opposition	5600 Jan 03 23:22	13°520'42 -14°26'39	conjunction	5606 Jul 08 04:54	19°\$24'54 -12°51'34
min. Earth dist.	5600 Jan 03 13:39	13°521'09 48.30306 AU	minimum elong	5606 Jul 08 05:05	19°\$24'54 12°51'34
direct	5600 Mar 25 17:57	12°\$22'24	max. Earth dist.	5606 Jul 08 08:24	19°525'05 49.94622 AU
evening set	5600 Jun 25 17:48	13° <b>©</b> 39'11	morning rise	5606 Jul 16 10:44	19° <b>©</b> 36'03
C			retrograde	5606 Oct 18 17:06	20°953'25
conjunction	5600 Jul 01 23:08	13°5647'35 -13°48'15	opposition	5607 Jan 10 05:09	19°954'16 -13°18'06
minimum elong	5600 Jul 01 23:18	13°5647'36 13°48'17	min. Earth dist.	5607 Jan 10 02:13	19°954'24 47.96725 AU
max. Earth dist.	5600 Jul 02 10:14	13°548'13 50.22451 AU	direct	5607 Apr 01 20:12	18° <b>©</b> 55'49
morning rise	5600 Jul 08 05:12	13° <b>©</b> 56'03	evening set	5607 Jun 30 22:20	20° <b>©</b> 09'53
retrograde	5600 Oct 12 09:34	15° <b>©</b> 15'57	212		
opposition	5601 Jan 04 03:35	14°516'48 -14°17'34	conjunction	5607 Jul 09 10:11	20°521'22 -12°41'22
min. Earth dist.	5601 Jan 03 17:53	14°S17'15 48.26542 AU	minimum elong	5607 Jul 09 10:22	20°\$21'23 12°41'24
direct	5601 Mar 26 21:20	13°S18'28	max. Earth dist.	5607 Jul 09 13:10	20°521'32 49.88416 AU
evening set	5601 Jun 26 14:05	14°534'47	morning rise	5607 Jul 17 23:05	20°932'55
evening set	3001 Juli 20 14.03	14 35447	retrograde	5607 Oct 19 20:47	21°\$49'56
conjunction	5601 Jul 03 03:56	14°5643'40 -13°39'23	opposition	5608 Jan 11 09:35	20°\$50'44 -13°07'26
minimum elong	5601 Jul 03 04:07	14°5643'41 13°39'24	min. Earth dist.	5608 Jan 11 08:08	20°950'48 47.90115 AU
max. Earth dist.	5601 Jul 03 13:06	14°9544'11 50.18672 AU	direct	5608 Apr 02 01:04	19° <b>9</b> 52'14
morning rise	5601 Jul 09 18:44	14°952'37	evening set	5608 Jun 30 20:36	21° <b>©</b> 05'59
retrograde	5601 Oct 13 17:30	14 <b>9</b> 32 37 16° <b>9</b> 12'02	evening set	3006 Juli 30 20.30	21 3003 39
opposition	5602 Jan 05 07:47	15°9512'52 -14°08'15	agniumation	5608 Jul 09 15:13	21° <b>©</b> 17'52 -12°30'58
min. Earth dist.	5602 Jan 04 23:12		conjunction		
		15°©13'16 48.22494 AU 14°©14'31	minimum elong	5608 Jul 09 15:23	21°S17'53 12°30'59
direct	5602 Mar 27 21:42		max. Earth dist.	5608 Jul 09 16:21	21°5017'56 49.81708 AU
evening set	5602 Jun 27 10:41	15° <b>©</b> 30'24	morning rise	5608 Jul 18 11:01	21°529'48
	5.00 X 1 04 00 55	150000116 10000116	retrograde	5608 Oct 20 00:33	22°546'28
conjunction	5602 Jul 04 08:55	15°539'46 -13°30'16	opposition	5609 Jan 11 13:56	21°547'14 -12°56'33
minimum elong	5602 Jul 04 09:06	15°539'47 13°30'18	min. Earth dist.	5609 Jan 11 12:55	21°5647'17 47.83021 AU
max. Earth dist.	5602 Jul 04 18:05	15°540'17 50.14600 AU	direct	5609 Apr 03 05:48	20°5548'40
morning rise	5602 Jul 11 08:01	15°549'10	evening set	5609 Jul 01 19:02	22° <b>©</b> 02'07
retrograde	5602 Oct 14 20:16	17° <b>©</b> 08'08			
opposition	5603 Jan 06 12:02	16°508'59 -13°58'40	conjunction	5609 Jul 10 20:26	22°514'22 -12°20'22
min. Earth dist.	5603 Jan 06 04:33	16°509'20 48.18132 AU	minimum elong	5609 Jul 10 20:37	22°5014'22 12°20'24
direct	5603 Mar 29 02:56	15°S10'37	max. Earth dist.	5609 Jul 10 20:10	22°5014'21 49.74520 AU
evening set	5603 Jun 28 07:33	16°\$26'06	morning rise	5609 Jul 19 23:06	22° <b>©</b> 26'41
		=	retrograde	5609 Oct 21 04:59	23°5643'01
conjunction	5603 Jul 05 13:40	16°935'55 -13°20'55	opposition	5610 Jan 12 18:16	22°543'44 -12°45'26
minimum elong	5603 Jul 05 13:52	16°935'55 13°20'56	min. Earth dist.	5610 Jan 12 19:24	22°5643'41 47.75485 AU
max. Earth dist.	5603 Jul 05 21:31	16° <b>©</b> 36'21 50.10220 AU	direct	5610 Apr 04 12:07	21° <b>©</b> 45'06
morning rise	5603 Jul 12 20:46	16°9545'46	evening set	5610 Jul 02 17:45	22° <b>©</b> 58'15
retrograde	5603 Oct 15 22:32	18° <b>©</b> 04'18			
opposition	5604 Jan 07 16:14	17° <b>©</b> 05'09 -13°48'52	conjunction	5610 Jul 12 01:43	23° <b>©</b> 10'52 -12°09'32
min. Earth dist.	5604 Jan 07 08:58	17° <b>©</b> 05'30 48.13441 AU	minimum elong	5610 Jul 12 01:54	23°S10'53 12°09'33
direct	5604 Mar 29 08:45	16° <b>©</b> 06'47	max. Earth dist.	5610 Jul 12 01:08	23°S10'50 49.66933 AU
evening set	5604 Jun 28 04:42	17° <b>©</b> 21'54	morning rise	5610 Jul 21 10:50	23° <b>©</b> 23'35
			retrograde	5610 Oct 22 10:50	24° <b>©</b> 39'35
conjunction	5604 Jul 05 18:38	17° <b>©</b> 32'08 -13°11'21	opposition	5611 Jan 13 22:34	23°540'15 -12°34'06
minimum elong	5604 Jul 05 18:49	17° <b>©</b> 32'09 13°11'22	min. Earth dist.	5611 Jan 13 23:49	23°540'12 47.67568 AU
max. Earth dist.	5604 Jul 06 01:11	17° <b>©</b> 32'31 50.05469 AU	direct	5611 Apr 05 16:27	22°9541'33
morning rise	5604 Jul 13 09:37	17° <b>©</b> 42'27	evening set	5611 Jul 03 16:26	23°954'26
retrograde	5604 Oct 16 03:54	19° <b>©</b> 00'35			
opposition	5605 Jan 07 20:34	18° <b>©</b> 01'26 -13°38'49	conjunction	5611 Jul 13 06:42	24° <b>5</b> 07'26 -11°58'29
min. Earth dist.	5605 Jan 07 15:26	18°901'41 48.08356 AU	minimum elong	5611 Jul 13 06:53	24° <b>5</b> 07'26 11°58'31
direct	5605 Mar 30 14:12	17° <b>5</b> 03'03	max. Earth dist.	5611 Jul 13 04:05	24°507'17 49.58987 AU
evening set	5605 Jun 29 02:20	18° <b>©</b> 17'49	morning rise	5611 Jul 22 22:22	24°\$20'30
			retrograde	5611 Oct 23 19:08	25° <b>©</b> 36'13
conjunction	5605 Jul 06 23:47	18°528'28 -13°01'34	opposition	5612 Jan 15 03:00	24°\$36'50 -12°22'31
minimum elong	5605 Jul 06 23:59	18°\$28'29 13°01'35	min. Earth dist.	5612 Jan 15 05:30	24°536'43 47.59329 AU
max. Earth dist.	5605 Jul 07 05:47	18° <b>©</b> 28'49 50.00299 AU	direct	5612 Apr 05 17:02	23° <b>9</b> 38'05
morning rise	5605 Jul 14 22:12	18° <b>©</b> 39'13	evening set	5612 Jul 03 15:20	24°950'42
retrograde	5605 Oct 17 09:30	19° <b>9</b> 56'58			
opposition	5606 Jan 09 00:49	18°957'49 -13°28'34	conjunction	5612 Jul 13 11:59	25°904'04 -11°47'12
min. Earth dist.	5606 Jan 08 20:06	18°958'02 48.02798 AU	minimum elong	5612 Jul 13 12:11	25°504'05 11°47'13
direct	5606 Mar 31 18:27	17° <b>9</b> 59'24	max. Earth dist.	5612 Jul 13 09:25	25°503'55 49.50735 AU
evening set	5606 Jun 30 00:15	19° <b>©</b> 13'49	morning rise	5612 Jul 23 09:54	25°517'30
			retrograde	5612 Oct 23 23:23	26° <b>©</b> 32'57

page 2

min. Earth dist.

5619 Jan 21 20:07

1°**Ω**17'41 46.92714 AU

morning rise

5625 Aug 08 11:57

7°**£**55′22

retrograde	5625 Nov 05 23:54	9° <b>Ω</b> 08'30	conjunction	5632 Aug 02 15:44	14° <b>Ω</b> 39'39 -7°13'05
opposition	5626 Jan 27 22:20	8° <b>Ω</b> 08'13 -9°15'21	minimum elong	5632 Aug 02 15:53	14° <b>Ω</b> 39'39 7°13'05
min. Earth dist.	5626 Jan 28 14:49	8° <b>Ω</b> 07'26 46.04984 AU	· ·	5632 Aug 01 13:20	14° <b>Ω</b> 38'06 47.06615 AU
direct	5626 Apr 19 14:55	7° <b>Ω</b> 08'15	morning rise	5632 Aug 16 17:51	14° <b>Ω</b> 59'26
evening set	5626 Jul 14 22:31	8° <b>Ω</b> 18′53		5632 Aug 17 03:40	15° <b>Ω</b>
			retrograde	5632 Nov 13 05:46	16° <b>Ω</b> 12'25
conjunction	5626 Jul 27 21:54	8° <b>Ω</b> 36'49 -8°45'08	opposition	5633 Feb 03 14:49	15° <b>Ω</b> 11'28 -7°23'48
minimum elong	5626 Jul 27 22:04	8° <b>Ω</b> 36'49 8°45'10	min. Earth dist.	5633 Feb 04 15:52	15° <b>Ω</b> 10'14 44.99909 AU
max. Earth dist.	5626 Jul 27 02:23	8° <b>Ω</b> 35'41 47.95757 AU		5633 Feb 13 10:58	15°R <b>Ω</b>
morning rise	5626 Aug 09 23:05	8° <b>Ω</b> 54'51	direct	5633 Apr 26 01:05	14° <b>Ω</b> 10'38
retrograde	5626 Nov 07 08:43	10° <b>Ω</b> 07'55		5633 Jul 04 16:48	15° <b>Ω</b>
opposition	5627 Jan 29 03:48	9° <b>Ω</b> 07'32 -9°00'10	evening set	5633 Jul 20 18:53	15° <b>Ω</b> 21'26
min. Earth dist.	5627 Jan 29 21:48	9° <b>Ω</b> 06'40 45.91159 AU			
direct	5627 Apr 20 17:52	8° <b>Ω</b> 07'28	conjunction	5633 Aug 03 23:13	15° <b>Ω</b> 41'23 -6°56'56
evening set	5627 Jul 16 00:22	9° <b>Ω</b> 18′04	minimum elong	5633 Aug 03 23:22	15° <b>Ω</b> 41'24 6°56'57
max. Earth dist.	5627 Jul 28 08:52	9° <b>Ω</b> 35'10 47.81917 AU	max. Earth dist.	5633 Aug 02 18:53	15° <b>Ω</b> 39'43 46.90123 AU
			morning rise	5633 Aug 18 05:12	16° <b>Ω</b> 01'27
conjunction	5627 Jul 29 04:23	9° <b>Ω</b> 36′18 -8°30′23	retrograde	5633 Nov 14 13:41	17° <b>Ω</b> 14'27
minimum elong	5627 Jul 29 04:34	9° <b>Ω</b> 36'19 8°30'24	opposition	5634 Feb 04 20:54	16° <b>Ω</b> 13'20 -7°06'52
morning rise	5627 Aug 11 09:54	9° <b>£</b> 54'39	min. Earth dist.	5634 Feb 05 22:50	16° <b>Ω</b> 12'04 44.83082 AU
retrograde	5627 Nov 08 16:00	11° <b>Ω</b> 07'39	direct	5634 Apr 27 06:37	15° <b>Ω</b> 12'19
opposition	5628 Jan 30 09:21	10° <b>Ω</b> 07'12 -8°44'43	evening set	5634 Jul 21 22:51	16° <b>Ω</b> 23'12
min. Earth dist.	5628 Jan 31 04:08	10° <b>Ω</b> 06'18 45.77023 AU	max. Earth dist.	5634 Aug 04 01:10	16° <b>Ω</b> 41'40 46.73212 AU
direct	5628 Apr 20 22:25	9° <b>Ω</b> 07'01			
evening set	5628 Jul 16 02:48	10° <b>Ω</b> 17'38	conjunction	5634 Aug 05 06:52	16° <b>Ω</b> 43'26 -6°40'32
			minimum elong	5634 Aug 05 07:00	16° <b>Ω</b> 43'26 6°40'32
conjunction	5628 Jul 29 11:04	10° <b>Ω</b> 36′10 -8°15′23	morning rise	5634 Aug 19 16:26	17° <b>Ω</b> 03'46
minimum elong	5628 Jul 29 11:13	10° <b>Ω</b> 36'11 8°15'25	retrograde	5634 Nov 15 18:24	18° <b>Ω</b> 16'47
max. Earth dist.	5628 Jul 28 13:56	10° <b>Ω</b> 34'56 47.67761 AU		5635 Feb 06 03:21	17° <b>Ω</b> 15'31 -6°49'41
morning rise	5628 Aug 11 21:02	10° <b>Ω</b> 54'48	min. Earth dist.	5635 Feb 07 07:03	17° <b>Ω</b> 14'09 44.65874 AU
retrograde	5628 Nov 08 23:33	12° <b>Ω</b> 07'47	direct	5635 Apr 28 15:50	16° <b>Ω</b> 14'19
opposition	5629 Jan 30 14:51	11° <b>Ω</b> 07'15 -8°29'01	evening set	5635 Jul 23 02:52	17° <b>Ω</b> 25'16
min. Earth dist.	5629 Jan 31 10:16	11° <b>Ω</b> 06'19 45.62545 AU	max. Earth dist.	5635 Aug 05 08:29	17° <b>Ω</b> 43'59 46.55964 AU
direct	5629 Apr 22 03:08	10° <b>Ω</b> 06'58	. ,.	5625 4 06 14 26	170 0 45146 (000)50
evening set	5629 Jul 17 05:29	11° <b>Ω</b> 17'37	conjunction	5635 Aug 06 14:26	17°Ω45'46 -6°23'53
. ,.	5(20 I I 20 10 02	110 02 (127 0000100	minimum elong	5635 Aug 06 14:35	17° <b>Ω</b> 45'46 6°23'55
conjunction	5629 Jul 30 18:02	11° <b>Q</b> 36'27 -8°00'09	morning rise	5635 Aug 21 03:26	18° <b>Ω</b> 06'22
minimum elong max. Earth dist.	5629 Jul 30 18:12 5629 Jul 29 19:28	11° <b>Ω</b> 36'27 8°00'10 11° <b>Ω</b> 35'08 47.53199 AU	retrograde	5635 Nov 16 23:49 5636 Feb 07 09:46	19° <b>Ω</b> 19'26 18° <b>Ω</b> 18'00 -6°32'14
			opposition min. Earth dist.		18° <b>Ω</b> 16'39 44.48354 AU
morning rise retrograde	5629 Aug 13 08:16 5629 Nov 10 05:09	11° <b>Ω</b> 55'23 13° <b>Ω</b> 08'21	direct	5636 Feb 08 13:22 5636 Apr 29 00:19	17° <b>Ω</b> 16'37
opposition	5630 Jan 31 20:43	$13^{\circ} \Omega 0821$ $12^{\circ} \Omega 07'44 - 8^{\circ} 13'05$	evening set	5636 Jul 23 07:26	18° <b>Ω</b> 27'39
min. Earth dist.	5630 Feb 01 18:20	$12^{\circ}\Omega06'42 + 45.47627 \text{ AU}$	_	3030 Jul 23 07.20	10 062/39
direct	5630 Apr 23 09:59	11° <b>Ω</b> 07'21	conjunction	5636 Aug 06 22:15	18° <b>Ω</b> 48'25 -6°07'00
evening set	5630 Jul 18 08:27	12° <b>Ω</b> 18'01	minimum elong	5636 Aug 06 22:23	18° <b>Ω</b> 48'26 6°07'00
max. Earth dist.	5630 Jul 31 01:49	12° $Ω$ 35'46 47.38176 AU	•	5636 Aug 05 14:19	18° <b>Ω</b> 46'31 46.38419 AU
max. Earth dist.	3030 vai 31 01.19	12 0033 10 17.30170110	morning rise	5636 Aug 21 14:45	19°Ω09'18
conjunction	5630 Aug 01 01:11	12° <b>Ω</b> 37'08 -7°44'42	retrograde	5636 Nov 17 09:05	20° <b>£</b> 22′26
minimum elong	5630 Aug 01 01:20	12° <b>Ω</b> 37'09 7°44'42	opposition	5637 Feb 07 16:22	19° <b>Ω</b> 20'50 -6°14'31
morning rise	5630 Aug 14 19:24	12° <b>Ω</b> 56′22	min. Earth dist.	5637 Feb 08 21:38	19° <b>Ω</b> 19'23 44.30575 AU
retrograde	5630 Nov 11 10:56	14° <b>Ω</b> 09'20	direct	5637 Apr 30 05:12	18° <b>Ω</b> 19'16
opposition	5631 Feb 02 02:31	13° <b>Ω</b> 08'38 -7°56'53	evening set	5637 Jul 24 12:08	19° <b>Ω</b> 30′24
min. Earth dist.	5631 Feb 03 00:32	13° <b>Ω</b> 07'33 45.32219 AU	-	5637 Aug 06 22:29	19° <b>Ω</b> 49'32 46.20624 AU
direct	5631 Apr 24 17:15	12° <b>Ω</b> 08'06			
evening set	5631 Jul 19 11:45	13° <b>Ω</b> 18'49	conjunction	5637 Aug 08 06:24	19° <b>Ω</b> 51'26 -5°49'51
max. Earth dist.	5631 Aug 01 06:24	13° <b>Ω</b> 36'41 47.22645 AU	minimum elong	5637 Aug 08 06:32	19° <b>Ω</b> 51'27 5°49'52
			morning rise	5637 Aug 23 01:59	20° <b>Ω</b> 12'35
conjunction	5631 Aug 02 08:21	13° <b>Ω</b> 38'13 -7°29'00	retrograde	5637 Nov 18 18:14	21° <b>Ω</b> 25'48
minimum elong	5631 Aug 02 08:31	13° <b>Ω</b> 38'14 7°29'01	opposition	5638 Feb 08 23:09	20° <b>Q</b> 24′02 -5°56′32
morning rise	5631 Aug 16 06:44	13° <b>Ω</b> 57'44	min. Earth dist.	5638 Feb 10 04:48	20° <b>Ω</b> 22'34 44.12554 AU
	5631 Oct 12 06:24	15° <b>Ω</b>	direct	5638 May 01 10:53	19° <b>Ω</b> 22'17
retrograde	5631 Nov 12 21:20	15° <b>Ω</b> 10'42	evening set	5638 Jul 25 17:16	20° <b>ん</b> 33'34
	5631 Dec 14 15:15	15° <b>ŖΩ</b>	max. Earth dist.	5638 Aug 08 05:05	20° <b>Ω</b> 52'51 46.02607 AU
opposition					
	5632 Feb 03 08:38	14° <b>Ω</b> 09'53 -7°40'28			
min. Earth dist.		14° <b>Ω</b> 09'53 -7°40'28 14° <b>Ω</b> 08'43 45.16311 AU	3	5638 Aug 09 14:30	20° <b>Ω</b> 54'52 -5°32'26
direct	5632 Feb 03 08:38 5632 Feb 04 08:37 5632 Apr 24 20:17	14° <b>\O</b> 09'53 -7°40'28 14° <b>\O</b> 08'43 45.16311 AU 13° <b>\O</b> 09'13	minimum elong	5638 Aug 09 14:38	20° <b>Ω</b> 54'52 5°32'26
	5632 Feb 03 08:38 5632 Feb 04 08:37	14° <b>Ω</b> 09'53 -7°40'28 14° <b>Ω</b> 08'43 45.16311 AU	3	=	

retrograde	5638 Nov 20 05:18	22° <b>Ω</b> 29'35		conjunction	5645 Aug 17 06:37	28° <b>Ω</b> 33'23	-3°23'27
opposition	5639 Feb 10 06:03	21° <b>Q</b> 27'40	-5°38'16	minimum elong	5645 Aug 17 06:42	28° <b>Ω</b> 33'23	3°23'27
min. Earth dist.	5639 Feb 11 12:09	• • •	43.94323 AU	morning rise	5645 Sep 01 22:56	28° <b>Ω</b> 56′29	
direct	5639 May 02 15:19	20° <b>Ω</b> 25'44			5645 Oct 27 13:56	0° <b>™</b>	
evening set	5639 Jul 26 22:37	21° <b>Ω</b> 37'12		retrograde	5645 Nov 27 20:20	0° mp 11'06	
	5600 4 40 00 55	212 0 50145	501.444	•.•	5645 Dec 29 07:26	30°R€	2022110
conjunction	5639 Aug 10 22:55	21°Ω58'45		opposition	5646 Feb 17 12:26	29° <b>Ω</b> 07'58	
minimum elong max. Earth dist.	5639 Aug 10 23:02	21° <b>\O</b> 58'45	5°14'47' 45.84360 AU	min. Earth dist. direct	5646 Feb 19 02:14	29° <b>∂</b> 106'03 28° <b>Ω</b> 04'34	42.57265 AU
	5639 Aug 09 12:40 5639 Aug 26 00:36	$21^{\circ}0.3641$ $22^{\circ}\Omega 20'24$	45.84300 AU	evening set	5646 May 09 22:20	28° <b>Ω</b> 17'44	
morning rise retrograde	5639 Nov 21 13:41	22 <b>δι</b> 20 24 23° <b>Ω</b> 33'51		max. Earth dist.	5646 Aug 02 23:30 5646 Aug 16 20:50		44.46572 AU
opposition	5640 Feb 11 13:16	$23^{\circ} \Omega 33^{\circ} 1$ $22^{\circ} \Omega 31'48$	-5°19'43	max. Earth dist.	3040 Aug 10 20.30	29 063610	44.40372 AU
min. Earth dist.	5640 Feb 12 20:58		43.75855 AU	conjunction	5646 Aug 18 16:35	29° <b>Ω</b> 40'59	-3°04'02
direct	5640 May 02 22:21	21° <b>Ω</b> 29'41	13.73033 110	minimum elong	5646 Aug 18 16:39	29° <b>Ω</b> 40'59	
evening set	5640 Jul 27 04:18	22°Ω41'20		minimum crong	5646 Aug 31 12:09	0°m/	3 0102
max. Earth dist.	5640 Aug 09 20:50		45.65867 AU	morning rise	5646 Sep 03 10:50	0° Mp 04'18	
				retrograde	5646 Nov 29 05:53	1° <b>m</b> )19'11	
conjunction	5640 Aug 11 07:31	23° <b>Ω</b> 03'09	-4°56'50	opposition	5647 Feb 18 21:05	0° m 15'50	-3°02'23
minimum elong	5640 Aug 11 07:39	23° <b>Ω</b> 03'09	4°56'51	min. Earth dist.	5647 Feb 20 12:53		42.36125 AU
morning rise	5640 Aug 26 12:01	23° <b>Ω</b> 25′03			5647 Mar 03 21:22	30°R <b>Ω</b>	
retrograde	5640 Nov 21 19:39	24° <b>Ω</b> 38'40		direct	5647 May 11 06:33	29° <b>Ω</b> 12'11	
opposition	5641 Feb 11 20:32	23° <b>Ω</b> 36′28	-5°00'54		5647 Jul 16 19:33	0° <b>™</b>	
min. Earth dist.	5641 Feb 13 04:18	23° <b>Ω</b> 34'52	43.57104 AU	evening set	5647 Aug 04 07:53	0° <b>™</b> 25'39	
direct	5641 May 04 07:57	22° <b>Ω</b> 34′10		max. Earth dist.	5647 Aug 18 07:09	0° Mp 46′23	44.25350 AU
evening set	5641 Jul 28 10:39	23° <b>Ω</b> 46′03					
max. Earth dist.	5641 Aug 11 03:29	24° <b>Ω</b> 05'51	45.47037 AU	conjunction	5647 Aug 20 02:54	0° <b>™</b> 49'07	
				minimum elong	5647 Aug 20 02:58	0° <b>™</b> 49'07	2°44'21
conjunction	5641 Aug 12 16:27	24° <b>Ω</b> 08'06		morning rise	5647 Sep 04 22:43	1° Mp 12′39	
minimum elong	5641 Aug 12 16:33	24° <b>Ω</b> 08'06	4°38'40	retrograde	5647 Nov 30 15:24	2° <b>m</b> 27'49	
morning rise	5641 Aug 27 23:43	24° <b>Ω</b> 30′16		opposition	5648 Feb 20 05:50	1°Mp24'14	
retrograde	5641 Nov 23 04:48	25° <b>Ω</b> 44'03		min. Earth dist.	5648 Feb 21 21:48		42.14708 AU
opposition	5642 Feb 13 04:03	24°Ω41'42		direct	5648 May 11 15:20	0° Tp 20'20	
min. Earth dist.	5642 Feb 14 13:53		43.37997 AU	evening set	5648 Aug 04 16:48	1° Mp 34'09	44.02077.441
direct	5642 May 05 14:46 5642 Jul 29 17:15	23°Ω39'13 24°Ω51'19		max. Earth dist.	5648 Aug 18 15:42	1°11/054'5/	44.03877 AU
evening set max. Earth dist.			45.27810 AU	agnismation	5649 Aug 20 12:17	1° <b>m</b> 57'49	2024125
max. Earm dist.	5642 Aug 12 12:31	23 661121	43.27810 AU	conjunction minimum elong	5648 Aug 20 13:17 5648 Aug 20 13:21	1°M) 57'49	
conjunction	5642 Aug 14 01:45	25° <b>Ω</b> 13'38	4°20'14	morning rise	5648 Sep 05 10:50	2° m) 21'34	2 24 23
minimum elong	5642 Aug 14 01:52	25° <b>Ω</b> 13'38		retrograde	5648 Dec 01 05:13	3° m) 37'03	
morning rise	5642 Aug 29 11:21	25° <b>Ω</b> 36'02	4 20 14	opposition	5649 Feb 20 14:54	2° m/33'14	-2°20'42
retrograde	5642 Nov 24 14:29	26°Ω50'01		min. Earth dist.	5649 Feb 22 07:48	-	41.93075 AU
opposition	5643 Feb 14 11:53	25° <b>Ω</b> 47'29	-4°22'28	direct	5649 May 12 21:01	1° m 29'04	
min. Earth dist.	5643 Feb 15 22:27		43.18460 AU	evening set	5649 Aug 06 02:10	2° m 43'17	
direct	5643 May 06 21:23	24° <b>Ω</b> 44'49		max. Earth dist.	5649 Aug 20 02:07	-	43.82182 AU
evening set	5643 Jul 31 00:12	25° <b>Ω</b> 57'09			•		
max. Earth dist.	5643 Aug 13 19:32	26° <b>Ω</b> 17'17	45.08145 AU	conjunction	5649 Aug 22 00:10	3° <b>m</b> 07'10	-2°04'13
				minimum elong	5649 Aug 22 00:13	3° <b>™</b> 07'10	2°04'13
conjunction	5643 Aug 15 10:58	26° <b>Ω</b> 19'42	-4°01'33	morning rise	5649 Sep 06 22:54	3° <b>™</b> 31'07	
minimum elong	5643 Aug 15 11:04	26° <b>Ω</b> 19'42	4°01'33	retrograde	5649 Dec 02 17:09	4° Mp 46′56	
morning rise	5643 Aug 30 23:06	26° <b>Ω</b> 42′20		opposition	5650 Feb 22 00:11	3° <b>m</b> 42'54	
retrograde	5643 Nov 26 02:21	27° <b>Ω</b> 56'32		min. Earth dist.	5650 Feb 23 18:13	-	41.71244 AU
opposition	5644 Feb 15 19:55	26° <b>Ω</b> 53'49		direct	5650 May 14 05:12	2° m/38'29	
min. Earth dist.	5644 Feb 17 07:42		42.98487 AU	evening set	5650 Aug 07 11:59	3° My 53'07	42 (0222 444
direct	5644 May 07 03:04	25° <b>Ω</b> 50'54		max. Earth dist.	5650 Aug 21 12:28	4° IID 14'14	43.60322 AU
evening set	5644 Jul 31 07:34	27°Ω03'30	44 00022 ATT	agnismation	5650 Aug 22 11:11	40 ms 17!10	1942146
max. Earth dist.	5644 Aug 14 03:58	21 062341	44.88022 AU	conjunction minimum elong	5650 Aug 23 11:11 5650 Aug 23 11:14	4° Mp 17'12 4° Mp 17'12	
conjunction	5644 Aug 15 20:42	27° <b>Ω</b> 26'17	-3°42'37	morning rise	5650 Sep 08 11:09	4° Mp 41'21	1 +3 4 /
minimum elong	5644 Aug 15 20:48	$27^{\circ}\Omega 26'18$		retrograde	5650 Dec 04 03:35	5° My 57'32	
morning rise	5644 Aug 31 10:57	27° <b>Ω</b> 49'10	5 .= 57	opposition	5651 Feb 23 09:44	4° Mp 53'18	-1°37'54
retrograde	5644 Nov 26 11:38	29° <b>Ω</b> 03'34		min. Earth dist.	5651 Feb 25 03:38	-	41.49261 AU
opposition	5645 Feb 16 04:07	28°Ω00'38	-3°42'58	direct	5651 May 15 15:59	3° Mp 48'38	
min. Earth dist.	5645 Feb 17 17:42		42.78069 AU	evening set	5651 Aug 08 22:11	5° m 03'42	
direct	5645 May 08 12:18	26° <b>£</b> 57′30		max. Earth dist.	5651 Aug 22 22:05	-	43.38288 AU
evening set	5645 Aug 01 15:21	28° <b>Ω</b> 10′22			-	•	
max. Earth dist.	5645 Aug 15 12:59		44.67489 AU	conjunction	5651 Aug 24 22:22	5° <b>™</b> 28'00	-1°23'04
				minimum elong	5651 Aug 24 22:24	5° <b>™</b> 28'00	1°23'04

morning rise	5651 Sep 09 23:21	5° m/ 52'21		direct	5658 May 23 17:58	12° m 23'26	
retrograde	5651 Dec 05 13:41	7° Mp 08'57		evening set	5658 Aug 17 14:38	12 m/23 20 13° m/42'25	
•	5652 Feb 24 19:44	6° Mp 04'30	1016'05	•	•		41.75843 AU
opposition				max. Earth dist.	5658 Aug 31 07:08	14" 11004 03	41./3843 AU
min. Earth dist.	5652 Feb 26 15:18	-	41.27107 AU		5650.0 00 16.15	1.40 % 0.7150	1000145
direct	5652 May 16 02:35	4° Mp 59'36		conjunction	5658 Sep 02 16:15	14° Mp 07'52	
evening set	5652 Aug 09 08:58	6° Mp 15'09	10 1 (0 (7 1 1 1 1	minimum elong	5658 Sep 02 16:13	14° <b>m</b> 07'52	1°08'45
max. Earth dist.	5652 Aug 23 10:03	6° m) 36'33	43.16067 AU	morning rise	5658 Sep 18 18:07	14° Mp 33'21	
				retrograde	5658 Dec 14 10:03	15° <b>m</b> 53'29	
conjunction	5652 Aug 25 10:10	6° Mp 39′38		opposition	5659 Mar 05 01:55	14° <b>m</b> /47'14	
minimum elong	5652 Aug 25 10:12	6° <b>m</b> 39′38	1°02'08	min. Earth dist.	5659 Mar 07 04:58		39.63521 AU
morning rise	5652 Sep 10 11:49	7° <b>m</b> )04'11		direct	5659 May 25 04:24	13° <b>m</b> 40'15	
retrograde	5652 Dec 06 00:21	8° Mp 21'14		evening set	5659 Aug 19 05:20	14° <b>m</b> 59'52	
opposition	5653 Feb 25 05:46	7° Mp 16'35	-0°54'00	max. Earth dist.	5659 Sep 01 21:17	15° Mp 21'36	41.51336 AU
min. Earth dist.	5653 Feb 27 01:29	7° <b>M</b> ) 14'17	41.04737 AU				
direct	5653 May 17 12:26	6° Mp 11′26		conjunction	5659 Sep 04 06:24	15° Mp 25′26	1°31'23
evening set	5653 Aug 10 20:35	7° <b>m</b> 27'30		minimum elong	5659 Sep 04 06:22	15° Mp 25′26	1°31'23
max. Earth dist.	5653 Aug 24 19:56	7° <b>m</b> 48'55	42.93589 AU	morning rise	5659 Sep 20 07:19	15° <b>m</b> 51'02	
				retrograde	5659 Dec 15 23:34	17° <b>m</b> ) 11'47	
conjunction	5653 Aug 26 22:15	7° <b>m</b> 52'10	-0°40'54	opposition	5660 Mar 05 14:28	16° Mp 05'13	1°48'00
minimum elong	5653 Aug 26 22:16	7° m/52'10	0°40'54	min. Earth dist.	5660 Mar 07 18:06	16° Mp 02′24	39.38943 AU
morning rise	5653 Sep 12 00:37	8° m) 16'55		direct	5660 May 25 15:49	14° m 57'51	
retrograde	5653 Dec 07 14:47	9° m/34'25		evening set	5660 Aug 19 20:58	16° <b>m</b> 18'09	
opposition	5654 Feb 26 16:18	8° m/29'33	-0°31'39	max. Earth dist.	5660 Sep 02 10:26		41.26642 AU
min. Earth dist.	5654 Feb 28 13:37	=	40.82092 AU			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
direct	5654 May 18 19:48	7° <b>m</b> ) 24'10	.0.020,2110	conjunction	5660 Sep 04 20:57	16° Mp 43'50	1°54'14
evening set	5654 Aug 12 08:31	8° Mp 40'46		minimum elong	5660 Sep 04 20:54	16° Mp 43'50	1°54'14
max. Earth dist.	5654 Aug 26 07:45		42.70775 AU	morning rise	5660 Sep 20 20:57	17° m 09'33	1 3.11
max. Lattii dist.	3034 Aug 20 07.43	) iij02 10	42.70773 AO	retrograde	5660 Dec 16 16:35	18° Mp 30'56	
conjunction	5654 Aug 28 10:44	9° <b>m</b> 05'37	0010120	opposition	5661 Mar 07 03:12	17° Mp 24'02	2012/00
minimum elong	•	9°M)05'37		• •			39.14225 AU
Č	5654 Aug 28 10:45	-	0 1928	min. Earth dist.	5661 Mar 09 07:22		39.14223 AU
morning rise	5654 Sep 13 13:16	9° m/30'31		direct	5661 May 27 02:50	16° Mp 16'17	
retrograde	5654 Dec 09 04:52	10° Mp 48'32	0000100	evening set	5661 Aug 21 13:13	17° Mp 37'21	41.01002.444
opposition	5655 Feb 28 03:13	9° m/43'26		max. Earth dist.	5661 Sep 04 00:31	17° II) 59'05	41.01803 AU
min. Earth dist.	5655 Mar 02 01:45		40.59086 AU				
direct	5655 May 20 05:25	8° Mp 37'46		conjunction	5661 Sep 06 12:00	18° Mp 03′07	
asc. node	5655 Jul 23 03:37	9° <b>m</b> 23'48		minimum elong	5661 Sep 06 11:56	18° Mp 03′07	2°17'17
evening set	5655 Aug 13 21:12	9° <b>m</b> 54'56		morning rise	5661 Sep 22 10:33	18° Mp 28'55	
max. Earth dist.	5655 Aug 27 19:05	10° Mp 16'31	42.47599 AU	retrograde	5661 Dec 18 08:41	19° <b>m</b> 50'59	
				opposition	5662 Mar 08 16:36	18° <b>m</b> 43'45	2°36'33
conjunction	5655 Aug 29 23:33	10° <b>m</b> 19'57	0°02'19	min. Earth dist.	5662 Mar 10 22:02	18° <b>m</b> 40'49	38.89399 AU
minimum elong	5655 Aug 29 23:33	10° <b>m</b> 19'57	0°02'19	direct	5662 May 28 16:29	17° <b>m</b> 35'39	
behind sun begin	5655 Aug 29 17:03	10° <b>m</b> 19'33		evening set	5662 Aug 23 06:00	18° <b>™</b> 57'30	
behind sun end	5655 Aug 30 06:04	10° Mp 20'20		max. Earth dist.	5662 Sep 05 15:48	19° <b>m</b> 19'17	40.76889 AU
morning rise	5655 Sep 15 02:20	10° Mp 45'00					
retrograde	5655 Dec 10 20:51	12° <b>m</b> 03'31		conjunction	5662 Sep 08 03:16	19° <b>m</b> 23'21	2°40'34
opposition	5656 Feb 29 14:20	10° <b>m</b> 58'10	0°13'52	minimum elong	5662 Sep 08 03:11	19° <b>m</b> 23'21	2°40'34
min. Earth dist.	5656 Mar 02 13:27	10° <b>m</b> 55'39	40.35714 AU	morning rise	5662 Sep 24 00:11	19° <b>m</b> 49'13	
direct	5656 May 20 16:02	9° <b>m</b> 52'11		retrograde	5662 Dec 20 00:45	21°M 12'01	
evening set	5656 Aug 14 10:24	11° <b>m</b> )09'56		opposition	5663 Mar 10 06:14	20° m 04'29	3°01'10
max. Earth dist.	5656 Aug 28 06:24	11° mp 31'32	42.24026 AU	min. Earth dist.	5663 Mar 12 11:11	20° m 01'33	38.64522 AU
	C	•		direct	5663 May 30 07:23	18° <b>m</b> 56'01	
conjunction	5656 Aug 30 12:47	11° <b>m</b> 35'07	0°24'12	evening set	5663 Aug 24 23:40	20° m) 18'42	
minimum elong	5656 Aug 30 12:46	11° mp 35'07	0°24'12	max. Earth dist.	5663 Sep 07 05:54	-	40.51916 AU
morning rise	5656 Sep 15 15:28	12° m/00'20					
retrograde	5656 Dec 11 09:43	13° m) 19'22		conjunction	5663 Sep 09 19:01	20° m 44'38	3°04'02
opposition	5657 Mar 02 01:58	13° Mp 13'43	0°37'01	minimum elong	5663 Sep 09 18:56	20° m/ 44'38	3°04'01
min. Earth dist.	5657 Mar 04 03:14	=	40.11961 AU	morning rise	5663 Sep 25 14:06	21° mp 10'35	5 0401
direct	5657 May 22 04:03	12 mp 11 03 11° mp 07'25	10.11701 AU	retrograde	5663 Dec 21 16:06	21 m/1033 22° m/34'10	
	•			•		-	3°26'01
evening set	5657 Aug 20 10:35	12° Mp 25'46	42 00002 ATT	opposition	5664 Mar 10 20:23	21°Mp26'19	38.39607 AU
max. Earth dist.	5657 Aug 29 19:35	12 111/4/28	42.00093 AU	min. Earth dist.	5664 Mar 13 02:53		30.3900/ AU
	ECET 0 01 02 25	100m 5110 5	004622	direct	5664 May 30 20:05	20° m 17'31	
conjunction	5657 Sep 01 02:26	12° Mp 51'06	0°46'22	evening set	5664 Aug 25 17:58	21° Mp 41'05	40.26007 133
minimum elong	5657 Sep 01 02:24	12° m 51'05	0°46'21	max. Earth dist.	5664 Sep 07 22:35	22° lip 02'51	40.26887 AU
morning rise	5657 Sep 17 04:43	13° m) 16'27			# C C L O	220 = 5 = -	2025:11
retrograde	5657 Dec 12 20:22	14° m/36'01		conjunction	5664 Sep 10 11:23	22° Mp 07'05	3°27'41
opposition	5658 Mar 03 13:41	13° m/30'05	1°00'25	minimum elong	5664 Sep 10 11:17	22° Mp 07'04	3°27'42
min. Earth dist.	5658 Mar 05 15:07	13° <b>m</b> ) 27'25	39.87875 AU	morning rise	5664 Sep 26 04:10	22° My 33'04	

retrograde	5664 Dec 22 07:05	23° m 57'30	evening set	5671 Sep 07 03:09	1° <b>≙</b> 54'33
opposition	5665 Mar 12 10:56	22° m/49'21 3°51'03	max. Earth dist.	5671 Sep 19 00:32	2° <b>≙</b> 15'21 38.46949 AU
min. Earth dist.	5665 Mar 14 17:31	22° m/46'17 38.14612 A			
direct	5665 Jun 01 10:18	21° <b>m</b> ,40'12	conjunction	5671 Sep 21 20:17	2° <b>£</b> 20′20 6°17′37
evening set	5665 Aug 27 13:21	23° Mp 04'44	minimum elong	5671 Sep 21 20:06	2° <b>£</b> 20'20 6°17'37
max. Earth dist.	5665 Sep 09 13:33	23° <b>m</b> 26'23 40.01749 A	Č	5671 Oct 06 12:09 5672 Jan 02 20:04	2° <b>£</b> 46'05 4° <b>£</b> 17'37
conjunction	5665 Sep 12 04:09	23° <b>m</b> 30'46 3°51'31	retrograde opposition	5672 Mar 22 06:51	3° <b>♀</b> 07'01 6°51'19
minimum elong	5665 Sep 12 04:02	23° m/30'45 3°51'31	min. Earth dist.	5672 Mar 24 19:34	3° <b>2</b> 03'28 36.35059 AU
morning rise	5665 Sep 27 18:32	23° m 56'47	direct	5672 Jun 10 23:17	1° <b>2</b> 55'04
retrograde	5665 Dec 24 02:16	25° m 22'07	evening set	5672 Sep 08 04:45	3° <b>£</b> 27'32
opposition	5666 Mar 14 01:53	24° m 13'40 4°16'18	max. Earth dist.	5672 Sep 19 19:48	3° <b>≏</b> 48'03 38.20742 AU
min. Earth dist.	5666 Mar 16 09:30	24° m/10'32 37.89501 A	AU	-	
direct	5666 Jun 02 21:41	23° Mp 04'10	conjunction	5672 Sep 22 16:46	3° <b>≙</b> 53'11 6°42'20
evening set	5666 Aug 29 09:26	24° <b>m</b> 29'43	minimum elong	5672 Sep 22 16:33	3° <b>£</b> 53'10 6°42'21
max. Earth dist.	5666 Sep 11 06:28	24° m 51'18 39.76437 A	•	5672 Oct 07 03:45	4° <b>£</b> 18'47
			retrograde	5673 Jan 03 18:30	5° <b>£</b> 51'31
conjunction	5666 Sep 13 21:36	24° m 55'45 4°15'31	opposition	5673 Mar 24 01:27	4° <b>△</b> 40'31 7°17'34
minimum elong	5666 Sep 13 21:28	24° m 55'45 4°15'32	min. Earth dist.	5673 Mar 26 14:22	4° <b>2</b> 36′56 36.09047 AU
morning rise	5666 Sep 29 08:59	25° Tp 21'48	direct	5673 Jun 12 14:54	3° <b>£</b> 28'06
retrograde	5666 Dec 25 20:20	26° m/48'03 25° m/39'18 4°41'44	evening set max. Earth dist.	5673 Sep 10 07:13	5° <b>£</b> 01'55
opposition min. Earth dist.	5667 Mar 15 17:33 5667 Mar 18 02:24	25° m 39'18 4°41'44 25° m 36'05 37.64201 A		5673 Sep 21 16:33	5° <b>£</b> 22'12 37.94565 AU
direct	5667 Jun 04 11:20	24° m) 29'27	conjunction	5673 Sep 24 13:55	5° <b>£</b> 27'24 7°07'06
evening set	5667 Aug 31 06:20	25° m 56'02	minimum elong	5673 Sep 24 13:42	5° <b>£</b> 27'23 7°07'06
max. Earth dist.	5667 Sep 12 23:16	26° m/ 17'30 39.50928 A	_	5673 Oct 08 19:17	5° <b>≙</b> 52'49
			retrograde	5674 Jan 05 16:30	7° <b>Ω</b> 26'49
conjunction	5667 Sep 15 15:21	26° m 22'04 4°39'40	opposition	5674 Mar 25 20:45	6° <b>£</b> 15'25 7°43'52
minimum elong	5667 Sep 15 15:13	26° m/22'03 4°39'40	min. Earth dist.	5674 Mar 28 10:36	6° <b>≙</b> 11'45 35.83115 AU
morning rise	5667 Sep 30 23:39	26° m/48'06	direct	5674 Jun 14 09:40	5° <b>ჲ</b> 02'33
retrograde	5667 Dec 27 16:39	28° Mp 15'20	evening set	5674 Sep 12 10:47	6° <b>£</b> 37'46
opposition	5668 Mar 16 09:35	27° mg 06'14 5°07'21	max. Earth dist.	5674 Sep 23 14:27	6° <b>≙</b> 57'49 37.68513 AU
min. Earth dist.	5668 Mar 18 18:41	27° m 02'59 37.38697 A			
direct	5668 Jun 05 04:17	25° m 56'00	conjunction	5674 Sep 26 11:34	7° <b>£</b> 03'03 7°31'53
evening set	5668 Sep 01 04:17	27° m 23'40	minimum elong	5674 Sep 26 11:19	7° <b>△</b> 03'02 7°31'53
max. Earth dist.	5668 Sep 13 15:53	27° m 44'58 39.25181 A	Č	5674 Oct 10 11:03	7° <b>£</b> 28'16
agniumation	5668 Sep 16 09:52	27° m 49'42 5°03'59	retrograde	5675 Jan 07 16:48 5675 Mar 27 16:33	9° <b>£</b> 03'35 7° <b>£</b> 51'47 8°10'11
conjunction minimum elong	5668 Sep 16 09:43	27° m 49'41 5°03'59	opposition min. Earth dist.	5675 Mar 27 16:33 5675 Mar 30 05:39	7° <b>£</b> 51'47 8°10'11 7° <b>£</b> 48'08 35.57343 AU
morning rise	5668 Oct 01 14:39	28° m 15'41	direct	5675 Jun 16 06:58	6° <b>£</b> 38′28
retrograde	5668 Dec 28 12:26	29° m/43'56	evening set	5675 Sep 14 15:17	8° <b>≏</b> 15'11
opposition	5669 Mar 18 02:09	28° m/34'29 5°33'08	max. Earth dist.	5675 Sep 25 11:29	8° <b>≏</b> 34'52 37.42615 AU
min. Earth dist.	5669 Mar 20 13:12	28° mp 31'06 37.12981 A		r	
direct	5669 Jun 06 21:10	27° m 23'51	conjunction	5675 Sep 28 09:45	8° <b>≏</b> 40'13 7°56'38
evening set	5669 Sep 03 03:04	28° m 52'39	minimum elong	5675 Sep 28 09:30	8° <b>≏</b> 40'12 7°56'38
max. Earth dist.	5669 Sep 15 10:55	29° m 13'50 38.99240 A	AU morning rise	5675 Oct 12 02:57	9° <b>ഫ</b> 05'12
			retrograde	5676 Jan 09 16:49	10° <b>≙</b> 41'55
conjunction	5669 Sep 18 04:56	29° m 18'37 5°28'25	opposition	5676 Mar 28 13:08	9° <b>£</b> 29'43 8°36'30
minimum elong	5669 Sep 18 04:46	29° To 18'36 5°28'24	min. Earth dist.	5676 Mar 31 03:25	9° <b>£</b> 25'59 35.31750 AU
morning rise	5669 Oct 03 05:44	29° m/44'33	direct	5676 Jun 17 02:48	8° <b>≏</b> 15'58
ratra ara da	5669 Oct 12 12:20	0° <b>∿</b>	evening set max. Earth dist.	5676 Sep 15 21:04	9° <b>£</b> 54'16
retrograde opposition	5669 Dec 30 06:23 5670 Mar 19 19:12	1° <b>♀</b> 13'50 0° <b>♀</b> 04'02 5°59'04	max. Earm dist.	5676 Sep 26 11:22	10° <b>£</b> 13'40 37.16892 AU
min. Earth dist.	5670 Mar 22 06:06	0° <b>2</b> 00'38 36.87095 A	AU conjunction	5676 Sep 29 08:51	10° <b>≙</b> 19'02 8°21'20
mm. Lattii dist.	5670 Mar 22 17:02	30°RM)	minimum elong	5676 Sep 29 08:35	10° <b>⊆</b> 19'00 8°21'21
direct	5670 Jun 08 15:18	28° m/52'58	morning rise	5676 Oct 12 19:06	10° <b>≙</b> 43'43
	5670 Aug 22 06:03	0∘ <b>ʊ</b>	retrograde	5677 Jan 10 14:31	12° <b>£</b> 21'54
evening set	5670 Sep 05 02:41	0° <b>£</b> 22'56	opposition	5677 Mar 30 10:09	11° <b>≏</b> 09'21 9°02'45
max. Earth dist.	5670 Sep 17 04:16	0° <b>≙</b> 43'51 38.73141 A	**	5677 Apr 01 23:54	11° <b>≙</b> 05'37 35.06324 AU
	-		direct	5677 Jun 19 00:08	9° <b>≏</b> 55'10
conjunction	5670 Sep 20 00:13	0° <b>º</b> 48'49 5°52'58	evening set	5677 Sep 18 04:10	11° <b>≏</b> 35′06
minimum elong	5670 Sep 20 00:02	0° <b>º</b> 48'49 5°52'59	max. Earth dist.	5677 Sep 28 09:41	11° <b>≙</b> 54'02 36.91315 AU
morning rise	5670 Oct 04 20:54	1° <b>£</b> 14'41			
retrograde	5671 Jan 01 01:16	2° <b>Ω</b> 45'04	conjunction	5677 Oct 01 08:31	11° <b>£</b> 59'33 8°45'58
opposition	5671 Mar 21 12:49	1° <b>2</b> 34'52 6°25'08	minimum elong	5677 Oct 01 08:15	11° <b>⊆</b> 59'32 8°45'59
min. Earth dist.	5671 Mar 24 01:08	1° <b>2</b> 31'22 36.61103 A	Ü	5677 Oct 14 11:35	12° <b>£</b> 23'55
direct	5671 Jun 10 06:49	0° <b>£</b> 23′22	retrograde	5678 Jan 12 14:40	14° <b>£</b> 03'39

opposition	5678 Apr 01 08:01	12° <b>♀</b> 50'44 9°28'57	minimum elong	5684 Oct 14 02:44	24° <b>♀</b> 33'35 11°33'41
min. Earth dist.	5678 Apr 03 22:37	12° <b>2</b> 46'55 34.81041 AU	ě	5684 Oct 24 10:43	24° <b>⊆</b> 54'09
direct	5678 Jun 20 19:13	11° <b>2</b> 36'07	retrograde	5685 Jan 25 15:33	26° <b>£</b> 46'45
evening set	5678 Sep 20 12:14	13° <b>⊆</b> 17'47	opposition	5685 Apr 13 13:28	25° <b>≙</b> 30'53 12°27'18
max. Earth dist.	5678 Sep 30 10:31	13° <b>≙</b> 36′20 36.65829 AU		5685 Apr 16 06:19	25° <b>2</b> 26'45 33.06671 AU
max. Earth dist.	3070 Бер 30 10.31	15 = 50 20 50.05027 110	direct	5685 Jul 02 17:37	24° <b>£</b> 12'55
conjunction	5678 Oct 03 08:55	13° <b>≙</b> 41'51 9°10'30	evening set	5685 Oct 06 12:08	26° <b>≙</b> 08'50
minimum elong	5678 Oct 03 08:37	13° <b>2</b> 41′50 9°10′31	max. Earth dist.	5685 Oct 13 08:30	26° <b>≙</b> 22'34 34.90086 AU
morning rise	5678 Oct 16 03:57	14° <b>♀</b> 05'51	max. Dartii dist.	3003 001 13 00.30	20 =2231 31.90000110
retrograde	5679 Jan 14 14:30	15° <b>≙</b> 47'13	conjunction	5685 Oct 16 08:49	26° <b>≙</b> 28'38 11°56'25
opposition	5679 Apr 03 06:41	14° <b>♀</b> 33'55 9°55'02	minimum elong	5685 Oct 16 08:28	26° <b>£</b> 28'37 11°56'26
min. Earth dist.	5679 Apr 05 21:45	14° <b>♀</b> 30'03 34.55833 AU	· ·	5685 Oct 26 03:55	26° <b>≙</b> 48'21
direct	5679 Jun 22 15:34	13° <b>≙</b> 18'52	retrograde	5686 Jan 27 20:03	28° <b>≙</b> 43'08
evening set	5679 Sep 22 21:53	15° <b>2</b> 02'19	opposition	5686 Apr 15 17:24	27° <b>£</b> 26′50 12°51′28
max. Earth dist.	5679 Oct 02 10:40	15° <b>⊆</b> 20'18 36.40410 AU	**	5686 Apr 18 09:53	27° <b>£</b> 22'42 32.82638 AU
max. Earth dist.	3077 300 02 10:10	13 -2010 30.10110110	direct	5686 Jul 04 19:59	26° <b>£</b> 08'23
conjunction	5679 Oct 05 10:03	15° <b>≙</b> 25'58 9°34'55	evening set	5686 Oct 09 07:38	28° <b>≙</b> 06'42
minimum elong	5679 Oct 05 10:05	15° <b>2</b> 25'57 9°34'55	max. Earth dist.	5686 Oct 15 14:32	28° <b>≙</b> 19'27 34.65973 AU
morning rise	5679 Oct 17 20:49	15° <b>-</b> 25'37	max. Lattii dist.	3000 Oct 13 14.32	20 <b>—</b> 1727 34.03773 AO
retrograde	5680 Jan 16 17:38	17° <b>£</b> 32'36	conjunction	5686 Oct 18 14:56	28° <b>≙</b> 25'36 12°18'41
opposition	5680 Apr 04 05:50	16° <b>≙</b> 18'54 10°21'00	minimum elong	5686 Oct 18 14:34	28° <b>2</b> 25'34 12°18'41
min. Earth dist.	5680 Apr 06 21:00	16° <b>⊆</b> 15'00 34.30692 AU		5686 Oct 27 20:55	28° <u>•</u> 44'24
direct	5680 Jun 23 12:40	15° <b>£</b> 03'23	morning risc	5686 Dec 08 13:25	0°M
evening set	5680 Sep 24 08:45	16° <b>£</b> 48'42	retrograde	5687 Jan 30 03:24	0°M41'28
max. Earth dist.	5680 Oct 03 11:57	10 = 48 42 17°	•	5687 Mar 25 06:56	0 11C41 28 30°R <b>≏</b>
max. Earm dist.	3080 Oct 03 11.37	17 = 00 07 30.13023 AU	opposition		29° <b>♀</b> 24'45 13°15'06
agniumation	5680 Oct 06 12:07	17° <b>≙</b> 11'53 9°59'10	min. Earth dist.	5687 Apr 17 22:01	29° <b>2</b> 2443 13 13 06 29° <b>2</b> 20'38 32.59050 AU
conjunction minimum elong	5680 Oct 06 12:07	17° <b>⊆</b> 11'53 9'59'10 17° <b>⊆</b> 11'52 9°59'10	direct	5687 Apr 20 13:44 5687 Jul 06 22:58	28° <b>£</b> 05'49
morning rise	5680 Oct 18 13:52	17 <b>⊆</b> 11 32 9 39 10 17° <b>⊆</b> 34'59	direct	5687 Oct 08 22:03	0°M
•	5681 Jan 17 20:37	17 <b>=</b> 34 39 19° <b>£</b> 19'48	ovenina set	5687 Oct 12 04:54	0°ML06'41
retrograde opposition	5681 Apr 06 06:01	19 <b>≗</b> 1948 18° <b>≗</b> 05'40 10°46'47	evening set max. Earth dist.	5687 Oct 17 22:29	0°ML18'25 34.42314 AU
min. Earth dist.	5681 Apr 08 22:25	18° <b>2</b> 01'41 34.05594 AU		3087 Oct 17 22.29	0 IIG1023 34.42314 AU
direct	5681 Jun 25 12:16	18 <b>2</b> 0141 34.03394 AU 16° <b>2</b> 49'41	conjunction	5687 Oct 20 22:10	0°ML24'34 12°40'24
	5681 Sep 26 21:04	18° <b>£</b> 36'57	minimum elong	5687 Oct 20 22:10 5687 Oct 20 21:49	0°ML24'32 12°40'24
evening set			_		0°ML42'21
max. Earth dist.	5681 Oct 05 14:45	18° <b>≙</b> 53'47 35.89702 AU	Č	5687 Oct 29 14:01	
	5(01 0-4 00 14.46	100 0 5012 ( 10022112	retrograde	5688 Feb 01 10:32	2°M41'50 1°M24'43 13°38'08
conjunction minimum elong	5681 Oct 08 14:46 5681 Oct 08 14:27	18° <b>£</b> 59'36 10°23'12 18° <b>£</b> 59'35 10°23'13	opposition min. Earth dist.	5688 Apr 19 03:29	1°ML20'33 32.35942 AU
· ·	5681 Oct 08 14.27 5681 Oct 20 06:55	18 <b>≗</b> 3933 10 2313	direct	5688 Apr 21 19:28 5688 Jul 08 02:26	0°ML05'19
morning rise retrograde	5682 Jan 20 01:34	21° <b>£</b> 08'48	evening set	5688 Oct 14 04:13	2°ML08'53
opposition	5682 Apr 08 06:43	19° <b>£</b> 54'15 11°12'22	max. Earth dist.	5688 Oct 19 07:16	2°ML19'29 34.19172 AU
min. Earth dist.	5682 Apr 10 22:30	19° <b>2</b> 50'16 33.80585 AU		3000 OCt 19 07.10	2 IIG1929 34.191/2 AU
direct	5682 Jun 27 13:57	19 <b>⊆</b> 30 10 33.80383 AO 18° <b>⊆</b> 37'46	conjunction	5688 Oct 22 06:10	2°ML25'37 13°01'30
evening set	5682 Sep 29 10:37	18 <b>=</b> 3740 20° <b>£</b> 27'04	minimum elong	5688 Oct 22 05:47	2°ML25'35 13°01'31
max. Earth dist.	5682 Oct 07 16:52	20° <b>£</b> 43'09 35.64478 AU	ě	5688 Oct 30 06:50	2°ML42'17
max. Lattii dist.	3002 001 07 10.32	20 <b>—</b> 43 07 33.04476 AO	retrograde	5689 Feb 02 20:41	4°M44'19
conjunction	5682 Oct 10 18:09	20° <b>£</b> 49'07 10°47'01	opposition	5689 Apr 21 09:46	3°M26'49 14°00'29
minimum elong	5682 Oct 10 17:48	20° <b>£</b> 49'06 10°47'01	min. Earth dist.	5689 Apr 24 00:17	3°ML22'44 32.13346 AU
morning rise	5682 Oct 22 00:11	20 <b>⊆</b> 4900 10 4701 21° <b>⊆</b> 11'05	direct	5689 Jul 10 08:10	2°M06'59
•	5683 Jan 22 05:36	21° <b>⊆</b> 11'03 22° <b>⊆</b> 59'37			4°M13'23
retrograde opposition	5683 Jan 22 05:36 5683 Apr 10 08:17	21° <b>2</b> 44'38 11°37'41	evening set max. Earth dist.	5689 Oct 17 05:22 5689 Oct 21 16:04	4°ML22'41 33.96521 AU
min. Earth dist.	5683 Apr 13 01:21	21° <b>2</b> 44'38 11 3741 21° <b>2</b> 40'33 33.55720 AU		2007 Oct 21 10.04	T 110/22 T1 33.703/21 AU
direct	5683 Jun 29 14:02	20° <b>£</b> 27'40	conjunction	5689 Oct 24 14:57	4°ML28'52 13°21'55
evening set	5683 Oct 02 01:34	20° <b>⊆</b> 27'40 22° <b>⊆</b> 19'03	minimum elong	5689 Oct 24 14:36	4°ML28'50 13°21'57
max. Earth dist.	5683 Oct 02 01:54	22° <b>£</b> 34'29 35.39426 AU	•	5689 Oct 31 23:21	4°M44'17
max. Earth dist.	3083 Oct 09 21.30	22 = 34 29 33.39420 AO	retrograde	5690 Feb 05 07:17	6°M48'59
conjunction	5683 Oct 12 22:16	22° <b>≙</b> 40'27 11°10'31	opposition	5690 Apr 23 17:03	5°ML31'07 14°22'07
minimum elong	5683 Oct 12 22:16 5683 Oct 12 21:56	22° <b>2</b> 40'27 11 10'31 22° <b>2</b> 40'25 11°10'32	min. Earth dist.	•	5°M26'59 31.91238 AU
	5683 Oct 12 21:36 5683 Oct 23 17:19	23° <b>2</b> •01'44	direct	5690 Apr 26 08:07 5690 Jul 12 14:09	4°M10'53
morning rise	5684 Jan 24 09:38				4°111.10'53 6°111.20'16
retrograde		24° <b>£</b> 52'15 23° <b>£</b> 36'50 12°02'42	evening set max. Earth dist.	5690 Oct 20 09:02	
opposition min. Earth dist.	5684 Apr 11 10:32			5690 Oct 24 03:19	6°M28'13 33.74358 AU
	5684 Apr 14 02:57 5684 Jun 30 17:03	23° <b>♀</b> 32'45 33.31053 AU 22° <b>♀</b> 19'22		5600 Oct 27 00:40	6°M34'20 13°41'37
direct		22° <b>2</b> ≥19'22 24° <b>2</b> ≥12'58	conjunction	5690 Oct 27 00:40	
evening set max. Earth dist.	5684 Oct 03 18:07 5684 Oct 11 01:35	24° <b>2</b> 27′29 35.14602 AU	minimum elong morning rise	5690 Oct 27 00:17 5690 Nov 02 15:08	6°M34'18 13°41'38 6°M48'20
max. Earm dist.	500 <del>4</del> OCt 11 01.55	∠+ ==∠1∠9 33.1400∠ AU	=	5691 Feb 07 19:32	
conjunction	5684 Oct 14 03:06	24° <b>≙</b> 33'37 11°33'41	retrograde opposition	5691 Apr 26 01:05	8°M55'52 7°M37'39 14°42'57
Conjunction	JUUT OCI 14 UJ.U0	27 <b>—</b> 3331 11 3341	оррозния	5071 Apr 20 01.03	/ HUJ/J7 14 423/

min. Earth dist.	5691 Apr 28 14:52	7° <b>M</b> 33'34	31.69591 AU	min. Earth dist.	5698 May 13 18:44	23°M16'38	30.31685 AU
direct	5691 Jul 14 23:22	6° <b>M</b> ₊17'00		direct	5698 Jul 30 00:41	21°M56'54	
evening set	5691 Oct 23 15:18	8°M29'34		max. Earth dist.	5698 Nov 11 20:17	24°M25'55	32.15028 AU
max. Earth dist.	5691 Oct 26 13:14	8°M35'47	33.52641 AU				
				conjunction	5698 Nov 14 10:52	24°MJ31'51	15°44'58
conjunction	5691 Oct 29 11:09	8°M42'01	14°00'31	minimum elong	5698 Nov 14 10:36	24°M31'49	15°45'00
minimum elong	5691 Oct 29 10:48	8°M41'59	14°00'32	retrograde	5699 Feb 26 07:17	27°M03'43	1.605211.6
morning rise	5691 Nov 04 06:01 5692 Feb 10 07:00	8°ጤ54'23 11°ጤ04'58		opposition min. Earth dist.	5699 May 14 00:55 5699 May 16 09:01	25°M42'30 25°M38'37	
retrograde opposition	5692 Apr 27 10:08	9°ML46'23	15°02'56	direct	5699 Aug 01 14:35	24°ML18'29	30.14018 AU
min. Earth dist.	5692 Apr 30 00:21		31.48381 AU	max. Earth dist.	5699 Nov 14 15:25		31.98224 AU
direct	5692 Jul 16 06:30	8°ML25'19	31.10301110	man. Bartin digt.	20,51,0,11,10,20	20 110 1000	31.90221110
evening set	5692 Oct 26 01:21	10°ML41'18		conjunction	5699 Nov 17 03:17	26°M54'42	15°54'55
max. Earth dist.	5692 Oct 28 02:19	10°M45'42	33.31356 AU	minimum elong	5699 Nov 17 03:04	26°M54'40	15°54'56
				retrograde	5700 Mar 01 00:39	29°M27'40	
conjunction	5692 Oct 30 22:41	10°M51'52	14°18'35	opposition	5700 May 16 16:29	28°MJ06'09	17°02'25
minimum elong	5692 Oct 30 22:20	10°ML51'50	14°18'35	min. Earth dist.	5700 May 18 21:58	28°M02'26	29.98435 AU
morning rise	5692 Nov 04 19:02	11°ML02'20		direct	5700 Aug 04 07:36	26°M41'48	
retrograde	5693 Feb 11 18:28	13°ML16'11		max. Earth dist.	5700 Nov 17 09:33	29°M13'34	31.82353 AU
opposition	5693 Apr 29 20:02	11°M.57'14					
min. Earth dist.	5693 May 02 09:24		31.27591 AU	conjunction	5700 Nov 19 20:21	29°M19'13	16°03'22
direct	5693 Jul 18 16:24	10°M35'44		minimum elong	5700 Nov 19 20:08	29°M19'12	16°03'24
evening set max. Earth dist.	5693 Oct 29 16:39 5693 Oct 30 14:05	12°M55'35	33.10525 AU	retrograde	5700 Dec 07 16:57 5701 Mar 03 18:30	0° <b>∡¹</b> 1° <b>∡¹</b> 53'17	
max. Earth dist.	3093 Oct 30 14.03	12 1163/32	33.10323 AO	opposition	5701 May 19 08:48	0° <b>∡</b> 731′29	17°10'55
conjunction	5693 Nov 02 10:53	13° <b>M</b> L03'47	14°35'43	min. Earth dist.	5701 May 21 13:16		29.83195 AU
minimum elong	5693 Nov 02 10:33	13°ML03'46	14°35'44	mm. Darm dist.	5701 Jun 07 15:49	30°RM	27.03173110
morning rise	5693 Nov 06 04:21	13°M11'55		direct	5701 Aug 06 22:17	29°ML06'52	
C	5694 Jan 02 17:38	15°M₀			5701 Oct 03 20:05	0° <b>∡</b> ¹	
retrograde	5694 Feb 14 08:30	15°M29'27		max. Earth dist.	5701 Nov 20 06:34	1° <b>∡</b> 140′04	31.67463 AU
	5694 Mar 29 21:37	15°RM					
opposition	5694 May 02 06:50	14°ML10'08	15°40'03	conjunction	5701 Nov 22 14:06	1° <b>∡</b> ¹45'27	16°10'15
min. Earth dist.	5694 May 04 19:39	14°M06'02	31.07271 AU	minimum elong	5701 Nov 22 13:57	1° <b>х</b> 45′26	16°10'16
direct	5694 Jul 21 01:02	12°M48'12		retrograde	5702 Mar 06 13:10	4° <b>∡</b> ¹20'32	
_	5694 Oct 27 22:06	15° <b>M</b> ₊		opposition	5702 May 22 01:53	2° <b>∡</b> ′58′31	17°17'42
evening set	5694 Nov 02 19:19	15°M12'54	22 00170 411	min. Earth dist.	5702 May 24 04:02		29.68895 AU
max. Earth dist.	5694 Nov 02 04:40	15°IIL11'33	32.90179 AU	direct	5702 Aug 09 16:01	1° 🗷 33'40	21 52520 ATT
agniumation	5694 Nov 04 23:50	15° <b>M</b> .17'43	14051152	max. Earth dist.	5702 Nov 23 01:39	4°×'08'02	31.53538 AU
conjunction minimum elong	5694 Nov 04 23:30	15°ML17'43	14°51'53 14°51'54	conjunction	5702 Nov 25 08:11	4° <b>∡</b> 13'20	16°15'30
morning rise	5694 Nov 07 03:39	15°M22'28	14 31 34	minimum elong	5702 Nov 25 08:11 5702 Nov 25 08:02	4° 🖈 13'20 4° 🖈 13'19	16°15'32
retrograde	5695 Feb 16 20:07	17°M44'42		retrograde	5703 Mar 09 09:18	6° <b>₹</b> 19124	10 13 32
opposition	5695 May 04 18:32	16°M24'59	15°57'02	opposition	5703 May 24 19:36	5° <b>∡</b> 127'12	17°22'44
min. Earth dist.	5695 May 07 07:01		30.87444 AU	min. Earth dist.	5703 May 26 20:07		29.55528 AU
direct	5695 Jul 23 11:02	15°ML02'38		direct	5703 Aug 12 08:35	4° <b>∡</b> °02'07	
max. Earth dist.	5695 Nov 04 18:50	17°ML27'23	32.70388 AU	max. Earth dist.	5703 Nov 25 23:47	6° <b>∡</b> ³37'48	31.40545 AU
conjunction	5695 Nov 07 13:33	17°M33'34	15°06'58	conjunction	5703 Nov 28 03:09	6° <b>∡</b> ¹42'50	16°19'06
minimum elong	5695 Nov 07 13:15	17°M33'32	15°06'59	minimum elong	5703 Nov 28 03:04	6° <b>∡</b> ¹42'49	16°19'07
retrograde	5696 Feb 19 10:01	20°ML01'49		retrograde	5704 Mar 11 03:18	9° <b>√</b> 19'47	
opposition	5696 May 06 06:46	18°M41'43	16°12'50	opposition	5704 May 26 13:58	7° ₹ 57'25	17°25'57
min. Earth dist. direct	5696 May 08 17:53 5696 Jul 24 23:02	18°11L37'42 17°11L18'55	30.68193 AU	min. Earth dist. direct	5704 May 28 12:57 5704 Aug 14 02:47	6° <b>∡</b> 732′10	29.43043 AU
max. Earth dist.	5696 Nov 06 10:42		32.51202 AU	max. Earth dist.	5704 Aug 14 02.47 5704 Nov 27 20:14		31.28471 AU
max. Earth dist.	3090 NOV 00 10.42	19 11643 09	32.31202 AO	max. Earm dist.	3704 NOV 27 20.14	9 X 00 30	31.264/1 AU
conjunction	5696 Nov 09 04:07	19° <b>M</b> 51'15	15°20'54	conjunction	5704 Nov 29 22:30	9° <b>∡</b> 13'47	16°20'59
minimum elong	5696 Nov 09 03:49	19°ML51'13	15°20'56	minimum elong	5704 Nov 29 22:25	9° <b>∡</b> 13'47	16°21'01
retrograde	5697 Feb 20 23:35	22°M20'45		retrograde	5705 Mar 14 00:03	11° <b>∡</b> 751'34	
opposition	5697 May 08 20:07	21°ML00'16	16°27'23	opposition	5705 May 29 09:01	10° <b>∡</b> ¹29'02	17°27'19
min. Earth dist.	5697 May 11 07:05	20°M56'13	30.49574 AU	min. Earth dist.	5705 May 31 05:45	10° <b>∡</b> ¹25'53	29.31449 AU
direct	5697 Jul 27 10:31	19°M37'02		direct	5705 Aug 16 21:03	9° <b>∡</b> ¹03'36	
max. Earth dist.	5697 Nov 09 03:20	22° <b>M</b> 04'42	32.32724 AU	max. Earth dist.	5705 Nov 30 19:05	11° <b>∡</b> 741′23	31.17298 AU
	5007 N 11 10 00	220M 10142	1.502.212.6		5705 D 02 10 10	110 74400	1.001100
conjunction	5697 Nov 11 19:06	22°M 10'42	15°33'36	conjunction	5705 Dec 02 18:18	11° <b>x</b> <sup>7</sup> 46'03	16°21'09
minimum elong	5697 Nov 11 18:50	22°M,10'40	15°33'38	minimum elong	5705 Dec 02 18:16	11° <b>х</b> 46'03 14° <b>х</b> 24'33	16°21'10
retrograde opposition	5698 Feb 23 15:31 5698 May 11 10:06	24°M41'23 23°M20'32	16°40'33	retrograde opposition	5706 Mar 16 19:13 5706 Jun 01 04:46	14° <b>×</b> '24'33 13° <b>×</b> '01'52	17°26'48
оррознион	3070 May 11 10.00	23 IIG2U 32	10 70 33	оррознин	5700 Jun 01 04.40	13 🗡 0132	1/ 4040

min. Earth dist.	5706 Jun 03 00:21	12° <b>∡</b> 58'47 29.20	0726 AU r	nin. Earth dist.	5714 Jun 2	23 03:34	3°₹43'46	28.71483 AU
direct	5706 Aug 19 15:08	11° <b>₰</b> ³36′17		lirect	5714 Sep 0	9 19:01	2° <b>る</b> 19'21	
max. Earth dist.	5706 Dec 03 16:50	14° <b>≯</b> 14'54 31.0°						
	550670 05 14.05	140 71000 1601		conjunction	5714 Dec 2		5°る03'59	15°00'07
conjunction	5706 Dec 05 14:25			minimum elong	5714 Dec 2		5° <b>る</b> 04'01	15°00'09
minimum elong	5706 Dec 05 14:24 5707 Mar 19 15:27	14° <b>х</b> 19′26 16°1 16° <b>х</b> 58′33		nax. Earth dist.	5714 Dec 2		3°801'30 7° <b>8</b> 44'20	30.63580 AU
retrograde opposition	5707 Jun 04 00:41			etrograde opposition	5715 Apr ( 5715 Jun 2		6°る21'07	15052148
min. Earth dist.	5707 Jun 04 00:41			nin. Earth dist.	5715 Jun 2			28.70588 AU
direct	5707 Aug 22 11:21	14° <b>₹</b> 09'59		lirect	5715 Sep 1		4°る55'14	20.70300 AC
max. Earth dist.	5707 Dec 06 15:59	16° <b>₹</b> 49'27 30.9'		evening set	5715 Dec 2		7° <b>る</b> 31'59	
max. Dartii dist.	3707 BCC 00 13.37	10 % 19 27 30.9	7733710	vening sec	3713 Dec 2	.0 01.21	, 0515)	
conjunction	5707 Dec 08 10:59	16° <b>₹</b> 753'45 16°1	16'06 c	conjunction	5715 Dec 2	9 07:54	7° <b>る</b> 39'35	14°41'56
minimum elong	5707 Dec 08 11:02	16° <b>∡</b> 753'45 16°1	16'07	minimum elong	5715 Dec 2	9 08:12	7° <b>る</b> 39'36	14°41'57
retrograde	5708 Mar 21 10:09	19° <b>∡</b> ³33′22		nax. Earth dist.	5715 Dec 2	28 12:30	7° <b>る</b> 37'38	30.63572 AU
opposition	5708 Jun 05 21:16	18° <b>∡</b> 10′24 17°1	19'58 r	norning rise	5716 Jan 0	11:57	7° <b>る</b> 47'14	
min. Earth dist.	5708 Jun 07 12:52	18° <b>∡</b> '07'36 29.02	2023 AU r	etrograde	5716 Apr 1	1 05:16	10° <b>る</b> 19'40	
direct	5708 Aug 24 07:20	16° <b>∡</b> ¹44'32		pposition	5716 Jun 2	26 23:57	8° <b>る</b> 56'33	15°32'29
max. Earth dist.	5708 Dec 08 15:01	19° <b>∡</b> ′24'42 30.89	9441 AU r	nin. Earth dist.	5716 Jun 2	27 16:35	8° <b>る</b> 55'23	28.70860 AU
				lirect	5716 Sep 1		7° <b>る</b> 30'49	
conjunction	5708 Dec 10 07:36			evening set	5716 Dec 2	26 15:10	10° <b>る</b> 03'51	
minimum elong	5708 Dec 10 07:40		10'53		##1 C D #			1.4000100
retrograde	5709 Mar 24 07:11	22° <b>₹</b> 08'47		conjunction	5716 Dec 3		10°る14'47	14°22'03
opposition	5709 Jun 08 18:01			minimum elong	5716 Dec 3		10°る14'49	14°22'05
min. Earth dist.	5709 Jun 10 06:19	20° 🗷 43'08 28.94		max. Earth dist.	5716 Dec 3			30.64711 AU
direct	5709 Aug 27 04:38	19° <b>∡</b> 19'43		morning rise	5717 Jan (		10°る25'45 12°る54'30	
max. Earth dist.	5709 Dec 11 14:18	22° <b>₹</b> 00′28 30.82		etrograde opposition	5717 Apr 1 5717 Jun 2		12° <b>る</b> 3430	15°10'23
conjunction	5709 Dec 13 04:23	22° <b>₹</b> 04'18 16°0		nin. Earth dist.	5717 Jun 2			28.72231 AU
minimum elong	5709 Dec 13 04:23			lirect	5717 Sep 1		11 03030 10°る05'59	26.72231 AU
retrograde	5710 Mar 27 02:15	24° 🖈 44'37		evening set	5717 Dec 2		10 <b>さ</b> 05 59	
opposition	5710 Jun 11 15:11	23° <b>₹</b> 21'25 17°0		veiling set	3/1/ Dec 2	.0 00.54	12 033 32	
min. Earth dist.	5710 Jun 13 01:58	23° 🖈 18'57 28.8'		conjunction	5718 Jan (	2. 23:46	12° <b>る</b> 49'25	14°00'34
direct	5710 Aug 30 01:00	21° <b>×</b> 755'20		minimum elong	5718 Jan (		12° <b>る</b> 49'27	14°00'35
max. Earth dist.	5710 Dec 14 14:29	24° <b>⋠</b> 36'39 30.76		nax. Earth dist.	5718 Jan (			30.66961 AU
				norning rise	5718 Jan (	08 15:21	13° <b>る</b> 02'59	
conjunction	5710 Dec 16 01:04	24° <b>∡</b> ¹40'08 15°5	54'46 r	etrograde	5718 Apr 1	6 20:29	15° <b>る</b> 28'42	
minimum elong	5710 Dec 16 01:13	24° <b>∡</b> ¹40'09 15°5		pposition	5718 Jul 0	2 18:38	14° <b>る</b> 05'51	14°46'34
retrograde	5711 Mar 29 22:27	27° <b>∡</b> ¹20'38	r	nin. Earth dist.	5718 Jul 0	3 05:30	14° <b>る</b> 05'05	28.74677 AU
opposition	5711 Jun 14 12:25	25° <b>х</b> 57′21 16°5	54'45	lirect	5718 Sep 2	20 12:36	12° <b>る</b> 40'30	
min. Earth dist.	5711 Jun 15 19:46	25° <b>₹</b> 55′08 28.83	1488 AU 6	evening set	5718 Dec 3	05:09	15° <b>る</b> 07'32	
direct	5711 Sep 02 00:40	24° <b>₹</b> 31'13						
				conjunction	5719 Jan (		15° <b>る</b> 23'20	13°37'32
conjunction	5711 Dec 18 21:49			minimum elong	5719 Jan 0		15° <b>る</b> 23'22	13°37'34
minimum elong	5711 Dec 18 22:00			nax. Earth dist.	5719 Jan (			30.70266 AU
max. Earth dist.	5711 Dec 17 13:37	27° <b>₹</b> 12'53 30.7		norning rise	5719 Jan 1		15° <b>る</b> 39'08	
retrograde	5712 Mar 31 18:45	29° <b>₹</b> 56'44		etrograde	5719 Apr 1		18° <b>る</b> 02'04	1.402.110.0
opposition min. Earth dist.	5712 Jun 16 09:47	28° 🗷 33'24 16° 4 28° 🗷 31'20 28.70		opposition nin. Earth dist.	5719 Jul (		16° <b>る</b> 39'22	14°21'08 28.78148 AU
direct	5712 Jun 17 14:49 5712 Sep 03 21:34	28 <b>x</b> · 31 20 28.76 27° <b>x</b> 07'14		lirect	5719 Sep 2		16 03844 15° <b>る</b> 14'14	26.76146 AU
direct	3/12 Sep 03 21.34	2/ <b>X</b> *0/14		evening set	5719 Sep 2		13 81414 17° <b>る</b> 38'35	
conjunction	5712 Dec 20 18:37	29° <b>₹</b> 52'10 15°3	31'09	veiling set	3720 Jan (	71 05.54	17 03033	
minimum elong	5712 Dec 20 18:51			conjunction	5720 Jan (	08 14·17	17° <b>ට</b> 56'21	13°13'03
max. Earth dist.	5712 Dec 19 14:33	29° <b>×</b> <sup>7</sup> 49'20 30.6'		minimum elong	5720 Jan (		17° <b>る</b> 56'23	13°13'04
	5712 Dec 24 00:21	0°⋜		nax. Earth dist.	5720 Jan (			30.74606 AU
retrograde	5713 Apr 03 14:58	2° <b>る</b> 32'46		norning rise	5720 Jan 1		18° <b>ප</b> 14'06	
opposition	5713 Jun 19 07:25	1°る09'26 16°2		etrograde	5720 Apr 2		20° <b>ප</b> 34'27	
min. Earth dist.	5713 Jun 20 09:04	1°る07'37 28.73		ppposition	5720 Jul 0		19° <b>ප</b> 11'55	13°54'11
	5713 Aug 05 20:54	30°R <b>✓</b>		nin. Earth dist.	5720 Jul 0	7 17:46	19° <b>る</b> 11'32	28.82622 AU
direct	5713 Sep 06 20:37	29° <b>х</b> 43′19	Ċ	lirect	5720 Sep 2	25 07:49	17° <b>る</b> 46'59	
	5713 Oct 08 05:14	0°ප	$\epsilon$	evening set	5721 Jan 0	02 03:53	20° <b>る</b> 08'47	
		_					_	
conjunction	5713 Dec 23 15:03			conjunction	5721 Jan 1		20° <b>පි</b> 28'18	12°47'13
minimum elong	5713 Dec 23 15:18			minimum elong	5721 Jan 1		20°る28'20	12°47'14
max. Earth dist.	5713 Dec 22 13:16	2° <b>3</b> 25'33 30.64		nax. Earth dist.	5721 Jan 1			30.79947 AU
retrograde	5714 Apr 06 12:41	5° <b>る</b> 08'40		morning rise	5721 Jan 1		20°る47'49	
opposition	5714 Jun 22 04:59	3° <b>ප්</b> 45'22 16°1	1113 ľ	etrograde	5721 Apr 2	4 UI:I/	23° <b>る</b> 05'41	

opposition	5721 Jul 10 08:37	21° <b>る</b> 43'19	13°25'48	conjunction	5728 Jan 28 01:03	7° <b>≈</b> 32'37	9°15'05
min. Earth dist.	5721 Jul 10 12:23	21° <b>පි</b> 43'04 2	28.88103 AU	minimum elong	5728 Jan 28 01:24	7° <b>≈</b> 32'39	9°15'05
direct	5721 Sep 28 03:40	20°る18'37		max. Earth dist.	5728 Jan 28 18:20	7° <b>≈</b> 34'16	31.46997 AU
evening set	5722 Jan 04 04:45	22° <b>る</b> 37'55		morning rise	5728 Feb 09 05:53	8° <b>≈</b> 00'30	
				retrograde	5728 May 10 11:14	10° <b>≈</b> 03'30	
conjunction	5722 Jan 13 02:49	22° <b>る</b> 59'01	12°20'05	opposition	5728 Jul 27 15:13	8° <b>≈</b> 42'47	9°34'49
minimum elong	5722 Jan 13 03:12	22° <b>る</b> 59'04	12°20'06	min. Earth dist.	5728 Jul 26 22:20	8° <b>≈</b> 43'55	29.56307 AU
max. Earth dist.	5722 Jan 13 01:28	22° <b>る</b> 58'53	30.86312 AU	direct	5728 Oct 15 19:50	7° <b>≈</b> 20'17	
morning rise	5722 Jan 22 00:48	23° <b>ප්</b> 20'08		evening set	5729 Jan 16 23:00	9° <b>≈</b> 24'12	
retrograde	5722 Apr 26 17:33	25° <b>る</b> 35'38		Z .			
opposition	5722 Jul 13 04:21		12°56'05	conjunction	5729 Jan 29 14:20	9° <b>≈</b> 52'53	8°41'26
min. Earth dist.	5722 Jul 13 04:33	24° <b>る</b> 13'25		minimum elong	5729 Jan 29 14:41	9°≈52'55	8°41'27
direct	5722 Oct 01 02:01	22°る48'58	20.9 1390 110	max. Earth dist.	5729 Jan 30 09:22		31.60785 AU
evening set	5723 Jan 06 06:16	25° <b>ろ</b> 05'50		morning rise	5729 Feb 11 05:11	10°≈21'31	31.00763 AC
evening set	3/23 Jan 00 00.10	25 005 50		retrograde	5729 May 13 01:46	10 ≈21 31 12°≈22'42	
agniumation	5722 Ion 15 20:12	25° <b>♂</b> 28'23	11°51'45	min. Earth dist.	,		29.70219 AU
conjunction	5723 Jan 15 20:12				5729 Jul 29 10:18		
minimum elong	5723 Jan 15 20:36		11°51'46	opposition	5729 Jul 30 06:53	11°≈02'18	8°58'28
max. Earth dist.	5723 Jan 15 21:29	25° <b>පි</b> 28'31 :	30.93693 AU	direct	5729 Oct 18 13:22	9° <b>≈</b> 40'12	
morning rise	5723 Jan 25 10:02	25° <b>ろ</b> 50'56		evening set	5730 Jan 19 02:23	11° <b>≈</b> 42'12	
retrograde	5723 Apr 29 09:33	28° <b>る</b> 04'08					
opposition	5723 Jul 15 23:31	26° <b>る</b> 42'07	12°25'06	conjunction	5730 Feb 01 02:58	12° <b>≈</b> 11'33	8°07'17
min. Earth dist.	5723 Jul 15 21:21	26° <b>る</b> 42'16 2	29.02132 AU	minimum elong	5730 Feb 01 03:16	12° <b>≈</b> 11'35	8°07'17
direct	5723 Oct 03 20:34	25° <b>る</b> 17'54		max. Earth dist.	5730 Feb 02 01:19	12° <b>≈</b> 13'39	31.75450 AU
evening set	5724 Jan 08 08:22	27° <b>る</b> 32'26		morning rise	5730 Feb 14 02:51	12° <b>≈</b> 40′50	
				retrograde	5730 May 15 12:13	14° <b>≈</b> 40′17	
conjunction	5724 Jan 18 12:59	27° <b>る</b> 56'17	11°22'17	opposition	5730 Aug 01 22:04	13° <b>≈</b> 20′12	8°21'37
minimum elong	5724 Jan 18 13:22	27° <b>る</b> 56'19	11°22'18	min. Earth dist.	5730 Aug 01 00:04	13° <b>≈</b> 21'40	29.84992 AU
max. Earth dist.	5724 Jan 18 17:52	27° <b>ප</b> 56'46 :	31.02150 AU	direct	5730 Oct 21 05:11	11° <b>≈</b> 58'31	
morning rise	5724 Jan 28 17:17	28° <b>පි</b> 20'08		evening set	5731 Jan 21 06:10	13° <b>≈</b> 58'40	
S	5724 Mar 19 09:45	0° <b>≈</b>		Z .			
retrograde	5724 May 01 00:33	0° <b>≈</b> 31'07		conjunction	5731 Feb 03 15:00	14° <b>≈</b> 28'34	7°32'42
remograde	5724 Jun 14 12:24	30°Rる		minimum elong	5731 Feb 03 15:18	14°≈28'36	
opposition	5724 Jul 17 18:15		11°52'57	max. Earth dist.	5731 Feb 04 15:11		31.90926 AU
min. Earth dist.	5724 Jul 17 12:51	29° <b>る</b> 09'41 2		morning rise	5731 Feb 16 23:10	14°≈58'25	31.70720710
direct	5724 Oct 05 17:21	29 <b>3</b> 0941 2 27° <b>る</b> 45'22	29.10732 AU	morning risc	5731 Feb 17 16:29	14 ≈36 23 15°≈	
	5725 Jan 09 10:43	27 <b>3</b> 43 22 29° <b>る</b> 57'37		ratra arada			
evening set				retrograde	5731 May 17 23:18	16°≈56'10	20.00545 ATT
	5725 Jan 10 11:32	0° <b>≈</b>		min. Earth dist.	5731 Aug 03 11:08		30.00545 AU
	5505 1 00 04 50	00 20120	10051140	opposition	5731 Aug 04 12:15	15°≈36'26	7°44'24
conjunction	5725 Jan 20 04:53	0° <b>≈</b> 22'39			5731 Aug 28 08:41	15°R≈	
minimum elong	5725 Jan 20 05:16	0° <b>≈</b> 22'42		direct	5731 Oct 23 21:42	14°≈15′08	
max. Earth dist.	5725 Jan 20 12:07		31.11704 AU		5731 Dec 16 14:01	15° <b>≈</b>	
morning rise	5725 Jan 30 22:51	0° <b>≈</b> 47'41		evening set	5732 Jan 23 10:01	16° <b>≈</b> 13'30	
retrograde	5725 May 03 16:45	2° <b>≈</b> 56'34					
opposition	5725 Jul 20 12:28	1° <b>≈</b> 34'58	11°19'44	conjunction	5732 Feb 06 02:22	16° <b>≈</b> 43'53	6°57'47
min. Earth dist.	5725 Jul 20 03:46	1°≈35'33 2	29.20508 AU	minimum elong	5732 Feb 06 02:38	16° <b>≈</b> 43'54	6°57'48
direct	5725 Oct 08 12:15	0°≈11′20		max. Earth dist.	5732 Feb 07 04:56	16° <b>≈</b> 46′21	32.07124 AU
evening set	5726 Jan 11 13:25	2° <b>≈</b> 21′23		morning rise	5732 Feb 19 18:05	17° <b>≈</b> 14'12	
				retrograde	5732 May 19 09:32	19° <b>≈</b> 10′21	
conjunction	5726 Jan 22 20:21	2° <b>≈</b> 47'30	10°20'22	min. Earth dist.	5732 Aug 04 23:20	17° <b>≈</b> 52'40	30.16829 AU
minimum elong	5726 Jan 22 20:43	2° <b>≈</b> 47'32	10°20'23	opposition	5732 Aug 06 02:07	17° <b>≈</b> 50'54	7°06'53
max. Earth dist.	5726 Jan 23 07:41	2° <b>≈</b> 48'36 ∶	31.22391 AU	direct	5732 Oct 25 11:10	16° <b>≈</b> 30′00	
morning rise	5726 Feb 03 02:44	3°≈13'35		evening set	5733 Jan 24 13:46	18° <b>≈</b> 26'38	
retrograde	5726 May 06 06:33	5°≈20'25					
opposition	5726 Jul 23 05:59		10°45'34	conjunction	5733 Feb 07 12:57	18° <b>≈</b> 57'24	6°22'38
min. Earth dist.	5726 Jul 22 18:43		29.31380 AU	minimum elong	5733 Feb 07 13:13	18° <b>≈</b> 57'26	
direct	5726 Oct 11 07:45	2°≈35'49	27.51500110	max. Earth dist.	5733 Feb 08 17:52		32.24011 AU
evening set	5727 Jan 13 16:25	4°≈43'44		morning rise	5733 Feb 21 11:20	19° <b>≈</b> 28'07	32.2.011110
o ronning set	5,2, sum 15 10.25	. , , , , , , , , , , , , , , , , , , ,		retrograde	5733 May 21 17:35	19 ≈2807 21°≈22'42	
conjunction	5727 Jan 25 10:57	5° <b>≈</b> 10'49	00/18/05	min. Earth dist.	5733 Aug 07 09:54		30.33779 AU
					•		
minimum elong	5727 Jan 25 11:19		9°48'07	opposition	5733 Aug 08 15:10	20°≈03'34	0 29 10
max. Earth dist.	5727 Jan 26 00:17		31.34177 AU	direct	5733 Oct 28 02:46	18°≈43'02	
morning rise	5727 Feb 06 05:10	5°≈37'52		evening set	5734 Jan 26 17:40	20° <b>≈</b> 38′00	
retrograde	5727 May 08 21:55	7°≈42'44	1001022		550 A D 1 00 00 10	210 0000	50.4511.0
opposition	5727 Jul 25 22:51	6°≈21'42		conjunction	5734 Feb 09 22:48	21°≈09'04	
min. Earth dist.	5727 Jul 25 07:50		29.43340 AU	minimum elong	5734 Feb 09 23:02	21°≈09'06	
direct	5727 Oct 14 00:53	4°≈58'48		max. Earth dist.	5734 Feb 11 05:09		32.41527 AU
evening set	5728 Jan 15 19:32	7° <b>≈</b> 04'41		morning rise	5734 Feb 24 03:23	21° <b>≈</b> 40′05	

retrograde	5734 May 24 02:27	23° <b>≈</b> 33'11		evening set	5741 Feb 08 17:17	5° <b>)</b> €06'39	
min. Earth dist.	5734 Aug 09 19:56	22° <b>≈</b> 16′22	30.51392 AU	C			
opposition	5734 Aug 11 03:23	22°≈14'20	5°51'21	conjunction	5741 Feb 23 22:27	5° <b>₩</b> 38'07	1°41'21
direct	5734 Oct 30 14:23	20°≈54'09		minimum elong	5741 Feb 23 22:31	5° <b>升</b> 38′08	1°41'22
evening set	5735 Jan 28 21:18	22°≈47'30		max. Earth dist.	5741 Feb 25 19:59	5° <b>)</b> 42′05	33.82639 AU
				morning rise	5741 Mar 11 03:14	6° <b>)</b> €09'33	
conjunction	5735 Feb 12 07:59	23° <b>≈</b> 18'49	5°11'55	retrograde	5741 Jun 06 20:49	7° <b>)</b> 54′06	
minimum elong	5735 Feb 12 08:12	23° <b>≈</b> 18'51	5°11'56	min. Earth dist.	5741 Aug 23 22:09	6° <b>)</b> (40′22	31.93812 AU
max. Earth dist.	5735 Feb 13 17:11	23° <b>≈</b> 21'51	32.59680 AU	opposition	5741 Aug 25 20:40	6° <b>)</b> 37′28	1°29'31
morning rise	5735 Feb 26 17:47	23° <b>≈</b> 50′05		direct	5741 Nov 14 16:21	5° <b>)</b> 20′04	
retrograde	5735 May 26 09:22	25° <b>≈</b> 41'44		evening set	5742 Feb 10 20:13	7° <b>₩</b> 04'12	
min. Earth dist.	5735 Aug 12 05:52	24° <b>≈</b> 25′17	30.69646 AU				
opposition	5735 Aug 13 14:54	24° <b>≈</b> 23′09	5°13'30	conjunction	5742 Feb 26 02:37	7° <b>∺</b> 35'31	1°07'07
direct	5735 Nov 02 03:23	23° <b>≈</b> 03′20		minimum elong	5742 Feb 26 02:40	7° <b>∺</b> 35'31	1°07'07
evening set	5736 Jan 31 00:58	24° <b>≈</b> 55′08		max. Earth dist.	5742 Feb 28 02:14	7° <b>∺</b> 39'37	34.05268 AU
				morning rise	5742 Mar 13 08:26	8° <b>)</b> €06'48	
conjunction	5736 Feb 14 16:07	25° <b>≈</b> 26'37	4°36'30	retrograde	5742 Jun 08 23:01	9° <b>升</b> 50′25	
minimum elong	5736 Feb 14 16:18	25° <b>≈</b> 26'38	4°36'30	min. Earth dist.	5742 Aug 26 03:01	8° <b>)</b> €37'07	32.16611 AU
max. Earth dist.	5736 Feb 16 02:33	25° <b>≈</b> 29'43	32.78466 AU	opposition	5742 Aug 28 03:03	8° <b>)</b> (34′09	0°53'18
morning rise	5736 Feb 29 06:46	25° <b>≈</b> 58′02		direct	5742 Nov 17 00:33	7° <b>₩</b> 17'12	
retrograde	5736 May 27 18:02	27° <b>≈</b> 48′20		evening set	5743 Feb 12 23:14	9° <b>₩</b> 00'17	
min. Earth dist.	5736 Aug 13 13:30		30.88593 AU				
opposition	5736 Aug 15 01:38	26° <b>≈</b> 30′01	4°35'41	conjunction	5743 Feb 28 06:03	9° <b>∺</b> 31'24	0°33'16
direct	5736 Nov 03 14:42	25° <b>≈</b> 10′33		minimum elong	5743 Feb 28 06:04	9° <b>)</b> 31′24	
evening set	5737 Feb 01 04:23	27°≈00'52		max. Earth dist.	5743 Mar 02 06:22		34.28312 AU
				morning rise	5743 Mar 15 12:38	10° <b>)</b> 02′30	
conjunction	5737 Feb 15 23:42	27° <b>≈</b> 32′28	4°01'08	retrograde	5743 Jun 11 03:19	11° <b>)</b> 45′14	
minimum elong	5737 Feb 15 23:52	27° <b>≈</b> 32′29	4°01'08	min. Earth dist.	5743 Aug 28 06:55		32.39826 AU
max. Earth dist.	5737 Feb 17 13:29		32.97937 AU	opposition	5743 Aug 30 08:57	10° <b>米</b> 29′20	0°17'32
morning rise	5737 Mar 02 18:14	28°≈04'00		direct	5743 Nov 19 04:52	9° <b>)</b> 12'49	
retrograde	5737 May 30 00:38	29°≈52'59		evening set	5744 Feb 15 01:56	10° <b>)</b> 54'55	
min. Earth dist.	5737 Aug 15 22:13		31.08260 AU	desc. node	5744 Feb 28 07:17	11° <b>∺</b> 21'36	
opposition	5737 Aug 17 11:46	28°≈34'58	3°57'58		554434 01 00 55	1101/05110	0000110
direct	5737 Nov 06 03:03	27°≈15'53		conjunction	5744 Mar 01 08:57	11° <b>)</b> (25'49	
evening set	5738 Feb 03 07:45	29° <b>≈</b> 04'49		minimum elong	5744 Mar 01 08:56	11° <b>)</b> (25'49	0°00'12
	5720 E-1- 10 06-21	20026127	2925152	behind sun begin	5744 Mar 01 02:38	11° <b>米</b> 25'18 11° <b>米</b> 26'19	
conjunction	5738 Feb 18 06:21	29°≈36'27	3°25'52	behind sun end max. Earth dist.	5744 Mar 01 15:14		34.51706 AU
minimum elong max. Earth dist.	5738 Feb 18 06:29		3°25'53 33.18120 AU		5744 Mar 03 11:37	11° <del>X</del> 30'07	34.51/06 AU
max. Earth dist.				morning rise	5744 Mar 16 15:27	11° 77 30°40	
	5738 Feb 19 21:22		33.10120710	•			
morning rise	5738 Mar 01 08:17	0° <b>)</b> €	33.10120710	retrograde	5744 Jun 12 05:19	13° <b>∺</b> 38'35	22 62262 AII
morning rise	5738 Mar 01 08:17 5738 Mar 05 04:25	0° <b>∺</b> 0° <b>∺</b> 08'02	33.10120710	retrograde min. Earth dist.	5744 Jun 12 05:19 5744 Aug 29 11:45	13° <b>¥</b> 38'35 12° <b>¥</b> 26'07	32.63362 AU
retrograde	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15	0° <b>₭</b> 0° <b>₭</b> 08'02 1° <b>₭</b> 55'48		retrograde min. Earth dist. opposition	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18	13° <b>)</b> 38'35 12° <b>)</b> 26'07 12° <b>)</b> 23'01	
retrograde min. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03	0°¥ 0°¥08'02 1°¥55'48 0°¥40'41	31.28656 AU	retrograde min. Earth dist. opposition direct	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18	13°¥38'35 12°¥26'07 12°¥23'01 11°¥06'56	
retrograde	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58	0°¥ 0°¥08'02 1°¥55'48 0°¥40'41 0°¥38'05	31.28656 AU	retrograde min. Earth dist. opposition	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18	13° <b>)</b> 38'35 12° <b>)</b> 26'07 12° <b>)</b> 23'01	
retrograde min. Earth dist. opposition	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55	0°¥ 0°¥08'02 1°¥55'48 0°¥40'41 0°¥38'05 30°R≈	31.28656 AU	retrograde min. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\tiny{\tinit}}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\xi\text{\text{\text{\text{\text{\text{\tinit}\xi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\xi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\texitit{\text{\texitilex{\tiint{\text{\texi}\text{\text{\text{\texi}\text{\texi}\text{\texi	-0°17'44
retrograde min. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°R≈ 29°≈19'24	31.28656 AU	retrograde min. Earth dist. opposition direct evening set conjunction	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi\tinit\text{\text{\text{\text{\text{\text{\text{\texitil\text{\texicl{\text{\texicl{\text{\texit{\texi\tirr{\tirit{\texit{\texi\texi{\texi{\texi{\texi{\texi\tirit{\texi\tirit{\texit{\texi\tint	-0°17'44 -0°33'11
retrograde min. Earth dist. opposition direct	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05	0°¥ 0°¥08'02 1°¥55'48 0°¥40'41 0°¥38'05 30°R≈ 29°≈19'24 0°¥	31.28656 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'656 12°\tas'48'06 13°\tas'18'43 13°\tas'18'43	-0°17'44 -0°33'11 0°33'10
retrograde min. Earth dist. opposition	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₹≈ 29°≈19'24	31.28656 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'656 12°\tas'48'06 13°\tas'18'43 13°\tas'18'43	-0°17'44 -0°33'11
retrograde min. Earth dist. opposition direct	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05	0°¥ 0°¥08'02 1°¥55'48 0°¥40'41 0°¥38'05 30°R≈ 29°≈19'24 0°¥	31.28656 AU 3°20'26	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04	13°\tas35 12°\tas26'07 12°\tas23'01 11°\tas6'56 12°\tas48'06 13°\tas43 13°\tas43 13°\tas23'00	-0°17'44 -0°33'11 0°33'10
retrograde min. Earth dist. opposition direct evening set conjunction	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₹≈ 29°≈19'24 0°₩ 1°₩07'01	31.28656 AU 3°20'26 2°50'47	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texitil{\text{\text{\text{\text{\text{\texi\texi{\text{\texitit{\text{\texi\tint{\texit{\texit{\texi{\texi\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texit{\texi{\tex	-0°17'44 -0°33'11 0°33'10 34.75379 AU
retrograde min. Earth dist. opposition direct evening set	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₹≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40	31.28656 AU 3°20'26 2°50'47 2°50'48	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02 5739 Feb 20 12:28 5739 Feb 20 12:35	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₹≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40	31.28656 AU 3°20'26 2°50'47	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texitil{\text{\text{\text{\text{\text{\texi\texi{\text{\texitit{\text{\texi\tint{\texit{\texit{\texi{\texi\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texit{\texi{\tex	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU
retrograde min. Earth dist. opposition  direct evening set  conjunction minimum elong max. Earth dist. morning rise	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02 5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 22 06:21	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°R≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21	31.28656 AU 3°20'26 2°50'47 2°50'48	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\texit{\text{\text{\text{\tet	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU
retrograde min. Earth dist. opposition  direct evening set conjunction minimum elong max. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02 5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 20 06:21 5739 Mar 07 13:16 5739 Jun 03 12:29	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51	31.28656 AU 3°20'26 2°50'47 2°50'48	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi\tirr{\text{\texit{\texiti}\text{\texi\tin\text{\text{\tiint{\text{\texit{\text{\tet	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU
retrograde min. Earth dist. opposition  direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02 5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 22 06:21 5739 Mar 07 13:16	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46	13°\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi\tirr{\text{\texit{\texiti}\text{\texi\tin\text{\text{\tiint{\text{\texit{\text{\tet	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28
retrograde min. Earth dist. opposition  direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'66'56 12°\tas'48'06 13°\tas'18'43 13°\tas'23'00 13°\tas'49'19 15°\tas'30'26 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 6:21 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 5:29	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'06'56 12°\tas'48'06 13°\tas'18'43 13°\tas'48'13 13°\tas'49'19 15°\tas'30'26 14°\tas'18'25 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47 15°\tas'10'06 15°\tas'10'06	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 20 06:21 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 5:29 5739 Nov 10 23:20	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29 1°₩21'13	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Nov 22 14:46 5746 Feb 18 07:11 5746 Mar 05 12:54 5746 Mar 05 12:54	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'06'56 12°\tas'48'06 13°\tas'18'43 13°\tas'48'13 13°\tas'49'19 15°\tas'30'26 14°\tas'18'25 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47 15°\tas'10'06 15°\tas'10'06	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 20 06:21 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 5:29 5739 Nov 10 23:20	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29 1°₩21'13	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11 5746 Mar 05 12:54 5746 Mar 05 12:52 5746 Mar 07 17:50	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'06'56 12°\tas'48'06 13°\tas'48'3 13°\tas'43' 13°\tas'23'00 13°\tas'49'19 15°\tas'30'26 14°\tas'18'25 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47 15°\tas'10'06 15°\tas'10'06 15°\tas'10'06 15°\tas'14'31	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 22 06:21 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 22 05:29 5739 Nov 10 23:20 5740 Feb 07 14:15	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°R≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29 1°₩21'13 3°₩07'37	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. opposition	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11 5746 Mar 05 12:54 5746 Mar 05 12:52 5746 Mar 07 17:50 5746 Mar 20 18:21	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'66'56 12°\tas'48'06  13°\tas'48'36 13°\tas'43'13°\tas'43'100 13°\tas'49'19 15°\tas'30'26 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47  15°\tas'10'06 15°\tas'10'06 15°\tas'14'31 15°\tas'40'24 17°\tas'20'45	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 22 06:21 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 22 05:29 5739 Nov 10 23:20 5740 Feb 07 14:15	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29 1°₩21'13 3°₩07'37	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11 5746 Mar 05 12:54 5746 Mar 07 17:50 5746 Mar 20 18:21 5746 Jun 16 10:22	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'66'56 12°\tas'48'06 13°\tas'18'43 13°\tas'23'00 13°\tas'49'19 15°\tas'30'26 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47 15°\tas'10'06 15°\tas'10'06 15°\tas'14'31 15°\tas'40'24 17°\tas'20'45 16°\tas'05'50	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41 34.99276 AU 33.11213 AU
retrograde min. Earth dist. opposition  direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 22 06:21 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Nov 10 23:20 5740 Feb 07 14:15  5740 Feb 22 17:53 5740 Feb 22 17:58	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'39 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29 1°₩21'13 3°₩07'37	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08 2°15'55 2°15'56	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44 5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11 5746 Mar 05 12:54 5746 Mar 07 17:50 5746 Mar 20 18:21 5746 Jun 16 10:22 5746 Sep 02 17:57	13°\tas'35 12°\tas'25'01 11°\tas'656 12°\tas'66'56 12°\tas'48'06  13°\tas'18'43 13°\tas'18'43 13°\tas'23'00 13°\tas'19'19 15°\tas'30'26 14°\tas'15'12 12°\tas'59'30 14°\tas'947  15°\tas'10'06 15°\tas'10'06 15°\tas'10'06 15°\tas'14'31 15°\tas'10'04 16°\tas'10'03 16°\tas'10'03 16°\tas'10'03 16°\tas'10'03	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41 34.99276 AU 33.11213 AU
retrograde min. Earth dist. opposition  direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 20 25:29 5739 Nov 10 23:20 5740 Feb 07 14:15  5740 Feb 22 17:58 5740 Feb 24 13:22 5740 Mar 08 20:55 5740 Jun 04 16:40	0°₩ 0°₩08'02 1°₩55'48 0°₩40'41 0°₩38'05 30°₨≈ 29°≈19'24 0°₩ 1°₩07'01 1°₩38'40 1°₩42'21 2°₩10'14 3°₩56'51 2°₩42'09 2°₩39'29 1°₩21'13 3°₩07'37 3°₩39'12 3°₩43'00 4°₩10'43 5°₩56'15	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08 2°15'55 2°15'56 33.60528 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. morning rise retrograde min. Earth dist. opposition	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44  5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11  5746 Mar 05 12:54 5746 Mar 07 17:50 5746 Mar 20 18:21 5746 Jun 16 10:22 5746 Sep 02 17:57 5746 Sep 04 22:59	13°\tas'35 12°\tas'26'07 12°\tas'23'01 11°\tas'66'56 12°\tas'48'06 13°\tas'18'43 13°\tas'23'00 13°\tas'49'19 15°\tas'30'26 14°\tas'15'12 12°\tas'59'30 14°\tas'39'47 15°\tas'10'06 15°\tas'10'06 15°\tas'14'31 15°\tas'40'24 17°\tas'20'45 16°\tas'05'50	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41 34.99276 AU 33.11213 AU
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 20 5:29 5739 Nov 10 23:20 5740 Feb 07 14:15  5740 Feb 22 17:58 5740 Feb 24 13:22 5740 Mar 08 20:55 5740 Jun 04 16:40 5740 Aug 21 16:27	0°₩ 0°₩ 08'02 1°₩ 55'48 0°₩ 40'41 0°₩ 38'05 30° 8≈ 29°≈ 19'24 0°₩ 1°₩ 07'01 1°₩ 38'40 1°₩ 42'21 2°₩ 10'14 3°₩ 56'51 2°₩ 42'09 2°₩ 39'29 1°₩ 21'13 3°₩ 39'12 3°₩ 39'12 3°₩ 43'00 4°₩ 10'43 5°₩ 56'15 4°₩ 42'04	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08 2°15'55 2°15'56 33.60528 AU 31.71492 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44  5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11  5746 Mar 05 12:54 5746 Mar 05 12:52 5746 Mar 07 17:50 5746 Mar 20 18:21 5746 Sep 02 17:57 5746 Sep 04 22:59 5746 Nov 24 21:03 5747 Feb 20 09:33	13° \times 38'35 12° \times 26'07 12° \times 23'01 11° \times 06'56 12° \times 48'06 13° \times 18'43 13° \times 23'00 13° \times 49'19 15° \times 30'26 14° \times 18'25 14° \times 18'25 14° \times 19'30 14° \times 39'47 15° \times 10'06 15° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 20'57	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41 34.99276 AU 33.11213 AU -1°26'39
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. morning rise retrograde min. Earth dist. opposition	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 20 5:29 5739 Nov 10 23:20 5740 Feb 07 14:15  5740 Feb 22 17:58 5740 Feb 24 13:22 5740 Mar 08 20:55 5740 Jun 04 16:40 5740 Aug 21 16:27 5740 Aug 23 13:21	0°₩ 0°₩ 08'02 1°₩ 55'48 0°₩ 40'41 0°₩ 38'05 30° 8≈ 29°≈ 19'24 0°₩ 1°₩ 07'01 1°₩ 38'39 1°₩ 38'40 1°₩ 42'21 2°₩ 10'14 3°₩ 56'51 2°₩ 42'09 2°₩ 39'29 1°₩ 21'13 3°₩ 07'37 3°₩ 39'12 3°₩ 43'00 4°₩ 10'43 5°₩ 56'15 4°₩ 42'04 4°₩ 39'15	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08 2°15'55 2°15'56 33.60528 AU 31.71492 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44  5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11  5746 Mar 05 12:54 5746 Mar 05 12:52 5746 Mar 07 17:50 5746 Mar 20 18:21 5746 Sep 04 18:21 5746 Sep 04 22:59 5746 Nov 24 21:03 5747 Feb 20 09:33	13° \times 38'35 12° \times 26'07 12° \times 23'01 11° \times 06'56 12° \times 48'06 13° \times 18'43 13° \times 23'00 13° \times 49'19 15° \times 30'26 14° \times 18'25 14° \times 15'12 12° \times 59'30 14° \times 39'47 15° \times 10'06 15° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 50'55 16° \times 50'55	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41 34.99276 AU 33.11213 AU -1°26'39 -1°37'39
retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	5738 Mar 01 08:17 5738 Mar 05 04:25 5738 Jun 01 08:15 5738 Aug 18 04:03 5738 Aug 19 20:58 5738 Sep 14 22:55 5738 Nov 08 13:38 5738 Dec 30 17:05 5739 Feb 05 11:02  5739 Feb 20 12:28 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Feb 20 12:35 5739 Mar 07 13:16 5739 Jun 03 12:29 5739 Aug 20 11:23 5739 Aug 20 11:23 5739 Aug 20 5:29 5739 Nov 10 23:20 5740 Feb 07 14:15  5740 Feb 22 17:58 5740 Feb 24 13:22 5740 Mar 08 20:55 5740 Jun 04 16:40 5740 Aug 21 16:27	0°₩ 0°₩ 08'02 1°₩ 55'48 0°₩ 40'41 0°₩ 38'05 30° 8≈ 29°≈ 19'24 0°₩ 1°₩ 07'01 1°₩ 38'40 1°₩ 42'21 2°₩ 10'14 3°₩ 56'51 2°₩ 42'09 2°₩ 39'29 1°₩ 21'13 3°₩ 39'12 3°₩ 39'12 3°₩ 43'00 4°₩ 10'43 5°₩ 56'15 4°₩ 42'04	31.28656 AU 3°20'26 2°50'47 2°50'48 33.38992 AU 31.49754 AU 2°43'08 2°15'55 2°15'56 33.60528 AU 31.71492 AU	retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	5744 Jun 12 05:19 5744 Aug 29 11:45 5744 Aug 31 14:18 5744 Nov 20 10:18 5745 Feb 16 04:44  5745 Mar 03 11:12 5745 Mar 03 11:11 5745 Mar 05 14:04 5745 Mar 18 17:31 5745 Jun 14 08:57 5745 Aug 31 14:01 5745 Sep 02 18:55 5745 Nov 22 14:46 5746 Feb 18 07:11  5746 Mar 05 12:54 5746 Mar 05 12:52 5746 Mar 07 17:50 5746 Mar 20 18:21 5746 Sep 02 17:57 5746 Sep 04 22:59 5746 Nov 24 21:03 5747 Feb 20 09:33	13° \times 38'35 12° \times 26'07 12° \times 23'01 11° \times 06'56 12° \times 48'06 13° \times 18'43 13° \times 23'00 13° \times 49'19 15° \times 30'26 14° \times 18'25 14° \times 18'25 14° \times 19'30 14° \times 39'47 15° \times 10'06 15° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 10'05 16° \times 20'57	-0°17'44 -0°33'11 0°33'10 34.75379 AU 32.87176 AU -0°52'28 -1°05'40 1°05'41 34.99276 AU 33.11213 AU -1°26'39 -1°37'39

max. Earth dist.	5747 Mar 09 19:14	17° <b>₭</b> 04'20 35.23376	AU conjunction	5754 Mar 19 04:36	29° <b>¥</b> 06'27 -5°05'27
morning rise	5747 Mar 09 19:14 5747 Mar 22 18:12	17° <b>)</b> €29'53	minimum elong	5754 Mar 19 04:27	29° <b>\</b> 06'27 -5 05'28
retrograde	5747 Jun 18 11:43	17 <b>X</b> 2933 19° <b>X</b> 09'30	max. Earth dist.	5754 Mar 21 18:24	29°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\
min. Earth dist.	5747 Juli 18 11.43 5747 Sep 04 19:10	17° <b>)</b> 58'12 33.35461		5754 Apr 02 13:25	29° <b>)</b> (33'24
	•	17°\ 54'53 -2°00'15	AU morning rise	-	29 <del>Υ</del> 33 24 0° <b>Υ</b>
opposition	5747 Sep 07 02:09			5754 Apr 17 12:04	* •
direct	5747 Nov 27 02:34	16° <b>¥</b> 39'55	retrograde	5754 Jun 29 22:39	1° <b>Υ</b> 09'14
evening set	5748 Feb 22 11:44	18° <b>¥</b> 18′32	min. Earth dist.	5754 Sep 16 16:55	0°Υ00'26 35.13029 AU
	5540.34 00 14.00	1001/10100 2000106		5754 Sep 17 00:20	30°R <b>X</b>
conjunction	5748 Mar 08 14:23	18° <b>¥</b> 48'08 -2°09'06	opposition	5754 Sep 19 08:31	29° <b>¥</b> 56'45 -5°37'20
minimum elong	5748 Mar 08 14:18	18° <b>¥</b> 48′08 2°09′07	direct	5754 Dec 09 11:52	28° <b>∺</b> 44′20
max. Earth dist.	5748 Mar 10 21:06	18° <b>¥</b> 52'39 35.47680		5755 Feb 24 11:26	0° <b>Υ</b>
morning rise	5748 Mar 23 17:00	19° <b>¥</b> 17'45	evening set	5755 Mar 06 20:50	0° <b>Υ</b> 18'36
retrograde	5748 Jun 19 10:07	20° <b>¥</b> 56'41			
min. Earth dist.	5748 Sep 05 21:13	19° <b>¥</b> 45'41 33.59970	AU conjunction	5755 Mar 21 01:13	0° <b>Υ</b> 45'01 -5°32'40
opposition	5748 Sep 08 04:59	19° <b>¥</b> 42′21 -2°33′14	minimum elong	5755 Mar 21 01:03	$0^{\circ}$ <b>Y</b> 45'00 5°32'39
direct	5748 Nov 28 06:13	18° <b>¥</b> 27'44	max. Earth dist.	5755 Mar 23 15:56	0° <b>Υ</b> 49'55 37.25255 AU
evening set	5749 Feb 23 13:27	20° <b>₭</b> 05'34	morning rise	5755 Apr 04 05:58	1° <b>Υ</b> 11'28
			retrograde	5755 Jul 01 18:21	2° <b>Y</b> 46'56
conjunction	5749 Mar 10 14:06	20° <b>)</b> 34'46 -2°40'00	min. Earth dist.	5755 Sep 18 15:28	1° <b>Ƴ</b> 38'26 35.39186 AU
minimum elong	5749 Mar 10 14:00	20° <b>)</b> 34'46 2°39'59	opposition	5755 Sep 21 07:17	1° <b>Y</b> 34'45 -6°05'37
max. Earth dist.	5749 Mar 12 22:25	20° <b>)</b> 39′22 35.72250	AU direct	5755 Dec 11 11:52	0° <b>Ƴ</b> 22'44
morning rise	5749 Mar 25 14:34	21° <b>)</b> €03'59	evening set	5756 Mar 07 21:31	1° <b>Y</b> ′56'33
retrograde	5749 Jun 21 06:38	22° <b>¥</b> 42'17			
min. Earth dist.	5749 Sep 07 21:48	21° <b>)</b> 31'39 33.84761	AU conjunction	5756 Mar 21 21:34	2° <b>Y</b> '22'27 -5°59'14
opposition	5749 Sep 10 07:03	21° <b>)</b> 28'14 -3°05'36	minimum elong	5756 Mar 21 21:23	2° <b>Y</b> '22'26 5°59'15
direct	5749 Nov 30 11:06	20° <b>)</b> 13′57	max. Earth dist.	5756 Mar 24 13:11	2° <b>Υ</b> 27'23 37.51256 AU
evening set	5750 Feb 25 15:14	21° <b>¥</b> 51′04	morning rise	5756 Apr 04 21:45	2° <b>Y</b> '48'22
C			retrograde	5756 Jul 02 12:20	4° <b>Υ</b> 23'30
conjunction	5750 Mar 12 13:14	22° <b>)</b> 19'52 -3°10'19	min. Earth dist.	5756 Sep 19 13:17	3° <b>Υ</b> 15'20 35.65337 AU
minimum elong	5750 Mar 12 13:07	22° <b>)</b> 19'51 3°10'19	opposition	5756 Sep 22 05:36	3° <b>Υ</b> '11'38 -6°33'12
max. Earth dist.	5750 Mar 14 22:15	22° <b>)</b> 24'29 35.97104	* *	5756 Dec 12 12:33	1° <b>Υ</b> 59'59
morning rise	5750 Mar 27 11:25	22° <b>)</b> 48'39	evening set	5757 Mar 09 22:06	3° <b>Y</b> ′33′23
retrograde	5750 Jun 23 05:42	24° <b>)</b> € 26'22	<i>3</i>		
min. Earth dist.	5750 Sep 09 21:19	23°¥16'06 34.09883	AU conjunction	5757 Mar 23 17:16	3° <b>Y</b> 58'44 -6°25'10
opposition	5750 Sep 12 08:21	23° <b>光</b> 12'36 -3°37'18	minimum elong	5757 Mar 23 17:04	3° <b>Υ</b> '58'43 6°25'10
direct	5750 Dec 02 11:36	21° <b>)</b> 58'41	max. Earth dist.	5757 Mar 26 08:39	4° <b>Υ</b> 03'38 37.77207 AU
evening set	5751 Feb 27 16:39	23°\(\frac{1}{35}\)'08	morning rise	5757 Apr 06 12:54	4° <b>Υ</b> 24'08
evening sec	3731100 27 10.37	25 7(55 00	retrograde	5757 Jul 04 08:57	5° <b>Υ</b> 58'57
conjunction	5751 Mar 14 11:58	24° <b>)</b> (03'29 -3°40'02	min. Earth dist.	5757 Sep 21 10:08	4° <b>Υ</b> 51'07 35.91433 AU
minimum elong	5751 Mar 14 11:50	24° <del>X</del> 03'28 3°40'01	opposition	5757 Sep 24 03:27	4° <b>Υ</b> 47'24 -7°00'05
max. Earth dist.	5751 Mar 16 23:07	24° <b>\(\)</b> 08'15 36.22273		5757 Dec 14 09:37	3° <b>Y</b> 36'05
morning rise	5751 Mar 10 25:07	24° <del>)(</del> 31'51	evening set	5758 Mar 11 22:31	5° <b>Υ</b> 09'05
retrograde	5751 Jun 25 02:54	26° <b>)</b> €09'02	evening set	3/36 Wiai 11 22.31	3 1 09 03
min. Earth dist.	5751 Sep 11 21:42	24° <del>\(\)</del> 59'05 34.35309	AU conjunction	5758 Mar 25 12:50	5° <b>Υ</b> '33'54 -6°50'29
opposition	5751 Sep 14 09:14	24° <del>X</del> 55'34 -4°08'20	minimum elong	5758 Mar 25 12:39	5° <b>Υ</b> 33'53 6°50'29
	5751 Dec 04 13:38	23° <b>)</b> (42'02	max. Earth dist.	5758 Mar 28 05:28	5° <b>Υ</b> 38'51 38.03060 AU
direct	5751 Dec 04 13:38 5752 Feb 29 17:57	25° <b>H</b> 17'51			5° <b>Υ</b> 58'45
evening set	3/32 Feb 29 17.37	25 <b>K</b> 1/31	morning rise	5758 Apr 08 03:22	7° <b>Υ</b> 33'17
conjunction	5752 Mar 15 09:54	25° <b>)</b> 45'44 -4°09'08	retrograde min. Earth dist.	5758 Jul 06 03:28	6° <b>Υ</b> 25'41 36.17404 AU
minimum elong	5752 Mar 15 09:46	25° <b>)</b> (45'44 4°09'08		5758 Sep 23 08:00	6° <b>Υ</b> 22'01 -7°26'18
			opposition	5758 Sep 26 00:39	5° <b>Υ</b> 11'01
max. Earth dist.	5752 Mar 17 21:16	25° <b>)</b> 50'29 36.47726		5758 Dec 16 07:42	6° <b>Υ</b> 43'40
morning rise	5752 Mar 30 02:04	26° <b>)</b> 13'39	evening set	5759 Mar 13 22:51	6° 1 43 40
retrograde	5752 Jun 26 02:53	27° <b>)</b> 50'21	ATT	5350 ) (	700007155 7015100
min. Earth dist.	5752 Sep 12 19:42	26°\(\frac{1}{4}\)40'49 34.61018	-	5759 Mar 27 07:47	7° <b>Υ</b> 07'55 -7°15'09
opposition	5752 Sep 15 09:32	26° <b>)</b> √37'12 -4°38'42	minimum elong	5759 Mar 27 07:36	7° <b>Υ</b> 07'54 7°15'09
direct	5752 Dec 05 12:34	25° <b>)</b> €24'02	max. Earth dist.	5759 Mar 29 23:34	7° <b>Υ</b> 12'46 38.28782 AU
evening set	5753 Mar 02 19:02	26° <b>∺</b> 59'18	morning rise	5759 Apr 09 17:10	7° <b>Y</b> 32'12
	5752 NA 17 07 33	270 1 20142 402712	retrograde	5759 Jul 08 00:20	9° <b>°</b> 06'28
conjunction	5753 Mar 17 07:32	27° <del>X</del> 26'43 -4°37'36	min. Earth dist.	5759 Sep 25 03:26	7° <b>Υ</b> 59'10 36.43249 AU
minimum elong	5753 Mar 17 07:23	27° <b>)</b> 26'42 4°37'36	opposition	5759 Sep 27 21:25	7° <b>Y</b> 55'27 -7°51'49
max. Earth dist.	5753 Mar 19 21:01	27°\(\frac{1}{3}\) 36.73418		5759 Dec 18 03:07	6° <b>Y</b> 44'46
morning rise	5753 Mar 31 20:08	27° <b>¥</b> 54'09	evening set	5760 Mar 14 22:43	8° <b>Ƴ</b> 17'04
retrograde	5753 Jun 28 01:35	29° <b>)</b> 30'24		### CO Y 5 - 55 - 5 - 5	000010115
min. Earth dist.	5753 Sep 14 19:26	28°\(\frac{1}{2}\)1'11 34.86952	•	5760 Mar 28 02:13	8° <b>Y</b> 40'45 -7°39'12
opposition	5753 Sep 17 09:21	28° <b>升</b> 17'34 -5°08'22	minimum elong	5760 Mar 28 02:01	8° <b>Y</b> 40'44 7°39'13
direct	5753 Dec 07 11:54	27° <b>米</b> 04'48	max. Earth dist.	5760 Mar 30 19:14	8° <b>Υ</b> 45'39 38.54375 AU
evening set	5754 Mar 04 19:57	28° <b>∺</b> 39'32	morning rise	5760 Apr 10 06:06	9° <b>Ƴ</b> 04'28

Tranctary Triche	incha of Fluto Itol	ii 3000 tiilougii 0102 (	O 1), Astrodictist AO	10-10-2023 14.2.	o, page 15
retrograde	5760 Jul 08 19:29	10° <b>Ƴ</b> 38'29	minimum elong	5767 Apr 07 23:25	19° <b>Υ</b> '00'52 10°09'43
min. Earth dist.	5760 Sep 26 00:27	9° <b>Υ</b> 31'23 36.69000 AU		5767 Apr 10 19:43	19° <b>Υ</b> 05'48 40.32827 AU
opposition	5760 Sep 28 17:52	9° <b>Υ</b> 27'43 -8°16'40	morning rise	5767 Apr 19 06:44	19° <b>Υ</b> 20'23
direct	5760 Dec 18 22:51	8° <b>Υ</b> 17'20	retrograde	5767 Jul 19 16:20	20°Υ′53'29
evening set	5761 Mar 16 22:28	9° <b>Υ</b> 49'19	min. Earth dist.	5767 Oct 07 06:45	19° <b>Υ</b> 48'19 38.48769 AU
evening sec	3701 Mar 10 22.20	7 1 17 17	opposition	5767 Oct 10 03:20	19° <b>γ</b> ′44'35 -10°51'23
conjunction	5761 Mar 29 20:14	10° <b>Y</b> 12'25 -8°02'37	direct	5767 Dec 30 09:48	18° <b>Υ</b> '36'22
minimum elong	5761 Mar 29 20:02	10° <b>Υ</b> 12'24 8°02'37	evening set	5768 Mar 28 15:33	20° <b>Υ</b> 07'03
max. Earth dist.	5761 Apr 01 13:23	10° <b>Υ</b> 17'18 38.79902 AU	-	3700 With 20 13.33	20 10703
morning rise	5761 Apr 11 18:18	10° <b>Υ</b> 35'33	conjunction	5768 Apr 08 14:58	20° <b>Y</b> °25'53 -10°28'43
retrograde	5761 Jul 10 11:31	12° <b>Υ</b> 09'20	minimum elong	5768 Apr 08 14:45	20°Υ25'52 10°28'43
min. Earth dist.	5761 Sep 27 18:55	11° <b>Υ</b> 02'33 36.94704 AU	Č	5768 Apr 11 11:18	20° <b>γ</b> '30'48 40.58042 AU
opposition	5761 Sep 30 13:32	10° <b>γ</b> ′58'49 -8°40'49	morning rise	5768 Apr 19 14:41	20° <b>Υ</b> 44'46
direct	5761 Dec 20 20:57	9° <b>Υ</b> 48'43	retrograde	5768 Jul 20 05:14	22° <b>Υ</b> 17'50
evening set	5761 Dec 20 20:37 5762 Mar 18 22:00	11° <b>Υ</b> '20'26	min. Earth dist.	5768 Oct 07 23:25	21° <b>Υ</b> 12'56 38.74079 AU
evening set	3702 Wai 10 22.00	11 12020	opposition	5768 Oct 10 20:17	21° <b>Υ</b> 09'12 -11°10'51
conjunction	5762 Mar 31 13:42	11° <b>Y</b> '42'56 -8°25'23	direct	5768 Dec 31 05:36	20° <b>Υ</b> 01'16
minimum elong	5762 Mar 31 13:29	11° <b>γ</b> '42'55 8°25'24	evening set	5769 Mar 30 14:11	21° <b>Υ</b> 31'53
max. Earth dist.	5762 Apr 03 07:16	11° <b>Υ</b> 42'53 8 25'24 11° <b>Υ</b> 47'50 39.05397 AU	_	3709 Wiai 30 14.11	21   31 33
morning rise	5762 Apr 13 05:58	11	conjunction	5769 Apr 10 06:03	21° <b>Υ</b> ′50'05 -10°47'08
retrograde	5762 Jul 12 03:50	13° <b>Υ</b> 39'05	minimum elong	5769 Apr 10 05:51	21° <b>Υ</b> 50'04 10°47'09
min. Earth dist.	5762 Sep 29 13:56	13 γ 39 03 12° <b>γ</b> 32'33 37.20418 AU	Č	5769 Apr 13 01:40	21° <b>Y</b> 54'55 40.83017 AU
opposition	5762 Sep 29 13:30 5762 Oct 02 08:56	12 <b>γ</b> 32 33 37.20418 AO 12° <b>γ</b> 28'49 -9°04'17	morning rise	5769 Apr 20 22:28	22° <b>Y</b> 08'19
direct	5762 Dec 22 17:40	12 <b>γ</b> 28 49 -9 04 17 11° <b>γ</b> 19'01	retrograde	5769 Jul 21 19:43	23° <b>Y</b> 41'22
evening set	5762 Dec 22 17:40 5763 Mar 20 21:17	12° <b>Υ</b> '50'29	min. Earth dist.	5769 Oct 09 15:56	22° <b>Υ</b> 36'43 38.99141 AU
evening set	3/03 Wiai 20 21.17	12   30 29	opposition	5769 Oct 12 12:52	22° <b>Υ</b> 32'59 -11°29'41
conjunction	5763 Apr 02 06:53	13° <b>Ƴ</b> 12'24 -8°47'31	direct	5770 Jan 01 23:06	21° <b>Y</b> 25'20
minimum elong	5763 Apr 02 06:41	13° <b>Y</b> 12'24 -8 4/31 13° <b>Y</b> 12'23 8°47'31	evening set	5770 Apr 01 12:37	21 γ 23 20 22° <b>Υ</b> 55'53
max. Earth dist.	5763 Apr 05 01:37	13° <b>Υ</b> 17'21 39.30911 AU	-	3//0 Apr 01 12.3/	22 1 33 33
morning rise	5763 Apr 14 16:45	13° <b>Υ</b> 34'20	conjunction	5770 Apr 11 21:00	23° <b>Y</b> 13'26 -11°05'00
retrograde	5763 Jul 13 18:40	15° <b>Υ</b> 07'47	minimum elong	5770 Apr 11 21:00 5770 Apr 11 20:47	23° <b>Y</b> 13'25 11°05'00
min. Earth dist.	5763 Oct 01 08:33	13 γ 0/4/ 14° <b>Υ</b> 01'31 37.46140 AU		5770 Apr 14 17:14	23°Υ18'17 41.07711 AU
opposition	5763 Oct 01 08:33 5763 Oct 04 03:46	13° <b>Υ</b> '57'47 -9°27'03	morning rise	5770 Apr 14 17:14 5770 Apr 22 05:38	23°Y31'02
direct	5763 Dec 24 14:49	13 <b>γ</b> 3/4/ -9 2/03 12° <b>γ</b> 48'18	retrograde	5770 Apr 22 05:58 5770 Jul 23 08:54	25° <b>Y</b> 04'05
evening set	5764 Mar 21 20:31	14° <b>Y</b> 19'33	min. Earth dist.	5770 Oct 11 09:16	23° <b>Υ</b> 59'34 39.23880 AU
evening set	3/04 Mai 21 20.31	14   1933	opposition	5770 Oct 11 05:16 5770 Oct 14 05:08	23°Y55'55 -11°47'56
conjunction	5764 Apr 02 23:33	14° <b>Ƴ</b> 40'51 -9°09'00	direct	5770 Oct 14 05:08 5771 Jan 03 17:15	22° <b>Y</b> 48'31
minimum elong	5764 Apr 02 23:30	14° <b>Υ</b> 40'50 9°09'01	evening set	5771 Apr 03 11:03	24° <b>Y</b> 19'00
max. Earth dist.	5764 Apr 05 17:57	14° <b>Υ</b> 45'45 39.56441 AU		3//1 Apr 03 11.03	24   1900
morning rise	5764 Apr 15 03:09	15° <b>Υ</b> 02'12	conjunction	5771 Apr 13 11:25	24° <b>Ƴ</b> 35'54 -11°22'17
retrograde	5764 Jul 14 12:32	16° <b>Υ</b> 35'31	minimum elong	5771 Apr 13 11:13	24° <b>Y</b> 35'53 11°22'19
min. Earth dist.	5764 Oct 02 01:40	15° <b>Υ</b> 29'35 37.71888 AU	•	5771 Apr 16 06:22	24°Y40'38 41.32080 AU
opposition	5764 Oct 04 22:18	15° <b>Υ</b> 25'47 -9°49'09	morning rise	5771 Apr 10 00.22 5771 Apr 23 12:13	24°Υ52'51
direct	5764 Dec 25 08:15	13 <b>γ</b> 23 47 - 9 49 09 14° <b>γ</b> 16'37	retrograde	5771 Jul 25 00:40	26°Υ25'53
evening set	5765 Mar 23 19:21	15° <b>Υ</b> 47'41	min. Earth dist.	5771 Oct 13 00:22	25° <b>Υ</b> 21'37 39.48297 AU
evening set	3703 Widi 23 17.21	13   4/41	opposition	5771 Oct 15 00:22 5771 Oct 15 20:58	25° <b>Y</b> 17'57 -12°05'35
conjunction	5765 Apr 04 15:54	16° <b>Y</b> ′08'23 -9°29'52	direct	5777 Jan 05 08:19	24°Υ10'47
minimum elong	5765 Apr 04 15:42	16° <b>Υ</b> '08'22 9°29'52	evening set	5772 Apr 04 09:12	25° <b>Υ</b> 41'11
max. Earth dist.	5765 Apr 07 11:54	16° <b>Υ</b> 13'22 39.81972 AU	_	3772 Apr 04 03.12	23   4111
morning rise	5765 Apr 16 12:49	16° <b>Y</b> 29'08	conjunction	5772 Apr 14 01:36	25° <b>Y</b> ′57'27 -11°39'02
retrograde	5765 Jul 16 05:49	18° <b>Υ</b> 02'21	minimum elong	5772 Apr 14 01:30	25° <b>Υ</b> '57'26 11°39'03
min. Earth dist.	5765 Oct 03 20:24	16° <b>Υ</b> 56'38 37.97608 AU		5772 Apr 14 01:23	26° <b>Υ</b> 02'11 41.56136 AU
opposition	5765 Oct 06 16:27	16° <b>Υ</b> '52'54 -10°10'33	morning rise	5772 Apr 23 18:21	26° <b>Υ</b> 13'44
direct	5765 Dec 27 01:39	15° <b>Υ</b> 44'03	retrograde	5772 Jul 25 16:16	27° <b>Y</b> 46'47
evening set	5766 Mar 25 18:17	17° <b>Υ</b> 14'57	min. Earth dist.	5772 Oct 13 17:07	26° <b>Υ</b> 42'37 39.72425 AU
evening set	3700 Wai 23 10.17	1/   143/	opposition	5772 Oct 16 12:35	26° <b>Υ</b> '39'01 -12°22'39
conjunction	5766 Apr 06 07:56	17° <b>Ƴ</b> '35'03 -9°50'05	direct	5772 Oct 10 12:53 5773 Jan 05 22:52	25°Υ32'05
minimum elong	5766 Apr 06 07:42	17° <b>Υ</b> '35'02 9°50'06	evening set	5773 Apr 06 07:15	27° <b>Υ</b> '02'27
max. Earth dist.	5766 Apr 09 03:20	17° <b>Υ</b> 39'57 40.07456 AU	-	5775 11p1 00 07.15	-/ 1 022/
morning rise	5766 Apr 17 22:00	17° <b>Υ</b> 55'11	conjunction	5773 Apr 15 15:20	27° <b>Y</b> 18′02 -11°55′13
retrograde	5766 Jul 18 00:33	19° <b>Υ</b> 28'19	minimum elong	5773 Apr 15 15:20	27° <b>γ</b> '18'01 11°55'15
min. Earth dist.	5766 Oct 05 12:40	18° <b>Υ</b> 22'56 38.23252 AU	_	5773 Apr 18 10:31	27°Υ22'44 41.79939 AU
opposition	5766 Oct 08 09:54	18° <b>γ</b> ′19'09 -10°31'18	morning rise	5773 Apr 24 23:41	27° <b>Υ</b> 33'39
direct	5766 Dec 28 16:51	17° <b>Υ</b> 10'37	retrograde	5773 Jul 27 05:58	29° <b>Υ</b> ′06'43
evening set	5767 Mar 27 17:01	18° <b>Υ</b> 41'24	min. Earth dist.	5773 Oct 15 07:31	28° <b>Υ</b> '02'46 39.96315 AU
<i>5</i>			opposition	5773 Oct 18 03:37	27° <b>Υ</b> ′59'09 -12°39'08
conjunction	5767 Apr 07 23:37	19° <b>Y</b> ′00'53 -10°09'42	direct	5774 Jan 07 13:30	26°Υ'52'25
	r ==== /				-

evening set	5774 Apr 08 05:12	28° <b>Ƴ</b> 22'47	conjunction	5780 Apr 24 07:20	6° <b>8</b> 20'05 -13°33'10
			minimum elong	5780 Apr 24 07:11	6° <b>8</b> 20'04 13°33'11
conjunction	5774 Apr 17 04:44	28° <b>Y</b> 37'42 -12°10'51	max. Earth dist.	5780 Apr 27 03:00	6° <b>8</b> 24'38 43.42077 AU
minimum elong	5774 Apr 17 04:32	28° <b>Y</b> 37'41 12°10'52	morning rise	5780 Apr 30 22:19	6° <b>8</b> 30'46
max. Earth dist.	5774 Apr 19 23:44	28° <b>Y</b> 42'21 42.03531 AU	retrograde	5780 Aug 04 20:16	8° <b>엉</b> 04'54
morning rise	5774 Apr 26 04:39	28° <b>Y</b> 52'38	min. Earth dist.	5780 Oct 24 08:47	7° <b>と</b> 02'22 41.59151 AU
	5774 Jun 12 10:25	0° <b>8</b>	opposition	5780 Oct 27 04:05	6° <b>႘</b> 58'53 -14°18'18
retrograde	5774 Jul 28 18:20	0° <b>8</b> 25'46	direct	5781 Jan 16 15:36	5° <b>8</b> 53'53
	5774 Sep 14 11:32	30° <b>₹Ƴ</b>	evening set	5781 Apr 19 14:42	7° <b>と</b> 25'11
min. Earth dist.	5774 Oct 16 22:26	29° <b>Υ</b> 21'58 40.20041 AU		1	
opposition	5774 Oct 19 18:17	29° <b>Y</b> 18'23 -12°55'01	conjunction	5781 Apr 25 18:53	7° <b>8</b> 35'06 -13°45'05
direct	5775 Jan 09 05:12	28°Υ11'52	minimum elong	5781 Apr 25 18:43	7° <b>8</b> 35'05 13°45'07
evening set	5775 Apr 10 03:05	29° <b>Υ</b> 42'16	max. Earth dist.	5781 Apr 28 13:17	7° <b>8</b> 39'33 43.64381 AU
evening set	3773 Apr 10 03.03	29   42 10		5781 May 01 23:11	7° <b>8</b> 45'01
. ,.	5775 A 10 17 57	2000056120 12025156	morning rise	•	<del>-</del>
conjunction	5775 Apr 18 17:57	29° <b>Y</b> '56'30 -12°25'56	retrograde	5781 Aug 06 07:15	9°819'26
minimum elong	5775 Apr 18 17:46	29° <b>Y</b> 56'29 12°25'57	min. Earth dist.	5781 Oct 25 21:44	8°817'06 41.81456 AU
	5775 Apr 20 20:40	0° <b>8</b>	opposition	5781 Oct 28 16:50	8° <b>8</b> 13'38 -14°30'18
max. Earth dist.	5775 Apr 21 13:51	0° <b>8</b> 01'11 42.26987 AU		5782 Jan 18 05:20	7° <b>8</b> 08'53
morning rise	5775 Apr 27 08:59	0° <b>8</b> 10'45	evening set	5782 Apr 21 13:29	8° <b>8</b> 40'28
retrograde	5775 Jul 30 04:19	1° <b>8</b> 43'57			
min. Earth dist.	5775 Oct 18 12:57	0° <b>8</b> 40'21 40.43625 AU	conjunction	5782 Apr 27 06:30	8° <b>8</b> 49'35 -13°56'32
opposition	5775 Oct 21 08:39	0° <b>8</b> 36'46 -13°10'19	minimum elong	5782 Apr 27 06:21	8° <b>8</b> 49'35 13°56'33
	5775 Nov 21 01:37	30° <b>₹</b> Υ	max. Earth dist.	5782 Apr 30 01:21	8° <b>と</b> 54'03 43.86311 AU
direct	5776 Jan 10 22:30	29° <b>Ƴ</b> 30'30	morning rise	5782 May 02 23:31	8° <b>ප</b> 58'43
	5776 Feb 28 21:05	0° <b>႘</b>	retrograde	5782 Aug 07 18:10	10° <b>8</b> 33'27
evening set	5776 Apr 11 00:49	1° <b>8</b> 00'57	min. Earth dist.	5782 Oct 27 11:37	9° <b>8</b> 31'14 42.03345 AU
e vennig see	277011p1 11 00.15	1 00037	opposition	5782 Oct 30 05:12	9° <b>8</b> 27'52 -14°41'50
conjunction	5776 Apr 19 06:34	1° <b>8</b> 14'30 -12°40'27	direct	5783 Jan 19 19:36	8° <b>8</b> 23'20
·	•	1°814'30 -12 40'27			9° <b>8</b> 55'14
minimum elong	5776 Apr 19 06:22	_	evening set	5783 Apr 23 12:46	9 033 14
max. Earth dist.	5776 Apr 22 01:37	1° <b>8</b> 19'06 42.50319 AU		5500 4 00 15 15	100120000 1100000
morning rise	5776 Apr 27 12:37	1° <b>8</b> 28'04	conjunction	5783 Apr 28 17:45	10° <b>8</b> 03'30 -14°07'32
retrograde	5776 Jul 30 17:56	3° <b>8</b> 01'23	minimum elong	5783 Apr 28 17:36	10° <b>8</b> 03'30 14°07'33
min. Earth dist.	5776 Oct 19 02:06	1° <b>8</b> 58'02 40.67096 AU		5783 May 01 10:59	10° <b>8</b> 07'50 44.07830 AU
opposition	5776 Oct 21 22:45	1° <b>8</b> 54'25 -13°25'01	morning rise	5783 May 03 22:44	10° <b>8</b> 11'48
direct	5777 Jan 11 12:10	0° <b>8</b> 48'23	retrograde	5783 Aug 09 07:33	11° <b>8</b> 46'52
evening set	5777 Apr 12 22:34	2° <b>8</b> 18'57	min. Earth dist.	5783 Oct 28 23:22	10° <b>8</b> 44'52 42.24815 AU
			opposition	5783 Oct 31 17:23	10° <b>8</b> 41'29 -14°52'54
conjunction	5777 Apr 20 19:11	2° <b>8</b> 31'47 -12°54'25	direct	5784 Jan 21 06:28	9° <b>8</b> 37'09
minimum elong	5777 Apr 20 19:00	2° <b>8</b> 31'47 12°54'27	evening set	5784 Apr 24 12:27	11° <b>8</b> 09'24
max. Earth dist.	5777 Apr 23 15:19	2° <b>8</b> 36'27 42.73530 AU	•	r	
morning rise	5777 Apr 28 16:00	2° <b>8</b> 44'40	conjunction	5784 Apr 29 04:38	11° <b>8</b> 16'48 -14°18'05
retrograde	5777 Aug 01 06:55	4° <b>8</b> 18'09	minimum elong	5784 Apr 29 04:31	11° <b>8</b> 16'47 14°18'06
min. Earth dist.	5777 Oct 20 16:56	3°814'56 40.90425 AU	Č	5784 May 01 21:48	11° <b>8</b> 21'05 44.28929 AU
	5777 Oct 20 10:30 5777 Oct 23 12:28	3°811'24 -13°39'10		5784 May 03 20:50	11° <b>8</b> 24'12
opposition			morning rise	•	
direct	5778 Jan 13 02:09	2° <b>8</b> 05'38	retrograde	5784 Aug 09 19:20	12° <b>8</b> 59'40
evening set	5778 Apr 14 20:29	3° <b>8</b> 36'19	min. Earth dist.	5784 Oct 29 12:58	11° <b>8</b> 57'44 42.45884 AU
		4.3	opposition	5784 Nov 01 05:26	11° <b>8</b> 54'26 -15°03'30
conjunction	5778 Apr 22 07:29	3° <b>8</b> 48'27 -13°07'51	direct	5785 Jan 21 17:19	10° <b>8</b> 50'18
minimum elong	5778 Apr 22 07:19	3° <b>8</b> 48'26 13°07'52	evening set	5785 Apr 26 13:21	12° <b>8</b> 22'58
max. Earth dist.	5778 Apr 25 02:52	3° <b>8</b> 53'02 42.96596 AU			
morning rise	5778 Apr 29 18:38	4° <b>8</b> 00'37	conjunction	5785 Apr 30 15:27	12° <b>8</b> 29'25 -14°28'11
retrograde	5778 Aug 02 20:46	5° <b>8</b> 34'16	minimum elong	5785 Apr 30 15:18	12° <b>8</b> 29'24 14°28'12
min. Earth dist.	5778 Oct 22 05:26	4° <b>8</b> 31'20 41.13576 AU	max. Earth dist.	5785 May 03 08:16	12° <b>8</b> 33'40 44.49666 AU
opposition	5778 Oct 25 01:51	4° <b>8</b> 27'46 -13°52'44	morning rise	5785 May 04 17:26	12° <b>8</b> 35'51
direct	5779 Jan 14 13:38	3° <b>8</b> 22'15	retrograde	5785 Aug 11 04:51	14° <b>8</b> 11'46
evening set	5779 Apr 16 18:15	4° <b>8</b> 53'07	min. Earth dist.	5785 Oct 31 00:23	13° <b>8</b> 10'00 42.66602 AU
e vennig see	5777 Tipi 10 10.15	1 033 07	opposition	5785 Nov 02 16:51	13° <b>8</b> 06'43 -15°13'37
conjunction	5779 Apr 23 19:24	5° <b>8</b> 04'32 -13°20'46	direct	5786 Jan 23 04:50	12° <b>8</b> 02'44
·	•				
minimum elong	5779 Apr 23 19:14	5°804'31 13°20'48	evening set	5786 Apr 28 15:42	13° <b>8</b> 35'59
max. Earth dist.	5779 Apr 26 14:58	5° <b>8</b> 09'06 43.19454 AU		550 C \ 1	100 41101 1102
morning rise	5779 Apr 30 20:45	5° <b>8</b> 15'58	conjunction	5786 May 02 01:50	13° <b>8</b> 41'21 -14°37'50
retrograde	5779 Aug 04 10:15	6° <b>8</b> 49'51	minimum elong	5786 May 02 01:43	13° <b>8</b> 41'21 14°37'51
min. Earth dist.	5779 Oct 23 19:36	5° <b>8</b> 47'06 41.36508 AU	morning rise	5786 May 05 11:55	13° <b>8</b> 46'43
opposition	5779 Oct 26 15:10	5° <b>8</b> 43'35 -14°05'47	max. Earth dist.	5786 May 04 17:43	13° <b>8</b> 45'32 44.70084 AU
direct	5780 Jan 16 01:01	4° <b>8</b> 38'20		5786 Jun 28 09:31	15° <b>8</b>
evening set	5780 Apr 17 16:25	6° <b>႘</b> 09'24	retrograde	5786 Aug 12 14:45	15° <b>8</b> 23'13
				5786 Sep 28 00:43	15° <b>₹</b> 8

min. Earth dist.	5786 Nov 01 12:01	14° <b>8</b> 21'34 42.87044 AU	conjunction	5794 May 11 06:24	22° <b>8</b> 57'02 -15°39'14
opposition	5786 Nov 04 04:13	14° <b>8</b> 18'19 -15°23'16	minimum elong	5794 May 11 06:19	22° <b>8</b> 57'02 15°39'15
direct	5787 Jan 24 16:16	13° <b>8</b> 14'31	max. Earth dist.	5794 May 13 19:28	23° <b>8</b> 00'54 46.24311 AU
evening set	5787 Apr 30 20:56	14° <b>8</b> 48'31	retrograde	5794 Aug 21 18:23	24° <b>8</b> 35'36
C	•		min. Earth dist.	5794 Nov 11 03:30	23° <b>8</b> 35'03 44.41001 AU
conjunction	5787 May 03 12:02	14° <b>8</b> 52'38 -14°47'01	opposition	5794 Nov 13 14:40	23° <b>8</b> 32'07 -16°24'10
minimum elong	5787 May 03 11:54	14° <b>8</b> 52'37 14°47'02	direct	5795 Feb 03 06:04	22° <b>8</b> 29'49
morning rise	5787 May 06 02:57	14° <b>8</b> 56'44			
max. Earth dist.	5787 May 06 04:37	14° <b>8</b> 56'50 44.90253 AU	conjunction	5795 May 12 15:16	24° <b>8</b> 04'31 -15°45'07
	5787 May 08 05:20	15° <b>8</b>	minimum elong	5795 May 12 15:13	24° <b>8</b> 04'30 15°45'08
retrograde	5787 Aug 13 22:00	16° <b>8</b> 34'02	max. Earth dist.	5795 May 15 03:04	24° <b>8</b> 08'17 46.41947 AU
min. Earth dist.	5787 Nov 02 23:56	15° <b>8</b> 32'30 43.07237 AU	retrograde	5795 Aug 23 04:35	25° <b>8</b> 42'41
opposition	5787 Nov 05 15:19	15° <b>8</b> 29'17 -15°32'27	min. Earth dist.	5795 Nov 12 12:57	24° <b>8</b> 42'17 44.58476 AU
	5787 Nov 30 15:24	15° <b>₹</b> 8	opposition	5795 Nov 15 00:07	24° <b>8</b> 39'21 -16°29'58
direct	5788 Jan 26 06:13	14° <b>8</b> 25'40	direct	5796 Feb 04 14:02	23° <b>8</b> 37'13
	5788 Mar 20 15:56	15° <b>8</b>			
evening set	5788 May 02 09:56	16° <b>8</b> 00'57	conjunction	5796 May 12 23:58	25° <b>8</b> 11'31 -15°50'39
			minimum elong	5796 May 12 23:54	25° <b>8</b> 11'31 15°50'42
conjunction	5788 May 03 21:59	16° <b>8</b> 03'17 -14°55'46	max. Earth dist.	5796 May 15 10:36	25° <b>8</b> 15'12 46.59083 AU
minimum elong	5788 May 03 21:53	16° <b>8</b> 03'17 14°55'48	retrograde	5796 Aug 23 14:36	26° <b>8</b> 49'18
morning rise	5788 May 05 09:54	16° <b>8</b> 05'37	min. Earth dist.	5796 Nov 12 23:43	25° <b>8</b> 48'58 44.75480 AU
max. Earth dist.	5788 May 06 13:24	16° <b>8</b> 07'24 45.10207 AU	opposition	5796 Nov 15 09:26	25° <b>8</b> 46'07 -16°35'24
retrograde	5788 Aug 14 08:43	17° <b>8</b> 44'15	direct	5797 Feb 04 21:04	24° <b>8</b> 44'07
min. Earth dist.	5788 Nov 03 10:04	16° <b>8</b> 42'55 43.27224 AU	ſ		
opposition	5788 Nov 06 02:07	16° <b>8</b> 39'40 -15°41'09	conjunction	5797 May 14 08:34	26° <b>8</b> 18'02 -15°55'51
direct	5789 Jan 26 17:35	15° <b>8</b> 36'14	minimum elong	5797 May 14 08:32	26° <b>8</b> 18'02 15°55'52
			max. Earth dist.	5797 May 16 19:11	26° <b>8</b> 21'42 46.75776 AU
conjunction	5789 May 05 07:46	17° <b>8</b> 13'24 -15°04'03	retrograde	5797 Aug 24 20:18	27° <b>8</b> 55'26
minimum elong	5789 May 05 07:39	17° <b>8</b> 13'23 15°04'04	min. Earth dist.	5797 Nov 14 09:30	26° <b>8</b> 55'10 44.92042 AU
max. Earth dist.	5789 May 07 23:40	17° <b>8</b> 17'31 45.29945 AU	opposition	5797 Nov 16 18:24	26° <b>8</b> 52'22 -16°40'28
retrograde	5789 Aug 15 21:05	18° <b>8</b> 53'56	direct	5798 Feb 06 08:29	25° <b>8</b> 50'31
min. Earth dist.	5789 Nov 04 22:01	17° <b>8</b> 52'41 43.46983 AU	T		
opposition	5789 Nov 07 12:48	17° <b>8</b> 49'32 -15°49'23	conjunction	5798 May 15 16:48	27° <b>8</b> 24'02 -16°00'40
direct	5790 Jan 28 03:10	16° <b>8</b> 46'17	minimum elong	5798 May 15 16:44	27° <b>8</b> 24'02 16°00'42
			max. Earth dist.	5798 May 18 01:42	27° <b>8</b> 27'35 46.92069 AU
conjunction	5790 May 06 17:26	18° <b>8</b> 23'00 -15°11'54	retrograde	5798 Aug 26 03:11	29° <b>8</b> 01'04
minimum elong	5790 May 06 17:20	18° <b>8</b> 23'00 15°11'56	min. Earth dist.	5798 Nov 15 18:19	28° <b>8</b> 00'56 45.08250 AU
max. Earth dist.	5790 May 09 08:49	18° <b>8</b> 27'04 45.49460 AU	opposition	5798 Nov 18 03:06	27° <b>8</b> 58'08 -16°45'09
retrograde	5790 Aug 17 06:55	20° <b>8</b> 03'06	direct	5799 Feb 07 18:44	26° <b>8</b> 56'25
min. Earth dist.	5790 Nov 06 07:52	19° <b>8</b> 02'03 43.66483 AU			
opposition	5790 Nov 08 22:59	18° <b>8</b> 58'53 -15°57'11	conjunction	5799 May 17 00:57	28° <b>8</b> 29'34 -16°05'08
direct	5791 Jan 29 12:03	17° <b>8</b> 55'51	minimum elong	5799 May 17 00:55	28° <b>8</b> 29'34 16°05'10
			max. Earth dist.	5799 May 19 10:21	28° <b>8</b> 33'08 47.08035 AU
conjunction	5791 May 08 02:47	19° <b>8</b> 32'08 -15°19'20		5799 Aug 03 18:26	0° <b>I</b> I
minimum elong	5791 May 08 02:41	19° <b>8</b> 32'08 15°19'21	retrograde	5799 Aug 27 11:42	0° <b>Ⅱ</b> 06'15
max. Earth dist.	5791 May 10 17:17	19° <b>8</b> 36'08 45.68702 AU		5799 Sep 20 13:15	30°R <b>8</b>
retrograde	5791 Aug 18 16:28	21°811'50	min. Earth dist.	5799 Nov 17 04:25	29° <b>8</b> 06'10 45.24146 AU
min. Earth dist.	5791 Nov 07 18:57	20°810'55 43.85703 AU	* *	5799 Nov 19 11:47	29° <b>8</b> 03'27 -16°49'28
opposition	5791 Nov 10 09:16	20° <b>8</b> 07'48 -16°04'32	direct	5800 Feb 09 05:00	28° <b>8</b> 01'52
direct	5792 Jan 30 21:34	19° <b>8</b> 04'58		5000 N.S. 10 00 10	200 0 24140 1 2000114
	550034 00 10 05	2001 40151 45020121	conjunction	5800 May 18 08:48	29° <b>8</b> 34'40 -16°09'14
conjunction	5792 May 08 12:05	20° <b>8</b> 40'51 -15°26'21	minimum elong	5800 May 18 08:45	29° <b>8</b> 34'40 16°09'15
minimum elong	5792 May 08 11:59	20° <b>8</b> 40'50 15°26'23	max. Earth dist.	5800 May 20 17:13	29° <b>8</b> 38'09 47.23728 AU
max. Earth dist.	5792 May 11 03:04	20° <b>8</b> 44'51 45.87639 AU		5800 Jun 04 15:26	0°П
retrograde	5792 Aug 18 22:57	22° <b>8</b> 20'09	retrograde	5800 Aug 28 21:24	1° <b>I</b> I1'01
min. Earth dist.	5792 Nov 08 06:00	21° <b>8</b> 19'22 44.04564 AU		5800 Nov 18 12:13	0° <b>I</b> 11'05 45.39767 AU
opposition	5792 Nov 10 19:17	21° <b>8</b> 16'18 -16°11'28	opposition	5800 Nov 20 20:09	0° <b>Ⅱ</b> 08'21 -16°53'23
direct	5793 Jan 31 09:51	20° <b>8</b> 13'40	dinc -+	5800 Nov 27 23:18	30°R <b>8</b>
aomine-+:	5702 M 00 21 14	210 40100 15020150	direct	5801 Feb 10 12:05	29° <b>႘</b> 06'55
conjunction	5793 May 09 21:14	21° <b>8</b> 49'09 -15°32'58		5801 Apr 22 04:21	$\Pi^{\circ}0$
minimum elong	5793 May 09 21:10	21°849'08 15°32'59	· .·	5001 M 10 16 21	00H20l22 16012150
max. Earth dist.	5793 May 12 10:27	21° <b>8</b> 53'02 46.06197 AU		5801 May 19 16:34	0° <b>П</b> 39'23 -16°12'58
retrograde	5793 Aug 20 08:37	23° <b>8</b> 28'04	minimum elong	5801 May 19 16:34	0°II39'22 16°13'00
min. Earth dist.	5793 Nov 09 15:43	22° <b>8</b> 27'28 44.23022 AU		5801 May 22 00:23	0° <b>I</b> 42'49 47.39146 AU
opposition	5793 Nov 12 04:57	22° <b>8</b> 24'25 -16°18'00	retrograde	5801 Aug 30 06:23	2° <b>I</b> 15'24
direct	5794 Feb 01 19:29	21° <b>8</b> 21'57	min. Earth dist.	5801 Nov 19 21:44	1° <b>I</b> 15'33 45.55121 AU
			opposition	5801 Nov 22 04:20	1° <b>Ⅱ</b> 12'53 -16°56'56

direct	5802 Feb 11 18:15	0°Щ11′36	minimum elong max. Earth dist.	5810 May 29 09:40 5810 May 31 09:51	10° <b>Д</b> 07'28 16°31'44 10° <b>Д</b> 10'22 48.61466 AU
conjunction	5802 May 21 00:19	1° <b>Ⅱ</b> 43'45 -16°16'20	retrograde	5810 Sep 08 19:18	11° <b>Ⅱ</b> 40'49
minimum elong	5802 May 21 00:18	1° <b>∏</b> 43'45 16°16'21	min. Earth dist.	5810 Nov 30 00:15	10° <b>耳</b> 41'41 46.75887 AU
max. Earth dist.	5802 May 23 08:19	1° <b>耳</b> 47'11 47.54305 AU	opposition	5810 Dec 01 23:36	10° <b>耳</b> 39'25 -17°13'53
retrograde	5802 Aug 31 11:49	3° <b>Ⅱ</b> 19'27	direct	5811 Feb 21 17:32	9° <b>Ⅱ</b> 39'13
min. Earth dist.	5802 Nov 21 06:07	2° <b>Ⅱ</b> 19'43 45.70183 AU			
opposition	5802 Nov 23 12:22	2° <b>Ⅱ</b> 17'05 -17°00'07	conjunction	5811 May 30 16:01	11° <b>I</b> 108'42 -16°32'17
direct	5803 Feb 13 02:14	1° <b>Ⅱ</b> 15'57	minimum elong	5811 May 30 16:03	11° <b>I</b> 108'42 16°32'19
			max. Earth dist.	5811 Jun 01 15:40	11° <b>Ⅱ</b> 11'33 48.72917 AU
conjunction	5803 May 22 07:38	2° <b>∏</b> 47'48 -16°19'21	retrograde	5811 Sep 10 03:21	12° <b>Ⅱ</b> 41'47
minimum elong	5803 May 22 07:37	2° <b>Ⅱ</b> 47'48 16°19'23	min. Earth dist.	5811 Dec 01 08:42	11° <b>Ⅱ</b> 42'39 46.87200 AU
max. Earth dist.	5803 May 24 14:07	2° <b>耳</b> 51′08 47.69168 AU	opposition	5811 Dec 03 06:28	11° <b>Ⅱ</b> 40'27 -17°14'13
retrograde	5803 Sep 01 19:05	4° <b>Ⅱ</b> 23'13	direct	5812 Feb 22 23:45	10° <b>Ⅱ</b> 40′21
min. Earth dist.	5803 Nov 22 14:19	3° <b>Ⅱ</b> 23'37 45.84942 AU			
opposition	5803 Nov 24 20:21	3° <b>Ⅱ</b> 21'00 -17°02'57	conjunction	5812 May 30 22:34	12° <b>Ⅱ</b> 09'34 -16°32'34
direct	5804 Feb 14 10:02	2° <b>Ⅱ</b> 20′02	minimum elong	5812 May 30 22:38	12° <b>Ⅱ</b> 09'34 16°32'36
			max. Earth dist.	5812 Jun 01 22:15	12° <b>Ⅱ</b> 12′24 48.84080 AU
conjunction	5804 May 22 15:07	3° <b>I</b> 51'34 -16°22'01	retrograde	5812 Sep 10 09:32	13° <b>Ⅱ</b> 42′22
minimum elong	5804 May 22 15:07	3° <b>I</b> 51'34 16°22'03	min. Earth dist.	5812 Dec 01 15:16	12° <b>Ⅱ</b> 43′20 46.98221 AU
max. Earth dist.	5804 May 24 21:51	3° <b>I</b> 54'55 47.83702 AU	opposition	5812 Dec 03 12:56	12° <b>Ⅱ</b> 41'09 -17°14'15
retrograde	5804 Sep 02 01:01	5° <b>Ⅱ</b> 26'42	direct	5813 Feb 23 05:08	11° <b>Ⅱ</b> 41′08
min. Earth dist.	5804 Nov 22 23:48	4° <b>Ⅱ</b> 27'11 45.99333 AU			
opposition	5804 Nov 25 04:09	4° <b>Ⅱ</b> 24'39 -17°05'26	conjunction	5813 Jun 01 04:50	13° <b>Ⅱ</b> 10'07 -16°32'31
direct	5805 Feb 14 20:32	3° <b>Ⅱ</b> 23'50	minimum elong	5813 Jun 01 04:52	13° <b>Ⅱ</b> 10'07 16°32'33
		_	max. Earth dist.	5813 Jun 03 02:53	13° <b>Ⅱ</b> 12'51 48.94965 AU
conjunction	5805 May 23 22:29	4° <b>I</b> 55'05 -16°24'22	retrograde	5813 Sep 11 16:05	14° <b>Ⅱ</b> 42'40
minimum elong	5805 May 23 22:29	4° <b>I</b> 55'05 16°24'25	min. Earth dist.	5813 Dec 02 22:15	13° <b>I</b> 43'42 47.08974 AU
max. Earth dist.	5805 May 26 03:47	4° <b>I</b> 58'19 47.97856 AU	opposition	5813 Dec 04 19:26	13° <b>Ⅲ</b> 41'33 -17°13'56
retrograde	5805 Sep 03 10:09	6°Ⅱ29'56	direct	5814 Feb 24 10:14	12° <b>Ⅱ</b> 41'39
min. Earth dist.	5805 Nov 24 07:26	5° <b>П</b> 30'33 46.13303 AU		5014 I 00 11 06	1401110104 16022111
opposition	5805 Nov 26 11:42	5° <b>Ⅱ</b> 28'01 -17°07'35	conjunction	5814 Jun 02 11:06	14° <b>I</b> 10'24 -16°32'11
direct	5806 Feb 16 04:09	4° <b>Ⅱ</b> 27'20	minimum elong	5814 Jun 02 11:10	14° <b>I</b> 10'25 16°32'13
	5000 M 25 05.42	50TE0110 1/02/125	max. Earth dist.	5814 Jun 04 09:32	14° <b>Ⅱ</b> 13'09 49.05576 AU
conjunction	5806 May 25 05:43	5°П58'18 -16°26'25 5°П58'18 16°26'26	retrograde	5814 Sep 12 19:55 5814 Dec 04 05:52	15° <b>I</b> 42'45
minimum elong max. Earth dist.	5806 May 25 05:44	5°П58'18 16°26'26 6°П01'28 48.11545 AU	min. Earth dist.	5814 Dec 04 05:52 5814 Dec 06 01:45	14° <b>I</b> I43'50 47.19431 AU 14° <b>I</b> I41'44 -17°13'20
retrograde	5806 May 27 09:59 5806 Sep 04 21:00	7° <b>I</b> 32'52	opposition direct	5815 Feb 25 18:46	13° <b>I</b> (41'57
min. Earth dist.	5806 Nov 25 16:51	6° <b>Д</b> 33'31 46.26790 AU	unect	3613 100 23 16.40	13 1141 37
opposition	5806 Nov 27 19:14	6° <b>Д</b> 31'05 -17°09'26	conjunction	5815 Jun 03 17:12	15° <b>Ⅱ</b> 10'30 -16°31'32
direct	5807 Feb 17 08:51	5° <b>II</b> 30'32	minimum elong	5815 Jun 03 17:16	15° <b>I</b> 10'30 16°31'33
ancet	3007100 17 00.31	3 1130 32	max. Earth dist.	5815 Jun 05 14:19	15° <b>I</b> 13'10 49.15908 AU
conjunction	5807 May 26 13:01	7° <b>Д</b> 01'12 -16°28'10	retrograde	5815 Sep 14 02:39	16° <b>I</b> I42'38
minimum elong	5807 May 26 13:02	7° <b>Д</b> 01'12 16°28'12	min. Earth dist.	5815 Dec 05 11:52	15° <b>Д</b> 43'52 47.29590 AU
max. Earth dist.	5807 May 28 16:42	7° <b>П</b> 04'20 48.24748 AU	opposition	5815 Dec 07 07:58	15° <b>П</b> 41'46 -17°12'24
retrograde	5807 Sep 06 02:50	8° <b>Ⅱ</b> 35′28	direct	5816 Feb 27 01:47	14° <b>Ⅱ</b> 42'06
min. Earth dist.	5807 Nov 27 00:54	7° <b>I</b> I36'11 46.39758 AU			
opposition	5807 Nov 29 02:36	7° <b>耳</b> 33'48 -17°11'00	conjunction	5816 Jun 03 23:12	16° <b>Ⅱ</b> 10'27 -16°30'35
direct	5808 Feb 18 16:23	6° <b>Ⅱ</b> 33'21	minimum elong	5816 Jun 03 23:16	16° <b>Ⅱ</b> 10'27 16°30'37
			max. Earth dist.	5816 Jun 05 19:42	16° <b>Ⅱ</b> 13'05 49.25906 AU
conjunction	5808 May 26 19:54	8° <b>Д</b> 03'43 -16°29'39	retrograde	5816 Sep 14 12:14	17° <b>Ⅱ</b> 42′24
minimum elong	5808 May 26 19:56	8° <b>I</b> 103'44 16°29'40	min. Earth dist.	5816 Dec 05 20:00	16° <b>耳</b> 43'40 47.39389 AU
max. Earth dist.	5808 May 28 21:35	8° <b>Д</b> 06'43 48.37441 AU	opposition	5816 Dec 07 14:14	16° <b>Ⅱ</b> 41'40 -17°11'12
retrograde	5808 Sep 06 08:11	9° <b>耳</b> 37'41	direct	5817 Feb 27 06:23	15° <b>Ⅱ</b> 42′08
min. Earth dist.	5808 Nov 27 09:03	8° <b>Д</b> 38'27 46.52234 AU			
opposition	5808 Nov 29 09:52	8° <b>Ⅱ</b> 36′06 -17°12′15	conjunction	5817 Jun 05 05:23	17° <b>Ⅱ</b> 10'18 -16°29'22
direct	5809 Feb 18 23:54	7° <b>Ⅱ</b> 35'45	minimum elong	5817 Jun 05 05:27	17° <b>Ⅱ</b> 10'18 16°29'23
			max. Earth dist.	5817 Jun 07 01:21	17° <b>Ⅱ</b> 12'53 49.35526 AU
conjunction	5809 May 28 02:55	9° <b>Ⅱ</b> 05'49 -16°30'49	retrograde	5817 Sep 15 18:44	18° <b>Ⅲ</b> 42'03
minimum elong	5809 May 28 02:55	9° <b>Ⅱ</b> 05'49 16°30'51	min. Earth dist.	5817 Dec 07 02:19	17° <b>Ⅱ</b> 43'26 47.48759 AU
max. Earth dist.	5809 May 30 04:38	9° <b>Ⅱ</b> 08'48 48.49657 AU	opposition	5817 Dec 08 20:06	17° <b>Ⅱ</b> 41'27 -17°09'43
retrograde	5809 Sep 07 12:12	10° <b>Ⅲ</b> 39′28	direct	5818 Feb 28 10:41	16° <b>Ⅱ</b> 42'02
min. Earth dist.	5809 Nov 28 17:43	9° <b>I</b> 40'14 46.64250 AU			
opposition	5809 Nov 30 16:47	9° <b>Ⅲ</b> 37′58 -17°13′14	conjunction	5818 Jun 06 11:23	18° <b>Ⅲ</b> 10'02 -16°27'54
direct	5810 Feb 20 10:10	8° <b>Ⅲ</b> 37'42	minimum elong	5818 Jun 06 11:27	18° <b>Ⅲ</b> 10'03 16°27'56
	501035 20 00 00	1001107100 1000	max. Earth dist.	5818 Jun 08 05:18	18° <b>Ⅱ</b> 12'30 49.44685 AU
conjunction	5810 May 29 09:37	10° <b>I</b> 07'28 -16°31'43	retrograde	5818 Sep 17 00:41	19° <b>Ⅱ</b> 41'36

min. Earth dist.	5818 Dec 08 09:44	18° <b>耳</b> 43'02 47.57650 AU	conjunction	5827 Jun 15 13:45	26° <b>I</b> 57'43 -16°03'22
opposition	5818 Dec 10 02:10	18° <b>Ⅱ</b> 41'07 -17°07'58	minimum elong	5827 Jun 15 13:52	26° <b>Ⅱ</b> 57'44 16°03'24
direct	5819 Mar 01 15:41	17° <b>Ⅱ</b> 41'49	max. Earth dist.	5827 Jun 17 00:05	26° <b>I</b> 59'42 50.06938 AU
			retrograde	5827 Sep 26 01:24	28° <b>Ⅱ</b> 27'39
conjunction	5819 Jun 07 17:20	19° <b>Ⅱ</b> 09'38 -16°26'10	min. Earth dist.	5827 Dec 17 19:04	27° <b>Ⅱ</b> 29'19 48.17695 AU
minimum elong	5819 Jun 07 17:26	19° <b>I</b> 109'38 16°26'12	opposition	5827 Dec 19 03:27	27° <b>I</b> 27'48 -16°40'44
max. Earth dist.	5819 Jun 09 11:06	19° <b>Ⅲ</b> 12'05 49.53335 AU	direct	5828 Mar 09 20:39	26° <b>Ⅱ</b> 29'03
retrograde	5819 Sep 18 03:09	20° <b>I</b> 41'01			
min. Earth dist.	5819 Dec 09 17:24	19° <b>I</b> 42'27 47.65999 AU	J	5828 Jun 15 18:58	27° <b>I</b> 55'21 -15°59'20
opposition	5819 Dec 11 08:12	19° <b>Ⅱ</b> 40'37 -17°05'58	minimum elong	5828 Jun 15 19:06	27° <b>I</b> 55'21 15°59'22
direct	5820 Mar 02 00:35	18° <b>Ⅲ</b> 41'24	max. Earth dist.	5828 Jun 17 03:32	27° <b>I</b> 57'13 50.12121 AU
. ,.	5020 I 07 22 16	200 100002 16024112	retrograde	5828 Sep 26 08:04	29°П25'08 28°П26'49 48.22625 AU
conjunction	5820 Jun 07 23:16	20° <b>I</b> 109'02 -16°24'13	min. Earth dist.	5828 Dec 18 01:27	
minimum elong max. Earth dist.	5820 Jun 07 23:21	20° <b>Ⅲ</b> 09'02 16°24'15 20° <b>Ⅲ</b> 11'22 49.61462 AU	opposition	5828 Dec 19 08:31	28° <b>II</b> 25'22 -16°36'22
	5820 Jun 09 15:00 5820 Sep 18 08:57	20 <b>H</b> 1122 49.61462 AC 21° <b>H</b> 40'13	direct	5829 Mar 10 23:34	27° <b>Ⅲ</b> 26'42
retrograde min. Earth dist.	5820 Sep 18 08.37 5820 Dec 09 23:25	21° <b>Д</b> 4013 20° <b>Д</b> 41'43 47.73828 AU	conjunction	5829 Jun 17 00:22	28° <b>I</b> 52'53 -15°55'04
	5820 Dec 19 23:23 5820 Dec 11 13:54	20° <b>I</b> 39'54 -17°03'44	minimum elong	5829 Jun 17 00:22 5829 Jun 17 00:30	28° II 52'54 15°55'07
opposition direct	5821 Mar 03 07:16	19° <b>II</b> 40'45	max. Earth dist.	5829 Jun 18 08:53	28° II 54'45 50.16908 AU
direct	3821 Widi 03 07.10	19 14043	max. Earth dist.	5829 Aug 11 02:22	0°95
conjunction	5821 Jun 09 05:05	21° <b>Ⅱ</b> 08'11 -16°22'01	retrograde	5829 Aug 11 02:22 5829 Sep 27 10:34	0°\$22'32
minimum elong	5821 Jun 09 05:11	21° <b>I</b> I08'12 16°22'02	retrograde	5829 Nov 14 16:49	30°RⅡ
max. Earth dist.	5821 Jun 10 19:49	21° <b>I</b> 10'27 49.69073 AU	min. Earth dist.	5829 Dec 19 07:59	29° <b>∏</b> 24'14 48.27110 AU
retrograde	5821 Sep 19 16:19	22° <b>I</b> 39'11	opposition	5829 Dec 20 13:33	29°II22'51 -16°31'46
min. Earth dist.	5821 Dec 11 07:17	21° <b>II</b> 40'39 47.81167 AU		5830 Mar 12 05:48	28° <b>I</b> [24'15
opposition	5821 Dec 12 19:40	21° <b>I</b> 38'56 -17°01'15	direct	3030 Mar 12 03.10	20 12113
direct	5822 Mar 04 13:40	20° <b>II</b> 39'50	conjunction	5830 Jun 18 05:35	29° <b>∏</b> 50′21 -15°50′34
			minimum elong	5830 Jun 18 05:43	29° <b>Д</b> 50'21 15°50'35
conjunction	5822 Jun 10 10:46	22° <b>Ⅱ</b> 07'04 -16°19'34	max. Earth dist.	5830 Jun 19 12:05	29° <b>耳</b> 52'06 50.21232 AU
minimum elong	5822 Jun 10 10:51	22° <b>I</b> 107'05 16°19'35		5830 Jun 25 06:24	0° <b>©</b>
max. Earth dist.	5822 Jun 12 01:02	22° <b>Д</b> 09'18 49.76236 AU	retrograde	5830 Sep 28 14:54	1° <b>©</b> 19'53
retrograde	5822 Sep 20 22:51	23° <b>Ⅱ</b> 37'51	opposition	5830 Dec 21 18:29	0°\$20'16 -16°26'57
min. Earth dist.	5822 Dec 12 12:57	22° <b>Ⅱ</b> 39'22 47.88077 AU	min. Earth dist.	5830 Dec 20 13:19	0°521'38 48.31102 AU
opposition	5822 Dec 14 01:05	22° <b>耳</b> 37'40 -16°58'31		5831 Jan 09 05:55	30°R <b>Ⅱ</b>
Ti d	5022 M 05 17 46	21° <b>Ⅱ</b> 38'37	1:4	502134 12 11 25	29° <b>Ⅲ</b> 21'43
direct	5823 Mar 05 17:46	21 11 30 37	direct	5831 Mar 13 11:25	29 <b>H</b> 21 43
direct	5823 Mar 05 17:46	21 113637	direct	5831 Mar 13 11:25 5831 May 13 15:50	0°95
conjunction	5823 Jun 11 16:14	23° <b>I</b> 05'40 -16°16'51	direct		
			conjunction		
conjunction	5823 Jun 11 16:14	23° <b>П</b> 05'40 -16°16'51	conjunction	5831 May 13 15:50	0.2
conjunction minimum elong	5823 Jun 11 16:14 5823 Jun 11 16:21	23°П05'40 -16°16'51 23°П05'41 16°16'53 23°П07'47 49.83008 AU 24°П36'14	conjunction minimum elong max. Earth dist.	5831 May 13 15:50 5831 Jun 19 10:53	0°55 0°5547'42 -15°45'51
conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22	23°II05'40 -16°16'51 23°II05'41 16°16'53 23°II07'47 49.83008 AU 24°II36'14 23°II37'46 47.94637 AU	conjunction minimum elong max. Earth dist. retrograde	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05	0°\$
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25	23° \$\Pi\05'40\] -16°16'51 23° \$\Pi\05'41\] 16°16'53 23° \$\Pi\07'47\] 49.83008 AU 24° \$\Pi\36'14\] 23° \$\Pi\37'46\] 47.94637 AU 23° \$\Pi\36'07\] -16°55'30	conjunction minimum elong max. Earth dist. retrograde opposition	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33	0°\$47'42 -15°45'51 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22	23°II05'40 -16°16'51 23°II05'41 16°16'53 23°II07'47 49.83008 AU 24°II36'14 23°II37'46 47.94637 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist.	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45	0°547'42 -15°45'51 0°547'43 15°45'54 0°549'23 50.25026 AU 2°517'08 1°517'34 -16°21'54 1°518'49 48.34548 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07	conjunction minimum elong max. Earth dist. retrograde opposition	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33	0°547'42 -15°45'51 0°547'43 15°45'54 0°549'23 50.25026 AU 2°517'08 1°517'34 -16°21'54
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45	23° \$\Pi\05'40\] -16°16'51 23° \$\Pi\05'41\] 16°16'53 23° \$\Pi\05'41\] 49.83008 AU 24° \$\Pi\36'14\] 23° \$\Pi\36'07\] -16°55'30 22° \$\Pi\37'07\] 24° \$\Pi\04'00\] -16°13'53	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34	0°547'42 -15°45'51 0°547'43 15°45'54 0°549'23 50.25026 AU 2°517'08 1°517'34 -16°21'54 1°518'49 48.34548 AU 0°519'04
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51	23° \$\Pi\05'40\] -16°16'51 23° \$\Pi\05'41\] 16°16'53 23° \$\Pi\05'41\] 49.83008 AU 24° \$\Pi\36'14\] 23° \$\Pi\36'14\] 23° \$\Pi\36'14\] 23° \$\Pi\36'07\] -16°55'30 22° \$\Pi\37'07\] 24° \$\Pi\04'00\] -16°13'53 24° \$\Pi\04'01\] 16°13'54	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct conjunction	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34 5832 Jun 19 16:10	0°5  0°547'42 -15°45'51  0°547'43 15°45'54  0°549'23 50.25026 AU  2°517'08  1°517'34 -16°21'54  1°518'49 48.34548 AU  0°519'04  1°544'56 -15°40'56
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist.	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong	5831 May 13 15:50 5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34 5832 Jun 19 16:10 5832 Jun 19 16:19	0°\$\text{0}\$ 0°\$\text{47}'42 \ -15°\text{45}'51 0°\$\text{47}'43 \ 15°\text{45}'54 0°\$\text{49}'23 \ 50.25026 AU 2°\$\text{51}'08 1°\$\text{51}'34 \ -16°\text{21}'54 1°\$\text{51}'49 \ 48.34548 AU 0°\$\text{51}'04  1°\$\text{44}'56 \ -15°\text{40}'56 1°\$\text{54}'57 \ 15°\text{40}'57
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist.	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38	0°\$47'42 -15°45'51 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59	0°\$47'42 -15°45'51 0°\$47'42 -15°45'54 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 34'19 -16°52'13	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02	0°\$47'42 -15°45'51 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'53	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02	0°\$47'42 -15°45'51 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20 5825 Jun 13 03:11	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 36'07 -16°55'30 22° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 34'19 -16°52'13 23° II 35'23 25° II 02'06 -16°10'39	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04 1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Mar 05 20:10 5824 Jun 11 21:45 5824 Jun 13 10:27 5824 Jun 13 10:27 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20 5825 Jun 13 03:11 5825 Jun 13 03:18	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 -16°55'30 22° II 37'07  24° II 04'00 -16°13'53 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 34'19 -16°52'13 23° II 35'23  25° II 02'06 -16°10'39 25° II 02'06 16°10'40	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02	0°\$47'42 -15°45'51 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU 2°\$14'44 -16°16'39 1°\$16'15
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist.	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 -16°55'30 22° II 37'07  24° II 04'00 -16°13'53 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:26	0°\$647'42 -15°45'51 0°\$647'43 15°45'54 0°\$649'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU 2°\$14'44 -16°16'39 1°\$16'15  2°\$42'01 -15°35'48 2°\$42'01 15°35'49
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 -16°55'30 22° II 37'07  24° II 04'00 -16°13'53 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist.	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 22 02:02 5833 Dec 23 04:23 5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 21 23:26	0°\$47'42 -15°45'51 0°\$47'43 15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU 2°\$14'44 -16°16'39 1°\$16'15  2°\$42'01 -15°35'48 2°\$42'01 15°35'49 2°\$43'30 50.31005 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07  24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 32'18 25° II 02'06 -16°10'40 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18 25° II 3'54 48.06787 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Oct 01 09:43	0°\$47'42 -15°45'51 0°\$47'42 -15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU 2°\$14'44 -16°16'39 1°\$16'15  2°\$42'01 -15°35'48 2°\$42'01 15°35'49 2°\$43'30 50.31005 AU 4°\$11'11
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07  24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 32'3 25° II 02'06 -16°10'39 25° II 02'06 -16°10'40 25° II 02'06 16°10'40 25° II 02'06 49.95580 AU 26° II 32'18 25° II 3'54 48.06787 AU 25° II 3'54 48.06787 AU 25° II 32'18 -16°48'40	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Oct 01 09:43 5833 Dec 23 08:19	0°\$47'42 -15°45'51 0°\$47'42 -15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU 2°\$14'44 -16°16'39 1°\$16'15  2°\$42'01 -15°35'48 2°\$42'01 15°35'49 2°\$43'30 50.31005 AU 4°\$11'11 3°\$12'51 48.39836 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07  24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 32'18 25° II 02'06 -16°10'40 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18 25° II 3'54 48.06787 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53  5831 Jun 19 11:01  5831 Jun 20 16:11  5831 Sep 29 21:05  5831 Dec 22 23:33  5831 Dec 21 20:45  5832 Mar 13 17:34  5832 Jun 19 16:10  5832 Jun 19 16:19  5832 Jun 20 20:38  5832 Sep 30 02:59  5832 Dec 22 02:02  5832 Dec 22 02:02  5832 Dec 23 04:23  5833 Mar 14 22:02  5833 Jun 20 21:18  5833 Jun 20 21:26  5833 Jun 20 21:26  5833 Oct 01 09:43  5833 Dec 23 08:19  5833 Dec 24 09:06	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07  24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 35'55 48.00861 AU 25° II 32'3 25° II 02'06 -16°10'39 25° II 02'06 -16°10'40 25° II 02'06 16°10'40 25° II 02'06 49.95580 AU 26° II 32'18 25° II 3'54 48.06787 AU 25° II 3'54 48.06787 AU 25° II 32'18 -16°48'40	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Oct 01 09:43 5833 Dec 23 08:19	0°\$47'42 -15°45'51 0°\$47'42 -15°45'54 0°\$49'23 50.25026 AU 2°\$17'08 1°\$17'34 -16°21'54 1°\$18'49 48.34548 AU 0°\$19'04  1°\$44'56 -15°40'56 1°\$44'57 15°40'57 1°\$46'34 50.28285 AU 3°\$14'15 2°\$15'57 48.37442 AU 2°\$14'44 -16°16'39 1°\$16'15  2°\$42'01 -15°35'48 2°\$42'01 15°35'49 2°\$43'30 50.31005 AU 4°\$11'11 3°\$12'51 48.39836 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00 5826 Mar 08 10:45	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 34'19 -16°52'13 23° II 35'23 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18 25° II 32'18 -16°48'40 24° II 33'25	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53  5831 Jun 19 11:01  5831 Jun 20 16:11  5831 Sep 29 21:05  5831 Dec 22 23:33  5831 Dec 21 20:45  5832 Mar 13 17:34  5832 Jun 19 16:10  5832 Jun 19 16:19  5832 Jun 20 20:38  5832 Sep 30 02:59  5832 Dec 22 02:02  5832 Dec 22 02:02  5832 Dec 23 04:23  5833 Mar 14 22:02  5833 Jun 20 21:18  5833 Jun 20 21:26  5833 Jun 20 21:26  5833 Oct 01 09:43  5833 Dec 23 08:19  5833 Dec 24 09:06	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00 5826 Mar 08 10:45	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 24° II 34'19 -16°52'13 23° II 35'23 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18 25° II 32'18 -16°48'40 24° II 33'25 25° II 59'59 -16°07'08	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct	5831 May 13 15:50  5831 Jun 19 10:53  5831 Jun 19 11:01  5831 Jun 20 16:11  5831 Sep 29 21:05  5831 Dec 22 23:33  5831 Dec 21 20:45  5832 Mar 13 17:34  5832 Jun 19 16:10  5832 Jun 19 16:19  5832 Jun 20 20:38  5832 Sep 30 02:59  5832 Dec 22 02:02  5832 Dec 22 02:02  5832 Dec 23 04:23  5833 Mar 14 22:02  5833 Jun 20 21:18  5833 Jun 20 21:18  5833 Jun 20 21:26  5833 Jun 21 23:26  5833 Oct 01 09:43  5833 Dec 23 08:19  5833 Dec 24 09:06  5834 Mar 15 23:55	0°947'42 -15°45'51 0°947'42 -15°45'54 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10 2°913'15
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00 5826 Mar 08 10:45  5826 Jun 14 08:31 5826 Jun 14 08:31	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 25° II 34'23 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18 25° II 32'18 -16°48'40 24° II 33'25 25° II 59'59 -16°07'08 25° II 59'59 16°07'09	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. copposition direct	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Dec 23 08:19 5833 Dec 24 09:06 5834 Mar 15 23:55	0°947'42 -15°45'51 0°947'42 -15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10 2°913'15
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist.	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 16 17:00 5826 Mar 08 10:45  5826 Jun 14 08:31 5826 Jun 14 08:31 5826 Jun 14 08:31 5826 Jun 15 19:06	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 25° II 34'19 -16°52'13 23° II 35'23 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 25° II 04'08 49.95580 AU 26° II 32'18 25° II 32'18 -16°48'40 24° II 33'25 25° II 59'59 -16°07'08 25° II 59'59 16°07'09 26° II 01'59 50.01407 AU	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Dec 23 08:19 5833 Dec 24 09:06 5834 Mar 15 23:55  5834 Jun 22 02:28 5834 Jun 22 02:28	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10 2°913'15  3°938'55 -15°30'26 3°938'55 15°30'28
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde sin. Earth dist. retrograde min. Earth dist. retrograde	5823 Jun 11 16:14 5823 Jun 13 04:42 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00 5826 Mar 08 10:45  5826 Jun 14 08:31 5826 Jun 14 08:31 5826 Jun 15 19:06 5826 Sep 24 18:36	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 -16°55'30 22° II 37'07  24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 25° II 02'06 -16°10'39 25° II 02'06 16°10'40	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde conjunction minimum elong max. Earth dist. retrograde	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:18 5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Dec 23 08:19 5833 Dec 24 09:06 5834 Mar 15 23:55  5834 Jun 22 02:28 5834 Jun 22 02:28 5834 Jun 22 02:37 5834 Jun 23 04:33	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10 2°913'15  3°938'55 -15°30'26 3°938'55 15°30'28 3°940'24 50.33254 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct	5823 Jun 11 16:14 5823 Jun 11 16:21 5823 Jun 13 04:42 5823 Sep 22 05:25 5823 Dec 13 19:22 5823 Dec 15 06:34 5824 Jun 11 21:45 5824 Jun 11 21:51 5824 Jun 13 10:27 5824 Sep 22 08:12 5824 Dec 14 01:55 5824 Dec 15 11:56 5825 Mar 07 03:20  5825 Jun 13 03:11 5825 Jun 13 03:11 5825 Jun 13 03:18 5825 Jun 14 14:26 5825 Sep 23 11:29 5825 Dec 15 06:56 5825 Dec 16 17:00 5826 Mar 08 10:45  5826 Jun 14 08:31 5826 Jun 14 08:38 5826 Jun 15 19:06 5826 Sep 24 18:36 5826 Dec 17 22:19	23° II 05'40 -16°16'51 23° II 05'41 16°16'53 23° II 07'47 49.83008 AU 24° II 36'14 23° II 37'46 47.94637 AU 23° II 37'07 24° II 04'00 -16°13'53 24° II 04'01 16°13'54 24° II 06'08 49.89447 AU 25° II 34'23 24° II 35'55 48.00861 AU 25° II 02'06 -16°10'39 25° II 02'06 16°10'40 26° II 02'06 16°10'40 26° II 02'06 16°10'40 27° II 02'07 16°44'50	conjunction minimum elong max. Earth dist. retrograde opposition min. Earth dist. direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist. retrograde conjunction minimum elong max. Earth dist. retrograde	5831 May 13 15:50  5831 Jun 19 10:53 5831 Jun 19 11:01 5831 Jun 20 16:11 5831 Sep 29 21:05 5831 Dec 22 23:33 5831 Dec 21 20:45 5832 Mar 13 17:34  5832 Jun 19 16:10 5832 Jun 19 16:19 5832 Jun 20 20:38 5832 Sep 30 02:59 5832 Dec 22 02:02 5832 Dec 23 04:23 5833 Mar 14 22:02  5833 Jun 20 21:18 5833 Jun 20 21:18 5833 Jun 20 21:26 5833 Jun 20 21:26 5833 Jun 21 23:26 5833 Jun 21 23:26 5833 Dec 23 08:19 5833 Dec 24 09:06 5834 Mar 15 23:55  5834 Jun 22 02:28 5834 Jun 22 02:28 5834 Jun 22 02:37 5834 Jun 23 04:33 5834 Oct 02 12:45	0°947'42 -15°45'51 0°947'43 15°45'54 0°949'23 50.25026 AU 2°917'08 1°917'34 -16°21'54 1°918'49 48.34548 AU 0°919'04  1°944'56 -15°40'56 1°944'57 15°40'57 1°946'34 50.28285 AU 3°914'15 2°915'57 48.37442 AU 2°914'44 -16°16'39 1°916'15  2°942'01 -15°35'48 2°942'01 15°35'49 2°943'30 50.31005 AU 4°911'11 3°912'51 48.39836 AU 3°911'42 -16°11'10 2°913'15  3°938'55 -15°30'26 3°938'55 15°30'28 3°940'24 50.33254 AU 5°907'57

Transcary Trient	omena or ridio noi	11 3000 tillough 0102 (C	) i ), Astrodictist Ac	J 10-1 CU-2023 14.2.	o, page 16
direct	5835 Mar 17 05:42	3°510'03	retrograde	5842 Oct 10 03:13	12° <b>©</b> 39'08
			min. Earth dist.	5843 Jan 01 08:40	11°5540'47 48.45257 AU
conjunction	5835 Jun 23 07:16	4°\$35'37 -15°24'51	opposition	5843 Jan 02 01:29	11°5540'01 -15°10'57
minimum elong	5835 Jun 23 07:24	4°\$35'38 15°24'53	direct	5843 Mar 24 19:56	10°5541'48
max. Earth dist.	5835 Jun 24 07:46	4°€37'01 50.35103 AU	evening set	5843 Jun 26 23:17	12° <b>©</b> 01'40
retrograde	5835 Oct 03 15:37	6° <b>©</b> 04'34	<b>8</b>		
opposition	5835 Dec 26 18:28	5°\$05'08 -15°59'31	conjunction	5843 Jun 30 22:16	12°507'02 -14°31'31
min. Earth dist.	5835 Dec 25 19:05	5°906'13 48.43355 AU	minimum elong	5843 Jun 30 22:27	12°507'03 14°31'32
direct	5836 Mar 17 11:56	4°€06'42	max. Earth dist.	5843 Jul 01 14:37	12°907'58 50.37965 AU
			morning rise	5843 Jul 04 21:51	12° <b>©</b> 12'26
conjunction	5836 Jun 23 12:14	5°932'11 -15°19'02	retrograde	5843 Oct 11 11:33	13°935'32
minimum elong	5836 Jun 23 12:24	5°\$32'12 15°19'04	opposition	5844 Jan 03 06:02	12°936'26 -15°03'05
max. Earth dist.	5836 Jun 24 11:58	5°\$33'32 50.36592 AU	min. Earth dist.	5844 Jan 02 14:54	12°537'08 48.43871 AU
retrograde	5836 Oct 03 21:13	7° <b>©</b> 01'02	direct	5844 Mar 24 20:47	11°938'14
opposition	5836 Dec 26 23:02	6°501'38 -15°53'20	evening set	5844 Jun 26 16:32	12°957'25
min. Earth dist.	5836 Dec 26 01:24	6° <b>©</b> 02'39 48.44595 AU			
direct	5837 Mar 18 18:19	5°\$03'14	conjunction	5844 Jul 01 03:24	13°\$03'27 -14°23'52
	2027 1144 10 10.17	5 0 0 5 1 1	minimum elong	5844 Jul 01 03:34	13°\$03'27 14°23'54
conjunction	5837 Jun 24 17:12	6°\$28'38 -15°12'57	max. Earth dist.	5844 Jul 01 19:22	13°504'21 50.36424 AU
minimum elong	5837 Jun 24 17:12	6°\$28'39 15°12'59	morning rise	5844 Jul 05 14:49	13°509'30
max. Earth dist.	5837 Jun 25 16:36	6°\$29'58 50.37781 AU	retrograde	5844 Oct 11 15:40	14°931'53
retrograde	5837 Oct 05 04:14	7°957'25	opposition	5845 Jan 03 10:21	13°932'47 -14°55'02
min. Earth dist.	5837 Dec 27 05:44	6°959'04 48.45530 AU	min. Earth dist.	5845 Jan 02 20:45	13°S3247 -14 33 02 13°S33'25 48.41943 AU
opposition	5837 Dec 27 03:44 5837 Dec 28 03:27	6°958'03 -15°46'53	direct	5845 Mar 26 01:02	13 933 23 48.41943 AU 12°934'34
		5°959'40		5845 Jun 27 10:43	12 934 34 13°953'06
direct	5838 Mar 19 21:19	3 93940	evening set	3843 Juli 27 10.43	15 95500
conjunction	5838 Jun 25 21:53	7°\$25'02 -15°06'38	conjunction	5845 Jul 02 08:20	13° <b>©</b> 59'45 -14°16'00
minimum elong	5838 Jun 25 22:03	7°\$25'02 -15°06'40	minimum elong	5845 Jul 02 08:31	13°S59'46 14°16'02
max. Earth dist.	5838 Jun 26 19:37	7°\$25'16 50.38669 AU	max. Earth dist.	5845 Jul 02 08:31 5845 Jul 02 22:17	14°S00'32 50.34371 AU
		8°953'44			
retrograde	5838 Oct 06 10:57		morning rise	5845 Jul 07 06:38	14°506'25
min. Earth dist.	5838 Dec 28 11:25	7°555'22 48.46179 AU	retrograde	5845 Oct 12 18:18	15°528'08
opposition	5838 Dec 29 07:59	7°954'25 -15°40'11	opposition	5846 Jan 04 14:39	14°529'02 -14°46'46
direct	5839 Mar 20 23:11	6° <b>ॐ</b> 56'05	min. Earth dist.	5846 Jan 04 01:33	14°529'38 48.39523 AU
	5020 1 27 02 47	00601100 15000105	direct	5846 Mar 27 06:07	13°930'46
conjunction	5839 Jun 27 02:47	8°521'23 -15°00'05	evening set	5846 Jun 28 05:19	14° <b>©</b> 48'43
minimum elong	5839 Jun 27 02:57	8°521'24 15°00'06		5046 I I 02 12 06	140055155 14007156
max. Earth dist.	5839 Jun 28 00:42	8°522'38 50.39272 AU	conjunction	5846 Jul 03 13:06	14°955'55 -14°07'56
retrograde	5839 Oct 07 12:57	9°\$50'02	minimum elong	5846 Jul 03 13:16	14°955'56 14°07'57
opposition	5839 Dec 30 12:24	8°950'46 -15°33'13	max. Earth dist.	5846 Jul 04 01:54	14°556'39 50.31835 AU
min. Earth dist.	5839 Dec 29 16:47	8°951'41 48.46519 AU	morning rise	5846 Jul 08 21:35	15°503'10
direct	5840 Mar 21 04:13	7°\$52'28	retrograde	5846 Oct 13 21:22	16°524'16
evening set	5840 Jun 25 09:19	9° <b>©</b> 15'08	opposition	5847 Jan 05 19:01	15°525'08 -14°38'16
			min. Earth dist.	5847 Jan 05 07:54	15°525'39 48.36658 AU
conjunction	5840 Jun 27 07:33	9°517'45 -14°53'16	direct	5847 Mar 28 13:35	14°9526'51
minimum elong	5840 Jun 27 07:43	9°517'46 14°53'19	evening set	5847 Jun 29 00:44	15° <b>©</b> 44'15
max. Earth dist.	5840 Jun 28 03:53	9°518'55 50.39568 AU			
morning rise	5840 Jun 29 06:12	9° <b>5</b> 20'24	conjunction	5847 Jul 04 18:00	15°951'58 -13°59'38
retrograde	5840 Oct 07 16:03	10°546'21	minimum elong	5847 Jul 04 18:11	15°951'59 13°59'40
opposition	5840 Dec 30 16:46	9°547'08 -15°26'01	max. Earth dist.	5847 Jul 05 06:26	15°S52'40 50.28905 AU
min. Earth dist.	5840 Dec 29 21:25	9°548'02 48.46527 AU	morning rise	5847 Jul 10 11:58	15°959'46
direct	5841 Mar 22 09:35	8°9548'53	retrograde	5847 Oct 15 03:01	17° <b>©</b> 20'17
evening set	5841 Jun 25 18:14	10°9510'24	opposition	5848 Jan 06 23:11	16°521'07 -14°29'33
			min. Earth dist.	5848 Jan 06 12:06	16°521'38 48.33416 AU
conjunction	5841 Jun 28 12:29	10° <b>©</b> 14'09 -14°46'14	direct	5848 Mar 28 18:12	15° <b>©</b> 22'48
minimum elong	5841 Jun 28 12:39	10°514'10 14°46'15	evening set	5848 Jun 28 20:26	16°939'41
max. Earth dist.	5841 Jun 29 07:52	10°915'15 50.39484 AU			
morning rise	5841 Jul 01 07:12	10° <b>©</b> 17'56	conjunction	5848 Jul 04 22:44	16°9647'55 -13°51'07
retrograde	5841 Oct 08 21:21	11°9542'44	minimum elong	5848 Jul 04 22:54	16°9547'55 13°51'08
opposition	5841 Dec 31 21:08	10°5643'34 -15°18'36	max. Earth dist.	5848 Jul 05 09:15	16°5548'30 50.25617 AU
min. Earth dist.	5841 Dec 31 03:57	10°9544'22 48.46127 AU	morning rise	5848 Jul 11 01:51	16°956'12
direct	5842 Mar 23 15:28	9° <b>5</b> 45'20	retrograde	5848 Oct 15 10:14	18° <b>©</b> 16'12
evening set	5842 Jun 26 07:46	11° <b>©</b> 05'58	opposition	5849 Jan 07 03:28	17°\$17'02 -14°20'36
			min. Earth dist.	5849 Jan 06 17:46	17° <b>©</b> 17'29 48.29847 AU
conjunction	5842 Jun 29 17:29	11°510'35 -14°38'59	direct	5849 Mar 29 19:56	16°9518'41
minimum elong	5842 Jun 29 17:39	11° <b>©</b> 10'36 14°39'01	evening set	5849 Jun 29 16:39	17° <b>9</b> 35'04
max. Earth dist.	5842 Jun 30 12:10	11°5511'39 50.38976 AU			
morning rise	5842 Jul 03 03:41	11° <b>©</b> 15'14	conjunction	5849 Jul 06 03:39	17°5643'48 -13°42'22

minimum elong	5849 Jul 06 03:51	17° <b>©</b> 43'48 13°42'23	evening set	5856 Jul 03 22:19	24°905'39
max. Earth dist.	5849 Jul 06 14:15	17°544'24 50.22013 AU	evening set	3030 Jul 03 22.17	24 303 37
morning rise	5849 Jul 12 15:29	17°952'34	conjunction	5856 Jul 12 14:27	24°\$17'23 -12°34'40
retrograde	5849 Oct 16 13:25	19° <b>©</b> 12'03	minimum elong	5856 Jul 12 14:39	24°\$17'23 12°34'42
opposition	5850 Jan 08 07:35	18° <b>©</b> 12'53 -14°11'23	max. Earth dist.	5856 Jul 12 16:31	24°517'30 49.87239 AU
min. Earth dist.	5850 Jan 07 22:43	18°513'18 48.25963 AU	morning rise	5856 Jul 21 07:48	24°929'11
direct	5850 Mar 31 00:29	17° <b>©</b> 14'31	retrograde	5856 Oct 22 23:29	25°546'00
evening set	5850 Jun 30 13:11	18°930'28	opposition	5857 Jan 14 13:50	24°5946'52 -13°00'24
			min. Earth dist.	5857 Jan 14 12:56	24°5546'55 47.88784 AU
conjunction	5850 Jul 07 08:26	18°539'40 -13°33'22	direct	5857 Apr 06 06:52	23°5548'26
minimum elong	5850 Jul 07 08:36	18°539'40 13°33'24	evening set	5857 Jul 04 20:50	25°902'01
max. Earth dist.	5850 Jul 07 17:33	18°540'11 50.18127 AU			
morning rise	5850 Jul 14 04:35	18° <b>5</b> 48'54	conjunction	5857 Jul 13 19:44	25°514'07 -12°24'10
retrograde	5850 Oct 17 16:41	20° <b>©</b> 07'56	minimum elong	5857 Jul 13 19:55	25°514'08 12°24'11
opposition	5851 Jan 09 11:49	19° <b>5</b> 08'45 -14°01'57	max. Earth dist.	5857 Jul 13 21:00	25°5514'12 49.80386 AU
min. Earth dist.	5851 Jan 09 03:03	19°509'10 48.21805 AU	morning rise	5857 Jul 22 19:44	25° <b>©</b> 26'19
direct	5851 Apr 01 05:01	18° <b>©</b> 10'23	retrograde	5857 Oct 24 05:18	26°9542'48
evening set	5851 Jul 01 09:46	19° <b>©</b> 25'56	opposition	5858 Jan 15 18:04	25°543'38 -12°49'25
			min. Earth dist.	5858 Jan 15 17:37	25°5643'40 47.81529 AU
conjunction	5851 Jul 08 13:09	19° <b>©</b> 35'35 -13°24'09	direct	5858 Apr 07 12:01	24°95'08
minimum elong	5851 Jul 08 13:20	19° <b>©</b> 35'35 13°24'11	evening set	5858 Jul 05 19:29	25° <b>9</b> 58'25
max. Earth dist.	5851 Jul 08 21:33	19° <b>©</b> 36'03 50.13947 AU			
morning rise	5851 Jul 15 17:31	19° <b>©</b> 45'17	conjunction	5858 Jul 15 00:52	26°S10'54 -12°13'27
retrograde	5851 Oct 18 21:21	21°903'53	minimum elong	5858 Jul 15 01:04	26°5010'55 12°13'28
opposition	5852 Jan 10 16:13	20°504'43 -13°52'15	max. Earth dist.	5858 Jul 14 23:50	26°5010'51 49.73037 AU
min. Earth dist.	5852 Jan 10 09:15	20°505'03 48.17344 AU	morning rise	5858 Jul 24 07:38	26°\$23'29
direct	5852 Apr 01 10:32	19°506'21	retrograde	5858 Oct 25 13:53	27°539'38
evening set	5852 Jul 01 06:58	20° <b>©</b> 21'32	opposition	5859 Jan 16 22:32	26°\$40'26 -12°38'12
. ,.	5052 1 1 00 10 00	200621126 12014141	min. Earth dist.	5859 Jan 16 23:46	26°S40'22 47.73820 AU
conjunction	5852 Jul 08 18:08	20°531'36 -13°14'41	direct	5859 Apr 08 12:54	25°541'52
minimum elong max. Earth dist.	5852 Jul 08 18:19 5852 Jul 09 02:08	20°S31'37 13°14'42 20°S32'03 50.09467 AU	evening set	5859 Jul 06 18:06	26°\$54'51
morning rise	5852 Jul 16 06:14	20°952'03 30.09407 AU 20°9541'45	agniumation	5859 Jul 16 06:03	27° <b>5</b> 07'43 -12°02'31
retrograde	5852 Oct 19 02:45	20°959'58	conjunction minimum elong	5859 Jul 16 06:14	27°507'43 -12°02'33
opposition	5853 Jan 10 20:18	21°S00'50 -13°42'19	max. Earth dist.	5859 Jul 16 04:52	27°S07'39 49.65256 AU
min. Earth dist.	5853 Jan 10 20:18	21°S01'09 48.12549 AU	morning rise	5859 Jul 25 19:12	27°\$20'39
direct	5853 Apr 02 14:49	20°902'27	retrograde	5859 Oct 26 18:18	28° <b>©</b> 36'29
evening set	5853 Jul 02 04:23	21°917'17	opposition	5860 Jan 18 02:58	27°\$37'14 -12°26'45
e venning see	3033 341 02 01.23	21 31/1/	min. Earth dist.	5860 Jan 18 05:09	27°\$37'08 47.65697 AU
conjunction	5853 Jul 09 23:04	21°\$27'48 -13°05'00	direct	5860 Apr 08 17:37	26°\$38'36
minimum elong	5853 Jul 09 23:15	21°\$27'48 13°05'02	evening set	5860 Jul 06 17:11	27° <b>9</b> 51'19
max. Earth dist.	5853 Jul 10 04:59	21°528'08 50.04619 AU	Č		
morning rise	5853 Jul 17 18:53	21°538'22	conjunction	5860 Jul 16 11:18	28°504'32 -11°51'22
retrograde	5853 Oct 20 11:13	22°956'13	minimum elong	5860 Jul 16 11:30	28°504'33 11°51'24
opposition	5854 Jan 12 00:40	21°557'06 -13°32'09	max. Earth dist.	5860 Jul 16 08:31	28°504'22 49.57102 AU
min. Earth dist.	5854 Jan 11 19:27	21°557'21 48.07364 AU	morning rise	5860 Jul 26 06:48	28°917'50
direct	5854 Apr 03 15:45	20°958'44	retrograde	5860 Oct 26 21:27	29°533'22
evening set	5854 Jul 03 01:59	22°513'14	opposition	5861 Jan 18 07:14	28°934'03 -12°15'05
			min. Earth dist.	5861 Jan 18 09:52	28°533'56 47.57230 AU
conjunction	5854 Jul 11 04:06	22°524'10 -12°55'06	direct	5861 Apr 09 22:23	27° <b>9</b> 35'20
minimum elong	5854 Jul 11 04:17	22°524'11 12°55'06	evening set	5861 Jul 07 16:16	28°547'49
max. Earth dist.	5854 Jul 11 09:50	22°524'30 49.99337 AU			
morning rise	5854 Jul 19 07:13	22°535'10	conjunction	5861 Jul 17 16:36	29° <b>©</b> 01'23 -11°39'59
retrograde	5854 Oct 21 16:00	23° <b>©</b> 52'39	minimum elong	5861 Jul 17 16:47	29°501'24 11°40'00
opposition	5855 Jan 13 05:01	22°553'33 -13°21'47	max. Earth dist.	5861 Jul 17 12:48	29°501'10 49.48603 AU
min. Earth dist.	5855 Jan 13 01:07	22°553'44 48.01698 AU	morning rise	5861 Jul 27 18:21	29°515'02
direct	5855 Apr 04 19:17	21° <b>9</b> 55'11		5861 Sep 02 15:54	$0^{\circ}\Omega$
evening set	5855 Jul 04 00:05	23° <b>©</b> 09'22	retrograde	5861 Oct 28 00:42	0° <b>Ω</b> 30'19
	#0## X - 15 - 1	222		5861 Dec 23 11:20	30°RS
conjunction	5855 Jul 12 09:12	23°520'43 -12°44'59	opposition	5862 Jan 19 11:47	29°530'56 -12°03'09
minimum elong	5855 Jul 12 09:23	23°520'43 12°45'01	min. Earth dist.	5862 Jan 19 16:11	29°530'44 47.48440 AU
max. Earth dist.	5855 Jul 12 12:48	23°520'55 49.93562 AU	direct	5862 Apr 11 04:51	28°532'09
morning rise	5855 Jul 20 19:28	23°S32'06	evening set	5862 Jul 08 15:27	29°5544'24
retrograde	5855 Oct 22 20:21	24°5549'16		50/0 I 1 10 01 10	20065000 1102002
opposition	5856 Jan 14 09:19	23°S50'10 -13°11'12	conjunction	5862 Jul 18 21:49	29°558'19 -11°28'22
min. Earth dist.	5856 Jan 14 06:11	23°950'19 47.95519 AU	minimum elong	5862 Jul 18 22:01	29°558'19 11°28'24
direct	5856 Apr 04 23:09	22°951'46	max. Earth dist.	5862 Jul 18 17:45	29°558'05 49.39812 AU

	5862 Jul 20 03:33	0° <b>N</b>	direct	5869 Apr 17 10:45	5° <b>Ω</b> 14'12
		0° <b>Ω</b> 12'19		=	6° <b>Ω</b> 25'17
morning rise	5862 Jul 29 05:29		evening set	5869 Jul 13 16:25	6-862517
retrograde	5862 Oct 29 05:22	1° <b>Ω</b> 27'20		50(0 I I 25 12 20	(0.041)22 10000)20
opposition	5863 Jan 20 16:15	0° <b>Ω</b> 27'54 -11°50'59	conjunction	5869 Jul 25 13:39	6°Ω41'32 -10°00'38
min. Earth dist.	5863 Jan 20 20:24	0° <b>Ω</b> 27'43 47.39356 AU	minimum elong	5869 Jul 25 13:51	6° <b>Ω</b> 41'33 10°00'39
	5863 Feb 15 10:08	30° <b>₹</b> 5	max. Earth dist.	5869 Jul 25 00:53	6°Ω40'48 48.68034 AU
direct	5863 Apr 12 10:40	29°\$29'03	morning rise	5869 Aug 06 12:20	6° <b>Ω</b> 57'54
	5863 Jun 06 03:54	$0^{\circ}\Omega$	retrograde	5869 Nov 05 01:22	8° <b>Ω</b> 11'33
evening set	5863 Jul 09 14:56	0° <b>Ω</b> 41'04	opposition	5870 Jan 27 01:35	7° <b>Ω</b> 11'44 -10°19'12
			min. Earth dist.	5870 Jan 27 14:24	7° <b>Ω</b> 11'08 46.65053 AU
conjunction	5863 Jul 20 03:06	0° <b>£</b> 55′20 -11°16′31	direct	5870 Apr 18 15:44	6° <b>Ω</b> 12′20
minimum elong	5863 Jul 20 03:17	0° <b>Ω</b> 55'21 11°16'32	evening set	5870 Jul 14 17:18	7° <b>Ω</b> 23'17
max. Earth dist.	5863 Jul 19 21:10	0° <b>Ω</b> 55'00 49.30729 AU			
morning rise	5863 Jul 30 16:52	1° <b>Ω</b> 09'42	conjunction	5870 Jul 26 19:28	7° <b>Ω</b> 39'51 -9°47'14
retrograde	5863 Oct 30 13:48	2° <b>Ω</b> 24'29	minimum elong	5870 Jul 26 19:38	7° <b>Ω</b> 39'52 9°47'15
opposition	5864 Jan 21 20:50	1° <b>Ω</b> 25'01 -11°38'34	max. Earth dist.	5870 Jul 26 04:52	7° <b>Ω</b> 39'01 48.55895 AU
min. Earth dist.	5864 Jan 22 02:28	1° <b>Ω</b> 24'45 47.29987 AU	morning rise	5870 Aug 07 23:17	7° <b>Ω</b> 56'31
direct	5864 Apr 12 12:54	0° <b>Ω</b> 26'06	retrograde	5870 Nov 06 06:49	9° <b>Ω</b> 10'01
evening set	5864 Jul 09 14:31	1° <b>Ω</b> 37'55	opposition	5871 Jan 28 06:35	8°Ω10'06 -10°05'11
evening sec	0001041 07 11.51	1 0007 00	min. Earth dist.	5871 Jan 28 20:08	8° <b>Ω</b> 09'28 46.52554 AU
conjunction	5864 Jul 20 08:39	1° <b>Ω</b> 52'32 -11°04'25	direct	5871 Apr 19 20:21	7° <b>Ω</b> 10'35
minimum elong	5864 Jul 20 08:50	1°Ω52'33 11°04'27	evening set	5871 Jul 15 18:23	8° <b>Ω</b> 21'26
max. Earth dist.	5864 Jul 20 02:46	1°Ω52'12 49.21345 AU	max. Earth dist.	5871 Jul 27 09:46	8° <b>Ω</b> 37'24 48.43328 AU
	5864 Jul 31 04:08	2°Ω07'14	max. Earm dist.	38/1 Jul 2/ 09.40	8 863/24 48.43328 AU
morning rise				5071 1 1 20 01 22	00.030110 0023136
retrograde	5864 Oct 30 20:19	3° <b>Ω</b> 21'48	conjunction	5871 Jul 28 01:33	8° <b>Ω</b> 38'18 -9°33'36
opposition	5865 Jan 22 01:28	2°Ω22'17 -11°25'55	minimum elong	5871 Jul 28 01:45	8°Ω38'19 9°33'37
min. Earth dist.	5865 Jan 22 08:01	2° <b>Ω</b> 21'59 47.20285 AU	morning rise	5871 Aug 09 10:23	8° <b>Ω</b> 55'17
direct	5865 Apr 13 15:55	1° <b>Ω</b> 23'18	retrograde	5871 Nov 07 10:45	10° <b>Ω</b> 08'39
evening set	5865 Jul 10 14:31	2° <b>Ω</b> 34'58	opposition	5872 Jan 29 11:38	9° <b>Ω</b> 08'38 -9°50'55
			min. Earth dist.	5872 Jan 30 03:03	9° <b>Ω</b> 07'54 46.39665 AU
conjunction	5865 Jul 21 14:09	2° <b>Ω</b> 49'55 -10°52'06	direct	5872 Apr 20 03:23	8° <b>Ω</b> 08'59
minimum elong	5865 Jul 21 14:20	2° <b>Ω</b> 49'56 10°52'06	evening set	5872 Jul 15 19:41	9° <b>Ω</b> 19'44
max. Earth dist.	5865 Jul 21 06:29	2° <b>Ω</b> 49'29 49.11616 AU			
morning rise	5865 Aug 01 15:21	3° <b>Ω</b> 04'58	conjunction	5872 Jul 28 07:45	9° <b>Ω</b> 36'55 -9°19'44
retrograde	5865 Nov 01 02:44	4° <b>Ω</b> 19'19	minimum elong	5872 Jul 28 07:55	9° <b>Ω</b> 36'56 9°19'45
opposition	5866 Jan 23 06:01	3° <b>Ω</b> 19'46 -11°13'01	max. Earth dist.	5872 Jul 27 15:29	9° <b>Ω</b> 35'59 48.30413 AU
min. Earth dist.	5866 Jan 23 13:10	3° <b>Ω</b> 19'26 47.10214 AU	morning rise	5872 Aug 09 21:19	9° <b>Ω</b> 54'12
direct	5866 Apr 14 18:56	2° <b>Ω</b> 20'44	retrograde	5872 Nov 07 15:43	11° <b>Ω</b> 07'28
evening set	5866 Jul 11 14:36	3° <b>Ω</b> 32'14	opposition	5873 Jan 29 16:40	10° <b>Ω</b> 07'20 -9°36'25
Č			min. Earth dist.	5873 Jan 30 07:58	10° <b>Ω</b> 06'36 46.26443 AU
conjunction	5866 Jul 22 19:51	3° <b>Ω</b> 47'31 -10°39'33	direct	5873 Apr 21 09:56	9° <b>Ω</b> 07'34
minimum elong	5866 Jul 22 20:02	3° <b>Ω</b> 47'32 10°39'35	evening set	5873 Jul 16 21:13	10° <b>Ω</b> 18'14
max. Earth dist.	5866 Jul 22 10:55	3°Ω47'01 49.01466 AU	evening sec	2073 841 10 21.13	10 001011
morning rise	5866 Aug 03 02:39	4° <b>Ω</b> 02'54	conjunction	5873 Jul 29 13:53	10° <b>Ω</b> 35'44 -9°05'38
retrograde	5866 Nov 02 05:53	5° <b>Ω</b> 17'05	minimum elong	5873 Jul 29 14:03	10° <b>Ω</b> 35'44 9°05'39
opposition	5867 Jan 24 10:53	4°Ω17'29 -10°59'54	max. Earth dist.	5873 Jul 28 19:43	10°Ω34'41 48.17176 AU
min. Earth dist.	5867 Jan 24 20:11	4°Ω17'02 46.99693 AU	morning rise	5873 Aug 11 08:20	10° <b>Ω</b> 53'20
direct	5867 Apr 16 02:00	3°Ω18'23	retrograde	5873 Nov 09 00:06	12° <b>Ω</b> 06'29
evening set	5867 Jul 12 14:56	4° <b>Ω</b> 29'44	opposition	5874 Jan 30 21:52	11° <b>Ω</b> 06'16 -9°21'39
evening set	3607 Jul 12 14.30	4 0629 44			
	50/7 1 1 24 01 20	40 0 45120 10026147	min. Earth dist.	5874 Jan 31 14:45	11° <b>Ω</b> 05'27 46.12936 AU
conjunction	5867 Jul 24 01:38	4° <b>Ω</b> 45'20 -10°26'47	direct	5874 Apr 22 13:14	10° <b>Ω</b> 06'23
minimum elong	5867 Jul 24 01:50	4°Ω45'21 10°26'48	evening set	5874 Jul 17 22:49	11° <b>Ω</b> 17'00
max. Earth dist.	5867 Jul 23 15:58	4°Ω44'47 48.90849 AU			
morning rise	5867 Aug 04 13:46	5° <b>Ω</b> 01'03	conjunction	5874 Jul 30 20:15	11° <b>Ω</b> 34'47 -8°51'17
retrograde	5867 Nov 03 10:39	6° <b>Ω</b> 15'04	minimum elong	5874 Jul 30 20:25	11° <b>Ω</b> 34'48 8°51'18
opposition	5868 Jan 25 15:43	5°Ω15'24 -10°46'33	max. Earth dist.	5874 Jul 30 02:13	11° <b>Ω</b> 33'45 48.03672 AU
min. Earth dist.	5868 Jan 26 01:26	5° <b>Ω</b> 14'56 46.88665 AU	morning rise	5874 Aug 12 19:10	11° <b>Ω</b> 52'41
direct	5868 Apr 16 08:28	4° <b>Ω</b> 16'12	retrograde	5874 Nov 10 07:51	13° <b>Ω</b> 05'45
evening set	5868 Jul 12 15:40	5° <b>Ω</b> 27'25	opposition	5875 Feb 01 03:10	12° <b>Ω</b> 05'27 -9°06'37
			min. Earth dist.	5875 Feb 01 20:32	12° <b>Ω</b> 04'37 45.99166 AU
conjunction	5868 Jul 24 07:34	5° <b>Ω</b> 43'21 -10°13'49	direct	5875 Apr 23 16:37	11° <b>Ω</b> 05′27
minimum elong	5868 Jul 24 07:44	5° <b>Ω</b> 43'22 10°13'51	evening set	5875 Jul 19 00:42	12° <b>Ω</b> 16′02
max. Earth dist.	5868 Jul 23 19:15	5° <b>Ω</b> 42'39 48.79701 AU	max. Earth dist.	5875 Jul 31 06:58	12° <b>Q</b> 33'00 47.89926 AU
morning rise	5868 Aug 05 01:11	5° <b>Ω</b> 59'24			
retrograde	5868 Nov 03 19:31	7° <b>Ω</b> 13'14	conjunction	5875 Aug 01 02:31	12° <b>Ω</b> 34'08 -8°36'41
opposition	5869 Jan 25 20:37	6° <b>Ω</b> 13'30 -10°32'59	minimum elong	5875 Aug 01 02:42	12° <b>Ω</b> 34'09 8°36'43
min. Earth dist.	5869 Jan 26 08:23	6° <b>Ω</b> 12'56 46.77115 AU	morning rise	5875 Aug 14 06:06	12° <b>Ω</b> 52′20
		_	Ç		

	5075 Nam 11 16-20	14°Ω05'20	i Danda dia	5000 E-L 00 21-22	19°Ω08'44 44.93291 AU
retrograde opposition	5875 Nov 11 16:28 5876 Feb 02 08:35	13° <b>Ω</b> 04'57 -8°51'20	min. Earth dist. direct	5882 Feb 08 21:23	19 <b>δ (</b> 08 44 44.93291 AU 18° <b>Ω</b> 09'06
min. Earth dist.	5876 Feb 02 08:33 5876 Feb 03 02:20	13° <b>Ω</b> 04'06 45.85155 AU		5882 Apr 30 07:21 5882 Jul 24 21:52	19°Ω19'53
direct	5876 Apr 23 19:44	13° <b>Ω</b> 04'00 43.83133 AO	max. Earth dist.	5882 Jul 24 21.32 5882 Aug 07 00:14	19° <b>Ω</b> 38'20 46.83538 AU
	5876 Jul 19 02:52	12 <b>δ</b> 04 31 13° <b>Ω</b> 15'26	iliax. Eartii uist.	3002 Aug 07 00.14	19 <b>6(</b> 36 20 40.63336 AU
evening set	38/0 Jul 19 02.32	13 8613 20	agniumation	5002 Aug 00 04:00	19° <b>Ω</b> 39'59 -6°47'46
agniumation	5076 Aug 01 00:10	13°Ω33'49 -8°21'50	conjunction minimum elong	5882 Aug 08 04:08	19° <b>Ω</b> 39'59 6°47'47
conjunction	5876 Aug 01 09:10	$13^{\circ} \Omega 33'50  8^{\circ} 21'51$	morning rise	5882 Aug 08 04:17	19 <b>δι</b> 39 39 6 4/4/ 20° <b>Ω</b> 00'11
minimum elong max. Earth dist.	5876 Aug 01 09:20 5876 Jul 31 12:43	13°Ω32'38 47.75907 AU	-	5882 Aug 22 11:54 5882 Nov 18 14:44	20° <b>Ω</b> 13'09
			0		
morning rise	5876 Aug 14 17:08	13° <b>Ω</b> 52'19	opposition	5883 Feb 09 02:00	20°Ω11'58 -6°57'17
	5876 Oct 20 14:52	15° <b>Ω</b>	min. Earth dist.	5883 Feb 10 03:44	20°Ω10'43 44.76397 AU
retrograde	5876 Nov 11 20:30	15° <b>Ω</b> 05'17	direct	5883 May 01 15:38	19° <b>Ω</b> 10'54
	5876 Dec 04 03:55	15°R€	evening set	5883 Jul 26 01:56	20° <b>Ω</b> 21'44
opposition	5877 Feb 02 14:05	14°Ω04'49 -8°35'47	max. Earth dist.	5883 Aug 08 05:38	20° <b>Ω</b> 40'19 46.66565 AU
min. Earth dist.	5877 Feb 03 09:34	14° <b>Ω</b> 03'53 45.70860 AU			
direct	5877 Apr 25 02:51	13° <b>Ω</b> 04'37	conjunction	5883 Aug 09 11:40	20°Ω42'06 -6°31'16
evening set	5877 Jul 20 05:20	14° <b>Ω</b> 15'13	minimum elong	5883 Aug 09 11:48	20° <b>Ω</b> 42'06 6°31'17
		•	morning rise	5883 Aug 23 23:08	21° <b>\O</b> 02'34
conjunction	5877 Aug 02 15:58	14° <b>Ω</b> 33'54 -8°06'45	retrograde	5883 Nov 19 22:38	22° <b>Ω</b> 15'34
minimum elong	5877 Aug 02 16:08	14° <b>Ω</b> 33'54 8°06'47	opposition	5884 Feb 10 08:31	21°Ω14'13 -6°39'59
max. Earth dist.	5877 Aug 01 19:04	14° <b>Ω</b> 32'40 47.61600 AU	min. Earth dist.	5884 Feb 11 12:13	21° $\Omega$ 12'52 44.59126 AU
morning rise	5877 Aug 16 04:07	14° <b>Ω</b> 52'41	direct	5884 May 01 21:45	20° <b>Ω</b> 12'57
	5877 Aug 21 13:20	15° <b>Ω</b>	evening set	5884 Jul 26 06:15	21° <b>Ω</b> 23'52
retrograde	5877 Nov 13 01:04	16° <b>Ω</b> 05'39			
opposition	5878 Feb 03 19:40	15° <b>Ω</b> 05'06 -8°19'59	conjunction	5884 Aug 09 19:36	21° <b>Ω</b> 44'29 -6°14'31
min. Earth dist.	5878 Feb 04 15:17	15° <b>Ω</b> 04'09 45.56241 AU	minimum elong	5884 Aug 09 19:44	21° <b>Ω</b> 44'30 6°14'32
	5878 Feb 08 05:10	15°R <b></b>	max. Earth dist.	5884 Aug 08 13:28	21° <b>Ω</b> 42'42 46.49236 AU
direct	5878 Apr 26 10:48	14° <b>Ω</b> 04'47	morning rise	5884 Aug 24 10:19	22° <b>Ω</b> 05′13
	5878 Jul 09 19:49	15° <b>Ω</b>	retrograde	5884 Nov 20 06:49	23° <b>Ω</b> 18'16
evening set	5878 Jul 21 08:01	15° <b>Ω</b> 15′24	opposition	5885 Feb 10 14:56	22° <b>Ω</b> 16'46 -6°22'26
			min. Earth dist.	5885 Feb 11 19:09	22° <b>Ω</b> 15'22 44.41521 AU
conjunction	5878 Aug 03 22:40	15° <b>Ω</b> 34'23 -7°51'25	direct	5885 May 03 03:48	21° <b>Ω</b> 15'18
minimum elong	5878 Aug 03 22:50	15° <b>Ω</b> 34'23 7°51'26	evening set	5885 Jul 27 10:59	22° <b>Ω</b> 26′18
max. Earth dist.	5878 Aug 02 23:33	15° <b>Ω</b> 33'02 47.46919 AU	max. Earth dist.	5885 Aug 09 19:33	22° <b>Ω</b> 45'17 46.31607 AU
morning rise	5878 Aug 17 15:08	15° <b>Ω</b> 53′28		•	
retrograde	5878 Nov 14 10:40	17° <b>Ω</b> 06'26	conjunction	5885 Aug 11 03:28	22° <b>Ω</b> 47'12 -5°57'32
opposition	5879 Feb 05 01:33	16° <b>Ω</b> 05'47 -8°03'56	minimum elong	5885 Aug 11 03:36	22° <b>Ω</b> 47'12 5°57'32
min. Earth dist.	5879 Feb 05 23:07	16° <b>Ω</b> 04'45 45.41226 AU	_	5885 Aug 25 21:36	23° <b>Ω</b> 08'11
direct	5879 Apr 27 14:24	15° <b>Ω</b> 05'22	retrograde	5885 Nov 21 17:41	24° <b>Ω</b> 21'18
evening set	5879 Jul 22 11:02	16° <b>Ω</b> 16′01	opposition	5886 Feb 11 21:40	23° <b>Q</b> 19'37 -6°04'36
max. Earth dist.	5879 Aug 04 06:25	16° <b>Ω</b> 33'54 47.31802 AU	* *	5886 Feb 13 02:31	23° <b>Ω</b> 18'12 44.23651 AU
			direct	5886 May 04 07:36	22° <b>Ω</b> 17'58
conjunction	5879 Aug 05 05:54	16° <b>Ω</b> 35'17 -7°35'51	evening set	5886 Jul 28 15:42	23° <b>Ω</b> 29'06
minimum elong	5879 Aug 05 06:03	16° <b>Ω</b> 35'17 7°35'53	max. Earth dist.	5886 Aug 11 02:55	23°Ω48'18 46.13708 AU
morning rise	5879 Aug 19 02:14	16° <b>Ω</b> 54'39	man. Darin dist.	000011 <b>ug</b> 11 0 <b>2</b> .00	25 00.010 10.15,00110
retrograde	5879 Nov 15 18:30	18° <b>Ω</b> 07'37	conjunction	5886 Aug 12 11:26	23° <b>Ω</b> 50'15 -5°40'16
opposition	5880 Feb 06 07:27	17° <b>Ω</b> 06'52 -7°47'38	minimum elong	5886 Aug 12 11:34	23° <b>Ω</b> 50'15 5°40'18
min. Earth dist.	5880 Feb 07 05:59	$17^{\circ}\Omega$ 05'47 45.25737 AU	•	5886 Aug 27 08:38	24°Ω11'30
direct	5880 Apr 27 19:22	16° <b>Ω</b> 06'19	retrograde	5886 Nov 23 01:10	25° <b>Ω</b> 24'43
evening set	5880 Jul 22 14:30	17° <b>Ω</b> 17'00	opposition	5887 Feb 13 04:39	24°Ω22'52 -5°46'30
max. Earth dist.	5880 Aug 04 11:30	17° <b>Ω</b> 35'02 47.16203 AU	* *	5887 Feb 14 10:52	24°Ω21'22 44.05530 AU
max. Latur dist.	3000 Aug 04 11.30	17 8633 02 47.10203 AO	direct	5887 May 05 14:36	23°Ω21'02
conjunction	5880 Aug 05 13:11	17° <b>Ω</b> 36'33 -7°20'03	evening set	5887 Jul 29 20:55	24° <b>Ω</b> 32'19
·	5880 Aug 05 13:20	17° <b>Ω</b> 36'33 7°20'04	max. Earth dist.		24° <b>Ω</b> 51'44 45.95588 AU
minimum elong	5880 Aug 03 13:20 5880 Aug 19 13:35	17° <b>Ω</b> 56'12	max. Earth dist.	5887 Aug 12 10:46	24 <b>6(</b> 31 44 43.93388 AU
morning rise	5880 Nov 16 03:45	17 <b>δ 2</b> 36 12 19° <b>Ω</b> 09'09	agnismation	5007 Aug 12 10:44	24° <b>Ω</b> 53'44 -5°22'46
retrograde			conjunction	5887 Aug 13 19:44	24° <b>Ω</b> 53'44 -5°22'47
opposition min. Earth dist.	5881 Feb 06 13:32 5881 Feb 07 13:10	18° <b>Ω</b> 08'17 -7°31'06 18° <b>Ω</b> 07'08 45.09760 AU	minimum elong	5887 Aug 13 19:51	25°Ω15'14
		18° <b>λ</b> 07'08 45.09760 AU 17° <b>Ω</b> 07'34	•	5887 Aug 28 19:57 5887 Nov 24 07:18	25° <b>Ω</b> 28'34
direct	5881 Apr 28 23:30		retrograde		
evening set	5881 Jul 23 18:03	18° <b>Ω</b> 18'18	opposition	5888 Feb 14 11:33	25° <b>Ω</b> 26'34 -5°28'07
	5001 A 06 20 26	100 0 2010 7 700 402	min. Earth dist.	5888 Feb 15 17:40	25° <b>Ω</b> 25'04 43.87188 AU
conjunction	5881 Aug 06 20:36	18° <b>Ω</b> 38'07 -7°04'02	direct	5888 May 05 23:37	24° <b>Ω</b> 24'34
minimum elong	5881 Aug 06 20:45	18°Ω38'08 7°04'03	evening set	5888 Jul 30 02:36	25° <b>Ω</b> 36'02
max. Earth dist.	5881 Aug 05 17:28	18° <b>Ω</b> 36'31 47.00094 AU	max. Earth dist.	5888 Aug 12 17:19	25° <b>Ω</b> 55'35 45.77224 AU
morning rise	5881 Aug 21 00:44	18° <b>Ω</b> 58'03		5000 / 5000	0.50 0.55115
retrograde	5881 Nov 17 09:37	20°Ω11'01	conjunction	5888 Aug 14 04:15	25° \$\Omega 57'42 -5° 05'00
opposition	5882 Feb 07 19:46	19° <b>Ω</b> 09'59 -7°14'19	minimum elong	5888 Aug 14 04:22	25° <b>Ω</b> 57'42 5°05'01

morning rise	5888 Aug 29 07:27	26° <b>Ω</b> 19'28		opposition	5895 Feb 21 18:53	3° <b>m</b> )09'11	-3°11'57
retrograde	5888 Nov 24 16:14	$20^{\circ} \Omega_{1928}$ $27^{\circ} \Omega_{32'57}$		min. Earth dist.	5895 Feb 23 09:18		42.49038 AU
opposition	5889 Feb 14 18:53	26° <b>Ω</b> 30'49	5000120	direct	5895 May 14 04:25	2° Mp 05'47	42.49036 AU
min. Earth dist.	5889 Feb 14 18.35 5889 Feb 16 02:45		-3 09 28 43.68600 AU	evening set	5895 Aug 07 04:51	3°M) 19'06	
		$25^{\circ}\Omega 28'39$	43.08000 AU	=	•		44 20200 ATT
direct	5889 May 07 06:09	25° <b>Ω</b> 40'20		max. Earth dist.	5895 Aug 21 02:39	3 110 39 41	44.38280 AU
evening set	5889 Jul 31 08:27		45 50501 ATT	:	5005 A 22 22-44	20 m 42126	2052127
max. Earth dist.	5889 Aug 14 02:11	2/360008	45.58591 AU	conjunction	5895 Aug 22 22:44	3° Mp 42'26	
· · · · · · · · · · · ·	5000 A 15 12.00	279 002115	4046150	minimum elong	5895 Aug 22 22:49	3° Mp 42'27	2-55'50
conjunction	5889 Aug 15 13:00	27° <b>Ω</b> 02'15		morning rise	5895 Sep 07 17:50	4° Mp 05'52	
minimum elong	5889 Aug 15 13:07	27°Ω02'15	4°46′58	retrograde	5895 Dec 03 15:03	5° Mp 20'57	2051126
morning rise	5889 Aug 30 18:45	27° <b>Ω</b> 24'16		opposition	5896 Feb 23 03:31	4° Mp 17'33	
retrograde	5889 Nov 26 01:10	28° <b>Ω</b> 37'57	40.5012.2	min. Earth dist.	5896 Feb 24 19:16		42.27683 AU
opposition	5890 Feb 16 02:16	27° <b>Ω</b> 35'41		direct	5896 May 14 09:15	3° My 13'53	
min. Earth dist.	5890 Feb 17 10:32		43.49711 AU	evening set	5896 Aug 07 13:35	4° m 27'32	
direct	5890 May 08 12:36	26° <b>Ω</b> 33'20		max. Earth dist.	5896 Aug 21 12:37	4° 110/48' 18	44.16818 AU
evening set	5890 Aug 01 14:56	27° <b>Ω</b> 45'16					
max. Earth dist.	5890 Aug 15 09:04	28° <b>3′2</b> 05′11	45.39632 AU	conjunction	5896 Aug 23 09:17	4° <b>m</b> 51'05	
		0		minimum elong	5896 Aug 23 09:20	4° m 51'06	2°33'51
conjunction	5890 Aug 16 21:56	28° <b>Ω</b> 07'25		morning rise	5896 Sep 08 05:51	5° <b>m</b> ) 14'44	
minimum elong	5890 Aug 16 22:02	28° <b>Ω</b> 07'26	4°28'43	retrograde	5896 Dec 04 02:10	6° Mg 30′06	
morning rise	5890 Sep 01 06:26	28° <b>Ω</b> 29'42		opposition	5897 Feb 23 12:31	5° Mp 26′28	
retrograde	5890 Nov 27 13:22	29° <b>Ω</b> 43'35		min. Earth dist.	5897 Feb 25 05:29	5° Mg 24'22	42.06020 AU
opposition	5891 Feb 17 09:54	28° <b>Ω</b> 41'10		direct	5897 May 15 17:00	4° Mg 22'31	
min. Earth dist.	5891 Feb 18 19:29		43.30473 AU	evening set	5897 Aug 08 22:40	5° Mg 36'32	
direct	5891 May 09 17:13	27° <b>Ω</b> 38'39		max. Earth dist.	5897 Aug 22 22:17	5° Mp 57′26	43.95091 AU
evening set	5891 Aug 02 21:39	28° <b>Ω</b> 50′50					
max. Earth dist.	5891 Aug 16 17:17	29° <b>Ω</b> 10′56	45.20261 AU	conjunction	5897 Aug 24 19:48	6°Mp00'17	-2°13'48
				minimum elong	5897 Aug 24 19:52	6° Mp 00′18	2°13'49
conjunction	5891 Aug 18 07:16	29° <b>Ω</b> 13'15	-4°10'10	morning rise	5897 Sep 09 17:52	6° Mp 24′08	
minimum elong	5891 Aug 18 07:22	29° <b>Ω</b> 13'15	4°10'10	retrograde	5897 Dec 05 12:40	7° <b>m</b> ,39'48	
morning rise	5891 Sep 02 18:05	29° <b>Ω</b> 35'46		opposition	5898 Feb 24 21:37	6° Mg 35′56	
	5891 Sep 20 11:01	0° <b>m</b>		min. Earth dist.	5898 Feb 26 14:39	6° Mp 33′49	41.84129 AU
retrograde	5891 Nov 28 23:13	0° <b>m</b> ,49′52		direct	5898 May 17 03:44	5° <b>m</b> 31'43	
	5892 Feb 08 03:55	$30^\circ$ R $\Omega$		evening set	5898 Aug 10 08:15	6° Mp 46′06	
opposition	5892 Feb 18 17:55	29° <b>Ω</b> 47'18	-4°11'54	max. Earth dist.	5898 Aug 24 07:32	7° <b>™</b> 07'05	43.73139 AU
min. Earth dist.	5892 Feb 20 05:15	29° <b>Ω</b> 45'31	43.10791 AU				
direct	5892 May 10 01:31	28° <b>Ω</b> 44'35		conjunction	5898 Aug 26 06:39	7° <b>M</b> 10′04	-1°53'32
evening set	5892 Aug 03 04:58	29° <b>Ω</b> 57′03		minimum elong	5898 Aug 26 06:42	7° <b>m</b> 10'05	1°53'32
	5892 Aug 05 06:14	0° <b>m</b> ∕		morning rise	5898 Sep 11 05:59	7° <b>m</b> √34'07	
max. Earth dist.	5892 Aug 17 01:38	0° <b>m</b> )17'17	45.00439 AU	retrograde	5898 Dec 06 22:20	8° <b>m</b> 50'07	
				opposition	5899 Feb 26 07:07	7° Mp 46′00	-1°48'12
conjunction	5892 Aug 18 16:54	0° <b>m</b> 19'42	-3°51'24	min. Earth dist.	5899 Feb 28 01:47	7° <b>m</b> 43'47	41.62051 AU
minimum elong	5892 Aug 18 16:59	0° <b>™</b> 19'43	3°51'25	direct	5899 May 18 14:29	6°Mp41'31	
morning rise	5892 Sep 03 06:01	0° Mp 42′27		evening set	5899 Aug 11 18:09	7° <b>m</b> ,56′18	
retrograde	5892 Nov 29 08:22	1° <b>m</b> 56'46		max. Earth dist.	5899 Aug 25 18:58	8° <b>m</b> 17'30	43.51019 AU
opposition	5893 Feb 19 01:54	0° <b>m</b> 54'02	-3°52'11				
min. Earth dist.	5893 Feb 20 13:41	0° <b>m</b> 52′13	42.90648 AU	conjunction	5899 Aug 27 17:51	8° <b>m</b> 20'29	-1°33'00
	5893 Apr 13 12:48	30° <b>Ŗ</b> Ω		minimum elong	5899 Aug 27 17:54	8° <b>m</b> ,20′29	1°33'00
direct	5893 May 11 10:47	29° <b>Ω</b> 51′06		morning rise	5899 Sep 12 18:11	8° <b>m</b> 44'44	
	5893 Jun 08 03:28	0° <b>m</b> )		retrograde	5899 Dec 08 07:40	10° <b>m</b> 01'06	
evening set	5893 Aug 04 12:40	1° <b>m</b> 03'50		opposition	5900 Feb 27 16:50	8° <b>m</b> 56'45	-1°26'35
max. Earth dist.	5893 Aug 18 09:08	1° <b>m</b> 24'10	44.80138 AU	min. Earth dist.	5900 Mar 01 11:14	8° <b>m</b> 54'32	41.39808 AU
				direct	5900 May 20 01:18	7° <b>m</b> 51'59	
conjunction	5893 Aug 20 02:40	1° Mp 26'44	-3°32'23	evening set	5900 Aug 13 04:49	9° <b>m</b> 07'13	
minimum elong	5893 Aug 20 02:46	1° Mp 26'45	3°32'23	max. Earth dist.	5900 Aug 27 04:31	9° <b>m</b> ,28′28	43.28732 AU
morning rise	5893 Sep 04 17:58	1° <b>m</b> 49'44					
retrograde	5893 Nov 30 16:54	3° <b>m</b> 04'17		conjunction	5900 Aug 29 05:18	9° <b>m</b> 31'35	-1°12'13
opposition	5894 Feb 20 10:22	2° m 01'20	-3°32'12	minimum elong	5900 Aug 29 05:20	9° <b>m</b> 31'35	1°12'13
min. Earth dist.	5894 Feb 22 00:22		42.70050 AU	morning rise	5900 Sep 14 06:39	9° My 56'02	
direct	5894 May 12 19:26	0° m 58'11		retrograde	5900 Dec 09 20:34	11° <b>m</b> 12'48	
evening set	5894 Aug 05 20:24	2° m 11'12		opposition	5901 Mar 01 02:47	10° <b>m</b> 08'14	-1°04'41
max. Earth dist.	5894 Aug 19 18:45	-	44.59403 AU	min. Earth dist.	5901 Mar 02 22:32	-	41.17411 AU
	-			direct	5901 May 21 08:46	9° <b>m</b> 03'12	
conjunction	5894 Aug 21 12:35	2° <b>m</b> 34'19	-3°13'07	evening set	5901 Aug 14 15:49	10° <b>m</b> ) 18'55	
minimum elong	5894 Aug 21 12:40	2° <b>m</b> 34'19		max. Earth dist.	5901 Aug 28 16:14	-	43.06262 AU
morning rise	5894 Sep 06 05:43	2° m 57'32			-	•	
retrograde	5894 Dec 02 01:39	4° m/ 12'21		conjunction	5901 Aug 30 17:11	10° <b>m</b> 43'28	-0°51'11
-		-		-	-	-	

minimum elong	5901 Aug 30 17:13	10° m 43'28	0°51'11	retrograde	5907 Dec 19 19:44	19° m 58'30	
morning rise	5901 Sep 15 19:02	11° <b>m</b> ) 08'05	0 0111	opposition	5908 Mar 09 09:56	18° m 52'04	1°36'05
retrograde	5901 Dec 11 09:47	12° m 25'19		min. Earth dist.	5908 Mar 11 12:39		39.52727 AU
opposition	5902 Mar 02 13:09	11° <b>m</b> ) 20'30	-0°42'30	direct	5908 May 29 10:09	17° <b>m</b> ) 44'54	
min. Earth dist.	5902 Mar 04 09:44	11° <b>m</b> )18'09	40.94811 AU	evening set	5908 Aug 23 13:48	19° <b>m</b> 04'48	
direct	5902 May 22 17:15	10° mp 15'13		max. Earth dist.	5908 Sep 06 04:20	19° <b>m</b> 26'31	41.40480 AU
evening set	5902 Aug 16 03:20	11° <b>m</b> ) 31'27			•	•	
max. Earth dist.	5902 Aug 30 02:59	11° mp 52'56	42.83571 AU	conjunction	5908 Sep 08 14:13	19° Mp 30′24	1°42'50
	•			minimum elong	5908 Sep 08 14:10	19° <b>m</b> 30'24	1°42'50
conjunction	5902 Sep 01 05:09	11° <b>m</b> 56'11	-0°29'54	morning rise	5908 Sep 24 14:34	19° <b>m</b> 56'02	
minimum elong	5902 Sep 01 05:10	11° <b>m</b> 56'11	0°29'54	retrograde	5908 Dec 20 11:16	21° Mp 17'05	
morning rise	5902 Sep 17 07:36	12° <b>m</b> 20'59		opposition	5909 Mar 10 22:36	20° <b>m</b> 10'19	2°00'04
retrograde	5902 Dec 13 01:11	13° <b>m</b> 38'40		min. Earth dist.	5909 Mar 13 02:49	20° Mp 07'29	39.28070 AU
opposition	5903 Mar 03 23:44	12° <b>m</b> 33'38	-0°20'04	direct	5909 May 30 23:04	19° <b>m</b> 02'48	
min. Earth dist.	5903 Mar 05 20:47	12° <b>m</b> /31'15	40.71965 AU	evening set	5909 Aug 25 05:36	20° m 23'25	
direct	5903 May 24 02:00	11° <b>m</b> )28'04		max. Earth dist.	5909 Sep 07 18:49	20° Mp 45'12	41.15710 AU
evening set	5903 Aug 17 15:40	12° <b>m</b> 44'51					
max. Earth dist.	5903 Aug 31 14:01	13°M)06'23	42.60567 AU	conjunction	5909 Sep 10 04:56	20°M/49'08	2°05'44
				minimum elong	5909 Sep 10 04:52	20° ₩ 49'08	2°05'44
conjunction	5903 Sep 02 17:48	13° <b>m</b> 09'46	-0°08'24	morning rise	5909 Sep 26 04:07	21° <b>m</b> 14'52	
minimum elong	5903 Sep 02 17:49	13° <b>m</b> 09'46	0°08'25	retrograde	5909 Dec 22 02:24	22° <b>m</b> 36'35	
behind sun begin	5903 Sep 02 12:07	13° <b>m</b> 09'25		opposition	5910 Mar 12 11:35	21° <b>m</b> 29'31	2°24'18
behind sun end	5903 Sep 02 23:31	13° Mp 10'06		min. Earth dist.	5910 Mar 14 15:27	21° <b>m</b> 26'40	39.03287 AU
morning rise	5903 Sep 18 20:27	13° <b>m</b> 34'43		direct	5910 Jun 01 13:20	20° Mp 21'38	
retrograde	5903 Dec 14 13:27	14° <b>m</b> 52'55		evening set	5910 Aug 26 22:00	21° <b>m</b> 43'02	
asc. node	5904 Jan 21 21:52	14° <b>m</b> 35'42		max. Earth dist.	5910 Sep 09 08:07	22° <b>m</b> 04'45	40.90819 AU
opposition	5904 Mar 04 10:43	13° <b>m</b> 47'38	0°02'39				
min. Earth dist.	5904 Mar 06 09:51	13° <b>m</b> 45'08	40.48789 AU	conjunction	5910 Sep 11 19:51	22° <b>m</b> 08'50	2°28'52
direct	5904 May 24 13:14	12° <b>m</b> 41'47		minimum elong	5910 Sep 11 19:47	22° <b>m</b> 08'50	2°28'52
evening set	5904 Aug 18 04:32	13° <b>m</b> 59'08		morning rise	5910 Sep 27 17:39	22° <b>m</b> 34'40	
max. Earth dist.	5904 Sep 01 02:33	14° <b>m</b> 20'46	42.37219 AU	retrograde	5910 Dec 23 16:22	23° <b>m</b> 57'05	
				opposition	5911 Mar 14 01:07	22° <b>m</b> 49'42	2°48'46
conjunction	5904 Sep 03 06:54	14° <b>m</b> 24'12	0°13'27	min. Earth dist.	5911 Mar 16 06:30	22° Mp 46'46	38.78425 AU
minimum elong	5904 Sep 03 06:53	14° Mp 24'12	0°13'27	direct	5911 Jun 03 02:00	21°Mp41'29	
behind sun begin	5904 Sep 03 03:22	14° Mp 23'59		evening set	5911 Aug 28 15:09	23° Mp 03'40	
behind sun end	5904 Sep 03 10:24	14° <b>M</b> 24'25		max. Earth dist.	5911 Sep 11 00:11	23° <b>m</b> 25'29	40.65862 AU
morning rise	5904 Sep 19 09:29	14° <b>M</b> 49'19					
retrograde	5904 Dec 15 00:38	16°Mp08'01		conjunction	5911 Sep 13 11:31	23° <b>m</b> 29'34	2°52'11
opposition	5905 Mar 05 22:00	15° Mp 02'29		minimum elong	5911 Sep 13 11:26	23° <b>m</b> 29'33	2°52'10
min. Earth dist.	5005 Mar 07 21:22	14° <b>m</b> 59'57	40.25255 AU	morning rise	5011 Can 20 07:25	23° <b>m</b> 55'28	
	5905 Mar 07 21:23				5911 Sep 29 07:25		
direct	5905 May 26 02:31	13° <b>m</b> 56'19		retrograde	5911 Dec 25 06:13	25° m 18'39	
evening set	5905 May 26 02:31 5905 Aug 19 18:00	15° Mp 14'16		opposition	5911 Dec 25 06:13 5912 Mar 14 14:53	24° Mp 10'58	3°13'26
	5905 May 26 02:31	15° Mp 14'16	42.13498 <b>A</b> U	opposition min. Earth dist.	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08	24° Mp 10'58 24° Mp 08'00	3°13'26 38.53518 AU
evening set max. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15	15° Mp 14'16 15° Mp 35'52		opposition min. Earth dist. direct	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31	24° M 10'58 24° M 08'00 23° M 02'23	
evening set max. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04	15° m 14'16 15° m 35'52 15° m 39'29	0°35'26	opposition min. Earth dist. direct evening set	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27	38.53518 AU
evening set max. Earth dist.  conjunction minimum elong	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29		opposition min. Earth dist. direct	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27	
evening set max. Earth dist.  conjunction minimum elong morning rise	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 20 22:34	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45	0°35'26	opposition min. Earth dist. direct evening set max. Earth dist.	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11	38.53518 AU 40.40872 AU
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00	0°35'26 0°35'25	opposition min. Earth dist. direct evening set max. Earth dist. conjunction	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24	38.53518 AU 40.40872 AU 3°15'41
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10	0°35'26 0°35'25 0°48'51	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24	38.53518 AU 40.40872 AU 3°15'41
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31	0°35'26 0°35'25	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22	38.53518 AU 40.40872 AU 3°15'41
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42	0°35'26 0°35'25 0°48'51	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23	38.53518 AU 40.40872 AU 3°15'41 3°15'41
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14	0°35'26 0°35'25 0°48'51 40.01374 AU	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 33'24	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14	0°35'26 0°35'25 0°48'51	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 33'24 25° m 30'23	38.53518 AU 40.40872 AU 3°15'41 3°15'41
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 51'57	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 33'24 25° m 30'23 24° m 24'29 25° m 48'28	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20 38.28596 AU
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45 5906 Sep 06 09:49 5906 Sep 06 09:48	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 33'24 25° m 30'23 24° m 24'29 25° m 48'28	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 22 11:44	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 51'57 16° m 55'36 16° m 55'36 17° m 21'01	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20 38.28596 AU 40.15832 AU
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 22 11:44 5906 Dec 18 03:06	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 51'57 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11 24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 33'24 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12	38.53518 AU 40.40872 AU 3°15'41 3°38'20 38.28596 AU 40.15832 AU 3°39'23
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15 5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45 5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 22 11:44 5906 Dec 18 03:06 5907 Mar 08 21:40	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31 5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48 5913 Sep 15 19:54 5913 Sep 15 19:54	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'28	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20 38.28596 AU 40.15832 AU
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 22 11:44 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Oct 01 11:24	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'28 26° m 14'28	38.53518 AU 40.40872 AU 3°15'41 3°15'41 3°38'20 38.28596 AU 40.15832 AU 3°39'23
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 06 09:48 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34 5907 May 28 23:46	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00 16° m 27'53	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Oct 01 11:24 5913 Dec 27 17:48	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'27 26° m 40'28 28° m 05'21	38.53518 AU 40.40872 AU 3°15'41 3°38'20 38.28596 AU 40.15832 AU 3°39'23 3°39'23
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 22 11:44 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34 5907 May 28 23:46 5907 Aug 22 22:34	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00 16° m 27'53 17° m 47'05	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40 1°12'20 39.77176 AU	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Oct 01 11:24 5913 Dec 27 17:48 5914 Mar 17 20:02	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'27 26° m 40'28 28° m 05'21 26° m 57'04	38.53518 AU  40.40872 AU  3°15'41  3°38'20  38.28596 AU  40.15832 AU  3°39'23  3°39'23  4°03'25
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 20 22:34 5905 Dec 16 14:08 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 06 09:48 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34 5907 May 28 23:46	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00 16° m 27'53 17° m 47'05	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist.	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Oct 01 11:24 5913 Dec 27 17:48 5914 Mar 17 20:02 5914 Mar 20 02:54	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'27 26° m 40'28 28° m 05'21 26° m 57'04 26° m 54'00	38.53518 AU 40.40872 AU 3°15'41 3°38'20 38.28596 AU 40.15832 AU 3°39'23 3°39'23
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 06 09:43 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 06 09:48 5906 Sep 22 11:44 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34 5907 May 28 23:46 5907 Aug 22 22:34 5907 Sep 05 15:01	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00 16° m 27'53 17° m 47'05 18° m 08'46	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40 1°12'20 39.77176 AU 41.65085 AU	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Oct 01 11:24 5913 Dec 27 17:48 5914 Mar 17 20:02 5914 Mar 20 02:54 5914 Jun 06 14:40	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 33'24 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'27 26° m 40'28 28° m 05'21 26° m 57'04 26° m 54'00 25° m 47'49	38.53518 AU  40.40872 AU  3°15'41  3°38'20  38.28596 AU  40.15832 AU  3°39'23  3°39'23  4°03'25
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction conjunction	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 09 20 5905 Sep 09 20 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 22 11:44 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34 5907 May 28 23:46 5907 Aug 22 22:34 5907 Sep 05 15:01	15° m 14'16 15° m 35'52  15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 18'10 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00 16° m 27'53 17° m 47'05 18° m 08'46	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40 1°12'20 39.77176 AU 41.65085 AU 1°20'08	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Dec 27 17:48 5914 Mar 17 20:02 5914 Mar 20 02:54 5914 Jun 06 14:40 5914 Sep 01 23:24	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'28 26° m 40'28 28° m 05'21 26° m 57'04 26° m 54'00 25° m 47'49 27° m 12'47	38.53518 AU  40.40872 AU  3°15'41  3°38'20  38.28596 AU  40.15832 AU  3°39'23  3°39'23  4°03'25  38.03615 AU
evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	5905 May 26 02:31 5905 Aug 19 18:00 5905 Sep 02 13:15  5905 Sep 04 20:04 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 04 20:03 5905 Sep 06 09:43 5906 Mar 07 09:43 5906 Mar 09 10:56 5906 May 27 12:27 5906 Aug 21 07:55 5906 Sep 04 02:45  5906 Sep 06 09:49 5906 Sep 06 09:49 5906 Sep 06 09:48 5906 Sep 06 09:48 5906 Sep 22 11:44 5906 Dec 18 03:06 5907 Mar 08 21:40 5907 Mar 10 23:34 5907 May 28 23:46 5907 Aug 22 22:34 5907 Sep 05 15:01	15° m 14'16 15° m 35'52 15° m 39'29 15° m 39'29 16° m 04'45 17° m 24'00 16° m 15'31 15° m 11'42 16° m 30'14 16° m 55'36 16° m 55'36 16° m 55'36 17° m 21'01 18° m 40'49 17° m 34'42 17° m 32'00 16° m 27'53 17° m 47'05 18° m 08'46	0°35'26 0°35'25 0°48'51 40.01374 AU 41.89435 AU 0°57'40 0°57'40 1°12'20 39.77176 AU 41.65085 AU	opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct	5911 Dec 25 06:13 5912 Mar 14 14:53 5912 Mar 16 20:08 5912 Jun 03 15:31 5912 Aug 29 09:14 5912 Sep 11 14:31  5912 Sep 14 03:28 5912 Sep 14 03:22 5912 Sep 29 21:29 5912 Dec 26 00:24 5913 Mar 16 05:12 5913 Mar 18 11:11 5913 Jun 05 01:41 5913 Aug 31 03:48 5913 Sep 13 06:48  5913 Sep 15 19:54 5913 Sep 15 19:48 5913 Oct 01 11:24 5913 Dec 27 17:48 5914 Mar 17 20:02 5914 Mar 20 02:54 5914 Jun 06 14:40	24° m 10'58 24° m 08'00 23° m 02'23 24° m 25'27 24° m 47'11  24° m 51'24 24° m 51'24 25° m 17'22 26° m 41'23 25° m 30'23 24° m 24'29 25° m 48'28 26° m 10'12  26° m 14'28 26° m 14'28 26° m 40'28 28° m 05'21 26° m 57'04 26° m 54'00 25° m 47'49 27° m 12'47	38.53518 AU  40.40872 AU  3°15'41  3°38'20  38.28596 AU  40.15832 AU  3°39'23  3°39'23  4°03'25

			- ( ),		-, r
conjunction	5914 Sep 17 12:52	27° mg 38'49 4°03'14	opposition	5921 Mar 27 17:41	7° <b>≏</b> 19'24 7°03'45
minimum elong	5914 Sep 17 12:44	27° m 38'48 4°03'15	min. Earth dist.	5921 Mar 30 06:39	7° <b>£</b> 15'50 36.24447 AU
morning rise	5914 Oct 03 01:48	28° Mp 04'50	direct	5921 Jun 16 07:45	6° <b>ჲ</b> 07'18
retrograde	5914 Dec 29 13:57	29° m/30'38	evening set	5921 Sep 13 17:43	7° <b>≏</b> 40'19
opposition	5915 Mar 19 11:08	28° Mp 22'03 4° 28' 42	max. Earth dist.	5921 Sep 25 07:03	8° <b>≏</b> 00'47 38.10058 AU
min. Earth dist.	5915 Mar 21 18:09	28° Mp 18'57 37.78546	AU		
direct	5915 Jun 08 06:19	27° Mp 12'27	conjunction	5921 Sep 28 03:13	8° <b>♀</b> 05'52 6°54'03
evening set	5915 Sep 03 19:54	28° mp 38′27	minimum elong	5921 Sep 28 03:00	8° <b>♀</b> 05'51 6°54'04
max. Earth dist.	5915 Sep 16 15:01	29° Mg 00'00 39.65457	- C	5921 Oct 12 11:33	8° <b>ჲ</b> 31'23
			retrograde	5922 Jan 09 08:13	10° <b>♀</b> 04'41
conjunction	5915 Sep 19 06:28	29° m 04'29 4°27'16	opposition	5922 Mar 29 12:35	8° <b>≏</b> 53'30 7°29'59
minimum elong	5915 Sep 19 06:20	29° m 04'29 4°27'16	min. Earth dist.	5922 Apr 01 01:05	8° <b>△</b> 49'56 35.98459 AU
morning rise	5915 Oct 04 16:25	29° m/30'31	direct	5922 Jun 18 03:57	7° <b>△</b> 40'55
	5915 Oct 23 06:38	0° <b>™</b>	evening set	5922 Sep 15 20:43	9° <b>£</b> 15'19
retrograde	5915 Dec 31 09:47	0° <b>£</b> 57'16	max. Earth dist.	5922 Sep 27 03:00	9° <b>≙</b> 35'27 37.83903 AU
•,,•	5916 Mar 11 13:04	30°RM)	·	5022 G 20 00 25	9° <b>≙</b> 40'41 7°18'47
opposition	5916 Mar 20 03:01	29° m 48'22 4°54'10	conjunction	5922 Sep 30 00:35 5922 Sep 30 00:21	
min. Earth dist.	5916 Mar 22 11:58 5916 Jun 08 22:08	29° m/45'09 37.53304 28° m/38'24		5922 Sep 30 00:21 5922 Oct 14 03:18	9° <b>Δ</b> 40'40 7°18'47 10° <b>Δ</b> 06'00
direct	5916 Sep 01 10:15	ده ۱۱ <i>۱</i> اه ۶۵ که 0° <b>۵</b>	morning rise retrograde	5923 Jan 11 06:23	10 <b>≗</b> 00 00 11° <b>≗</b> 40'35
evening set	5916 Sep 04 17:17	0° <b>-</b> 205′28	opposition	5923 Mar 31 08:06	10° <b>£</b> 29'00 7°56'15
max. Earth dist.	5916 Sep 17 09:04	0° <b>£</b> 26′57 39.39994		5923 Apr 02 21:59	10° <b>⊆</b> 25'20 35.72551 AU
max. Earth dist.	3910 Sep 17 09.04	0 == 2037 39.3999	direct	5923 Jun 19 22:40	9° <b>£</b> 15'57
conjunction	5916 Sep 20 00:40	0° <b>£</b> 31'30 4°51'26	evening set	5923 Sep 18 00:45	10° <b>≙</b> 51'47
minimum elong	5916 Sep 20 00:31	0° <b>⊆</b> 31'29 4°51'26	max. Earth dist.	5923 Sep 18 00:45 5923 Sep 29 01:47	11° <b>2</b> 11'42 37.57851 AU
morning rise	5916 Oct 05 07:10	0° <b>⊆</b> 57'30	max. Earth dist.	5,25 Sep 2, 01.17	11 = 11 12 37.37031110
retrograde	5917 Jan 01 02:31	2° <b>£</b> 25'14	conjunction	5923 Oct 01 22:41	11° <b>≙</b> 16'56 7°43'30
opposition	5917 Mar 21 19:14	1° <b>2</b> 16'01 5°19'48	minimum elong	5923 Oct 01 22:26	11° <b>♀</b> 16'55 7°43'32
min. Earth dist.	5917 Mar 24 04:09	1° <b>£</b> 12'46 37.27855	e	5923 Oct 15 19:11	11° <b>♀</b> 42'02
direct	5917 Jun 10 15:30	0° <b>ჲ</b> 05'39	retrograde	5924 Jan 13 03:03	13° <b>♀</b> 17'58
evening set	5917 Sep 06 15:38	1° <b>≏</b> 33'49	opposition	5924 Apr 01 04:17	12° <b>♀</b> 05'59 8°22'31
max. Earth dist.	5917 Sep 19 01:30	1° <b>≙</b> 55'04 39.14313		5924 Apr 03 17:33	12° <b>♀</b> 02'18 35.46772 AU
			direct	5924 Jun 20 19:21	10° <b>♀</b> 52'29
conjunction	5917 Sep 21 19:16	1° <b>£</b> 59'48 5°15'45	evening set	5924 Sep 19 06:00	12° <b>≏</b> 29'50
minimum elong	5917 Sep 21 19:07	1° <b>£</b> 59'48 5°15'46	max. Earth dist.	5924 Sep 29 23:02	12° <b>≏</b> 49'21 37.31944 AU
morning rise	5917 Oct 06 22:14	2° <b>≏</b> 25'47			
retrograde	5918 Jan 02 20:38	3° <b>ჲ</b> 54'32	conjunction	5924 Oct 02 21:15	12° <b>♀</b> 54'44 8°08'12
opposition	5918 Mar 23 12:08	2° <b>£</b> 44'57 5°45'36	minimum elong	5924 Oct 02 20:59	12° <b>≏</b> 54'42 8°08'12
min. Earth dist.	5918 Mar 25 22:37	2° <b>£</b> 41'35 37.02213	•	5924 Oct 16 11:19	13° <b>≏</b> 19'34
direct	5918 Jun 12 06:30	1° <b>△</b> 34'11	retrograde	5925 Jan 14 02:17	14° <b>£</b> 56'56
evening set	5918 Sep 08 14:35	3° <b>⊆</b> 03′28	opposition	5925 Apr 03 01:04	13° <b>△</b> 44'33 8°48'46
max. Earth dist.	5918 Sep 20 20:36	3° <b>£</b> 24'37 38.88430		5925 Apr 05 14:55	13° <b>△</b> 40′50 35.21171 AU
	5010 G 22 14 27	20 0 20124 5040111	direct	5925 Jun 22 13:20	12° <b>△</b> 30'37
conjunction	5918 Sep 23 14:27	3° <b>£</b> 29'24 5°40'11	evening set	5925 Sep 21 12:14 5925 Oct 01 22:59	14° <b>♀</b> 09'34
minimum elong	5918 Sep 23 14:16	3° <b>£</b> 29'23 5°40'11	max. Earth dist.	3923 Oct 01 22:39	14° <b>£</b> 28'47 37.06200 AU
morning rise	5918 Oct 08 13:12 5919 Jan 04 14:31	3° <b>£</b> 55'18	agniumation	5925 Oct 04 20:39	140.0.24111 0022150
retrograde opposition	5919 Jan 04 14.31 5919 Mar 25 05:31	5° <b>£</b> 25'07 4° <b>£</b> 15'09 6°11'32	conjunction minimum elong	5925 Oct 04 20:39	14° <b>£</b> 34'11 8°32'50 14° <b>£</b> 34'09 8°32'52
min. Earth dist.	5919 Mar 27 16:38	4° <b>£</b> 11'44 36.76388	e	5925 Oct 18 03:30	14° <b>2</b> 58'42
direct	5919 Jun 13 22:25	3° <b>£</b> 03'57	retrograde	5926 Jan 16 01:13	16° <b>≙</b> 37'36
evening set	5919 Sep 10 14:47	4° <b>£</b> 34'26	opposition	5926 Apr 04 22:37	15° <b>≙</b> 24'51 9°14'57
max. Earth dist.	5919 Sep 22 14:47	4° <b>£</b> 55'19 38.62392		5926 Apr 07 12:46	15° <b>£</b> 21'05 34.95736 AU
	r		direct	5926 Jun 24 08:23	14° <b>♀</b> 10'30
conjunction	5919 Sep 25 10:09	5° <b>£</b> 00'16 6°04'44	evening set	5926 Sep 23 19:45	15° <b>≏</b> 51′08
minimum elong	5919 Sep 25 09:58	5° <b>£</b> 00'15 6°04'45	max. Earth dist.	5926 Oct 03 22:15	16° <b>≏</b> 09'54 36.80618 AU
morning rise	5919 Oct 10 04:39	5° <b>≏</b> 26'04			
retrograde	5920 Jan 06 11:57	6° <b>≏</b> 57′00	conjunction	5926 Oct 06 20:31	16° <b>≏</b> 15'24 8°57'23
opposition	5920 Mar 25 23:12	5° <b>£</b> 46'38 6°37'36	minimum elong	5926 Oct 06 20:14	16° <b>≙</b> 15'22 8°57'23
min. Earth dist.	5920 Mar 28 10:54	5° <b>£</b> 43'10 36.50452	AU morning rise	5926 Oct 19 19:58	16° <b>≏</b> 39'35
direct	5920 Jun 14 13:29	4° <b>£</b> 34'59	retrograde	5927 Jan 18 03:42	18° <b>≏</b> 20′04
evening set	5920 Sep 11 15:50	6° <b>≏</b> 06'42	opposition	5927 Apr 06 20:43	17° <b>£</b> 06'58 9°41'03
max. Earth dist.	5920 Sep 23 10:20	6° <b>£</b> 27′23 38.36239		5927 Apr 09 10:48	17° <b>≙</b> 03'11 34.70448 AU
			direct	5927 Jun 26 04:42	15° <b>≏</b> 52'11
					150 0 0 40 5
conjunction	5920 Sep 26 06:33	6° <b>£</b> 32'25 6°29'22	evening set	5927 Sep 26 04:34	17° <b>£</b> 34'35
minimum elong	5920 Sep 26 06:20	6° <b>£</b> 32'24 6°29'22	evening set max. Earth dist.	5927 Sep 26 04:34 5927 Oct 05 22:23	17° <b>£</b> 34'35 17° <b>£</b> 52'53 36.55122 AU
	•		•	•	

minimum elong	5927 Oct 08 21:07	17° <b>≙</b> 58'27 9°21'50	direct	5934 Jul 08 06:24	28° <b>♀</b> 35'50
morning rise	5927 Oct 08 21:07 5927 Oct 21 12:44	17 <b>⊆</b> 3827 9 2130 18° <b>⊆</b> 22'17	unect	5934 Sep 25 12:29	0°M
retrograde	5928 Jan 20 06:15	18 <b>≗</b> 22 17 20° <b>♀</b> 04'26	evening set	5934 Oct 12 08:43	0°ML32'48
opposition	5928 Apr 07 19:37	18° <b>2</b> 50′56 10°07′01	max. Earth dist.	5934 Oct 18 22:59	0°ML46'06 34.79438 AU
min. Earth dist.	5928 Apr 10 11:03	18° <b>2</b> 47'03 34.45238 A		3934 Oct 16 22.39	0 IIL40 00 34./9438 AU
	5928 Apr 10 11:05 5928 Jun 27 02:56	18 <b>2</b> 47 03 34.43238 7 17° <b>2</b> 35'44		5024 Oct 21 22:26	0°ML52'14 12°06'27
direct	5928 Sep 27 14:51	1/° <b>≥</b> 235'44 19° <b>♀</b> 20'00	conjunction minimum elong	5934 Oct 21 23:36 5934 Oct 21 23:14	0°ML52'12 12°06'28
evening set max. Earth dist.	5928 Sep 27 14:51 5928 Oct 07 00:08	19° <b>2</b> 20'00 19° <b>2</b> 37'48 36.29696 A	· ·		1°ML11'33
max. Earth dist.	3928 Oct 07 00:08	19°223/48 30.29090 A	_	5934 Oct 31 13:00	
	5020 0 + 00 22 00	100 0 4210 ( 004 (105	retrograde	5935 Feb 02 11:39	3°ML07'25
conjunction	5928 Oct 09 23:00	19° <b>£</b> 43'26 9°46'05	opposition	5935 Apr 21 08:54	1°M50'56 13°02'06
minimum elong	5928 Oct 09 22:42	19° <b>△</b> 43'25 9°46'06	min. Earth dist.	5935 Apr 24 01:40	1°M.46'46 32.72140 AU
morning rise	5928 Oct 22 05:39	20° <b>♀</b> 06'48	direct	5935 Jul 10 08:41	0°M.32'17
retrograde	5929 Jan 21 10:23	21° <b>£</b> 50'41	evening set	5935 Oct 15 05:10	2°M31'43
opposition	5929 Apr 09 19:16	20° <b>£</b> 36'49 10°32'51	max. Earth dist.	5935 Oct 21 06:31	2°M44'03 34.55366 AU
min. Earth dist.	5929 Apr 12 10:09	20° <b>£</b> 32′56 34.20090 A			
direct	5929 Jun 29 03:28	19° <b>£</b> 21′09	conjunction	5935 Oct 24 06:19	2°ML50'10 12°28'27
evening set	5929 Sep 30 02:11	21° <b>≏</b> 07′20	minimum elong	5935 Oct 24 05:57	2°M50'08 12°28'28
max. Earth dist.	5929 Oct 09 00:48	21° <b>≏</b> 24′28 36.04308 A	Č	5935 Nov 02 06:05	3°M08'32
			retrograde	5936 Feb 04 20:06	5°M06'43
conjunction	5929 Oct 12 01:09	21° <b>△</b> 30'17 10°10'12	opposition	5936 Apr 22 13:45	3°M49'48 13°25'27
minimum elong	5929 Oct 12 00:49	21° <b>2</b> 30′16 10°10′13	min. Earth dist.	5936 Apr 25 05:07	3°M45'41 32.48597 AU
morning rise	5929 Oct 23 22:40	21° <b>≏</b> 53'09	direct	5936 Jul 11 13:50	2°M30'39
retrograde	5930 Jan 23 13:11	23° <b>₤</b> 38′50	evening set	5936 Oct 17 03:12	4°M32'40
opposition	5930 Apr 11 19:46	22° <b>△</b> 24'33 10°58'30	max. Earth dist.	5936 Oct 22 13:50	4°ML43'52 34.31768 AU
min. Earth dist.	5930 Apr 14 12:05	22° <b>♀</b> 20'34 33.95002 A	AU		
direct	5930 Jul 01 02:13	21° <b>♀</b> 08'26	conjunction	5936 Oct 25 13:48	4° <b>ጤ</b> 50'03 12°49'52
evening set	5930 Oct 02 15:04	22° <b>ჲ</b> 56'36	minimum elong	5936 Oct 25 13:27	4°ML50'01 12°49'52
max. Earth dist.	5930 Oct 11 04:34	23° <b>₽</b> 13'10 35.78989 A	AU morning rise	5936 Nov 02 23:07	5°M07'22
			retrograde	5937 Feb 06 05:31	7° <b>M</b> 07'59
conjunction	5930 Oct 14 04:16	23° <b>№</b> 19'00 10°34'05	opposition	5937 Apr 24 19:43	5°ML50'38 13°48'09
minimum elong	5930 Oct 14 03:57	23° <b>№</b> 18'58 10°34'05	min. Earth dist.	5937 Apr 27 11:24	5°ML46'29 32.25567 AU
morning rise	5930 Oct 25 15:50	23° <b>≏</b> 41'18	direct	5937 Jul 13 18:50	4°M31'02
retrograde	5931 Jan 25 15:50	25° <b>£</b> 28'51	evening set	5937 Oct 20 03:07	6°M35'45
opposition	5931 Apr 13 20:48	24° <b>£</b> 14'09 11°23'55	max. Earth dist.	5937 Oct 24 23:52	6°M45'52 34.08711 AU
min. Earth dist.	5931 Apr 16 12:48	24° <b>£</b> 10'09 33.70000 A		3,37 000 21 23.32	0 110 12 22 3 1.00711 110
direct	5931 Jul 03 03:54	22° <b>⊆</b> 57'33	conjunction	5937 Oct 27 22:00	6°M.51'58 13°10'38
evening set	5931 Oct 05 05:24	24° <b>-</b> 47'47	minimum elong	5937 Oct 27 21:38	6°M.51'56 13°10'40
max. Earth dist.	5931 Oct 13 06:48	25° <b>2</b> 03'33 35.53778 A	_	5937 Nov 04 15:36	7°ML08'05
max. Lattii dist.	3931 Oct 13 00.48	25 = 05 55 55.557767	0	5938 Feb 08 15:32	9°ML11'17
conjunction	5931 Oct 16 08:02	25° <b>△</b> 09'33 10°57'43	retrograde opposition	5938 Apr 27 02:24	7°ML53'32 14°10'09
minimum elong	5931 Oct 16 08:02	25° <b>2</b> 09'32 10°57'44	min. Earth dist.	5938 Apr 29 16:39	7°ML49'27 32.03072 AU
-					
morning rise	5931 Oct 27 09:17	25° <b>£</b> 31'13	direct	5938 Jul 16 02:36 5938 Oct 23 05:13	6°M33'30
retrograde	5932 Jan 27 20:51	27°•20'43	evening set		8°M41'05
opposition min. Earth dist.	5932 Apr 14 22:40	26° <b>♀</b> 05'35 11°49'03	max. Earth dist.	5938 Oct 27 08:35	8°ML49'47 33.86195 AU
	5932 Apr 17 15:19	26° <b>£</b> 01'31 33.45146 A		5020 0 4 20 07 06	00 <b>W</b> 55150 12020142
direct	5932 Jul 04 03:05	24° <b>£</b> 48′29	conjunction	5938 Oct 30 07:06	8°M.55'58 13°30'42
evening set	5932 Oct 06 21:01	26° <b>£</b> 40'53	minimum elong	5938 Oct 30 06:45	8°M55'56 13°30'42
max. Earth dist.	5932 Oct 14 12:02	26° <b>£</b> 55'56 35.28724 A	Č	5938 Nov 06 07:54	9°M10'46
	5000 0 . 15 10 05	250 0 01150 11001101	retrograde	5939 Feb 11 01:36	11°M.16'42
conjunction	5932 Oct 17 12:35	27° <b>2</b> 01'56 11°21'01	opposition	5939 Apr 29 09:49	9°M.58'35 14°31'23
minimum elong	5932 Oct 17 12:14	27° <b>£</b> 01'55 11°21'02	min. Earth dist.	5939 May 02 00:12	9°M.54'28 31.81116 AU
morning rise	5932 Oct 28 02:30	27° <b>£</b> 22'54	direct	5939 Jul 18 07:58	8°M.38'06
retrograde	5933 Jan 28 23:41	29° <b>£</b> 14'26	evening set	5939 Oct 26 09:58	10°M.48'44
opposition	5933 Apr 17 01:21	27° <b>£</b> 58'52 12°13'50	max. Earth dist.	5939 Oct 29 20:23	10°M.56'02 33.64194 AU
min. Earth dist.	5933 Apr 19 18:06	27° <b>£</b> 54'45 33.20488 A			
direct	5933 Jul 06 04:20	26° <b>≏</b> 41'15	conjunction	5939 Nov 01 17:16	11°ML02'08 13°49'59
evening set	5933 Oct 09 14:13	28° <b>ჲ</b> 35'53	minimum elong	5939 Nov 01 16:55	11°ML02'06 13°50'01
max. Earth dist.	5933 Oct 16 16:48	28° <b>£</b> 50′04 35.03923 A	Č	5939 Nov 07 23:25	11° <b>M</b> .15'26
			retrograde	5940 Feb 13 11:24	13°M24'15
conjunction	5933 Oct 19 17:41	28° <b>£</b> 56'10 11°43'57	opposition	5940 Apr 30 18:19	12° <b>M</b> 05'47 14°51'47
minimum elong	5933 Oct 19 17:19	28° <b>£</b> 56′08 11°43′59	min. Earth dist.	5940 May 03 08:03	12°M01'41 31.59647 AU
morning rise	5933 Oct 29 19:48	29° <b>£</b> 16′21	direct	5940 Jul 19 15:48	10° <b>M</b> 44'54
	5933 Nov 21 18:46	0° <b>M</b> ,	evening set	5940 Oct 28 17:34	12° <b>M</b> 58'47
retrograde	5934 Jan 31 05:47	1° <b>M</b> 09'59	max. Earth dist.	5940 Oct 31 06:53	13°M04'17 33.42683 AU
	5934 Apr 15 06:08	30° <b>₹亞</b>			
opposition	5934 Apr 19 04:38	29° <b>£</b> 53'58 12°38'13	conjunction	5940 Nov 03 04:01	13°M10'28 14°08'27
min. Earth dist.	5934 Apr 21 20:52	29° <b>£</b> 49'52 32.96135 A	AU minimum elong	5940 Nov 03 03:40	13°M10'26 14°08'28
			_		

marning rigg	5940 Nov 08 13:33	13°ML22'03		ratra ara da	5049 Mar 02 05:22	10.727126	
morning rise				retrograde	5948 Mar 03 05:23	1°×737'26	1.005.000
	5940 Dec 30 18:58	15°M		opposition	5948 May 18 20:40	0° <b>₹</b> 16'05	16°56'08
retrograde	5941 Feb 15 00:11	15°M33'59		min. Earth dist.	5948 May 21 03:32	0° <b>≯</b> 12'17	30.07247 AU
	5941 Apr 03 08:53	15°RM			5948 May 28 14:18	30°RM	
opposition	5941 May 03 03:38	14°M15'08		direct	5948 Aug 06 11:23	28°M51'57	
min. Earth dist.	5941 May 05 16:40	14°ML11'04	31.38659 AU		5948 Oct 11 20:32	0°⊀	
direct	5941 Jul 21 22:46	12°M53'49		max. Earth dist.	5948 Nov 19 12:08	1° <b>҂</b> ¹23′06	31.90995 AU
	5941 Oct 26 23:21	15° <b>M</b> ₀					
evening set	5941 Nov 01 05:21	15° <b>M</b> .11'19		conjunction	5948 Nov 21 22:41	1° <b>∡</b> ¹28'42	15°58'03
max. Earth dist.	5941 Nov 02 19:55	15° <b>M</b> ₊14'47	33.21642 AU	minimum elong	5948 Nov 21 22:28	1° <b>∡</b> 728'41	15°58'04
				retrograde	5949 Mar 05 22:28	4° <b>х</b> 02′12	
conjunction	5941 Nov 05 15:50	15°M20'55	14°26'02	opposition	5949 May 21 12:37	2°× <b>7</b> 40'34	17°05'30
minimum elong	5941 Nov 05 15:30	15°M20'54	14°26'04	min. Earth dist.	5949 May 23 17:27		29.91471 AU
Č			14 20 04		•		29.914/1 AU
morning rise	5941 Nov 10 01:24	15°M30'28		direct	5949 Aug 09 03:32	1° <b>∡</b> 16'08	21 55565 177
retrograde	5942 Feb 17 10:47	17°M45'49		max. Earth dist.	5949 Nov 22 06:23	3°×'48'32	31.75565 AU
opposition	5942 May 05 13:55	16°M26'36	15°29'49				
min. Earth dist.	5942 May 08 03:00	16°M22'30	31.18134 AU	conjunction	5949 Nov 24 15:55	3° <b>₹</b> 754'04	16°05'45
direct	5942 Jul 24 06:45	15°M04'52		minimum elong	5949 Nov 24 15:44	3° <b>҂</b> ¹54'03	16°05'47
evening set	5942 Nov 04 23:53	17°M26'29		retrograde	5950 Mar 08 17:37	6° <b>҂</b> ¹28'38	
max. Earth dist.	5942 Nov 05 08:53	17° <b>M</b> L27'18	33.01100 AU	opposition	5950 May 24 05:06	5° <b>∡</b> ¹06'45	17°13'11
				min. Earth dist.	5950 May 26 07:55	5° <b>₹</b> 03'13	29.76669 AU
conjunction	5942 Nov 08 04:18	17°ML33'27	14°42'40	direct	5950 Aug 11 18:33	3° <b>҂</b> ¹42'03	
minimum elong	5942 Nov 08 03:58	17°ML33'26	14°42'41	max. Earth dist.	5950 Nov 25 03:29		31.61127 AU
Č	5942 Nov 11 07:59	17°M40'22	17 72 71	max. Lattii dist.	3730 NOV 23 03.27	0 × 1331	31.01127 AC
morning rise				. ,.	5050 NI 27 00 57	60 <b>73</b> 1100	1.601.115.1
retrograde	5943 Feb 20 00:17	19°M59'42		conjunction	5950 Nov 27 09:57	6° <b>≯</b> 21'08	16°11'51
opposition	5943 May 08 00:58	18° <b>M</b> ₊40'07	15°47'19	minimum elong	5950 Nov 27 09:48	6° <b>≯</b> 21'07	16°11'52
min. Earth dist.	5943 May 10 12:41		30.98103 AU	retrograde	5951 Mar 11 10:18	8° <b>≯</b> 56'42	
direct	5943 Jul 26 17:47	17° <b>M</b> .17'57		opposition	5951 May 26 22:29	7° <b>҂</b> ³34'37	17°19'07
max. Earth dist.	5943 Nov 07 22:55	19° <b>M</b> ₊41'52	32.81061 AU	min. Earth dist.	5951 May 28 23:54	7° <b>∡</b> ³31'10	29.62817 AU
evening set	5943 Nov 09 17:34	19° <b>M</b> 45'47		direct	5951 Aug 14 10:47	6° <b>҂</b> 09'42	
				max. Earth dist.	5951 Nov 27 23:27	8° <b>₰</b> ¹44'40	31.47677 AU
conjunction	5943 Nov 10 17:44	19° <b>M</b> .48'01	14°58'17				
minimum elong	5943 Nov 10 17:25	19° <b>M</b> 47'59	14°58'19	conjunction	5951 Nov 30 04:24	8° <b>҂</b> ¹49'50	16°16'17
morning rise	5943 Nov 11 17:17	19°ML50'11		minimum elong	5951 Nov 30 04:17	8° <b>×1</b> 49'50	16°16'20
retrograde	5944 Feb 22 13:15	22°MJ15'34		retrograde	5952 Mar 13 05:54	11° <b>×7</b> 26'21	10 10 20
opposition	5944 May 09 12:57	20°M55'36	16°03'42	opposition	5952 May 28 16:24	10°×704'06	17°23'15
	•		30.78595 AU		•		
min. Earth dist.	5944 May 12 00:59		30.78595 AU	min. Earth dist.	5952 May 30 15:21		29.49915 AU
direct	5944 Jul 28 04:01	19°M33'01		direct	5952 Aug 16 04:05	8° <b>≯</b> 38'58	
max. Earth dist.	5944 Nov 09 14:30	21°IIL58'27	32.61607 AU	max. Earth dist.	5952 Nov 29 21:15	11°×'15'09	31.35174 AU
conjunction	5944 Nov 12 07:49	22°MJ04'30	15°12'47	conjunction	5952 Dec 01 23:33	11° <b>∡</b> ¹20'06	16°19'03
minimum elong	5944 Nov 12 07:31	22°ML04'29	15°12'48	minimum elong	5952 Dec 01 23:28	11° <b>×</b> <sup>2</sup> 20'06	16°19'04
retrograde	5945 Feb 24 04:32	24°M33'20	13 12 40	retrograde	5953 Mar 16 00:41	13° <b>×</b> <sup>7</sup> 57'28	10 17 04
•			16°18'52	•		13 × 37 28 12° × 35'03	17°25'34
opposition	5945 May 12 01:42	23°M13'01		opposition	5953 May 31 11:12		
min. Earth dist.	5945 May 14 11:43		30.59681 AU	min. Earth dist.	5953 Jun 02 09:13		29.37925 AU
direct	5945 Jul 30 17:16	21°M50'01		direct	5953 Aug 18 20:04	11° <b>∡</b> *09'46 −	
max. Earth dist.	5945 Nov 12 05:35	24°¶L16'49	32.42785 AU	max. Earth dist.	5953 Dec 02 18:41	13° <b>х'</b> 46'59	31.23616 AU
conjunction	5945 Nov 14 22:27	24°M22'53	15°26'06	conjunction	5953 Dec 04 18:58	13° <b>∡</b> 751'46	16°20'05
minimum elong	5945 Nov 14 22:09	24°M22'51	15°26'08	minimum elong	5953 Dec 04 18:56	13° <b>х</b> 51'45	16°20'07
retrograde	5946 Feb 26 20:19	26°M52'57	13 20 00	retrograde	5954 Mar 18 20:14	16°×729'54	10 2007
•		25°M32'16	16°32'43	opposition		15° × 07'20	17°26'00
opposition	5946 May 14 15:18				5954 Jun 03 06:25		
min. Earth dist.	5946 May 17 01:13		30.41432 AU	min. Earth dist.	5954 Jun 05 01:37		29.26827 AU
direct	5946 Aug 02 05:55	24°M08'52		direct	5954 Aug 21 15:55	13° <b>∡</b> ⁴41'53	
max. Earth dist.	5946 Nov 14 23:36	26°M37'12	32.24690 AU	max. Earth dist.	5954 Dec 05 16:42	16° <b>≯</b> ′20′03	31.12962 AU
conjunction	5946 Nov 17 13:56	26°M43'05	15°38'08	conjunction	5954 Dec 07 15:04	16° <b>₹</b> 24'39	16°19'22
minimum elong	5946 Nov 17 13:40	26°M43'03	15°38'09	minimum elong	5954 Dec 07 15:02	16° <b>×</b> <sup>2</sup> 124'39	16°19'23
retrograde	5947 Mar 01 12:33	20 IIL43 03 29°M14'20	15 5007	retrograde	5955 Mar 21 15:10	10 <b>x</b> 24 39 19° <b>x</b> 03'28	10 1/23
opposition		29 IL14 20 27°M53'18	16045!11	opposition	5955 Jun 06 02:13	19 <b>x</b> ·03 28 17° <b>x</b> <sup>7</sup> 40'45	17924122
**	5947 May 17 05:30		16°45'11	**			17°24'32
min. Earth dist.	5947 May 19 13:22		30.23919 AU	min. Earth dist.	5955 Jun 07 20:33		29.16615 AU
direct	5947 Aug 04 21:41	26°M29'31		direct	5955 Aug 24 10:52	16° <b>∡</b> 15′09	
max. Earth dist.	5947 Nov 17 16:19	28°M59'10	32.07395 AU	max. Earth dist.	5955 Dec 08 15:45	18° <b>≯</b> 54'13	31.03241 AU
conjunction	5947 Nov 20 06:01	29°M05'02	15°48'49	conjunction	5955 Dec 10 11:29	18° <b>∡</b> 758'34	16°16'51
minimum elong	5947 Nov 20 05:46	29°M05'00	15°48'52	minimum elong	5955 Dec 10 11:31	18° 🖈 58'34	16°16'53
minimum ciong	5947 Nov 20 03:46 5947 Dec 14 20:20	29 IIC03 00 0° <b>√</b>	10 70 04	retrograde	5956 Mar 23 11:49	21° <b>×</b> 38 34	10 10 33
	J741 DCC 14 20.20	υ <b>χ</b> .		renograde	3730 WIAI 23 11.49	21 X 3/30	

•,•	5056 1 07 22 21	200 71505 17021100		50(4X 00 1(00	0074040
opposition	5956 Jun 07 22:31	20° ₹15'05 17°21'08	Č	5964 Jan 02 16:28	9° <b>る</b> 49'18
min. Earth dist.	5956 Jun 09 13:56	20° <b>₹</b> 12'18 29.07297	· ·	5964 Apr 13 06:58	12° <b>る</b> 23'57
direct	5956 Aug 26 08:09	18° <b>∡</b> ′49'20	opposition	5964 Jun 29 00:56	11° <b>る</b> 00'47 15°42'14
max. Earth dist.	5956 Dec 10 13:59	21° <b>₹</b> 29'06 30.94454		5964 Jun 29 20:07	10°る59'26 28.70601 AU
			direct	5964 Sep 16 15:48	9° <b>る</b> 34'58
conjunction	5956 Dec 12 08:00	21° <b>₹</b> 33'18 16°12'33	evening set	5964 Dec 29 06:58	12° <b>る</b> 09'37
minimum elong	5956 Dec 12 08:02	21° <b>尽</b> 33'18 16°12'34	max. Earth dist.	5965 Jan 01 11:32	12°る17'19 30.63956 AU
retrograde	5957 Mar 26 07:55	24° <b>尽</b> 13′08			
opposition	5957 Jun 10 19:17	22° <b>尽</b> 50′09 17°15′46	conjunction	5965 Jan 02 05:23	12° <b>る</b> 19'07 14°31'38
min. Earth dist.	5957 Jun 12 09:21	22° <b>∡</b> ′47′27 28.98913	AU minimum elong	5965 Jan 02 05:41	12°る19'08 14°31'40
direct	5957 Aug 29 04:03	21° <b>₹</b> ′24′16	morning rise	5965 Jan 06 04:15	12° <b>る</b> 28'38
max. Earth dist.	5957 Dec 13 14:15	24° <b>₹</b> 04'46 30.86655	AU retrograde	5965 Apr 16 03:19	14° <b>る</b> 59'02
			opposition	5965 Jul 01 22:19	13° <b>る</b> 35'59 15°21'06
conjunction	5957 Dec 15 04:51	24° <b>✗</b> ¹08'38 16°06'24	min. Earth dist.	5965 Jul 02 13:34	13°る34'55 28.71284 AU
minimum elong	5957 Dec 15 04:58	24° <b>₹</b> '08'39 16°06'27	direct	5965 Sep 19 14:03	12° <b>る</b> 10'20
retrograde	5958 Mar 29 04:16	26° <b>₹</b> ¹48'48	evening set	5965 Dec 30 22:05	14° <b>る</b> 41'42
opposition	5958 Jun 13 16:07	25° <b>₹</b> 25'42 17°08'26		5966 Jan 04 10:58	14°る52'37 30.65516 AU
min. Earth dist.	5958 Jun 15 03:30	25° <b>₹</b> 23'11 28.91491			
direct	5958 Sep 01 03:28	23° <b>×</b> 759'43	conjunction	5966 Jan 05 01:24	14°る54'04 14°11'01
max. Earth dist.	5958 Dec 16 12:43	26° <b>х</b> 40'39 30.79877	v	5966 Jan 05 01:46	14°る54'06 14°11'03
max. Lartii dist.	3736 Dec 10 12.43	20 🗡 4037 30.17611	morning rise	5966 Jan 10 05:07	15°る06'28
agnismation	5050 Dag 10 01:44	26° <b>₹</b> '44'22 15°58'25	_		17° <b>ප</b> 33'36
conjunction	5958 Dec 18 01:44		Ü	5966 Apr 18 21:10 5966 Jul 04 19:33	
minimum elong	5958 Dec 18 01:51		- F F		· ·
retrograde	5959 Apr 01 01:08	29° <b>x</b> <sup>7</sup> 24'46	min. Earth dist.	5966 Jul 05 09:06	16°る09'45 28.73074 AU
opposition	5959 Jun 16 13:20	28° <b>х</b> 01'33 16°59'04		5966 Sep 22 10:59	14° <b>ろ</b> 45'16
min. Earth dist.	5959 Jun 17 22:32	27° 🗷 59'12 28.85103	AU evening set	5967 Jan 01 17:39	17°る13'42
direct	5959 Sep 04 00:42	26° <b>₹</b> 35'29			
		_	conjunction	5967 Jan 07 21:06	17° <b>ප්</b> 28'27 13°48'49
conjunction	5959 Dec 20 22:40	29° <b>₹</b> 20'18 15°48'33	minimum elong	5967 Jan 07 21:27	17°る28'30 13°48'51
minimum elong	5959 Dec 20 22:51	29° <b>₹</b> 20'20 15°48'35	max. Earth dist.	5967 Jan 07 09:24	17° <b>る</b> 27'17 30.68184 AU
max. Earth dist.	5959 Dec 19 13:38	29° <b>√</b> 16'59 30.74189	AU morning rise	5967 Jan 14 00:50	17° <b>る</b> 43'14
	5960 Jan 06 13:02	0°ප	retrograde	5967 Apr 21 16:48	20° <b>ろ</b> 07'31
retrograde	5960 Apr 02 21:13	2° <b>る</b> 00'50	opposition	5967 Jul 07 16:37	18° <b>る</b> 44'47 14°33'39
opposition	5960 Jun 18 10:46	0°る37'33 16°47'42	min. Earth dist.	5967 Jul 08 02:34	18°る44'05 28.75919 AU
min. Earth dist.	5960 Jun 19 17:19	0°る35'23 28.79797	AU direct	5967 Sep 25 08:55	17° <b>る</b> 19'33
	5960 Jul 11 07:16	30°R <b>✓</b>	evening set	5968 Jan 03 15:28	19° <b>る</b> 45'16
direct	5960 Sep 05 23:42	29° <b>√</b> 11′26			
	5960 Oct 30 06:07	0° <b>ප</b>	conjunction	5968 Jan 10 16:22	20° <b>පි</b> 02'06 13°25'07
			minimum elong	5968 Jan 10 16:44	20° <b>ප්</b> 02'08 13°25'09
conjunction	5960 Dec 22 19:25	1°る56'19 15°36'50	max. Earth dist.	5968 Jan 10 07:25	20°る01'13 30.71894 AU
minimum elong	5960 Dec 22 19:36	1°る56'20 15°36'52	morning rise	5968 Jan 17 17:29	20° <b>る</b> 18'57
max. Earth dist.	5960 Dec 21 12:20	1°る53'11 30.69664	Č	5968 Apr 23 10:23	22° <b>る</b> 40'37
retrograde	5961 Apr 05 19:10	4° <b>る</b> 36'53	opposition	5968 Jul 09 13:32	21°る18'02 14°07'31
opposition	5961 Jun 21 08:14	3° <b>ට</b> 13'33 16°34'18		5968 Jul 09 21:31	21°る17'29 28.79796 AU
min. Earth dist.	5961 Jun 22 11:32	3° <b>ප</b> 11'37 28.75675		5968 Sep 27 05:00	19°る53'01
direct	5961 Sep 08 22:01	1°る47'25	evening set	5969 Jan 04 15:04	22°る16'09
direct	ээот <del>эср</del> оо 22.01	1 04/23	evening set	3707 Juli 04 13.04	22 0100)
conjunction	5961 Dec 25 16:11	4°る32'16 15°23'15	conjunction	5969 Jan 12 11:17	22° <b>ප</b> 34'50 13°00'00
minimum elong	5961 Dec 25 16:25	4°ස32'17 15°23'16	v	5969 Jan 12 11:39	22°る34'52 13°00'03
max. Earth dist.	5961 Dec 24 13:25	4°る29'34 30.66368		5969 Jan 12 05:35	22°る34'16 30.76642 AU
		4 82934 30.00308 7° <b>る</b> 12'48		5969 Jan 20 07:32	22°る53'32
retrograde	5962 Apr 08 14:04	7 81248 5° <b>8</b> 49'28 16°18'54	morning rise		25° <b>ට</b> 12'41
opposition	5962 Jun 24 05:52		· ·	5969 Apr 26 03:39	
min. Earth dist.	5962 Jun 25 06:50	5°る47'42 28.72759		5969 Jul 12 09:56	23°る50'17 13°39'54
direct	5962 Sep 11 20:25	4° <b>る</b> 23'24	min. Earth dist.	5969 Jul 12 14:44	23° <b>る</b> 49'57 28.84672 AU
	50(2 D 20 12 15	70-70000 15005:::	direct	5969 Sep 30 04:03	22°る25'29
conjunction	5962 Dec 28 12:46	7°る08'06 15°07'49	Č	5970 Jan 06 15:36	24° <b>る</b> 46'06
minimum elong	5962 Dec 28 13:01	7°る08'07 15°07'50			
max. Earth dist.	5962 Dec 27 12:15	7° <b>る</b> 05'38 30.64332	•	5970 Jan 15 05:34	25° <b>る</b> 06'28 12°33'34
retrograde	5963 Apr 11 11:27	9° <b>る</b> 48'30	minimum elong	5970 Jan 15 05:58	25° <b>る</b> 06'30 12°33'35
opposition	5963 Jun 27 03:16	8° <b>궁</b> 25'14 16°01'31	max. Earth dist.	5970 Jan 15 01:59	25° <b>る</b> 06'07 30.82386 AU
min. Earth dist.	5963 Jun 28 00:27	8° <b>る</b> 23'44 28.71080	Č	5970 Jan 23 19:37	25° <b>る</b> 26'50
direct	5963 Sep 14 18:36	6° <b>ප</b> 59'15	retrograde	5970 Apr 28 21:24	27° <b>る</b> 43'35
evening set	5963 Dec 29 02:44	9° <b>ප</b> 38'15	opposition	5970 Jul 15 05:58	26° <b>පි</b> 21'20 13°10'54
			min. Earth dist.	5970 Jul 15 08:13	26°る21'11 28.90548 AU
conjunction	5963 Dec 31 09:19	9° <b>ප්</b> 43'45 14°50'35	direct	5970 Oct 03 00:00	24°る56'46
minimum elong	5963 Dec 31 09:38	9° <b>ප්</b> 43'47 14°50'37	evening set	5971 Jan 08 17:01	27° <b>る</b> 14'57
max. Earth dist.	5963 Dec 30 12:55	9° <b>ප්</b> 41'42 30.63537	AU		

	5071 1 17 22 26	270=226140	12005152	E d Ed	5077 F 1 01 12 44	12007150	21.51062.411
conjunction	5971 Jan 17 23:26	27°₹36'49	12°05'53	max. Earth dist.	5977 Feb 01 13:44		31.51963 AU
minimum elong	5971 Jan 17 23:49	27° <b>පි</b> 36'51	12°05'55	morning rise	5977 Feb 13 05:51	12° <b>≈</b> 34'32	
max. Earth dist.	5971 Jan 17 23:28	27° <b>℃</b> 36'49	30.89132 AU	retrograde	5977 May 15 05:09	14° <b>≈</b> 36′36	
morning rise	5971 Jan 27 05:38	27° <b>る</b> 58'42		opposition	5977 Aug 01 10:32	13° <b>≈</b> 15'56	9°16'59
	5971 Apr 04 05:59	0° <b>≈</b>		min. Earth dist.	5977 Jul 31 16:37	13° <b>≈</b> 17′08	29.61300 AU
retrograde	5971 May 01 13:17	0° <b>≈</b> 13'07		direct	5977 Oct 20 16:23	11° <b>≈</b> 53'30	
	5971 May 29 15:38	30°R₹		evening set	5978 Jan 21 12:39	13°≈56'28	
opposition	5971 Jul 18 01:29	28° <b>る</b> 51'02	12°40'37	C			
min. Earth dist.	5971 Jul 18 01:08		28.97411 AU	conjunction	5978 Feb 03 08:50	14° <b>≈</b> 25'30	8°24'40
direct	5971 Oct 05 21:29	27°₹26'42	20.57 111 110	minimum elong	5978 Feb 03 09:09	14°≈25'32	
	5972 Jan 10 18:59	27 <b>3</b> 20 <b>4</b> 2 29 <b>3</b> 42 29		max. Earth dist.	5978 Feb 04 05:15		31.66123 AU
evening set							31.00123 AU
	5972 Jan 18 06:04	0° <b>≈</b>		morning rise	5978 Feb 16 04:21	14°≈54'28	
					5978 Feb 18 16:02	15° <b>≈</b>	
conjunction	5972 Jan 20 16:30	0° <b>≈</b> 05'44	11°37'03	retrograde	5978 May 17 16:58	16° <b>≈</b> 54'45	
minimum elong	5972 Jan 20 16:54	0° <b>≈</b> 05'47	11°37'04	min. Earth dist.	5978 Aug 03 04:34	15° <b>≈</b> 35'50	29.75583 AU
max. Earth dist.	5972 Jan 20 18:27	0° <b>≈</b> 05'56	30.96892 AU	opposition	5978 Aug 04 01:47	15° <b>≈</b> 34'25	8°40'24
morning rise	5972 Jan 30 13:58	0° <b>≈</b> 28'59			5978 Aug 26 06:35	15°R <b>≈</b>	
retrograde	5972 May 03 07:03	2°≈41'09		direct	5978 Oct 23 09:32	14°≈12'23	
opposition	5972 Jul 19 20:31	1°≈19'14	12°09'07		5978 Dec 17 13:16	15° <b>≈</b>	
min. Earth dist.	5972 Jul 19 16:50		29.05324 AU	evening set	5979 Jan 23 16:16	16°≈13'28	
min. Darm dist.	5972 Sep 20 12:39	30°R₹	27.0032.110	evening sec	2575 0411 25 10:10	10 10 12 20	
dimont	5972 Oct 07 18:24	29°る55'08		agnismation	5070 Eab 05 21:07	1690042107	7°50'19
direct				conjunction	5979 Feb 05 21:07	16°≈43'07	
	5972 Oct 24 20:51	0° <b>≈</b>		minimum elong	5979 Feb 05 21:26	16°≈43'08	7°50'20
evening set	5973 Jan 11 21:08	2° <b>≈</b> 08'36		max. Earth dist.	5979 Feb 06 20:00		31.81155 AU
				morning rise	5979 Feb 19 01:24	17° <b>≈</b> 12'41	
conjunction	5973 Jan 22 08:55	2° <b>≈</b> 33'06	11°07'08	retrograde	5979 May 20 04:22	19° <b>≈</b> 11'17	
minimum elong	5973 Jan 22 09:18	2° <b>≈</b> 33'08	11°07'10	opposition	5979 Aug 06 16:31	17° <b>≈</b> 51'15	8°03'23
max. Earth dist.	5973 Jan 22 15:03	2° <b>≈</b> 33'42	31.05709 AU	min. Earth dist.	5979 Aug 05 17:10	17° <b>≈</b> 52'48	29.90743 AU
morning rise	5973 Feb 01 20:16	2° <b>≈</b> 57'34		direct	5979 Oct 25 23:17	16° <b>≈</b> 29'38	
retrograde	5973 May 05 21:17	5°≈07'34		evening set	5980 Jan 25 20:02	18° <b>≈</b> 28'55	
opposition	5973 Jul 22 15:02	3°≈45'50	11°36'30	C			
min. Earth dist.	5973 Jul 22 09:06	3°≈46'14	29.14308 AU	conjunction	5980 Feb 08 08:53	18° <b>≈</b> 59'04	7°15'34
direct	5973 Oct 10 15:07	2°≈22'00	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	5980 Feb 08 09:11	18° <b>≈</b> 59'06	7°15'34
evening set	5974 Jan 13 23:52	4°≈33'13		max. Earth dist.	5980 Feb 09 10:36		31.97013 AU
evening set	3974 Jan 13 23.32	4 ~33 13		morning rise		19°≈29'10	31.97013 AO
	5074 1 25 00 26	4050150	10027114	Č	5980 Feb 21 20:55		
conjunction	5974 Jan 25 00:36	4°≈58'50	10°36'14	retrograde	5980 May 21 14:02	21°≈26'07	20.06601.477
minimum elong	5974 Jan 25 00:59	4°≈58'52	10°36'15	min. Earth dist.	5980 Aug 07 04:49		30.06691 AU
max. Earth dist.	5974 Jan 25 08:49	4° <b>≈</b> 59'38	31.15623 AU	opposition	5980 Aug 08 06:35	20°≈06′25	7°26'00
morning rise	5974 Feb 05 01:05	5° <b>≈</b> 24'25		direct	5980 Oct 27 15:34	18° <b>≈</b> 45′12	
retrograde	5974 May 08 13:18	7° <b>≈</b> 32'18		evening set	5981 Jan 26 23:49	20° <b>≈</b> 42'44	
opposition	5974 Jul 25 08:39	6° <b>≈</b> 10'47	11°02'52				
min. Earth dist.	5974 Jul 24 22:42	6°≈11'28	29.24415 AU	conjunction	5981 Feb 09 19:43	21° <b>≈</b> 13′20	6°40'32
direct	5974 Oct 13 10:13	4°≈47'15		minimum elong	5981 Feb 09 19:59	21°≈13'21	6°40'34
evening set	5975 Jan 16 02:45	6°≈56'18		max. Earth dist.	5981 Feb 10 22:52	21°≈15'51	32.13603 AU
<b>3</b>				morning rise	5981 Feb 23 15:04	21° <b>≈</b> 43'52	
conjunction	5975 Jan 27 15:48	7°≈22'56	10°04'26	retrograde	5981 May 24 01:10	23°≈39'15	
minimum elong	5975 Jan 27 16:10	7°≈22'58	10°04'28	opposition	5981 Aug 10 19:56	22°≈19'53	6010122
max. Earth dist.					•		
	5975 Jan 28 04:04		31.26650 AU	min. Earth dist.	5981 Aug 09 15:38		30.23377 AU
morning rise	5975 Feb 08 04:17	7°≈49'31		direct	5981 Oct 30 04:23	20°≈59'03	
retrograde	5975 May 11 03:09	9° <b>≈</b> 55'23		evening set	5982 Jan 29 03:39	22° <b>≈</b> 54'55	
opposition	5975 Jul 28 02:00	8° <b>≈</b> 34'07	10°28'20				
min. Earth dist.	5975 Jul 27 13:58	8° <b>≈</b> 34'56	29.35639 AU	conjunction	5982 Feb 12 06:08	23° <b>≈</b> 25'52	
direct	5975 Oct 16 05:35	7° <b>≈</b> 10'56		minimum elong	5982 Feb 12 06:23	23° <b>≈</b> 25'53	6°05'18
evening set	5976 Jan 18 05:54	9° <b>≈</b> 17'52		max. Earth dist.	5982 Feb 13 12:16	23° <b>≈</b> 28'39	32.30876 AU
				morning rise	5982 Feb 26 07:42	23° <b>≈</b> 56'45	
conjunction	5976 Jan 30 06:04	9° <b>≈</b> 45'24	9°31'50	retrograde	5982 May 26 09:29	25° <b>≈</b> 50'38	
minimum elong	5976 Jan 30 06:25	9° <b>≈</b> 45'26	9°31'51	min. Earth dist.	5982 Aug 12 02:51	24°≈33'30	30.40724 AU
max. Earth dist.	5976 Jan 30 20:35		31.38787 AU	opposition	5982 Aug 13 08:31	24° <b>≈</b> 31'34	
morning rise	5976 Feb 11 05:47	10°≈12'52	21.55/0/110	direct	5982 Nov 01 18:19	23°≈11′08	0 1001
retrograde	5976 May 12 17:54	10 ≈12 32 12°≈16'48		evening set	5983 Jan 31 07:38	25°≈05'23	
•	•		0052100	evening set	2702 Jan 21 U/.38	∠J <b>~</b> UJ ∠ <b>J</b>	
opposition	5976 Jul 29 18:34	10°≈55'49			5000 F 1 14 15 55	250 255=	5000156
min. Earth dist.	5976 Jul 29 02:29		29.47953 AU	conjunction	5983 Feb 14 15:39	25°≈36'37	5°29'56
direct	5976 Oct 18 00:19	9° <b>≈</b> 33'00		minimum elong	5983 Feb 14 15:53	25° <b>≈</b> 36'38	
evening set	5977 Jan 19 09:09	11° <b>≈</b> 37'55		max. Earth dist.	5983 Feb 15 22:45	25° <b>≈</b> 39'27	32.48780 AU
				morning rise	5983 Feb 28 23:06	26° <b>≈</b> 07'47	
conjunction	5977 Jan 31 19:48	12° <b>≈</b> 06′15	8°58'33	retrograde	5983 May 28 19:53	28° <b>≈</b> 00′12	
minimum elong	5977 Jan 31 20:09	12° <b>≈</b> 06′17	8°58'35	min. Earth dist.	5983 Aug 14 11:43	26° <b>≈</b> 43'34	30.58722 AU

annagition	5002 Aug 15 20:26	26° <b>≈</b> 41'27	5922147	avanina aat	5000 Eak 12 07:24	9° <b>¥</b> 29'50	
opposition	5983 Aug 15 20:26		5-3241	evening set	5990 Feb 13 07:24	9° <b>K</b> 29'30	
direct	5983 Nov 04 07:17	25°≈21'24			5000 E-1 20 12:10	10° <b>₩</b> 01'16	1924122
evening set	5984 Feb 02 11:14	27° <b>≈</b> 14′05		conjunction	5990 Feb 28 13:19		
	5004E1 17 00 25	270 - 45122	405.412.2	minimum elong	5990 Feb 28 13:22	10° <b>米</b> 01′16	
conjunction	5984 Feb 17 00:25	27°≈45'32		max. Earth dist.	5990 Mar 02 10:59		33.92157 AU
minimum elong	5984 Feb 17 00:37	27°≈45'33	4°54'32	morning rise	5990 Mar 15 18:53	10° <b>)</b> 32'39	
max. Earth dist.	5984 Feb 18 10:40		32.67299 AU	retrograde	5990 Jun 11 10:59	12° <b>)</b> 16'48	
morning rise	5984 Mar 02 12:45	28°≈16'54		min. Earth dist.	5990 Aug 28 11:50		32.03432 AU
_	5984 May 07 21:24	0° <b>∀</b>		opposition	5990 Aug 30 11:22	11° <b>米</b> 00′22	1°11'45
retrograde	5984 May 30 03:48	0° <b>)</b> €07'56		direct	5990 Nov 19 05:53	9° <b>)</b> 43′11	
	5984 Jun 21 18:47	30° <b>R</b> ≈		evening set	5991 Feb 15 10:22	11° <b>¥</b> 26′54	
min. Earth dist.	5984 Aug 15 21:54	28°≈51'40					
opposition	5984 Aug 17 07:46	28° <b>≈</b> 49'29	4°54'56	conjunction	5991 Mar 02 17:15	11° <b>¥</b> 58'10	0°50'30
direct	5984 Nov 05 21:10	27°≈29'49		minimum elong	5991 Mar 02 17:17	11° <b>¥</b> 58'10	
evening set	5985 Feb 03 14:55	29° <b>≈</b> 21'00		max. Earth dist.	5991 Mar 04 17:38		34.15039 AU
	5005 5 1 10 00 00	200 52125	101.010.0	morning rise	5991 Mar 17 23:31	12° <b>)</b> € 29'22	
conjunction	5985 Feb 18 08:22	29° <b>≈</b> 52'35	4°19'08	retrograde	5991 Jun 13 13:51	14° <b>¥</b> 12'37	
minimum elong	5985 Feb 18 08:32	29°≈52'36	4°19'10	min. Earth dist.	5991 Aug 30 17:31		32.26491 AU
max. Earth dist.	5985 Feb 19 19:50		32.86454 AU	opposition	5991 Sep 01 17:46	12° <b>¥</b> 56'32	0°35'45
	5985 Feb 21 18:51	0° <b>∀</b>		direct	5991 Nov 21 12:10	11° <b>)</b> 39'47	
morning rise	5985 Mar 05 01:10	0° <b>¥</b> 24'05		evening set	5992 Feb 17 13:15	13° <b>¥</b> 22'30	
retrograde	5985 Jun 01 12:09	2° <b>)</b> 13'48					
min. Earth dist.	5985 Aug 18 04:58		30.96668 AU	conjunction	5992 Mar 03 20:20	13° <b>¥</b> 53'32	
opposition	5985 Aug 19 17:59		4°17'11	minimum elong	5992 Mar 03 20:20	13° <b>¥</b> 53'32	
	5985 Sep 28 19:57	30°R≈		max. Earth dist.	5992 Mar 05 21:15		34.38327 AU
direct	5985 Nov 08 09:35	29°≈36'21		morning rise	5992 Mar 19 03:07	14° <b>)</b> € 24'32	
	5985 Dec 17 14:54	0° <b>\</b>		retrograde	5992 Jun 14 18:33	16° <b>¥</b> 06'55	22 40041 411
evening set	5986 Feb 05 18:25	1° <b>¥</b> 26′07		min. Earth dist.	5992 Aug 31 20:35		32.49941 AU
	5006 E 1 20 15 26	101/57146	20.42150	opposition	5992 Sep 02 23:24	14° <b>)</b> 51'11	0°00'14
conjunction	5986 Feb 20 15:36	1° <b>¥</b> 57'46	3°43'50	desc. node	5992 Sep 05 09:53	14° <b>)</b> 47'36	
minimum elong max. Earth dist.	5986 Feb 20 15:45 5986 Feb 22 05:48	1° <b>¥</b> 57'47	3°43'50 33.06262 AU	direct evening set	5992 Nov 22 18:26	13° <b>)</b> 34′52 15° <b>)</b> 16′36	
morning rise	5986 Mar 07 12:06	2° <del>X</del> 0111 2° <del>X</del> 29'22	33.00202 AU	evening set	5993 Feb 18 16:06	13 7(1030	
retrograde	5986 Jun 03 16:54	2 <b>X</b> 29 22 4° <b>¥</b> 17'49		conjunction	5993 Mar 05 23:04	15° <b>¥</b> 47'23	0016124
min. Earth dist.	5986 Aug 20 13:21		31.16679 AU	minimum elong	5993 Mar 05 23:03	15° <b>X</b> 47'23	
opposition	5986 Aug 22 03:46	2° <b>¥</b> 59'58		max. Earth dist.	5993 Mar 08 02:11		34.61935 AU
direct	5986 Nov 10 20:25	1° <b>H</b> 41'04	3 3733	morning rise	5993 Mar 21 05:39	16° <b>X</b> 18'09	54.01755 AC
evening set	5987 Feb 07 21:47	3° <b>¥</b> 29′29		retrograde	5993 Jun 16 21:19	17° <b>)</b> 59'42	
evening set	3707100 07 21.47	3 1(2)2)		min. Earth dist.	5993 Sep 03 01:18		32.73701 AU
conjunction	5987 Feb 22 22:03	4° <b>₩</b> 01'09	3°08'39	opposition	5993 Sep 05 04:23	16° <b>)</b> 44'19	
minimum elong	5987 Feb 22 22:10	4° <b>₩</b> 01'10		direct	5993 Nov 25 01:12	15° <b>)</b> €28'24	0 2
max. Earth dist.	5987 Feb 24 14:13		33.26764 AU	evening set	5994 Feb 20 18:51	17° <b>)</b> 09'14	
morning rise	5987 Mar 09 21:36	4° <b>)</b> €32'46	33.20701110	evening sec	237.100 20 10.01	1, 7(0) 1.	
retrograde	5987 Jun 05 21:27	6° <b>¥</b> 20′02		conjunction	5994 Mar 08 01:11	17° <b>)</b> 39'43	-0°49'07
min. Earth dist.	5987 Aug 22 19:26		31.37391 AU	minimum elong	5994 Mar 08 01:09	17° <b>)</b> 39'43	
opposition	5987 Aug 24 12:42	5° <b>)</b> €02'31		max. Earth dist.	5994 Mar 10 04:45		34.85804 AU
direct	5987 Nov 13 07:51	3° <b>)</b> 44′02		morning rise	5994 Mar 23 07:12	18° <b>¥</b> 10'11	
evening set	5988 Feb 10 01:09	5° <b>¥</b> 31'10		retrograde	5994 Jun 18 23:28	19° <b>¥</b> 50'58	
Č				min. Earth dist.	5994 Sep 05 03:45	18° <b>¥</b> 39′07	32.97692 AU
conjunction	5988 Feb 25 03:48	6° <b>₩</b> 02'49	2°33'41	opposition	5994 Sep 07 08:43	18° <b>¥</b> 35'54	
minimum elong	5988 Feb 25 03:55	6° <b>)</b> 02'49	2°33'41	direct	5994 Nov 27 07:45	17° <b>∺</b> 20′22	
max. Earth dist.	5988 Feb 26 22:00	6° <b>₩</b> 06'32	33.47941 AU	evening set	5995 Feb 22 21:27	19° <b>₩</b> 00'19	
morning rise	5988 Mar 11 05:58	6° <b>¥</b> 34'24		C			
retrograde	5988 Jun 07 02:40	8° <b>¥</b> 20'34		conjunction	5995 Mar 10 02:37	19° <b>¥</b> 30′29	-1°21'21
min. Earth dist.	5988 Aug 24 01:39	7° <b>₩</b> 06'08	31.58808 AU	minimum elong	5995 Mar 10 02:34	19° <b>∺</b> 30′29	
opposition	5988 Aug 25 21:02	7° <b>∺</b> 03'24	2°25'00	max. Earth dist.	5995 Mar 12 07:20	19° <b>¥</b> 34'53	35.09853 AU
direct	5988 Nov 14 15:20	5° <b>¥</b> 45′20		morning rise	5995 Mar 25 07:38	20° <b>₩</b> 00'39	
evening set	5989 Feb 11 04:11	7° <b>¥</b> 31'16		retrograde	5995 Jun 20 23:02	21° <b>)</b> 40′40	
J				min. Earth dist.	5995 Sep 07 06:54		33.21884 AU
conjunction	5989 Feb 26 08:55	8° <b>₩</b> 02'50	1°58'58	opposition	5995 Sep 09 12:36	20° <b>∺</b> 25'54	
minimum elong	5989 Feb 26 09:00	8° <b>)</b> €02'50	1°58'59	direct	5995 Nov 29 12:20	19° <b>)</b> 10′45	
max. Earth dist.	5989 Feb 28 05:41	8° <b>)</b> €06'44	33.69771 AU	evening set	5996 Feb 24 23:46	20° <b>)</b> 49′51	
morning rise	5989 Mar 13 12:56	8° <b>¥</b> 34'21					
retrograde	5989 Jun 09 05:36	10° <b>∺</b> 19'28		conjunction	5996 Mar 11 03:34	21° <b>∺</b> 19'40	
min. Earth dist.	5989 Aug 26 07:27	9° <b>∺</b> 05'29	31.80840 AU	minimum elong	5996 Mar 11 03:30	21° <b>∺</b> 19'40	1°53'05
opposition	5989 Aug 28 04:35	9° <b>)</b> 02'40	1°48'11	max. Earth dist.	5996 Mar 13 09:39		35.34083 AU
direct	5989 Nov 17 00:41	7° <b>)</b> 45′03		morning rise	5996 Mar 26 07:02	21° <b>)</b> 49′28	

ratragrada	5996 Jun 21 20:53	23° <b>¥</b> 28'47	opposition	6002 Sep 21 21:21	2° <b>Ƴ</b> '33'15 -5°22'35
retrograde min. Earth dist.	5996 Sep 08 08:55	22° <b>H</b> 17'36 33.46251 AU		6002 Sep 21 21:21 6002 Dec 12 02:18	2 γ 33 13 -3 22 33 1° <b>Υ</b> 20'37
opposition	5996 Sep 10 15:39	22° <b>H</b> 14'19 -2°16'25	evening set	6003 Mar 09 10:06	2° <b>Υ</b> 55'12
direct	5996 Nov 30 18:07	20° <b>H</b> 59'30	evening set	0003 Mar 07 10.00	2   33 12
evening set	5997 Feb 26 01:55	22° <b>)</b> 37'48	conjunction	6003 Mar 23 16:52	3° <b>Υ</b> '21'54 -5°18'48
e venning sec	25577100 20 01.50	22 7(37 10	minimum elong	6003 Mar 23 16:43	3° <b>Υ</b> 21'53 5°18'48
conjunction	5997 Mar 13 03:41	23° <b>)</b> 07'14 -2°24'15	max. Earth dist.	6003 Mar 26 06:54	3° <b>Y</b> 26'46 37.09928 AU
minimum elong	5997 Mar 13 03:36	23° <b>)</b> (07'13 2°24'15	morning rise	6003 Apr 06 23:40	3° <b>Y</b> 48'37
max. Earth dist.	5997 Mar 15 10:10	23° <del>)(</del> 11'42 35.58479 AU	_	6003 Jul 04 06:46	5° <b>Y</b> ′24'18
morning rise	5997 Mar 28 05:29	23° <b>)</b> (36′40	min. Earth dist.	6003 Sep 21 05:36	4° <b>Υ</b> 15'35 35.23698 AU
retrograde	5997 Jun 23 21:06	25° <b>¥</b> 15'18	opposition	6003 Sep 23 20:24	4° <b>Υ</b> 11'57 -5°51'13
min. Earth dist.	5997 Sep 10 09:40	24° <b>米</b> 04′29 33.70835 AU		6003 Dec 14 03:29	2° <b>Y</b> '59'42
opposition	5997 Sep 12 18:06	24° <b>H</b> 01'06 -2°49'06	evening set	6004 Mar 10 10:59	4° <b>Υ</b> 33'50
direct	5997 Dec 02 19:55	22° <b>)</b> 46′38	•		
evening set	5998 Feb 28 03:44	24° <b>)</b> 24′10	conjunction	6004 Mar 24 13:17	5° <b>Y</b> '00'01 -5°45'42
			minimum elong	6004 Mar 24 13:06	5° <b>Y</b> '00'00 5°45'42
conjunction	5998 Mar 15 03:20	24° <b>)</b> 53'11 -2°54'51	max. Earth dist.	6004 Mar 27 03:22	5° <b>Y</b> 04'52 37.35810 AU
minimum elong	5998 Mar 15 03:14	24° <b>)</b> 53′11 2°54′52	morning rise	6004 Apr 07 15:59	5° <b>Y</b> 26'14
max. Earth dist.	5998 Mar 17 11:55	24° <b>)</b> 57'48 35.83088 AU	retrograde	6004 Jul 05 04:12	7° <b>Ƴ</b> 01'35
morning rise	5998 Mar 30 02:42	25° <b>¥</b> 22′13	min. Earth dist.	6004 Sep 22 02:48	5° <b>Ƴ</b> 53'15 35.49779 AU
retrograde	5998 Jun 25 18:56	27° <b>)</b> €00'15	opposition	6004 Sep 24 18:55	5° <b>Y</b> 49'33 -6°19'09
min. Earth dist.	5998 Sep 12 11:06	25° <b>)</b> 49'42 33.95657 AU	direct	6004 Dec 15 00:59	4° <b>Ƴ</b> 37'41
opposition	5998 Sep 14 19:52	25° <b>)</b> 46′19 -3°21′08	evening set	6005 Mar 12 11:31	6° <b>Ƴ</b> 11'23
direct	5998 Dec 04 23:11	24° <b>)</b> 32′11			
evening set	5999 Mar 02 05:30	26° <b>)</b> €09'01	conjunction	6005 Mar 26 09:24	6° <b>Ƴ</b> 37'03 -6°11'57
			minimum elong	6005 Mar 26 09:14	6° <b>Ƴ</b> 37'02 6°11'58
conjunction	5999 Mar 17 02:16	26° <b>)</b> 37'37 -3°24'53	max. Earth dist.	6005 Mar 29 01:05	6° <b>Ƴ</b> 41'59 37.61721 AU
minimum elong	5999 Mar 17 02:10	26° <b>)</b> 37'36 3°24'52	morning rise	6005 Apr 09 07:24	7° <b>Y</b> ′02'44
max. Earth dist.	5999 Mar 19 11:03	26° <b>)</b> 42′12 36.07953 AU	retrograde	6005 Jul 06 23:57	8° <b>Ƴ</b> 37'47
morning rise	5999 Mar 31 23:08	27° <b>)</b> €06'13	min. Earth dist.	6005 Sep 24 01:19	7° <b>Y</b> 29'43 35.75845 AU
retrograde	5999 Jun 27 19:27	28° <b>)</b> 43′41	opposition	6005 Sep 26 17:00	7° <b>Y</b> 26'04 -6°46'23
min. Earth dist.	5999 Sep 14 09:57	27° <b>)</b> 33'32 34.20774 AU	direct	6005 Dec 16 23:16	6° <b>Ƴ</b> 14'34
opposition	5999 Sep 16 21:07	27° <b>)</b> € 30'03 -3°52'31	evening set	6006 Mar 14 12:08	7° <b>Ƴ</b> 47'53
direct	5999 Dec 06 23:39	26° <b>¥</b> 16′15			
evening set	6000 Mar 03 06:51	27° <b>)</b> 52′27	conjunction	6006 Mar 28 04:59	8° <b>Y</b> 13'00 -6°37'34
			minimum elong	6006 Mar 28 04:47	8° <b>Y</b> 12'59 6°37'35
conjunction	6000 Mar 18 00:40	28° <b>升</b> 20'36 -3°54'18	max. Earth dist.	6006 Mar 30 19:58	8° <b>Ƴ</b> 17'51 37.87580 AU
minimum elong	6000 Mar 18 00:32	28° <b>)</b> € 20'36 3°54'18	morning rise	6006 Apr 10 22:12	8° <b>Y</b> 38'09
max. Earth dist.	6000 Mar 20 11:41	28° <b>∺</b> 25′20 36.33095 AU	retrograde	6006 Jul 08 22:03	10° <b>Y</b> 12'54
morning rise	6000 Apr 01 18:29	28° <b>¥</b> 48'45	min. Earth dist.	6006 Sep 25 21:24	9° <b>Ƴ</b> 05'11 36.01842 AU
	6000 May 16 18:14	$0^{\circ}\mathbf{\Upsilon}$	opposition	6006 Sep 28 14:29	9° <b>Y</b> 01'30 -7°12'56
retrograde	6000 Jun 28 18:30	0° <b>Y</b> 25'43	direct	6006 Dec 18 18:55	7° <b>Ƴ</b> 50'19
	6000 Aug 12 04:52	30° <b>₹</b> ₩	evening set	6007 Mar 16 12:30	9° <b>Ƴ</b> 23'17
min. Earth dist.	6000 Sep 15 10:23	29° <b>升</b> 15′52 34.46178 AU	ſ		
opposition	6000 Sep 17 21:52	29° <b>升</b> 12′22 -4°23′14	conjunction	6007 Mar 30 00:17	9° <b>Y</b> 47'51 -7°02'34
direct	6000 Dec 08 00:15	27° <b>¥</b> 58'58	minimum elong	6007 Mar 30 00:06	9° <b>Y</b> 47'50 7°02'35
evening set	6001 Mar 05 08:09	29° <b>)</b> 34′35	max. Earth dist.	6007 Apr 01 16:23	9° <b>Y</b> 52'44 38.13335 AU
	6001 Mar 18 18:19	$0$ ° $\Upsilon$	morning rise	6007 Apr 12 12:22	10° <b>Y</b> 12′26
			retrograde	6007 Jul 10 17:49	11° <b>Y</b> 46'56
conjunction	6001 Mar 19 22:36	0° <b>Υ</b> 02'15 -4°23'05	min. Earth dist.	6007 Sep 27 19:18	10° <b>Y</b> 39'26 36.27729 AU
minimum elong	6001 Mar 19 22:28	0° <b>Υ</b> 02'15 4°23'05	opposition	6007 Sep 30 11:45	10° <b>Ƴ</b> 35'48 -7°38'48
max. Earth dist.	6001 Mar 22 10:11	0° <b>Υ</b> 07'00 36.58509 AU		6007 Dec 20 15:22	9° <b>Ƴ</b> 24'57
morning rise	6001 Apr 03 13:06	0° <b>Ƴ</b> 29'57	evening set	6008 Mar 17 12:36	10° <b>Y</b> 57'33
retrograde	6001 Jun 30 15:34	2° <b>Y</b> 06′25			
min. Earth dist.	6001 Sep 17 08:17	0° <b>Υ</b> 57'00 34.71834 AU		6008 Mar 30 19:02	11° <b>Y</b> 21'33 -7°26'56
opposition	6001 Sep 19 21:43	0° <b>Υ</b> 53'25 -4°53'15	minimum elong	6008 Mar 30 18:49	11° <b>Y</b> 21'32 7°26'56
	6001 Nov 01 12:15	30° <b>₹</b> ₩	max. Earth dist.	6008 Apr 02 11:03	11° <b>Υ</b> 26'24 38.38968 AU
direct	6001 Dec 10 01:39	29° <b>)</b> € 40′23	morning rise	6008 Apr 13 01:42	11° <b>Y</b> 45'35
	6002 Jan 16 13:11	0° <b>Υ</b>	retrograde	6008 Jul 11 10:53	13° <b>Y</b> 19'47
evening set	6002 Mar 07 09:18	1° <b>Y</b> 15′28	min. Earth dist.	6008 Sep 28 14:52	12° <b>Y</b> 12'36 36.53478 AU
			opposition	6008 Oct 01 08:19	12° <b>Y</b> ′08'55 -8°04'00
conjunction	6002 Mar 21 19:59	1° <b>Y</b> 42'40 -4°51'16	direct	6008 Dec 21 14:53	10° <b>Y</b> 58′22
minimum elong	6002 Mar 21 19:50	1° <b>Y</b> 42'39 4°51'16	evening set	6009 Mar 19 12:36	12° <b>Y</b> 30'38
max. Earth dist.	6002 Mar 24 08:43	1° <b>Υ</b> 47'28 36.84133 AU			
morning rise	6002 Apr 05 06:55	2° <b>Υ</b> 09'53	conjunction	6009 Apr 01 13:19	12° <b>Υ</b> ′54'03 -7°50'39
retrograde	6002 Jul 02 12:03	3° <b>Y</b> 45′56	minimum elong	6009 Apr 01 13:07	12° <b>Υ</b> ′54'03 7°50'40
min. Earth dist.	6002 Sep 19 07:18	2° <b>Υ</b> 36'52 34.97702 AU	max. Earth dist.	6009 Apr 04 05:31	12° <b>Y</b> 58'54 38.64463 AU

morning rise retrograde min. Earth dist.	6009 Apr 14 14:32 6009 Jul 13 03:51 6009 Sep 30 10:45	13°Υ17'31 14°Υ51'28 13°Υ44'31 36.79134 AU	conjunction minimum elong max. Earth dist.	6016 Apr 11 09:20 6016 Apr 11 09:08 6016 Apr 14 04:50	23°Y10'35 -10°18'58 23°Y10'34 10°18'58 23°Y15'27 40.42361 AU
opposition direct	6009 Oct 03 04:19 6009 Dec 23 12:30	13° <b>Y</b> 40'50 -8°28'30 12° <b>Y</b> 30'34	morning rise retrograde	6016 Apr 22 12:59 6016 Jul 22 22:01	23° <b>Y</b> 29'47 25° <b>Y</b> 02'50
evening set	6010 Mar 21 12:15	14° <b>Υ</b> 02'31	min. Earth dist.	6016 Oct 10 15:26	23° <b>Υ</b> 57'44 38.58391 AU
			opposition	6016 Oct 13 12:29	23°Y53'58 -11°00'52
conjunction minimum elong	6010 Apr 03 07:14 6010 Apr 03 07:01	14° <b>Υ</b> 25'22 -8°13'45 14° <b>Υ</b> 25'21 8°13'46	direct evening set	6017 Jan 02 23:11 6017 Apr 02 04:46	22° <b>Y</b> 45'46 24° <b>Y</b> 16'26
max. Earth dist.	6010 Apr 06 00:27	14° <b>Υ</b> 30'15 38.89885 AU	evening set	0017 Прі 02 04.40	24   1020
morning rise	6010 Apr 16 02:25	14° <b>Y</b> 48′13	conjunction	6017 Apr 13 00:42	24° <b>Y</b> 34'59 -10°37'39
retrograde	6010 Jul 14 19:05	16° <b>Y</b> 21'58	minimum elong	6017 Apr 13 00:29	24° <b>Υ</b> '34'58 10°37'41
min. Earth dist. opposition	6010 Oct 02 06:14 6010 Oct 04 23:55	15° <b>Υ</b> 15'14 37.04730 AU 15° <b>Υ</b> 11'33 -8°52'19	max. Earth dist. morning rise	6017 Apr 15 21:09 6017 Apr 23 20:53	24° <b>Υ</b> 39'53 40.67554 AU 24° <b>Υ</b> 53'33
direct	6010 Dec 25 10:43	14° <b>Υ</b> 01'34	retrograde	6017 Jul 24 11:43	26° <b>Y</b> 26'35
evening set	6011 Mar 23 11:41	15° <b>Ƴ</b> 33'14	min. Earth dist.	6017 Oct 12 08:58	25° <b>Ƴ</b> 21'41 38.83688 AU
		1500055100 0005110	opposition	6017 Oct 15 05:07	25° <b>Y</b> 17'59 -11°20'00
conjunction minimum elong	6011 Apr 05 00:24 6011 Apr 05 00:11	15° <b>Υ</b> 55'28 -8°36'13 15° <b>Υ</b> 55'27 8°36'14	direct evening set	6018 Jan 04 17:29 6018 Apr 04 03:23	24°Υ10'05 25°Υ40'41
max. Earth dist.	6011 Apr 07 17:21	16° <b>Υ</b> 00'18 39.15276 AU	evening set	0018 Apr 04 03.23	23 14041
morning rise	6011 Apr 17 13:38	16° <b>Ƴ</b> 17'44	conjunction	6018 Apr 14 15:38	25° <b>Y</b> 58'35 -10°55'46
retrograde	6011 Jul 16 12:34	17° <b>Ƴ</b> 51'17	minimum elong	6018 Apr 14 15:25	25° <b>Y</b> ′58′34 10°55′47
min. Earth dist.	6011 Oct 03 23:59	16° <b>Y</b> 44′51 37.30343 AU	max. Earth dist.	6018 Apr 17 10:55	26° <b>Y</b> 03'23 40.92527 AU 26° <b>Y</b> 16'32
opposition direct	6011 Oct 06 19:06 6011 Dec 27 05:33	16° <b>Y</b> 41'07 -9°15'27 15° <b>Y</b> 31'24	morning rise retrograde	6018 Apr 25 04:18 6018 Jul 26 04:24	26° <b>Y</b> 16'32 27° <b>Y</b> 49'34
evening set	6012 Mar 24 10:55	17° <b>Y</b> 02'49	min. Earth dist.	6018 Oct 14 00:33	26° <b>Y</b> 44'57 39.08742 AU
			opposition	6018 Oct 16 21:34	26° <b>Ƴ</b> 41'14 -11°38'30
conjunction	6012 Apr 05 17:26	17° <b>Y</b> 24'27 -8°58'02	direct	6019 Jan 06 08:34	25° <b>Ƴ</b> 33'37
minimum elong	6012 Apr 05 17:13	17° <b>Υ</b> 24'26 8°58'02 17° <b>Υ</b> 29'23 39.40692 AU	evening set	6019 Apr 06 01:38	27° <b>Y</b> ′04'10
max. Earth dist. morning rise	6012 Apr 08 12:05 6012 Apr 18 00:16	17° <b>Y</b> 46′07	conjunction	6019 Apr 16 06:15	27° <b>Y</b> 21'25 -11°13'19
retrograde	6012 Jul 17 05:46	19° <b>Y</b> 19'31	minimum elong	6019 Apr 16 06:02	27° <b>Y</b> 21'24 11°13'20
min. Earth dist.	6012 Oct 04 19:01	18° <b>Ƴ</b> 13'17 37.55983 AU	max. Earth dist.	6019 Apr 19 02:17	27° <b>Y</b> 26'15 41.17218 AU
opposition	6012 Oct 07 13:46	18° <b>Y</b> 09'35 -9°37'53	morning rise	6019 Apr 26 11:13	27° <b>Y</b> 38'43
direct evening set	6012 Dec 27 23:59 6013 Mar 26 10:01	17° <b>Υ</b> 00'09 18° <b>Υ</b> 31'21	retrograde min. Earth dist.	6019 Jul 27 20:52 6019 Oct 15 18:02	29°Υ11'46 28°Υ07'19 39.33493 AU
evening set	0013 Wai 20 10.01	10   3121	opposition	6019 Oct 18 13:49	28° <b>Y</b> 03'41 -11°56'25
conjunction	6013 Apr 07 09:57	18° <b>Y</b> ′52′23 -9°19′12	direct	6020 Jan 07 23:24	26° <b>Y</b> 56′21
minimum elong	6013 Apr 07 09:44	18° <b>Y</b> 52'22 9°19'14	evening set	6020 Apr 07 00:04	28° <b>Y</b> 26′51
max. Earth dist. morning rise	6013 Apr 10 04:14	18° <b>Υ</b> '57'15 39.66143 AU 19° <b>Υ</b> '13'27	conjugation	6020 Apr. 16 20:42	28° <b>Ƴ</b> 43'28 -11°30'18
retrograde	6013 Apr 19 10:17 6013 Jul 19 00:17	20° <b>Y</b> 46'42	conjunction minimum elong	6020 Apr 16 20:42 6020 Apr 16 20:30	28°\cap43'27 11°30'19
min. Earth dist.	6013 Oct 06 11:38	19° <b>Y</b> 40'47 37.81645 AU	max. Earth dist.	6020 Apr 19 15:58	28° <b>Y</b> 48'12 41.41603 AU
opposition	6013 Oct 09 07:55	19° <b>Ƴ</b> 37'02 -9°59'38	morning rise	6020 Apr 26 17:37	29° <b>Y</b> 00′06
direct	6013 Dec 29 16:19	18° <b>Y</b> 27'54		6020 Jun 05 23:56	0° <b>8</b>
evening set	6014 Mar 28 08:52	19° <b>Ƴ</b> 58'55	retrograde	6020 Jul 28 11:06 6020 Sep 20 20:26	0°്833'10 30°̃Ŗ <b>Ƴ</b>
conjunction	6014 Apr 09 02:04	20° <b>Y</b> 19'20 -9°39'45	min. Earth dist.	6020 Oct 16 09:09	29° <b>Y</b> 28'57 39.57915 AU
minimum elong	6014 Apr 09 01:51	20° <b>Ƴ</b> 19'19 9°39'45	opposition	6020 Oct 19 05:24	29° <b>Y</b> 25'18 -12°13'44
max. Earth dist.	6014 Apr 11 21:19	20° <b>Y</b> 24'14 39.91592 AU	direct	6021 Jan 08 14:46	28° <b>Y</b> 18′13
morning rise	6014 Apr 20 19:45	20° <b>Y</b> 39'47 22° <b>Y</b> 12'57	evening set	6021 Apr 08 22:13	29° <b>Y</b> 48'42 0° <b>と</b>
retrograde min. Earth dist.	6014 Jul 20 16:18 6014 Oct 08 05:51	21° <b>Υ</b> 07'16 38.07302 AU		6021 Apr 15 16:13	0 0
opposition	6014 Oct 11 01:50	21° <b>Υ</b> '03'32 -10°20'42	conjunction	6021 Apr 18 10:42	0° <b>8</b> 04'40 -11°46'44
direct	6014 Dec 31 10:18	19° <b>Ƴ</b> 54'43	minimum elong	6021 Apr 18 10:29	0° <b>8</b> 04'39 11°46'46
evening set	6015 Mar 30 07:38	21° <b>Y</b> 25'36	max. Earth dist.	6021 Apr 21 05:32	0° <b>8</b> 09'20 41.65660 AU
conjunction	6015 Apr 10 17:58	21° <b>Y</b> '45'23 -9°59'40	morning rise retrograde	6021 Apr 27 23:34 6021 Jul 30 00:11	0° <b>と</b> 20'38 1° <b>と</b> 53'44
minimum elong	6015 Apr 10 17:46	21° <b>Y</b> '45'22 9°59'41	min. Earth dist.	6021 Oct 18 01:13	0° <b>8</b> 49'41 39.82038 AU
max. Earth dist.	6015 Apr 13 13:44	21° <b>Υ</b> 50'18 40.17023 AU	opposition	6021 Oct 20 20:50	0° <b>8</b> 46'05 -12°30'29
morning rise	6015 Apr 22 04:35	22°Y05'13	-	6021 Nov 29 12:51	30° <b>₹</b> Υ
retrograde	6015 Jul 22 06:24	23° <b>Y</b> '38'18 22° <b>Y</b> '32'55 38.32899 AU	direct	6022 Jan 10 07:22	29° <b>Ƴ</b> 39'14 0° <b>႘</b>
min. Earth dist. opposition	6015 Oct 09 22:41 6015 Oct 12 19:18	22° <b>Υ</b> 32'55 38.32899 AU 22° <b>Υ</b> 29'10 -10°41'07	evening set	6022 Feb 19 23:06 6022 Apr 10 20:13	1° <b>8</b> 09'43
direct	6016 Jan 02 05:46	21° <b>Υ</b> 20'39		-r 20.13	<u> </u>
evening set	6016 Mar 31 06:15	22° <b>Y</b> 51′25	conjunction minimum elong	6022 Apr 20 00:22 6022 Apr 20 00:11	1° <b>8</b> 25'00 -12°02'37 1° <b>8</b> 24'59 12°02'39

max. Earth dist.	6022 Apr 22 19:49	1° <b>8</b> 29'42 41.89	444 AU conjunction	6029 Apr 28 15:48	10° <b>8</b> 26'35 -13°38'37
morning rise	6022 Apr 29 04:42	1° <b>8</b> 40'18	minimum elong	6029 Apr 28 15:38	10° <b>8</b> 26'35 13°38'38
retrograde	6022 Jul 31 10:33	3° <b>8</b> 13'27	max. Earth dist.	6029 May 01 11:09	10° <b>8</b> 31'07 43.51012 AU
min. Earth dist.	6022 Oct 19 16:29	2°809'35 40.05	898 AU morning rise	6029 May 05 02:00	10° <b>8</b> 36'56
opposition	6022 Oct 22 11:48	2° <b>8</b> 06'01 -12°4	•	6029 Aug 09 01:59	12° <b>8</b> 11'13
	6023 Jan 12 01:35	0° <b>8</b> 59'24	min. Earth dist.	6029 Oct 28 17:23	11° <b>8</b> 08'45 41.68092 AU
direct		-			_
evening set	6023 Apr 12 18:12	2° <b>8</b> 29'54	opposition	6029 Oct 31 11:40	11° <b>8</b> 05'19 -14°23'46
			direct	6030 Jan 21 02:33	10° <b>8</b> 00'26
conjunction	6023 Apr 21 13:37	2° <b>8</b> 44'30 -12°1'	7'58 evening set	6030 Apr 24 04:06	11° <b>8</b> 31'55
minimum elong	6023 Apr 21 13:25	2° <b>8</b> 44'29 12°18	8'00		
max. Earth dist.	6023 Apr 24 08:09	2° <b>8</b> 49'07 42.13	009 AU conjunction	6030 Apr 30 03:16	11° <b>8</b> 41'29 -13°50'17
morning rise	6023 Apr 30 09:24	2° <b>8</b> 59'08	minimum elong	6030 Apr 30 03:07	11° <b>8</b> 41'28 13°50'19
retrograde	6023 Aug 02 00:25	4° <b>8</b> 32'22	max. Earth dist.	6030 May 02 21:15	11° <b>8</b> 45'54 43.73169 AU
•	-				-
min. Earth dist.	6023 Oct 21 06:20	3° <b>8</b> 28'43 40.29	· ·	6030 May 06 02:30	11° <b>8</b> 51'03
opposition	6023 Oct 24 02:28	3° <b>8</b> 25'07 -13°02	2	6030 Aug 10 15:06	13° <b>8</b> 25'38
direct	6024 Jan 13 16:02	2° <b>8</b> 18'44	min. Earth dist.	6030 Oct 30 05:29	12° <b>8</b> 23'23 41.90232 AU
evening set	6024 Apr 13 15:57	3° <b>8</b> 49'17	opposition	6030 Nov 02 00:15	12° <b>8</b> 19'57 -14°35'31
			direct	6031 Jan 22 14:23	11° <b>8</b> 15'17
conjunction	6024 Apr 22 02:39	4° <b>8</b> 03'12 -12°32	2'45 evening set	6031 Apr 26 02:56	12° <b>8</b> 47'03
minimum elong	6024 Apr 22 02:28	4° <b>8</b> 03'11 12°32	•	1	
max. Earth dist.	6024 Apr 24 22:18	4° <b>8</b> 07'52 42.36		6031 May 01 14:43	12° <b>8</b> 55'48 -14°01'28
		4° <b>8</b> 17'09	,	6031 May 01 14:43	12° <b>8</b> 55'47 14°01'30
morning rise	6024 Apr 30 13:34	-	minimum elong	•	<del>-</del>
retrograde	6024 Aug 02 13:34	5° <b>8</b> 50'29	max. Earth dist.	6031 May 04 08:36	13° <b>8</b> 00'11 43.94933 AU
min. Earth dist.	6024 Oct 21 21:40	4° <b>8</b> 46'59 40.53	_	6031 May 07 02:30	13° <b>8</b> 04'34
opposition	6024 Oct 24 16:50	4° <b>8</b> 43'27 -13°1'	7'13 retrograde	6031 Aug 12 04:09	14° <b>8</b> 39'27
direct	6025 Jan 14 07:03	3° <b>႘</b> 37'19	min. Earth dist.	6031 Oct 31 19:37	13° <b>8</b> 37'18 42.11959 AU
evening set	6025 Apr 15 13:53	5° <b>と</b> 07'55	opposition	6031 Nov 03 12:46	13° <b>8</b> 33'58 -14°46'47
Ç	1		direct	6032 Jan 24 01:33	12° <b>8</b> 29'30
conjunction	6025 Apr 23 15:25	5° <b>8</b> 21'09 -12°4		6032 Apr 27 02:29	14° <b>8</b> 01'35
	6025 Apr 23 15:13	5° <b>8</b> 21'08 12°4'	0	0032 Apr 27 02.27	14 001 33
minimum elong	-	-		(022.) ( 02.01.50	1.40 4.0000 1.401.0112
max. Earth dist.	6025 Apr 26 10:17	5° <b>8</b> 25'45 42.59	·	6032 May 02 01:58	14° <b>8</b> 09'30 -14°12'13
morning rise	6025 May 01 17:07	5° <b>8</b> 34'25	minimum elong	6032 May 02 01:49	14° <b>8</b> 09'29 14°12'15
retrograde	6025 Aug 04 04:23	7° <b>と</b> 07'52	max. Earth dist.	6032 May 04 19:08	14° <b>8</b> 13'48 44.16279 AU
min. Earth dist.	6025 Oct 23 10:26	6° <b>8</b> 04'38 40.76	503 AU morning rise	6032 May 07 01:22	14° <b>8</b> 17'24
opposition	6025 Oct 26 06:35	6° <b>8</b> 01'04 -13°3	1'38	6032 Jun 04 06:57	15° <b>8</b>
direct	6026 Jan 15 18:41	4° <b>8</b> 55'10	retrograde	6032 Aug 12 15:27	15° <b>8</b> 52'38
evening set	6026 Apr 17 11:40	6° <b>8</b> 25'54	renograde	6032 Oct 24 15:41	15°R <b>8</b>
evening set	0020 Apr 17 11.40	0 023 34	i. Darda dia		· -
		col de oue con a con	min. Earth dist.	6032 Nov 01 07:53	14° <b>8</b> 50'38 42.33231 AU
conjunction	6026 Apr 25 03:51	6° <b>8</b> 38'26 -13°00	**	6032 Nov 04 00:50	14° <b>8</b> 47'19 -14°57'36
minimum elong	6026 Apr 25 03:41	6° <b>8</b> 38'25 13°00		6033 Jan 24 12:49	13° <b>8</b> 43'03
max. Earth dist.	6026 Apr 27 23:08	6° <b>8</b> 43'01 42.82	807 AU	6033 Apr 19 04:28	15° <b>8</b>
morning rise	6026 May 02 20:17	6° <b>と</b> 50'59	evening set	6033 Apr 29 02:41	15° <b>8</b> 15'31
retrograde	6026 Aug 05 18:59	8° <b>8</b> 24'36			
min. Earth dist.	6026 Oct 25 00:55	7° <b>8</b> 21'33 40.99	740 AU conjunction	6033 May 03 12:53	15° <b>8</b> 22'31 -14°22'32
opposition	6026 Oct 27 20:23	7° <b>8</b> 18'02 -13°4	•	6033 May 03 12:44	15° <b>8</b> 22'30 14°22'33
**	6027 Jan 17 05:46	6° <b>8</b> 12'23	max. Earth dist.	6033 May 06 04:49	15° <b>8</b> 26'43 44.37173 AU
direct				•	
evening set	6027 Apr 19 09:27	7° <b>8</b> 43'15	morning rise	6033 May 07 23:02	15° <b>8</b> 29'30
			retrograde	6033 Aug 14 02:22	17° <b>8</b> 05'08
conjunction	6027 Apr 26 16:00	7° <b>8</b> 55'04 -13°13	3'50 min. Earth dist.	6033 Nov 02 20:21	16° <b>8</b> 03'15 42.54082 AU
minimum elong	6027 Apr 26 15:49	7° <b>8</b> 55'04 13°13	3'51 opposition	6033 Nov 05 12:36	15° <b>8</b> 59'59 -15°07'57
max. Earth dist.	6027 Apr 29 11:34	7° <b>8</b> 59'39 43.05	774 AU	6034 Jan 07 13:31	15° <b>₹</b> 8
morning rise	6027 May 03 22:37	8° <b>8</b> 06'54	direct	6034 Jan 26 00:27	14° <b>8</b> 55'53
retrograde	6027 Aug 07 04:45	9° <b>8</b> 40'43		6034 Feb 13 10:36	15° <b>8</b>
min. Earth dist.	6027 Oct 26 14:09	8° <b>8</b> 37'53 41.22	779 AU evening set	6034 May 01 04:08	16° <b>8</b> 28'49
			_	0034 May 01 04.06	10 02849
opposition	6027 Oct 29 09:45	8° <b>8</b> 34'22 -13°58		602434 04 22 25	100 40 4140 4400000
direct	6028 Jan 18 21:15	7° <b>8</b> 28'59	conjunction	6034 May 04 23:37	16° <b>8</b> 34'49 -14°32'24
evening set	6028 Apr 20 07:26	9° <b>8</b> 00'01	minimum elong	6034 May 04 23:29	16° <b>8</b> 34'48 14°32'26
			morning rise	6034 May 08 18:59	16° <b>8</b> 40'48
conjunction	6028 Apr 27 03:55	9° <b>8</b> 11'07 -13°20	6'28 max. Earth dist.	6034 May 07 15:58	16° <b>8</b> 39'02 44.57677 AU
minimum elong	6028 Apr 27 03:45	9° <b>8</b> 11'06 13°20		6034 Aug 15 09:28	18° <b>8</b> 16'57
max. Earth dist.	6028 Apr 29 22:33	9° <b>8</b> 15'37 43.28	ū	6034 Nov 04 08:56	17° <b>8</b> 15'09 42.74555 AU
morning rise	6028 May 04 00:35	9° <b>8</b> 22'13	opposition	6034 Nov 07 00:10	17° <b>8</b> 11'56 -15°17'50
•	-		* *		
retrograde	6028 Aug 07 15:26	10° <b>8</b> 56'15	direct	6035 Jan 27 15:16	16° <b>8</b> 08'00
min. Earth dist.	6028 Oct 27 03:14	9° <b>8</b> 53'38 41.45	_	6035 May 03 07:24	17° <b>8</b> 41'33
opposition	6028 Oct 29 22:48	9° <b>8</b> 50'07 -14°1			
direct	6029 Jan 19 11:29	8° <b>8</b> 44'59	conjunction	6035 May 06 09:50	17° <b>8</b> 46'24 -14°41'50
evening set	6029 Apr 22 05:37	10° <b>8</b> 16'15	minimum elong	6035 May 06 09:43	17° <b>8</b> 46'24 14°41'51
			-		

6050 Nov 25 10:13

opposition

5°**Ⅱ**15'03 -16°57'46

direct	6051 Feb 15 00:19	4° <b>Ⅱ</b> 13'45	minimum elong	6059 Jun 01 15:54	14° <b>I</b> 07'49 16°30'54
			max. Earth dist.	6059 Jun 03 16:08	14° <b>Ⅱ</b> 10'42 48.65046 AU
conjunction	6051 May 24 06:51	5° <b>Ⅱ</b> 45'46 -16°17'04	retrograde	6059 Sep 12 03:54	15° <b>Ⅱ</b> 41′06
minimum elong	6051 May 24 06:50	5° <b>Ⅱ</b> 45'46 16°17'06	min. Earth dist.	6059 Dec 03 06:48	14° <b>Ⅱ</b> 42'00 46.79368 AU
max. Earth dist.	6051 May 26 14:25	5° <b>Ⅱ</b> 49'11 47.58687 AU	opposition	6059 Dec 05 05:17	14° <b>Ⅱ</b> 39'47 -17°12'54
retrograde	6051 Sep 03 15:26	7° <b>Ⅱ</b> 21'19	direct	6060 Feb 24 20:37	13° <b>Ⅱ</b> 39'39
min. Earth dist.	6051 Nov 24 12:50	6° <b>Ⅱ</b> 21'34 45.74527 AU			
opposition	6051 Nov 26 18:17	6° <b>Ⅱ</b> 18'58 -17°00'44	conjunction	6060 Jun 01 22:23	15° <b>Ⅱ</b> 09'08 -16°31'17
direct	6052 Feb 16 11:31	5° <b>Ⅱ</b> 17'49	minimum elong	6060 Jun 01 22:25	15° <b>Ⅱ</b> 09'08 16°31'20
			max. Earth dist.	6060 Jun 03 21:02	15° <b>Ⅱ</b> 11'54 48.76332 AU
conjunction	6052 May 24 14:20	6° <b>Ⅱ</b> 49'31 -16°19'52	retrograde	6060 Sep 12 11:11	16° <b>Ⅱ</b> 42′08
minimum elong	6052 May 24 14:21	6° <b>Ⅱ</b> 49'31 16°19'54	min. Earth dist.	6060 Dec 03 14:17	15° <b>I</b> 43′06 46.90503 AU
max. Earth dist.	6052 May 26 20:36	6° <b>I</b> 52'51 47.73455 AU	opposition	6060 Dec 05 11:52	15° <b>Ⅱ</b> 40'55 -17°13'04
retrograde	6052 Sep 03 23:55	8° <b>Ⅱ</b> 24'46	direct	6061 Feb 25 01:36	14° <b>Ⅱ</b> 40′53
min. Earth dist.	6052 Nov 24 20:14	7° <b>Ⅱ</b> 25'10 45.89181 AU			
opposition	6052 Nov 27 01:56	7° <b>I</b> 22'33 -17°03'21	conjunction	6061 Jun 03 04:55	16° <b>Ⅱ</b> 10'07 -16°31'24
direct	6053 Feb 16 19:33	6° <b>Ⅱ</b> 21'34	minimum elong	6061 Jun 03 04:59	16° <b>Ⅱ</b> 10'07 16°31'25
			max. Earth dist.	6061 Jun 05 03:53	16° <b>Ⅱ</b> 12'54 48.87298 AU
conjunction	6053 May 25 21:41	7° <b>I</b> 52'59 -16°22'21	retrograde	6061 Sep 13 13:44	17° <b>Ⅱ</b> 42'53
minimum elong	6053 May 25 21:40	7° <b>I</b> I52'58 16°22'23	min. Earth dist.	6061 Dec 04 21:57	16° <b>Ⅱ</b> 43'53 47.01313 AU
max. Earth dist.	6053 May 28 03:28	7° <b>I</b> I56'15 47.87890 AU	opposition	6061 Dec 06 18:27	16° <b>Ⅱ</b> 41'46 -17°12'55
retrograde	6053 Sep 05 10:17	9° <b>Ⅱ</b> 27'56	direct	6062 Feb 26 11:07	15° <b>Ⅱ</b> 41'50
min. Earth dist.	6053 Nov 26 05:47	8° <b>Д</b> 28'24 46.03482 AU			
opposition	6053 Nov 28 09:45	8° <b>Д</b> 25'53 -17°05'37	conjunction	6062 Jun 04 11:04	17° <b>Ⅱ</b> 10'49 -16°31'11
direct	6054 Feb 18 01:36	7° <b>Ⅱ</b> 25'03	minimum elong	6062 Jun 04 11:07	17° <b>Ⅱ</b> 10'49 16°31'14
			max. Earth dist.	6062 Jun 06 08:37	17° <b>Ⅱ</b> 13'31 48.97972 AU
conjunction	6054 May 27 04:55	8° <b>I</b> I56'10 -16°24'30	retrograde	6062 Sep 14 19:30	18° <b>Ⅱ</b> 43′21
minimum elong	6054 May 27 04:56	8° <b>П</b> 56'10 16°24'33	min. Earth dist.	6062 Dec 06 04:10	17° <b>Ⅱ</b> 44'28 47.11837 AU
max. Earth dist.	6054 May 29 10:22	8° <b>П</b> 59'25 48.01955 AU	opposition	6062 Dec 08 00:55	17° <b>Ⅱ</b> 42'20 -17°12'27
retrograde	6054 Sep 06 16:50	10° <b>Ⅱ</b> 30'51	direct	6063 Feb 27 19:18	16° <b>Ⅱ</b> 42'31
min. Earth dist.	6054 Nov 27 13:46	9° <b>Ⅱ</b> 31'26 46.17359 AU			
opposition	6054 Nov 29 17:21	9° <b>Ⅱ</b> 28'57 -17°07'35	conjunction	6063 Jun 05 17:19	18° <b>Ⅱ</b> 11'17 -16°30'41
direct	6055 Feb 19 08:47	8° <b>Ⅱ</b> 28'16	minimum elong	6063 Jun 05 17:23	18° <b>Ⅱ</b> 11'17 16°30'43
			max. Earth dist.	6063 Jun 07 14:35	18° <b>Ⅱ</b> 13'58 49.08351 AU
conjunction	6055 May 28 12:06	9° <b>Ⅱ</b> 59'07 -16°26'21	retrograde	6063 Sep 16 04:42	19° <b>Ⅱ</b> 43'36
minimum elong	6055 May 28 12:06	9° <b>I</b> 59'07 16°26'23	min. Earth dist.	6063 Dec 07 12:14	18° <b>Ⅱ</b> 44'45 47.22061 AU
max. Earth dist.	6055 May 30 15:34	10° <b>I</b> 02'13 48.15569 AU	11	6063 Dec 09 07:18	18° <b>Ⅱ</b> 42'42 -17°11'40
retrograde	6055 Sep 07 23:49	11° <b>Ⅱ</b> 33'30	direct	6064 Feb 29 01:36	17° <b>Ⅱ</b> 43′00
min. Earth dist.	6055 Nov 28 22:20	10° <b>I</b> I34'11 46.30770 AU			
opposition	6055 Dec 01 00:51	10° <b>Ⅲ</b> 31'45 -17°09'13	conjunction	6064 Jun 05 23:32	19° <b>I</b> 11'33 -16°29'53
direct	6056 Feb 20 15:20	9° <b>Ⅱ</b> 31'12	minimum elong	6064 Jun 05 23:35	19° <b>Ⅱ</b> 11'33 16°29'56
		_	max. Earth dist.	6064 Jun 07 20:21	19° <b>Ⅱ</b> 14'11 49.18437 AU
conjunction	6056 May 28 19:22	11° <b>Ⅱ</b> 01'47 -16°27'54	retrograde	6064 Sep 16 11:20	20° <b>I</b> I43'39
minimum elong	6056 May 28 19:24	11° <b>I</b> 101'47 16°27'57	min. Earth dist.	6064 Dec 07 18:24	19° <b>I</b> 44′55 47.31955 AU
max. Earth dist.	6056 May 30 22:47	11° <b>Д</b> 04'53 48.28686 AU		6064 Dec 09 13:28	19° <b>II</b> 42'53 -17°10'36
retrograde	6056 Sep 08 04:46	12° <b>Ⅲ</b> 35'54	direct	6065 Mar 01 06:24	18° <b>Ⅱ</b> 43'17
min. Earth dist.	6056 Nov 29 07:32	11° <b>I</b> I36'37 46.43644 AU		(0(5 X 05 05 00	200 T 11120 1 5020140
opposition	6056 Dec 01 08:15	11° <b>II</b> 34'16 -17°10'35	conjunction	6065 Jun 07 05:29	20°II11'38 -16°28'48
direct	6057 Feb 21 01:12	10° <b>Ⅲ</b> 33'50	minimum elong	6065 Jun 07 05:34	20°II11'38 16°28'50
	(057.) ( 20.02.21	120110400 1602041	max. Earth dist.	6065 Jun 09 00:41	20° <b>I</b> 14'10 49.28170 AU
conjunction	6057 May 30 02:21	12° <b>Ⅱ</b> 04'08 -16°29'11	retrograde	6065 Sep 17 18:31	21° <b>I</b> I43'32
minimum elong	6057 May 30 02:22	12° <b>I</b> 104'08 16°29'12	min. Earth dist.	6065 Dec 09 01:45	20° <b>I</b> I44'51 47.41485 AU
max. Earth dist.	6057 Jun 01 03:48	12° <b>I</b> 107'07 48.41281 AU	11	6065 Dec 10 19:38	20° <b>I</b> 42'52 -17°09'14
retrograde	6057 Sep 09 12:01	13° <b>I</b> I37'59	direct	6066 Mar 02 09:54	19° <b>Ⅱ</b> 43′23
min. Earth dist.	6057 Nov 30 14:42	12° <b>Ⅲ</b> 38'48 46.56002 AU		(0(() 00 11 2(	210 11122 17027127
opposition	6057 Dec 02 15:20	12° <b>Ⅱ</b> 36′28 -17°11′39	conjunction	6066 Jun 08 11:36	21° <b>I</b> 11'33 -16°27'26
direct	6058 Feb 22 08:52	11° <b>Ⅲ</b> 36′08	minimum elong	6066 Jun 08 11:40	21° <b>I</b> 11'34 16°27'28
agniumation	6059 May 21 00:11	1201706000 16020111	max. Earth dist.	6066 Jun 10 06:55	21° <b>Ⅱ</b> 14'06 49.37515 AU 22° <b>Ⅱ</b> 43'15
conjunction	6058 May 31 09:11	13° <b>I</b> 06'09 -16°30'11	retrograde	6066 Sep 18 21:42	
minimum elong	6058 May 31 09:13	13° <b>I</b> 06'09 16°30'13	min. Earth dist.	6066 Dec 10 09:17	21° <b>I</b> 44'37 47.50581 AU
max. Earth dist.	6058 Jun 02 09:51	13° <b>I</b> 09'04 48.53375 AU	* *	6066 Dec 12 01:43	21° <b>I</b> 42'43 -17°07'36
retrograde	6058 Sep 10 20:35	14° <b>∏</b> 39'43	direct	6067 Mar 03 17:21	20° <b>Ⅱ</b> 43′20
min. Earth dist.	6058 Dec 01 23:49	13° <b>I</b> I40'32 46.67892 AU		6067 I 00 17 22	220 T 1110 17025140
opposition	6058 Dec 03 22:29	13° <b>∏</b> 38'18 -17°12'25	conjunction	6067 Jun 09 17:32	22° <b>I</b> 11'19 -16°25'49
direct	6059 Feb 23 15:44	12° <b>Ⅲ</b> 38′05	minimum elong	6067 Jun 09 17:38	22° <b>I</b> 11'19 16°25'51
aomine-+:	6050 I 01 15 52	140 110740 16020152	max. Earth dist.	6067 Jun 11 10:54	22° <b>I</b> 13'44 49.46408 AU
conjunction	6059 Jun 01 15:52	14° <b>Ⅱ</b> 07'49 -16°30'53	retrograde	6067 Sep 20 02:55	23° <b>Ⅱ</b> 42'49

min. Earth dist.	6067 Dec 11 15:36	22° <b>Ⅱ</b> 44'16 47.59191 AU	min. Earth dist.	6075 Dec 19 19:37	0° <b>©</b> 31'13 48.11617 AU
opposition	6067 Dec 11 13:30 6067 Dec 13 07:42	22°II42'22 -17°05'43	opposition	6075 Dec 21 03:42	0°929'43 -16°41'29
direct	6068 Mar 03 23:44	21° <b>II</b> 43'04	opposition	6076 Jan 17 19:49	0 <b>3</b> 2943 -10 41 29 30°R <b>Ⅱ</b>
direct	0006 Mai 03 23.44	21 1143 04	direct	6076 Mar 11 20:14	29° <b>Ⅱ</b> 30'52
aaniunatian	6068 Jun 09 23:36	23° <b>Ⅱ</b> 10'51 -16°23'57	unect		0°9
conjunction	6068 Jun 09 23:41	23° <b>I</b> 10'52 16°23'58		6076 May 03 13:51	0 39
minimum elong		23° <b>I</b> 10'32 16'23'38 23° <b>I</b> 13'13 49.54774 AU	agnismation	6076 Jun 17 10:45	0.0057115 16000105
max. Earth dist.	6068 Jun 11 15:54	24° <b>I</b> [42'10	conjunction	6076 Jun 17 19:45	0°557'15 -16°00'05
retrograde	6068 Sep 20 09:23		minimum elong	6076 Jun 17 19:53	0°557'15 16°00'07
min. Earth dist.	6068 Dec 11 23:47	23°II43'35 47.67258 AU	max. Earth dist.	6076 Jun 19 05:30	0°959'11 50.06075 AU
opposition	6068 Dec 13 13:34	23° <b>I</b> I41'48 -17°03'35	retrograde	6076 Sep 28 04:40	2°9527'05
direct	6069 Mar 05 07:54	22° <b>Ⅱ</b> 42'35	min. Earth dist.	6076 Dec 20 01:32	1°528'41 48.16660 AU
	(0(0) 11 05 25	240W10100 16021151	opposition	6076 Dec 21 08:39	1°527'13 -16°37'15
conjunction	6069 Jun 11 05:35	24° <b>I</b> 10'09 -16°21'51	direct	6077 Mar 13 01:40	0°\$28'27
minimum elong	6069 Jun 11 05:42	24° <b>I</b> 10'10 16°21'54			
max. Earth dist.	6069 Jun 12 20:59	24° <b>I</b> 12'27 49.62612 AU	conjunction	6077 Jun 19 00:54	1°954'44 -15°55'55
retrograde	6069 Sep 21 16:46	25° <b>Ⅱ</b> 41'15	minimum elong	6077 Jun 19 01:01	1° <b>9</b> 54'45 15°55'57
min. Earth dist.	6069 Dec 13 05:57	24° <b>I</b> 42'43 47.74785 AU	max. Earth dist.	6077 Jun 20 08:54	1°956'35 50.11034 AU
opposition	6069 Dec 14 19:19	24° <b>Ⅱ</b> 40'57 -17°01'12	retrograde	6077 Sep 29 09:14	3° <b>9</b> 24'28
direct	6070 Mar 06 12:58	23° <b>Ⅱ</b> 41'47	min. Earth dist.	6077 Dec 21 06:42	2°\$26'08 48.21371 AU
			opposition	6077 Dec 22 13:39	2°\$24'42 -16°32'45
conjunction	6070 Jun 12 11:09	25° <b>Ⅱ</b> 09'09 -16°19'31	direct	6078 Mar 14 06:24	1°ട്ട26'00
minimum elong	6070 Jun 12 11:14	25° <b>Ⅱ</b> 09'09 16°19'33			
max. Earth dist.	6070 Jun 14 00:35	25° <b>Ⅱ</b> 11'19 49.69928 AU	conjunction	6078 Jun 20 06:00	2° <b>©</b> 52'12 -15°51'31
retrograde	6070 Sep 23 00:30	26° <b>Ⅲ</b> 40′01	minimum elong	6078 Jun 20 06:09	2° <b>©</b> 52'12 15°51'33
min. Earth dist.	6070 Dec 14 13:06	25° <b>Ⅱ</b> 41′28 47.81829 AU	max. Earth dist.	6078 Jun 21 13:28	2°954'00 50.15618 AU
opposition	6070 Dec 16 01:06	25° <b>Ⅲ</b> 39'46 -16°58'35	retrograde	6078 Sep 30 14:46	4° <b>ॐ</b> 21′50
direct	6071 Mar 07 15:51	24° <b>Ⅱ</b> 40′39	opposition	6078 Dec 23 18:46	3°\$22'09 -16°28'00
			min. Earth dist.	6078 Dec 22 13:53	3°523'30 48.25675 AU
conjunction	6071 Jun 13 16:55	26° <b>Ⅲ</b> 07'49 -16°16'56	direct	6079 Mar 15 13:33	2° <b>5</b> 23'33
minimum elong	6071 Jun 13 17:01	26° <b>Ⅲ</b> 07'49 16°16'59			
max. Earth dist.	6071 Jun 15 06:23	26° <b>Ⅱ</b> 09'59 49.76791 AU	conjunction	6079 Jun 21 11:21	3°9549'39 -15°46'52
retrograde	6071 Sep 24 03:14	27° <b>Ⅲ</b> 38′28	minimum elong	6079 Jun 21 11:29	3°9549'39 15°46'54
min. Earth dist.	6071 Dec 15 19:47	26° <b>Ⅲ</b> 39'54 47.88438 AU	max. Earth dist.	6079 Jun 22 17:58	3°951'24 50.19778 AU
opposition	6071 Dec 17 06:34	26° <b>耳</b> 38'16 -16°55'43	retrograde	6079 Oct 01 21:53	5° <b>©</b> 19'11
direct	6072 Mar 07 23:16	25° <b>耳</b> 39'11	opposition	6079 Dec 24 23:34	4°\$19'36 -16°23'02
			min. Earth dist.	6079 Dec 23 19:05	4°€20'56 48.29508 AU
conjunction	6072 Jun 13 22:26	27° <b>I</b> I06′09 -16°14′06	direct	6080 Mar 15 17:51	3°\$21'03
minimum elong	6072 Jun 13 22:32	27° <b>I</b> 106'10 16°14'07			
max. Earth dist.	6072 Jun 15 10:11	27° <b>Д</b> 08'14 49.83268 AU	conjunction	6080 Jun 21 16:36	4°547'04 -15°42'00
retrograde	6072 Sep 24 06:38	28° <b>I</b> [36'37	minimum elong	6080 Jun 21 16:45	4°\$47'05 15°42'03
min. Earth dist.	6072 Dec 16 01:14	27° <b>Д</b> 38'05 47.94691 AU	max. Earth dist.	6080 Jun 22 21:00	4°548'42 50.23431 AU
opposition	6072 Dec 17 11:56	27° <b>I</b> I36'27 -16°52'34	retrograde	6080 Oct 02 06:39	6°\$16'30
direct	6073 Mar 09 06:07	26° <b>I</b> 37'24	min. Earth dist.	6080 Dec 24 01:51	5°\$18'14 48.32821 AU
direct	0075 Will 07 00.07	20 1137 24	opposition	6080 Dec 25 04:35	5°516'59 -16°17'50
conjunction	6073 Jun 15 03:49	28° <b>∏</b> 04'13 -16°11'00	direct	6081 Mar 16 18:34	4°\$18'30
minimum elong	6073 Jun 15 03:55	28° <b>I</b> I04'13 16°11'02	direct	0001 With 10 10.54	4 310 30
max. Earth dist.	6073 Jun 16 15:11	28° <b>I</b> 06'16 49.89397 AU	conjunction	6081 Jun 22 21:50	5°\$44'25 -15°36'56
retrograde	6073 Sep 25 12:37	29° <b>I</b> [34'30	minimum elong	6081 Jun 22 21:58	5°9644'25 15°36'57
min. Earth dist.	6073 Dec 17 08:19	28° <b>Д</b> 35'57 48.00619 AU	max. Earth dist.	6081 Jun 24 01:53	5°9546'01 50.26553 AU
opposition	6073 Dec 17 00:19	28°II34'23 -16°49'09	retrograde	6081 Oct 03 10:14	7° <b>©</b> 13'44
direct	6074 Mar 10 12:55	27° <b>I</b> 35'24	min. Earth dist.	6081 Dec 25 07:59	6°\$15'26 48.35587 AU
direct	00/4 Mai 10 12.55	21 113324	opposition	6081 Dec 26 09:26	6°914'15 -16°12'25
conjunction	6074 Jun 16 09:12	29° <b>Ⅲ</b> 02'02 -16°07'37	direct	6082 Mar 18 00:21	5°9515'48
	6074 Jun 16 09:12	29° <b>I</b> 102'03 16°07'39	unect	0002 Wai 10 00.21	3 3013 40
minimum elong max. Earth dist.	6074 Jun 17 20:08	29° <b>I</b> 02'03		6082 Jun 24 02:55	(96541)27 15921)29
max. Earm dist.		0°9	conjunction		6°541'37 -15°31'38
	6074 Jul 31 19:41		minimum elong	6082 Jun 24 03:04	6°541'37 15°31'41
retrograde	6074 Sep 26 18:39	0°532'10	max. Earth dist.	6082 Jun 25 04:56	6°543'06 50.29164 AU
•.•	6074 Nov 24 03:25	30°RII	retrograde	6082 Oct 04 12:12	8°510'48
opposition	6074 Dec 19 22:28	29°II32'08 -16°45'28	opposition	6082 Dec 27 14:11	7°511'21 -16°06'47
min. Earth dist.	6074 Dec 18 13:10	29° <b>II</b> 33'42 48.06258 AU	min. Earth dist.	6082 Dec 26 13:19	7°512'31 48.37870 AU
direct	6075 Mar 11 17:30	28° <b>Ⅲ</b> 33'12	direct	6083 Mar 19 06:33	6° <b>©</b> 12'55
	CORE Y	200 H 20112		6000 Y 25	<b>50.000</b>
conjunction	6075 Jun 17 14:22	29°II59'42 -16°03'59	conjunction	6083 Jun 25 07:57	7°938'37 -15°26'08
minimum elong	6075 Jun 17 14:28	29° <b>I</b> 59'42 16°04'01	minimum elong	6083 Jun 25 08:05	7°538'38 15°26'09
	6075 Jun 17 19:35	0°ම	max. Earth dist.	6083 Jun 26 09:11	7°540'04 50.31303 AU
max. Earth dist.	6075 Jun 18 23:48	0°501'37 50.00803 AU	retrograde	6083 Oct 05 16:16	9°507'42
retrograde	6075 Sep 28 01:46	1° <b>5</b> 29'40	opposition	6083 Dec 28 18:58	8°508'16 -16°00'56

min Earl dard, clear direct         688 New 19 14 10 7 19 75 1979 1 75 1979 24 1979 10 1979 1979 1979 1979 1979 1979 1	1 miletary 1 ment	omena or rate nor	11 2 0 0 0 till 0 tig 11 0 1 0 2 ( 0	<i>51)</i> , 115010 G101150 110	3 10 1 00 2020 1 1.2.	5, p <b>uge</b> 50
Second	min. Earth dist.	6083 Dec 27 20:02	8°509'20 48.39708 AU	minimum elong	6091 Jul 02 23:13	15°510'10 14°33'32
Compune   Comp						
		000111111111111111111111111111111111111	, 00,01			
minimar long   Model Jun   25   31.09   Model Jun   26   32.09   30   30034 AU   min. Earth dist   Model Jun   26   32.09   30   900000   45   45   41   41   42   42   42   43   43   43   43   43	conjunction	6084 Jun 25 13:00	8°9635'27 -15°20'24	_		
max. Enthols of Most Conference of				-		
Proposition   Good Pole 28 20.00   197504725   9780700   157450   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700   1760700	U					
Deposition   MoSH Dec 28 (2.2.2)						
Designation   Companion   Co						
Part				evening set	0072 Juli 20 20.17	10 300 30
Compunction				conjunction	6002 Iul 03 04:01	16950630 1492554
	direct	0003 Wai 20 19.13	8 300 33	3		
minimum clong   608 Jun   26 18-01   9-992306   15*1426   morning risc   6092 Jul   70 12-21   16*591224   min. Earth dist   6085 Jun   26 15*144   11*290937   min. Earth dist   6085 Jun   26 10*123   10*29134   13*4828   direct   6093 Jun   28 11-07   16*29352; -14*3712   min. Earth dist   6086 Jun   27 12-34   10*29137   15*08728   direct   6093 Jun   28 12-15   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   14*150   16*29522   16*29520   16*29522   16*29520   16*29522   16*29520   16*29522   16*29520   16*29522	conjunction	6085 Jun. 26, 17:51	0°0732106 15°14'25	_		
max Farth dist						
Internation	_			-		
min Earth dist.         6085 Doc 20 06.27 0.0021 01.07500234 18.42095.AU         min Earth dist.         6093 Jun 0 42.001.0 16.0752375 1.370312 direct         6085 Mar 21 21.33 0.9520310 1.00221.34.15.40828         direct         6093 Jun 29 14.15 1.00525.2 1.401800         14.91800 1.0022.1 1.401800           conjunction         6086 Mar 21 22.34 1.0052835 1.570812 1.005293.6 1.005281 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.0 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.0 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.0 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.005293.6 1.0052				-		
Poposition   688 S Dec 3 0 4-02   19°SB01134 - 15°48'28   direct   6903 Jun   29 14:15   16°SB02775   14°18'06   16°SB0275   14°18'06   16°SB0275   14°18'06   16°SB0275   15°08'14   17°B0275   14°18'09   18°B0277   18°	•					
driect   6086 Mar 21 2133   9°280310   evening set   6093 Jul   29 1415   16°28525   14°18'06   minimum clong   6086 Jun   27 22.41   10°282836   15°08'12   conjunction   6093 Jul   04 09.61   17°280251   14°18'06   minimum clong   6086 Jun   27 22.49   10°282836   15°08'12   max Farth dist.   6093 Jul   04 09.61   17°280251   14°18'06   minimum clong   6086 Jun   20 145   10°282857   8.43114 AU   coposition   6086 Dec   30 83.6   10°285757   8.43114 AU   coposition   6086 Dec   30 83.6   10°285759   15°14152   coposition   6086 Dec   30 83.6   10°285759   15°14152   coposition   6087 Jun   29 03.11   11°282458   15°01'44   evening set   6093 Jul   09 0432   17°283214   4838528 AU   direct   6094 Mar   29 03.21   18°28248   15°01'44   evening set   6094 Jul   06 03.52   18°283218   483858 AU   direct   6094 Mar   29 03.21   18°282458   15°01'44   evening set   6094 Jul   05 13.58   18°283218   483858 AU   evening set   6087 Jul   30 18.56   18°28248   18°30'44   evening set   6084 Jul   30 18.56   18°28249   18°2838   18°384   evening set   6084 Jul   30 18.56   18°28290   14°10'06   evening set   6088 Jul   31 161   11°282458   18°38514   evening set   6094 Jul   05 13.58   18°28570   14°10'06   evening set   6088 Jul   31 161   11°283516   88.4368 AU   evening set   6094 Jul   05 13.58   18°28570   14°10'06   evening set   6088 Jul   30 18.50   evening set   6094 Jul   05 18.52   evening set   6094 Jul   10 19.38   88°2879   evening set   6098 Jul   30 18.50   evening set   6099 Jul   30 18.20   evening set   6099 Jul   30 18.20   evening set   6099 Jul   30 18.20   evening set   6099 Jul   30 18.00   evening set   609						
conjunction 6086 Jun 27 22.41 10°9228736 15°08′12 conjunction 6093 Jul 04 09.04 17°260′251 14°18′09 max. Earth dist. 6086 Jun 28 21.52 processor 6086 Oct 80.53 11°082721 min. Earth dist. 6086 Dec 80.53 11°082721 min. Earth dist. 6086 Dec 80.53 11°2672721 min. Earth dist. 6087 Jun 20 01.53 10°268757 48.43114 AU retrograde 6086 Oct 80.53 11°2672752 min. Earth dist. 6087 Jun 20 03.31 11°2672879 15°4152 min. Earth dist. 6087 Jun 20 03.31 11°2672879 15°4152 min. Earth dist. 6087 Jun 20 03.31 11°2672879 15°4152 min. Earth dist. 6087 Jun 20 03.31 11°2672879 15°4152 min. Earth dist. 6087 Jun 20 03.31 11°2672879 15°0146 minimum elong 6086 Dec 30 10.21 11°2672879 15°0146 minimum elong 6088 Jun 20 10.25 11°267319 15°0146 minimum elong 6088 Jun 20 12.58 11°267319 15°0360 min. Earth dist. 6094 Jul 05 14.08 12°26791 15°0360 min. Earth dist. 6094 Jul 05 14.08 12°26979 15°036279 Jul 06°0470 10°03 13.58 17°26979 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10°0729 10						
Minimum clong   Miss	direct	0080 Mar 21 21:33	9-903 10	evening set	6093 Jun 29 14:13	10-93022
Minimum clong   Miss	agniumation	6096 Ivn 27 22:41	100630125 15000113	agnismatic	6002 1-1 04 00:04	179603151 14010107
Max. Earth dist.				5		
Berngarde   G88 Oct   08 0ct   08 0ct   05 0ct   06 0ct	_					
min   Earth dist.   6086 Dec 31 01-35   10925875   48-3111   AU   retrograde   6093 Dec 14 17-34   187-23111   147-4900   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   147-240   14						
opposition direct         6086 Dec 31 08:36         10*935799 - 15*41*52         opposition min. Earth dist. 6094 Jan 06 02:48         17*9352*11 - 14*49'00 min. Earth dist. 6094 Jan 06 02:48         17*9352*11 - 14*49'00 min. Earth dist. 6094 Jan 06 02:48         17*9352*17 43.8528 AU diversion min. Earth dist. 6094 Jan 08 08:50         17*9352*17 43.8528 AU diversion min. Earth dist. 6094 Jan 08 08:50         17*9352*17 43.8528 AU diversion min. Earth dist. 6094 Jan 08 08:50         17*9352*17 43.8528 AU diversion min. Earth dist. 6094 Jan 08 08:50         17*9352*11 - 14*49'00 diversion min. Earth dist. 6094 Jan 08 08:50         17*9352*10 diversion min. Earth dist. 6094 Jan 08 08:50         17*9352*11 - 14*10'06 diversion min. Earth dist. 6094 Jan 08 08:50         17*9359*17 50:30*14 AU diversion min. Earth dist. 6094 Jan 08 08:50         17*9359*17 50:30*14 Jan 10*10*2         14*10'08 diversion min. Earth dist. 6094 Jan 08 08:40         17*9359*17 50:30*14 AU diversion min. Earth dist. 6095 Jan 07 20:01         18*92828 - 14*10'08           conjunction         6088 Jan 29 08:25         12*921*16 - 14*550*2         cretograde         6095 Jan 07 20:01         18*92828 - 14*40'35           evening set of 6088 Jan 29 08:34         12*921*16 - 14*550*2         cretograde         6095 Jan 07 20:01         18*92828*2 - 14*0'15*4           evening set of 6088 Jan 30 05:04         10 00:28         12*921*16 - 14*550*2         cretograde         6095 Jan 07 20:01         18*92825*2         14*0'15*4           evening set of 6088 Jan 10 10 02:01         12*923*12         12*923*13	-			-		
drect         6087 Mar 23 01:16         9°59'93'6         min. Earth dist. direct (6094 Mar 29 09:25)         17°592'07 1482'7         43.8528 AU direct (6094 Mar 29 09:25)         17°592'07 247 48.38528 AU direct (6094 Mar 29 09:25)         17°592'07 257 257 257 257 257 257 257 257 257 25				Č		
Conjunction   6087 Jun   29   03-31   11   292458   15   011   44   011   0687 Jun   30   03-50   11   292458   15   011   44   010   0687 Jun   29   03-34   11   292458   15   011   44   010   0687 Jun   29   03-34   11   292458   15   011   0687 Jun   20   03-34   11   292458   15   011   0687 Jun   20   03-34   11   292458   15   03-279 AU   Conjunction   6094 Jul   05   13-58   17   29597   14   10   06   0699 Jul   06   03-52   17   29597   14   10   06   0699 Jul   08   0699 Jul	**			11		
Conjunction   G087 Jun   29 03:31   11*292458   -15*01146	direct	6087 Mar 23 01:16	9°959'36			
minimum elong         6087 Jun         29 03:41         11°@2479 15°0146         15°0146         conjunction         6094 Jul         05 13:58         17°@5910 14°1006           cretograde         6087 Cut         09 12:46         12°925138         minimum elong         6094 Jul         05 14:08         17°@5910 14°1008           opposition         6088 Jan         01 12:58         11°@55'16 48 43648 AU         morning rise         6094 Jul         10 19:38         18°@00'16           direct         6088 Mar         23 05:04         10°@55'56         retrograde         6094 Jul         10 19:38         18°@00'16           evening set         6088 Jun         27 16:43         12°@91'16         -14°55'02         direct         6095 Jan         07 20:11         18°@28'28         -14°40'35           conjunction         6088 Jun         29 08:25         12°@21'16         -14°55'02         direct         6095 Jan         07 20:11         18°@28'28         -14°40'15           minimum elong         6088 Jun         30 05:24         12°@21'27         50-3758 AU         conjunction         6095 Jul         01 04:15         18°@25'24         14°01'54           retrograde         6088 Dec         10 16:13         32°@21'25         36'35'8AU         conjunction         6095 J		(00 <b>5</b> x	11000 1150 15001111			
max. Earth dist.         6087 Jun 30 01:02         11°92611 50.36279 AU         conjunction         6094 Jul 05 13:58         17°925910 14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′08         -14°10′	·			evening set	6094 Jun 30 08:56	17°952'06
Petrograde   6087 Oct   09   12:46   12:25338   minimum elong   6094 Jul   05   14:08   17:259710   14:1008   09position   6088 Jun   10:58   11:25819   15:35101   max. Earth dist.   6094 Jul   06   03:25   17:259575   03.0944 AU   minimum elong   6098 Jun   27   16:43   12:251901   moming rise   6094 Jul   06   03:25   23:18   19:25273   14:40735   minimum elong   6098 Jun   27   16:43   12:251901   moming rise   6098 Jun   29   08:25   12:25116   14:5502   direct   6095 Jun   01   01:15   18:254739   34:35900 AU   6088 Jun   29   08:25   12:252116   14:5502   direct   6095 Jun   01   01:15   18:254739   48:3900 AU   6088 Jun   29   08:25   12:2521216   14:5502   direct   6095 Jun   01   01:15   18:254739   48:3900 AU   6088 Jun   29   08:25   12:252233   minimum elong   6095 Jul   01   01:15   18:254739   48:3900 AU   6088 Jun   29   08:25   12:252233   minimum elong   6095 Jul   01   01:15   18:254739   48:3900 AU   6088 Jun   29   08:25   12:252233   minimum elong   6095 Jul   06   19:25   18:25525   14*01154   6095 Jun   06:88 Jun   29   08:25   12:252332   minimum elong   6095 Jul   06   19:25   18*25525   14*01154   6095 Jun   06:89 Jun   20   10:16   13:254953   minimum elong   6095 Jul   06   19:25   18*25525   14*01154   6095 Jun   20   10:16   18:25   14:01154   6095 Jun   20   10:16   18:25   18:25525   14*01154   6095 Jun   20   10:16   18:25   18:25525   14*01154   6095 Jun   20   10:16   18:25   18:25525   14*01154   6095 Jun   20   10:16   18:25   18:25525   14:01154   6095 Jun   20   10:16   18:25   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18:25525   18	Č					
opposition         6088 Jan 01 12:58         11°@54'19 - 15°35'01         max. Earth dist.         6094 Jul 10 19:33         18°©57'7 50:30944 AU           min. Earth dist.         6087 Dec 31 16:16         11°@55'16 48:33648 AU         morning rise         6094 Jul 10 19:33         18°©06'16         48:306'N           direct         6088 Mar 23 05:04         10°@55'56 disease         6095 Jul 00°05'Jan 07 0:20         18°©20'38 8.42'075         48:3090 AU           conjunction         6088 Jun 29 08:25         12°@51'16 - 14°55'02         direct 6095 Jul 01 04:15         18°©20'3 48:35900 AU         48:35900 AU           minimum elong         6088 Jun 29 08:24         12°@21'16 - 14°55'02         direct 6095 Jul 01 04:15         18°©20'3 18:59'73         18°©30'12         48:35900 AU           max. Earth dist.         6088 Jun 30 05:24         12°@21'16 - 14°55'02         cenning set         6095 Jul 01 04:15         18°©30'12         48:35900 AU           retrograde         6088 Jun 30 05:24         12°@25'275         50:36788 AU         minimimum elong         6095 Jul 06 18:52         18°©55'24 - 14°01'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54         40'15'54				·		
Main. Earth dist.   6087 Dec 31 16:16   11°@55716   48.43648 AU   morning rise   6094 Unl 10 19:38   18°@0616   10°@55786   48.43648 AU   morning rise   6098 Unl 27 16:43   12°@57975   min. Earth dist.   6095 Unl 07 07:25   18°@2973   48.35900 AU   6095 Unl 07 07:25   18°@2973   48.35900 AU   6095 Unl 088 Jun 29 08:34   12°@521716   14°5502   direct   6095 Unl 07 07:25   18°@2973   48.35900 AU   6095 Unl 088 Jun 29 08:34   12°@52178   14°5502   direct   6095 Unl 08 18:52   18°@5524   14°0154   6095 Unl 088 Jun 20 05:24   12°@52133   6095 Unl 0895 Unl 0895 Unl 0895 Unl 0895 Unl 0898 Jun 10 10:28   12°@52133   6095 Unl 0895 Unl 0895 Unl 0895 Unl 0898 Jun 10 10:32   12°@52138   48.43863 AU   morning rise   6085 Unl 088 Dun 27 23:38   13°@51783   14°48705   min. Earth dist.   6095 Jun 10 10:40   13°@5182   48.43863 AU   morning rise   6095 Jun 10 10:40   13°@5182   48.43863 AU   morning rise   6095 Unl 0899 Jun 10 10:42   13°@1733   14°48705   min. Earth dist.   6096 Jun 10 10:40   19°@52134   48.32811 AU   6099 Jun 20 12:25   14°@4607   min. Earth dist.   6099 Jun 10 10:42   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5183   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182   13°@5182	•			_		
Part	* *					
Conjunction				-		
Conjunction   6088 Jun   29 08:25   12*\$\frac{12*\text{5}}{22*\text{2}} = 14\frac{1}{2}\text{5}\text{5} = 25\text{2} = 14\frac{1}{2}\text{5}\text{5} = 25\text{2} = 14\frac{1}{2}\text{5}\text{5} = 25\text{2} = 25\text{2} = 25\text{3}\text{2} = 25\text{2}\text{3}\text{3} = 25\text{2}\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\text{3}\text{3} = 25\text{3}\text{3} = 25\text{3}\te				-		
conjunction         6088 Jun 29 08:25         12°92116         14°55'02         direct         6095 Mar 30         14:57         17°930'12         Head of the part	evening set	6088 Jun 27 16:43	12° <b>©</b> 19'01	**		
minimum elong max. Earth dist. 6088 Jun 30 05:24 12°92116 14°55'04 evening set 6095 Jul 01 04:15 18°94'749   max. Earth dist. 6088 Jun 30 05:24 12°922'37 50.36758 AU						
max. Earth dist.         6088 Jul 30 05:24         12°92227 50.36758 AU         conjunction         6095 Jul 06 18:52         18°95524 14°01'57           morning rise         6088 Jul 01 00:28         12°923332         conjunction         6095 Jul 06 18:52         18°95525 14°01'57           opposition         6089 Jan 01 17:32         12°923332         minimum elong         6095 Jul 06 18:52         18°95604         50.28197 AU           min. Earth dist.         6088 Dec 31 22:40         12°95128 48.43863 AU         morning rise         6095 Jul 12 10:17         19°90303         30.28197 AU           evening set         6089 Mar 24 11:39         11°95215         48.43863 AU         morning rise         6095 Oct 17 06:20         20°92347         -14°31'58           conjunction         6089 Jun 30 13:12         13°91732 14°48'05         direct         6096 Jan 09 00:19         19°92510         48.32811 AU           morning rise         6089 Jul 00 09:42         10°9241         14°31'58         48.4807         evening set         6096 Jul 01 00:04         19°92510         48.32811 AU           morning rise         6089 Jul 03 03:12         13°9218'3         14°48'05         direct         6096 Jul 01 00:04         19°95135         13°53'31           retrograde         6089 Jul 03 03:12         13°9218'3         13°918'						
Morning rise   6088 Jul   01   00.28   12°923'32   Conjunction   6095 Jul   06 18:52   18°955'22   14°01'54     Fetrograde   6088 Oct   09   16:16   13°949'53   Minimum elong   6095 Jul   06 19:03   18°955'25   14°01'57     Opposition   6089 Jun   1 17:32   12°950'36   15°27'55   Max. Earth dist.   6095 Jul   12 10:17   19°950'30     Gliect   6088 Dec   31   22:40   12°950'35   48.43863 AU   Minimum elong   6095 Jul   12 10:17   19°950'30     Opposition   6098 Jun   27   23:38   13°91'40   Proposition   6096 Jun   09 0:19   19°924'41   14°31'58     Opposition   6089 Jun   30   13:12   13°91'73   14°48'05   direct   6096 Jun   09 13:38   19°925'10   48.32811 AU     Opposition   6089 Jun   30   13:23   13°91'73   14°48'05   direct   6096 Jun   09 10:00   19°952'13   48.32811 AU     Opposition   6089 Jun   30   31:23   13°91'73   14°48'07   evening set   6096 Jul   07 00:04   19°952'13   13°53'29     Max. Earth dist.   6089 Jul   30 31:12   13°921'03   44°48'07   evening set   6096 Jul   07 00:05   19°95'13   13°53'29     Opposition   6090 Jun   02 1:54   13°934'52   50.36923 AU     Minimum elong   6089 Jul   03 03:12   13°921'03   max. Earth dist.   6096 Jul   07 00:05   19°95'13   13°53'29     Opposition   6090 Jun   02 1:54   13°934'52   48.43731 AU   morning rise   6096 Jul   07 10:38   19°95'15   50.25018 AU     Opposition   6090 Jul   28 12:07   14°909'25   48.43731 AU   morning rise   6096 Jul   07 10:38   19°95'15   50.25018 AU     Opposition   6090 Jul   28 12:07   14°909'25   48.43731 AU   morning rise   6096 Jul   07 10:38   10°95'15   48.2306 AU     Opposition   6090 Jul   28 12:07   14°909'25   14°40'56   evening set   6097 Jul   08 04:3   20°920'47   14°30'76     Opposition   6090 Jul   08 04:3   20°920'47   13°44'51     Opposition   6090 Jul   08 04:3   20°920'47	minimum elong		12° <b>©</b> 21'16 14°55'04	evening set	6095 Jul 01 04:15	18° <b>©</b> 47'49
Petrograde   6088 Oct   09   16:16   13°949'53   minimum elong   6095 Jul   06   19:03   18°955'25   14°01'57     Opposition   6089 Jan   01   17:32   12°950'36   -15°27'55   max. Earth dist.   6095 Jul   07   06:42   18°956'04   50.28197 AU     min. Earth dist.   6088 Dec   31   22:40   12°95'128   48.4386'3 AU   morning rise   6095 Jul   12   10:17   19°950'30'3     direct   6089 Jun   27   23:38   13°91'132   14°48'05   min. Earth dist.   6096 Jan   09   00:19   19°92'41   -14°31'58     minimum elong   6089 Jun   30   13:12   13°91'132   14°48'05   min. Earth dist.   6096 Jul   01   00:04   19°92'32'1   48.231'1 AU     morning rise   6089 Jul   03   03:12   13°931'32   14°36'07   minimum elong   6096 Jul   07   00:05   19°951'36   13°53'31     min. Earth dist.   6090 Jan   02   21:54   14°96'07   minimum elong   6096 Jul   07   00:05   19°951'36   13°53'31     min. Earth dist.   6090 Jul   21   12°95'134   48.4373'1 AU   morning rise   6096 Jul   07   00:05   19°95'136   13°53'31     min. Earth dist.   6090 Jul   28   12:07   14°96'05'2   14°94'05'4   morning rise   6096 Jul   07   00:05   19°95'136   13°53'31     min. Earth dist.   6090 Jul   01   18:00   14°93'15   14°40'54   morning rise   6096 Jul   07   00:05   19°95'136   13°53'31     min. Earth dist.   6090 Jul   01   18:00   14°93'15   14°40'54   morning rise   6097 Jul   01   02:01   20°920'49   -14°23'07     max. Earth dist.   6090 Jul   02   12:32   14°91'52   50.36710 AU   morning rise   6090 Jul   03   03:01   14°93'15   14°40'54   min. Earth dist.   6090 Jul   05   02:23   14°918'15   50.36710 AU   morning rise   6090 Jul   04   04:23   14°94'52   14°94'54   13°94'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'15   13°54'						
opposition         6089 Jan 01 17:32         12°950'36 -15°27'55         max. Earth dist.         6095 Jul 07 06:42         18°956'04 50.28197 AU         50.28197 AU           min. Earth dist.         6088 Dec 31 22:40         12°955'128 48.43863 AU         morning rise         6095 Jul 12 10:17         19°963'03         3           evening set         6089 Mar 24 11:39         11°952'15         retrograde         6095 Cut 17 06:20         20°92347         -14°31'58           evening set         6089 Jun 30 13:12         13°917'32 -14°48'05         direct         6096 Mar 30 17:16         18°926'23         -14°48'07           max. Earth dist.         6089 Jun 30 13:23         13°931'33 14°48'05         direct         6096 Jul 01 00:04         19°951'35 -13°53'29           morning rise         6089 Jul 03 03:12         13°931'33 14°48'07         evening set         6096 Jul 01 00:04         19°951'35 -13°53'29           retrograde         6089 Jul 03 03:12         13°931'03         conjunction         6096 Jul 07 00:05         19°951'36 13°53'31           opposition         6089 Oct 10 21:25         14°954'07         minimum elong         6096 Jul 07 00:05         19°951'36 13°53'31           direct         6090 Jul 02 12:25         13°921'03         evening set         6096 Jul 07 10:33         19°952'15         50.25018 AU	•			5		
min. Earth dist.         6088 Dec 31 22:40         12°S51'28 48.43863 AU         morning rise retrograde         6095 Jul 12 10:17 10:20         19°S0'303 20°S2'347           evening set         6089 Mar 24 11:39 11°S52'15         retrograde         6095 Ct 17 06:20         20°S2'347         -14°31'58           evening set         6089 Jun 30 13:12         13°S1'732 -14°48'05         min. Earth dist.         6096 Jan 09 00:19 10°S2'15         18°S2'6'23           minimum elong         6089 Jun 30 13:12         13°S1'733 14°48'07         evening set         6096 Jul 01 00:04         19°S4'3'29           max. Earth dist.         6089 Jul 03 03:12         13°S1'733 14°48'07         conjunction         6096 Jul 07 00:04         19°S5'135 -13°53'29           retrograde         6089 Oct 10 21:25         14°S6'07         minimum elong         6096 Jul 07 00:05         19°S5'135 -13°53'29           retrograde         6089 Oct 10 21:25         13°S4'6'52 -15°20'34         max. Earth dist.         6096 Jul 07 00:05         19°S5'135 -13°53'31           opposition         6090 Jul 02 03:01         13°S4'745 -48.43731 AU         morning rise         6096 Jul 07 00:05         19°S5'15 -50.25018 AU           direct         6090 Jul 01 18:00         14°S1'349 -14°40'54         retrograde         6096 Jul 02:01         02°S2'04 -14°23'07           evening set         6	•		13° <b>©</b> 49'53	_		
direct         6089 Mar 24 11:39         11°@52'15         retrograde         6095 Oct 17 06:20         20°@23'47	opposition					
evening set	min. Earth dist.	6088 Dec 31 22:40		•	6095 Jul 12 10:17	19° <b>5</b> 03'03
min. Earth dist. 6096 Jun 8 13:38 19°©25'10 48:32811 AU morning rise 6089 Jun 30 13:12 13°©31'32 14°48'07 evening set 6096 Jun 10 10:04 19°©35'135 -13°53'29 max. Earth dist. 6090 Jun 10 10:42 13°©318'42 50.36923 AU morning rise 6089 Jul 01 02:12:5 14°©36'07 minimum elong 6096 Jun 02 12:25 14°©36'652 -15°20'34 max. Earth dist. 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 02 03:01 13°©34'55 48:43731 AU morning rise 6090 Jun 03 18:44 20°©321'17 48:29306 AU conjunction 6090 Jul 01 18:00 14°©31'349 -14°40'54 direct 6097 Jun 03 18:44 20°©321'17 48:29306 AU minimum elong 6090 Jul 01 18:00 14°©31'350 14°40'56 evening set 6090 Jul 01 18:00 14°©31'350 14°40'56 evening set 6090 Jul 01 18:00 14°©31'350 14°40'56 evening set 6097 Jul 08 04:35 20°©37'43 -13°44'51 retrograde 6090 Oct 12 06:01 15°©34'222 minimum elong 6097 Jul 08 04:45 20°©34'74 13°44'53 min. Earth dist. 6091 Jan 03 09:13 14°©34'58 48:43204 AU max. Earth dist. 6097 Jul 08 04:45 20°©34'74 13°44'53 min. Earth dist. 6091 Jan 04 02:23 14°©34'58 48:43204 AU max. Earth dist. 6097 Jul 08 14:35 20°©36'21 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'21 40°03'65 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 20°©36'17'2 2				-		
Conjunction   6089 Jun   30   13:12   13°\$17'32   -14°48'05   direct   6096 Mar   30   17:16   18°\$26'23   max. Earth dist.   6089 Jul   01   09:42   13°\$18'42   50.36923 AU   morning rise   6089 Jul   03   03:12   13°\$21'03   conjunction   6096 Jul   06   23:54   19°\$5'135   -13°53'29   retrograde   6089 Oct   10   21:25   14°\$46'07   minimum elong   6096 Jul   07   00:05   19°\$5'136   13°53'31   opposition   6090 Jun   02   21:54   13°\$46'52   -15°20'34   max. Earth dist.   6090 Jun   02   03:01   13°\$47'45   48.43731 AU   morning rise   6096 Jul   07   11:38   19°\$5'15   50.25018 AU   morning rise   6090 Jun   28   12:07   14°\$09'925   opposition   6097 Jun   08   18:44   20°\$21'17   48.29306 AU   conjunction   6090 Jul   01   18:00   14°\$13'49   -14°40'54   direct   6090 Jul   02   12:32   14°\$18'16   conjunction   6090 Jul   02   12:32   14°\$18'16   conjunction   6090 Jul   03   09:13   14°\$218'16   conjunction   6090 Jul   05   00:22   14°\$18'16   conjunction   6090 Jul   08   04:35   20°\$47'43   13°44'51   retrograde   6090 Oct   12   06:01   15°\$42'22   minimum elong   6090 Jul   04   02:23   14°\$45'35   48.43204 AU   morning rise   6090 Jul   04   02:23   14°\$45'35   direct   6091 Jun   05   09:13   14°\$45'35   direct   6091 Jun   05   09:24   14°\$45'35   direct   6091 Jun   05   09:34'45   direct   6091 Jun   05   09:54'45   direct   6091 Jun   05   09:56'21   direct   6091 Jun   05   09:56'21	evening set	6089 Jun 27 23:38	13° <b>©</b> 14'03		6096 Jan 09 00:19	19°524'41 -14°31'58
minimum elong max. Earth dist.         6089 Jul 01 09:42         13°S18'42         50.36923 AU         evening set         6096 Jul 01 00:04         19°S43'29         Image: Conjunction of the part of the par				min. Earth dist.		
max. Earth dist.         6089 Jul 01 09:42         13°\$18'42         50.36923 AU         conjunction         6096 Jul 06 23:54         19°\$51'35         -13°53'29           retrograde         6089 Oct 10 21:25         14°\$46'07         minimum elong         6096 Jul 07 00:05         19°\$51'35         13°53'31           opposition         6090 Jan 02 21:54         13°\$46'52         -15°20'34         max. Earth dist.         6096 Jul 07 11:38         19°\$52'15         50.25018 AU           min. Earth dist.         6090 Jan 02 03:01         13°\$47'45         48.43731 AU         morning rise         6096 Jul 07 11:38         19°\$52'15         50.25018 AU           direct         6090 Mar 25 17:06         12°\$\$48'34         retrograde         6096 Jul 13 00:26         19°\$\$59'44         48.2300'6           evening set         6090 Jul 28 12:07         14°\$\$09'25         opposition         6097 Jan 09 04:36         20°\$\$20'49         -14°23'07           conjunction         6090 Jul 01 18:00         14°\$\$13'49         -14°40'54         direct         6097 Jan 08 18:44         20°\$\$21'17         48.29306 AU           minimum elong         6090 Jul 01 18:09         14°\$\$13'59         14°40'56         evening set         6097 Jul 01 20:10         20°\$\$23'0         -14°\$\$13'50         14°\$\$13'50         14°\$\$14'52         50.3	·					
morning rise         6089 Jul         03 03:12         13°S21'03         conjunction         6096 Jul         06 23:54         19°S5'135         -13°53'29           retrograde         6089 Oct         10 21:25         14°S46'07         minimum elong         6096 Jul         07 00:05         19°S5'136         13°53'31           opposition         6090 Jan         02 21:54         13°S46'52         -15°20'34         max. Earth dist.         6096 Jul         07 11:38         19°S52'15         50.25018 AU           min. Earth dist.         6090 Jan         02 03:01         13°S47'45         48.43731 AU         morning rise         6096 Jul         13 00:26         19°S52'15         50.25018 AU           direct         6090 Jun         28 12:07         14°S09'25         opposition         6096 Oct         17 10:23         21°S19'57         48.29306 AU           conjunction         6090 Jul         11 18:00         14°S013'49         -14°40'54         direct         6097 Jul         10 12:01         20°S23'07         48.29306 AU           minimum elong         6090 Jul         10 18:09         14°S13'50         14°40'56         evening set         6097 Jul         10 20:10         20°S23'07         13°44'51           retrograde         6090 Jul         05 0:22	_			evening set	6096 Jul 01 00:04	19°5943'29
retrograde 6089 Oct 10 21:25 14°946'07 minimum elong 6096 Jul 07 00:05 19°951'36 13°53'31 opposition 6090 Jan 02 21:54 13°946'52 -15°20'34 max. Earth dist. 6096 Jul 07 11:38 19°952'15 50.25018 AU min. Earth dist. 6090 Jul 02 03:01 13°947'45 48.43731 AU morning rise 6096 Jul 13 00:26 19°959'44 evening set 6090 Mar 25 17:06 12°948'34 retrograde 6096 Oct 17 10:23 21°919'57 evening set 6090 Jul 28 12:07 14°909'25 opposition 6097 Jan 09 04:36 20°920'49 -14°23'07 min. Earth dist. 6097 Jan 08 18:44 20°921'17 48.29306 AU conjunction 6090 Jul 01 18:00 14°913'49 -14°40'54 direct 6097 Mar 31 20:59 19°922'30 max. Earth dist. 6090 Jul 01 18:09 14°913'50 14°40'56 evening set 6097 Jul 01 20:10 20°939'07 max. Earth dist. 6090 Jul 02 12:32 14°914'52 50.36710 AU morning rise 6090 Jul 05 00:22 14°918'16 conjunction 6097 Jul 08 04:35 20°947'44 13°44'51 retrograde 6090 Oct 12 06:01 15°942'22 minimum elong 6097 Jul 08 04:45 20°947'44 13°44'53 min. Earth dist. 6091 Jan 03 09:13 14°943'58 48.43204 AU max. Earth dist. 6097 Jul 08 14:32 20°948'17 50.21463 AU opposition 6091 Jan 04 02:23 14°943'11 -15°12'59 morning rise 6097 Oct 18 13:57 22°916'03 evening set 6091 Jun 29 03:24 15°904'58 retrograde 6097 Oct 18 13:57 22°916'03 evening set 6091 Jun 29 03:24 15°904'58 opposition 6098 Jan 10 08:52 21°916'55 -14°14'03 evening set 6091 Jun 29 03:24 15°904'58 opposition 6098 Jan 10 08:52 21°916'55 -14°14'03 evening set 6091 Jun 29 03:24 15°904'58 48.25456 AU						
opposition         6090 Jan 02 21:54         13°S46'52 -15°20'34         max. Earth dist.         6096 Jul 07 11:38         19°S52'15         50.25018 AU           min. Earth dist.         6090 Jan 02 03:01         13°S47'45         48.43731 AU         morning rise         6096 Jul 13 00:26         19°S52'15         50.25018 AU           direct         6090 Mar 25 17:06         12°S48'34         retrograde         6096 Jul 13 00:26         19°S52'15         50.25018 AU           evening set         6090 Jul 28 12:07         14°S09'25         opposition         6097 Jan 09 04:36         20°S20'49         -14°23'07           conjunction         6090 Jul 01 18:00         14°S13'49 -14°40'54         direct         6097 Jan 08 18:44         20°S21'17         48.29306 AU           minimum elong         6090 Jul 01 18:09         14°S13'50 14°40'56         evening set         6097 Jul 01 20:10         20°S29'07         -14°40'56           max. Earth dist.         6090 Jul 02 12:32         14°S18'16         conjunction         6097 Jul 08 04:35         20°S47'43 -13°44'51           retrograde         6090 Oct 12 06:01         15°S42'22         minimum elong         6097 Jul 08 04:35         20°S47'44 13°44'53           min. Earth dist.         6091 Jan 03 09:13         14°S43'11 -15°12'59         morning rise         6097 Jul 08 14:32	-			,		
min. Earth dist.         6090 Jan 02 03:01         13°S47'45         48.43731 AU         morning rise         6096 Jul 13 00:26         19°S59'44         description           direct         6090 Mar 25 17:06         12°S48'34         retrograde         6096 Oct 17 10:23         21°S19'57         14°23'07           evening set         6090 Jun 28 12:07         14°S09'25         opposition         6097 Jan 09 04:36         20°S20'49 -14°23'07           conjunction         6090 Jul 01 18:00         14°S13'49 -14°40'54         direct         6097 Mar 31 20:59         19°S22'30           minimum elong         6090 Jul 01 18:09         14°S13'50 14°056         evening set         6097 Jul 01 20:10         20°S39'07           max. Earth dist.         6090 Jul 05 00:22         14°S18'16         conjunction         6097 Jul 08 04:35         20°S47'43 -13°44'51           retrograde         6090 Oct 12 06:01         15°S42'22         minimum elong         6097 Jul 08 04:45         20°S47'44 13°44'53           min. Earth dist.         6091 Jan 03 09:13         14°S43'58 48.43204 AU         max. Earth dist.         6097 Jul 08 14:32         20°S48'17 50.21463 AU           opposition         6091 Mar 26 18:23         13°S44'54         retrograde         6097 Oct 18 13:57         22°S16'03           evening set         6091 Jun 29 03:24 <td>•</td> <td></td> <td></td> <td>Č</td> <td></td> <td></td>	•			Č		
direct 6090 Mar 25 17:06 12°S48'34 retrograde opposition 6097 Jan 09 04:36 20°S20'49 -14°23'07 opposition 6097 Jan 09 04:36 20°S20'49 -14°23'07 min. Earth dist. 6097 Jan 08 18:44 20°S21'17 48.29306 AU conjunction 6090 Jul 01 18:00 14°S13'49 -14°40'54 direct 6097 Mar 31 20:59 19°S22'30 evening set 6090 Jul 01 18:09 14°S13'50 14°40'56 evening set 6097 Jul 01 20:10 20°S39'07 max. Earth dist. 6090 Jul 02 12:32 14°S18'16 conjunction 6097 Jul 08 04:35 20°S47'43 -13°44'51 retrograde 6090 Oct 12 06:01 15°S42'22 minimum elong 6097 Jul 08 04:45 20°S47'44 13°44'53 min. Earth dist. 6091 Jan 03 09:13 14°S43'58 48.43204 AU max. Earth dist. 6097 Jul 08 14:32 20°S47'44 13°44'53 evening set 6091 Jan 04 02:23 14°S43'11 -15°12'59 morning rise 6097 Jul 14 13:52 20°S56'21 direct 6091 Mar 26 18:23 13°S44'54 retrograde 6097 Oct 18 13:57 22°S16'03 evening set 6091 Jun 29 03:24 15°S04'58 retrograde 6098 Jan 10 08:52 21°S16'55 -14°14'03 min. Earth dist. 6098 Jan 09 23:21 21°S17'22 48.25456 AU	* *					
evening set 6090 Jun 28 12:07	min. Earth dist.			•		
min. Earth dist. 6097 Jul 01 18:00 14°S13'49 -14°40'54 direct 6097 Mar 31 20:59 19°S22'30 min.minimum elong 6090 Jul 01 18:09 14°S13'50 14°40'56 evening set 6097 Jul 01 20:10 20°S39'07 max. Earth dist. 6090 Jul 02 12:32 14°S18'16 conjunction 6097 Jul 08 04:35 20°S47'43 -13°44'51 retrograde 6090 Oct 12 06:01 15°S42'22 min. Earth dist. 6091 Jan 03 09:13 14°S43'58 48.43204 AU max. Earth dist. 6091 Jan 04 02:23 14°S43'11 -15°12'59 morning rise 6097 Jul 08 14:32 20°S48'17 50.21463 AU opposition 6091 Jan 04 02:23 14°S43'11 -15°12'59 morning rise 6097 Oct 18 13:57 22°S16'03 evening set 6091 Jun 29 03:24 15°S04'58 48.43204 AU min. Earth dist. 6098 Jan 09 23:21 21°S17'22 48.25456 AU min. Earth dist. 6098 Jan 09 23:21 21°S17'22 48.25456 AU		6090 Mar 25 17:06		-		21° <b>©</b> 19'57
conjunction         6090 Jul         01 18:00         14°S13'49         -14°40'54         direct         6097 Mar         31 20:59         19°S22'30         Instruction           minimum elong         6090 Jul         01 18:09         14°S13'50         14°40'56         evening set         6097 Jul         01 20:10         20°S39'07           max. Earth dist.         6090 Jul         02 12:32         14°S18'16         conjunction         6097 Jul         08 04:35         20°S47'43         -13°44'51           retrograde         6090 Oct         12 06:01         15°S42'22         minimum elong         6097 Jul         08 04:35         20°S47'44         13°44'53           min. Earth dist.         6091 Jan         03 09:13         14°S43'58         48.43204 AU         max. Earth dist.         6097 Jul         08 14:32         20°S48'17         50.21463 AU           opposition         6091 Jan         04 02:23         14°S43'11         -15°12'59         morning rise         6097 Jul         14 13:52         20°S56'21           direct         6091 Mar         26 18:23         13°S44'54         retrograde         6097 Oct         18 13:57         22°S16'03           evening set         6091 Jun         29 03:24         15°S04'58         opposition         6098 Jan	evening set	6090 Jun 28 12:07	14° <b>©</b> 09'25	**		
minimum elong max. Earth dist. 6090 Jul 01 18:09 14°S13'50 14°40'56 evening set 6097 Jul 01 20:10 20°S39'07 max. Earth dist. 6090 Jul 02 12:32 14°S18'16 conjunction 6097 Jul 08 04:35 20°S47'43 -13°44'51 retrograde 6090 Oct 12 06:01 15°S42'22 minimum elong 6097 Jul 08 04:45 20°S47'44 13°44'53 min. Earth dist. 6091 Jan 03 09:13 14°S43'58 48.43204 AU max. Earth dist. 6097 Jul 08 14:32 20°S48'17 50.21463 AU opposition 6091 Jan 04 02:23 14°S43'11 -15°12'59 morning rise 6097 Jul 14 13:52 20°S56'21 direct 6091 Mar 26 18:23 13°S44'54 retrograde 6097 Oct 18 13:57 22°S16'03 evening set 6091 Jun 29 03:24 15°S04'58 min. Earth dist. 6098 Jan 09 23:21 21°S17'22 48.25456 AU						
max. Earth dist.         6090 Jul 02 12:32         14°S14'52         50.36710 AU           morning rise         6090 Jul 05 00:22         14°S18'16         conjunction         6097 Jul 08 04:35         20°S47'43 -13°44'51           retrograde         6090 Oct 12 06:01         15°S42'22         minimum elong         6097 Jul 08 04:45         20°S47'44 13°44'53           min. Earth dist.         6091 Jan 03 09:13         14°S43'58 48.43204 AU         max. Earth dist.         6097 Jul 08 14:32 20°S48'17 50.21463 AU         50.21463 AU           opposition         6091 Jan 04 02:23         14°S43'11 -15°12'59         morning rise         6097 Jul 14 13:52 20°S56'21         20°S56'21           direct         6091 Mar 26 18:23         13°S44'54         retrograde         6097 Oct 18 13:57 22°S16'03         22°S16'03           evening set         6091 Jun 29 03:24         15°S04'58         opposition 6098 Jan 09 23:21         21°S16'55 -14°14'03						
morning rise         6090 Jul 05 00:22         14°S18'16         conjunction         6097 Jul 08 04:35         20°S47'43         -13°44'51           retrograde         6090 Oct 12 06:01         15°S42'22         minimum elong         6097 Jul 08 04:45         20°S47'44         13°44'53           min. Earth dist.         6091 Jan 03 09:13         14°S43'18 48.43204 AU         max. Earth dist.         6097 Jul 08 14:32         20°S48'17 50.21463 AU           opposition         6091 Jan 04 02:23         14°S43'11 -15°12'59         morning rise         6097 Jul 14 13:52         20°S56'21           direct         6091 Mar 26 18:23         13°S44'54         retrograde         6097 Oct 18 13:57         22°S16'03           evening set         6091 Jun 29 03:24         15°S04'58         opposition         6098 Jan 09 23:21         21°S16'55 -14°14'03           min. Earth dist.         6098 Jan 09 23:21         21°S17'22         48.25456 AU	_			evening set	6097 Jul 01 20:10	20°539'07
retrograde 6090 Oct 12 06:01 15°S42'22 minimum elong 6097 Jul 08 04:45 20°S47'44 13°44'53 min. Earth dist. 6091 Jan 03 09:13 14°S43'58 48.43204 AU max. Earth dist. 6097 Jul 08 14:32 20°S48'17 50.21463 AU opposition 6091 Jan 04 02:23 14°S43'11 -15°12'59 morning rise 6097 Jul 14 13:52 20°S56'21 direct 6091 Mar 26 18:23 13°S44'54 retrograde 6097 Oct 18 13:57 22°S16'03 evening set 6091 Jun 29 03:24 15°S04'58 opposition 6098 Jan 10 08:52 21°S16'55 -14°14'03 min. Earth dist. 6098 Jan 09 23:21 21°S17'22 48.25456 AU						
min. Earth dist. 6091 Jan 03 09:13 14°S43'58 48.43204 AU max. Earth dist. 6097 Jul 08 14:32 20°S48'17 50.21463 AU opposition 6091 Jan 04 02:23 14°S43'11 -15°12'59 morning rise 6097 Jul 14 13:52 20°S56'21 direct 6091 Mar 26 18:23 13°S44'54 retrograde 6097 Oct 18 13:57 22°S16'03 evening set 6091 Jun 29 03:24 15°S04'58 opposition 6098 Jan 10 08:52 21°S16'55 -14°14'03 min. Earth dist. 6098 Jan 09 23:21 21°S17'22 48.25456 AU	•			•		
opposition         6091 Jan         04 02:23         14°S43'11 -15°12'59         morning rise         6097 Jul         14 13:52         20°S56'21           direct         6091 Mar 26 18:23         13°S44'54         retrograde         6097 Oct 18 13:57         22°S16'03           evening set         6091 Jun 29 03:24         15°S04'58         opposition         6098 Jan 10 08:52         21°S16'55 -14°14'03           min. Earth dist.         6098 Jan 09 23:21         21°S17'22         48.25456 AU	•			•		
direct 6091 Mar 26 18:23 13°544'54 retrograde 6097 Oct 18 13:57 22°516'03 evening set 6091 Jun 29 03:24 15°504'58 opposition 6098 Jan 10 08:52 21°516'55 -14°14'03 min. Earth dist. 6098 Jan 09 23:21 21°517'22 48.25456 AU						
evening set 6091 Jun 29 03:24 15°504'58 opposition 6098 Jan 10 08:52 21°516'55 -14°14'03 min. Earth dist. 6098 Jan 09 23:21 21°517'22 48.25456 AU	* *			•		
min. Earth dist. 6098 Jan 09 23:21 21°\$17'22 48.25456 AU				•		
	evening set	6091 Jun 29 03:24	15° <b>5</b> 04'58	**		
conjunction 6091 Jul 02 23:02 15°S10'09 -14°33'30 direct 6098 Apr 02 00:53 20°S18'35	_					
	conjunction	6091 Jul 02 23:02	15°5510'09 -14°33'30	direct	6098 Apr 02 00:53	20°9518'35

evening set	6098 Jul	02	16:35	21° <b>©</b> 34'46	
conjunction	6098 Jul	09	09:27	21°9643'50	-13°35'59
minimum elong	6098 Jul	09	09:39	21°5643'50	13°36'00
max. Earth dist.	6098 Jul	09	18:51	21°5944'21	50.17571 AU
morning rise	6098 Jul	16	03:13	21°952'56	
retrograde	6098 Oct	19	17:02	23°5512'11	
opposition	6099 Jan	11	13:11	22°513'02	-14°04'43
min. Earth dist.	6099 Jan	11	05:23	22° <b>©</b> 13'24	48.21286 AU
direct	6099 Apr	03	06:55	21°9514'41	
evening set	6099 Jul	03	13:25	22° <b>©</b> 30'26	
	(000 I-1	10	14.21	2206220157	1202(152
conjunction	6099 Jul		14:21 14:31	22°939'57	-13°26'52
minimum elong max. Earth dist.	6099 Jul 6099 Jul	10	23:14	22°539'57 22°540'27	13°26'54 50.13389 AU
					30.13389 AU
morning rise	6099 Jul		16:09	22°549'31	
retrograde	6099 Oct		21:46 17:23	24°508'19	12055100
opposition	6100 Jan			23°509'11	-13°55'09
min. Earth dist.	6100 Jan		09:26	23°509'33	48.16816 AU
	6100 Apr 6100 Jul	04	12:50 10:28	22°\$10'49 23°\$26'10	
evening set	6100 Jul	04	10:28	23 920 10	
conjunction	6100 Jul	11	19:10	23°936'07	-13°17'32
minimum elong	6100 Jul	11	19:22	23°536'08	13°17'34
max. Earth dist.	6100 Jul	12	02:15	23°536'31	50.08899 AU
morning rise	6100 Jul	19	04:57	23°5946'09	
retrograde	6100 Oct	22	06:39	25°504'32	
opposition	6101 Jan	13	21:39	24°505'24	-13°45'21
min. Earth dist.	6101 Jan	13	15:10	24°505'42	48.12046 AU
direct	6101 Apr	05	14:05	23°507'01	
evening set	6101 Jul	05	07:45	24°522'00	
conjunction	6101 Jul	13	00:09	24° <b>©</b> 32'24	-13°07'58
minimum elong	6101 Jul	13	00:20	24°932'24	13°08'00
max. Earth dist.	6101 Jul		07:23	24°932'48	50.04102 AU
morning rise	6101 Jul	20	17:29	24°942'51	50.04102 AU
retrograde	6101 Oct	23	12:46	26°900'51	
10110511110	0101 001	23	12.70	20 -00 31	