	0° 8		conjunction	3060 Oct 15 19:26	23° ≏ 07'50	1°03'08
evening set	3055 Apr 13 14:35	3° 8 27'27		minimum elong	3060 Oct 15 19:26	23° ≏ 07'50	1°03'07
				max. Earth dist.	3060 Oct 14 18:22	22° ≏ 54'18	6.46132 AU
conjunction	3055 Apr 26 23:00	6° 8 41'03	-0°59'57	morning rise	3060 Oct 28 17:30	25° ≙ 54'54	
minimum elong	3055 Apr 26 23:02	6° 8 41'04			3060 Nov 17 02:59	0° M	
max. Earth dist.	3055 Apr 28 12:05	7° 8 03'29	5.94465 AU	retrograde	3061 Feb 25 19:56	12°M37'31	
morning rise	3055 May 10 10:41	9° 8 56'17		opposition	3061 Apr 27 11:58	7° M 44'20	1°27'49
	3055 May 31 23:01	15° 8		min. Earth dist.	3061 Apr 28 12:57	7° M 36'19	4.45879 AU
	3055 Aug 31 18:04	0°II		direct	3061 Jun 29 05:14	2°M42'18	
retrograde	3055 Sep 19 15:40	0° Ⅱ 35'15			3061 Oct 08 17:05	15° M ₊	
	3055 Oct 08 11:21	30° ₹ 8		evening set	3061 Nov 02 09:17	20°M11'28	
min. Earth dist.	3055 Nov 16 22:18	25° 8 42'07		max. Earth dist.	3061 Nov 13 07:49	22°M34'12	6.43561 AU
opposition	3055 Nov 18 06:53	25° 8 31'03	-1°17'18		20(1)	220M 50116	0052150
direct	3056 Jan 15 03:39	20° 8 35'34		conjunction	3061 Nov 15 04:51	22°M58'46	0°53'50
	3056 Apr 04 14:34	0°II		minimum elong	3061 Nov 15 04:53	22°M58'47	0°53'50
evening set	3056 May 20 06:43	10° Ⅱ 10′18		morning rise	3061 Nov 27 22:09	25°M45'04	
. ,.	2056 1 02 22 10	120 T 22152	0020114	. 1	3061 Dec 17 21:02	0° ⋌ ¹	
conjunction	3056 Jun 02 22:19	13° Ⅱ 23'53		retrograde	3062 Mar 28 18:19	12° × 742'17	1902110
minimum elong	3056 Jun 02 22:21	13° Ⅱ 23'54		opposition	3062 May 28 15:04	7° 🖈 50'15	1°03'19
max. Earth dist.	3056 Jun 05 06:07	13° Ⅱ 56'54 16° Ⅱ 38'23	6.01597 AU	min. Earth dist.	3062 May 30 02:36	7°× 7 38'55	4.39629 AU
morning rise	3056 Jun 16 16:06 3056 Aug 18 17:36	16°Щ3823		direct	3062 Jul 30 06:10 3062 Dec 03 01:07	2° х 49'38 20° х 36'30	
retrograde	3056 Oct 24 15:17	0 €3 6°€31'00		evening set max. Earth dist.	3062 Dec 13 14:59	20 x ·3030 22° x /57'50	6.34069 AU
min. Earth dist.	3056 Dec 21 17:15	1°938'04	4.07841 AU	max. Earth dist.	3002 Dec 13 14.39	22 × 3/30	0.34009 AU
opposition	3056 Dec 23 04:26	1°926'05		conjunction	3062 Dec 15 18:04	23° ₹ 26'24	0°29'35
opposition	3057 Jan 02 20:57	30°RII	-0 3130	minimum elong	3062 Dec 15 18:04 3062 Dec 15 18:06	23° × 26'25	0°29'34
direct	3057 Feb 19 16:51	26° Ⅱ 27'39		morning rise	3062 Dec 13 18:00 3062 Dec 28 09:20	26° × 15'45	0 29 34
direct	3057 Apr 08 07:11	0°95		morning rise	3063 Jan 14 10:46	0°중	
evening set	3057 Jun 26 03:13	15° © 27'19		retrograde	3063 Apr 30 10:13	್ತು 13° ಕ 55'11	
e venning see	3037 Juli 20 03.13	13 (27 1)		opposition	3063 Jun 30 08:01	9° ට 02'49	0°19'47
conjunction	3057 Jul 09 21:05	18° © 35'46	-0°03'03	min. Earth dist.	3063 Jul 01 20:17	8° ਰ 51'15	4.27405 AU
minimum elong	3057 Jul 09 21:06	18°935'47		direct	3063 Aug 31 04:39	4°る04'23	
behind sun begin	3057 Jul 09 12:45	18°931'02		desc. node	3063 Nov 29 13:29	14° る 43'26	
behind sun end	3057 Jul 10 05:27	18° 5 40'32		evening set	3064 Jan 03 16:36	22° る 24'09	
max. Earth dist.	3057 Jul 12 01:13	19° © 05'35	6.15061 AU	max. Earth dist.	3064 Jan 14 12:05	24° る 53'27	6.20087 AU
morning rise	3057 Jul 23 15:28	21°5944'10					
asc. node	3057 Aug 11 02:40	25° 9 51'09		conjunction	3064 Jan 16 09:20	25° る 19'35	-0°04'23
	3057 Aug 30 20:02	$0^{\circ}\Omega$		minimum elong	3064 Jan 16 09:19	25° る 19'34	0°04'22
retrograde	3057 Nov 27 01:46	10° Ω 27'03		behind sun begin	3064 Jan 16 01:29	25° る 15'04	
opposition	3058 Jan 25 19:48	5° Ω 24'08	0°22'23	behind sun end	3064 Jan 16 17:10	25° る 24'05	
min. Earth dist.	3058 Jan 24 16:14	5° £ 33′26	4.22538 AU	morning rise	3064 Jan 29 02:04	28° る 15'15	
direct	3058 Mar 26 12:13	0° £ 23′08			3064 Feb 05 17:30	0° ≈	
	3058 Jul 14 03:09	15° Ω			3064 Apr 28 11:06	15° ≈	
evening set	3058 Jul 31 04:52	18° Ω 42'27		retrograde	3064 Jun 03 11:55	16° ≈ 58'43	
					3064 Jul 09 18:30	15° R ≈	
conjunction	3058 Aug 13 19:20	21° Ω 43′01		opposition	3064 Aug 03 04:00	12° ≈ 04'22	
minimum elong	3058 Aug 13 19:18	21° Ω 43′00		min. Earth dist.	3064 Aug 04 05:24		4.12585 AU
max. Earth dist.	3058 Aug 15 00:53	21° Ω 59′23	6.29802 AU	direct	3064 Oct 02 17:57	7° ≈ 08'23	
morning rise	3058 Aug 27 08:38	24° Ω 42'43			3064 Dec 15 23:57	15° ≈	
	3058 Sep 21 00:58	0° m)		evening set	3065 Feb 05 02:27	26°≈08'56	
retrograde	3058 Dec 28 13:01	12° Mp 21'43					
opposition	3059 Feb 26 13:00	7° m 22'18		conjunction	3065 Feb 17 22:13	29°≈11'40	
min. Earth dist.	3059 Feb 26 02:41	7° Mp 25'43	4.36101 AU	minimum elong	3065 Feb 17 22:11	29°≈11'39	
direct	3059 Apr 28 14:47	2° m 19'50		max. Earth dist.	3065 Feb 16 24:00		6.05738 AU
evening set	3059 Sep 02 06:52	20° Mp 06'44			3065 Feb 21 07:23	0° ∀	
: "	2050 9 15 11 15	000m 5015 1	0055127	morning rise	3065 Mar 02 19:13	2° H 15'21	
conjunction	3059 Sep 15 14:47	22° m 59'54		retrograde	3065 Jul 10 18:44	22° ₩ 08'02	1017104
minimum elong	3059 Sep 15 14:46	22° m 59'53	0°55'26	opposition	3065 Sep 09 00:41	17° ¥ 10′26	
max. Earth dist.	3059 Sep 15 16:28	23° Mp 00'48	6.41153 AU	min. Earth dist.	3065 Sep 09 05:30	17° ₩ 08'51	4.00016 AU
morning rise	3059 Sep 28 20:14	25° m 51'44		direct	3065 Nov 07 03:08	12° 升 16′26 0° Υ	
retrograda	3059 Oct 18 09:52	13 ං 		avaning set	3066 Mar 12 15:24	1° Υ 51'40	
retrograde opposition	3060 Jan 27 17:32 3060 Mar 28 02:39	12° ♀ 48'41 7° ♀ 52'50	1°28'55	evening set	3066 Mar 12 15:24	1 13140	
min. Earth dist.	3060 Mar 28 10:17	7° £ 52'30'7° £ 50'20	4.44593 AU	conjunction	3066 Mar 25 16:53	5° Ƴ 01'17	-0°50'45
direct	3060 May 29 05:31	2° £ 50'06	т.т <i>эээ А</i> О	minimum elong	3066 Mar 25 16:52	5° Υ 01'16	
anoci	3000 May 27 03.31	2 -3000			5000 Mai 25 10.52	2 1 01 10	0 07 70

max. Earth dist.	3066 Mar 26 02:00	5° Ƴ 06'48	5.96093 AU	retrograde	3072 Jan 31 23:36	17° ≏ 08'04	
morning rise	3066 Apr 07 21:13	8° Υ 12'30		opposition	3072 Apr 01 08:32	12° ≏ 12'43	1°30'13
retrograde	3066 Aug 18 01:31	28° Ƴ 50'46		min. Earth dist.	3072 Apr 01 19:34	12° ഫ 09'08	4.45000 AU
opposition	3066 Oct 16 22:56	23° Y 49'15	-1°33'37	direct	3072 Jun 02 14:57	7° £ 10′03	
min. Earth dist.	3066 Oct 16 04:12	23° Y 55'32	3.94463 AU	evening set	3072 Oct 07 02:18	24° £ 39'05	
direct	3066 Dec 14 00:35	18° Ƴ 55'24		max. Earth dist.	3072 Oct 18 22:05	27° ≏ 11'55	6.46022 AU
	3067 Mar 11 23:10	8° 0					
evening set	3067 Apr 18 19:53	8° 8 42'44		conjunction	3072 Oct 20 02:23	27° £ 27'12	1°02'49
				minimum elong	3072 Oct 20 02:23	27° £ 27'13	1°02'48
conjunction	3067 May 02 05:30	11° 8 56'33	-0°58'12		3072 Oct 31 21:34	0°M₊	
minimum elong	3067 May 02 05:32	11° 8 56'34	0°58'12	morning rise	3072 Nov 01 23:41	0°M14'02	
max. Earth dist.	3067 May 03 23:00	12° 8 21'36	5.95125 AU		3073 Jan 25 02:21	15° ™	
	3067 May 14 22:10	15° 8		retrograde	3073 Mar 02 02:15	16°M57'39	
morning rise	3067 May 15 18:02	15° 8 11'53			3073 Apr 07 07:00	15°RM₊	
	3067 Jul 24 08:23	$\Pi^{\circ}0$		opposition	3073 May 01 19:35	12°M04'43	1°25'43
retrograde	3067 Sep 24 19:02	5° Ⅱ 46′22		min. Earth dist.	3073 May 02 21:41	11°M56'21	4.45296 AU
min. Earth dist.	3067 Nov 22 00:19		3.98269 AU	direct	3073 Jul 03 12:43	7°M02'53	
opposition	3067 Nov 23 09:02	0° Ⅱ 41'56	-1°12'16		3073 Sep 20 06:27	15°M	
	3067 Nov 28 12:41	30° ₹8		evening set	3073 Nov 06 16:34	24°M33'56	
direct	3068 Jan 20 07:39	25° 8 46'06		max. Earth dist.	3073 Nov 17 14:48	26°M56'52	6.42573 AU
	3068 Mar 11 22:32	$\Pi^{\circ}0$					
evening set	3068 May 25 10:37	15° Ⅱ 16'30		conjunction	3073 Nov 19 11:40	27°M21'25	0°51'13
		•		minimum elong	3073 Nov 19 11:41	27°M21'26	0°51'14
conjunction	3068 Jun 08 02:50	18° Ⅱ 29'36			3073 Dec 01 13:50	0° ∡	
minimum elong	3068 Jun 08 02:52	18° Ⅱ 29'37	0°33'49	morning rise	3073 Dec 02 04:22	0° ∡ 07'54	
max. Earth dist.	3068 Jun 10 11:30	19° Ⅱ 02'58	6.03263 AU	retrograde	3074 Apr 02 05:30	17° ₹ 09'25	
morning rise	3068 Jun 21 21:06	21° Ⅱ 43'31		opposition	3074 Jun 02 03:03	12° ₹ 17'30	0°58'10
	3068 Jul 28 21:34	0°©		min. Earth dist.	3074 Jun 03 15:03	12° ₹ 06'02	4.38309 AU
retrograde	3068 Oct 29 08:43	11°527'01	4.00==1.444	direct	3074 Aug 03 16:58	7° √ 17'14	
min. Earth dist.	3068 Dec 26 11:40	6°934'20	4.09771 AU	evening set	3074 Dec 07 10:23	25° ₹ 07'25	6 22520 ATT
opposition	3068 Dec 27 23:01	6°922'18	-0°24'07	max. Earth dist.	3074 Dec 17 23:18	27° ≯ 28'50	6.32530 AU
direct	3069 Feb 24 13:42 3069 Jun 21 12:58	1° 5 23'32 18° 5 08'46		:	2074 D 20 02-50	27° × 757'49	0°25'15
asc. node evening set	3069 Jul 01 02:05	20°917'40		conjunction minimum elong	3074 Dec 20 02:58 3074 Dec 20 02:59	27° х ′3749 27° х ′57′50	0°25'15
evening set	3009 Jul 01 02.03	20 301740		minimum ciong	3074 Dec 20 02:39 3074 Dec 29 04:48	27 メ ・3730	0 23 13
conjunction	3069 Jul 14 19:40	23°925'07	0°02'12	morning rise	3074 Dec 25 04:48 3075 Jan 01 18:22	0° ろ 47'49	
minimum elong	3069 Jul 14 19:41	23°S25'08	0°02'12	retrograde	3075 May 05 04:35	18° る 34'08	
behind sun begin	3069 Jul 14 11:19	23°S20'23	0 02 12	opposition	3075 Jul 05 02:04	13° る 41'33	0°12'40
behind sun end	3069 Jul 15 04:03	23° © 29'52		min. Earth dist.	3075 Jul 06 13:00		4.25744 AU
max. Earth dist.	3069 Jul 16 20:01	23° © 52'39	6.17084 AU	direct	3075 Sep 04 19:39	8° る 43'25	257110
morning rise	3069 Jul 28 13:41	26°932'26		desc. node	3075 Oct 09 22:22	10°る34'54	
3	3069 Aug 13 02:32	$0^{\circ}\Omega$		evening set	3076 Jan 08 05:34	27° る 07'10	
	3069 Nov 23 16:55	15° Ω		max. Earth dist.	3076 Jan 19 05:10	29° る 39'20	6.18459 AU
retrograde	3069 Dec 01 13:29	15° Ω 06′08					
	3069 Dec 09 09:27	15° RΩ		conjunction	3076 Jan 20 22:35	0°≈03'20	-0°09'19
min. Earth dist.	3070 Jan 29 06:55	10° Ω 11'56	4.24463 AU	minimum elong	3076 Jan 20 22:35	0°≈03'20	0°09'19
opposition	3070 Jan 30 07:30	10° Ω 03'39	0°29'22	behind sun begin	3076 Jan 20 15:50	29° る 59'26	
direct	3070 Mar 31 05:28	5° Ω 02′23		behind sun end	3076 Jan 21 05:20	0° ≈ 07'14	
	3070 Jun 26 08:18	15° Ω			3076 Jan 20 16:48	0° ≈	
evening set	3070 Aug 04 21:23	23° Ω 17′04		morning rise	3076 Feb 02 15:30	2° ≈ 59'48	
					3076 Mar 30 16:34	15° ≈	
conjunction	3070 Aug 18 11:14	26° Ω 16′38	0°35'50	retrograde	3076 Jun 08 12:22	21° ≈ 51′07	
minimum elong	3070 Aug 18 11:12	26° Ω 16'37	0°35'49	opposition	3076 Aug 08 03:47	16° ≈ 56′24	-0°39'53
max. Earth dist.	3070 Aug 19 14:02	26° Ω 31′26	6.31484 AU	min. Earth dist.	3076 Aug 09 02:49	16° ≈ 48'58	4.11123 AU
morning rise	3070 Aug 31 23:26	29° Ω 15'13			3076 Aug 23 13:32	15° R ≈	
	3070 Sep 04 09:25	0° m		direct	3076 Oct 07 13:06	12° ≈ 00'46	
retrograde	3071 Jan 01 18:03	16° Mp 47'35			3076 Nov 20 12:36	15° ≈	
opposition	3071 Mar 02 19:55	11° m 48'43	1°10'31		3077 Feb 05 07:08	0° ∀	
min. Earth dist.	3071 Mar 02 11:18	11° mp 51'34	4.37437 AU	evening set	3077 Feb 09 20:49	1°) €04'42	
direct	3071 May 03 00:34	6° Mp 46'11					00.45
evening set	3071 Sep 06 18:07	24° Mp 30'31		conjunction	3077 Feb 22 16:54	4°) €08'06	
	2071 0 20	A # 6 *** * * * * *	005575	minimum elong	3077 Feb 22 16:52	4°) €08'05	
conjunction	3071 Sep 20 00:57	27° m/22'55	0°57'30	max. Earth dist.	3077 Feb 21 21:20		6.04560 AU
minimum elong	3071 Sep 20 00:55	27° m 22'54	0°57'30	morning rise	3077 Mar 07 14:46	7° 升 12'38	
max. Earth dist.	3071 Sep 19 21:47	27° m/21'12	6.42043 AU	retrograde	3077 Jul 15 21:09	27° ★ 11'24	1001120
morning ris-	3071 Oct 02 03:22	0° ჲ 0° ჲ 14'00		opposition	3077 Sep. 14 03:38	22°¥13'13	-1°21'32 3.99247 AU
morning rise	3071 Oct 03 05:24	0 == 14 00		min. Earth dist.	3077 Sep 14 04:53	22 T 12'48	3.7724 / AU

direct	3077 Nov 12 02:27	17° ¥ 19'16			3083 Sep 16 11:30	0∘ ⊽	
	3078 Feb 15 21:19	0° Υ			2002 0 24 10 12	10 0 42110	0050112
evening set	3078 Mar 17 14:19	6° Ƴ 55'55		conjunction	3083 Sep 24 10:13	1° Ω 43'10	
	207034 20 16 72	100000000	1000150	minimum elong	3083 Sep 24 10:11	1° Ω 43'09	0°59'11
conjunction	3078 Mar 30 16:52	10° Υ 06'06		max. Earth dist.	3083 Sep 24 05:00	1° ≏ 40'21	6.42746 AU
minimum elong	3078 Mar 30 16:51	10° Y 06′06	1°00'58	morning rise	3083 Oct 07 13:31	4° Ω 33'34	
max. Earth dist.	3078 Mar 31 07:21	10° Y 14'53	5.95809 AU	retrograde	3084 Feb 05 02:55	21° Ω 25'11	
morning rise	3078 Apr 12 22:03	13° Y 17'52		opposition	3084 Apr 05 13:51	16° △ 30'13	1°30'58
	3078 Jul 03 04:58	0° 8		min. Earth dist.	3084 Apr 06 01:56	16° ≏ 26'18	4.45327 AU
retrograde	3078 Aug 23 06:02	3° 8 57'13		direct	3084 Jun 06 21:19	11° ≏ 27'39	
	3078 Oct 13 23:01	30° ₹Ƴ		evening set	3084 Oct 11 09:24	28° ≏ 56'16	
min. Earth dist.	3078 Oct 21 05:22				3084 Oct 16 07:57	0° M	
opposition	3078 Oct 22 01:12	28° Y 55'14	-1°32'49	max. Earth dist.	3084 Oct 23 01:42	1° M 27'22	6.45939 AU
direct	3078 Dec 19 02:27	24° Ƴ 01'11					
	3079 Feb 19 02:03	9° 8		conjunction	3084 Oct 24 08:35	1° M 44'05	1°02'07
evening set	3079 Apr 23 20:58	13° 8 46'56		minimum elong	3084 Oct 24 08:35	1° ጤ 44'05	1°02'08
	3079 Apr 28 22:42	15° 8		morning rise	3084 Nov 06 05:08	4°M30'39	
					3084 Dec 29 09:20	15° ™	
conjunction	3079 May 07 07:32	17° 8 00'52	-0°56'04	retrograde	3085 Mar 06 09:12	21°M14'59	
minimum elong	3079 May 07 07:34	17° 8 00'54	0°56'04	opposition	3085 May 06 02:40	16°ML22'17	1°23'06
max. Earth dist.	3079 May 09 03:13	17° 8 27'10	5.95852 AU	min. Earth dist.	3085 May 07 07:03	16°Ml13'13	4.44791 AU
morning rise	3079 May 20 21:09	20° 8 16'19			3085 May 16 22:57	15°RM₀	
C	3079 Jul 02 20:46	0° I I		direct	3085 Jul 07 21:15	11° M 20'37	
retrograde	3079 Sep 29 16:09	10° Ⅱ 46′00			3085 Aug 28 05:52	15° ™	
min. Earth dist.	3079 Nov 26 20:16		3.99414 AU	evening set	3085 Nov 10 22:26	28°M52'58	
opposition	3079 Nov 28 06:20	5° Ⅱ 41'25	-1°06'55	8	3085 Nov 16 01:22	0° ∡ 7	
direct	3080 Jan 25 04:45	0° П 45'13	1 0000	max. Earth dist.	3085 Nov 21 17:57	1° x 14'48	6.41647 AU
evening set	3080 May 30 10:32	20° I I11'58		max. Earth dist.	3003 1407 21 17.37	1 × 1440	0.41047 710
evening set	3000 May 30 10.32	20 11130		conjunction	3085 Nov 23 17:03	1° х 40'37	0°48'20
conjunction	3080 Jun 13 03:13	23° Ⅱ 24'37	0°20'22	minimum elong	3085 Nov 23 17:04	1°× 40'38	0°48'19
minimum elong	3080 Jun 13 03:15	23° I I24'38	0°29'22	morning rise	3085 Nov 25 17:04 3085 Dec 06 09:27	4° × 27'21	0 40 19
max. Earth dist.	3080 Jun 15 10:05	23° I I56'49	6.04719 AU	-		21° x ² /21	
			0.04/19 AU	retrograde	3086 Apr 06 15:45		0°52'42
morning rise	3080 Jun 26 21:54	26° Ⅱ 38'01		opposition	3086 Jun 06 14:06	16° ₹ 41'07	
	3080 Jul 11 13:38	0°95		min. Earth dist.	3086 Jun 08 01:54	16° ₹ 29'42	4.36990 AU
retrograde	3080 Nov 02 23:54	16°513'35	4 11272 4 11	direct	3086 Aug 08 01:36	11° х 41'03	
min. Earth dist.	3080 Dec 31 04:21	11°520'29	4.11373 AU	evening set	3086 Dec 11 17:58	29° ₹ 34'37	
opposition	3081 Jan 01 13:55	11° © 09'03	-0°16'47		3086 Dec 13 15:25	0° る	
direct	3081 Mar 01 08:54	6° © 09'52		max. Earth dist.	3086 Dec 22 08:31	1° る 57'26	6.30905 AU
asc. node	3081 May 03 14:20	12° © 03'31				_	
evening set	3081 Jul 05 21:54	24°959'54		conjunction	3086 Dec 24 10:31	2° る 25'36	0°20'46
				minimum elong	3086 Dec 24 10:32	2° る 25'37	0°20'46
conjunction	3081 Jul 19 15:30	28° © 06'35	0°07'07	morning rise	3087 Jan 06 01:47	5° る 16'14	
minimum elong	3081 Jul 19 15:30	28° © 06'35	0°07'08	retrograde	3087 May 09 22:18	23° る 10'02	
behind sun begin	3081 Jul 19 07:50	28° © 02'15		opposition	3087 Jul 09 19:04	18° る 17'17	
behind sun end	3081 Jul 19 23:10	28°©10'55		min. Earth dist.	3087 Jul 11 05:36	18° る 06'15	4.23891 AU
max. Earth dist.	3081 Jul 21 14:37	28° © 33'19	6.18727 AU	desc. node	3087 Aug 20 06:24	13° る 56'57	
	3081 Jul 27 23:36	$0 {\circ} \Omega$		direct	3087 Sep 09 09:05	13° る 19'32	
morning rise	3081 Aug 02 08:57	1° Ω 12'57			3088 Jan 04 21:03	0° ≈	
	3081 Oct 10 23:22	15° Ω		evening set	3088 Jan 12 18:00	1° ≈ 48'16	
retrograde	3081 Dec 05 22:27	19° Ω 38'53		max. Earth dist.	3088 Jan 23 18:22	4° ≈ 21'36	6.16520 AU
	3082 Jan 31 20:05	15° ₹Ω					
opposition	3082 Feb 03 16:53	14° Ω 36'54	0°35'55	conjunction	3088 Jan 25 11:07	4° ≈ 45'19	-0°14'14
min. Earth dist.	3082 Feb 02 17:36	14° Ω 44'44	4.26013 AU	minimum elong	3088 Jan 25 11:06	4° ≈ 45'19	0°14'14
direct	3082 Apr 04 17:53	9° Ω 35'27		behind sun begin	3088 Jan 25 07:06	4° ≈ 43'00	
	3082 Jun 05 11:29	15° Ω		behind sun end	3088 Jan 25 15:06	4° ≈ 47'38	
evening set	3082 Aug 09 12:13	27° Ω 46'46		morning rise	3088 Feb 07 04:40	7° ≈ 42'50	
	3082 Aug 19 14:40	0° т р			3088 Mar 10 20:25	15° ≈	
	-			retrograde	3088 Jun 13 12:35	26° ≈ 43'37	
conjunction	3082 Aug 23 01:09	0° ™ 45'27	0°39'35	opposition	3088 Aug 13 03:24	21° ≈ 48'27	-0°46'45
minimum elong	3082 Aug 23 01:07	0° m 45'25	0°39'35	min. Earth dist.	3088 Aug 13 23:26	21° ≈ 41'57	4.09248 AU
max. Earth dist.	3082 Aug 23 22:53	57'25 ش 0°	6.32825 AU	direct	3088 Oct 12 07:24	16° ≈ 53'05	
morning rise	3082 Sep 05 12:36	3° m 43'06			3089 Jan 19 12:24	0°) €	
retrograde	3083 Jan 06 00:45	21° m/ 10'05		evening set	3089 Feb 14 15:48	6°) €02'24	
opposition	3083 Mar 07 02:15	16° Mp 11'43	1°14'32	S			
min. Earth dist.	3083 Mar 06 20:45	16° Mp 13'32	4.38495 AU	conjunction	3089 Feb 27 12:44	9°) €06'52	-0°45'59
direct	3083 May 07 11:11	11° mp 09'05	-	minimum elong	3089 Feb 27 12:42	9° ₩ 06'50	
evening set	3083 Sep 11 04:09	28° m 51'23		max. Earth dist.	3089 Feb 26 22:19	8°) 58'13	6.02925 AU
		,				. , ,	

	2000 M 12 11.10	120W 12120			2004 9 10 02-27	00 m , 1 4!1 0	
morning rise	3089 Mar 12 11:19	12° 升 12′28 0° ⋎		morning rise	3094 Sep 10 02:27	8° Mp 14'18	
	3089 Jun 12 09:29			retrograde	3095 Jan 10 05:08	25° m 33'36	1010100
retrograde	3089 Jul 21 04:41	2° Y 19′22		opposition	3095 Mar 11 08:37	20° m/35'42	1°18'09
	3089 Aug 29 02:45	30° ₹		min. Earth dist.	3095 Mar 11 04:49	20° Mp 36'58	4.40221 AU
opposition	3089 Sep 19 08:28	27°) € 20'43	-1°25'14	direct	3095 May 11 21:12	15° m 33'02	
min. Earth dist.	3089 Sep 19 07:41	27° ∺ 20'58	3.98024 AU		3095 Aug 31 12:29	0∘ ত	
direct	3089 Nov 17 04:01	22° ∺ 26'55		evening set	3095 Sep 15 13:20	3° ≏ 10'54	
	3090 Jan 27 02:16	$0^{\circ}\mathbf{\Upsilon}$					
evening set	3090 Mar 22 15:57	12° Y 06'55		conjunction	3095 Sep 28 18:09	6° £ 01'41	1°00'34
S				minimum elong	3095 Sep 28 18:08	6° £ 01'41	1°00'34
conjunction	3090 Apr 04 19:30	15° Ƴ 17'55	1001/46	max. Earth dist.	3095 Sep 28 08:02	5° £ 56'13	6.44068 AU
•	•				3095 Oct 11 20:30	8° ⊆ 51'09	0.44000 AC
minimum elong	3090 Apr 04 19:30			morning rise			
max. Earth dist.	3090 Apr 05 13:27	15° Y 28'48	5.95100 AU	retrograde	3096 Feb 09 06:14	25° ≏ 38'31	
morning rise	3090 Apr 18 02:01	18° Ƴ 30'34		opposition	3096 Apr 09 17:50	20° £ 43'52	1°31'13
	3090 Jun 08 07:11	$_{0\circ}$ 8		min. Earth dist.	3096 Apr 10 09:13	20° ≏ 38'54	4.46168 AU
retrograde	3090 Aug 28 11:54	9° 8 12'33		direct	3096 Jun 11 04:55	15° ≏ 41'17	
min. Earth dist.	3090 Oct 26 07:20	4° 8 17'56	3.94623 AU		3096 Sep 30 18:34	0° M	
opposition	3090 Oct 27 06:28	4° 8 10'08	-1°31'19	evening set	3096 Oct 15 13:26	3° M 07'41	
	3090 Dec 03 12:35	30° ₹Ƴ		max. Earth dist.	3096 Oct 27 02:46	5°M37'09	6.46216 AU
direct	3090 Dec 24 04:40	29° Y 15'55					
	3091 Jan 13 22:16	0°8		conjunction	3096 Oct 28 11:56	5°M55'05	1°01'08
	3091 Apr 12 00:54	15° 8		minimum elong	3096 Oct 28 11:57	5°M55'06	1°01'08
		_		· ·			1 01 08
evening set	3091 Apr 29 02:24	19° 8 01'31		morning rise	3096 Nov 10 07:36	8°M41'13	
					3096 Dec 10 17:14	15° M .	
conjunction	3091 May 12 14:02	22° 8 15'42		retrograde	3097 Mar 10 11:18	25°M25'28	
minimum elong	3091 May 12 14:04	22° 8 15'44	0°53'26	opposition	3097 May 10 06:57	20°M32'53	1°20'08
max. Earth dist.	3091 May 14 11:54	22° 8 43'16	5.96396 AU	min. Earth dist.	3097 May 11 12:18	20°M23'30	4.44485 AU
morning rise	3091 May 26 04:40	25° 8 31'21		direct	3097 Jul 12 00:57	15° M 31'19	
	3091 Jun 14 07:29	$\Pi^{\circ}0$			3097 Oct 31 17:53	0° ∡ ¹	
retrograde	3091 Oct 04 17:43	15° Ⅱ 56'40		evening set	3097 Nov 15 01:09	3° ҂ ¹04'26	
min. Earth dist.	3091 Dec 01 21:06	11° I I03'38	4.00514 AU	max. Earth dist.	3097 Nov 25 18:33	5° ₹ ¹25'26	6.40766 AU
opposition	3091 Dec 03 07:29	10° I 51'55		max. Earth dist.	3077 1107 23 10.33	3 7 23 20	0.10700710
**		5° I 55'20	-1 00 33	aamiumatiam	2007 Nov. 27, 10-12	50.752!12	0045116
direct	3092 Jan 30 08:16			conjunction	3097 Nov 27 19:13	5° 🖈 52'13	0°45'16
evening set	3092 Jun 04 14:47	25° Ⅱ 18'30		minimum elong	3097 Nov 27 19:15	5° ≯ 52'13	0°45'16
				morning rise	3097 Dec 10 11:15	8° ₹ 39'09	
conjunction	3092 Jun 18 08:10	28° Ⅲ 30'43	-0°24'30	retrograde	3098 Apr 11 00:34	25° ₹ 49'12	
minimum elong	3092 Jun 18 08:11	28° Ⅱ 30'44	0°24'31	opposition	3098 Jun 10 22:12	20° ∡ 57′12	0°47'05
max. Earth dist.	3092 Jun 20 16:56	29° Ⅲ 03'53	6.06301 AU	min. Earth dist.	3098 Jun 12 11:59	20° ∡ ¹45'11	4.35551 AU
	3092 Jun 24 17:02	0ം ഉ		direct	3098 Aug 12 08:46	15° ₹ '57'20	
morning rise	3092 Jul 02 02:59	1° © 43'27			3098 Nov 28 04:15	0°రె	
retrograde	3092 Nov 07 18:52	21°9510'10		evening set	3098 Dec 15 22:54	3°₹54'50	
min. Earth dist.	3093 Jan 04 23:11		4.13282 AU	max. Earth dist.	3098 Dec 26 11:42	6°る17'19	6.29007 AU
	3093 Jan 06 08:28	16°905'54		max. Lartii dist.	3070 DCC 20 11.42	0 01/12	0.27007 AC
opposition			-0 0903		2000 D 20 15 22	60 Z 46122	0017117
direct	3093 Mar 06 06:38	11°506'25		conjunction	3098 Dec 28 15:22	6° る 46'33	0°16'17
asc. node	3093 Mar 13 09:09	11° © 11'28		minimum elong	3098 Dec 28 15:23	6° る 46'33	0°16'18
evening set	3093 Jul 10 21:08	29° © 50'57		morning rise	3099 Jan 10 06:53	9° ප 38'02	
	3093 Jul 11 13:15	$0 {\circ} \Omega$		retrograde	3099 May 14 13:30	27° る 40'31	
				desc. node	3099 Jul 02 01:40	24° る 20'39	
conjunction	3093 Jul 24 14:11	2° Ω 56'31	0°12'10	opposition	3099 Jul 14 09:56	22° る 47'29	-0°01'38
minimum elong	3093 Jul 24 14:11	2° Ω 56'31	0°12'10	min. Earth dist.	3099 Jul 15 19:06	22° る 36'50	4.21642 AU
behind sun begin	3093 Jul 24 08:42	2° Ω 53'26		direct	3099 Sep 13 18:43	17° る 49'57	
behind sun end	3093 Jul 24 19:40	2° Ω 59'36			3099 Dec 19 13:37	0° ≈	
max. Earth dist.	3093 Jul 26 10:04	3° Ω 21'18	6.20818 AU	evening set	3100 Jan 17 04:52	6°≈25'20	
morning rise	3093 Aug 07 07:11	6° Ω 01'42	0.20010710	max. Earth dist.	3100 Jan 28 08:51	9°≈01'32	6.14113 AU
morning risc	-			max. Earth dist.	3100 Jan 26 06.31	9 ~01 32	0.14113 AU
. 1	3093 Sep 18 15:48	15° Ω			2100 1 20 22 20	00 - 22124	0010150
retrograde	3093 Dec 10 09:01	24° Ω 18'08	4.001.00	conjunction	3100 Jan 29 22:30	9°≈23'34	
min. Earth dist.	3094 Feb 07 07:17	19° £ 23'42		minimum elong	3100 Jan 29 22:29	9°≈23'33	U~18'58
opposition	3094 Feb 08 04:37	19° Ω 16'32	0°42'24	morning rise	3100 Feb 11 16:30	12° ≈ 22'19	
	3094 Mar 18 18:01	15°R Ω			3100 Feb 23 02:03	15° ≈	
direct	3094 Apr 09 10:25	14° Ω 14'49			3100 May 18 15:42	0° ℋ	
	3094 May 01 08:53	15° Ω		retrograde	3100 Jun 19 14:43	1°) 34'30	
	3094 Aug 03 08:18	0° m			3100 Jul 21 14:56	30° R ≈	
evening set	3094 Aug 14 04:10	2° m 20'30		opposition	3100 Aug 19 02:45	26° ≈ 38'58	-0°53'15
Č	<u> </u>	•		min. Earth dist.	3100 Aug 19 21:35	26° ≈ 32'51	4.06871 AU
conjunction	3094 Aug 27 16:19	5° m 17'59	0°43'12	direct	3100 Oct 18 02:09	21°≈43'53	
minimum elong	3094 Aug 27 16:17	5° m ₂ 17'58	0°43'12	**********	3101 Jan 01 19:08	0° ∺	
max. Earth dist.	3094 Aug 28 12:15		6.34812 AU	evening set	3101 Jan 01 19:08 3101 Feb 20 11:33	11° X 00'36	
man. Darui Uist.	3077 Aug 20 12.13	J 111/2033	0.57012 AU	evening set	51011 00 20 11.55	11 /(00 30	

conjunction	3101 Mar 05 09:17	14° ¥ 06′23 -0°49′19
minimum elong	3101 Mar 05 09:16	14° ¥ 06′21 0°49′19
max. Earth dist.	3101 Mar 04 21:43	13° ¥ 59′25 6.00795 AU
morning rise	3101 Mar 18 09:05	17° ¥ 13′27
	3101 May 15 20:46	$0^{\circ}\mathbf{\Upsilon}$
retrograde	3101 Jul 27 12:02	7° Ƴ '30'14
opposition	3101 Sep 25 14:13	2° Y '31'04 -1°28'16
min. Earth dist.	3101 Sep 25 09:15	2° Υ '32'43 3.96391 AU
	3101 Oct 15 13:18	30° ₹ ₩
direct	3101 Nov 23 04:08	27° ¥ 37′22
	3101 Dec 31 06:13	0 ° $\mathbf{\Upsilon}$