retrograde	9600 Jan 03 19:56	10° ≏ 22'32	max. Earth dist.	9606 Sep 29 06:51	16° 2 05'34 46.06477 AU
opposition	9600 Mar 26 16:15	9° £ 21'32 -7°31'06		, , , , , , , , , , , , , , , , , , ,	
min. Earth dist.	9600 Mar 27 13:01	9° £ 20'32 45.14994 AU	conjunction	9606 Sep 30 13:07	16° 2 07'24 -5°25'45
direct	9600 Jun 16 04:34	8° £ 21'00	minimum elong	9606 Sep 30 13:15	16° ♀ 07'25 5°25'41
evening set	9600 Sep 09 15:08	9° £ 31′28	morning rise	9606 Oct 15 10:31	16° ≏ 28'46
	,	. —•••	retrograde	9607 Jan 11 02:08	17° ≙ 42'19
conjunction	9600 Sep 23 15:02	9° £ 51'09 -7°04'17	opposition	9607 Apr 03 15:26	16° £ 40'23 -5°31'28
minimum elong	9600 Sep 23 15:12	9° £ 51'10 7°04'15	min. Earth dist.	9607 Apr 04 19:25	16° £ 39'00 43.98212 AU
max. Earth dist.	9600 Sep 22 17:14	9° £ 49'52 47.05780 AU	direct	9607 Jun 24 02:55	15° £ 38'47
morning rise	9600 Oct 07 16:37	10° ≙ 10'58	evening set	9607 Sep 16 23:04	16° ≏ 49'58
retrograde	9601 Jan 04 00:19	11° ≙ 24'02			
opposition	9601 Mar 27 22:29	10° £ 22'56 -7°14'45	conjunction	9607 Oct 01 21:31	17° £ 11'27 -5°08'31
min. Earth dist.	9601 Mar 28 19:14	10° £ 21'56 44.99476 AU	minimum elong	9607 Oct 01 21:39	17° ≙ 11'28 5°08'26
direct	9601 Jun 17 13:18	9° ≙ 22'17	max. Earth dist.	9607 Sep 30 14:48	17° 2 09'36 45.88311 AU
evening set	9601 Sep 10 18:52	10° ≙ 32'49	morning rise	9607 Oct 16 21:37	17° ≏ 33'04
	,		retrograde	9608 Jan 12 10:09	18° ≏ 46'44
conjunction	9601 Sep 24 22:10	10° £ 52'46 -6°48'27	opposition	9608 Apr 03 22:46	17° - 44'36 -5°13'23
minimum elong	9601 Sep 24 22:19	10° £ 52'46 6°48'23	min. Earth dist.	9608 Apr 05 03:57	17° ≙ 43'09 43.79745 AU
max. Earth dist.	9601 Sep 23 22:25	10° £ 51'21 46.90244 AU	direct	9608 Jun 24 10:27	16° ≙ 42'47
morning rise	9601 Oct 09 03:28	11° ≙ 12'51	evening set	9608 Sep 17 04:50	17° ≙ 54'07
retrograde	9602 Jan 05 08:45	12° £ 25'58	max. Earth dist.	9608 Sep 30 21:56	18° ≙ 13'53 45.69767 AU
opposition	9602 Mar 29 04:50	11° £ 24'46 -6°58'09			
min. Earth dist.	9602 Mar 30 02:51	11° £ 23'42 44.83670 AU	conjunction	9608 Oct 02 05:57	18° £ 15'50 -4°51'03
direct	9602 Jun 18 18:41	10° £ 23'59	minimum elong	9608 Oct 02 06:04	18° £ 15'50 4°50'57
evening set	9602 Sep 11 22:43	11° ≙ 34'36	morning rise	9608 Oct 17 08:52	18° ≏ 37'41
max. Earth dist.	9602 Sep 25 05:27	11° 2 53'23 46.74379 AU	retrograde	9609 Jan 12 20:39	19° £ 51'29
man. Darun dibe.	>002 Sep 20 00.27	11 -03 23 10.7 1377 110	opposition	9609 Apr 05 06:12	18° £ 49'09 -4°55'03
conjunction	9602 Sep 26 05:37	11° £ 54'49 -6°32'22	min. Earth dist.	9609 Apr 06 11:43	18° ≙ 47'41 43.60932 AU
minimum elong	9602 Sep 26 05:46	11° £ 54'50 6°32'20	direct	9609 Jun 25 15:44	17° ≏ 47'06
morning rise	9602 Oct 10 14:16	12° ≙ 15'10	evening set	9609 Sep 18 10:54	18° ≙ 58'37
retrograde	9603 Jan 06 17:34	13° £ 28′22	max. Earth dist.	9609 Oct 02 05:04	19° 2 18'32 45.50876 AU
opposition	9603 Mar 30 11:28	12° £ 27'03 -6°41'18			.,
min. Earth dist.	9603 Mar 31 10:43	12° £ 25'55 44.67502 AU	conjunction	9609 Oct 03 14:34	19° ≏ 20'34 -4°33'20
direct	9603 Jun 20 00:21	11° ≙ 26′09	minimum elong	9609 Oct 03 14:41	19° £ 20'34 4°33'14
evening set	9603 Sep 13 02:55	12° £ 36'52	morning rise	9609 Oct 18 20:02	19° ≏ 42'39
max. Earth dist.	9603 Sep 26 11:46	12° £ 55'50 46.58132 AU	retrograde	9610 Jan 14 06:20	20° ≏ 56'36
	, , , , , , , , , , , , , , , , , , ,		opposition	9610 Apr 06 13:53	19° £ 54'04 -4°36'27
conjunction	9603 Sep 27 13:06	12° £ 57′20 -6°16′03	min. Earth dist.	9610 Apr 07 21:06	19° ≙ 52'31 43.41813 AU
minimum elong	9603 Sep 27 13:15	12° ≙ 57'21 6°16'00	direct	9610 Jun 26 22:28	18° ≏ 51'48
morning rise	9603 Oct 12 01:08	13° ≙ 17'57	evening set	9610 Sep 19 17:10	20° ჲ 03'31
retrograde	9604 Jan 08 04:49	14° £ 31'14	S	1	
opposition	9604 Mar 30 18:10	13° £ 29'48 -6°24'13	conjunction	9610 Oct 04 23:24	20° - 25'42 -4°15'22
min. Earth dist.	9604 Mar 31 17:53	13° ≏ 28'38 44.50916 AU	minimum elong	9610 Oct 04 23:30	20° £ 25'43 4°15'16
direct	9604 Jun 20 03:36	12° £ 28'45	max. Earth dist.	9610 Oct 03 14:02	20° ≏ 23'40 45.31719 AU
evening set	9604 Sep 13 07:37	13° ≏ 39'35	morning rise	9610 Oct 20 07:10	20° ≏ 48'01
•	•		retrograde	9611 Jan 15 13:44	22° ჲ 02'08
conjunction	9604 Sep 27 21:00	14° £ 00'19 -5°59'31	opposition	9611 Apr 07 21:40	20° ≏ 59'25 -4°17'35
minimum elong	9604 Sep 27 21:08	14° £ 00'19 5°59'28	min. Earth dist.	9611 Apr 09 04:36	20° ≏ 57'52 43.22450 AU
max. Earth dist.	9604 Sep 26 17:39	13° ≏ 58'41 46.41409 AU	direct	9611 Jun 28 07:38	19° ≏ 56'56
morning rise	9604 Oct 12 12:19	14° £ 21'11	evening set	9611 Sep 20 23:48	21° ≏ 08'52
retrograde	9605 Jan 08 13:53	15° ≙ 34'33	max. Earth dist.	9611 Oct 04 21:00	21° ≙ 29'08 45.12330 AU
opposition	9605 Apr 01 01:06	14° ≙ 32'58 -6°06'52			
min. Earth dist.	9605 Apr 02 03:09	14° ≙ 31'41 44.33839 AU	conjunction	9611 Oct 06 08:12	21° △ 31'17 -3°57'10
direct	9605 Jun 21 08:53	13° ≙ 31'45	minimum elong	9611 Oct 06 08:18	21° △ 31'18 3°57'04
evening set	9605 Sep 14 12:32	14° £ 42'42	morning rise	9611 Oct 21 18:27	21° ≏ 53'51
max. Earth dist.	9605 Sep 28 01:15	15° ≙ 02'00 46.24190 AU	retrograde	9612 Jan 16 23:09	23° △ 08'10
			opposition	9612 Apr 08 05:46	22° £ 05'15 -3°58'27
conjunction	9605 Sep 29 05:09	15° ♀ 03'41 -5°42'45	min. Earth dist.	9612 Apr 09 14:02	22° ≙ 03'38 43.02879 AU
minimum elong	9605 Sep 29 05:18	15° ≙ 03'41 5°42'41	direct	9612 Jun 28 15:10	21° ჲ 02'34
morning rise	9605 Oct 13 23:25	15° ≙ 24'48	evening set	9612 Sep 21 06:50	22° £ 14'45
retrograde	9606 Jan 09 18:45	16° ≏ 38'15	max. Earth dist.	9612 Oct 05 06:21	22° ≙ 35'14 44.92725 AU
opposition	9606 Apr 02 08:09	15° ≙ 36'30 -5°49'18			
min. Earth dist.	9606 Apr 03 10:33	15° ≙ 35'12 44.16257 AU	conjunction	9612 Oct 06 17:35	22° £ 37'25 -3°38'42
direct	9606 Jun 22 18:57	14° ≙ 35′06	minimum elong	9612 Oct 06 17:40	22° £ 37'25 3°38'35
evening set	9606 Sep 15 17:42	15° ≏ 46′10	morning rise	9612 Oct 22 05:48	23° ♀ 00'12

retrograde	9613 Jan 17 07:20	24° ♀ 14'46	evening set	9619 Sep 29 20:27	0°M15'14
opposition	9613 Apr 09 13:56	23° £ 11'40 -3°39'03	max. Earth dist.	9619 Oct 13 22:13	0°M36'35 43.46970 AU
min. Earth dist.	9613 Apr 10 22:45	23° ⊆ 10'00 42.83093 AU	max. Bartii dist.	7017 OCC 13 22:13	0 1103033 13.10770710
direct	9613 Jun 29 23:57	22° ≙ 08'48	conjunction	9619 Oct 15 17:58	0°M39'23 -1°22'36
evening set	9613 Sep 22 14:21	23° ♀ 21'16	minimum elong	9619 Oct 15 18:00	0°M39'23 1°22'26
max. Earth dist.	9613 Oct 06 14:41	23° º 41'53 44.72917 AU	morning rise	9619 Oct 31 16:44	1°M03'38
			retrograde	9620 Jan 26 14:21	2°M20'30
conjunction	9613 Oct 08 03:02	23° - 44′09 -3°19′59	opposition	9620 Apr 17 06:38	1°M16'00 -1°15'50
minimum elong	9613 Oct 08 03:07	23° △ 44'09 3°19'53	min. Earth dist.	9620 Apr 18 22:58	1°ML13'54 41.35736 AU
morning rise	9613 Oct 23 17:21	24° ♀ 07'09	direct	9620 Jul 07 09:08	0°ML11'30
retrograde	9614 Jan 18 20:01	25° ♀ 21'59	evening set	9620 Sep 30 07:03	1°M26'36
opposition	9614 Apr 10 22:21	24° £ 18'44 -3°19'22	max. Earth dist.	9620 Oct 14 09:23	1°M48'05 43.24665 AU
min. Earth dist.	9614 Apr 12 07:28	24° ♀ 17'03 42.63098 AU			
direct	9614 Jul 01 04:56	23° ♀ 15'40	conjunction	9620 Oct 16 05:30	1°M50'55 -1°02'12
evening set	9614 Sep 23 22:08	24° ≏ 28′28	minimum elong	9620 Oct 16 05:32	1°M50'55 1°02'01
max. Earth dist.	9614 Oct 07 23:09	24° ≏ 49'14 44.52851 AU	morning rise	9620 Nov 01 05:03	2°M15'21
			retrograde	9621 Jan 27 04:24	3°M32'36
conjunction	9614 Oct 09 12:39	24° £ 51'34 -3°01'01	opposition	9621 Apr 18 16:41	2°M27'49 -0°54'20
minimum elong	9614 Oct 09 12:44	24° ♀ 51'34 3°00'53	min. Earth dist.	9621 Apr 20 08:58	2°M25'43 41.13260 AU
morning rise	9614 Oct 25 04:46	25° ♀ 14'48	direct	9621 Jul 08 18:09	1°M23'02
retrograde	9615 Jan 20 08:36	26° ♀ 29'56	evening set	9621 Oct 01 18:12	2°M38'35
opposition	9615 Apr 12 07:11	25° ♀ 26'31 -2°59'26	max. Earth dist.	9621 Oct 15 19:07	3°M00'07 43.02081 AU
min. Earth dist.	9615 Apr 13 18:06	25° 2 24'44 42.42823 AU			
direct	9615 Jul 02 10:27	24° ჲ 23'15	conjunction	9621 Oct 17 17:11	3°M03'05 -0°41'33
evening set	9615 Sep 25 06:27	25° ≏ 36′24	minimum elong	9621 Oct 17 17:12	3°M03'05 0°41'23
max. Earth dist.	9615 Oct 09 08:58	25° ⊆ 57'21 44.32483 AU	morning rise	9621 Nov 02 17:26	3°M27'41
			retrograde	9622 Jan 28 16:42	4°M45'21
conjunction	9615 Oct 10 22:47	25° £ 59'43 -2°41'49	opposition	9622 Apr 20 03:16	3°M40'18 -0°32'35
minimum elong	9615 Oct 10 22:51	25° £ 59'44 2°41'42	min. Earth dist.	9622 Apr 21 21:16	3°M38'06 40.90552 AU
morning rise	9615 Oct 26 16:30	26° £ 23'10	direct	9622 Jul 10 04:09	2°M35'13
retrograde	9616 Jan 21 18:04	27° △ 38'38	evening set	9622 Oct 03 05:31	3°M.51'14
opposition	9616 Apr 12 16:01	26° £ 35'01 -2°39'14	max. Earth dist.	9622 Oct 17 07:18	4°M12'56 42.79286 AU
min. Earth dist.	9616 Apr 14 03:04	26° £ 33'14 42.22214 AU		0.000 0 . 10 05 05	40 W 1.515.4 0000141
direct	9616 Jul 02 20:44	25° £ 31'33	conjunction	9622 Oct 19 05:07	4°M15'54 -0°20'41
evening set	9616 Sep 25 15:25	26° £ 45'04	minimum elong	9622 Oct 19 05:07	4°M15'54 0°20'30
max. Earth dist.	9616 Oct 09 16:57	27° 2 06'05 44.11731 AU	morning rise	9622 Nov 04 05:37	4°M40'41
	0(1(0-4 11 00-10	279 0 09127 2922122	retrograde	9623 Jan 30 01:40 9623 Apr 21 14:05	5°M.58'47
conjunction minimum elong	9616 Oct 11 09:10 9616 Oct 11 09:14	27°\(\Omega\)08'37 -2°22'22 27°\(\Omega\)08'37 2°22'13	opposition min. Earth dist.	1	4°M.53'28 -0°10'33 4°M.51'15 40.67659 AU
2	9616 Oct 27 04:32	27° 2 32'17	direct	9623 Apr 23 08:02 9623 Jul 11 17:30	3°M48'04
morning rise retrograde	9617 Jan 22 04:05	27 ⊆ 32 17 28° ⊆ 48'04	evening set	9623 Oct 04 17:38	5°M04'36
opposition	9617 Apr 14 01:21	27° ♀ 44'16 -2°18'46	asc. node	9623 Oct 12 21:37	5°M17'11
min. Earth dist.	9617 Apr 14 01:21 9617 Apr 15 14:19	27° ⊆ 42′22 42.01202 AU	max. Earth dist.	9623 Oct 12 21:37 9623 Oct 18 18:05	5°M26'21 42.56333 AU
direct	9617 Jul 04 06:43	26° £ 40'34	max. Lartii dist.	7025 Oct 10 10.05	3 1102021 42.30333 AO
evening set	9617 Sep 27 00:39	27° ♀ 54'27	conjunction	9623 Oct 20 17:21	5°M29'26 0°00'29
max. Earth dist.	9617 Oct 11 03:20	28° ≙ 15'39 43.90548 AU	minimum elong	9623 Oct 20 17:21	5°M29'26 0°00'40
man. Bartir dist.	y01, 0 00 11 03.20	20 = 10 37 10.500 10 110	behind sun begin	9623 Oct 20 10:52	5°M29'02
conjunction	9617 Oct 12 19:57	28° ≏ 18'13 -2°02'41	behind sun end	9623 Oct 20 23:50	5°M29'50
minimum elong	9617 Oct 12 20:00	28° ≏ 18'13 2°02'32	morning rise	9623 Nov 05 18:14	5° ™ 54'22
morning rise	9617 Oct 28 16:27	28° ≏ 42'05	retrograde	9624 Jan 31 13:58	7°M12'58
retrograde	9618 Jan 23 12:55	29° ≏ 58'13	opposition	9624 Apr 22 01:05	6°ML07'22 0°11'43
opposition	9618 Apr 15 10:50	28° ♀ 54'12 -1°58'03	min. Earth dist.	9624 Apr 23 19:42	6°ML05'06 40.44641 AU
min. Earth dist.	9618 Apr 17 00:38	28° ≙ 52'15 41.79756 AU	direct	9624 Jul 12 03:46	5°ML01'40
direct	9618 Jul 05 17:32	27° ♀ 50'16	evening set	9624 Oct 05 06:13	6° ™ 18'45
evening set	9618 Sep 28 10:25	29° Ω 04'32	max. Earth dist.	9624 Oct 19 06:22	6°M40'36 42.33238 AU
max. Earth dist.	9618 Oct 12 12:21	29° 2 25'47 43.68955 AU			
			conjunction	9624 Oct 21 06:07	6°M43'44 0°21'49
conjunction	9618 Oct 14 06:49	29° ≏ 28'29 -1°42'45	minimum elong	9624 Oct 21 06:07	6°ML43'44 0°22'00
minimum elong	9618 Oct 14 06:52	29° ≙ 28'29 1°42'36	morning rise	9624 Nov 06 06:53	7°ML08'50
morning rise	9618 Oct 30 04:39	29° £ 52'33	retrograde	9625 Feb 01 02:52	8°M27'56
	9618 Nov 04 06:20	0°M₊	opposition	9625 Apr 23 12:38	7°M22'05 0°34'15
retrograde	9619 Jan 25 01:20	1°M09'02	min. Earth dist.	9625 Apr 25 08:17	7°M19'45 40.21492 AU
opposition	9619 Apr 16 20:33	0°ML04'47 -1°37'04	direct	9625 Jul 13 13:20	6°M16'06
min. Earth dist.	9619 Apr 18 11:14	0°ML02'47 41.57926 AU	evening set	9625 Oct 06 19:22	7°M33'45
	9619 Apr 20 16:59	30° ₹ Ω	max. Earth dist.	9625 Oct 20 18:58	7°ML55'42 42.10026 AU
direct	9619 Jul 07 01:15	29° ♀ 00'35		0/05/0 : 00 10 05	70 M 50152 004222
	9619 Sep 19 08:26	0°M.	conjunction	9625 Oct 22 19:05	7°ML58'53 0°43'23

minimum elong	9625 Oct 22 19:04	7°M58'53	0°43'35	min. Earth dist.	9632 May 04 09:30	16°M29'45	38.53345 AU
morning rise	9625 Nov 07 19:39	8°M24'07		direct	9632 Jul 21 23:06	15°M24'19	
retrograde	9626 Feb 02 18:09	9°M43'48		evening set	9632 Oct 16 10:29	16°M47'08	
opposition	9626 Apr 25 00:19	8°M37'41	0°57'01	max. Earth dist.	9632 Oct 29 18:58	17° M 09'08	40.40646 AU
min. Earth dist.	9626 Apr 26 19:46	8°M35'21	39.98222 AU				
direct	9626 Jul 14 23:11	7°M31'25		conjunction	9632 Nov 01 02:27	17°M12'59	3°20'17
evening set	9626 Oct 08 09:12	8°M49'42		minimum elong	9632 Nov 01 02:20	17°M12'59	3°20'32
max. Earth dist.	9626 Oct 22 06:42	9° M 11'40	41.86658 AU	morning rise	9632 Nov 16 18:32	17° M 38'54	
				retrograde	9633 Feb 12 08:05	19°M03'26	
conjunction	9626 Oct 24 08:28	9°M14'59	1°05'10	opposition	9633 May 03 21:43	17°M55'16	3°42'58
minimum elong	9626 Oct 24 08:26	9°M14'59	1°05'22	min. Earth dist.	9633 May 05 23:50	17°M52'29	38.28258 AU
morning rise	9626 Nov 09 08:37	9°M40'21		direct	9633 Jul 23 15:01	16°M46'40	
retrograde	9627 Feb 04 10:27	11°M00'37		evening set	9633 Oct 18 05:10	18°M10'22	
opposition	9627 Apr 26 12:33	9°M54'15	1°20'02	max. Earth dist.	9633 Oct 31 09:19	18°M32'15	40.15389 AU
min. Earth dist.	9627 Apr 28 09:43	9° M 51'49	39.74786 AU				
direct	9627 Jul 16 09:41	8°M47'42		conjunction	9633 Nov 02 18:46	18°M36'16	3°43'28
evening set	9627 Oct 09 23:33	10°M06'40		minimum elong	9633 Nov 02 18:39	18°M36'15	3°43'44
max. Earth dist.	9627 Oct 23 20:46	10°M28'45	41.63085 AU	morning rise	9633 Nov 18 08:41	19°M02'13	
				retrograde	9634 Feb 14 02:11	20°M27'34	
conjunction	9627 Oct 25 22:22	10°M32'04	1°27'11	opposition	9634 May 05 12:41	19°M19'04	4°07'31
minimum elong	9627 Oct 25 22:19	10°M32'04	1°27'24	min. Earth dist.	9634 May 07 16:14	19°M16'11	38.03029 AU
morning rise	9627 Nov 10 21:43	10°M57'34		direct	9634 Jul 25 06:00	18°MJ0'04	
retrograde	9628 Feb 06 00:33	12°M18'28		evening set	9634 Oct 20 00:27	19°M34'42	
opposition	9628 Apr 27 01:04	11°M11'51	1°43'18	max. Earth dist.	9634 Nov 02 02:35	19°M56'36	39.90007 AU
min. Earth dist.	9628 Apr 28 22:22		39.51108 AU				
direct	9628 Jul 16 23:32	10°M05'00		conjunction	9634 Nov 04 11:43	20°M00'38	4°06'49
evening set	9628 Oct 10 14:55	11°M24'41		minimum elong	9634 Nov 04 11:35	20°M00'37	4°07'04
max. Earth dist.	9628 Oct 24 08:53	11°M46'42	41.39228 AU	morning rise	9634 Nov 19 22:53	20°M26'36	
				retrograde	9635 Feb 15 17:59	21°M52'50	
conjunction	9628 Oct 26 12:42	11°M50'12	1°49'24	opposition	9635 May 07 04:05	20°M43'58	
minimum elong	9628 Oct 26 12:38	11°M50'12	1°49'37	min. Earth dist.	9635 May 09 07:43		37.77713 AU
morning rise	9628 Nov 11 11:15	12°M15'48		direct	9635 Jul 26 22:18	19°M34'36	
retrograde	9629 Feb 06 15:37	13°M37'23		evening set	9635 Oct 21 20:37	21°M00'12	
opposition	9629 Apr 28 13:55	12°M30'29	2°06'47	max. Earth dist.	9635 Nov 03 18:40	21°IIL21'59	39.64570 AU
min. Earth dist.	9629 Apr 30 12:49		39.27137 AU		062531 06 04 57	210 M 26100	4020110
direct	9629 Jul 18 11:14	11°M23'19		conjunction	9635 Nov 06 04:57	21°M26'08	4°30'19
evening set	9629 Oct 12 06:48	12°M43'44	41 15027 ATT	minimum elong	9635 Nov 06 04:49	21°M26'07	4°30'35
max. Earth dist.	9629 Oct 25 23:05	13*11605'48	41.15037 AU	morning rise	9635 Nov 21 13:24	21°M52'07	
aaniumatian	0620 Oat 28 02:27	12011 00122	2011/50	retrograde	9636 Feb 17 11:16	23°M19'16 22°M10'04	4957100
conjunction minimum elong	9629 Oct 28 03:37 9629 Oct 28 03:33	13°M09'22 13°M09'22	2°11'50 2°12'04	opposition min. Earth dist.	9636 May 07 19:55 9636 May 09 23:57		4 37 09 37.52377 AU
morning rise	9629 Nov 13 00:49	13°M35'04	2 12 04	direct	9636 Jul 27 12:30	21°M00'18	31.32311 AU
retrograde	9630 Feb 08 04:47	14°M57'20		evening set	9636 Oct 22 17:37	22°M26'55	
opposition	9630 Apr 30 03:23	13°M50'09	2°30'30	max. Earth dist.	9636 Nov 04 12:01		39.39100 AU
min. Earth dist.	9630 May 02 03:21		39.02829 AU	max. Lartii dist.	70301101 04 12.01	22 110-1037	37.37100710
direct	9630 Jul 20 00:34	12°M42'39	37.02027 110	conjunction	9636 Nov 06 22:55	22°M52'51	4°53'56
evening set	9630 Oct 13 23:16	14°ML03'50		minimum elong	9636 Nov 06 22:46	22°M52'50	4°54'12
max. Earth dist.	9630 Oct 27 12:55		40.90527 AU	morning rise	9636 Nov 22 04:01	23°M18'48	1 3112
Law dist.	3 12 1 2 2 2 1 12.22	110-20 02		retrograde	9637 Feb 18 05:02	24°M46'57	
conjunction	9630 Oct 29 18:38	14°M29'33	2°34'27	opposition	9637 May 09 12:17	23°M37'24	5°22'12
minimum elong	9630 Oct 29 18:34	14°M29'32	2°34'41	min. Earth dist.	9637 May 11 17:17		37.27039 AU
morning rise	9630 Nov 14 14:30	14°M55'20		direct	9637 Jul 29 02:11	22°M27'15	
. 8	9630 Nov 17 12:48	15° ™		evening set	9637 Oct 24 15:29	23°M54'57	
retrograde	9631 Feb 09 21:46	16°M18'20		max. Earth dist.	9637 Nov 06 06:26		39.13654 AU
opposition	9631 May 01 17:07	15°M10'50	2°54'27				
min. Earth dist.	9631 May 03 17:27		38.78223 AU	conjunction	9637 Nov 08 17:18	24°M20'51	5°17'40
	9631 May 09 22:57	15°RM₊	-	minimum elong	9637 Nov 08 17:08	24°M20'50	5°17'57
direct	9631 Jul 21 11:39	14°M02'59		morning rise	9637 Nov 23 18:52	24°M46'46	
	9631 Sep 29 11:56	15° ™		retrograde	9638 Feb 20 01:45	26°M15'57	
evening set	9631 Oct 15 16:33	15°M24'57		opposition	9638 May 11 05:08	25°M06'04	5°47'23
max. Earth dist.	9631 Oct 29 02:57		40.65707 AU	min. Earth dist.	9638 May 13 09:34		37.01732 AU
				direct	9638 Jul 30 16:01	23°M55'32	
conjunction	9631 Oct 31 10:18	15°M50'45	2°57'17	evening set	9638 Oct 26 14:08	25°M24'24	
minimum elong	9631 Oct 31 10:13	15°M50'45	2°57'32	max. Earth dist.	9638 Nov 07 23:50	25°M45'52	38.88206 AU
morning rise	9631 Nov 16 04:27	16°M16'37					
retrograde	9632 Feb 11 14:54	17°M40'22		conjunction	9638 Nov 10 12:04	25°M50'14	5°41'30
opposition	9632 May 02 07:15	16°M32'32	3°18'36	minimum elong	9638 Nov 10 11:53	25°M50'14	5°41'47

morning rise	9638 Nov 25 09:48	26°M16'06		direct	9645 Aug 09 23:56	4° ₹ ′54'00	
retrograde	9639 Feb 21 23:00	27°M46'23		evening set	9645 Nov 08 09:59	6° ₹ ³32'22	
opposition	9639 May 12 22:38	26°M36'10	6°12'40	max. Earth dist.	9645 Nov 19 00:28		37.07593 AU
min. Earth dist.	9639 May 15 04:36		36.76422 AU	max. Earth dist.	70121101 17 00.20	0 7 3133	37.07373710
direct	9639 Aug 01 07:45	25°M25'15	20.70.22110	conjunction	9645 Nov 21 18:10	6° ₹ '57'00	8°29'44
evening set	9639 Oct 28 13:51	26°M55'20		minimum elong	9645 Nov 21 17:53	6° ≯ 56'58	8°30'03
max. Earth dist.	9639 Nov 09 19:53		38.62725 AU	morning rise	9645 Dec 05 01:38	7° ₹ 21'36	0 30 03
max. Latur dist.	7037 1101 07 17.33	27 1101042	30.02723 AC	retrograde	9646 Mar 05 11:07	9°×700'51	
conjunction	9639 Nov 12 07:44	27°M21'05	6°05'26	opposition	9646 May 23 16:44	7°×7'47'53	9°11'25
minimum elong	9639 Nov 12 07:44 9639 Nov 12 07:32	27°M21'04	6°05'43	min. Earth dist.	9646 May 26 03:06		34.96900 AU
Č		27 11621 04 27°11646'52	0 03 43	direct	•	6° × 33'51	34.90900 AU
morning rise	9639 Nov 27 01:05				9646 Aug 11 20:20	8° × '33'31	
retrograde	9640 Feb 23 20:25	29°M18'16	(020102	evening set	9646 Nov 10 16:50		26 01672 ATT
opposition	9640 May 13 16:29	28°M07'43	6°38'03	max. Earth dist.	9646 Nov 21 01:11	8°×'33'03	36.81673 AU
min. Earth dist.	9640 May 15 22:24		36.51055 AU		064637 22 10 00	00 3000	0050140
direct	9640 Aug 02 03:18	26°M56'26		conjunction	9646 Nov 23 18:00	8°×38'07	8°53'40
evening set	9640 Oct 29 14:46	28°M27'46		minimum elong	9646 Nov 23 17:44	8° ≯ 38′06	8°54'00
max. Earth dist.	9640 Nov 10 14:09	28°11L48'51	38.37148 AU	morning rise	9646 Dec 06 18:06	9° ∡ *02′23	
				retrograde	9647 Mar 07 12:07	10° ≯ 43′08	
conjunction	9640 Nov 13 03:55	28°M53'26	6°29'25	opposition	9647 May 25 14:55	9° ∡ ¹29'45	9°36'52
minimum elong	9640 Nov 13 03:43	28°M53'25	6°29'42	min. Earth dist.	9647 May 28 00:50		34.71279 AU
morning rise	9640 Nov 27 16:48	29°M19'05		direct	9647 Aug 13 19:54	8° ≯ 15'13	
	9640 Dec 22 19:22	0° ∡ ¹		evening set	9647 Nov 13 01:09	9° ₹ 56'52	
retrograde	9641 Feb 24 19:07	0° ∡ 751'41		max. Earth dist.	9647 Nov 23 00:33	10° ∡ 15'36	36.55912 AU
	9641 May 01 13:34	30°RM₊					
opposition	9641 May 15 11:04	29°M40'47	7°03'32	conjunction	9647 Nov 25 18:30	10° ≯ 20'48	9°17'29
min. Earth dist.	9641 May 17 18:13	29°M37'34	36.25586 AU	minimum elong	9647 Nov 25 18:12	10° ∡ ¹20'47	9°17'48
direct	9641 Aug 03 21:16	28°M29'04		morning rise	9647 Dec 08 11:03	10° ∡ ¹44'42	
	9641 Oct 30 16:53	0° ∡ ¹		retrograde	9648 Mar 08 14:19	12° ∡ ¹27′02	
evening set	9641 Oct 31 16:26	0° ∡ 101'43		opposition	9648 May 26 13:37	11° ∡ 13'13	10°02'11
max. Earth dist.	9641 Nov 12 10:46	0° х 22′36	38.11426 AU	min. Earth dist.	9648 May 28 23:55	11° √ 09'39	34.45870 AU
				direct	9648 Aug 14 17:22	9° √ 58'12	
conjunction	9641 Nov 15 00:46	0° ∡ °27'14	6°53'27	evening set	9648 Nov 14 10:33	11° х 41'37	
minimum elong	9641 Nov 15 00:33	0° ₹ 27'13	6°53'46	max. Earth dist.	9648 Nov 24 02:23		36.30369 AU
morning rise	9641 Nov 29 08:25	0° х 52'46	0 33 10	max. Earth dist.	90101101 21 02.23	11 7 37 30	30.30307110
retrograde	9642 Feb 26 14:19	2°×726'35		conjunction	9648 Nov 26 19:52	12° ₹ '05'08	9°41'07
opposition	9642 May 17 06:19	1°×715'18	7°29'04	minimum elong	9648 Nov 26 19:34	12° × 05'07	9°41'27
min. Earth dist.	9642 May 19 14:10		35.99973 AU	morning rise	9648 Dec 09 04:03	12° × 03'07	7 41 27
direct	9642 Aug 05 16:26	0° ₹ 03'10	33.99913 AU	retrograde	9649 Mar 10 14:23	14° 🖈 12'37	
	9642 Nov 02 19:18	1°×737'10		-		14 x ·1237 12° x 58'24	10027110
evening set			27.05500 ATT	opposition	9649 May 28 13:15		
max. Earth dist.	9642 Nov 14 07:07	1° x '3/43	37.85580 AU	min. Earth dist.	9649 May 30 23:36		34.20713 AU
	064031 16 22 00	20 70221	7017122	direct	9649 Aug 16 16:16	11° ∡ 42'55	
conjunction	9642 Nov 16 22:09	2°×702'31	7°17'32	evening set	9649 Nov 16 21:12	13° 🗷 28'11	26.05115.411
minimum elong	9642 Nov 16 21:56	2°×102'30	7°17'51	max. Earth dist.	9649 Nov 26 04:13	13° × '45'58	36.05115 AU
morning rise	9642 Dec 01 00:29	2° ₹ 27'51					
retrograde	9643 Feb 28 11:44	4° ₹ 02'57		conjunction	9649 Nov 28 21:39	13° x 51'14	10°04'32
opposition	9643 May 19 01:57	2° ₹ 51'17	7°54'40	minimum elong	9649 Nov 28 21:20	13° ∡ ′51′13	10°04'52
min. Earth dist.	9643 May 21 10:04		35.74257 AU	morning rise	9649 Dec 10 21:09	14° ∤ 14'14	
direct	9643 Aug 07 10:23	1° ≯ 38'41		retrograde	9650 Mar 12 17:38	16° ₰ 00'00	
evening set	9643 Nov 04 23:03	3° ≯ 14'04		opposition	9650 May 30 13:27	14° ₹ 45'24	10°52'12
max. Earth dist.	9643 Nov 16 03:57	3° ≯ 34'20	37.59616 AU	min. Earth dist.	9650 Jun 01 23:03		33.95865 AU
				direct	9650 Aug 18 14:14	13° ∡ 29′28	
conjunction	9643 Nov 18 20:13	3° ∡ ³39'14	7°41'38	evening set	9650 Nov 19 09:06	15° ≯ 16'40	
minimum elong	9643 Nov 18 19:58	3° ₹ 39'12	7°41'57	max. Earth dist.	9650 Nov 28 06:40	15° ∡ ³33'53	35.80151 AU
morning rise	9643 Dec 02 16:41	4° ₰ 04'21					
retrograde	9644 Mar 01 09:45	5° ∡ ¹40'47		conjunction	9650 Dec 01 00:24	15° ∡ ³39'13	10°27'42
opposition	9644 May 19 22:23	4° ∡ ¹28'42	8°20'16	minimum elong	9650 Dec 01 00:05	15° ∡ ³39'11	10°28'03
min. Earth dist.	9644 May 22 08:00	4° ₹ 25'16	35.48458 AU	morning rise	9650 Dec 12 14:36	16° ₰ 01'42	
direct	9644 Aug 08 03:40	3° ∡ 15′38		retrograde	9651 Mar 14 20:36	17° ∡ ¹49'19	
evening set	9644 Nov 06 04:00	4° ≯ 52′28		opposition	9651 Jun 01 14:27	16° ₰ ³34'20	11°16'49
max. Earth dist.	9644 Nov 17 02:46	5° ∡ 12'27	37.33602 AU	min. Earth dist.	9651 Jun 04 00:59	16° ∡ ³30'40	33.71313 AU
				direct	9651 Aug 20 11:12	15° ∡ 17'58	
conjunction	9644 Nov 19 18:57	5° х 17′23	8°05'42	evening set	9651 Nov 21 22:32	17° ∡ °07'13	
minimum elong	9644 Nov 19 18:42	5° ∡ 17'22	8°06'01	max. Earth dist.	9651 Nov 30 10:57	17° ∡ ¹23'51	35.55477 AU
morning rise							
~	9644 Dec 03 09:03	5° ∡ ¹42'16					
retrograde	9644 Dec 03 09:03 9645 Mar 03 09:35	5° ₹ 42'16 7° ₹ 20'04		conjunction	9651 Dec 03 03:57	17° ∡ ¹29'11	10°50'33
•			8°45'52	conjunction minimum elong	9651 Dec 03 03:57 9651 Dec 03 03:37	17° ҂ 29'11 17° ҂ 29'09	10°50'33 10°50'54
retrograde opposition min. Earth dist.	9645 Mar 03 09:35	7° х 20′04 6° х 07′33	8°45'52 35.22647 AU	-			

ratra ara da	0652 Mar. 16, 01:52	19° ∡ ¹40'39		arranina aat	9658 Dec 09 15:04	0° る 59'49	
retrograde	9652 Mar 16 01:52		11041107	evening set			22 00220 ATT
opposition	9652 Jun 02 16:09	18° 🗷 25'18	11°41'07	max. Earth dist.	9658 Dec 14 10:19	1°009'53	33.89238 AU
min. Earth dist.	9652 Jun 05 01:49	18° ∡ ′21'40	33.47025 AU			🗕	
direct	9652 Aug 21 12:46	17° ∡ 08′29		conjunction	9658 Dec 17 03:13		13°18'32
evening set	9652 Nov 23 13:23	18° ₹ 59'52		minimum elong	9658 Dec 17 02:54	1° る 15'33	13°18'54
max. Earth dist.	9652 Dec 01 14:04	19° ∡ 15'44	35.31024 AU	morning rise	9658 Dec 24 14:25	1° る 31'16	
				retrograde	9659 Mar 31 08:51	3° ⋜ 36'34	
conjunction	9652 Dec 04 08:17	19° ∡ ¹21'12	11°13'05	opposition	9659 Jun 17 02:54	2° る 18'22	14°18'12
minimum elong	9652 Dec 04 07:57	19° ∡ "21′10	11°13'27	min. Earth dist.	9659 Jun 19 12:14	2°る14'35	31.83767 AU
morning rise	9652 Dec 15 02:10	19° ∡ ¹42'28		direct	9659 Sep 04 16:29	0°る58'14	
retrograde	9653 Mar 18 09:08	21° х 34'02		evening set	9659 Dec 12 17:28	3° ට 06'59	
opposition	9653 Jun 04 18:43	20° × 18'19	12°05'04	max. Earth dist.	9659 Dec 16 20:04		33.66886 AU
* *				max. Lartii dist.	9039 DCC 10 20.04	3 01340	33.00880 AU
min. Earth dist.	9653 Jun 07 05:29		33.22956 AU				
direct	9653 Aug 23 13:21	19° ∡ '01'04		conjunction	9659 Dec 19 13:08	3° 云 21'26	13°37'14
evening set	9653 Nov 26 05:43	20° ₹ 54'40		minimum elong	9659 Dec 19 12:48	3° る 21'24	13°37'36
max. Earth dist.	9653 Dec 03 20:18	21° ₹ 09'50	35.06775 AU	morning rise	9659 Dec 26 07:54	3° る 35'48	
				retrograde	9660 Apr 01 18:52	5°₹43'46	
conjunction	9653 Dec 06 13:33	21° ∡ 15′17	11°35'14	opposition	9660 Jun 18 11:09	4° る 25'08	14°37'58
minimum elong	9653 Dec 06 13:12	21° ₹ 15'16	11°35'35	min. Earth dist.	9660 Jun 20 20:53	4° ਰ 21'18	31.61971 AU
morning rise	9653 Dec 16 20:08	21° х 35'51		direct	9660 Sep 05 21:18	3° ප 04'31	
retrograde	9654 Mar 20 15:14	23° × ⁷ 29'30		evening set	9660 Dec 14 22:15	5° ਰ 16'13	
•			12020127	•			22 4510C ATT
opposition	9654 Jun 06 22:09	22° ∡ 13′23	12°28'36	max. Earth dist.	9660 Dec 18 08:37	5°623'33	33.45106 AU
min. Earth dist.	9654 Jun 09 08:18		32.99080 AU				
direct	9654 Aug 25 16:57	20° ₹ 55'41		conjunction	9660 Dec 20 23:50	5° る 29'11	13°55'07
evening set	9654 Nov 28 23:27	22° ∡ ¹51'34		minimum elong	9660 Dec 20 23:31	5° る 29'10	13°55'29
max. Earth dist.	9654 Dec 06 00:59	23° ∡ 05'49	34.82725 AU	morning rise	9660 Dec 27 00:30	5° る 42'07	
				retrograde	9661 Apr 04 05:52	7° る 52'52	
conjunction	9654 Dec 08 19:22	23° ∡ 11′25	11°56'58	opposition	9661 Jun 20 20:07	6° る 33'50	14°56'50
minimum elong	9654 Dec 08 19:02	23° ≮ 11′23	11°57'19	min. Earth dist.	9661 Jun 23 04:06		31.40772 AU
morning rise	9654 Dec 18 14:18	23° × ⁷ 31'11	11 37 17	direct	9661 Sep 08 06:47	5° ප 12'46	31.10772710
•						7°る27'37	
retrograde	9655 Mar 22 23:53	25° ∡ 27'00	10051110	evening set	9661 Dec 18 05:35		22 22271 177
opposition	9655 Jun 09 02:21	24° ∡ 10′28	12°51'42	max. Earth dist.	9661 Dec 20 19:55	7° 6 33'13	33.23971 AU
min. Earth dist.	9655 Jun 11 13:01	24° ≯ ¹06'43	32.75417 AU				
direct	9655 Aug 27 19:50	22° ∡ ¹52'18		conjunction	9661 Dec 23 11:14	7° る 38'55	14°12'05
evening set	9655 Dec 01 18:52	24° ₹ ′50'33		minimum elong	9661 Dec 23 10:55	7° る 38'53	14°12'26
max. Earth dist.	9655 Dec 08 08:32	25° х¹ 03'56	34.58884 AU	morning rise	9661 Dec 28 16:07	7° る 50'10	
				retrograde	9662 Apr 06 19:21	10°る03'57	
conjunction	9655 Dec 11 02:18	25° ₹ 109'32	12°18'13	opposition	9662 Jun 23 06:01	8° ਰ 44'32	15°14'41
minimum elong	9655 Dec 11 01:57	25°×709'30	12°18'34	min. Earth dist.	9662 Jun 25 13:37		31.20247 AU
C			12 10 34				31.2024/ AU
morning rise	9655 Dec 20 08:32	25° ₹ 28'26		direct	9662 Sep 10 15:17	7°る23'01	
retrograde	9656 Mar 24 07:10	27° ∡ ¹26'28		evening set	9662 Dec 21 16:38	9° ප 41'20	
opposition	9656 Jun 10 07:18	26° ₹ 09'32	13°14'16	max. Earth dist.	9662 Dec 23 10:29	9° ℃ 45'08	33.03530 AU
min. Earth dist.	9656 Jun 12 18:07	26° ₹ 05'44	32.51982 AU				
direct	9656 Aug 29 01:05	24° ₹ ¹50'54		conjunction	9662 Dec 25 23:31	9° る 50'40	14°28'03
evening set	9656 Dec 03 16:01	26° ₹ 51'37		minimum elong	9662 Dec 25 23:14	9° る 50'39	14°28'25
max. Earth dist.	9656 Dec 09 15:43	27° х 03′56	34.35316 AU	morning rise	9662 Dec 30 05:42	9° る 59'57	
				retrograde	9663 Apr 09 07:54	12° る 17'02	
conjunction	9656 Dec 12 09:53	27° ∡ ¹09'38	12°38'57	opposition	9663 Jun 25 16:45	10° る 57'16	15°31'27
minimum elong	9656 Dec 12 09:32	27° × ⁷ 09'36	12°39'19	min. Earth dist.	9663 Jun 27 23:07		31.00396 AU
Č			12 37 17			9° そ 35'22	31.00370 AC
morning rise	9656 Dec 21 02:45	27° 🖈 27'33		direct	9663 Sep 13 01:57		
retrograde	9657 Mar 26 16:47	29° ∡ ¹27'55 −		evening set	9663 Dec 25 09:30	11° ठ 57'37	
opposition	9657 Jun 12 13:02	28° ≯ 10'34	13°36'16	max. Earth dist.	9663 Dec 25 23:45	11° ℃ 58'55	32.83786 AU
min. Earth dist.	9657 Jun 14 23:15	28° ₰ 06'47	32.28855 AU				
direct	9657 Aug 31 05:40	26° ₹ ¹51'26		conjunction	9663 Dec 28 12:37	12° る 04'30	14°42'58
evening set	9657 Dec 06 14:29	28° ∡ ¹54'42		minimum elong	9663 Dec 28 12:20	12° る 04'28	14°43'19
max. Earth dist.	9657 Dec 12 00:15	29° ∡ 05'55	34.12068 AU	morning rise	9663 Dec 31 15:08	12° る 11'19	
				retrograde	9664 Apr 10 23:43	14° ප 32'11	
conjunction	9657 Dec 14 18:08	29° ∡ 11'39	12°59'04	opposition	9664 Jun 27 04:11	13° ප 12'06	15°47'05
minimum elong	9657 Dec 14 17:47	29° 🖈 11'37	12°59'26	min. Earth dist.	9664 Jun 29 09:41		30.81227 AU
Č			14 37 40				JU.0144/ AU
morning rise	9657 Dec 22 20:42	29° ₹ 28'30		direct	9664 Sep 14 12:17	11°る49'50	
	9658 Jan 07 09:39	0°₹		evening set	9664 Dec 28 19:22	14° る 17'32	
retrograde	9658 Mar 28 23:13	1° る 31'18		max. Earth dist.	9664 Dec 27 15:37	14° る 14'58	32.64702 AU
opposition	9658 Jun 14 19:42	0° る 13'31	13°57'36				
min. Earth dist.	9658 Jun 17 06:22	0° る 09'40	32.06085 AU	conjunction	9664 Dec 30 02:43	14° る 20'25	14°56'47
	9658 Jun 23 10:51	30°₽ ᡘ ᠯ		minimum elong	9664 Dec 30 02:28	14° る 20'24	14°57'08
direct	9658 Jun 23 10:51			•	9664 Dec 30 02:28 9664 Dec 31 09:34	14° ට 20'24 14° ට 23'17	14°57'08
direct		30°R ✓		minimum elong morning rise retrograde			14°57'08

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opposition	9665 Jun 29 16:43			opposition	9673 Jul 18 23:10	4° ≈ 48'33	17°04'42
min. Earth dist.	9665 Jul 01 21:48	15° ප් 25'24 30.6		min. Earth dist.	9673 Jul 20 17:51		29.38917 AU
direct	9665 Sep 17 00:16	14° る 06'24		direct	9673 Oct 06 00:30	3° ≈ 23′23	
max. Earth dist.	9665 Dec 30 06:49	16°る32'57 32.4	16269 AU	max. Earth dist.	9674 Jan 19 18:08	6° ≈ 00'04	31.24697 AU
conjunction	9666 Jan 01 17:18	16° る 38'25 15°0	09'25	conjunction	9674 Jan 21 15:09	6° ≈ 04'29	16°00'25
minimum elong	9666 Jan 01 17:02	16°る38'23 15°0	09'46	minimum elong	9674 Jan 21 15:07	6° ≈ 04'29	16°00'43
retrograde	9666 Apr 16 07:13	19° る 08'39		retrograde	9674 May 06 03:31	8° ≈ 42'36	
opposition	9666 Jul 02 05:57	17° る 47'58 16°	14'37	opposition	9674 Jul 21 17:54	7° ≈ 19'49	17°04'57
min. Earth dist.	9666 Jul 04 09:27	17°る44'27 30.4	14774 AU	min. Earth dist.	9674 Jul 23 10:40	7° ≈ 16'56	29.27350 AU
direct	9666 Sep 19 12:53	16° る 25'00		direct	9674 Oct 08 20:24	5° ≈ 54'27	
max. Earth dist.	9667 Jan 01 23:34	18°る53'00 32.2	28455 AU	max. Earth dist.	9675 Jan 22 15:30	8° ≈ 32'02	31.13688 AU
conjunction	9667 Jan 04 08:57		20'49	conjunction	9675 Jan 24 10:59	8° ≈ 36′20	15°59'30
minimum elong	9667 Jan 04 08:44	18° る 58'22 15°2	21'10	minimum elong	9675 Jan 24 11:02	8° ≈ 36′20	15°59'48
retrograde	9667 Apr 18 22:02	21° る 29'50		retrograde	9675 May 09 00:23	11° ≈ 15′06	
opposition	9667 Jul 04 20:02	20°පි08'52 16°2	26'25	opposition	9675 Jul 24 12:49	9° ≈ 52'10	17°03'16
min. Earth dist.	9667 Jul 06 23:36	20° る 05'19 30.2	27467 AU	min. Earth dist.	9675 Jul 26 02:55	9° ≈ 49'29	29.16877 AU
direct	9667 Sep 22 01:04	18° る 45'33		direct	9675 Oct 11 15:23	8° ≈ 26'38	
max. Earth dist.	9668 Jan 04 17:16	21° る 14'57 32.1	1294 AU	max. Earth dist.	9676 Jan 25 15:04	11° ≈ 05′15	31.03794 AU
conjunction	9668 Jan 07 01:19	21° ට 20'15 15°	30'55	conjunction	9676 Jan 27 07:24	11° ≈ 09'15	15°56'47
minimum elong	9668 Jan 07 01:06	21° ට 20'14 15°	31'16	minimum elong	9676 Jan 27 07:27	11° ≈ 09'15	15°57'05
retrograde	9668 Apr 20 15:43	23° る 52'51		retrograde	9676 May 10 20:33	13° ≈ 48'36	
opposition	9668 Jul 06 10:51	22° පි 31'36 16°	36'48	opposition	9676 Jul 26 08:30	12° ≈ 25'34	16°59'38
min. Earth dist.	9668 Jul 08 12:28	22° පි 28'10 30.1	10797 AU	min. Earth dist.	9676 Jul 27 21:10	12° ≈ 22'58	29.07480 AU
direct	9668 Sep 23 15:32	21° る 07'56		direct	9676 Oct 13 10:58	10°≈59'56	
max. Earth dist.	9669 Jan 06 10:56	23° ප 38'37 31.9	94794 AU	max. Earth dist.	9677 Jan 27 13:33	13° ≈ 39'20	30.95014 AU
conjunction	9669 Jan 08 18:16	23° ප් 43'54 15°3	39'40	conjunction	9677 Jan 29 03:51	13° ≈ 43'08	15°52'15
minimum elong	9669 Jan 08 18:06	23°る43'53 15°4	40'00	minimum elong	9677 Jan 29 03:58	13° ≈ 43'09	15°52'32
retrograde	9669 Apr 23 07:57	26° る 17'36		· ·	9677 Mar 03 16:43	15° ≈	
opposition	9669 Jul 09 02:31	24° る 56'03 16°4	45'41	retrograde	9677 May 13 18:35	16° ≈ 22'59	
min. Earth dist.	9669 Jul 11 04:03	24° る 52'36 29.9		opposition	9677 Jul 29 04:25	14° ≈ 59'52	16°54'02
direct	9669 Sep 26 04:18	23° ප 32'02	1005 710	оррозион	9677 Jul 29 02:38	15°R≈	10 3 1 02
max. Earth dist.	9670 Jan 09 06:47	26° ප 04'05 31.7	79035 ATT	min. Earth dist.	9677 Jul 30 14:01	-	28.99148 AU
max. Lartii dist.	7070 Jun 07 00.47	20 00+03 31.7		direct	9677 Oct 16 08:01	13°≈34'10	20.77140710
conjunction	9670 Jan 11 11:53	26° පි 09'11 15°4	46'58	uncet	9677 Dec 29 02:05	15° ≈	
3	9670 Jan 11 11:44	26°පි09'10 15°4		max. Earth dist.	9678 Jan 30 13:11		30.87297 AU
minimum elong retrograde	9670 Apr 26 00:55	28°る43'55	4/10	max. Earth dist.	90/6 Jan 30 13.11	10 ≈14 20	30.87297 AU
opposition	9670 Apr 20 00:33 9670 Jul 11 18:42		52'59	conjunction	0679 Eab 01 00:46	16° ≈ 17'52	15015151
				3	9678 Feb 01 00:46		15°45'54
min. Earth dist.	9670 Jul 13 18:03	27° 궁 18'47 29.7		minimum elong	9678 Feb 01 00:54	16°≈17'53	15°46'11
direct	9670 Sep 28 21:27	25° る 57'46		retrograde	9678 May 16 14:05	18°≈58'07	1.004.000
max. Earth dist.	9671 Jan 12 01:27	28° පි 30'57 31.6		opposition	9678 Aug 01 00:48	17°≈34'57	16°46'28
	0.651 7 14 05 50	20072001 150		min. Earth dist.	9678 Aug 02 09:23	17°≈32'38	28.91840 AU
conjunction	9671 Jan 14 05:56			direct	9678 Oct 19 03:28	16° ≈ 09'11	
minimum elong	9671 Jan 14 05:50		253'06		0.50 5 1 00 01 51	100 50116	1.500.514.4
	9671 Feb 21 09:12	0° ≈		conjunction	9679 Feb 03 21:51	18°≈53'16	15°37'44
retrograde	9671 Apr 28 18:55	1°≈11'42		minimum elong	9679 Feb 03 22:02	18° ≈ 53'17	15°37'59
	9671 Jul 08 06:27	30°Ŗ る		max. Earth dist.	9679 Feb 02 12:40		30.80631 AU
opposition	9671 Jul 14 11:37			retrograde	9679 May 19 11:55	21° ≈ 33'48	
min. Earth dist.	9671 Jul 16 10:13	29° ろ 46'20 29.6		opposition	9679 Aug 03 21:24	20° ≈ 10′36	16°36'57
direct	9671 Oct 01 13:05	28° る 24'57		min. Earth dist.	9679 Aug 05 02:56	20°≈08'30	28.85526 AU
	9671 Dec 19 15:57	0° ≈		direct	9679 Oct 22 01:25	18° ≈ 44'47	
max. Earth dist.	9672 Jan 14 23:08	0°≈59′26 31.4	19962 AU	max. Earth dist.	9680 Feb 05 12:00	21° ≈ 26′01	30.74968 AU
conjunction	9672 Jan 17 00:41	1°≈04'15 15°:		conjunction	9680 Feb 06 19:07	21° ≈ 29′08	15°27'46
minimum elong	9672 Jan 17 00:36		257'18	minimum elong	9680 Feb 06 19:19	21° ≈ 29′09	15°28'01
retrograde	9672 Apr 30 12:51	3° ≈ 40′48		retrograde	9680 May 21 08:25	24° ≈ 09'51	
opposition	9672 Jul 16 05:04	2°≈18'27 17°0	02'35	opposition	9680 Aug 05 18:20	22° ≈ 46′36	16°25'29
min. Earth dist.	9672 Jul 18 01:33	2°≈15′20 29.5	51516 AU	min. Earth dist.	9680 Aug 06 22:41	22° ≈ 44'35	28.80200 AU
direct	9672 Oct 03 06:46	0° ≈ 53'32		direct	9680 Oct 23 21:01	21° ≈ 20'45	
max. Earth dist.	9673 Jan 16 19:14	3° ≈ 29′02 31.3	86811 AU				
				conjunction	9681 Feb 08 16:26	24° ≈ 05'15	15°16'01
conjunction	9673 Jan 18 19:42	3° ≈ 33'46 15°:	259'33	minimum elong	9681 Feb 08 16:41	24° ≈ 05′16	15°16'15
minimum elong	9673 Jan 18 19:40	3° ≈ 33'46 15°:	59'52	max. Earth dist.	9681 Feb 07 12:15	24° ≈ 02′25	30.70333 AU
retrograde	9673 May 03 08:45	6° ≈ 11'08		retrograde	9681 May 24 04:01	26° ≈ 46′00	

opposition	0601 Aug 00 15:22	25°≈22'45	1691207	minimum alana	9688 Feb 27 16:12	12°) €09'03	13°06'11
	9681 Aug 08 15:23			minimum elong			30.68612 AU
min. Earth dist.	9681 Aug 09 16:41		28.75860 AU	max. Earth dist.	9688 Feb 27 06:50		30.08012 AU
direct	9681 Oct 26 19:52	23°≈56'54	20.66717.411	morning rise	9688 Mar 06 09:21	12°) €27'25	
max. Earth dist.	9682 Feb 10 11:04	26°≈38'44	30.66717 AU	retrograde	9688 Jun 10 17:41	14°) (47'31	
				opposition	9688 Aug 26 16:26	13°) €24'39	
conjunction	9682 Feb 11 13:32	26° ≈ 41′23	15°02'30	min. Earth dist.	9688 Aug 26 23:02		28.76141 AU
minimum elong	9682 Feb 11 13:48	26° ≈ 41′25	15°02'44	direct	9688 Nov 14 04:19	11° ∺ 59'27	
retrograde	9682 May 26 23:52	29° ≈ 22'07		evening set	9689 Feb 21 00:07	14°) €21'03	
opposition	9682 Aug 11 12:31	27° ≈ 58'50	15°56'50				
min. Earth dist.	9682 Aug 12 12:07	27° ≈ 57'09	28.72538 AU	conjunction	9689 Mar 01 10:58	14°) 41′05	12°41'12
direct	9682 Oct 29 16:26	26° ≈ 32'58		minimum elong	9689 Mar 01 11:22	14°) 41'08	12°41'19
evening set	9683 Feb 11 19:05	29° ≈ 10'58		max. Earth dist.	9689 Mar 01 05:50	14°) 40′35	30.73195 AU
max. Earth dist.	9683 Feb 13 11:45	29°≈15'03	30.64154 AU	morning rise	9689 Mar 09 21:50	15° ₩ 01'09	
				retrograde	9689 Jun 13 10:47	17°) 19′00	
conjunction	9683 Feb 14 10:45	29° ≈ 17'21	14°47'14	opposition	9689 Aug 29 12:20	15° ¥ 56'19	13°20'01
minimum elong	9683 Feb 14 11:03	29° ≈ 17'23	14°47'26	min. Earth dist.	9689 Aug 29 17:08		28.80967 AU
morning rise	9683 Feb 17 02:58	29°≈23'48	11 1/20	direct	9689 Nov 17 00:50	14°) (31'23	20.00707 110
morning risc	9683 Mar 04 08:57	0° ₩		evening set	9690 Feb 23 02:28	16° H 50'43	
		0 X 1° ¥ 57'55		evening set	9090 Feb 23 02.28	10 / 30 43	
retrograde	9683 May 29 19:00		1.502.014.2	. ,.	0.000 14 04 05 20	1701/12/17	12015101
opposition	9683 Aug 14 09:28	0°) 34′39		conjunction	9690 Mar 04 05:28	17° ₩ 12'17	12°15'01
min. Earth dist.	9683 Aug 15 06:30	0°) 33′09	28.70241 AU	minimum elong	9690 Mar 04 05:53	17° ∺ 12'19	12°15'08
	9683 Sep 04 08:36	30° R ≈		max. Earth dist.	9690 Mar 04 02:49		30.78963 AU
direct	9683 Nov 01 14:44	29° ≈ 08'48		morning rise	9690 Mar 13 08:28	17°) 33′51	
	9683 Dec 27 10:16	0°) €		retrograde	9690 Jun 16 05:40	19°) √ 49'30	
evening set	9684 Feb 13 06:25	1° ∺ 43'14		opposition	9690 Sep 01 07:42	18° ∺ 27'04	12°51'17
max. Earth dist.	9684 Feb 16 10:20	1° ¥ 50′50	30.62668 AU	min. Earth dist.	9690 Sep 01 08:50	18°) €26'59	28.86924 AU
				direct	9690 Nov 19 22:27	17° ∺ 02'24	
conjunction	9684 Feb 17 07:38	1° ¥ 52'58	14°30'16	evening set	9691 Feb 25 05:25	19° ∺ 19'33	
minimum elong	9684 Feb 17 07:57	1° ¥ 53′00	14°30'29	S			
morning rise	9684 Feb 21 09:21	2°) €02'45		conjunction	9691 Mar 06 23:41	19°) 42′30	11°47'35
retrograde	9684 May 31 14:25	4°) (33'17		minimum elong	9691 Mar 07 00:05	19°) (42'33	11°47'40
opposition	•	3° ¥ 10′01	15°20'43	max. Earth dist.	9691 Mar 06 23:59		30.85818 AU
**	9684 Aug 16 06:29						30.63616 AU
min. Earth dist.	9684 Aug 17 01:00		28.69042 AU	morning rise	9691 Mar 16 17:47	20° ₩ 05'27	
direct	9684 Nov 03 11:53	1°) 44′13		retrograde	9691 Jun 18 23:18	22°) 18′58	
evening set	9685 Feb 14 00:45	4°) 15′42		opposition	9691 Sep 04 02:46	20°) 56'46	12°21'16
max. Earth dist.	9685 Feb 18 11:00	4° ∺ 26'19	30.62319 AU	min. Earth dist.	9691 Sep 04 02:12		28.93950 AU
				direct	9691 Nov 22 18:14	19°) 32′25	
conjunction	9685 Feb 19 04:12	4° ∺ 28′02	14°11'37	evening set	9692 Feb 27 09:02	21°) 47'24	
minimum elong	9685 Feb 19 04:33	4°) 28′04	14°11'48				
morning rise	9685 Feb 24 08:02	4°) 40′25		conjunction	9692 Mar 08 17:23	22° ℋ 11'37	11°19'01
retrograde	9685 Jun 03 08:12	7° ₩ 08'01		minimum elong	9692 Mar 08 17:48	22° ℋ 11'40	11°19'06
opposition	9685 Aug 19 03:24	5° ¥ 44'47	14°59'57	max. Earth dist.	9692 Mar 08 20:22	22° ₩ 11'55	30.93723 AU
min. Earth dist.	9685 Aug 19 19:28		28.68977 AU	morning rise	9692 Mar 19 01:28	22°) 35'49	
direct	9685 Nov 06 10:54	4° ¥ 19′04	20.00777110	retrograde	9692 Jun 20 15:35	24°) (47'16	
evening set	9686 Feb 15 22:17	6°) €47'53		opposition	9692 Sep 05 21:26	23° H 25'19	11°50'05
•	9686 Feb 21 09:07		30.63166 AU	min. Earth dist.	1		29.01979 AU
max. Earth dist.	9000 FCU 21 09.07	/ /(0033	30.03100 AU		9692 Sep 05 17:44 9692 Nov 24 15:28	23 X 2333 22° H 01'16	29.01979 AU
	0(0(E1 22 00 22	701/02/27	12051120	direct			
conjunction	9686 Feb 22 00:22	7° ₩ 02'27		evening set	9693 Feb 28 12:46	24° 升 14′08	
minimum elong	9686 Feb 22 00:44	7° ∺ 02′29	13°51'31				
morning rise	9686 Feb 28 02:51	7° ∺ 17'03		conjunction	9693 Mar 11 10:21	24°) (39'31	10°49'26
retrograde	9686 Jun 06 04:03	9°) 42′00		minimum elong	9693 Mar 11 10:45	24°) 39'33	10°49'29
opposition	9686 Aug 21 23:54	8° ₩ 18'50	14°37'25	max. Earth dist.	9693 Mar 11 15:30		31.02597 AU
min. Earth dist.	9686 Aug 22 12:29	8° 升 17'57	28.70131 AU	morning rise	9693 Mar 22 07:40	25°) €04'52	
direct	9686 Nov 09 08:14	6° ¥ 53'14		retrograde	9693 Jun 23 06:48	27° ₩ 14'16	
evening set	9687 Feb 17 21:45	9° ₩ 19'33		opposition	9693 Sep 08 15:42	25°) 52'35	11°17'50
				min. Earth dist.	9693 Sep 08 09:58	25° ℋ 52'58	29.10979 AU
conjunction	9687 Feb 24 20:23	9° ¥ 36′07	13°29'27	direct	9693 Nov 27 09:53	24°) €28'50	
minimum elong	9687 Feb 24 20:46	9°) 36′09	13°29'35	evening set	9694 Mar 02 16:59	26°) (39'37	
max. Earth dist.	9687 Feb 24 09:13		30.65258 AU	- · - · · · · · · · · · · · · · · · · ·	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
morning rise	9687 Mar 03 19:13	9° ∺ 52'43	50.05250 AU	conjunction	9694 Mar 14 02:57	27° ₩ 06'02	10°18'53
•		12° H 15'11		·		27° H 06'04	
retrograde	9687 Jun 08 21:44		1.4012111	minimum elong	9694 Mar 14 03:21		10°18'57
opposition	9687 Aug 24 20:23	10°) 52'09		max. Earth dist.	9694 Mar 14 11:12		31.12418 AU
min. Earth dist.	9687 Aug 25 06:50		28.72514 AU	morning rise	9694 Mar 25 12:21	27°) € 32'25	
direct	9687 Nov 12 05:46	9° ∺ 26'43		retrograde	9694 Jun 25 21:04	29°) 39′50	
evening set	9688 Feb 19 22:30	11° ∺ 50'38		opposition	9694 Sep 11 09:13	28° ∺ 18'24	10°44'38
				min. Earth dist.	9694 Sep 11 01:08	28°) 18′57	29.20891 AU
conjunction	9688 Feb 27 15:48	12° ∺ 09'01	13°06'03	direct	9694 Nov 30 05:24	26°) 54′57	

evening set	9695 Mar 04 21:29	29° ∺ 03'42		max. Earth dist.	9701 Apr 01 03:39	13° Y 27'00 32.06627 AU 13° Y 55'37
agniumation	9695 Mar 16 18:48	29° ¥ 31'03	9°47'31	morning rise retrograde	9701 Apr 14 02:45 9701 Jul 12 08:43	15° Y 50'46
conjunction minimum elong	9695 Mar 16 19:11	29° X 31'05	9°47'32	opposition	9701 Jul 12 08:43 9701 Sep 28 18:52	13 γ 30 40 14° γ 31'12 6°33'54
max. Earth dist.	9695 Mar 17 04:32		31.23131 AU	min. Earth dist.	9701 Sep 28 18:52 9701 Sep 27 16:54	14° Υ 32'55 30.16206 AU
morning rise	9695 Mar 28 15:43	29° H 58'22	31.23131 AU	direct	9701 Sep 27 10:34 9701 Dec 18 02:13	13° Υ 10'07
morning rise	9695 Mar 29 08:56	0° Υ		evening set	9702 Mar 19 05:44	15° Υ 06'07
retrograde	9695 Jun 28 11:29	2° Υ 03'51		evening set	7702 Will 17 03.44	13 1 00 07
opposition	9695 Sep 14 02:16	0° Υ 42'40	10°10'35	conjunction	9702 Apr 02 13:07	15° Υ '37'28 5°51'51
min. Earth dist.	9695 Sep 13 15:32	0° Υ 43'23	29.31710 AU	minimum elong	9702 Apr 02 13:23	15° Υ '37'30 5°51'48
	9695 Oct 11 12:50	30°R) €	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	max. Earth dist.	9702 Apr 03 16:44	15° Υ 40'01 32.23766 AU
direct	9695 Dec 02 22:44	29° ∺ 19'31		morning rise	9702 Apr 16 19:35	16° Ƴ 08'45
	9696 Jan 22 07:50	0 ° $\mathbf{\Upsilon}$		retrograde	9702 Jul 14 18:42	18° Y 02'26
evening set	9696 Mar 06 01:56	1° Y 26'15		min. Earth dist.	9702 Sep 30 03:30	16° Ƴ 45'02 30.33530 AU
-				opposition	9702 Oct 01 07:11	16° Y 43'14 5°56'37
conjunction	9696 Mar 18 10:01	1° Y 54'27	9°15'23	direct	9702 Dec 20 15:39	15° Y 22'33
minimum elong	9696 Mar 18 10:24	1° Ƴ 54'29	9°15'25	evening set	9703 Mar 21 10:24	17° Ƴ 17′01
max. Earth dist.	9696 Mar 18 23:11	1° Ƴ 55'42	31.34733 AU			
morning rise	9696 Mar 30 17:18	2° Y 22'36		conjunction	9703 Apr 04 23:15	17° Y 48'38 5°16'57
retrograde	9696 Jun 29 22:34	4° Ƴ 26'11		minimum elong	9703 Apr 04 23:28	17° Y 48'39 5°16'52
opposition	9696 Sep 15 18:46	3° Y 05′14	9°35'47	max. Earth dist.	9703 Apr 06 05:16	17° Y 51′23 32.41703 AU
min. Earth dist.	9696 Sep 15 06:14	3° Y 06′05	29.43415 AU	morning rise	9703 Apr 19 10:56	18° Y 20′10
direct	9696 Dec 04 17:39	1° Ƴ 42'23		retrograde	9703 Jul 17 03:19	20° Y 12′27
evening set	9697 Mar 08 06:38	3° Ƴ 47'09		opposition	9703 Oct 03 18:57	18° Y 53'37 5°19'15
				min. Earth dist.	9703 Oct 02 13:08	18° Υ 55'33 30.51608 AU
conjunction	9697 Mar 21 00:21	4° Y 16′06	8°42'37	direct	9703 Dec 23 06:31	17° Ƴ 33′22
minimum elong	9697 Mar 21 00:42	4° Υ 16'08	8°42'36	evening set	9704 Mar 22 15:05	19° Ƴ 26′22
max. Earth dist.	9697 Mar 21 14:52		31.47228 AU			
morning rise	9697 Apr 02 17:31	4° Υ 44'59		conjunction	9704 Apr 06 08:29	19° Υ ′58'10 4°42'00
retrograde	9697 Jul 02 11:58	6° Y 46'45	0000100	minimum elong	9704 Apr 06 08:41	19° Y 58'11 4°41'54
opposition	9697 Sep 18 10:27	5° Υ 26'02	9°00'20	max. Earth dist.	9704 Apr 07 15:54	20° Y 01'01 32.60326 AU
min. Earth dist.	9697 Sep 17 18:37	5°γ2/'06 4°Υ03'29	29.56052 AU	morning rise	9704 Apr 21 00:58	20° Υ 29'53 22° Υ 20'51
direct	9697 Dec 07 10:02	6° Υ 06'21		retrograde	9704 Jul 18 11:38	21° Υ 04'27 30.70380 AU
evening set	9698 Mar 10 11:05	6 1 06 21		min. Earth dist. opposition	9704 Oct 03 22:00 9704 Oct 05 06:07	21° Y 04'27 30.70380 AU 21° Y 02'22 4°41'54
conjunction	9698 Mar 23 14:00	6° Ƴ 35'56	8°09'16	direct	9704 Oct 03 06.07 9704 Dec 24 17:55	19° Y 42'33
minimum elong	9698 Mar 23 14:21	6° Υ 35'58	8°09'15	evening set	9704 Dec 24 17:33 9705 Mar 24 19:39	21° Υ 34'08
max. Earth dist.	9698 Mar 24 08:09	6° Υ 37'39		evening set	7703 Widi 24 17.37	21 1 34 00
morning rise	9698 Apr 05 16:00	7° Υ 05'28	31.000 4 3 AC	conjunction	9705 Apr 08 17:15	22° Y ′06′04 4°07′04
retrograde	9698 Jul 04 22:37	9° Υ 05'28		minimum elong	9705 Apr 08 17:25	22°Υ'06'05 4°06'56
min. Earth dist.	9698 Sep 20 08:17		29.69636 AU	max. Earth dist.	9705 Apr 10 03:23	22° Υ 09'08 32.79579 AU
opposition	9698 Sep 21 01:38	7° Ƴ 45'00	8°24'20	morning rise	9705 Apr 23 13:37	22° Ƴ 37'54
direct	9698 Dec 10 02:00	6° Ƴ 22'46		retrograde	9705 Jul 20 16:56	24° Ƴ 27'36
evening set	9699 Mar 12 15:50	8° Y 23'48		min. Earth dist.	9705 Oct 06 07:18	23° Υ 11'37 30.89750 AU
				opposition	9705 Oct 07 16:33	23° Y 09'29 4°04'38
conjunction	9699 Mar 26 02:51	8° Ƴ 53'57	7°35'25	direct	9705 Dec 27 06:15	21° Y 50'05
minimum elong	9699 Mar 26 03:09	8° Y 53'59	7°35'23	evening set	9706 Mar 27 00:17	23° Ƴ 40'19
max. Earth dist.	9699 Mar 26 22:40	8° Ƴ 55'49	31.75015 AU			
morning rise	9699 Apr 08 13:06	9° Y 24'02				
retrograde	9099 Apr 08 13.00	9 1 24 02		conjunction	9706 Apr 11 01:11	24° Υ 12'19 3°32'13
opposition	9699 Jul 07 11:11	11° Y 22'20		minimum elong	9706 Apr 11 01:20	24° Y 12'20 3°32'06
**	9699 Jul 07 11:11 9699 Sep 23 15:55	11° Υ 22'20 10° Υ 02'08	7°47'52	minimum elong max. Earth dist.	9706 Apr 11 01:20 9706 Apr 12 11:51	24° Y 12'20 3°32'06 24° Y 15'25 32.99375 AU
min. Earth dist.	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54	11° Y 22'20 10° Y 02'08 10° Y 03'33	7°47'52 29.84199 AU	minimum elong max. Earth dist. morning rise	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13
min. Earth dist.	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27	11°\cappa22'20 10°\cappa2'08 10°\cappa3'33 8°\cappa40'15		minimum elong max. Earth dist. morning rise retrograde	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43
min. Earth dist.	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54	11° Y 22'20 10° Y 02'08 10° Y 03'33		minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU
min. Earth dist. direct evening set	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32	29.84199 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32
min. Earth dist. direct evening set conjunction	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32	29.84199 AU 7°01'11	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56
min. Earth dist. direct evening set conjunction minimum elong	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12	29.84199 AU 7°01'11 7°01'09	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20	29.84199 AU 7°01'11	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Mar 29 04:45	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44	29.84199 AU 7°01'11 7°01'09	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Mar 29 04:45	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25	29.84199 AU 7°01'11 7°01'09 31.90346 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Mar 29 04:45 9707 Apr 13 08:35 9707 Apr 13 08:42	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06 9700 Sep 25 07:06	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25 12°Y19'02	29.84199 AU 7°01'11 7°01'09 31.90346 AU 29.99742 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Apr 29 04:45 9707 Apr 13 08:35 9707 Apr 13 08:42 9707 Apr 14 21:44	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23 26°Y20'11 33.19650 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06 9700 Sep 25 07:06 9700 Sep 26 05:50	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25 12°Y19'02 12°Y17'32	29.84199 AU 7°01'11 7°01'09 31.90346 AU 29.99742 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Apr 13 08:35 9707 Apr 13 08:42 9707 Apr 14 21:44 9707 Apr 28 11:12	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23 26°Y20'11 33.19650 AU 26°Y48'48
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06 9700 Sep 25 07:06 9700 Sep 26 05:50 9700 Dec 15 10:30	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25 12°Y19'02 12°Y17'32 10°Y56'02	29.84199 AU 7°01'11 7°01'09 31.90346 AU 29.99742 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Apr 13 08:35 9707 Apr 13 08:42 9707 Apr 14 21:44 9707 Apr 28 11:12 9707 Jul 25 05:19	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23 26°Y20'11 33.19650 AU 26°Y48'48 28°Y36'09
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06 9700 Sep 25 07:06 9700 Sep 26 05:50	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25 12°Y19'02 12°Y17'32	29.84199 AU 7°01'11 7°01'09 31.90346 AU 29.99742 AU	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.	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Apr 13 08:35 9707 Apr 13 08:42 9707 Apr 14 21:44 9707 Apr 28 11:12 9707 Jul 25 05:19 9707 Oct 10 23:10	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23 26°Y20'11 33.19650 AU 26°Y48'48 28°Y36'09 27°Y21'00 31.30043 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06 9700 Sep 25 07:06 9700 Sep 26 05:50 9700 Dec 15 10:30 9701 Mar 17 01:03	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25 12°Y19'02 12°Y17'32 10°Y56'02 12°Y53'38	29.84199 AU 7°01'11 7°01'09 31.90346 AU 29.99742 AU 7°11'01	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. opposition	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Apr 13 08:35 9707 Apr 13 08:42 9707 Apr 14 21:44 9707 Apr 28 11:12 9707 Oct 10 23:10 9707 Oct 12 11:25	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23 26°Y20'11 33.19650 AU 26°Y48'48 28°Y36'09 27°Y21'00 31.30043 AU 27°Y18'42 2°50'39
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9699 Jul 07 11:11 9699 Sep 23 15:55 9699 Sep 22 18:54 9699 Dec 12 19:27 9700 Mar 14 20:28 9700 Mar 28 15:05 9700 Mar 28 15:23 9700 Mar 29 14:14 9700 Apr 11 08:42 9700 Jul 09 22:06 9700 Sep 25 07:06 9700 Sep 26 05:50 9700 Dec 15 10:30	11°Y22'20 10°Y02'08 10°Y03'33 8°Y40'15 10°Y39'32 11°Y10'10 11°Y10'12 11°Y12'20 11°Y40'44 13°Y37'25 12°Y19'02 12°Y17'32 10°Y56'02	29.84199 AU 7°01'11 7°01'09 31.90346 AU 29.99742 AU	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.	9706 Apr 11 01:20 9706 Apr 12 11:51 9706 Apr 26 01:09 9706 Jul 23 00:29 9706 Oct 08 14:30 9706 Oct 10 02:16 9706 Dec 29 15:46 9707 Apr 13 08:35 9707 Apr 13 08:42 9707 Apr 14 21:44 9707 Apr 28 11:12 9707 Jul 25 05:19 9707 Oct 10 23:10	24°Y12'20 3°32'06 24°Y15'25 32.99375 AU 24°Y44'13 26°Y32'43 25°Y17'13 31.09659 AU 25°Y14'56 3°27'32 23°Y55'56 25°Y44'54 26°Y16'53 2°57'32 26°Y16'54 2°57'23 26°Y20'11 33.19650 AU 26°Y48'48 28°Y36'09 27°Y21'00 31.30043 AU

. ,.	0700 4 14 15 10	2000010145	2022104		0714 4 26 15 27	100 00000 005055
conjunction	9708 Apr 14 15:10	28°Υ19'45		minimum elong	9714 Apr 26 15:37	10° 8 00'39 0°56'55
minimum elong	9708 Apr 14 15:17	28°Υ19'46	2°22'55	max. Earth dist.	9714 Apr 28 15:58	10° 8 04'43 34.74537 AU
max. Earth dist.	9708 Apr 16 04:53		33.40373 AU	morning rise	9714 May 11 23:09	10° 8 31'19
morning rise	9708 Apr 29 20:09	28° Y 51'37		retrograde	9714 Aug 07 03:50	12° 8 12'05
	9708 Jun 06 16:10	0° 8		min. Earth dist.	9714 Oct 24 07:47	10° 8 59'48 32.86363 AU
retrograde	9708 Jul 26 12:07	0° 8 37'51		opposition	9714 Oct 26 07:39	10° 8 56'53 -1°17'00
	9708 Sep 16 16:34	30°RƳ		direct	9715 Jan 15 10:22	9° 8 40'56
min. Earth dist.	9708 Oct 12 04:57		31.50885 AU	evening set	9715 Apr 13 10:13	11° 8 21'33
opposition	9708 Oct 13 19:49	29° Y 20'44	2°14'03			
direct	9709 Jan 02 12:01	28° Y ′02'30		conjunction	9715 Apr 28 17:22	11° 8 51'56 -1°28'28
evening set	9709 Apr 01 13:15	29° Y 49′01		minimum elong	9715 Apr 28 17:19	11° 8 51'55 1°28'42
	9709 Apr 06 21:16	9° 8		max. Earth dist.	9715 Apr 30 17:59	11° 8 55'59 34.98533 AU
				morning rise	9715 May 13 23:47	12° 8 22'15
conjunction	9709 Apr 16 20:59	0° 8 20'52	1°48'52	retrograde	9715 Aug 09 05:33	14° 8 02'18
minimum elong	9709 Apr 16 21:03	0° 8 20'52	1°48'42	min. Earth dist.	9715 Oct 26 09:05	12° 8 50'30 33.10579 AU
max. Earth dist.	9709 Apr 18 12:54	_	33.61522 AU	opposition	9715 Oct 28 11:18	12° 8 47'27 -1°50'22
morning rise	9709 May 02 03:38	0° 8 52'37		direct	9716 Jan 17 13:29	11° 8 31'55
retrograde	9709 Jul 28 17:51	2° 8 37'49		evening set	9716 Apr 14 13:07	13° 8 11'44
min. Earth dist.	9709 Oct 14 11:57	1° 8 23'29	31.72190 AU			
opposition	9709 Oct 16 03:36	1° 8 20'59	1°37'47	conjunction	9716 Apr 29 18:40	13° 8 41'46 -1°59'41
direct	9710 Jan 04 20:30	0° 8 03'07		minimum elong	9716 Apr 29 18:36	13° 8 41'45 1°59'55
evening set	9710 Apr 03 17:13	1° 8 48'31		max. Earth dist.	9716 May 01 21:21	13° 8 45'58 35.22856 AU
				morning rise	9716 May 14 23:24	14° 8 11'44
conjunction	9710 Apr 19 02:07	2° 8 20'12	1°14'58		9716 Jun 10 23:55	15° 8
minimum elong	9710 Apr 19 02:10	2° 8 20'12	1°14'48	retrograde	9716 Aug 10 06:16	15° 8 51'08
max. Earth dist.	9710 Apr 20 19:19	2° 8 23'46	33.83129 AU		9716 Oct 13 04:33	15° ₹ 8
morning rise	9710 May 04 09:56	2° 8 51'49		min. Earth dist.	9716 Oct 27 12:07	14° 8 39'40 33.35112 AU
retrograde	9710 Jul 30 21:27	4° 8 36'00		opposition	9716 Oct 29 14:36	14° 8 36'38 -2°23'08
min. Earth dist.	9710 Oct 16 16:36	3° 8 22'05	31.93975 AU	direct	9717 Jan 18 15:53	13° 8 21'30
opposition	9710 Oct 18 10:22	3° 8 19'29	1°01'54	evening set	9717 Apr 16 15:47	15° 8 00'34
direct	9711 Jan 07 06:08	2° 8 01'58		<i>3</i> ***	9717 Apr 16 08:44	15° 8
evening set	9711 Apr 05 21:04	3° 8 46'17			1	_
S	1	_		conjunction	9717 May 01 19:18	15° 8 30'12 -2°30'21
conjunction	9711 Apr 21 06:29	4° 8 17'47	0°41'26	minimum elong	9717 May 01 19:12	15° 8 30'11 2°30'37
minimum elong	9711 Apr 21 06:31	4° 8 17'47		max. Earth dist.	9717 May 03 22:34	15° 8 34'25 35.47442 AU
max. Earth dist.	9711 Apr 23 01:10		34.05210 AU	morning rise	9717 May 16 22:03	15° 8 59'47
morning rise	9711 May 06 15:02	4° 8 49'13	J 00 2 10 110	retrograde	9717 Aug 12 07:17	17° 8 38'33
retrograde	9711 Aug 02 01:07	6° 8 32'27		min. Earth dist.	9717 Oct 29 12:58	16° 8 27'31 33.59869 AU
min. Earth dist.	9711 Oct 18 21:20	_	32.16298 AU	opposition	9717 Oct 31 17:07	16° 8 24'24 -2°55'18
opposition	9711 Oct 20 16:45	5° 8 16'14		direct	9718 Jan 20 20:28	15° 8 09'38
direct	9712 Jan 09 14:07	3° 8 59'06	0 20 20	evening set	9718 Apr 18 18:30	16° 8 48'01
evening set	9712 Apr 07 00:30	5° 8 42'24		evening sec	7/10/1pr 10 10:50	10 0 10 01
evening set	7/12/1pi 0/ 00:50	3 0 12 21		conjunction	9718 May 03 19:29	17° 8 17'14 -3°00'28
conjunction	9712 Apr 22 10:10	6° 8 13'40	0°08'19	minimum elong	9718 May 03 19:22	17° 8 17'14 3°00'43
minimum elong	9712 Apr 22 10:10	6° 8 13'40	0°08'08	max. Earth dist.	9718 May 05 13:38	17° 8 21'30 35.72192 AU
behind sun begin	9712 Apr 22 04:28	6° 8 13'12	0 00 00	morning rise	9718 May 18 19:54	17° 8 46'25
behind sun end	9712 Apr 22 15:52	6° 8 14'08		retrograde	9718 Aug 14 08:44	19° 8 24'36
max. Earth dist.	9712 Apr 24 07:08		34.27821 AU	min. Earth dist.	9718 Oct 31 14:20	18° 8 13'54 33.84792 AU
morning rise	9712 May 07 18:43	6° 8 44'52	34.27021 AU	opposition	9718 Nov 02 19:05	18° 8 10'46 -3°26'48
desc. node	9712 Jul 23 18:00	8° 8 25'36		direct	9719 Jan 22 22:45	16° 8 56'23
retrograde	9712 Aug 03 02:20	8° 8 25'13		evening set	9719 Apr 20 20:56	18° 8 34'06
min. Earth dist.	9712 Aug 03 02:20 9712 Oct 20 01:31		32.39151 AU	evening set	9719 Apr 20 20.30	18 03400
opposition	9712 Oct 20 01:31 9712 Oct 21 22:25	7° 8 11'19		conjunction	9719 May 05 19:15	19° 8 02'53 -3°30'00
			-0 06 34		•	
direct	9713 Jan 10 23:20	5° 8 54'35 7° 8 36'55		minimum elong	9719 May 05 19:08	19° 8 02'53 3°30'16 19° 8 07'12 35.97068 AU
evening set	9713 Apr 09 03:59	/ 03033		max. Earth dist.	9719 May 08 00:28	19° 8 31'38
agnismation	0712 Apr. 24 12:00	00 \ 07156	0024120	morning rise	9719 May 20 16:46	
conjunction	9713 Apr 24 13:09	8° 8 07'56		retrograde	9719 Aug 16 06:24	21° 8 09'15
minimum elong	9713 Apr 24 13:08	8° 8 07'56		min. Earth dist.	9719 Nov 02 15:20	19°858'53 34.09806 AU
max. Earth dist.	9713 Apr 26 10:56		34.50940 AU	opposition	9719 Nov 04 20:35	19° 8 55'43 -3°57'41
morning rise	9713 May 09 21:33	8° 8 38'52		direct	9720 Jan 25 02:57	18° 8 41'42
retrograde	9713 Aug 05 04:55	10° 8 20'24	22 (2522 : ***	evening set	9720 Apr 21 23:11	20° 8 18'47
min. Earth dist.	9713 Oct 22 03:56		32.62533 AU		0720 14 06 10 12	200047107 2050155
opposition	9713 Oct 24 03:16	9° 8 04'51	-0~45°03	conjunction	9720 May 06 18:12	20° 8 47'07 -3°58'56
direct	9714 Jan 13 04:28	7° 8 48'30		minimum elong	9720 May 06 18:03	20° 8 47'06 3°59'11
evening set	9714 Apr 11 07:07	9° 8 29'57		max. Earth dist.	9720 May 08 23:17	20° 8 51'23 36.22001 AU
. ,.	0714 4 26 17 36	100 400110	0056142	morning rise	9720 May 21 12:47	21° 8 15'25
conjunction	9714 Apr 26 15:39	10° 8 00'40	-0~56.43	retrograde	9720 Aug 17 04:23	22° 8 52'30

min. Earth dist.	9720 Nov 03 14:52	210842220	34.34897 AU	conjunction	9727 May 18 20:28	2° Ⅱ 18'21	7003158
opposition	9720 Nov 05 14:32 9720 Nov 05 21:32	21° 8 39'16		minimum elong	9727 May 18 20:28 9727 May 18 20:15	2° I 18'20	
direct	9721 Jan 26 05:01	20° 8 25'35	- 	max. Earth dist.	9727 May 18 20:15 9727 May 21 07:16		37.99557 AU
evening set	9721 Apr 24 01:09	22° 8 02'03		morning rise	9727 Jun 01 08:59	2° I I43'03	31.99331110
e venning see	372111p1 21 01:03	22 002 03		retrograde	9727 Aug 29 01:01	4° Ⅱ 17'26	
conjunction	9721 May 08 16:52	22° 8 29'55	-4°27'16	min. Earth dist.	9727 Nov 15 23:24		36.14025 AU
minimum elong	9721 May 08 16:43	22° 8 29'54		opposition	9727 Nov 18 12:10	3° П 06'15	
max. Earth dist.	9721 May 10 23:40	_	36.46991 AU	direct	9728 Feb 08 02:05	1° ∏ 54'56	,
morning rise	9721 May 23 07:54	22° 8 57'44		evening set	9728 May 06 08:03	3° Ⅱ 28'18	
retrograde	9721 Aug 18 23:42	24° 8 34'19			, , _ u		
min. Earth dist.	9721 Nov 05 15:20	_	34.60046 AU	conjunction	9728 May 19 15:25	3° ∏ 52'27	-7°27'49
opposition	9721 Nov 07 21:45	23° 8 21'21	-4°57'26	minimum elong	9728 May 19 15:13	3° Ⅱ 52'26	
direct	9722 Jan 28 07:54	22° 8 08'00		max. Earth dist.	9728 May 22 03:59	3° Ⅱ 57'03	38.25429 AU
evening set	9722 Apr 26 02:55	23° 8 43'53		morning rise	9728 Jun 01 22:28	4° Ⅱ 16'35	
<i>8</i>	r			retrograde	9728 Aug 29 18:10	5° Ⅱ 50'45	
conjunction	9722 May 10 14:45	24° 8 11'15	-4°54'59	min. Earth dist.	9728 Nov 16 20:41	4° Ⅱ 43'18	36.40091 AU
minimum elong	9722 May 10 14:35	24° 8 11'14		opposition	9728 Nov 19 09:00	4° Ⅱ 39'53	
max. Earth dist.	9722 May 12 21:14		36.72048 AU	direct	9729 Feb 09 00:34	3° Ⅱ 28'56	
morning rise	9722 May 25 02:11	24° 8 38'35		evening set	9729 May 08 08:21	5° Ⅱ 02'00	
retrograde	9722 Aug 20 21:09	26° 8 14'42		8			
min. Earth dist.	9722 Nov 07 13:05		34.85296 AU	conjunction	9729 May 21 10:01	5° Ⅱ 25'34	-7°51'01
opposition	9722 Nov 09 21:23	25° 8 02'01		minimum elong	9729 May 21 09:48	5° Ⅱ 25'33	
direct	9723 Jan 30 07:56	23° 8 48'57		max. Earth dist.	9729 May 23 22:05		38.51298 AU
evening set	9723 Apr 28 04:17	25° 8 24'19		morning rise	9729 Jun 03 11:33	5° Ⅱ 49'08	
<i>8</i>	r			retrograde	9729 Aug 31 13:01	7° Ⅱ 23'06	
conjunction	9723 May 12 12:04	25° 8 51'10	-5°22'04	min. Earth dist.	9729 Nov 18 15:25		36.66123 AU
minimum elong	9723 May 12 11:54	25° 8 51'09		opposition	9729 Nov 21 05:06	6° Ⅱ 12'34	
max. Earth dist.	9723 May 14 20:17	_	36.97210 AU	direct	9730 Feb 10 20:35	5° Ⅱ 01'57	
morning rise	9723 May 26 19:24	26° 8 18'00		evening set	9730 May 10 08:25	6° Ⅱ 34'45	
retrograde	9723 Aug 22 17:51	27° 8 53'42		Č	,		
min. Earth dist.	9723 Nov 09 12:23	_	35.10699 AU	conjunction	9730 May 23 04:17	6° Ⅱ 57'45	-8°13'35
opposition	9723 Nov 11 20:41	26° 8 41'17		minimum elong	9730 May 23 04:05	6° Ⅱ 57'44	
direct	9724 Feb 01 07:22	25° 8 28'33		max. Earth dist.	9730 May 25 17:14		38.77084 AU
evening set	9724 Apr 29 05:31	27° 8 03'25		morning rise	9730 Jun 05 00:03	7° Ⅱ 20'45	
	,,p,			retrograde	9730 Sep 02 08:33	8° ∏ 54'32	
conjunction	9724 May 13 08:55	27° 8 29'45	-5°48'31	min. Earth dist.	9730 Nov 20 12:00		36.92053 AU
minimum elong	9724 May 13 08:45	27° 8 29'44	5°48'49	opposition	9730 Nov 23 01:06	7° Ⅱ 44'17	
max. Earth dist.	9724 May 15 17:38	_	37.22549 AU	direct	9731 Feb 12 15:20	6° Ⅱ 34'01	
morning rise	9724 May 27 11:53	27° 8 56'03		evening set	9731 May 12 08:18	8° Ⅱ 06'34	
retrograde	9724 Aug 23 15:17	29° 8 31'22		8	,		
min. Earth dist.	9724 Nov 10 09:19		35.36286 AU	conjunction	9731 May 24 22:09	8° Ⅱ 28'58	-8°35'32
opposition	9724 Nov 12 19:16	28° 8 19'14		minimum elong	9731 May 24 21:55	8° Ⅱ 28'57	
direct	9725 Feb 02 06:18	27° 8 06'50		max. Earth dist.	9731 May 27 11:00		39.02735 AU
evening set	9725 May 01 06:27	28° 8 41'16		morning rise	9731 Jun 06 11:46	8° Ⅱ 51'23	
C	J	_		retrograde	9731 Sep 04 03:49	10° Ⅱ 24'59	
conjunction	9725 May 15 05:09	29° 8 07'04	-6°14'19	min. Earth dist.	9731 Nov 22 07:02		37.17806 AU
minimum elong	9725 May 15 04:58	29° 8 07'03		opposition	9731 Nov 24 20:34	9° Ⅱ 15′02	
max. Earth dist.	9725 May 17 14:49	29° 8 11'33	37.48063 AU	direct	9732 Feb 14 09:58	8° Ⅱ 05'04	
morning rise	9725 May 29 03:39	29° 8 32'51		evening set	9732 May 13 08:08	9° Ⅱ 37'23	
	9725 Jun 13 14:21	$\Pi^{\circ}0$			•		
retrograde	9725 Aug 25 12:53	1° Ⅱ 07'49		conjunction	9732 May 25 15:38	9° Ⅱ 59'12	-8°56'52
Č	9725 Nov 11 19:33	30° ₹ ႘		minimum elong	9732 May 25 15:25	9° Ⅱ 59'11	8°57'13
min. Earth dist.	9725 Nov 12 06:37	29° 8 59'22	35.62069 AU	max. Earth dist.	9732 May 28 04:10	10° Ⅲ 03'42	39.28185 AU
opposition	9725 Nov 14 17:27	29° 8 55'59	-6°48'41	morning rise	9732 Jun 06 23:11	10° Ⅲ 21′01	
direct	9726 Feb 04 03:34	28° 8 43'56		retrograde	9732 Sep 04 21:54	11° Ⅱ 54'28	
	9726 Apr 23 03:34	$\Pi^{\circ}0$		min. Earth dist.	9732 Nov 23 01:56	10° Ⅱ 48'11	37.43365 AU
evening set	9726 May 03 07:11	0° Ⅱ 17'59		opposition	9732 Nov 25 15:42	10° Ⅱ 44'46	-9°36'28
-	-			direct	9733 Feb 15 04:38	9° Ⅱ 35′06	
conjunction	9726 May 17 01:07	0° Ⅱ 43'14	-6°39'28	evening set	9733 May 15 07:35	11° Ⅲ 07'12	
minimum elong	9726 May 17 00:55	0° Ⅱ 43'14		Ü	,		
max. Earth dist.	9726 May 19 12:06		37.73753 AU	conjunction	9733 May 27 08:49	11° Ⅱ 28′24	-9°17'35
morning rise	9726 May 30 18:35	1° Ⅱ 08'29		minimum elong	9733 May 27 08:35	11° Ⅱ 28′23	9°17'56
retrograde	9726 Aug 27 06:26	2° Ⅱ 43'09		max. Earth dist.	9733 May 29 22:08		39.53427 AU
min. Earth dist.	9726 Nov 14 03:40		35.87991 AU	morning rise	9733 Jun 08 09:49	11° Ⅱ 49'37	
opposition	9726 Nov 16 14:57	1° Ⅱ 31'38		retrograde	9733 Sep 06 11:59	13° Ⅱ 22'54	
direct	9727 Feb 06 03:43	0° Ⅱ 19'57		min. Earth dist.	9733 Nov 24 21:10		37.68692 AU
evening set	9727 May 05 07:51	1° Ⅱ 53'39		opposition	9733 Nov 27 10:20	12° Ⅱ 13'27	
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Tranctary Tricin	omena or rato nor	11 7000 tillough 10102 (O 1), Astrodictist A	NG 10-1700-2023 14	23, page 11
direct	9734 Feb 17 02:49	11° Ⅱ 04'03	retrograde	9740 Sep 15 20:42	23° Ⅱ 13'42
evening set	9734 May 17 06:59	12° Ц 35'56	min. Earth dist.	9740 Dec 04 18:32	22° I 109'16 39.42884 AU
evening set	9754 Way 17 00.59	12 1133 30	opposition	9740 Dec 04 18:32 9740 Dec 07 09:11	22° II 05'54 -12° 08'44
agniumation	0724 May 20, 01:25	12° 耳 56'32 -9°37'42	direct	9740 Dec 07 09:11 9741 Feb 27 06:18	20° II 58'23
conjunction	9734 May 29 01:25	12 II 36 32 -9 37 42 12° II 56'31 9°38'03			20 H3823 22°H29'29
minimum elong	9734 May 29 01:13		evening set	9741 May 28 20:16	22 11 29 29
max. Earth dist.	9734 May 31 13:44	13° Ⅱ 00'57 39.78453 AU		0741 1 07 11 04	220T45142 11041126
morning rise	9734 Jun 09 19:56	13° Ⅱ 17'08	conjunction	9741 Jun 07 11:24	22°II45'42 -11°41'36
retrograde	9734 Sep 08 03:16	14° ∏ 50'16	minimum elong	9741 Jun 07 11:12	22° I 45'41 11°41'58
min. Earth dist.	9734 Nov 26 14:12	13° Ⅱ 44'27 37.93840 AU	max. Earth dist.	9741 Jun 10 01:28	22° I 50'04 41.50855 AU
opposition	9734 Nov 29 04:22	13° I 41′02 -10°18′25	morning rise	9741 Jun 17 02:36	23° Ⅱ 01'54
direct	9735 Feb 18 22:40	12° Ⅲ 31'53	retrograde	9741 Sep 17 10:44	24° Ⅱ 34'45
evening set	9735 May 19 05:58	14° Ⅱ 03'35	min. Earth dist.	9741 Dec 06 09:09	23° Ⅱ 30'37 39.67268 AU
			opposition	9741 Dec 09 00:42	23° Ⅱ 27'13 -12°24'56
conjunction	9735 May 30 17:43	14° Ⅱ 23'33 -9°57'13	direct	9742 Feb 28 22:16	22° Ⅱ 19'59
minimum elong	9735 May 30 17:29	14° Ⅱ 23'32 9°57'34	evening set	9742 May 30 18:08	23° Ⅲ 51′05
max. Earth dist.	9735 Jun 02 07:14	14° Ⅱ 28'02 40.03324 AU			
morning rise	9735 Jun 11 05:22	14° ∏ 43'32	conjunction	9742 Jun 09 01:20	24° Ⅲ 06'39 -11°56'59
retrograde	9735 Sep 09 17:40	16° Ⅱ 16'33	minimum elong	9742 Jun 09 01:08	24° Ⅲ 06'38 11°57'22
min. Earth dist.	9735 Nov 28 08:52	15° 耳 10′54 38.18868 AU	max. Earth dist.	9742 Jun 11 15:50	24° Ⅱ 11'01 41.74908 AU
opposition	9735 Nov 30 22:16	15° Ⅱ 07'32 -10°38'25	morning rise	9742 Jun 18 08:35	24° Ⅲ 22'13
direct	9736 Feb 20 18:15	13° Ⅱ 58'39	retrograde	9742 Sep 19 01:19	25° Ⅲ 55'07
evening set	9736 May 20 04:47	15° 耳 30′09	min. Earth dist.	9742 Dec 08 01:41	24° Ц 51'10 39.91384 AU
evening sec	3750 May 20 0 M. 17	10 2000)	opposition	9742 Dec 10 16:01	24° I 47'51 -12°40'34
conjunction	9736 May 31 09:27	15° Ⅱ 49'30 -10°16'07	direct	9743 Mar 02 13:34	23° I I40'54
minimum elong	9736 May 31 09:14	15° Д 49'29 10°16'28	evening set	9743 Jun 01 16:07	25° I 12'01
max. Earth dist.	9736 Jun 02 22:43	15° Д 53'57 40.28107 AU	evening set	7743 Juli 01 10.07	25 112 01
morning rise	9736 Jun 11 14:05	16° I 08'52	conjunction	9743 Jun 10 15:06	25° ∏ 26'56 -12°11'49
•		10 H 08 32 17° H 41'47	3		25° I 26'55 12°12'11
retrograde	9736 Sep 10 09:20		minimum elong	9743 Jun 10 14:54	
min. Earth dist.	9736 Nov 29 00:53	16° I 36'25 38.43819 AU	max. Earth dist.	9743 Jun 13 05:12	25° Ⅱ 31'15 41.98678 AU
opposition	9736 Dec 01 15:33	16° Ⅲ 33'00 -10°57'45	morning rise	9743 Jun 19 14:01	25° Ⅱ 41'52
direct	9737 Feb 21 11:54	15° Ⅲ 24'22	retrograde	9743 Sep 20 15:57	27° Ⅱ 14'50
evening set	9737 May 22 03:24	16° Ⅱ 55'43	min. Earth dist.	9743 Dec 09 16:31	26° Ⅱ 11'07 40.15168 AU
			opposition	9743 Dec 12 06:59	26° Ⅱ 07'48 -12°55'39
conjunction	9737 Jun 02 00:54	17° Ⅱ 14'27 -10°34'24	direct	9744 Mar 03 03:55	25° Ⅱ 01'07
minimum elong	9737 Jun 02 00:40	17° Ⅱ 14'26 10°34'45	evening set	9744 Jun 02 13:52	26° Ⅲ 32'15
max. Earth dist.	9737 Jun 04 14:41	17° Ⅱ 18'54 40.52822 AU			
morning rise	9737 Jun 12 22:29	17° Ⅱ 33'12	conjunction	9744 Jun 11 04:24	26° Ⅱ 46'31 -12°26'08
retrograde	9737 Sep 12 02:57	19° Ⅱ 06′03	minimum elong	9744 Jun 11 04:12	26° Ⅲ 46'31 12°26'31
min. Earth dist.	9737 Nov 30 17:53	18° 耳 00′53 38.68725 AU	max. Earth dist.	9744 Jun 13 17:39	26° 耳 50'46 42.22088 AU
opposition	9737 Dec 03 08:25	17° I 57′29 -11°16′27	morning rise	9744 Jun 19 19:04	27° Ⅲ 00'48
direct	9738 Feb 23 02:54	16° Ⅱ 49'07	retrograde	9744 Sep 21 07:41	28° Ⅲ 33'51
evening set	9738 May 24 01:53	18° Ⅲ 20′22	min. Earth dist.	9744 Dec 10 07:38	27° 耳 30′19 40.38591 AU
	•		opposition	9744 Dec 12 21:45	27° II 27'03 -13°10'11
conjunction	9738 Jun 03 16:07	18° Ⅱ 38'29 -10°52'05	direct	9745 Mar 04 16:14	26° Ⅱ 20'36
minimum elong	9738 Jun 03 15:55	18° 耳 38′28 10°52′27	evening set	9745 Jun 04 11:40	27° Ⅱ 51'47
max. Earth dist.	9738 Jun 06 06:29	18° I I42'57 40.77496 AU	<i>8</i>		
morning rise	9738 Jun 14 06:15	18° I I56'36	conjunction	9745 Jun 12 17:42	28° 耳 05′24 -12°39′57
retrograde	9738 Sep 13 17:44	20°II29'24	minimum elong	9745 Jun 12 17:42	28° I I 05'23 12°40'19
min. Earth dist.	9738 Dec 02 10:17	19° Д 24'29 38.93554 AU	max. Earth dist.	9745 Jun 15 07:14	28° I 109'38 42.45128 AU
opposition	9738 Dec 05 00:58	19° Ш 21'06 -11°34'30		9745 Jun 20 23:39	28° I 19'00
direct	9739 Feb 24 19:38	19°Щ2106 -11°34'30 18°Щ13'00	morning rise retrograde	9745 Jun 20 23:39 9745 Sep 22 19:04	29° I 52'08
			-		
evening set	9739 May 26 00:06	19° Ⅱ 44'10	min. Earth dist.	9745 Dec 11 23:00	28°II48'45 40.61618 AU
	0720 I 07 01 11	200H01120 11200	opposition	9745 Dec 14 11:58	28°II45'33 -13°24'11
conjunction	9739 Jun 05 06:43	20°II01'39 -11°09'10	direct	9746 Mar 06 08:17	27° Ⅲ 39'19
minimum elong	9739 Jun 05 06:30	20° I 101'38 11°09'32	evening set	9746 Jun 06 09:24	29° Ⅱ 10'34
max. Earth dist.	9739 Jun 07 20:34	20° I 06'03 41.02081 AU			
morning rise	9739 Jun 15 13:28	20° Ⅱ 19'08	conjunction	9746 Jun 14 06:29	29° II 23'30 -12°53'16
retrograde	9739 Sep 15 08:46	21° Ⅱ 51'56	minimum elong	9746 Jun 14 06:18	29° Ⅱ 23'29 12°53'39
min. Earth dist.	9739 Dec 04 01:43	20° Ⅱ 47'18 39.18294 AU	max. Earth dist.	9746 Jun 16 18:35	29° Ⅱ 27'37 42.67798 AU
opposition	9739 Dec 06 17:15	20° Ⅱ 43'53 -11°51'55	morning rise	9746 Jun 22 03:38	29° Ⅱ 36′26
direct	9740 Feb 26 11:46	19° Ⅱ 36′04		9746 Jul 06 22:15	0ං ම
evening set	9740 May 26 22:11	21° Ⅲ 07′12	retrograde	9746 Sep 24 05:48	1°509'40
-	-		min. Earth dist.	9746 Dec 13 12:26	0°906'29 40.84305 AU
conjunction	9740 Jun 05 21:16	21° II 24'03 -11°25'40	opposition	9746 Dec 16 01:57	0°503'16 -13°37'39
minimum elong	9740 Jun 05 21:04	21° II 24'02 11°26'03	**	9746 Dec 18 16:21	30°R∏
max. Earth dist.	9740 Jun 08 12:22	21° I 28'30 41.26554 AU	direct	9747 Mar 08 00:00	28° I 57'15
morning rise	9740 Jun 15 20:18	21° II 40'53		9747 May 21 03:27	20 1 37 13 0° ඉ
					- -

evening set	9747 Jun 08 06:46	0°\$28'34	min. Earth dist.	9753 Dec 22 07:01	8°\$50'32 42.36954 AU
* · · · · · · · · · · · · · · · · · · ·			opposition	9753 Dec 24 19:19	8°9547'27 -14°57'13
conjunction	9747 Jun 15 18:53	0°5940'49 -13°06'04	direct	9754 Mar 16 20:36	7°9542'57
minimum elong	9747 Jun 15 18:43	0°540'48 13°06'27	evening set	9754 Jun 19 15:56	9° 5 15'41
max. Earth dist.	9747 Jun 18 07:46	0°ട്ട44'58 42.90151 AU			
morning rise	9747 Jun 23 06:59	0°953'04	conjunction	9754 Jun 24 02:38	9°522'42 -14°21'45
retrograde	9747 Sep 25 16:48	2° © 26'25	minimum elong	9754 Jun 24 02:30	9° 5 22'42 14°22'07
min. Earth dist.	9747 Dec 15 03:23	1°523'21 41.06709 AU	max. Earth dist.	9754 Jun 26 14:03	9° 5 26′38 44.40916 AU
opposition	9747 Dec 17 15:46	1°520'12 -13°50'36	morning rise	9754 Jun 28 13:16	9° 5 29'44
direct	9748 Mar 08 16:11	0°514'23	retrograde	9754 Oct 04 02:12	11° 5 04'48
evening set	9748 Jun 09 04:21	1°545'47	min. Earth dist.	9754 Dec 23 20:02	10°903'00 42.57785 AU
			opposition	9754 Dec 26 07:11	9°559'59 -15°06'36
conjunction	9748 Jun 16 07:04	1°957'20 -13°18'22	direct	9755 Mar 18 07:57	8° 9 55'43
minimum elong	9748 Jun 16 06:54	1°957'20 13°18'46	evening set	9755 Jun 21 15:41	10° © 28'51
max. Earth dist.	9748 Jun 18 19:22	2°501'26 43.12270 AU			
morning rise	9748 Jun 23 09:44	2°508'54	conjunction	9755 Jun 25 13:11	10°534'59 -14°30'41
retrograde	9748 Sep 26 05:15	3°542'24	minimum elong	9755 Jun 25 13:05	10°934'58 14°31'04
min. Earth dist.	9748 Dec 15 15:53	2°539'32 41.28895 AU	max. Earth dist.	9755 Jun 28 00:27	10°538'52 44.61422 AU
opposition	9748 Dec 18 04:59	2°\$36'22 -14°03'01	morning rise	9755 Jun 29 10:36	10°5541'06
direct	9749 Mar 10 05:53	1°530'45	retrograde	9755 Oct 05 12:48	12°5016'37
evening set	9749 Jun 11 01:47	3° 5 02'17	min. Earth dist.	9755 Dec 25 08:06	11°S14'59 42.78222 AU
. ,.	0740 1 17 10 54	20512100 12020110	opposition	9755 Dec 27 18:46	11°S12'00 -15°15'31
conjunction minimum elong	9749 Jun 17 18:54	3°513'08 -13°30'10 3°513'07 13°30'33	direct	9756 Mar 18 19:26	10°907'56 11°941'34
max. Earth dist.	9749 Jun 17 18:45 9749 Jun 20 07:02	3°\$17'11 43.34189 AU	evening set	9756 Jun 22 16:46	11 2041 34
morning rise	9749 Jun 24 12:03	3°\$24'00	conjunction	9756 Jun 25 23:34	11° 5 46'42 -14°39'12
retrograde	9749 Juli 24 12:03 9749 Sep 27 19:01	4°\$57'39	minimum elong	9756 Jun 25 23:27	11°546'42 -14°39'34
min. Earth dist.	9749 Sep 27 19:01 9749 Dec 17 05:26	3°\$54'57 41.50906 AU	max. Earth dist.	9756 Jun 28 09:15	11°S50'28 44.81514 AU
opposition	9749 Dec 17 03:20	3°951'49 -14°14'53	morning rise	9756 Jun 29 06:16	11°951'51
direct	9750 Mar 11 17:21	2°546'25	retrograde	9756 Oct 06 00:50	13°\$27'54
evening set	9750 Jun 12 23:20	4°\$18'06	min. Earth dist.	9756 Dec 25 19:46	12°\$26'24 42.98236 AU
e venning see	7750 Juli 12 25.20	1 310 00	opposition	9756 Dec 28 06:03	12°\$23'27 -15°24'01
conjunction	9750 Jun 19 06:33	4°528'14 -13°41'27	direct	9757 Mar 20 04:41	11°5519'34
minimum elong	9750 Jun 19 06:23	4°528'13 13°41'50	evening set	9757 Jun 24 20:31	12°953'53
max. Earth dist.	9750 Jun 21 19:19	4°532'19 43.55947 AU	<i>3</i> - 1 - 1		
morning rise	9750 Jun 25 13:39	4°938'22	conjunction	9757 Jun 27 09:54	12°957'52 -14°47'19
retrograde	9750 Sep 29 06:43	6°512'14	minimum elong	9757 Jun 27 09:48	12°957'52 14°47'42
min. Earth dist.	9750 Dec 18 18:20	5°509'43 41.72730 AU	morning rise	9757 Jun 29 23:08	13° 5 01'51
opposition	9750 Dec 21 06:46	5°506'36 -14°26'14	max. Earth dist.	9757 Jun 29 19:54	13°501'38 45.01167 AU
direct	9751 Mar 13 05:10	4°501'26	retrograde	9757 Oct 07 09:01	14°938'35
evening set	9751 Jun 14 21:02	5° © 33'18	min. Earth dist.	9757 Dec 27 08:31	13°937'10 43.17786 AU
			opposition	9757 Dec 29 17:12	13°534'18 -15°32'06
conjunction	9751 Jun 20 17:50	5°542'43 -13°52'14	direct	9758 Mar 21 17:14	12° © 30'35
minimum elong	9751 Jun 20 17:42	5°542'42 13°52'37	evening set	9758 Jun 27 06:06	14° © 05'58
max. Earth dist.	9751 Jun 23 05:35	5°546'42 43.77529 AU			
morning rise	9751 Jun 26 14:40	5°952'06	conjunction	9758 Jun 28 19:48	14° © 08'25 -14°55'01
retrograde	9751 Sep 30 19:17	7° 9 26'12	minimum elong	9758 Jun 28 19:42	14° 5 08'24 14°55'23
min. Earth dist.	9751 Dec 20 06:11	6°523'55 41.94381 AU	morning rise	9758 Jun 30 09:21	14°9510'51
opposition	9751 Dec 22 19:17	6°520'46 -14°37'03	max. Earth dist.	9758 Jul 01 04:11	14°S12'04 45.20381 AU
direct	9752 Mar 13 16:06	5° © 15'50	retrograde	9758 Oct 08 17:34	15°9548'40
evening set	9752 Jun 15 18:47	6°\$47'56	min. Earth dist.	9758 Dec 28 18:50	14°5647'25 43.36913 AU
. ,.	0752 1 21 04 57	(0655(125 14002122	opposition	9758 Dec 31 03:58	14°544'32 -15°39'45
conjunction minimum elong	9752 Jun 21 04:57 9752 Jun 21 04:48	6°556'35 -14°02'33	direct	9759 Mar 23 04:38	13° © 40'59
Č		6°556'35 14°02'55	agnismation	0750 Jun 20 05:20	1506210110 15002120
max. Earth dist. morning rise	9752 Jun 23 17:32 9752 Jun 26 15:01	7°500'37 43.98917 AU 7°505'14	conjunction minimum elong	9759 Jun 30 05:29 9759 Jun 30 05:24	15°©18'19 -15°02'20 15°©18'19 15°02'43
retrograde	9752 Juli 20 13:01 9752 Oct 01 03:28	8°\$39'37	max. Earth dist.	9759 Jul 02 13:49	15°S21'57 45.39201 AU
min. Earth dist.	9752 Dec 20 19:47	7°\$37'27 42.15803 AU	retrograde	9759 Oct 10 03:01	16°958'08
opposition	9752 Dec 20 19.47 9752 Dec 23 07:35	7°\$34'23 -14°47'23	min. Earth dist.	9759 Dec 30 07:00	15°S56'56 43.55688 AU
direct	9752 Dec 25 07:55 9753 Mar 15 06:45	6°\$29'40	opposition	9760 Jan 01 14:40	15°S54'08 -15°47'00
evening set	9753 Jun 17 17:12	8°\$02'03	direct	9760 Mar 23 17:12	14°950'44
2. cg 500	,,00 tan 1, 1/.12	- - 0- 00		,, 00 Mai 23 17.12	-
conjunction	9753 Jun 22 15:55	8°\$09'55 -14°12'22	conjunction	9760 Jun 30 14:57	16°\$27'36 -15°09'14
minimum elong	9753 Jun 22 15:48	8°509'54 14°12'45	minimum elong	9760 Jun 30 14:53	16°\$27'36 15°09'36
max. Earth dist.	9753 Jun 25 03:30	8°9513'52 44.20068 AU	max. Earth dist.	9760 Jul 02 23:07	16°931'13 45.57712 AU
morning rise	9753 Jun 27 14:35	8°9517'46	retrograde	9760 Oct 10 13:08	18°907'00
retrograde	9753 Oct 02 13:08	9° © 52'28	min. Earth dist.	9760 Dec 30 17:09	17°905'56 43.74160 AU
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opposition	9761 Jan 02 00:56	17°503'09 -15°53'49	conjunction	9769 Jul 10 20:30	26°\$32'00 -15°53'38
direct	9761 Mar 25 03:38	15° © 59'54	minimum elong	9769 Jul 10 20:29	26°\$32'00 15°53'58
			max. Earth dist.	9769 Jul 12 23:35	26°\$35'10 47.11547 AU
conjunction	9761 Jul 02 00:09	17°536'20 -15°15'43	retrograde	9769 Oct 20 19:24	28° © 08'12
minimum elong	9761 Jul 02 00:05	17°536'20 15°16'06	min. Earth dist.	9770 Jan 10 11:37	27°508'17 45.27151 AU
max. Earth dist.	9761 Jul 04 07:19	17°539'51 45.75947 AU	opposition	9770 Jan 12 13:08	27°\$05'52 -16°36'58
retrograde	9761 Oct 12 01:00	19° © 15'18	direct	9770 Apr 04 13:47	26° © 04'13
•		18°S14'23 43.92388 AU	direct	9//0 Apr 04 13.4/	20 304 13
min. Earth dist.	9762 Jan 01 03:23			0770 1 1 10 04 22	27262700 1505650
opposition	9762 Jan 03 10:56	18°5511'37 -16°00'12	conjunction	9770 Jul 12 04:32	27°\$37'20 -15°56'50
direct	9762 Mar 26 10:40	17° 5 08'33	minimum elong	9770 Jul 12 04:32	27° © 37'20 15°57'11
			max. Earth dist.	9770 Jul 14 06:32	27°5540'26 47.26604 AU
conjunction	9762 Jul 03 09:19	18°5544'34 -15°21'48	retrograde	9770 Oct 22 02:05	29° © 13'11
minimum elong	9762 Jul 03 09:15	18° © 44'33 15°22'09	min. Earth dist.	9771 Jan 11 20:11	28°\$13'23 45.42013 AU
max. Earth dist.	9762 Jul 05 17:09	18°9548'07 45.93955 AU	opposition	9771 Jan 13 21:36	28°\$10'58 -16°39'59
retrograde	9762 Oct 13 08:36	20°523'09	direct	9771 Apr 06 00:52	27° 5 09'26
min. Earth dist.	9763 Jan 02 14:13	19°\$22'20 44.10373 AU			
opposition	9763 Jan 04 20:52	19°\$19'37 -16°06'10	conjunction	9771 Jul 13 12:05	28°\$42'11 -15°59'42
direct	9763 Mar 27 21:26	18°9516'44	minimum elong	9771 Jul 13 12:05	28°\$42'11 16°00'03
direct	7703 Mai 27 21.20	10 310 11	max. Earth dist.	9771 Jul 15 12:55	28°\$45'12 47.41190 AU
conjunction	9763 Jul 04 18:01	19° © 52'21 -15°27'28	max. Lartii dist.	9771 Sep 13 02:44	0°Ω
·					0° Ω 17'42
minimum elong	9763 Jul 04 17:57		retrograde	9771 Oct 23 12:46	
max. Earth dist.	9763 Jul 07 00:37	19°955'49 46.11736 AU		9771 Dec 03 17:53	30°Rூ
retrograde	9763 Oct 14 15:42	21° 9 30'34	min. Earth dist.	9772 Jan 13 05:44	29°517'56 45.56450 AU
min. Earth dist.	9764 Jan 03 23:19	20°529'57 44.28123 AU	opposition	9772 Jan 15 06:02	29° © 15'35 -16°42'41
opposition	9764 Jan 06 06:35	20°\$27'13 -16°11'42	direct	9772 Apr 06 08:26	28° © 14'10
direct	9764 Mar 28 07:41	19° 5 24'31			
			conjunction	9772 Jul 13 19:46	29°5046'33 -16°02'15
conjunction	9764 Jul 05 02:46	20°\$59'46 -15°32'44	minimum elong	9772 Jul 13 19:46	29° 5 46'33 16°02'37
minimum elong	9764 Jul 05 02:44	20°959'45 15°33'06	max. Earth dist.	9772 Jul 15 20:49	29°549'33 47.55391 AU
max. Earth dist.	9764 Jul 07 09:42	21°503'14 46.29264 AU		9772 Jul 22 23:30	$0^{\circ}\Omega$
retrograde	9764 Oct 15 00:05	22° © 37'38	retrograde	9772 Oct 23 20:04	1° Ω 21'43
min. Earth dist.	9765 Jan 04 10:17	21°537'08 44.45605 AU	min. Earth dist.	9773 Jan 13 14:36	0°Ω22'00 45.70513 AU
	9765 Jan 06 16:06	21°934'28 -16°16'50		9773 Jan 15 14:02	0°Ω19'42 -16°45'02
opposition			opposition		
direct	9765 Mar 29 18:44	20° © 31'58		9773 Feb 01 18:51	30°RS
			direct	9773 Apr 07 16:47	29° © 18'23
conjunction	9765 Jul 06 11:23	22° © 06'50 -15°37'37		9773 Jun 08 19:44	0 \circ Ω
minimum elong	9765 Jul 06 11:20	22° © 06'50 15°37'59			
max. Earth dist.	9765 Jul 08 17:43	22°\$10'15 46.46518 AU	conjunction	9773 Jul 15 03:07	0° Ω 50'25 -16°04'28
retrograde	9765 Oct 16 09:10	23° 5 44'22	minimum elong	9773 Jul 15 03:08	0° Ω 50'25 16°04'48
min. Earth dist.	9766 Jan 05 19:24	22°9544'03 44.62764 AU	max. Earth dist.	9773 Jul 17 02:34	0° Ω 53'19 47.69256 AU
opposition		22°5641'23 -16°21'34	retrograde	0550 0 05 00 00	0
opposition	9766 Jan 08 01:21	22 394123 -10 21 34	retrograde	9773 Oct 25 03:38	2° Ω 25'15
direct	9766 Jan 08 01:21 9766 Mar 31 04:40	21°939'05	min. Earth dist.	97/3 Oct 25 03:38 9774 Jan 14 22:23	
* *			min. Earth dist.	9774 Jan 14 22:23	1° Ω 25'38 45.84267 AU
direct	9766 Mar 31 04:40	21°\$39'05	min. Earth dist. opposition	9774 Jan 14 22:23 9774 Jan 16 21:57	1° Ω25'38 45.84267 AU 1° Ω23'20 -16°47'03
direct	9766 Mar 31 04:40 9766 Jul 07 19:41	21°539'05 23°513'36 -15°42'08	min. Earth dist.	9774 Jan 14 22:23	1° Ω 25'38 45.84267 AU
direct conjunction minimum elong	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40	21°539'05 23°513'36 -15°42'08 23°513'36 15°42'30	min. Earth dist. opposition direct	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08
direct conjunction minimum elong max. Earth dist.	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54	21°539'05 23°513'36 -15°42'08 23°513'36 15°42'30 23°516'56 46.63421 AU	min. Earth dist. opposition direct conjunction	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21
conjunction minimum elong max. Earth dist. retrograde	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47	21°S39'05 23°S13'36 -15°42'08 23°S13'36 15°42'30 23°S16'56 46.63421 AU 24°S50'48	min. Earth dist. opposition direct conjunction minimum elong	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18	1°\$\Omega_25'38 45.84267 \text{ AU} \\ 1°\$\Omega_23'20 -16°47'03 \\ 0°\$\Omega_22'08 \\ 1°\$\Omega_53'51 -16°06'21 \\ 1°\$\Omega_53'51 16°06'42 \\
conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37	21°S39'05 23°S13'36 -15°42'08 23°S13'36 15°42'30 23°S16'56 46.63421 AU 24°S50'48 23°S50'37 44.79561 AU	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21 1°Ω53'51 16°06'42 1°Ω56'46 47.82821 AU
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36	21°539'05 23°513'36 -15°42'08 23°513'36 15°42'30 23°516'56 46.63421 AU 24°550'48 23°550'37 44.79561 AU 23°548'01 -16°25'56	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21 1°Ω53'51 16°06'42 1°Ω56'46 47.82821 AU 3°Ω28'22
conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37	21°S39'05 23°S13'36 -15°42'08 23°S13'36 15°42'30 23°S16'56 46.63421 AU 24°S50'48 23°S50'37 44.79561 AU	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21 1°Ω53'51 16°06'42 1°Ω56'46 47.82821 AU 3°Ω28'22 2°Ω28'47 45.97725 AU
direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36	21°539'05 23°513'36 -15°42'08 23°513'36 15°42'30 23°516'56 46.63421 AU 24°550'48 23°550'37 44.79561 AU 23°548'01 -16°25'56	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21 1°Ω53'51 16°06'42 1°Ω56'46 47.82821 AU 3°Ω28'22 2°Ω28'47 45.97725 AU 2°Ω26'34 -16°48'43
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36	21°539'05 23°513'36 -15°42'08 23°513'36 15°42'30 23°516'56 46.63421 AU 24°550'48 23°550'37 44.79561 AU 23°548'01 -16°25'56	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21 1°Ω53'51 16°06'42 1°Ω56'46 47.82821 AU 3°Ω28'22 2°Ω28'47 45.97725 AU
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conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Apr 01 11:33	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50	1°Ω25'38 45.84267 AU 1°Ω23'20 -16°47'03 0°Ω22'08 1°Ω53'51 -16°06'21 1°Ω53'51 16°06'42 1°Ω56'46 47.82821 AU 3°Ω28'22 2°Ω28'47 45.97725 AU 2°Ω26'34 -16°48'43
direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Apr 01 11:33 9767 Jul 09 04:08 9767 Jul 09 04:08	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12	1°\$\Omega_25'38 45.84267 \text{ AU} 1°\$\Omega_23'20 -16°47'03 0°\$\Omega_22'08 1°\$\Omega_53'51 -16°06'21 1°\$\Omega_53'51 16°06'42 1°\$\Omega_56'46 47.82821 \text{ AU} 3°\$\Omega_28'22 2°\$\Omega_28'47 45.97725 \text{ AU} 2°\$\Omega_26'34 -16°48'43 1°\$\Omega_25'29 25'29
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direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27	1° \$\Omega_25'38 45.84267 AU 1° \$\Omega_23'20 -16°47'03 0° \$\Omega_22'08 1° \$\Omega_53'51 -16°06'21 1° \$\Omega_53'51 16°06'42 1° \$\Omega_56'46 47.82821 AU 3° \$\Omega_28'22 2° \$\Omega_28'47 45.97725 AU 2° \$\Omega_26'34 -16°48'43 1° \$\Omega_25'29 2° \$\Omega_56'53 -16°07'54 2° \$\Omega_56'54 16°08'14 16'08'14 16'08'14 16'08'14 16'08'14 \q
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	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20	1° \$\Omega_25'38 45.84267 AU 1° \$\Omega_23'20 -16° 47'03 0° \$\Omega_22'08 1° \$\Omega_53'51 -16° 06'21 1° \$\Omega_55'51 16° 06'42 1° \$\Omega_56'46 47.82821 AU 3° \$\Omega_28'22 2° \$\Omega_28'47 45.97725 AU 2° \$\Omega_26'34 -16° 48'43 1° \$\Omega_25'29 2° \$\Omega_56'53 -16° 08'14 2° \$\Omega_56'54 16° 08'14 2° \$\Omega_59'45 47.96121 AU 4° \$\Omega_31'07 \qua
conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 17 14:46	1° \$\Omega_25'38 45.84267 AU 1° \$\Omega_23'20 -16° 47'03 0° \$\Omega_22'08 1° \$\Omega_53'51 -16° 06'21 1° \$\Omega_55'51 16° 06'42 1° \$\Omega_56'46 47.82821 AU 3° \$\Omega_28'22 20' \$\Omega_56'47 45.97725 AU 2° \$\Omega_56'54 -16° 48'43 1° \$\Omega_25'29 20' \$\Omega_56'54 16° 08'14 2° \$\Omega_56'54 16° 08'14 2° \$\Omega_59'45 47.96121 AU 4° \$\Omega_31'07 3° \$\Omega_31'41 46.10903 AU 31'07 30' 31'41 46.10903 AU 31'41 46.10903 AU
direct 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	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Apr 01 11:33 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39 9768 Apr 01 18:52	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24	min. Earth dist. opposition direct 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. retrograde min. Earth dist. opposition	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 17 14:46 9776 Jan 19 13:24	1° \$\Omega_{25'38}\$ 45.84267 AU 1° \$\Omega_{23'20}\$ -16° 47'03 0° \$\Omega_{22'08}\$ 1° \$\Omega_{53'51}\$ -16° 06'21 1° \$\Omega_{53'51}\$ 16° 06'42 1° \$\Omega_{56'46}\$ 47.82821 AU 3° \$\Omega_{28'22}\$ 2° \$\Omega_{28'47}\$ 45.97725 AU 2° \$\Omega_{26'34}\$ -16° 48'43 1° \$\Omega_{25'29}\$ 2° \$\Omega_{56'53}\$ -16° 07'54 2° \$\Omega_{56'54}\$ 16° 08'14 2° \$\Omega_{59'45}\$ 47.96121 AU 4° \$\Omega_{31'07}\$ 3° \$\Omega_{31'41}\$ 46.10903 AU 3° \$\Omega_{29'26}\$ -16° 50'02
direct 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	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Apr 01 11:33 9767 Jul 09 04:08 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39 9768 Apr 01 18:52	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24 25°\$26'13 -15°50'08	min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 17 14:46	1° \$\Omega_25'38 45.84267 AU 1° \$\Omega_23'20 -16° 47'03 0° \$\Omega_22'08 1° \$\Omega_53'51 -16° 06'21 1° \$\Omega_55'51 16° 06'42 1° \$\Omega_56'46 47.82821 AU 3° \$\Omega_28'22 20' \$\Omega_56'47 45.97725 AU 2° \$\Omega_56'54 -16° 48'43 1° \$\Omega_25'29 20' \$\Omega_56'54 16° 08'14 2° \$\Omega_56'54 16° 08'14 2° \$\Omega_59'45 47.96121 AU 4° \$\Omega_31'07 3° \$\Omega_31'41 46.10903 AU 31'07 30' 31'41 46.10903 AU 31'41 46.10903 AU
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direct 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.	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 09 12:18	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24 25°\$26'13 -15°50'08 25°\$26'13 15°50'29 25°\$29'25 46.95997 AU	min. Earth dist. opposition direct 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. copposition direct	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 19 13:24 9776 Apr 10 16:01	1° \$\Omega_25'38 45.84267 AU 1° \$\Omega_23'20 -16°47'03 0° \$\Omega_22'08 1° \$\Omega_53'51 -16°06'21 1° \$\Omega_53'51 16°06'42 1° \$\Omega_56'46 47.82821 AU 3° \$\Omega_28'22 2° \$\Omega_28'47 45.97725 AU 2° \$\Omega_26'34 -16°48'43 1° \$\Omega_25'29 2° \$\Omega_56'53 -16°07'54 2° \$\Omega_56'54 16°08'14 2° \$\Omega_59'45 47.96121 AU 4° \$\Omega_31'07 3° \$\Omega_31'41 46.10903 AU 3° \$\Omega_29'26 -16°50'02 2° \$\Omega_28'29 3° \$\Omega_59'35 -16°09'07 \end{array}
direct 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. retrograde retrograde min. Earth dist. opposition direct	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 11 15:48 9768 Oct 19 14:34	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24 25°\$26'13 -15°50'08 25°\$26'13 15°50'29 25°\$29'25 46.95997 AU 27°\$02'45	min. Earth dist. opposition direct 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. copposition direct conjunction minimum elong	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 19 13:24 9776 Jan 19 13:24 9776 Jul 18 00:18 9776 Jul 18 00:18	1° \$\Omega_25'38 45.84267 AU 1° \$\Omega_23'20 -16° 47'03 0° \$\Omega_22'08 1° \$\Omega_53'51 -16° 06'21 1° \$\Omega_53'51 16° 06'42 1° \$\Omega_56'46 47.82821 AU 3° \$\Omega_28'22 2° \$\Omega_28'47 45.97725 AU 2° \$\Omega_26'34 -16° 48'43 1° \$\Omega_25'29 2° \$\Omega_56'53 -16° 07'54 2° \$\Omega_56'54 16° 08'14 2° \$\Omega_59'45 47.96121 AU 4° \$\Omega_31'07 3° \$\Omega_31'41 46.10903 AU 3° \$\Omega_29'26 -16° 50'02 2° \$\Omega_28'29 3° \$\Omega_59'35 -16° 09'07 3° \$\Omega_59'35 16° 09'28 16° 09'28 16° 16° 16° 16° 16° 16° 16° 16° 16° 16°
direct 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	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 11 15:48 9768 Oct 19 14:34 9769 Jan 09 00:53	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24 25°\$26'13 -15°50'08 25°\$26'13 15°50'29 25°\$29'25 46.95997 AU 27°\$02'45 26°\$02'49 45.11797 AU	min. Earth dist. opposition direct 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.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 19 13:24 9776 Jan 19 13:24 9776 Jul 18 00:18 9776 Jul 18 00:18 9776 Jul 18 00:19 9776 Jul 19 22:26	1° \$\Omega_{25}'38 45.84267 AU 1° \$\Omega_{22}'08 \text{10} \text{10} \text{20} \text{10} \text{20} \text{10} \text{20} \text{20}
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direct 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	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 11 15:48 9768 Oct 19 14:34 9769 Jan 09 00:53	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24 25°\$26'13 -15°50'08 25°\$26'13 15°50'29 25°\$29'25 46.95997 AU 27°\$02'45 26°\$02'49 45.11797 AU	min. Earth dist. opposition direct 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. retrograde min. Earth dist. retrograde min. Earth dist. retrograde min. Earth dist.	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Apr 10 07:12 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 19 13:24 9776 Jan 19 13:24 9776 Jul 18 00:18 9776 Jul 18 00:18 9776 Jul 18 00:19 9776 Jul 19 22:26	1° \$\Omega_{23}'20 \\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{33}'51 \\ -16° 06'21\\ 1° \$\Omega_{53}'51 \\ 16° 06'42\\ 1° \$\Omega_{56}'46 \\ 47.82821 \text{ AU}\\ 3° \$\Omega_{28}'22\\ 2° \$\Omega_{28}'47 \\ 45.97725 \text{ AU}\\ 2° \$\Omega_{56}'54 \\ -16° 48'43\\ 1° \$\Omega_{25}'29\\ 2° \$\Omega_{56}'54 \\ 16° 08'14\\ 2° \$\Omega_{56}'54 \\ 16° 08'14\\ 2° \$\Omega_{59}'45 \\ 47.96121 \text{ AU}\\ 4° \$\Omega_{31}'07\\ 3° \$\Omega_{31}'41 \\ 46.10903 \text{ AU}\\ 3° \$\Omega_{59}'26 \\ -16° 09'07\\ 3° \$\Omega_{59}'35 \\ 16° 09'28\\ 4° \$\Omega_{22}'23 \\ 48.09128 \text{ AU}\\ 5° \$\Omega_{33}'33\\ 4° \$\Omega_{31}'10 \\ 46.23784 \text{ 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	9766 Mar 31 04:40 9766 Jul 07 19:41 9766 Jul 07 19:40 9766 Jul 10 00:54 9766 Oct 17 20:47 9767 Jan 07 05:37 9767 Jan 09 10:36 9767 Jul 09 04:08 9767 Jul 09 04:06 9767 Jul 11 09:33 9767 Oct 19 05:38 9768 Jan 08 15:55 9768 Jan 10 19:39 9768 Apr 01 18:52 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 09 12:18 9768 Jul 11 15:48 9768 Oct 19 14:34 9769 Jan 09 00:53 9769 Jan 11 04:29	21°\$39'05 23°\$13'36 -15°42'08 23°\$13'36 15°42'30 23°\$16'56 46.63421 AU 24°\$50'48 23°\$50'37 44.79561 AU 23°\$48'01 -16°25'56 22°\$45'54 24°\$20'04 -15°46'18 24°\$20'04 15°46'39 24°\$23'24 46.79938 AU 25°\$56'57 24°\$56'52 44.95920 AU 24°\$54'20 -16°29'56 23°\$52'24 25°\$26'13 -15°50'08 25°\$26'13 15°50'29 25°\$29'25 46.95997 AU 27°\$02'45 26°\$02'49 45.11797 AU 26°\$00'18 -16°33'37	min. Earth dist. opposition direct 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. opposition direct	9774 Jan 14 22:23 9774 Jan 16 21:57 9774 Apr 08 22:22 9774 Jul 16 10:17 9774 Jul 16 10:18 9774 Jul 18 10:08 9774 Oct 26 08:45 9775 Jan 16 07:42 9775 Jan 18 05:50 9775 Jul 17 17:25 9775 Jul 17 17:27 9775 Jul 17 17:27 9775 Jul 19 16:26 9775 Oct 27 14:20 9776 Jan 19 13:24 9776 Jul 18 00:18 9776 Jul 18 00:19 9776 Jul 19 22:26 9776 Oct 27 23:03	1° \$\Omega_{23}'20 \\ 1° \$\Omega_{23}'20 \\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{22}'08\\ 1° \$\Omega_{33}'51 \\ 1° \$\Omega_{53}'51 \\ 1° \$\Omega_{53}'51 \\ 1° \$\Omega_{53}'51 \\ 16° 06'42 \\ 1° \$\Omega_{56}'46 \\ 47.82821 \text{ AU} 3° \$\Omega_{28}'22 \\ 2° \$\Omega_{28}'47 \\ 45.97725 \text{ AU} 2° \$\Omega_{26}'34 \\ -16° 48'43 \\ 1° \$\Omega_{25}'29 \\ 2° \$\Omega_{56}'53 \\ -16° 07'54 \\ 2° \$\Omega_{56}'54 \\ 16° 08'14 \\ 2° \$\Omega_{56}'54 \\ 4° \$\Omega_{14}'07 \\ 3° \$\Omega_{31}'41 \\ 4° \$\Omega_{16}'090 \text{ AU} 3° \$\Omega_{29}'26 \\ -16° 50'02 \\ 2° \$\Omega_{28}'29 \\ 3° \$\Omega_{59}'35 \\ 16° 09'28 \\ 4° \$\Omega_{223} \\ 48.09128 \text{ AU} 5° \$\Omega_{33}'33

4:4	0777 A 12 00:04	20 0 2 1 1 1		0705 I1 27 11.07	129 0 1212 (16907126
direct	9777 Apr 12 00:04	3° Ω 31'11	minimum elong max. Earth dist.	9785 Jul 27 11:07	13° Ω 12'26 16°07'26
aaniumatian	0777 Iul 10 07:17	50 00200 1601001		9785 Jul 29 01:32	13° Ω 14'43 49.07549 AU 14° Ω 44'13
conjunction	9777 Jul 19 07:17	5°Ω02'00 -16°10'01	retrograde	9785 Nov 06 08:52	14° Ω 45'24 47.20224 AU
minimum elong	9777 Jul 19 07:20	5° Ω 02'00 16°10'21 5° Ω 04'48 48.21828 AU	min. Earth dist.	9786 Jan 27 20:51	13°Ω43'24 47.20224 AU 13°Ω43'37 -16°46'47
max. Earth dist.	9777 Jul 21 05:40 9777 Oct 29 07:07	6°Ω35'42	opposition	9786 Jan 29 10:43	
retrograde			direct	9786 Apr 21 11:26	12° Ω 43'46
min. Earth dist.	9778 Jan 19 07:34	5° Ω 36'25 46.36315 AU		0706 1 1 20 16 52	140 0 1010 4 1 600 5100
opposition	9778 Jan 21 04:13	5° Ω 34'17 -16°51'41	conjunction	9786 Jul 28 16:53	14°Ω12'24 -16°05'33
direct	9778 Apr 13 06:39	4° £ 33'36	minimum elong	9786 Jul 28 17:00	14°Ω12'25 16°05'50
			max. Earth dist.	9786 Jul 30 06:36	14°Ω14'38 49.16409 AU
conjunction	9778 Jul 20 14:00	6° Ω 04'11 -16°10'37		9786 Sep 02 01:29	15° Ω
minimum elong	9778 Jul 20 14:02	6° Ω 04'11 16°10'57	retrograde	9786 Nov 07 15:11	15° Ω 43'59
max. Earth dist.	9778 Jul 22 10:36	6° Ω 06'52 48.34170 AU		9787 Jan 15 22:34	15° ₹Ω
retrograde	9778 Oct 30 16:22	7° £ 37′37	min. Earth dist.	9787 Jan 29 04:32	14° Ω 45'11 47.28925 AU
min. Earth dist.	9779 Jan 20 15:05	6° Ω 38'28 46.48474 AU	opposition	9787 Jan 30 17:03	14° Ω 43'28 -16°44'54
opposition	9779 Jan 22 11:31	6° Ω 36'21 -16°52'02	direct	9787 Apr 22 20:01	13° Ω 43'43
direct	9779 Apr 14 10:48	5° Ω 35'49		9787 Jul 21 07:53	15° Ω
conjunction	9779 Jul 21 20:40	7° Ω 06'08 -16°10'55	conjunction	9787 Jul 29 22:42	15° Ω 12'08 -16°03'40
minimum elong	9779 Jul 21 20:45	7° Ω 06'09 16°11'15	minimum elong	9787 Jul 29 22:48	15° Ω 12'08 16°03'58
max. Earth dist.	9779 Jul 23 17:18	7° Ω 08'49 48.46101 AU	max. Earth dist.	9787 Jul 31 12:42	15° Ω 14'22 49.25002 AU
retrograde	9779 Oct 31 21:07	8° Ω 39′21	retrograde	9787 Nov 08 22:20	16° Ω 43'31
min. Earth dist.	9780 Jan 22 00:20	7° Ω 40'14 46.60181 AU	min. Earth dist.	9788 Jan 30 10:54	15° Ω 44'48 47.37337 AU
opposition	9780 Jan 23 18:47	7° Ω 38'12 -16°52'06	opposition	9788 Jan 31 23:09	15° Ω 43'05 -16°42'43
direct	9780 Apr 14 18:55	6° Ω 37'49	11	9788 Mar 14 07:17	15°R Ω
	,,,,,,-p		direct	9788 Apr 23 02:58	14° Ω 43'25
conjunction	9780 Jul 22 03:27	8° Ω 07'53 -16°10'57	ancer	9788 May 31 23:10	15° Ω
minimum elong	9780 Jul 22 03:30	8°Ω07'53 16°11'16		7700 Way 31 23.10	13 60
max. Earth dist.	9780 Jul 23 22:38	8°Ω10'29 48.57567 AU	conjunction	9788 Jul 30 04:26	16° Ω 11'38 -16°01'31
retrograde	9780 Nov 01 01:50	9°Ω40'52	minimum elong	9788 Jul 30 04:33	16°Ω11'39 16°01'47
min. Earth dist.	9781 Jan 22 07:23	8°Ω41'52 46.71387 AU	max. Earth dist.	9788 Jul 30 04:33 9788 Jul 31 16:45	16° Ω 13'46 49.33313 AU
		8° Ω39'50 -16°51'53			10 δ (13 40 49.33313 AU 17° Ω 42'50
opposition	9781 Jan 24 01:39		retrograde	9788 Nov 09 07:56	
direct	9781 Apr 16 03:47	7° Ω 39'34	min. Earth dist.	9789 Jan 30 17:08	16° Ω 44'11 47.45470 AU
	0501 1 1 22 10 02	00.00004 1.0010140	opposition	9789 Feb 01 05:04	16°Ω42'30 -16°40'15
conjunction	9781 Jul 23 10:03	9° Ω 09'24 -16°10'43	direct	9789 Apr 24 04:58	15° Ω 42'56
minimum elong	9781 Jul 23 10:09	9° Ω 09'25 16°11'02		.=	0
max. Earth dist.	9781 Jul 25 03:49	9° Ω 11'54 48.68504 AU	conjunction	9789 Jul 31 10:12	17° Ω 10'59 -15°59'04
retrograde	9781 Nov 02 10:27	10° Ω 42'09	minimum elong	9789 Jul 31 10:18	17° Ω 10'59 15°59'22
min. Earth dist.	9782 Jan 23 16:14	9° Ω 43'10 46.82062 AU	max. Earth dist.	9789 Aug 01 22:42	17° Ω 13'07 49.41325 AU
opposition	9782 Jan 25 08:41	9° Ω 41'14 -16°51'24	retrograde	9789 Nov 10 13:11	18° Ω 41'59
direct	9782 Apr 17 11:23	8° Ω 41'04	min. Earth dist.	9790 Feb 01 00:42	17° Ω 43'22 47.53273 AU
			opposition	9790 Feb 02 11:04	17° Ω 41'45 -16°37'30
conjunction	9782 Jul 24 16:32	10° Ω 10′39 -16°10′13	direct	9790 Apr 25 10:25	16° Ω 42'18
minimum elong	9782 Jul 24 16:36	10° Ω 10'39 16°10'32			
max. Earth dist.	9782 Jul 26 09:56	10° Ω 13'07 48.78925 AU	conjunction	9790 Aug 01 15:43	18° Ω 10'09 -15°56'21
retrograde	9782 Nov 03 17:05	11° Ω 43′09	minimum elong	9790 Aug 01 15:51	18° Ω 10'10 15°56'38
min. Earth dist.	9783 Jan 24 23:48	10° Ω 44'13 46.92212 AU	max. Earth dist.	9790 Aug 03 03:08	18° Ω 12'14 49.49006 AU
opposition	9783 Jan 26 15:28	10° Ω 42'19 -16°50'40	retrograde	9790 Nov 11 15:48	19° Ω 41'00
direct	9783 Apr 18 18:36	9° Ω 42'15	min. Earth dist.	9791 Feb 02 06:24	18° Ω 42'29 47.60713 AU
			opposition	9791 Feb 03 16:54	18° Ω 40'51 -16°34'29
conjunction	9783 Jul 25 22:47	11° Ω 11'34 -16°09'28	direct	9791 Apr 26 16:55	17° Ω 41'30
minimum elong	9783 Jul 25 22:52	11° Ω 11'35 16°09'47			
max. Earth dist.	9783 Jul 27 14:18	11° Ω 13'55 48.88860 AU	conjunction	9791 Aug 02 21:18	19° Ω 09'12 -15°53'24
retrograde	9783 Nov 05 01:10	12° Ω 43'50	minimum elong	9791 Aug 02 21:25	19° Ω 09'13 15°53'40
min. Earth dist.	9784 Jan 26 06:59	11° Ω 44'56 47.01923 AU	max. Earth dist.	9791 Aug 04 07:35	19° Ω 11'12 49.56285 AU
opposition	9784 Jan 27 22:04	11° Ω 43'05 -16°49'40	retrograde	9791 Nov 12 21:11	20° Ω 39'54
direct	9784 Apr 18 22:14	10° Ω 43'05	opposition	9792 Feb 04 22:46	19° Ω 39'50 -16°31'13
anoct	770171pi 10 22.14	10 0610 00	min. Earth dist.	9792 Feb 04 22:40 9792 Feb 03 14:09	19° Ω 41'22 47.67730 AU
conjunction	9784 Jul 26 04:58	12° Ω 12'10 -16°08'27	direct		19° Ω 40'35
conjunction	9784 Jul 26 05:03	$12^{\circ} \Omega 12^{\circ} 10^{\circ} - 16^{\circ} 08^{\circ} 27^{\circ}$ $12^{\circ} \Omega 12^{\circ} 10^{\circ} 16^{\circ} 08^{\circ} 44^{\circ}$	uncet	9792 Apr 27 00:12	10 0640 33
minimum elong			agniumatic=	0702 Ave 02 02:02	200 00007 15050111
max. Earth dist.	9784 Jul 27 20:37	12°Ω14'31 48.98378 AU	conjunction	9792 Aug 03 03:02	20° Ω 08'07 -15°50'11
retrograde	9784 Nov 05 05:22	13° Ω 44'11	minimum elong	9792 Aug 03 03:11	20°Ω08'07 15°50'28
min. Earth dist.	9785 Jan 26 15:03	12° Ω 45'16 47.11238 AU	max. Earth dist.	9792 Aug 04 12:55	20°Ω10'05 49.63114 AU
opposition	9785 Jan 28 04:34	12° Ω 43'30 -16°48'22	retrograde	9792 Nov 13 02:55	21° Q 38'39
direct	9785 Apr 20 04:46	11° Ω 43'35	min. Earth dist.	9793 Feb 03 20:36	20°Ω40'10 47.74242 AU
			opposition	9793 Feb 05 04:29	20° Ω 38'40 -16°27'42
conjunction	9785 Jul 27 11:01	13° Ω 12'26 -16°07'08	direct	9793 Apr 28 07:26	19° Ω 39'29

conjunction	9793 Aug 04 08:34	21° Ω 06'51 -15°46	'45	9801 Oct 11 15:52	0° m	
minimum elong	9793 Aug 04 08:42	21°Ω06'51 15°47		9801 Nov 23 02:26	0° Mp 18'20	
max. Earth dist.	9793 Aug 05 16:12	21°Ω08'41 49.694	· ·	9802 Jan 05 09:16	30°RΩ	
retrograde	9793 Nov 14 11:13	22° Ω 37'13	min. Earth dist.	9802 Feb 14 04:43		48.13205 AU
min. Earth dist.	9794 Feb 05 03:19	21° Ω 38'45 47.802		9802 Feb 15 04:20	29°Ω18'51	
opposition	9794 Feb 06 10:08	21° Ω 37'19 -16°23	11	9802 May 08 04:59	28° Ω 20'09	
direct	9794 Apr 29 11:07	20° £ 38′11				
	r		conjunction	9802 Aug 14 07:16	29° Ω 46′21	-15°05'13
conjunction	9794 Aug 05 14:09	22° Ω 05'23 -15°43	3	9802 Aug 14 07:26		15°05'27
minimum elong	9794 Aug 05 14:18	22° Ω 05'23 15°43	max. Earth dist.	9802 Aug 15 08:17	29° Ω 47'47	50.07348 AU
max. Earth dist.	9794 Aug 06 21:32	22° Ω 07'12 49.751	93 AU	9802 Aug 24 06:16	0° m	
retrograde	9794 Nov 15 16:29	23° Ω 35'34	retrograde	9802 Nov 24 07:50	1° m/ 15'35	
min. Earth dist.	9795 Feb 06 10:46	22° Ω 37'04 47.856	•	9803 Feb 15 10:04	0° mp 17'15	48.15789 AU
opposition	9795 Feb 07 15:49	22° Ω 35'42 -16°20	'00 opposition	9803 Feb 16 09:20	0° Mp 16'10	-15°39'20
direct	9795 Apr 30 15:48	21° Ω 36'38	**	9803 Mar 03 01:13	30°RΩ	
	•		direct	9803 May 09 11:32	29° Ω 17'33	
conjunction	9795 Aug 06 19:28	23° Ω 03'39 -15°39	'13	9803 Jul 13 05:07	o° m ⁄	
minimum elong	9795 Aug 06 19:36	23° Ω 03'39 15°39	28			
max. Earth dist.	9795 Aug 08 01:18	23° Ω 05′22 49.804	77 AU conjunction	9803 Aug 15 12:09	0° Mp 43'40	-14°59'24
retrograde	9795 Nov 16 20:17	24° Ω 33'39	minimum elong	9803 Aug 15 12:20	0° Mp 43'41	14°59'36
opposition	9796 Feb 08 21:16	23° Ω 33'50 -16°15	'49 max. Earth dist.	9803 Aug 16 11:14	0° Mp 44'59	50.09818 AU
min. Earth dist.	9796 Feb 07 16:13	23° Ω 35'12 47.906	63 AU retrograde	9803 Nov 25 16:12	2° m/ 12'51	
direct	9796 Apr 30 20:30	22° Ω 34'47	opposition	9804 Feb 17 14:23	1° mp 13'30	-15°33'08
	•		min. Earth dist.	9804 Feb 16 16:17	1° m/ 14'32	48.17943 AU
conjunction	9796 Aug 07 00:47	24° Ω 01'39 -15°35	'07 direct	9804 May 09 14:24	0° Mp 14'57	
minimum elong	9796 Aug 07 00:56	24° Ω 01'39 15°35	evening set	9804 Aug 13 20:21	1° Mp 38'27	
max. Earth dist.	9796 Aug 08 05:33	24° Ω 03'19 49.853	•	Č	•	
retrograde	9796 Nov 17 00:41	25° Ω 31'30	conjunction	9804 Aug 15 17:21	1° m)41'01	-14°53'21
min. Earth dist.	9797 Feb 07 23:28	24° Ω 32'59 47.952	36 AU minimum elong	9804 Aug 15 17:32	1° Mp 41'01	14°53'33
opposition	9797 Feb 09 02:35	24° Ω 31'43 -16°11	222 morning rise	9804 Aug 17 14:46	1° Mp 43'36	
direct	9797 May 02 03:54	23° Ω 32'43	max. Earth dist.	9804 Aug 16 16:03		50.11811 AU
	j		retrograde	9804 Nov 25 22:10	3° m) 10'07	
conjunction	9797 Aug 08 06:06	24° Ω 59'25 -15°30	•	9805 Feb 17 19:17	2° m/ 10'50	-15°26'44
minimum elong	9797 Aug 08 06:16	24° Ω 59'25 15°31		9805 Feb 16 23:00	2° m/11'47	48.19578 AU
max. Earth dist.	9797 Aug 09 10:50	25° Ω 01'04 49.897	70 AU direct	9805 May 10 17:21	1° m) 12'20	
retrograde	9797 Nov 18 05:25	26° Ω 29'07	evening set	9805 Aug 14 07:27	2° m) 34'44	
min. Earth dist.	9798 Feb 09 04:53	25° Ω 30'38 47.994	•	Ü	•	
opposition	9798 Feb 10 07:50	25° Ω 29'23 -16°06		9805 Aug 16 22:29	2°m 38'21	-14°47'06
direct	9798 May 03 11:09	24° Ω 30′25	minimum elong	9805 Aug 16 22:41	2° m 38'21	14°47'19
	J		max. Earth dist.	9805 Aug 17 19:23	-•	50.13278 AU
conjunction	9798 Aug 09 11:02	25° Ω 56'59 -15°26		9805 Aug 19 14:01	2° m 41'58	
minimum elong	9798 Aug 09 11:11	25° Ω 56'59 15°26	•	9805 Nov 27 02:35	4° ا ش 07'22	
max. Earth dist.	9798 Aug 10 14:01	25° Ω 58'32 49.938	· ·	9806 Feb 18 04:16		48.20665 AU
retrograde	9798 Nov 19 13:55	27° Ω 26'34	opposition	9806 Feb 19 00:13	3° m 08'08	
min. Earth dist.	9799 Feb 10 10:42	26° Ω 28'06 48.033		9806 May 11 20:18	2° m 09'39	
opposition	9799 Feb 11 13:07	26°Ω26'52 -16°01		9806 Aug 14 21:59	3° mp 31'10	
direct	9799 May 04 13:27	25° Ω 27'58		, , , , , , , , , , , , , , , , , , , ,		
			conjunction	9806 Aug 18 03:24	3° m 35'35	-14°40'39
conjunction	9799 Aug 10 16:11	26° Ω 54'25 -15°21	·	9806 Aug 18 03:35	3° m/35'36	
minimum elong	9799 Aug 10 16:22	26° Ω 54'25 15°21	•	9806 Aug 18 22:49	3° m 36'42	50.14182 AU
max. Earth dist.	9799 Aug 11 19:27	26° Ω 55'59 49.977		9806 Aug 21 09:19	3° m 40'02	
retrograde	9799 Nov 20 19:40	28° Ω 23'53	retrograde	9806 Nov 28 05:58	5° m 04'32	
opposition	9800 Feb 12 18:16	27° Ω 24'15 -15°56		9807 Feb 19 11:31	-•	48.21202 AU
min. Earth dist.	9800 Feb 11 17:10	27° Ω 25'25 48.069		9807 Feb 20 05:17	4° mp 05'18	
direct	9800 May 05 17:40	26° Ω 25'24	direct	9807 May 13 02:51	3° m 06'51	
	· · · ·		evening set	9807 Aug 15 14:48	4° m) 27'34	
conjunction	9800 Aug 11 21:14	27° Ω 51'45 -15°16	•		• • • •	
minimum elong	9800 Aug 11 21:23	27°Ω51'46 15°16		9807 Aug 19 08:29	4° mp 32'41	-14°34'00
max. Earth dist.	9800 Aug 12 23:20	$27^{\circ}\Omega53'15 = 15'16$ $27^{\circ}\Omega53'15 = 50.012$	3	9807 Aug 19 08:40	4° mp 32'42	
retrograde	9800 Nov 21 22:25	29° Ω 21'07	max. Earth dist.	9807 Aug 20 03:30		50.14569 AU
opposition	9801 Feb 13 23:16	28°Ω21'33 -15°51		9807 Aug 23 02:41	4° mp 37'50	
min. Earth dist.	9801 Feb 12 21:58	$28^{\circ}\Omega 22'44 + 48.102$	ū	9807 Nov 29 08:59	6° m 01'33	
direct	9801 May 06 22:20	27° Ω 22'47	opposition	9808 Feb 21 10:00	5° mp 02'20	-15°06'17
		· • • · ·	min. Earth dist.	9808 Feb 20 16:42		48.21234 AU
conjunction	9801 Aug 13 02:10	28° Ω 49'03 -15°10		9808 May 13 11:09	4° Mp 03'51	2.2.2.2.2.110
minimum elong	9801 Aug 13 02:10	28°Ω49'03 15°11		9808 Aug 15 08:35	5° m 23'53	
max. Earth dist.	9801 Aug 14 03:17	$28^{\circ}\Omega$ 50'29 50.044	0		= J J J	
		555027 50.044	·			

agniunation	9808 Aug 19 13:20	5° m) 29'37 -14°	27'09 direct	9815 May 20 17:19	10° m 39'28
conjunction	=	•		•	•
minimum elong	9808 Aug 19 13:31	5° Mp 29'38 14°	· ·	9815 Aug 20 04:35	11° m 55'47
max. Earth dist.	9808 Aug 20 06:12	5° m/30'35 50.1		0015 1 06 00 51	120 - 05100 12020142
morning rise	9808 Aug 23 18:42	5° M 35'24	conjunction	9815 Aug 26 22:51	12° mg 05'00 -13°32'43
retrograde	9808 Nov 29 17:10	6° Mp 58′24	minimum elo	· ·	12° mg 05'00 13°32'52
opposition	9809 Feb 21 14:47	5° Mp 59'10 -14°		Č	12°Mp05'39 50.04248 AU
min. Earth dist.	9809 Feb 20 22:31	5° Mp 59'56 48.2	20837 AU morning rise	9815 Sep 02 18:00	12° m 14'15
direct	9809 May 14 14:43	5° Mp 00'41	retrograde	9815 Dec 07 03:35	13° m 33'33
evening set	9809 Aug 16 03:11	6° Mp 20′04	opposition	9816 Feb 28 23:08	12° Mp 34'23 -14°01'39
			min. Earth dist	9816 Feb 28 12:15	12°Mp34'53 48.08584 AU
conjunction	9809 Aug 20 18:12	6° Mp 26′22 -14°	20'04 direct	9816 May 20 19:30	11° Mp 35'57
minimum elong	9809 Aug 20 18:23	6° Mp 26′23 14°	20'15 evening set	9816 Aug 20 01:58	12° Mp 51'54
max. Earth dist.	9809 Aug 21 11:08	6° Mp 27'20 50.1	13988 AU		
morning rise	9809 Aug 25 09:50	6° Mp 32′44	conjunction	9816 Aug 27 03:46	13° To 01'31 -13°24'03
retrograde	9809 Nov 30 23:38	7° m 55'05	minimum elo	•	13° Mp 01'32 13°24'11
opposition	9810 Feb 22 19:28	6° m 55'50 -14°		•	13° m/02'06 50.01332 AU
min. Earth dist.	9810 Feb 22 04:36	6° m 56'32 48.2		9816 Sep 03 06:35	13° m/ 11'12
direct	9810 May 15 18:32	5° m 57'21	retrograde	9816 Dec 07 07:45	14° m) 30'06
evening set	9810 Aug 16 22:29	7° Mp 16'07	opposition	9817 Mar 01 03:51	13° m/30'57 -13°52'32
evening set	9010 Aug 10 22.29	/ 100/	min. Earth dist		13° m 31'21 48.05300 AU
	0010 4 21 22-50	70 m 22/50 1/10			•
conjunction	9810 Aug 21 22:59	7° m/22'58 -14°		9817 May 22 00:16	12° m 32'32
minimum elong	9810 Aug 21 23:11	7° Tp 22'59 14°	Č	9817 Aug 20 23:43	13° Mp 48'06
max. Earth dist.	9810 Aug 22 14:44	7° m/23'52 50.1			
morning rise	9810 Aug 27 00:09	7° Mp 29′51	conjunction	9817 Aug 28 08:48	13° m 58'07 -13°15'10
retrograde	9810 Dec 02 03:10	8° Mp 51'36	minimum elo	ng 9817 Aug 28 09:00	13° To 58'08 13° 15' 18
min. Earth dist.	9811 Feb 23 09:00	7° Mp 53'04 48.1	8942 AU max. Earth dis	t. 9817 Aug 28 18:25	13° Mp 58'40 49.97911 AU
opposition	9811 Feb 24 00:06	7° Mp 52'22 -14°	morning rise	9817 Sep 04 18:48	14° Mp 08'13
direct	9811 May 16 21:32	6° ₩ 53'52	retrograde	9817 Dec 08 10:49	15° m 26'44
evening set	9811 Aug 17 18:03	8° Mp 12'04	opposition	9818 Mar 02 08:26	14° Mp 27'34 -13°43'14
			min. Earth dist	9818 Mar 02 00:15	14° Mp 27'57 48.01478 AU
conjunction	9811 Aug 23 03:40	8° Mp 19'26 -14°	05'13 direct	9818 May 23 07:39	13° m 29'09
minimum elong	9811 Aug 23 03:51	8° Mp 19'27 14°	evening set	9818 Aug 21 21:41	14° M 44'21
max. Earth dist.	9811 Aug 23 18:22	8° Mp 20'17 50.1	1995 AU		
morning rise	9811 Aug 28 14:02	8° m 26'50	conjunction	9818 Aug 29 13:43	14° m 54'46 -13°06'06
retrograde	9811 Dec 03 05:49	9° m 48'02	minimum elo	•	14° m 54'47 13°06'14
opposition	9812 Feb 25 04:52	8° mp 48'47 -14°		•	14° m/55'11 49.93956 AU
min. Earth dist.	9812 Feb 24 15:24	8° m 49'24 48.1		9818 Sep 06 06:53	15° m) 05'16
direct	9812 May 17 03:29	7° m) 50'17	retrograde	9818 Dec 09 18:35	16° m 23'23
	9812 May 17 03:29 9812 Aug 17 14:19	9° m y 07'59	opposition	9819 Mar 03 13:07	15° m) 24'14 -13°33'43
evening set	9012 Aug 17 14.19	9 11/07 39	min. Earth dist		•
	0012 A 22 00-24	00 mm 1 5140 120			15° Mp 24'32 47.97138 AU
conjunction	9812 Aug 23 08:34	9° mp 15'49 -13°		9819 May 24 11:19	14° m 25'47
minimum elong	9812 Aug 23 08:47	9° mp 15'50 13°	· ·	9819 Aug 22 19:40	15° m 40'36
max. Earth dist.	9812 Aug 23 23:20	9° m 16'40 50.1			
morning rise	9812 Aug 29 03:33	9° m 23'43	conjunction	9819 Aug 30 18:43	15° m 51'25 -12°56'50
retrograde	9812 Dec 03 08:58	10° m 44'23	minimum elo	-	15° Th 51'26 12°56'57
opposition	9813 Feb 25 09:18	9°Mp45′08 -14°		Č	15°Mp51'49 49.89489 AU
min. Earth dist.	9813 Feb 24 19:55	9°Mp45'46 48.1	5802 AU morning rise	9819 Sep 07 18:48	16° Mp 02'18
direct	9813 May 18 10:20	8° Mp 46'39	retrograde	9819 Dec 11 01:34	17° m 20'03
evening set	9813 Aug 18 10:46	10° Mp 03'52	opposition	9820 Mar 03 17:47	16° Mp 20'52 -13°24'00
			min. Earth dist	9820 Mar 03 12:33	16° Mp 21'07 47.92297 AU
conjunction	9813 Aug 24 13:16	10° Mp 12'10 -13°	49'26 direct	9820 May 24 14:31	15° Mp 22'24
minimum elong	9813 Aug 24 13:28	10° m 12'11 13°	evening set	9820 Aug 22 18:03	16° Mp 36'51
max. Earth dist.	9813 Aug 25 02:14	10° mp 12'55 50.0	08791 AU		
morning rise	9813 Aug 30 16:39	10° m 20'32	conjunction	9820 Aug 30 23:41	16° Mp 48'03 -12° 47'22
retrograde	9813 Dec 04 16:11	11° mp 40'43	minimum elo	•	16° mp 48'04 12° 47'29
opposition	9814 Feb 26 13:59	10° mp 41'30 -14°		· ·	16° m 48'22 49.84566 AU
min. Earth dist.	9814 Feb 26 01:32	10° Mp 42'05 48.1		9820 Sep 08 06:27	16° Mp 59'19
direct	9814 Pcb 26 01:32 9814 May 19 13:42	9° m) 43'02	retrograde	9820 Sep 08 00.27 9820 Dec 11 06:23	18° Mp 16'42
	•	•	•		17° Mp 17'29 -13°14'04
evening set	9814 Aug 19 07:24	10° m 59'48	opposition	9821 Mar 04 22:10	•
	0014 4 25 17 50	110 m -00122 122	min. Earth dist		17° Mp 17'43 47.87035 AU
conjunction	9814 Aug 25 17:59	11° Mp 08'33 -13°		9821 May 25 16:57	16° Mp 18'58
minimum elong	00111	110 m (1012 / 120	'41'21 evening set	9821 Aug 23 16:22	17° m 33'06
	9814 Aug 25 18:12	11° m 08'34 13°			
max. Earth dist.	9814 Aug 26 07:01	11° mg 09'17 50.0			
max. Earth dist. morning rise	•	-	06705 AU conjunction	9821 Sep 01 04:35	17° mp44'40 -12°37'40
	9814 Aug 26 07:01	11° mg 09'17 50.0		•	17° mp44'40 -12°37'40 17° mp44'41 12°37'47
morning rise	9814 Aug 26 07:01 9814 Sep 01 05:26	11° Mp 09'17 50.0	conjunction minimum elo	ng 9821 Sep 01 04:47	•
morning rise retrograde	9814 Aug 26 07:01 9814 Sep 01 05:26 9814 Dec 05 22:15	11° mp 09'17 50.0 11° mp 17'22 12° mp 37'06	conjunction minimum elo max. Earth dis	ng 9821 Sep 01 04:47	17° m/44'41 12°37'47

rotro aro do	0021 Dag 12 00:44	100 m 12121	minimum alana	0020 Can 07 15:50	240 m 22152 11022121
retrograde	9821 Dec 12 08:44	19° M 13'21	minimum elong	9828 Sep 07 15:58	24° m/22'53 11°23'31
opposition	9822 Mar 06 02:51	18° m 14'05 -13°03'54	max. Earth dist.	9828 Sep 07 13:36	24° m 22'45 49.33164 AU
min. Earth dist.	9822 Mar 05 23:33	18° Mp 14'15 47.81404 AU	morning rise	9828 Sep 17 23:50	24° m/ 36'58
direct	9822 May 26 23:13	17° m 15'33	retrograde	9828 Dec 18 21:23	25° m 52'07
evening set	9822 Aug 24 14:45	18° m , 29′22	opposition	9829 Mar 12 11:25	24° Mp 52'42 -11°46'06
			min. Earth dist.	9829 Mar 12 13:47	24° Mp 52'36 47.33168 AU
conjunction	9822 Sep 02 09:25	18°Mp41'17 -12°27'46	direct	9829 Jun 02 07:37	23° m 53'57
minimum elong	9822 Sep 02 09:37	18° Mp 41'18 12°27'52	evening set	9829 Aug 29 09:04	25° Mp 06'01
max. Earth dist.	9822 Sep 02 13:44	18° Mp 41'32 49.73575 AU			
morning rise	9822 Sep 11 05:12	18° m 53'17	conjunction	9829 Sep 08 21:16	25° Mp 20'21 -11°11'59
retrograde	9822 Dec 13 11:13	20° Mg 10'00	minimum elong	9829 Sep 08 21:29	25° Mp 20'22 11°12'03
opposition	9823 Mar 07 07:25	19° Mp 10'43 -12°53'30	max. Earth dist.	9829 Sep 08 18:37	25° Mp 20'12 49.25027 AU
min. Earth dist.	9823 Mar 07 04:06	19° m 10'52 47.75450 AU	morning rise	9829 Sep 19 10:53	25° m 34'47
direct	9823 May 28 06:41	18° m 12'08	retrograde	9829 Dec 20 04:46	26° m 49'42
evening set	9823 Aug 25 13:28	19° m 25'39	opposition	9830 Mar 13 16:24	25° m 50'15 -11°34'06
•			min. Earth dist.	9830 Mar 13 20:18	25° To 50'04 47.24624 AU
conjunction	9823 Sep 03 14:18	19° mg 37'56 -12°17'37	direct	9830 Jun 03 11:47	24° m 51'26
minimum elong	9823 Sep 03 14:31	19° m/37'56 12°17'43	evening set	9830 Aug 30 09:01	26° m 03'17
max. Earth dist.	9823 Sep 03 16:47	19° m/38'04 49.67610 AU		, , , , , , , , , , , , , , , , , , , ,	20 34 00 07
morning rise	9823 Sep 12 16:31	19° m 50'18	conjunction	9830 Sep 10 02:34	26° m) 17'56 -11°00'18
retrograde	9823 Dec 14 18:24	21° Mp 06'43	minimum elong	9830 Sep 10 02:34 9830 Sep 10 02:46	26° m 17'57 11°00'21
opposition	9824 Mar 07 11:57	20° Mp 07'24 -12°42'52	max. Earth dist.	9830 Sep 10 02:40 9830 Sep 09 22:11	26° Mp 17'41 49.16365 AU
		•			•
min. Earth dist.	9824 Mar 07 09:37	20° Mp 07'30 47.69216 AU	morning rise	9830 Sep 20 21:40	26° Mp 32'42
direct	9824 May 28 10:24	19° Mp 08'47	retrograde	9830 Dec 21 12:13	27° m/47'23
evening set	9824 Aug 25 12:13	20° Mp 22'00	opposition	9831 Mar 14 21:19	26° m 47'52 -11°21'53
			min. Earth dist.	9831 Mar 15 01:39	26° Mp 47'40 47.15553 AU
conjunction	9824 Sep 03 19:21	20° Mg 34'38 -12°07'15	direct	9831 Jun 04 14:03	25° m 48'59
minimum elong	9824 Sep 03 19:33	20° Mg 34'39 12°07'21	evening set	9831 Aug 31 09:08	27° Mg 00'38
max. Earth dist.	9824 Sep 03 21:51	20° Mg 34'47 49.61360 AU			
morning rise	9824 Sep 13 03:44	20° m 47'22	conjunction	9831 Sep 11 08:05	27° Mg 15'36 -10°48'25
retrograde	9824 Dec 15 01:00	22° m 03'30	minimum elong	9831 Sep 11 08:17	27° Mg 15'37 10°48'29
opposition	9825 Mar 08 16:36	21°Mp04'10 -12°31'59	max. Earth dist.	9831 Sep 11 02:03	27° Mp 15'15 49.07170 AU
min. Earth dist.	9825 Mar 08 15:16	21° Mp 04'13 47.62686 AU	morning rise	9831 Sep 22 08:42	27° m 30'40
direct	9825 May 29 14:14	20° Mg 05'31	retrograde	9831 Dec 22 16:14	28° m 45'09
evening set	9825 Aug 26 11:12	21° mp 18'28	opposition	9832 Mar 15 02:16	27° Mp 45'32 -11°09'27
			min. Earth dist.	9832 Mar 15 08:47	27° Mp 45'14 47.05976 AU
conjunction	9825 Sep 05 00:15	21° Mg 31'28 -11° 56'38	direct	9832 Jun 04 19:29	26° Mp 46'34
minimum elong	9825 Sep 05 00:29	21°m/31'29 11°56'43	evening set	9832 Aug 31 09:26	27° m 58'01
max. Earth dist.	9825 Sep 05 01:43	21° m/31'33 49.54831 AU	Č	· ·	•
morning rise	9825 Sep 14 14:41	21° m/44'32	conjunction	9832 Sep 11 13:42	28° m/ 13'18 -10°36'20
retrograde	9825 Dec 16 07:31	23° m 00'23	minimum elong	9832 Sep 11 13:55	28° mg 13'19 10°36'22
opposition	9826 Mar 09 21:11	22° m 01'02 -12°20'51	max. Earth dist.	9832 Sep 11 07:22	28° m) 12'56 48.97505 AU
min. Earth dist.	9826 Mar 09 19:48	22° m/01'06 47.55869 AU	morning rise	9832 Sep 22 19:27	28° m) 28'41
direct	9826 May 30 15:27	21° mp 02'22	retrograde	9832 Dec 22 18:32	29° Mp 42'57
evening set	9826 Aug 27 10:15	22° Mp 15'06	opposition	9833 Mar 16 07:09	28° mp 43'15 -10°56'48
evening set	7020 Aug 27 10.13	22 m/ 13 00	min. Earth dist.	9833 Mar 16 13:54	28° m) 42'56 46.95949 AU
conjunction	9826 Sep 06 05:17	22° m/28'26 -11°45'48		9833 Jun 06 02:54	27° Mp 44'11
·		*	direct		•
minimum elong	9826 Sep 06 05:29	22° Mp 28'27 11°45'53	evening set	9833 Sep 01 09:47	28° m 55'28
max. Earth dist.	9826 Sep 06 05:35	22° Mp 28'27 49.47988 AU		0022 0 12 10 02	200 m-11102 10024102
morning rise	9826 Sep 16 01:47	22° Mp 41'51	conjunction	9833 Sep 12 19:03	29° mp 11'03 -10°24'02
retrograde	9826 Dec 17 12:17	23° m 57'27	minimum elong	9833 Sep 12 19:15	29° m 11'04 10°24'04
opposition	9827 Mar 11 01:58	22° m 58'05 -12°09'30	max. Earth dist.	9833 Sep 12 10:37	29° m 10'34 48.87417 AU
min. Earth dist.	9827 Mar 11 02:29	22° Mp 58'03 47.48723 AU	morning rise	9833 Sep 24 06:06	29° m 26'45
direct	9827 May 31 18:51	21° m 59'24		9833 Oct 20 09:01	0∘ ত
evening set	9827 Aug 28 09:35	23° Mp 11'54	retrograde	9833 Dec 24 01:04	0° ჲ 40'50
				9834 Feb 28 11:05	30°R, Mp
conjunction	9827 Sep 07 10:30	23° m/25'34 -11°34'44	opposition	9834 Mar 17 12:09	29° Mp 41'03 -10° 43'56
minimum elong	9827 Sep 07 10:43	23° mg 25'35 11°34'48	min. Earth dist.	9834 Mar 17 20:13	29° Mp 40'40 46.85541 AU
max. Earth dist.	9827 Sep 07 10:37	23°M 25'34 49.40796 AU	direct	9834 Jun 07 07:46	28° m 41'53
morning rise	9827 Sep 17 12:44	23° m 39'19	evening set	9834 Sep 02 10:16	29° m 53'00
retrograde	9827 Dec 18 14:54	24° m 54'42		9834 Sep 07 13:24	0∘ 亚
opposition	9828 Mar 11 06:40	23° m 55'18 -11°57'54			
min. Earth dist.	9828 Mar 11 07:25	23° m 55'16 47.41177 AU	conjunction	9834 Sep 14 00:43	0° ≏ 08'54 -10°11'30
direct	9828 Jun 01 02:24	22° m 56'36	minimum elong	9834 Sep 14 00:56	0° ≏ 08'54 10°11'31
evening set	9828 Aug 28 09:17	24° m 08'53	max. Earth dist.	9834 Sep 13 16:13	0° ≏ 08'24 48.76967 AU
Č		•	morning rise	9834 Sep 25 16:45	0° £ 24'54
conjunction	9828 Sep 07 15:46	24° m/22'52 -11°23'27	retrograde	9834 Dec 25 07:14	1° ≏ 38'49
3	· r		<i>5</i>		-

opposition	9835 Mar 18 17:12	0° ჲ 38'57	10030140	conjunction	9841 Sep 20 18:27	7° ≙ 00'18 -8°37'	10
min. Earth dist.	9835 Mar 19 02:11		46.74790 AU	minimum elong	9841 Sep 20 18:38	7° ⊆ 00'18 -8'37' 7° ⊆ 00'18 8°37'	
mm. Earm dist.			40.74790 AU	C		6° £ 59'21 47.94	
11	9835 Apr 25 02:55	30°₹M)		max. Earth dist.	9841 Sep 20 02:16		839 AU
direct	9835 Jun 08 13:00	29° m 39'42		morning rise	9841 Oct 03 19:15	7° £ 18'24	
	9835 Jul 22 03:47	0° ⊽		retrograde	9842 Jan 01 06:56	8° £ 31'40	1.2
evening set	9835 Sep 03 11:01	0° ჲ 50'40		opposition	9842 Mar 25 06:51	7° £ 31'21 -8°52'	
				min. Earth dist.	9842 Mar 25 22:51	7° £ 30'35 45.90	408 AU
conjunction	9835 Sep 15 06:19	1° Ω 06'52		direct	9842 Jun 14 19:14	6° £ 31'34	
minimum elong	9835 Sep 15 06:31	1° Ω 06'53		evening set	9842 Sep 08 21:49	7° £ 42'05	
max. Earth dist.	9835 Sep 14 20:40		48.66210 AU	max. Earth dist.	9842 Sep 21 08:18	7° £ 59'22 47.81	414 AU
morning rise	9835 Sep 27 03:21	1° ≏ 23'11				_	
retrograde	9835 Dec 26 14:43	2° ≏ 36'56		conjunction	9842 Sep 22 01:03	8° ≏ 00'20 -8°22'	
opposition	9836 Mar 18 22:16	1° ≏ 37'00	-10°17'27	minimum elong	9842 Sep 22 01:14	8° ≏ 00'21 8°22'	57
min. Earth dist.	9836 Mar 19 07:22	1° ≏ 36'34	46.63744 AU	morning rise	9842 Oct 05 05:59	8° ≏ 18'43	
direct	9836 Jun 08 15:13	0° ჲ 37'40		retrograde	9843 Jan 02 10:17	9° ≏ 31'56	
evening set	9836 Sep 03 11:55	1° ≏ 48'31		opposition	9843 Mar 26 12:34	8° ≙ 31'30 -8°37'	12
				min. Earth dist.	9843 Mar 27 04:57	8° 2 30'43 45.76.	585 AU
conjunction	9836 Sep 15 12:05	2° ഫ 05'01	-9°45'45	direct	9843 Jun 16 03:30	7° ≏ 31'35	
minimum elong	9836 Sep 15 12:17	2° ഫ 05'02	9°45'45	evening set	9843 Sep 10 00:21	8° - 42′05	
max. Earth dist.	9836 Sep 15 01:13	2° ഫ 04'24	48.55144 AU				
morning rise	9836 Sep 27 14:03	2° £ 21'38		conjunction	9843 Sep 23 07:36	9° ≙ 00'37 -8°08'	24
retrograde	9836 Dec 26 20:38	3° ≏ 35'16		minimum elong	9843 Sep 23 07:46	9° ჲ 00'38 8°08'	22
opposition	9837 Mar 20 03:26	2° £ 35'15	-10°03'51	max. Earth dist.	9843 Sep 22 12:21	8° £ 59'30 47.67	474 AU
min. Earth dist.	9837 Mar 20 14:15	2° ₽ 34'45	46.52403 AU	morning rise	9843 Oct 06 16:51	9° ₽ 19'17	
direct	9837 Jun 09 19:09	1° ≏ 35'51		retrograde	9844 Jan 03 16:42	10° - 32′27	
evening set	9837 Sep 04 12:58	2° ≏ 46'37		opposition	9844 Mar 26 18:29	9° £ 31'53 -8°21'	58
8				min. Earth dist.	9844 Mar 27 12:37	9° £ 31'01 45.62	
conjunction	9837 Sep 16 17:58	3° ჲ 03'25	-9°32'31	direct	9844 Jun 16 10:17	8° £ 31'50	2,5110
minimum elong	9837 Sep 16 18:09	3° £ 03'26		evening set	9844 Sep 10 02:58	9° £ 42'17	
max. Earth dist.	9837 Sep 16 07:05		48.43803 AU	evening sec	7011 Sep 10 02:30) — 1217	
morning rise	9837 Sep 29 00:33	3° <u>₽20'20</u>	40.43003 710	conjunction	9844 Sep 23 14:23	10° £ 01'06 -7°53'	38
retrograde	9837 Dec 28 00:15	4° £ 33'51		minimum elong	9844 Sep 23 14:34	10° ⊆ 01'06 7°53'	
opposition	9838 Mar 21 08:41	3° £ 33'48	0°40'50	max. Earth dist.	9844 Sep 22 18:48	9° £ 59'57 47.53	
min. Earth dist.	9838 Mar 21 19:18		46.40772 AU		9844 Oct 07 03:32	9 ⊆ 3937 47.339 10° ⊆ 20'02	033 AU
	9838 Jun 11 02:14		40.40772 AU	morning rise			
direct		2° Ω 34'19		retrograde	9845 Jan 03 22:47	11° £ 33'10	20
evening set	9838 Sep 05 14:10	3° £ 45'01		opposition	9845 Mar 28 00:21	10° ♀ 32'28 -8°06'	
	0000 0 17 00 11	40.0.000	0010102	min. Earth dist.	9845 Mar 28 19:30	10° £ 31'32 45.47	SILAU
conjunction	9838 Sep 17 23:41	4° Ω 02'06		direct	9845 Jun 17 17:20	9° £ 32'15	
minimum elong	9838 Sep 17 23:53	4° Ω 02'07		evening set	9845 Sep 11 05:52	10° £ 42'41	
max. Earth dist.	9838 Sep 17 10:59		48.32159 AU				
morning rise	9838 Sep 30 11:08	4° Ω 19'19		conjunction	9845 Sep 24 21:06	11° ≙ 01'46 -7°38'	
retrograde	9838 Dec 29 07:01	5° Ω 32'46		minimum elong	9845 Sep 24 21:17	11° ≙ 01'46 7°38'	
opposition	9839 Mar 22 14:08	4° ≏ 32'39		max. Earth dist.	9845 Sep 24 00:07	11° ♀ 00'32 47.38	238 AU
min. Earth dist.	9839 Mar 23 02:08		46.28827 AU	morning rise	9845 Oct 08 14:14	11° ≏ 20'59	
direct	9839 Jun 12 07:46	3° ≏ 33'07		retrograde	9846 Jan 05 08:16	12° ≏ 34'04	
evening set	9839 Sep 06 15:39	4° £ 43'45		opposition	9846 Mar 29 06:19	11° ≙ 33'13 -7°50'	
				min. Earth dist.	9846 Mar 30 01:52	11° ≙ 32'17 45.32	389 AU
conjunction	9839 Sep 19 05:53	5° ഫ 01'08		direct	9846 Jun 18 20:32	10° ≏ 32'51	
minimum elong	9839 Sep 19 06:04	5° ഫ 01'09	9°05'21	evening set	9846 Sep 12 08:46	11° ≏ 43′16	
max. Earth dist.	9839 Sep 18 17:00	5° ≙ 00'24	48.20161 AU	max. Earth dist.	9846 Sep 25 05:39	12° ≙ 01'19 47.23	065 AU
morning rise	9839 Oct 01 21:47	5° ≏ 18'39					
retrograde	9839 Dec 30 14:59	6° ₽ 32'03		conjunction	9846 Sep 26 03:50	12° ♀ 02'37 -7°23'	22
opposition	9840 Mar 22 19:30	5° ₽ 31'52	-9°21'34	minimum elong	9846 Sep 26 04:00	12° ♀ 02'38 7°23'	20
min. Earth dist.	9840 Mar 23 08:46	5° ≏ 31'15	46.16491 AU	morning rise	9846 Oct 10 00:50	12° ≏ 22'06	
direct	9840 Jun 12 12:19	4° £ 32'16		retrograde	9847 Jan 06 17:13	13° ≏ 35′10	
evening set	9840 Sep 06 17:34	5° - 42'51		opposition	9847 Mar 30 12:34	12° ♀ 34'10 -7°34'	48
				min. Earth dist.	9847 Mar 31 09:48	12° 2 33'09 45.16	942 AU
conjunction	9840 Sep 19 12:08	6° ჲ 00'33	-8°51'27	direct	9847 Jun 20 00:27	11° ≏ 33'39	
minimum elong	9840 Sep 19 12:20	6° Ω 00'33		evening set	9847 Sep 13 12:02	12° £ 44'05	
max. Earth dist.	9840 Sep 18 21:36		48.07751 AU	Č	1		
morning rise	9840 Oct 02 08:33	6° Ω 18'21		conjunction	9847 Sep 27 10:54	13° £ 03'42 -7°07'	53
retrograde	9840 Dec 31 01:00	7° £ 31'41		minimum elong	9847 Sep 27 11:04	13° ⊆ 03'43 7°07'	
opposition	9841 Mar 24 01:01	6° £ 31'27	-9°07'00	max. Earth dist.	9847 Sep 26 12:40	13° ⊆ 02'24 47.07€	
min. Earth dist.	9841 Mar 24 14:50		46.03709 AU	morning rise	9847 Oct 11 11:29	13° ⊆ 0224 47.074	
direct	9841 Jun 13 13:54	5° £ 31'46	.0.05/07/10	retrograde	9848 Jan 07 22:25	13 — 23 27 14° — 36'30	
evening set	9841 Sep 07 19:32	6° £ 42'19		opposition	9848 Mar 30 18:36	13° 2 35'22 -7°18'	34
croming sec	7011 Sep 07 17.32	U — -72 19		min. Earth dist.	9848 Mar 31 15:34	13° 2 33′22 -7 18 13° 2 34′21 45.01	
				mm. Lattii Uist.	70-TO 14101 J1 1J.J4	15 -5721 45.01.	221 AU

1	0040 1 20 07 20	120 0 2 4140	. 1	0055 1 15 04 22	210 0 56/50
direct	9848 Jun 20 07:28	12° △ 34'40	retrograde	9855 Jan 15 04:33	21° ≙ 56′50
evening set	9848 Sep 13 15:39	13° ♀ 45'09	opposition	9855 Apr 07 18:35	20° £ 54'44 -5°17'45
			min. Earth dist.	9855 Apr 08 22:40	20° £ 53'21 43.82859 AU
conjunction	9848 Sep 27 17:57	14° £ 05'02 -6°52'10	direct	9855 Jun 28 06:57	19° ≙ 52'59
minimum elong	9848 Sep 27 18:06	14° £ 05'03 6°52'06	evening set	9855 Sep 21 00:48	21° ≏ 04'20
max. Earth dist.	9848 Sep 26 17:52	14° £ 03'36 46.91872 AU	max. Earth dist.	9855 Oct 04 17:36	21° ≏ 24'05 45.72996 AU
morning rise	9848 Oct 11 22:17	14° £ 25′03			
retrograde	9849 Jan 08 04:28	15° ≏ 38′08	conjunction	9855 Oct 06 01:03	21° £ 26'00 -4°55'16
opposition	9849 Apr 01 01:00	14° - 36'51 -7°02'05	minimum elong	9855 Oct 06 01:10	21° £ 26'00 4°55'10
min. Earth dist.	9849 Apr 01 23:23	14° 2 35'45 44.85256 AU	morning rise	9855 Oct 21 03:09	21° £ 47'48
direct	9849 Jun 21 14:42	13° 2 36′00	retrograde	9856 Jan 16 15:12	23° ≙ 01'38
			•		
evening set	9849 Sep 14 19:14	14° △ 46'32	opposition	9856 Apr 08 01:58	21° ⊆ 59'23 -4°59'29
max. Earth dist.	9849 Sep 28 01:16	15° ≙ 05'16 46.75895 AU	min. Earth dist.	9856 Apr 09 07:02	21° ≏ 57'56 43.64303 AU
			direct	9856 Jun 28 12:15	20° £ 57'25
conjunction	9849 Sep 29 01:10	15° £ 06'41 -6°36'11	evening set	9856 Sep 21 06:50	22° £ 08'57
minimum elong	9849 Sep 29 01:20	15° ≏ 06'41 6°36'07	max. Earth dist.	9856 Oct 05 00:58	22° £ 28'52 45.54315 AU
morning rise	9849 Oct 13 08:49	15° ≏ 26'58			
retrograde	9850 Jan 09 10:37	16° ≙ 40'06	conjunction	9856 Oct 06 09:45	22° £ 30'51 -4°37'38
opposition	9850 Apr 02 07:33	15° £ 38'40 -6°45'20	minimum elong	9856 Oct 06 09:52	22° ♀ 30'52 4°37'30
min. Earth dist.	9850 Apr 03 06:25	15° ≏ 37'33 44.69040 AU	morning rise	9856 Oct 21 14:25	22° £ 52'54
direct	9850 Jun 22 22:38	14° 2 37'41	retrograde	9857 Jan 17 02:13	24° 2 06'54
		14 ⊆ 37 41 15° ⊆ 48'18	•		
evening set	9850 Sep 15 23:20		opposition	9857 Apr 09 09:44	23° △ 04'27 -4°40'58
max. Earth dist.	9850 Sep 29 07:19	16° £ 07'12 46.59681 AU	min. Earth dist.	9857 Apr 10 16:33	23° £ 02'54 43.45335 AU
			direct	9857 Jun 29 17:38	22° ჲ 02'17
conjunction	9850 Sep 30 08:32	16° ≙ 08'43 -6°19'58	evening set	9857 Sep 22 13:00	23° ≙ 14'01
minimum elong	9850 Sep 30 08:41	16° ≙ 08'43 6°19'53	max. Earth dist.	9857 Oct 06 09:18	23° △ 34'08 45.35264 AU
morning rise	9850 Oct 14 19:40	16° £ 29'15			
retrograde	9851 Jan 10 21:03	17° - 42′28	conjunction	9857 Oct 07 18:27	23° △ 36'09 -4°19'45
opposition	9851 Apr 03 14:06	16° £ 40'55 -6°28'19	minimum elong	9857 Oct 07 18:34	23° △ 36'10 4°19'37
min. Earth dist.	9851 Apr 04 13:19	16° ♀ 39'47 44.52576 AU	morning rise	9857 Oct 23 01:31	23° £ 58′26
direct	9851 Jun 24 02:15	15° ♀ 39'47	retrograde	9858 Jan 18 11:48	25° ♀ 12'36
evening set	9851 Sep 17 03:43	16° ≙ 50'31	opposition	9858 Apr 10 17:31	24° 2 09'57 -4°22'11
evening set	9651 Sep 17 05.45	10 = 30 31	min. Earth dist.	•	24° £ 09'37 -4 22 11 24° £ 08'25 43.26028 AU
	0051 0 + 01 16 12	170 0 11111 (0002)20		9858 Apr 12 00:12	
conjunction	9851 Oct 01 16:13	17° △ 11'11 -6°03'30	direct	9858 Jul 01 00:40	23° △ 07'35
minimum elong	9851 Oct 01 16:22	17° £ 11'12 6°03'24	evening set	9858 Sep 23 19:43	24° £ 19'32
max. Earth dist.	9851 Sep 30 13:54	17° ♀ 09'37 46.43167 AU	max. Earth dist.	9858 Oct 07 16:20	24° £ 39'45 45.15888 AU
morning rise	9851 Oct 16 06:36	17° ≙ 31'59			
retrograde	9852 Jan 12 06:17	18° ≏ 45'18	conjunction	9858 Oct 09 03:22	24° £ 41'54 -4°01'37
opposition	9852 Apr 03 21:00	17° - 43'38 -6°11'03	minimum elong	9858 Oct 09 03:29	24° - 41'55 4°01'28
min. Earth dist.	9852 Apr 04 22:05	17° £ 42'24 44.35783 AU	morning rise	9858 Oct 24 12:54	25° ≏ 04'25
direct	9852 Jun 24 07:11	16° - 42′22	retrograde	9859 Jan 19 19:53	26° ♀ 18'47
evening set	9852 Sep 17 08:29	17° ♀ 53'14	opposition	9859 Apr 12 01:32	25° £ 15'56 -4°03'09
max. Earth dist.	9852 Sep 30 21:24	18° ≙ 12'33 46.26300 AU	min. Earth dist.	9859 Apr 13 09:56	25° £ 14'18 43.06438 AU
max. Earth dist.	7032 БСР 30 21.24	10 =1233 40.20300 110	direct	9859 Jul 02 09:24	24° ≙ 13'21
conjunction	9852 Oct 02 00:09	18° £ 14'09 -5°46'47	evening set	9859 Sep 25 02:37	25° £ 25'32
·			-	=	
minimum elong	9852 Oct 02 00:18	18° △ 14'10 5°46'41	max. Earth dist.	9859 Oct 09 01:45	25° △ 45'59 44.96244 AU
morning rise	9852 Oct 16 17:33	18° △ 35'13			
retrograde	9853 Jan 12 13:32	19° ≏ 48'37	conjunction	9859 Oct 10 12:41	25° △ 48'08 -3°43'14
opposition	9853 Apr 05 03:51	18° ♀ 46'50 -5°53'32	minimum elong	9859 Oct 10 12:46	25° £ 48'09 3°43'06
min. Earth dist.	9853 Apr 06 05:10	18° ≙ 45'35 44.18600 AU	morning rise	9859 Oct 26 00:13	26° ≙ 10'53
direct	9853 Jun 25 14:51	17° £ 45′25	retrograde	9860 Jan 21 02:05	27° £ 25'27
evening set	9853 Sep 18 13:41	18° ≏ 56'27	opposition	9860 Apr 12 09:45	26° £ 22'25 -3°43'50
max. Earth dist.	9853 Oct 02 03:03	19° ≙ 15'52 46.09001 AU	min. Earth dist.	9860 Apr 13 18:23	26° ≏ 20'46 42.86597 AU
			direct	9860 Jul 02 20:18	25° ♀ 19'37
conjunction	9853 Oct 03 08:13	19° ≏ 17'38 -5°29'51	evening set	9860 Sep 25 10:02	26° ჲ 32'03
minimum elong	9853 Oct 03 08:13	19° £ 17'38 5°29'45	max. Earth dist.	9860 Oct 09 09:32	26° £ 52'38 44.76373 AU
			max. Lattii dist.	7600 001 07 07.32	20 — 32 30 44.70373 AC
morning rise	9853 Oct 18 04:44	19° ♀ 38'56		00/0 0 + 10 22 00	260 0 54152 202 425
retrograde	9854 Jan 13 21:32	20° ♀ 52'29	conjunction	9860 Oct 10 22:00	26° £ 54'53 -3°24'37
opposition	9854 Apr 06 11:09	19° £ 50'33 -5°35'46	minimum elong	9860 Oct 10 22:05	26° ♀ 54'54 3°24'27
min. Earth dist.	9854 Apr 07 14:23	19° ≏ 49'12 44.00972 AU	morning rise	9860 Oct 26 11:41	27° £ 17'51
direct	9854 Jun 26 22:17	18° ♀ 48'58	retrograde	9861 Jan 21 13:05	28° ♀ 32'41
evening set	9854 Sep 19 18:57	20° ♀ 00'09	opposition	9861 Apr 13 18:06	27° £ 29'27 -3°24'15
max. Earth dist.	9854 Oct 03 11:01	20° ♀ 19'48 45.91232 AU	min. Earth dist.	9861 Apr 15 03:16	27° £ 27'46 42.66555 AU
			direct	9861 Jul 04 02:38	26° £ 26′26
conjunction	9854 Oct 04 16:33	20° £ 21'35 -5°12'40	evening set	9861 Sep 26 17:44	27° £ 39'10
minimum elong	9854 Oct 04 16:40	20° ♀ 21'35 5°12'33	max. Earth dist.	9861 Oct 10 18:37	27° £ 59'55 44.56291 AU
morning rise	9854 Oct 19 15:46	20° △ 43'09			

:	00(1.0-4.12.07.40	200 0 02112 20051	14	00(7 N 04 22-00	50 m 25105	
conjunction	9861 Oct 12 07:40	28° £ 02'13 -3°05'	· ·	9867 Nov 04 23:08	5°M25'05	
minimum elong	9861 Oct 12 07:45	28° £ 02'14 3°05'	C	9868 Jan 30 21:28	6° M 42'18	
morning rise	9861 Oct 27 23:09	28° £ 25′24	opposition	9868 Apr 21 12:19	5° ™ 37'36	-0°59'47
retrograde	9862 Jan 23 00:22	29° ≏ 40'31	min. Earth dist.	9868 Apr 23 04:04	5° ™ 35'32	41.18519 AU
opposition	9862 Apr 15 02:53	28° ♀ 37'06 -3°04'	24 direct	9868 Jul 11 13:36	4°M32'56	
min. Earth dist.	9862 Apr 16 13:15	28° ♀ 35'21 42.463	813 AU evening set	9868 Oct 04 12:59	5° M 48′23	
direct	9862 Jul 05 09:02	27° ₽ 33'52	max. Earth dist.	9868 Oct 18 14:05	6° ™ 09'54	43.07380 AU
evening set	9862 Sep 28 01:44	28° £ 46'55				
max. Earth dist.	9862 Oct 12 04:10	29° £ 07'51 44.360	22 AU conjunction	9868 Oct 20 11:37	6°M12'50	-0°46'48
max. Earth dist.	7002 000 12 01.10	2) =0/31 11.50	minimum elong	9868 Oct 20 11:38	6°M12'50	
aaniumatian	9862 Oct 13 17:30	29° ≙ 10'11 -2°46'	· ·	9868 Nov 05 11:32	6°M37'24	0 40 33
conjunction			· ·			
minimum elong	9862 Oct 13 17:34	29° № 10'12 2°46'	0	9869 Jan 31 10:17	7°M55'02	
morning rise	9862 Oct 29 10:43	29° ≏ 33'35	opposition	9869 Apr 22 22:54	6° ™ 50'04	
	9862 Nov 17 10:05	0° M	min. Earth dist.	9869 Apr 24 16:41	6° ™ 47'52	40.95870 AU
retrograde	9863 Jan 24 12:30	0° ™ 49'00	direct	9869 Jul 12 23:21	5° ™ 45'05	
	9863 Apr 04 10:52	30° ₹ Ω	evening set	9869 Oct 06 00:25	7° ጤ 01'00	
opposition	9863 Apr 16 11:44	29° ≏ 45'23 -2°44'	max. Earth dist.	9869 Oct 20 02:09	7°M22'40	42.84592 AU
min. Earth dist.	9863 Apr 17 21:58	29° £ 43'39 42.258	865 AU			
direct	9863 Jul 06 16:28	28° - 41′57	conjunction	9869 Oct 21 23:44	7°M25'38	-0°26'00
evening set	9863 Sep 29 10:28	29° ≏ 55'22	minimum elong	9869 Oct 21 23:44	7°M25'38	0°25'47
e vennig set	9863 Oct 02 14:05	0°M	morning rise	9869 Nov 06 24:00	7°M50'22	0 20 .,
max. Earth dist.	9863 Oct 13 12:27	0°M16'23 44.15		9870 Feb 01 21:25	9°M08'25	
max. Earm dist.	9803 Oct 13 12.27	0 11610 25 44.15.	_			001711
	00600 . 15 00 10	00 M 10151 2025	opposition	9870 Apr 24 09:40	8°M.03'10	
conjunction	9863 Oct 15 03:42	0°M18'51 -2°27'		9870 Apr 26 03:30		40.72920 AU
minimum elong	9863 Oct 15 03:46	0°M18'51 2°27'		9870 Jul 14 12:11	6°M57'53	
morning rise	9863 Oct 30 22:34	0° ™ 42′28	evening set	9870 Oct 07 12:25	8° M 14'17	
retrograde	9864 Jan 26 00:41	1° M .58'11	max. Earth dist.	9870 Oct 21 12:21	8°M35'59	42.61524 AU
opposition	9864 Apr 16 20:52	0°M54'24 -2°23'	54			
min. Earth dist.	9864 Apr 18 09:00	0°M52'33 42.05	55 AU conjunction	9870 Oct 23 11:55	8°M39'05	-0°05'02
	9864 Jun 08 20:50	30° ₽ Ω	minimum elong	9870 Oct 23 11:55	8° ™ 39'05	0°04'48
direct	9864 Jul 07 00:38	29° ♀ 50'45	behind sun begin	9870 Oct 23 05:35	8°MJ38'42	
	9864 Aug 04 01:49	0°M	behind sun end	9870 Oct 23 18:15	8°M39'28	
evening set	9864 Sep 29 19:33	1°M04'32	morning rise	9870 Nov 08 12:38	9° ™ 03'59	
max. Earth dist.	9864 Oct 13 23:06	1°M25'46 43.940	•	9871 Jan 17 08:13	10°M18'59	
max. Earth dist.	7004 Oct 13 23.00	1 11025 40 45.54	retrograde	9871 Feb 03 10:03	10°M22'30	
aaniumatian	9864 Oct 15 14:22	1°M28'15 -2°07'	ū	9871 Apr 25 20:47	9°M16'58	0°06'00
conjunction			**	*		
minimum elong	9864 Oct 15 14:26	1°M28'15 2°07'		9871 Apr 27 15:52		40.49730 AU
morning rise	9864 Oct 31 10:26	1°M52'04	direct	9871 Jul 15 23:06	8° ™ 11'22	
retrograde	9865 Jan 26 09:41	3°M08'08	evening set	9871 Oct 09 00:56	9° ™ 28'18	
opposition	9865 Apr 18 06:17	2°M04'09 -2°03'		9871 Oct 23 00:54	9° ™ 50'07	42.38219 AU
min. Earth dist.	9865 Apr 19 18:47	2°M02'16 41.84	06 AU			
direct	9865 Jul 08 11:44	1° ™ 00'17	conjunction	9871 Oct 25 00:42	9° ™ 53'15	0°16'20
evening set	9865 Oct 01 05:08	2°M14'28	minimum elong	9871 Oct 25 00:41	9° ™ 53'15	0°16'35
max. Earth dist.	9865 Oct 15 07:43	2°M35'44 43.734	193 AU morning rise	9871 Nov 10 01:18	10° ™ 18'19	
			retrograde	9872 Feb 04 21:15	11° M 37'19	
conjunction	9865 Oct 17 01:02	2°M38'22 -1°47'	_	9872 Apr 26 08:07	10°M31'31	0°28'27
minimum elong	9865 Oct 17 01:05	2°M38'22 1°47'	* *	9872 Apr 28 03:56		40.26337 AU
morning rise	9865 Nov 01 22:27	3°M02'23	direct	9872 Jul 16 10:42	9°M25'36	
retrograde	9866 Jan 27 20:11	4°M18'50	evening set	9872 Oct 09 14:03	10°M43'06	
opposition	9866 Apr 19 16:04	3°M14'38 -1°42'	•	9872 Oct 09 14:03 9872 Oct 23 13:03		42.14750 AU
	*			98/2 Oct 23 13.03	11 11604 39	42.14/30 AU
min. Earth dist.	9866 Apr 21 05:56	3°M12'40 41.620		0050 0 . 05 10 00	1107 00110	0007140
direct	9866 Jul 09 20:59	2°M10'31	conjunction	9872 Oct 25 13:38	11°M08'12	
evening set	9866 Oct 02 15:15	3°M25'06	minimum elong	9872 Oct 25 13:37	11°M08'12	0°38'02
max. Earth dist.	9866 Oct 16 17:57	3°M46'29 43.518	371 AU morning rise	9872 Nov 10 14:10	11°M33'24	
			retrograde	9873 Feb 05 12:03	12°M52'57	
conjunction	9866 Oct 18 12:21	3°M49'11 -1°27'	41 opposition	9873 Apr 27 19:49	11°M46'52	0°51'08
minimum elong	9866 Oct 18 12:23	3°M49'12 1°27'	min. Earth dist.	9873 Apr 29 15:40	11° M 44'31	40.02811 AU
morning rise	9866 Nov 03 10:40	4°M13'24	direct	9873 Jul 17 19:57	10°M40'38	
retrograde	9867 Jan 29 07:31	5°M30'14	evening set	9873 Oct 11 03:33	11° M 58'46	
opposition	9867 Apr 21 02:06	4°M25'47 -1°21'	_	9873 Oct 25 00:59		41.91136 AU
min. Earth dist.	9867 Apr 22 17:32	4°M23'44 41.40'				
direct	9867 Jul 11 06:02	3°M21'24	conjunction	9873 Oct 27 02:48	12°M24'00	0°59'31
	9867 Oct 04 01:53	4°M36'25	minimum elong		12 11624 00 12°M24'00	0°59'47
evening set			· ·	9873 Oct 27 02:46		U 3741
max. Earth dist.	9867 Oct 18 04:21	4°M57'54 43.298	· ·	9873 Nov 12 02:55	12°M49'20	
			retrograde	9874 Feb 07 04:15	14° M 09'29	
conjunction	0000	#0M 00000			1 2 0 100 0	101 4:0 1
	9867 Oct 19 23:53	5°ML00'41 -1°07'	**	9874 Apr 29 08:02		1°14'04
minimum elong	9867 Oct 19 23:53 9867 Oct 19 23:55	5°M00'41 -1°07' 5°M00'41 1°07'	**	9874 Apr 29 08:02 9874 May 01 05:17		1°14'04 39.79165 AU

direct	9874 Jul 19 05:14	11° M .56'36	max. Earth dist.	9880 Nov 03 03:15	21°ML40'07 40.20552 AU
evening set	9874 Oct 12 17:45	13°M.15'23	max. Lartii dist.	7000 1107 03 03.13	21 IIC+0 07 +0.20332 AO
max. Earth dist.	9874 Oct 26 15:01	13°M237'27 41.67416 AU	conjunction	9880 Nov 05 12:13	21°ML44'06 3°37'18
man. Barur dibu	3071 OCC 20 10.01	15 1165 / 27 11.07 110110	minimum elong	9880 Nov 05 12:07	21°M44'05 3°37'35
conjunction	9874 Oct 28 16:34	13°ML40'45 1°21'27	morning rise	9880 Nov 21 02:39	22°M10'03
minimum elong	9874 Oct 28 16:31	13°ML40'45 1°21'42	retrograde	9881 Feb 16 21:23	23°M35'19
morning rise	9874 Nov 13 16:00	14°ML06'13	opposition	9881 May 08 07:36	22°M26'54 4°00'58
C	9874 Dec 23 02:43	15° M .	min. Earth dist.	9881 May 10 10:57	22°M24'03 38.08171 AU
retrograde	9875 Feb 08 18:59	15°M26'59	direct	9881 Jul 27 22:19	21°M18'03
•	9875 Mar 29 00:59	15°RM	evening set	9881 Oct 22 17:10	22°M42'30
opposition	9875 Apr 30 20:21	14°M20'22 1°37'14	max. Earth dist.	9881 Nov 04 20:13	23°MJ04'26 39.95162 AU
min. Earth dist.	9875 May 02 17:13	14°M17'57 39.55409 AU			
direct	9875 Jul 20 17:35	13°M13'33	conjunction	9881 Nov 07 05:00	23°ML08'26 4°00'35
evening set	9875 Oct 14 08:46	14°MJ33'03	minimum elong	9881 Nov 07 04:52	23°MJ08'26 4°00'53
max. Earth dist.	9875 Oct 28 03:17	14°ML55'04 41.43558 AU	morning rise	9881 Nov 22 16:47	23°M34'25
			retrograde	9882 Feb 18 13:00	25°M00'31
conjunction	9875 Oct 30 06:40	14°ML58'32 1°43'36	opposition	9882 May 09 22:56	23°M51'45 4°25'39
minimum elong	9875 Oct 30 06:37	14°ML58'32 1°43'52	min. Earth dist.	9882 May 12 02:14	23°M48'52 37.82790 AU
	9875 Oct 31 04:21	15°M	direct	9882 Jul 29 15:03	22°M42'30
morning rise	9875 Nov 15 05:23	15°M24'07	evening set	9882 Oct 24 13:15	24°M07'53
retrograde	9876 Feb 10 10:00	16°M45'33	max. Earth dist.	9882 Nov 06 11:49	24°M29'41 39.69618 AU
opposition	9876 May 01 09:13	15°M38'41 2°00'39			
min. Earth dist.	9876 May 03 07:39	15°M36'10 39.31508 AU	conjunction	9882 Nov 08 22:12	24°M33'50 4°24'01
	9876 Jun 02 00:08	15°RM	minimum elong	9882 Nov 08 22:04	24°M33'49 4°24'19
direct	9876 Jul 21 05:54	14°M31'34	morning rise	9882 Nov 24 07:22	24°M59'49
	9876 Sep 07 15:50	15° M ₊	retrograde	9883 Feb 20 06:11	26°M26'48
evening set	9876 Oct 15 00:18	15°M51'49	opposition	9883 May 11 14:34	25°M17'40 4°50'29
max. Earth dist.	9876 Oct 28 17:54	16°M13'56 41.19506 AU	min. Earth dist.	9883 May 13 18:51	25°M14'43 37.57307 AU
			direct	9883 Jul 31 07:01	24°M07'59
conjunction	9876 Oct 30 21:17	16°M17'26 2°05'57	evening set	9883 Oct 26 10:02	25°M34'22
minimum elong	9876 Oct 30 21:14	16°M17'25 2°06'13	max. Earth dist.	9883 Nov 08 05:26	25°M56'07 39.43972 AU
morning rise	9876 Nov 15 18:42	16°ML43'07			
retrograde	9877 Feb 10 22:40	18°M05'15	conjunction	9883 Nov 10 16:05	26°M00'19 4°47'36
opposition	9877 May 02 22:27	16°M58'07 2°24'17	minimum elong	9883 Nov 10 15:56	26°M00'18 4°47'55
min. Earth dist.	9877 May 04 21:29	16°M55'33 39.07387 AU	U	9883 Nov 25 21:58	26°M26'17
direct	9877 Jul 22 20:27	15°M50'43	retrograde	9884 Feb 21 22:25	27°M54'12
evening set	9877 Oct 16 16:43	17° M .11'44	opposition	9884 May 12 06:52	26°M44'42 5°15'29
max. Earth dist.	9877 Oct 30 07:16	17°M33'49 40.95215 AU		9884 May 14 11:54	26°M41'40 37.31762 AU
			direct	9884 Jul 31 22:49	25°M34'36
conjunction	9877 Nov 01 12:16	17°M37'27 2°28'30	evening set	9884 Oct 27 07:36	27°M.02'00
minimum elong	9877 Nov 01 12:12	17° M .37'26 2°28'47	max. Earth dist.	9884 Nov 08 23:08	27°M23'39 39.18304 AU
morning rise	9877 Nov 17 08:27	18° M .03'14			
retrograde	9878 Feb 12 15:09	19° M .26'07	conjunction	9884 Nov 11 10:11	27°M27'55 5°11'18
opposition	9878 May 04 12:04	18°M,18'41 2°48'08	minimum elong	9884 Nov 11 10:02	27°M27'54 5°11'37
min. Earth dist.	9878 May 06 11:50	18°M.16'04 38.83014 AU	Č	9884 Nov 26 12:40	27°M.53'51
direct	9878 Jul 24 07:43	17°M10'57	retrograde	9885 Feb 22 17:30	29°M22'46
evening set	9878 Oct 18 09:43	18°M.32'47	opposition	9885 May 13 23:31	28°M12'53 5°40'37
max. Earth dist.	9878 Oct 31 21:32	18°ML54'50 40.70619 AU		9885 May 16 04:11	28°M09'52 37.06236 AU
conjunction	9878 Nov 03 03:49	18°M58'35 2°51'15	direct	9885 Aug 02 13:21 9885 Oct 29 06:04	27°M02'22 28°M30'53
3		18°M.58'34 2°51'32	evening set	9885 Nov 10 16:48	
minimum elong morning rise	9878 Nov 03 03:44 9878 Nov 18 22:17	19°M24'27	max. Earth dist.	9003 NOV 10 10.40	28°M52'22 38.92655 AU
•	9879 Feb 14 07:15	20°M48'06	conjunction	9885 Nov 13 04:56	28°M56'44 5°35'06
retrograde opposition	9879 May 06 02:17	19°ML40'22 3°12'12	minimum elong	9885 Nov 13 04:45	28°M56'43 5°35'25
min. Earth dist.	9879 May 08 03:43	19°M37'38 38.58331 AU	•	9885 Nov 28 03:36	29°M22'37
direct	9879 Jul 25 19:34	18°M32'17	morning rise	9885 Dec 21 10:55	0° ₹
evening set	9879 Oct 20 03:34	19°ML54'57	retrograde	9886 Feb 24 13:40	0° ₹ ¹52'35
max. Earth dist.	9879 Nov 02 13:02	20°M17'00 40.45726 AU	•	9886 May 02 18:39	30°RML
man. Darm Wist.	7017 110V 02 13.02	20 IIVI 700 TO.43/20 AC	opposition	9886 May 15 16:50	29°M42'19 6°05'53
conjunction	9879 Nov 04 19:52	20°M20'48 3°14'11	min. Earth dist.	9886 May 17 22:40	29°M39'13 36.80766 AU
minimum elong	9879 Nov 04 19:32 9879 Nov 04 19:46	20°M20'48 3°14'11 20°M20'48 3°14'28	direct	9886 Aug 04 04:16	28°M31'24
morning rise	9879 Nov 20 12:24	20°M46'44	anot	9886 Oct 30 14:20	0° ₹
retrograde	9880 Feb 16 01:49	22°M11'10	evening set	9886 Oct 31 05:21	0° 🗷 01'04
opposition	9880 May 06 16:36	21°ML03'07 3°36'29	max. Earth dist.	9886 Nov 12 12:47	0° ₹ 22'30 38.67076 AU
min. Earth dist.	9880 May 08 18:08	21°ML00'22 38.33370 AU		7000 NOV 12 12.4/	0 × 22 30 30.0/0/0 AU
direct	9880 Jul 26 08:55	19° M .54'39	conjunction	9886 Nov 15 00:16	0° ∡ 126'51 5°58'59
evening set	9880 Oct 20 22:09	21°M18'12	minimum elong	9886 Nov 15 00:16	0° ₹ 26′50 5°59′19
			ciong	, , , , , , , , , , , , , , , , , , , ,	

marning rise	9886 Nov 29 18:44	0° ₹ 52'39		agnismation	0902 Nav. 26, 00:22	110.7/40/22	8°46'54
morning rise				conjunction	9893 Nov 26 09:23	11° 🗷 40'33	
retrograde	9887 Feb 26 11:31	2° × 23'44	(001110	minimum elong	9893 Nov 26 09:07	11°× 7 40'31	8°47'16
opposition	9887 May 17 10:36	1° ∡ 13'07	6°31'13	morning rise	9893 Dec 09 11:31	12° ₹ 04'56	
min. Earth dist.	9887 May 19 15:47		36.55368 AU	retrograde	9894 Mar 10 04:19	13° ≯ 45'24	
direct	9887 Aug 05 21:42	0° ₹ 01'47		opposition	9894 May 28 08:00	12° ≯ 32'11	9°29'40
evening set	9887 Nov 02 05:50	1° ∡ ³32'42		min. Earth dist.	9894 May 30 17:16	12° ∡ ¹28'43	34.77165 AU
max. Earth dist.	9887 Nov 14 07:03	1° ∡ 753'52	38.41550 AU	direct	9894 Aug 16 11:11	11° √ 17'51	
				evening set	9894 Nov 15 14:18	12° ₹ ′59'08	
conjunction	9887 Nov 16 20:09	1° ₹ 58'23	6°22'56	max. Earth dist.	9894 Nov 25 16:06	13° ∡ 18′02	36.61855 AU
minimum elong	9887 Nov 16 19:57	1° ∡ 758'22	6°23'16				
morning rise	9887 Dec 01 10:14	2° × ⁷ 24'05	0 23 10	conjunction	9894 Nov 28 09:48	13° × *23'12	9°10'43
•				minimum elong			
retrograde	9888 Feb 28 09:39	3° ∡ 756'20	60.5 dia 0	2	9894 Nov 28 09:30	13°×23'11	9°11'07
opposition	9888 May 18 04:53	2° ∡ ¹45'22 −	6°56'39	morning rise	9894 Dec 11 04:33	13° ∡ ⁴47'14 –	
min. Earth dist.	9888 May 20 11:21	2° ≯ 42'12	36.30028 AU	retrograde	9895 Mar 12 06:41	15° ₹ 29'16	
direct	9888 Aug 06 14:17	1° ∡ ³33'39		opposition	9895 May 30 06:45	14° ∡ 15'38	9°55'00
evening set	9888 Nov 03 07:09	3° ҂ ¹05'52		min. Earth dist.	9895 Jun 01 17:01	14° ∡ 12'04	34.51699 AU
max. Earth dist.	9888 Nov 15 04:05	3° ∡ ¹26'54	38.16043 AU	direct	9895 Aug 18 08:22	13° ∡ ¹00'49	
				evening set	9895 Nov 17 23:24	14° ∡ ¹43'50	
conjunction	9888 Nov 17 16:48	3° х 31′26	6°46'55	max. Earth dist.	9895 Nov 27 17:55		36.36204 AU
minimum elong	9888 Nov 17 16:35	3° ₹ 31'25	6°47'17	max. Lartii dist.	7073 110V 27 17.33	13 × 02 20	30.30204710
•			0 4/1/		0005 N 20 11.02	150.707120	9°34'23
morning rise	9888 Dec 02 01:47	3° ∡ 757'00		conjunction	9895 Nov 30 11:02	15°×707'30	
retrograde	9889 Mar 01 05:55	5° ∡ 30′28		minimum elong	9895 Nov 30 10:45	15° ₹ 07'29	9°34'45
opposition	9889 May 19 23:52	4° ₹ 19'10	7°22'07	morning rise	9895 Dec 12 21:33	15° ₹ 31'07	
min. Earth dist.	9889 May 22 06:28	4° ⋌ 15'58	36.04688 AU	retrograde	9896 Mar 13 07:42	17° ∡ 14'48	
direct	9889 Aug 08 09:53	3° ₹ 07'04		opposition	9896 May 31 06:07	16° ₰ 00'45	10°20'10
evening set	9889 Nov 05 09:33	4° ∡ °40′39		min. Earth dist.	9896 Jun 02 16:21	15° ₹ '57'09	34.26378 AU
max. Earth dist.	9889 Nov 16 23:52	5° ₹ 01'23	37.90513 AU	direct	9896 Aug 19 08:58	14° ∡ ¹45'27	
				evening set	9896 Nov 19 09:52	16° ∡ ³30'17	
conjunction	9889 Nov 19 13:48	5° х ¹06'03	7°10'56	max. Earth dist.	9896 Nov 28 19:03		36.10749 AU
·				max. Earth dist.	9090 NOV 20 19.03	10 🗴 40 13	30.10749 AU
minimum elong	9889 Nov 19 13:34	5° ∡ 06'02	7°11'17		000675 01 10 16	1.60 7.5000	0055151
morning rise	9889 Dec 03 17:38	5° ∡ 31'27		conjunction	9896 Dec 01 12:46	16° ≯ 53'30	9°57'51
retrograde	9890 Mar 03 04:26	7° ҂ 06'13		minimum elong	9896 Dec 01 12:28	16° ₹ 53'29	9°58'15
opposition	9890 May 21 19:26	5° ₹ 754'34	7°47'39	morning rise	9896 Dec 13 14:49	17° ∡ 16'40	
min. Earth dist.	9890 May 24 02:34	5° ∡ 751'19	35.79310 AU	retrograde	9897 Mar 15 11:46	19° ∡ ¹02'04	
direct	9890 Aug 10 04:01	4° ҂ ¹42'03		opposition	9897 Jun 02 06:11	17° ∡ ¹47'35	10°45'07
evening set	9890 Nov 07 13:05	6° ҂ 17'03		min. Earth dist.	9897 Jun 04 16:05	17° ∡ ¹43'59	34.01303 AU
max. Earth dist.	9890 Nov 18 21:08	6° √ 37'31	37.64890 AU	direct	9897 Aug 21 07:34	16° ₹ 31'48	
max. Latin dist.	70701101 10 21.00	0 7 37 31	37.01070710	evening set	9897 Nov 21 21:16	18°× 18'32	
	0000 N 21 11 40	60 7 40U.6	702.4150	•			25 05542 ATT
conjunction	9890 Nov 21 11:49	6° х 42′16		max. Earth dist.	9897 Nov 30 21:40	18°×'35'56	35.85542 AU
minimum elong	9890 Nov 21 11:35	6° ∡ 742'15	7°35'20				
morning rise	9890 Dec 05 09:50	7° ҂ 07'28		conjunction	9897 Dec 03 15:14	18° ₹ '41'14	10°21'05
retrograde	9891 Mar 05 02:01	8° ∡ ¹43'35		minimum elong	9897 Dec 03 14:55	18° ∡ ⁴41'13	10°21'27
opposition	9891 May 23 15:39	7° ∡ ³31'34	8°13'11	morning rise	9897 Dec 15 08:05	19° ⋌ ¹03'54	
min. Earth dist.	9891 May 26 00:07	7° ∡ ¹28'13	35.53840 AU	retrograde	9898 Mar 17 12:45	20° ₹ 51'06	
direct	9891 Aug 11 21:43	6° ⊀ 18'38		opposition	9898 Jun 04 07:08	19° ∡ ³36′12	11°09'48
evening set	9891 Nov 09 17:50	7° ₹ 755'06		min. Earth dist.	9898 Jun 06 17:31	19° ∡ ¹32'33	33.76511 AU
max. Earth dist.	9891 Nov 20 19:18		37.39186 AU	direct	9898 Aug 23 06:06	18° × 19'58	55.70011110
max. Lartii dist.	7071 110V 20 17.10	0 × 15 15	37.37100710	evening set	9898 Nov 24 10:21	20°×1936	
agniumation	9891 Nov 23 10:26	8° ⊀ 20'05	7°59'00	•			35.60657 AU
conjunction				max. Earth dist.	9898 Dec 03 01:34	20° x · 25′30	33.0003 / AU
minimum elong	9891 Nov 23 10:10	8° ≯ 20'04	7°59'21			_	
morning rise	9891 Dec 07 02:18	8° ҂ ¹45′03		conjunction	9898 Dec 05 18:34	20° ₹ 30'49	10°44'01
retrograde	9892 Mar 06 01:49	10° ∡ °22'34		minimum elong	9898 Dec 05 18:15	20° ∡ ³30'47	10°44'25
opposition	9892 May 24 12:27	9° ∡ 10′10	8°38'44	morning rise	9898 Dec 17 01:43	20° ∡ ¹52'54	
min. Earth dist.	9892 May 26 20:41	9° ∡ ¹06'48	35.28301 AU	retrograde	9899 Mar 19 16:39	22° ∡ ¹42'00	
direct	9892 Aug 12 17:19	7° ∡ 756'47		opposition	9899 Jun 06 08:33	21° х 26′42	11°34'11
evening set	9892 Nov 10 23:28	9° х 34'47		min. Earth dist.	9899 Jun 08 17:57		33.52058 AU
•			27 12402 ATT	direct		20°×10'00	33.32030 110
max. Earth dist.	9892 Nov 21 16:47	2 X 34 31	37.13402 AU		9899 Aug 25 06:06		
	00000	00 7500	0000150	evening set	9899 Nov 27 00:43	22° √ 00'47	25.26000 : *-
conjunction	9892 Nov 24 09:30	9° ∡ 759'31	8°22'59	max. Earth dist.	9899 Dec 05 04:58	22° × 16'54	35.36099 AU
minimum elong	9892 Nov 24 09:14	9° ∡ 759'29	8°23'22				
morning rise	9892 Dec 07 18:49	10° ∡ 24'13		conjunction	9899 Dec 07 22:41	22° ₹ 22'19	11°06'37
retrograde	9893 Mar 08 03:00	12° ∡ 03'11		minimum elong	9899 Dec 07 22:22	22° ₹ 22'18	11°07'00
opposition	9893 May 26 10:00	10° ∡ 50′22	9°04'14	morning rise	9899 Dec 18 19:38	22° ∡ ¹43'47	
min. Earth dist.	9893 May 28 19:45		35.02721 AU	retrograde	9900 Mar 21 21:57	24° ∡ ³34'51	
direct	9893 Aug 14 12:37	9° х 36'31		opposition	9900 Jun 08 11:01	23° х 19'10	11°58'11
evening set	9893 Nov 13 06:17	11° х 16'08		min. Earth dist.	9900 Jun 10 21:17		33.27943 AU
max. Earth dist.			26 97606 ATT			23° × °13′29 22° × °02′01	33.41743 AU
	9893 Nov 23 17:14	11 7.3333	36.87606 AU	direct	9900 Aug 27 04:35	77 ¥.07 01	

. ,	000001 20 16 27	220 755100	•	0006 D 22 02 27	60710124 126	21124
evening set	9900 Nov 29 16:27	23° 🗷 55'00	conjunction	9906 Dec 23 02:37	6°319'34 13°	
max. Earth dist.	9900 Dec 07 11:00	24° 尽 10′27 35.11870	-	9906 Dec 23 02:16		°31'48
		_	morning rise	9906 Dec 30 02:42	6° る 34'23	
conjunction	9900 Dec 10 03:31	24° ✓ 15'50 11°28'49	retrograde	9907 Apr 06 10:05	8° る 41'39	
minimum elong	9900 Dec 10 03:11	24° ✓ 15'48 11°29'14	opposition	9907 Jun 23 02:24		°31'48
morning rise	9900 Dec 20 13:25	24° ₹ ³36'37	min. Earth dist.	9907 Jun 25 12:19	7° る 19'18 31.6	66998 AU
retrograde	9901 Mar 24 04:17	26° ₹ ¹29'45	direct	9907 Sep 10 13:14	6° る 02'41	
opposition	9901 Jun 10 14:09	25° х 13′41 12°21′47	evening set	9907 Dec 19 05:48	8° る 13'32	
min. Earth dist.	9901 Jun 12 23:28	25° х 10′02 33.04135	AU max. Earth dist.	9907 Dec 22 21:36	8° ට 21'20 33.5	50062 AU
direct	9901 Aug 29 07:16	23° ∡ ¹56′06				
evening set	9901 Dec 02 09:48	25° ₹ '51'20	conjunction	9907 Dec 25 13:16	8° පි 27'00 13°	49'29
max. Earth dist.	9901 Dec 09 15:39	26° ₹ 05'54 34.87926	AU minimum elong	9907 Dec 25 12:57	8° පි 26'59 13°	49'53
			morning rise	9907 Dec 31 19:51	8° る 40'25	
conjunction	9901 Dec 12 09:13	26° ₹ 11'25 11°50'36	retrograde	9908 Apr 07 20:48	10°る50'25	
minimum elong	9901 Dec 12 08:53	26° ₹ 11'23 11°51'00	opposition	9908 Jun 24 11:15		50'55
morning rise	9901 Dec 22 07:41	26° ₹ 31'26	min. Earth dist.	9908 Jun 26 19:37	9° ට 27'44 31.4	
retrograde	9902 Mar 26 13:24	28° ₹ 26'42	direct	9908 Sep 11 22:20	8° ට 10'34	13437 110
•	9902 Jun 12 18:05	27° 🖈 10'16 12°44'55		9908 Dec 21 12:10	8 01034 10°る24'29	
opposition			evening set			20506 ATT
min. Earth dist.	9902 Jun 15 04:08	27° х 06'33 32.80606	AU max. Earth dist.	9908 Dec 24 08:35	10° පි 30'37 33.2	28506 AU
direct	9902 Aug 31 10:05	25° ₹ 52'13				
evening set	9902 Dec 05 04:45	27° ∡ ¹49'49	conjunction	9908 Dec 27 00:27		06'43
max. Earth dist.	9902 Dec 11 23:18	28° 尽 03'34 34.64228	C	9908 Dec 27 00:08		07'08
			morning rise	9909 Jan 01 11:58	10°る48'10	
conjunction	9902 Dec 14 15:59	28° 尽 09'04 12°11'55	retrograde	9909 Apr 10 08:49	13° る 01'06	
minimum elong	9902 Dec 14 15:38	28° 尽 09'02 12°12'20	opposition	9909 Jun 26 21:00	11° ප් 41'46 15°	09'04
morning rise	9902 Dec 24 02:00	28° ₹ 28'14	min. Earth dist.	9909 Jun 29 05:29	11° ප 37'58 31.2	24452 AU
	9903 Feb 15 17:02	0° る	direct	9909 Sep 14 05:46	10° පි 20'21	
retrograde	9903 Mar 28 21:13	0°る25'44	evening set	9909 Dec 24 22:02	12° る 37'36	
	9903 May 09 19:04	30°R. ✓	max. Earth dist.	9909 Dec 26 22:55	12° ප් 42'01 33.0)7572 AU
opposition	9903 Jun 14 22:59	29° х 08′53 13°07′33				
min. Earth dist.	9903 Jun 17 08:53	29° ×1 05'09 32.57303	AU conjunction	9909 Dec 29 12:38	12° る 47'37 14°	°22'59
direct	9903 Sep 02 15:43	27° ₹ ′50′23	minimum elong	9909 Dec 29 12:20	12° る 47'35 14°	23'23
evening set	9903 Dec 08 01:24	29° ₹ 50'25	morning rise	9910 Jan 03 02:28	12° る 57'35	
	9903 Dec 12 17:30	0° ප	retrograde	9910 Apr 12 21:15	15° る 13'41	
max. Earth dist.	9903 Dec 14 05:52	0° ට 03'07 34.40768	_	9910 Jun 29 07:24	13°る53'57 15°	26'11
max. Earth dist.	7703 Dec 14 03.32	0 305 07 54.40700	min. Earth dist.	9910 Jul 01 14:14	13°る50'15 31.0	
conjunction	9903 Dec 16 23:23	0°る08'44 12°32'43	direct	9910 Sep 16 16:00	13° ろ 32'06	7100 AU
conjunction		0°る08'43 12°33'06		9910 Sep 10 10:00 9910 Dec 28 12:37	12 3 5200 14° る 53'04	
minimum elong	9903 Dec 16 23:03		evening set			2222 411
morning rise	9903 Dec 25 20:24	0° る 26'59	max. Earth dist.	9910 Dec 29 11:51	14° る 55'12 32.8	5/33/ AU
retrograde	9904 Mar 30 06:34	2° 3 26'46		00111 01 01 01 00	150-70050 140	2011.4
opposition	9904 Jun 16 04:34	1°る09'32 13°29'37	conjunction	9911 Jan 01 01:30		38'14
min. Earth dist.	9904 Jun 18 14:23	1°る05'47 32.34254	C	9911 Jan 01 01:13		38'39
	9904 Aug 09 17:55	30° ₹ ズ	morning rise	9911 Jan 04 13:46	15° ⋜ 08'32	
direct	9904 Sep 03 20:17	29° ∡ 50'33	retrograde	9911 Apr 15 12:38	17° る 28'13	
	9904 Sep 28 14:42	0°පි	opposition	9911 Jul 01 18:46	16° る 08'07 15°	
evening set	9904 Dec 09 23:36	1° る 53'07	min. Earth dist.	9911 Jul 04 00:52	16° る 04'27 30.8	34490 AU
max. Earth dist.	9904 Dec 15 14:33	2° ප 04'46 34.17560	AU direct	9911 Sep 19 02:26	14° る 45'52	
			evening set	9912 Jan 01 13:31	17° る 11'28	
conjunction	9904 Dec 18 07:44	2° ප 10'25 12°52'56	max. Earth dist.	9912 Jan 01 03:56	17°る10'35 32.6	57851 AU
minimum elong	9904 Dec 18 07:24	2° ප 10'23 12°53'21				
morning rise	9904 Dec 26 14:46	2° る 27'37	conjunction	9912 Jan 03 15:14	17° ප 16'03 14°	52'22
retrograde	9905 Apr 01 14:29	4° る 29'48	minimum elong	9912 Jan 03 14:58	17° ට 16'02 14°	°52'45
opposition	9905 Jun 18 11:08	3°る12'08 13°51'04	morning rise	9912 Jan 05 16:24	17° පි 20'35	
min. Earth dist.	9905 Jun 20 21:21	3° る 08'20 32.11476		9912 Apr 17 02:46	19° る 44'44	
direct	9905 Sep 06 01:46	1° る 52'41	opposition	9912 Jul 03 06:58	18° る 24'19 15°	56'54
evening set	9905 Dec 12 23:38	3° る 57'52	min. Earth dist.	9912 Jul 05 11:56	18°る20'43 30.6	
max. Earth dist.	9905 Dec 17 23:46	4° る 08'21 33.94674		9912 Sep 20 14:47	17°る01'42	2012 110
man. Darm Wist.	7705 DCC 17 25.40	T 000 21 33.340/4	max. Earth dist.	9912 Sep 20 14.47 9913 Jan 02 18:53	17 301 42 19° る 27'52 32.4	101/12 ATT
conjunction	9905 Dec 20 16:40	4°る14'02 13°12'31	max. Ealth tist.	7713 Jan 02 10.33	1) 02/32 32.	1/170 AU
conjunction			oi	0012 I 05 05 25	100=20000 150	005!10
minimum elong	9905 Dec 20 16:20	4°る14'00 13°12'55	conjunction	9913 Jan 05 05:35		05'18
morning rise	9905 Dec 28 08:46	4° る 30'06	minimum elong	9913 Jan 05 05:20		05'43
retrograde	9906 Apr 04 01:26	6° る 34'46	retrograde	9913 Apr 19 19:23	22° る 03'18	
opposition	9906 Jun 20 18:21	5° 전 16'41 14°11'50	opposition	9913 Jul 05 19:51		10'21
min. Earth dist.	9906 Jun 23 03:32	5° 전 12'55 31.89039		9913 Jul 07 23:21	20° ප 39'04 30.4	47501 AU
direct	9906 Sep 08 07:55	3° る 56'44	direct	9913 Sep 23 02:47	19° る 19'38	
evening set	9906 Dec 16 01:34	6° る 04'40	max. Earth dist.	9914 Jan 05 11:56	21° る 47'20 32.3	31193 AU
max. Earth dist.	9906 Dec 20 09:34	6° ප 13'49 33.72141	AU			

:	0014 I 07 20.51	210752140	1591(150		0022 I 27 22.10	1100 000140	15050122
conjunction	9914 Jan 07 20:51	21°る52'40		conjunction	9922 Jan 27 22:10	11°≈28'48	15°58'33
minimum elong	9914 Jan 07 20:38	21°る52'39	15°17'22	minimum elong	9922 Jan 27 22:11	11°≈28'48	15°58'52
retrograde	9914 Apr 22 11:06	24° る 23'53		retrograde	9922 May 12 11:47	14°≈07'28	
opposition	9914 Jul 08 09:43	23° る 02'55		opposition	9922 Jul 28 01:15	12° ≈ 44'30	
min. Earth dist.	9914 Jul 10 12:49		30.30101 AU	min. Earth dist.	9922 Jul 29 16:17		29.18015 AU
direct	9914 Sep 25 15:15	21° る 39'38		direct	9922 Oct 15 01:50	11° ≈ 18'56	
max. Earth dist.	9915 Jan 08 05:03	24° る 08'45	32.13971 AU	max. Earth dist.	9923 Jan 29 01:34	13° ≈ 57'16	31.04706 AU
conjunction	9915 Jan 10 12:54	24° る 14'02	15°27'23	conjunction	9923 Jan 30 18:28	14° ≈ 01'19	15°56'20
minimum elong	9915 Jan 10 12:42	24° る 14'01	15°27'46	minimum elong	9923 Jan 30 18:32	14° ≈ 01'19	15°56'39
retrograde	9915 Apr 25 05:38	26° ප් 46'26			9923 Feb 25 00:52	15° ≈	
opposition	9915 Jul 11 00:10	25° る 25'12		retrograde	9923 May 15 06:59	16° ≈ 40'32	
min. Earth dist.	9915 Jul 13 01:25		30.13401 AU	opposition	9923 Jul 30 20:42	15°≈17'24	16°59'24
direct	9915 Sep 28 05:03	24° る 01'36		min. Earth dist.	9923 Aug 01 09:56		29.08165 AU
max. Earth dist.	9916 Jan 10 23:01	26° る 32'05	31.97450 AU		9923 Aug 10 03:28	15°R ≈	
				direct	9923 Oct 17 22:40	13° ≈ 51'40	
conjunction	9916 Jan 13 05:45	26° る 37'18	15°36'24		9923 Dec 22 05:05	15° ≈	
minimum elong	9916 Jan 13 05:35	26° る 37'17	15°36'46	max. Earth dist.	9924 Jan 31 23:46	16° ≈ 30'46	30.95499 AU
retrograde	9916 Apr 26 21:09	29° る 10'51					
opposition	9916 Jul 12 15:43	27°る49'20	16°42'19	conjunction	9924 Feb 02 14:53	16° ≈ 34'39	15°52'18
min. Earth dist.	9916 Jul 14 16:50	27° る 45'56	29.97392 AU	minimum elong	9924 Feb 02 14:59	16° ≈ 34'39	15°52'36
direct	9916 Sep 29 18:05	26° る 25'26		retrograde	9924 May 17 04:13	19° ≈ 14'21	
max. Earth dist.	9917 Jan 12 18:16	28° ප් 57'16	31.81662 AU	opposition	9924 Aug 01 16:30	17° ≈ 51'06	16°54'19
				min. Earth dist.	9924 Aug 03 02:31	17° ≈ 48'41	28.99468 AU
conjunction	9917 Jan 14 23:04	29° ට 02'21	15°44'01	direct	9924 Oct 19 19:15	16° ≈ 25′15	
minimum elong	9917 Jan 14 22:56	29° る 02'20	15°44'23	max. Earth dist.	9925 Feb 02 23:48	19° ≈ 05'11	30.87468 AU
	9917 Feb 09 14:04	0°≈					
retrograde	9917 Apr 29 14:53	1° ≈ 36'57		conjunction	9925 Feb 04 11:34	19° ≈ 08'45	15°46'25
opposition	9917 Jul 15 07:47	0°≈15'11	16°49'58	minimum elong	9925 Feb 04 11:43	19° ≈ 08'46	15°46'43
min. Earth dist.	9917 Jul 17 06:46	0°≈11'54	29.82094 AU	retrograde	9925 May 20 00:11	21° ≈ 48'52	
	9917 Jul 24 10:43	30°R₹		opposition	9925 Aug 04 12:46	20° ≈ 25'33	16°47'14
direct	9917 Oct 02 10:36	28° ප් 50'58		min. Earth dist.	9925 Aug 05 21:21	20° ≈ 23'14	28.91910 AU
	9917 Dec 07 20:53	0° ≈		direct	9925 Oct 22 15:00	18° ≈ 59'39	
max. Earth dist.	9918 Jan 15 13:01	1° ≈ 23'59	31.66618 AU	max. Earth dist.	9926 Feb 05 23:00	21° ≈ 40′12	30.80613 AU
conjunction	9918 Jan 17 17:09	1° ≈ 29'01	15°50'08	conjunction	9926 Feb 07 08:30	21° ≈ 43'33	15°38'40
minimum elong	9918 Jan 17 17:02	1° ≈ 29'00	15°50'29	minimum elong	9926 Feb 07 08:39	21° ≈ 43'34	15°38'57
retrograde	9918 May 02 08:49	4°≈04'36		retrograde	9926 May 22 22:30	24° ≈ 23'59	
opposition	9918 Jul 18 00:30	2°≈42'34	16°55'59	opposition	9926 Aug 07 09:02	23° ≈ 00'38	16°38'10
min. Earth dist.	9918 Jul 19 23:06	2°≈39'19	29.67546 AU	min. Earth dist.	9926 Aug 08 14:24	22°≈58'33	28.85473 AU
direct	9918 Oct 05 00:37	1°≈18'03		direct	9926 Oct 25 12:40	21° ≈ 34'43	
max. Earth dist.	9919 Jan 18 10:16	3°≈52'20	31.52377 AU	max. Earth dist.	9927 Feb 08 22:56	24°≈15'51	30.74869 AU
conjunction	9919 Jan 20 11:54	3° ≈ 57'09	15°54'43	conjunction	9927 Feb 10 05:42	24° ≈ 18′56	15°29'06
minimum elong	9919 Jan 20 11:49	3° ≈ 57'09	15°55'05	minimum elong	9927 Feb 10 05:55	24° ≈ 18'57	15°29'22
retrograde	9919 May 05 02:18	6° ≈ 33'38		retrograde	9927 May 25 18:24	26° ≈ 59'36	
opposition	9919 Jul 20 17:54	5° ≈ 11'21	17°00'19	opposition	9927 Aug 10 05:53	25° ≈ 36′15	16°27'07
min. Earth dist.	9919 Jul 22 14:20	5° ≈ 08'14	29.53787 AU	min. Earth dist.	9927 Aug 11 10:06	25° ≈ 34'15	28.80109 AU
direct	9919 Oct 07 18:37	3° ≈ 46'32		direct	9927 Oct 28 08:28	24° ≈ 10′20	
max. Earth dist.	9920 Jan 21 06:00	6° ≈ 21'49	31.38986 AU	max. Earth dist.	9928 Feb 11 22:46	26° ≈ 51'56	30.70220 AU
conjunction	9920 Jan 23 06:52		15°57'41	conjunction	9928 Feb 13 02:48	26° ≈ 54'45	15°17'43
minimum elong	9920 Jan 23 06:48	6° ≈ 26'35	15°58'02	minimum elong	9928 Feb 13 03:02	26° ≈ 54'46	15°17'58
retrograde	9920 May 06 20:59	9° ≈ 03'53		retrograde	9928 May 27 15:28	29° ≈ 35'33	
opposition	9920 Jul 22 11:53	7° ≈ 41'22		opposition	9928 Aug 12 02:50	28°≈12'13	16°14'08
min. Earth dist.	9920 Jul 24 07:05		29.40899 AU	min. Earth dist.	9928 Aug 13 03:48	28°≈10′26	28.75783 AU
direct	9920 Oct 09 12:07	6°≈16'16		direct	9928 Oct 30 07:03	26° ≈ 46′20	
max. Earth dist.	9921 Jan 23 04:48	8° ≈ 52'43	31.26526 AU	max. Earth dist.	9929 Feb 13 22:06	29° ≈ 28'14	30.66618 AU
	00 01 X	00 5	1.50.50:50		0000 F. 1. 1.	000 000	1.500
conjunction	9921 Jan 25 02:26	8°≈57'12		conjunction	9929 Feb 15 00:04	29°≈30'50	15°04'34
minimum elong	9921 Jan 25 02:25		15°59'20	minimum elong	9929 Feb 15 00:21	29°≈30'52	15°04'48
retrograde	9921 May 09 15:22	11° ≈ 35'13			9929 Feb 27 04:35	0° ∀	
opposition	9921 Jul 25 06:20	10°≈12'27		retrograde	9929 May 30 12:11	2°) 11'39	
min. Earth dist.	9921 Jul 26 23:35	10°≈09'32	29.28943 AU	opposition	9929 Aug 14 23:54	0°) 48′21	15°59'13
direct					•	0.03.6	
	9921 Oct 12 07:17	8° ≈ 47'06		min. Earth dist.	9929 Aug 15 23:26		28.72486 AU
max. Earth dist.		8° ≈ 47'06	31.15077 AU	min. Earth dist.	•	0°¥46'40 30°R≈ 29°≈22'30	28.72486 AU

	0020 D 10 12 21	001/			00261 16 22 40	2001/12/10	
	9929 Dec 19 12:31	0°) {		retrograde	9936 Jun 16 22:40	20° ¥ 12'19	10005100
evening set	9930 Feb 15 12:05	2° ∺ 01'14		opposition	9936 Sep 02 00:39	18°) (49′36	
				min. Earth dist.	9936 Sep 02 06:24		28.78898 AU
conjunction	9930 Feb 17 21:20	2° ∺ 06'58 1	4°49'39	direct	9936 Nov 20 10:31	17° ∺ 24'35	
minimum elong	9930 Feb 17 21:37	2° ∺ 07'00 1	4°49'52	evening set	9937 Feb 26 17:37	19°) (44′24	
max. Earth dist.	9930 Feb 16 22:25	2° ∺ 04'40 30	0.64067 AU				
morning rise	9930 Feb 20 07:06	2° 升 12'46		conjunction	9937 Mar 07 17:39	20°) €05'41	12°20'10
retrograde	9930 Jun 02 07:52	4°) 47'41		minimum elong	9937 Mar 07 18:04	20°) €05'44	12°20'16
opposition	9930 Aug 17 21:01		5°42'28	max. Earth dist.	9937 Mar 07 13:52		30.76602 AU
min. Earth dist.	9930 Aug 18 17:41	3°) €22'58 28		morning rise	9937 Mar 16 17:45	20° \ 27'00	30.70002110
direct	9930 Nov 05 01:09	1° ¥ 58'40	0.70100 AC	retrograde	9937 Jun 19 17:51	20 X 2700	
		4°)(33'41		-		21°\(\frac{4}{2}\)008	12°57'01
evening set	9931 Feb 16 21:42	4°π33'41		opposition	9937 Sep 04 19:59		
				min. Earth dist.	9937 Sep 04 21:52		28.84447 AU
conjunction	9931 Feb 20 18:22		4°33'02	direct	9937 Nov 23 08:57	19° ¥ 55′50	
minimum elong	9931 Feb 20 18:42		4°33'14	evening set	9938 Feb 28 20:31	22° ℋ 13'26	
max. Earth dist.	9931 Feb 19 21:08	4°) 40′50 30	0.62538 AU				
morning rise	9931 Feb 24 15:35	4° ¥ 52'18		conjunction	9938 Mar 10 12:02	22° ∺ 36′08	11°53'05
retrograde	9931 Jun 05 03:12	7°) €23'30		minimum elong	9938 Mar 10 12:27	22°) 36'11	11°53'10
opposition	9931 Aug 20 18:07	6° ₩ 00'18 1	5°23'52	max. Earth dist.	9938 Mar 10 11:48	22°) 36′07	30.83101 AU
min. Earth dist.	9931 Aug 21 12:51	5° ¥ 58'58 28	8.68911 AU	morning rise	9938 Mar 20 03:23	22°) 58'51	
direct	9931 Nov 07 22:16	4°) €34'35		retrograde	9938 Jun 22 10:32	25°¥12'50	
evening set	9932 Feb 18 15:48	7°) €06'40		opposition	9938 Sep 07 15:13	23° X 50'31	12°27'20
evening set	9932 100 10 13.40	/ /(0040			-		
	0000 F. J. 00 15 10	50 1/1010 5 1	401.414.5	min. Earth dist.	9938 Sep 07 15:19		28.91164 AU
conjunction	9932 Feb 23 15:19		4°14'45	direct	9938 Nov 26 05:20	22° ∺ 26′02	
minimum elong	9932 Feb 23 15:39		4°14'57	evening set	9939 Mar 03 00:02	24°) 41′28	
max. Earth dist.	9932 Feb 22 21:40	7° ¥ 16′51 30	0.62064 AU				
morning rise	9932 Feb 28 15:14	7°) 30′37		conjunction	9939 Mar 13 05:46	25°) €05'28	11°24'48
retrograde	9932 Jun 06 21:43	9° ¥ 58'51		minimum elong	9939 Mar 13 06:11	25°) €05'30	11°24'51
opposition	9932 Aug 22 15:08	8° ¥ 35'43 1	5°03'30	max. Earth dist.	9939 Mar 13 08:06	25°) €05'41	30.90747 AU
min. Earth dist.	9932 Aug 23 07:25	8° ¥ 34'34 28	8.68664 AU	morning rise	9939 Mar 23 11:18	25° ¥ 29'27	
direct	9932 Nov 09 20:36	7° ¥ 10'06		retrograde	9939 Jun 25 03:44	27°) €41'20	
evening set	9933 Feb 19 13:09	9°) (39'30		opposition	9939 Sep 10 09:52	26°) 19'16	11°56'26
evening sec),551 c 0 1, 15.0,	7 7(3730		min. Earth dist.	9939 Sep 10 05:32		28.98979 AU
agnismation	9933 Feb 25 11:41	9°) 53'44 1	3°54'52	direct	9939 Nov 29 02:29	24° X 55'06	20.70717 AU
conjunction							
minimum elong	9933 Feb 25 12:04		3°55'01	evening set	9940 Mar 04 03:49	27°) €08'24	
max. Earth dist.	9933 Feb 24 19:45	9° ¥ 52'08 30	0.62659 AU				
morning rise	9933 Mar 03 10:40	10° ∺ 08'00		conjunction	9940 Mar 14 23:00	27° ¥ 33'35	10°55'27
retrograde	9933 Jun 09 17:25	12°) 33′34		minimum elong	9940 Mar 14 23:24	27°) €33'37	10°55'30
opposition	9933 Aug 25 11:53	11° ∺ 10′30 1	4°41'24	max. Earth dist.	9940 Mar 15 04:01	27°) 34′04	30.99448 AU
min. Earth dist.	9933 Aug 26 01:22	11° 米 09'33 28	8.69498 AU	morning rise	9940 Mar 25 17:54	27°) € 58'44	
direct	9933 Nov 12 17:09	9°) 44'59			9940 Jun 04 14:22	$0^{\circ}\mathbf{\Upsilon}$	
evening set	9934 Feb 21 12:42	12° ₩ 11'52		retrograde	9940 Jun 26 20:16	0° Y ′08'35	
Ç				Ç	9940 Jul 19 08:44	30° ₽ ₩	
conjunction	9934 Feb 28 07:58	12° ¥ 28'07 1	3°33'24	opposition	9940 Sep 12 04:11	28°) (46'46	11°24'25
minimum elong	9934 Feb 28 08:21		3°33'33	min. Earth dist.	9940 Sep 11 22:54		29.07840 AU
max. Earth dist.	9934 Feb 27 19:55	12° \(\) 26'55 30		direct	9940 Nov 30 21:23	27° H 22'55	27.07040710
			0.04302 AU				
morning rise	9934 Mar 07 03:26	12°) (44'24		evening set	9941 Mar 06 07:58	29°) (34′08	
retrograde	9934 Jun 12 10:32	15° ¥ 07′28	1017100		004134 15 15 20	00000000	10005105
opposition	9934 Aug 28 08:21		4°17'39	conjunction	9941 Mar 17 15:39	0° Υ '00'22	10°25'07
min. Earth dist.	9934 Aug 28 19:45	13°) 43'41 28	8.71439 AU	minimum elong	9941 Mar 17 16:04	0° Υ '00'25	10°25'08
direct	9934 Nov 15 16:05	12°) (19′06			9941 Mar 17 11:48	0 ° Υ	
evening set	9935 Feb 23 13:34	14°) (43′34		max. Earth dist.	9941 Mar 17 23:30	0° Y 01′08	31.09160 AU
				morning rise	9941 Mar 28 22:51	0° Y 26′35	
conjunction	9935 Mar 03 03:39	15° 米 01'38 1	3°10'25	retrograde	9941 Jun 29 11:43	2° Y 34'27	
minimum elong	9935 Mar 03 04:03		3°10'32	opposition	9941 Sep 14 21:54	1° Y 12'54	10°51'26
max. Earth dist.	9935 Mar 02 17:31	15° ∺ 00'38 30		min. Earth dist.	9941 Sep 14 13:51		29.17657 AU
morning rise	9935 Mar 10 18:02	15°) € 19'45			9941 Nov 07 20:16	30° ₹	
•	9935 Jun 15 05:51	17°) (40'25		direct	9941 Dec 03 17:54	29°) 49′22	
retrograde			2052116	uncei		29° π 49°22 0° Υ	
opposition	9935 Aug 31 04:36	16° ¥ 17'32 1			9941 Dec 29 01:19		
min. Earth dist.	9935 Aug 31 12:20	16° ¥ 16′59 28	8.74364 AU	evening set	9942 Mar 08 12:27	1° Y 58'33	
direct	9935 Nov 18 14:03	14° ¥ 52'19					
evening set	9936 Feb 25 15:07	17° ∺ 14'26		conjunction	9942 Mar 20 07:42	2° Y 25'45	9°53'56
				minimum elong	9942 Mar 20 08:06	2° Y 25'47	
conjunction	9936 Mar 04 22:53	17°) 34′10 1	2°45'59	max. Earth dist.	9942 Mar 20 17:20	2° Y ′26'41	31.19786 AU
conjunction minimum elong	9936 Mar 04 22:53 9936 Mar 04 23:17		2°45'59 2°46'06	max. Earth dist. morning rise	9942 Mar 20 17:20 9942 Apr 01 02:33	2° Υ 26'41 2° Υ 52'54	31.19786 AU
·			2°46'06				31.19786 AU
minimum elong	9936 Mar 04 23:17	17° ¥ 34'13 1	2°46'06	morning rise	9942 Apr 01 02:33	2° Y ′52'54	31.19786 AU 10°17'34

' T 41 1' 4	0042 G 17 04 50	200020115	20.20204.411		0040 4 10 00 21	1000007115	
min. Earth dist.	9942 Sep 17 04:50		29.28394 AU	morning rise	9949 Apr 19 09:31	19° Y ′07'15	
direct	9942 Dec 06 11:32	2°Υ14'20		retrograde	9949 Jul 17 09:57	21° Υ 01'18	6004140
evening set	9943 Mar 10 17:08	4° Y 21'32		opposition	9949 Oct 03 21:32	19° Y 41'55	
		10001010		min. Earth dist.	9949 Oct 02 19:10		30.27549 AU
conjunction	9943 Mar 22 23:16	4° Υ 49'36	9°21'59	direct	9949 Dec 23 05:29	18° Y 21'04	
minimum elong	9943 Mar 22 23:39	4° Y 49'38	9°21'58	evening set	9950 Mar 24 02:27	20° Y 15'54	
max. Earth dist.	9943 Mar 23 12:03		31.31302 AU				
morning rise	9943 Apr 04 04:38	5° Y 17'36		conjunction	9950 Apr 07 14:22	20° Y 47'30	5°24'30
retrograde	9943 Jul 04 13:57	7° Y 21′39		minimum elong	9950 Apr 07 14:36	20° Ƴ 47'31	5°24'23
opposition	9943 Sep 20 07:48	6° Y 00′39	9°42'57	max. Earth dist.	9950 Apr 08 19:08		32.35463 AU
min. Earth dist.	9943 Sep 19 19:30	6° Ƴ 01'29	29.39990 AU	morning rise	9950 Apr 22 01:09	21° Y 19'00	
direct	9943 Dec 09 06:24	4° Ƴ 37'45		retrograde	9950 Jul 19 19:09	23° Y 11'38	
evening set	9944 Mar 11 21:52	6° Ƴ 42'59		min. Earth dist.	9950 Oct 05 04:09	21° Y 54'30	30.45241 AU
				opposition	9950 Oct 06 09:17	21° Y ′52'36	5°27'22
conjunction	9944 Mar 24 13:49	7° Ƴ 11'49	8°49'22	direct	9950 Dec 25 20:33	20° Y ′32'09	
minimum elong	9944 Mar 24 14:11	7° Ƴ 11'51	8°49'22	evening set	9951 Mar 26 07:09	22° Y °25'32	
max. Earth dist.	9944 Mar 25 03:54	7° Ƴ 13'09	31.43651 AU				
morning rise	9944 Apr 06 05:14	7° Ƴ 40'34		conjunction	9951 Apr 09 23:48	22° Y 57'20	4°49'35
retrograde	9944 Jul 06 03:46	9° Ƴ 42'48		minimum elong	9951 Apr 10 00:01	22° Y 57'21	4°49'26
opposition	9944 Sep 21 23:48	8° Y 22'03	9°07'40	max. Earth dist.	9951 Apr 11 06:32	23° Y ′00'07	32.53774 AU
min. Earth dist.	9944 Sep 21 08:41	8° Y 23'04	29.52435 AU	morning rise	9951 Apr 24 15:31	23° Y ′29'02	
direct	9944 Dec 10 22:38	6° Ƴ 59'27		retrograde	9951 Jul 22 03:15	25° Y ′20′20	
evening set	9945 Mar 14 02:40	9° Y '02'49		opposition	9951 Oct 08 20:34	24° Y °01'40	4°50'02
8				min. Earth dist.	9951 Oct 07 13:17		30.63757 AU
conjunction	9945 Mar 27 03:57	9° Y 32'18	8°16'11	direct	9951 Dec 28 08:00	22° Υ 41'39	
minimum elong	9945 Mar 27 04:18	9° Υ 32'20	8°16'08	evening set	9952 Mar 27 11:32	24° Y '33'36	
max. Earth dist.	9945 Mar 27 21:17		31.56822 AU	evening sec),02 mai 2, 11.02	2. , 5550	
morning rise	9945 Apr 09 04:18	10° Υ 01'44	31.30022710	conjunction	9952 Apr 11 08:32	25° Y '05'33	4°14'40
retrograde	9945 Jul 08 14:01	12° Υ 02'11		minimum elong	9952 Apr 11 08:43	25° Υ 05'34	4°14'32
opposition	9945 Sep 24 15:05	12 γ 02 11 10° Υ 41'41	8°31'50	max. Earth dist.	9952 Apr 12 18:03		32.72841 AU
min. Earth dist.	9945 Sep 23 22:37	10° Y 42'47		morning rise	9952 Apr 26 04:17	25° Y '37'23	32.72041 AU
direct	9945 Dec 13 15:58	9° Υ 19'25	29.03700 AU	retrograde	9952 Jul 23 09:19	27° Y 27'24	
evening set	9946 Mar 16 07:38	11° Υ 20'55		min. Earth dist.	9952 Oct 08 22:07		30.82986 AU
evening set	9940 Mai 10 07.36	11 1 20 33		opposition	9952 Oct 10 07:06	26°Υ09'07	4°12'46
	0046 Mar. 20, 17-11	11° Y 50'59	7942120	direct		26 γ 09 07 24° γ 49'32	4 12 40
conjunction	9946 Mar 29 17:11		7°42'30		9952 Dec 29 21:18		
minimum elong	9946 Mar 29 17:30	11° Υ 51'01	7°42'27	evening set	9953 Mar 29 16:12	26° Ƴ 40'08	
max. Earth dist.	9946 Mar 30 11:40		31.70811 AU				
	00464 10 0001	1000000150		and the same of th	0050 1 10 16 05		2020110
morning rise	9946 Apr 12 02:01	12° Y ′20′59		conjunction	9953 Apr 13 16:35	27° Y 12'09	3°39'49
retrograde	9946 Jul 11 02:23	14° Y 19'43	20 70015 111	minimum elong	9953 Apr 13 16:44	27° Y °12'10	3°39'39
retrograde min. Earth dist.	9946 Jul 11 02:23 9946 Sep 26 09:59	14° Υ 19'43 13° Υ 00'48	29.79815 AU	minimum elong max. Earth dist.	9953 Apr 13 16:44 9953 Apr 15 03:04	27° Υ 12'10 27° Υ 15'15	
retrograde min. Earth dist. opposition	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40	14° Υ 19'43 13° Υ 00'48 12° Υ 59'29	29.79815 AU 7°55'32	minimum elong max. Earth dist. morning rise	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03	27°Υ12'10 27°Υ15'15 27°Υ44'05	3°39'39
retrograde min. Earth dist. opposition direct	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23	14° Y 19'43 13° Y 00'48 12° Y 59'29 11° Y 37'31		minimum elong max. Earth dist. morning rise retrograde	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12	27°\bar{Y}\bar{12'\bar{10}}\\ 27°\bar{Y}\bar{15'\bar{15}}\\ 27°\bar{Y}\bar{44'\bar{05}}\\ 29°\bar{Y}\bar{32'\bar{53}}\\ \end{argma}	3°39'39 32.92558 AU
retrograde min. Earth dist. opposition	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40	14° Υ 19'43 13° Υ 00'48 12° Υ 59'29		minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14	3°39'39 32.92558 AU 31.02866 AU
retrograde min. Earth dist. opposition direct	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18	14° Y 19'43 13° Y 00'48 12° Y 59'29 11° Y 37'31 13° Y 37'15	7°55'32	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58	3°39'39 32.92558 AU
retrograde min. Earth dist. opposition direct evening set conjunction	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37	14° Y 19'43 13° Y 00'48 12° Y 59'29 11° Y 37'31 13° Y 37'15	7°55'32 7°08'24	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07	27°Υ12'10 27°Υ15'15 27°Υ44'05 29°Υ32'53 28°Υ17'14 28°Υ14'58 26°Υ55'48	3°39'39 32.92558 AU 31.02866 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 01 05:55	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51	7°55'32 7°08'24 7°08'19	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58	3°39'39 32.92558 AU 31.02866 AU
retrograde min. Earth dist. opposition direct evening set conjunction	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 01 05:55 9947 Apr 02 03:31	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52	7°55'32 7°08'24	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Mar 31 20:40	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08	3°39'39 32.92558 AU 31.02866 AU 3°35'38
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 01 05:55 9947 Apr 02 03:31 9947 Apr 14 21:54	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19	7°55'32 7°08'24 7°08'19	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Mar 31 20:40 9954 Apr 16 00:09	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 01 05:55 9947 Apr 02 03:31	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52	7°55'32 7°08'24 7°08'19	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Mar 31 20:40	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08	3°39'39 32.92558 AU 31.02866 AU 3°35'38
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11 9947 Sep 29 19:46	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y15'26	7°55'32 7°08'24 7°08'19 31.85638 AU 7°18'50	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Mar 31 20:40 9954 Apr 16 00:09 9954 Apr 16 00:17 9954 Apr 17 13:19	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'09 29°Y17'10 29°Y20'28	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 01 05:55 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y15'26	7°55'32 7°08'24 7°08'19 31.85638 AU	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Mar 31 20:40 9954 Apr 16 00:09 9954 Apr 16 00:17	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'09 29°Y17'10	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06 3°04'57
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11 9947 Sep 29 19:46	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y15'26	7°55'32 7°08'24 7°08'19 31.85638 AU 7°18'50	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Mar 31 20:40 9954 Apr 16 00:09 9954 Apr 16 00:17 9954 Apr 17 13:19	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'09 29°Y17'10 29°Y20'28	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06 3°04'57
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 01 05:55 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11 9947 Sep 29 19:46 9947 Sep 28 22:38	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y15'26 15°Y16'50	7°55'32 7°08'24 7°08'19 31.85638 AU 7°18'50	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Apr 16 00:09 9954 Apr 16 00:17 9954 Apr 17 13:19 9954 May 01 02:23	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'09 29°Y17'10 29°Y20'28 29°Y49'07	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06 3°04'57
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11 9947 Sep 29 19:46 9947 Sep 28 22:38 9947 Dec 18 23:16	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y15'26 15°Y16'50 13°Y53'49	7°55'32 7°08'24 7°08'19 31.85638 AU 7°18'50	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Apr 16 00:09 9954 Apr 16 00:17 9954 Apr 16 00:17 9954 Apr 17 13:19 9954 May 01 02:23 9954 May 06 09:33	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'10 29°Y17'10 29°Y20'28 29°Y49'07 0°8 1°836'45	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06 3°04'57
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retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11 9947 Sep 29 19:46 9947 Sep 28 22:38 9947 Dec 18 23:16 9948 Mar 19 17:07 9948 Apr 02 17:14 9948 Apr 02 17:31 9948 Apr 02 17:31 9948 Apr 03 16:56 9948 Apr 16 16:27 9948 Jul 14 23:31 9948 Oct 01 08:54 9949 Apr 05 04:09	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y16'50 13°Y53'49 15°Y51'50 16°Y22'49 16°Y22'50 16°Y25'01 16°Y25'01 17°Y31'11 17°Y29'33 16°Y08'18 18°Y04'41	7°55'32 7°08'24 7°08'19 31.85638 AU 7°18'50 29.94809 AU 6°33'59 6°33'55 32.01354 AU 30.10720 AU 6°41'51	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. opposition direct evening set conjunction minimum elong max. Earth dist. opposition	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Apr 16 00:09 9954 Apr 16 00:17 9954 Apr 17 13:19 9954 Apr 17 13:19 9954 May 01 02:23 9954 May 01 02:23 9954 Jul 27 21:10 9954 Oct 13 13:54 9954 Oct 13 13:54 9955 Oct 27 18:18 9955 Jan 03 18:01 9955 Apr 18 06:47 9955 Apr 18 06:53 9955 Apr 18 06:53 9955 Apr 19 20:26 9955 May 03 11:31 9955 Jul 30 03:27	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'09 29°Y17'10 29°Y20'28 29°Y49'07 0°8 1°836'45 0°821'30 0°819'12 30°RY 29°Y00'28 0°8 0°848'32 1°820'32 1°820'32 1°820'32 1°823'51 1°852'26 3°839'00	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06 3°04'57 33.12856 AU 31.23301 AU 2°58'42 2°30'36 2°30'24 33.33656 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	9946 Jul 11 02:23 9946 Sep 26 09:59 9946 Sep 27 05:40 9946 Dec 16 08:23 9947 Mar 18 12:18 9947 Apr 01 05:37 9947 Apr 02 03:31 9947 Apr 14 21:54 9947 Jul 13 12:11 9947 Sep 29 19:46 9947 Sep 28 22:38 9947 Dec 18 23:16 9948 Mar 19 17:07 9948 Apr 02 17:14 9948 Apr 02 17:31 9948 Apr 02 17:31 9948 Apr 03 16:56 9948 Apr 16 16:27 9948 Jul 14 23:31 9948 Sep 30 08:16 9948 Oct 01 08:54 9949 Mar 21 21:46	14°Y19'43 13°Y00'48 12°Y59'29 11°Y37'31 13°Y37'15 14°Y07'49 14°Y07'51 14°Y09'52 14°Y38'19 16°Y35'25 15°Y16'50 13°Y53'49 15°Y51'50 16°Y22'49 16°Y22'49 16°Y22'50 16°Y25'01 16°Y25'01 17°Y31'11 17°Y29'33 16°Y08'18 18°Y36'01 18°Y36'01 18°Y36'01	7°55'32 7°08'24 7°08'19 31.85638 AU 7°18'50 29.94809 AU 6°33'59 6°33'55 32.01354 AU 30.10720 AU 6°41'51	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. opposition direct evening set conjunction minimum elong max. Earth dist. opposition	9953 Apr 13 16:44 9953 Apr 15 03:04 9953 Apr 28 16:03 9953 Jul 25 17:12 9953 Oct 11 05:20 9953 Oct 12 16:47 9954 Jan 01 07:07 9954 Apr 16 00:09 9954 Apr 16 00:17 9954 Apr 17 13:19 9954 Apr 17 13:19 9954 May 01 02:23 9954 May 06 09:33 9954 Jul 27 21:10 9954 Oct 13 13:54 9954 Oct 15 02:05 9954 Oct 27 18:18 9955 Jan 03 18:01 9955 Apr 18 06:47 9955 Apr 18 06:53 9955 Apr 18 06:53 9955 Apr 19 20:26 9955 May 03 11:31	27°Y12'10 27°Y15'15 27°Y44'05 29°Y32'53 28°Y17'14 28°Y14'58 26°Y55'48 28°Y45'08 29°Y17'09 29°Y17'10 29°Y20'28 29°Y49'07 0°8 1°836'45 0°821'30 0°819'12 30°RY 29°Y00'28 0°8 0°848'32 1°820'32 1°820'32 1°820'32 1°823'51 1°852'26 3°839'00	3°39'39 32.92558 AU 31.02866 AU 3°35'38 3°05'06 3°04'57 33.12856 AU 31.23301 AU 2°58'42 2°30'36 2°30'24 33.33656 AU 31.44234 AU

J:4	0056 1 06 02:40	10902126			00/2 M 01 10-49	1.40 4 5 5 1 5 0	1921/26
direct	9956 Jan 06 02:40	1° 8 03'26		conjunction	9962 May 01 10:48	14° 8 55'58	
evening set	9956 Apr 04 05:24	2° 8 50'20		minimum elong	9962 May 01 10:44	14° 8 55'58	
				max. Earth dist.	9962 May 03 10:39		34.90876 AU
conjunction	9956 Apr 19 12:59		1°56'21		9962 May 03 11:05	15° 8	
minimum elong	9956 Apr 19 13:04		1°56'09	morning rise	9962 May 16 17:41	15° 8 26'23	
max. Earth dist.	9956 Apr 21 04:58	3° 8 25'44 3	33.54896 AU	retrograde	9962 Aug 11 22:59	17° 8 06'33	
morning rise	9956 May 04 19:25	3° 8 54'03		min. Earth dist.	9962 Oct 29 01:42	_	33.02839 AU
retrograde	9956 Jul 31 07:53	5° 8 39'34		opposition	9962 Oct 31 03:19	15° 8 51'30	-1°42'59
min. Earth dist.	9956 Oct 17 03:16	4° 8 25'08 3	31.65609 AU		9962 Dec 08 20:56	15° ₹8	
opposition	9956 Oct 18 18:31	-	1°45'43	direct	9963 Jan 20 06:50	14° 8 35'44	
direct	9957 Jan 07 09:58	3° 8 04'43			9963 Mar 02 07:47	15° 8	
evening set	9957 Apr 06 09:34	4° 8 50'28		evening set	9963 Apr 18 05:58	16° 8 15'43	
						4.	
conjunction	9957 Apr 21 18:24	_	1°22'23	conjunction	9963 May 03 12:07	16° 8 45'50	
minimum elong	9957 Apr 21 18:27		1°22'10	minimum elong	9963 May 03 12:03	16° 8 45'50	
max. Earth dist.	9957 Apr 23 11:04	5° 8 25'46 3	33.76541 AU	max. Earth dist.	9963 May 05 14:26	_	35.15078 AU
morning rise	9957 May 07 02:10	5° 8 53'55		morning rise	9963 May 18 17:21	17° 8 15'54	
retrograde	9957 Aug 02 13:02	7° 8 38'24		retrograde	9963 Aug 13 22:23	18° 8 55'24	
min. Earth dist.	9957 Oct 19 08:06	6° 8 24'25 3		min. Earth dist.	9963 Oct 31 04:43	_	33.27295 AU
opposition	9957 Oct 21 01:37	-	1°09'46	opposition	9963 Nov 02 06:42	17° 8 40'42	-2°15'52
direct	9958 Jan 09 20:00	5° 8 04'14		direct	9964 Jan 22 10:44	16° 8 25'20	
evening set	9958 Apr 08 13:34	6° 8 48'53		evening set	9964 Apr 19 08:45	18° 8 04'35	
conjunction	9958 Apr 23 23:05		0°48'47	conjunction	9964 May 04 12:53	18° 8 34'19	
minimum elong	9958 Apr 23 23:07		0°48'34	minimum elong	9964 May 04 12:48	18° 8 34'18	
max. Earth dist.	9958 Apr 25 17:22	7° 8 24'06 3	33.98549 AU	max. Earth dist.	9964 May 06 15:39	_	35.39653 AU
morning rise	9958 May 09 07:38	7° 8 51'58		morning rise	9964 May 19 16:17	19° 8 04'00	
retrograde	9958 Aug 04 18:01	9° 8 35'29		retrograde	9964 Aug 14 23:38	20° 8 42'52	
min. Earth dist.	9958 Oct 21 13:41	8° 8 21'50 3	32.09554 AU	min. Earth dist.	9964 Nov 01 05:04	19° 8 31'40	33.52097 AU
opposition	9958 Oct 23 08:09	8° 8 19'12 (0°34'13	opposition	9964 Nov 03 09:10	19° 8 28'32	-2°48'08
direct	9959 Jan 12 04:05	7° 8 01'58		direct	9965 Jan 23 13:27	18° 8 13'34	
evening set	9959 Apr 10 17:14	8° 8 45'34		evening set	9965 Apr 21 11:22	19° 8 52'07	
conjunction	9959 Apr 26 03:06	-	0°15'35	conjunction	9965 May 06 13:09	20° 8 21'27	
minimum elong	9959 Apr 26 03:06	-	0°15'20	minimum elong	9965 May 06 13:02	20° 8 21'27	2°54'04
behind sun begin	9959 Apr 26 00:59	9° 8 16'45		max. Earth dist.	9965 May 08 17:31	_	35.64511 AU
behind sun end	9959 Apr 26 05:13	9° 8 17'06		morning rise	9965 May 21 14:15	20° 8 50'45	
max. Earth dist.	9959 Apr 27 22:58	9° 8 20'40 3	34.20962 AU	retrograde	9965 Aug 17 00:59	22° 8 29'02	
morning rise	9959 May 11 11:50	9° 8 48'12		min. Earth dist.	9965 Nov 03 06:46	21° 8 18'11	33.77171 AU
retrograde	9959 Aug 06 20:25	11° 8 30'47		opposition	9965 Nov 05 11:22	21° 8 15'03	-3°19'46
desc. node	9959 Oct 16 12:23	10° 8 28'12		direct	9966 Jan 25 14:34	20° 8 00'30	
min. Earth dist.	9959 Oct 23 17:53	10° 8 17'31 3	32.32156 AU	evening set	9966 Apr 23 13:45	21° 8 38'24	
opposition	9959 Oct 25 13:56	10° 8 14'48 -0	0°00'52				
direct	9960 Jan 14 13:14	8° 8 57'54		conjunction	9966 May 08 12:52	22° 8 07'18	-3°23'23
evening set	9960 Apr 11 20:42	10° 8 40'31		minimum elong	9966 May 08 12:45	22° 8 07'18	3°23'41
				max. Earth dist.	9966 May 10 18:10	22° 8 11'38	35.89587 AU
conjunction	9960 Apr 27 06:10	11° 8 11'36 -0	0°17'16	morning rise	9966 May 23 11:12	22° 8 36'10	
minimum elong	9960 Apr 27 06:09	11° 8 11'36 (0°17'30	retrograde	9966 Aug 18 23:30	24° 8 13'55	
max. Earth dist.	9960 Apr 29 03:05	11° 8 15'25 3	34.43799 AU	min. Earth dist.	9966 Nov 05 07:14	23° 8 03'29	34.02421 AU
morning rise	9960 May 12 14:51	11° 8 42'38		opposition	9966 Nov 07 12:55	23° 8 00'18	-3°50'45
retrograde	9960 Aug 07 22:20	13° 8 24'21		direct	9967 Jan 27 18:26	21° 8 46'09	
min. Earth dist.	9960 Oct 24 21:00	12° 8 11'29 3	32.55241 AU	evening set	9967 Apr 25 16:10	23° 8 23'27	
opposition	9960 Oct 26 19:06	12° 8 08'39 -0	0°35'27				
direct	9961 Jan 15 19:11	10° 8 52'07		conjunction	9967 May 10 12:03	23° 8 51'54	-3°52'25
evening set	9961 Apr 13 23:57	12° 8 33'47		minimum elong	9967 May 10 11:55	23° 8 51'53	3°52'45
C	•			max. Earth dist.	9967 May 12 17:38	23° 8 56'13	36.14790 AU
conjunction	9961 Apr 29 08:53	13° 8 04'35 -0	0°49'35	morning rise	9967 May 25 07:30	24° 8 20'20	
minimum elong	9961 Apr 29 08:51	13° 8 04'35 (retrograde	9967 Aug 20 22:53	25° 8 57'34	
max. Earth dist.	9961 May 01 08:15	13° 8 08'34 3		min. Earth dist.	9967 Nov 07 07:18		34.27803 AU
morning rise	9961 May 14 16:43	13° 8 35'19		opposition	9967 Nov 09 14:02	24° 8 44'17	
	9961 Jul 07 22:38	15° 8		direct	9968 Jan 29 20:33	23° 8 30'31	. 2. 0.
retrograde	9961 Aug 09 21:18	15° 8 16'14		evening set	9968 Apr 26 18:09	25° 8 07'15	
10110Brude	9961 Sep 12 18:59	15°R 8		Tronning Set	2200 rpi 20 10.09	25 00/15	
min. Earth dist.	9961 Oct 27 00:28	14° 8 03'44 3	32.78801 ATT	conjunction	9968 May 11 10:50	25° 8 35'15	-4°20'51
opposition	9961 Oct 28 23:28	14° 8 00'51 -1		minimum elong	9968 May 11 10:41	25° 8 35'14	
direct	9962 Jan 18 02:47	12° 8 44'41	1 0/ 50	max. Earth dist.	9968 May 13 17:51		36.40073 AU
evening set	9962 Apr 16 03:11	12 8 4441 14° 8 25'29		morning rise	9968 May 26 02:46	25 8 3939 26° 8 03'12	30.700/3 AU
ovening set	7702 ripi 10 05.11	17 02329		morning fise	7700 may 20 02.40	20 000 12	

retrograde	9968 Aug 21 19:12	27° 8 39'59		evening set	9975 May 10 02:31	6° Ⅲ 38'09	
min. Earth dist.	9968 Nov 08 07:57	26° 8 30'14 34.:	53222 ATT	evening set	7775 Way 10 02.31	0 113007	
opposition	9968 Nov 10 14:35	26° 8 27'01 -4°5		conjunction	9975 May 23 11:17	7° I 102'27	-7°22'18
direct	9969 Jan 31 00:04	25° 8 13'38	30 43	minimum elong	9975 May 23 11:04		7°22'40
evening set	9969 Apr 28 20:14	26° 8 49'49		max. Earth dist.	9975 May 25 22:55		38.17845 AU
evening set	7707 Apr 20 20.14	20 04747		morning rise	9975 Jun 05 19:37	7° Ⅱ 26'44	30.17043710
conjunction	9969 May 13 09:02	27° 8 17'19 -4°4	48'40	retrograde	9975 Sep 02 15:28	9° П 00'57	
minimum elong	9969 May 13 08:52	-	49'00	min. Earth dist.	9975 Nov 20 15:29		36.32385 AU
max. Earth dist.	9969 May 15 15:31	27° 8 21'39 36.0		opposition	9975 Nov 23 03:03	7° II 49'59	
morning rise	9969 May 27 21:27	27° 8 44'48	.02200710	direct	9976 Feb 12 17:43	6° Ⅱ 38'52	7 37 01
retrograde	9969 Aug 23 16:48	29° 8 21'07		evening set	9976 May 11 02:47	8° П 12'04	
min. Earth dist.	9969 Nov 10 06:13	28° 8 11'46 34.	78650 AU	evening set))//0 May 11 02.47	0 11204	
opposition	9969 Nov 12 14:25	28° 8 08'28 -5°1		conjunction	9976 May 24 05:51	8° Ⅱ 35'47	-7°15'38
direct	9970 Feb 02 00:28	26° 8 55'26	1) 42	minimum elong	9976 May 24 05:39	8° П 35'46	
evening set	9970 Apr 30 21:57	28° 8 31'05		max. Earth dist.	9976 May 26 17:08		38.43577 AU
evening set	9970 Apr 30 21.37	28 03103		morning rise	9976 Jun 06 08:49	8° П 59'30	36.43377 AU
conjunction	9970 May 15 06:51	28° 8 58'05 -5°1	15!52	retrograde	9976 Sep 03 08:36	10° Д 33'29	
	9970 May 15 06:41		16'12	min. Earth dist.	9976 Nov 21 10:10		26 50224 ATT
minimum elong	,	. •					36.58324 AU
max. Earth dist.	9970 May 17 14:51	29° 8 02'31 36.9	.90636 AU	opposition	9976 Nov 23 23:22	9° Ⅱ 22'49	-8°23'06
morning rise	9970 May 29 15:10	29° 8 25'05		direct	9977 Feb 13 15:12	8° Ⅱ 12'02	
	9970 Jun 18 12:14	0°П		evening set	9977 May 13 02:48	9° Ⅱ 44'57	
retrograde	9970 Aug 25 12:29	1° Ⅱ 00'59				🗕	
	9970 Nov 06 09:14	30°R 8		conjunction	9977 May 26 00:11	10° Ⅱ 08'05	
min. Earth dist.	9970 Nov 12 06:14	29° 8 51'51 35.0		minimum elong	9977 May 25 23:58	10° Ⅱ 08'04	
opposition	9970 Nov 14 13:58	29° 8 48'37 -5°4	48'00	max. Earth dist.	9977 May 28 12:53		38.69321 AU
direct	9971 Feb 04 00:56	28° 8 35'54		morning rise	9977 Jun 07 21:20	10° Ⅲ 31′13	
	9971 Apr 26 21:03	Π $\circ 0$		retrograde	9977 Sep 05 02:06	12° Ⅲ 05′01	
evening set	9971 May 02 23:19	0° Ⅱ 11'03		min. Earth dist.	9977 Nov 23 06:40	10° Ⅱ 58′03	36.84254 AU
				opposition	9977 Nov 25 19:20	10° Ⅲ 54'39	-8°46'30
conjunction	9971 May 17 03:51	0°耳37'32 -5°4	42'26	direct	9978 Feb 15 11:43	9° Ⅱ 44'12	
minimum elong	9971 May 17 03:40	0° 耳 37'31 5°²	42'47	evening set	9978 May 15 02:45	11° Ⅱ 16′50	
max. Earth dist.	9971 May 19 11:39	0° 耳 41'55 37.	.15917 AU				
morning rise	9971 May 31 07:59	1° 耳 04′00		conjunction	9978 May 27 18:07	11° Ⅲ 39′24	-8°30'23
retrograde	9971 Aug 27 10:08	2° Ⅱ 39'30		minimum elong	9978 May 27 17:54	11° Ⅲ 39′23	8°30'47
min. Earth dist.	9971 Nov 14 03:33	1° 耳 30'43 35	.29527 AU	max. Earth dist.	9978 May 30 06:35	11° Ⅱ 43'55	38.95030 AU
opposition	9971 Nov 16 12:48	1° Ⅱ 27'25 -6°1	15'36	morning rise	9978 Jun 09 09:16	12° Ⅱ 01'56	
direct	9972 Feb 05 23:10	0° Ⅱ 15′00		retrograde	9978 Sep 06 20:37	13° Ⅱ 35'34	
evening set	9972 May 04 00:30	1° Ⅱ 49'41		min. Earth dist.	9978 Nov 25 01:14	12° Ⅲ 28'56	37.10109 AU
Č	,			opposition	9978 Nov 27 14:53	12° Ⅲ 25′29	-9°09'13
conjunction	9972 May 18 00:26	2° Ⅱ 15'38 -6°0	08'22	direct	9979 Feb 17 06:40	11° Ⅱ 15′22	
minimum elong	9972 May 18 00:15	2° I 15'37 6°0		evening set	9979 May 17 02:25	12° Ⅱ 47'46	
max. Earth dist.	9972 May 20 09:22	2° П 20'04 37.4			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
morning rise	9972 Jun 01 00:04	2° I I41'34		conjunction	9979 May 29 11:32	13° Ⅱ 09'43	-8°51'49
retrograde	9972 Aug 28 07:03	4° Ⅱ 16'42		minimum elong	9979 May 29 11:18	13° Ⅱ 09'42	
min. Earth dist.	9972 Nov 15 01:38	3° П 08'11 35.:	55069 AU	max. Earth dist.	9979 Jun 01 00:17		39.20620 AU
opposition	9972 Nov 17 11:04	3° П 04'53 -6°4		morning rise	9979 Jun 10 20:39	13° Ⅲ 31'41	39.20020710
direct	9973 Feb 06 20:31	1° П 52'47	1231	retrograde	9979 Sep 08 15:25	15° I 05'09	
evening set	9973 May 06 01:25	3° П 27'02		min. Earth dist.	9979 Nov 26 20:40		37.35837 AU
evening set	7775 Way 00 01.25	3 1127 02		opposition	9979 Nov 29 10:10	13° ∏ 55'21	
conjunction	9973 May 19 20:36	3° П 52'27 -6°3	33'40	direct	9980 Feb 19 01:05	13 П 3521 12° П 45'33) JI 10
minimum elong	9973 May 19 20:24	3° П 52'26 6°3		evening set	9980 May 18 02:01	12 Ⅱ 43 33 14° Ⅱ 17'43	
max. Earth dist.	9973 May 19 20.24 9973 May 22 06:25	3° Ц 56'55 37.		evening set	7700 Iviay 10 U2.U1	17 11/43	
		4° Ⅱ 17'50	.00030 AU	agniumation	0090 May 20, 04:52	14° Ⅱ 39'05	0012120
morning rise	9973 Jun 02 15:19	5° П 52'38		conjunction	9980 May 30 04:52		
retrograde	9973 Aug 30 02:21		00716 ATT	minimum elong	9980 May 30 04:39	14° Ⅱ 39'04	
min. Earth dist.	9973 Nov 16 22:25	4° П 44'25 35.3		max. Earth dist.	9980 Jun 01 18:08		39.46049 AU
opposition	9973 Nov 19 08:49	4° Ⅱ 41'05 -7°(08'43	morning rise	9980 Jun 11 07:28	15° Ⅱ 00'27	
direct	9974 Feb 08 20:49	3° Ⅱ 29'18		retrograde	9980 Sep 09 08:02	16° Ⅱ 33'46	27 (1254 137
evening set	9974 May 08 02:07	5° Ⅱ 03'10		min. Earth dist.	9980 Nov 27 15:34		37.61354 AU
	007434 21 1122	50 T 20101	50110	opposition	9980 Nov 30 04:46	15° Ⅱ 24'14	-9~52'40
conjunction	9974 May 21 16:02	5° Ⅱ 28'01 -6°5		direct	9981 Feb 19 21:08	14° Ⅱ 14'43	
minimum elong	9974 May 21 15:50	5°Ⅱ28'00 6°5		evening set	9981 May 20 01:36	15° Ⅱ 46'43	
max. Earth dist.	9974 May 24 02:04	5° Ⅲ 32′28 37.9	.92188 AU	_			
morning rise	9974 Jun 04 05:49	5° Ⅱ 52'52		conjunction	9981 May 31 21:43	16° Ⅱ 07'28	
retrograde	9974 Aug 31 22:24	7° Ⅲ 27'21		minimum elong	9981 May 31 21:29	16° Ⅱ 07'27	
min. Earth dist.	9974 Nov 18 18:28	6° Ⅱ 19'29 36.0		max. Earth dist.	9981 Jun 03 09:58		39.71243 AU
opposition	9974 Nov 21 06:10	6° Ⅱ 16'05 -7°3	34'13	morning rise	9981 Jun 12 17:54	16° Ⅲ 28'14	
direct	9975 Feb 10 18:47	5° Ⅱ 04'38		retrograde	9981 Sep 11 01:28	18° Ⅱ 01'24	

			(-),		, p8
retrograde	9994 Sep 28 15:03	5°\$40'38	minimum elong	10001 Jun 27 00:29	12°537'34 14°19'19
min. Earth dist.	9994 Dec 17 23:10	4°€37'34 40.99830 AU	max. Earth dist.	10001 Jun 29 12:06	12°5641'30 44.34056 AU
opposition	9994 Dec 20 11:30	4°934'25 -13°47'01	morning rise	10001 Jul 01 15:02	12° © 44'52
direct	9995 Mar 12 10:05	3°528'33	retrograde	10001 Oct 06 21:34	14° © 19'43
evening set	9995 Jun 12 23:13	5° © 00'01	min. Earth dist.	10001 Dec 26 16:42	13° © 17'48 42.50952 AU
v , v	7777		opposition	10001 Dec 29 03:39	13° © 14'48 -15°03'42
conjunction	9995 Jun 20 04:34	5°511'46 -13°14'55	direct	10002 Mar 21 05:39	12°510'23
minimum elong	9995 Jun 20 04:25	5° © 11'45 13°15'21	evening set	10002 Jun 24 09:25	13° © 43'21
max. Earth dist.	9995 Jun 22 16:27	5°\$15'50 43.05512 AU	evening sec	100023411 21 09.23	15 3 15 21
morning rise	9995 Jun 27 09:56	5°\$23'31	conjunction	10002 Jun 28 11:13	13° © 49'46 -14°27'52
retrograde	9995 Sep 30 01:53	6°\$56'59	minimum elong	10002 Jun 28 11:06	13°549'46 14°28'17
min. Earth dist.	9995 Dec 19 11:59	5°\$54'07 41.22120 AU	max. Earth dist.	10002 Jun 30 22:22	13°S53'40 44.54737 AU
opposition	9995 Dec 22 00:56	5°\$50'57 -13°59'30	morning rise	10002 Jul 02 12:55	13°956'12
direct	9996 Mar 13 01:13	4° © 45'17	retrograde	10002 Oct 08 08:31	15° © 31'29
evening set	9996 Jun 13 20:40	6°\$16'50	min. Earth dist.	10002 Dec 28 04:00	14°529'47 42.71614 AU
evening sec)))0 Jun 13 20.10	0 31030	opposition	10002 Dec 30 15:13	14°\$26'47 -15°12'40
conjunction	9996 Jun 20 16:36	6°\$27'53 -13°26'48	direct	10002 Dec 30 13:13 10003 Mar 22 17:20	13°S22'35
minimum elong	9996 Jun 20 16:26	6°\$27'52 13°27'13	evening set	10003 Jun 26 09:38	14° 9 56'02
max. Earth dist.	9996 Jun 23 04:28	6°931'56 43.27471 AU	evening set	10003 Juli 20 09.36	14 30002
morning rise	9996 Jun 27 12:33	6°938'57	conjunction	10003 Jun 29 21:28	15°501'31 -14°36'25
retrograde	9996 Sep 30 14:31	8° © 12'33	minimum elong	10003 Jun 29 21:21	15°S01'30 14°36'51
min. Earth dist.	9996 Dec 20 02:09	7°909'47 41.44117 AU	max. Earth dist.	10003 Jul 29 21:21 10003 Jul 02 07:39	15°S05'19 44.75102 AU
opposition	9996 Dec 20 02:09 9996 Dec 22 14:02	7°506'40 -14°11'29		10003 Jul 02 07.39 10003 Jul 03 09:12	15°S06'59
			morning rise		
direct	9997 Mar 14 15:07	6°901'11 7°932'52	retrograde min. Earth dist.	10003 Oct 09 22:00 10003 Dec 29 16:07	16°5042'48 15°5041'16 42.91945 AU
evening set	9997 Jun 15 18:19	1 932 32			
	0007 I 22 04-25	796542112 12020112	opposition	10004 Jan 01 02:39	15°538'18 -15°21'11
conjunction	9997 Jun 22 04:25	7°543'12 -13°38'12	direct	10004 Mar 23 01:52	14°534'21
minimum elong	9997 Jun 22 04:16	7°543'11 13°38'38	evening set	10004 Jun 27 12:04	16° © 08'25
max. Earth dist.	9997 Jun 24 16:22	7°547'14 43.49180 AU	. ,.	10004 1 20 07 50	1/05/12/50 1/04/4/22
morning rise	9997 Jun 28 14:26	7°953'33	conjunction	10004 Jun 30 07:50	16°S12'50 -14°44'33
retrograde	9997 Oct 02 03:10	9°527'19	minimum elong	10004 Jun 30 07:44	16°S12'49 14°44'57
min. Earth dist.	9997 Dec 21 14:56	8°524'42 41.65871 AU	C	10004 Jul 03 03:29	16°517'14
opposition	9997 Dec 24 02:52	8°521'37 -14°22'57	max. Earth dist.	10004 Jul 02 18:17	16°5516'38 44.95105 AU
direct	9998 Mar 16 03:16	7° © 16'19	retrograde	10004 Oct 10 08:05	17°953'41
evening set	9998 Jun 17 15:47	8° 5 48'09	min. Earth dist.	10004 Dec 30 04:29	16°S52'17 43.11859 AU
	0000 1 22 15 40	00057146 12040106	opposition	10005 Jan 01 13:40	16°549'24 -15°29'17
conjunction	9998 Jun 23 15:40	8°557'46 -13°49'06	direct	10005 Mar 24 12:41	15°545'39
minimum elong	9998 Jun 23 15:31	8°957'45 13°49'31	evening set	10005 Jun 29 18:33	17° 5 20'38
max. Earth dist.	9998 Jun 26 02:54	9°901'43 43.70674 AU		10005 1 1 01 17 55	170600140 14050117
morning rise	9998 Jun 29 15:35	9°507'23	conjunction	10005 Jul 01 17:55	17°523'42 -14°52'17
retrograde	9998 Oct 03 16:08	10°541'21	minimum elong	10005 Jul 01 17:49	17°523'42 14°52'42
min. Earth dist.	9998 Dec 23 03:13	9°538'56 41.87443 AU	morning rise	10005 Jul 03 17:08	17°526'46
opposition	9998 Dec 25 15:32	9°535'49 -14°33'53	max. Earth dist.	10005 Jul 04 02:35	17°527'23 45.14678 AU
direct	9999 Mar 17 14:13	8°530'44	retrograde	10005 Oct 11 17:33	19°504'08
evening set	9999 Jun 19 13:37	10°902'46	min. Earth dist.	10005 Dec 31 15:18	18°502'56 43.31326 AU
	0000 1 25 02 50	100611120 12050120	opposition	10006 Jan 03 00:38	18°500'03 -15°36'58
conjunction minimum elong	9999 Jun 25 02:58 9999 Jun 25 02:50	10°©11'38 -13°59'30 10°©11'38 13°59'56	direct	10006 Mar 25 23:22	16° © 56'30
J			:	10006 1-1 02 02.45	10062406 1405027
max. Earth dist.	9999 Jun 27 15:10 9999 Jun 30 16:16	10°©15'38 43.91996 AU 10°©20'30	conjunction minimum elong	10006 Jul 03 03:45 10006 Jul 03 03:40	18°934'06 -14°59'37 18°934'06 15°00'02
morning rise			C		
retrograde min. Earth dist.	9999 Oct 05 00:59	11°954'43 10°952'26 42.08824 AU	max. Earth dist.	10006 Jul 05 12:26 10006 Oct 13 01:11	18°537'46 45.33780 AU 20°514'08
	9999 Dec 24 16:25		retrograde min. Earth dist.	10000 Oct 13 01.11 10007 Jan 02 03:59	19°5513'00 43.50309 AU
opposition	9999 Dec 27 03:47	10°549'23 -14°44'19			
direct	10000 Mar 18 04:01	9°544'30	opposition	10007 Jan 04 11:31	19°5510'12 -15°44'14
evening set	10000 Jun 20 11:43	11° © 16'47	direct	10007 Mar 27 13:22	18° ഇ 06'50
conjunction	10000 Jun 25 13:54	11°524'53 -14°09'26	conjunction	10007 Int - 04 12:21	100673150 15006124
conjunction			,	10007 Jul 04 13:31	19°543'59 -15°06'34
minimum elong	10000 Jun 25 13:46	11°524'53 14°09'51	minimum elong	10007 Jul 04 13:25	19°543'59 15°06'59
max. Earth dist.	10000 Jun 28 00:54	11°528'48 44.13137 AU	max. Earth dist.	10007 Jul 06 21:03	19°547'34 45.52424 AU
morning rise	10000 Jun 30 16:03	11°532'58	retrograde	10007 Oct 14 10:58	21°523'35
retrograde	10000 Oct 05 10:47	13°507'29	min. Earth dist.	10008 Jan 03 14:21	20°522'36 43.68834 AU
min. Earth dist.	10000 Dec 25 03:34 10000 Dec 27 15:46	12°505'26 42.30006 AU	opposition	10008 Jan 05 21:51	20°519'49 -15°51'08
opposition		12°902'21 -14°54'15	direct	10008 Mar 28 01:08	19° © 16'36
direct					
direct	10001 Mar 19 16:50	10°957'42	agniumatic		20.00352110 15012100
direct evening set			conjunction	10008 Jul 04 22:53	20°953'18 -15°13'08
	10001 Mar 19 16:50	10°957'42	conjunction minimum elong max. Earth dist.		20°\$53'18 -15°13'08 20°\$53'18 15°13'33 20°\$56'48 45.70632 AU

retrograde min. Earth dist. opposition direct	10008 Oct 14 22:29 10009 Jan 04 01:38 10009 Jan 06 08:09 10009 Mar 29 10:06	22°\$32'29 21°\$31'34 43.86966 AU 21°\$28'51 -15°57'37 20°\$25'48	retrograde min. Earth dist. opposition direct	10016 Oct 23 18:30 10017 Jan 13 08:54 10017 Jan 15 10:41 10017 Feb 05 05:10 10017 Apr 07 11:37	1°Ω26'10 0°Ω26'11 45.21336 AU 0°Ω23'45 -16°35'04 30°R© 29°©22'00
conjunction	10009 Jul 06 08:05	22° 5 02'03 -15°19'19		10017 Jun 05 09:01	$0^{\circ}\Omega$
minimum elong	10009 Jul 06 08:01	22° 5 02'02 15°19'43			
max. Earth dist.	10009 Jul 08 15:04	22° © 05'33 45.88485 AU	conjunction	10017 Jul 15 03:16	0°Ω55'13 -15°54'58
retrograde	10009 Oct 16 07:31	23° © 40'48	minimum elong	10017 Jul 15 03:16	0° Ω 55'13 15°55'20
min. Earth dist.	10010 Jan 05 12:14	22°540'00 44.04755 AU	max. Earth dist.	10017 Jul 17 05:20	0° Ω 58'19 47.20957 AU
opposition	10010 Jan 07 18:08	22°537'19 -16°03'42	retrograde	10017 Oct 25 00:33	2° Q 31'08
direct	10010 Mar 30 19:48	21° © 34'25	min. Earth dist.	10018 Jan 14 17:24	1° Ω 31'17 45.36467 AU
. ,.	10010 1 1 07 17 00	220610114 15025106	opposition	10018 Jan 16 19:13	1° Ω 28'51 -16°38'07
conjunction	10010 Jul 07 17:00 10010 Jul 07 16:57	23°©10'14 -15°25'06 23°©10'14 15°25'31	direct	10018 Apr 08 21:15	0° Ω 27'15
minimum elong max. Earth dist.	10010 Jul 07 16.37 10010 Jul 09 22:34	23°S13'38 46.06043 AU	conjunction	10018 Jul 16 11:07	2°Ω00'07 -15°57'52
retrograde	10010 Jul 09 22:34 10010 Oct 17 16:39	24°9548'35	minimum elong	10018 Jul 16 11:07	2°Ω00'07 15°58'15
min. Earth dist.	10010 Get 17 10:39 10011 Jan 06 21:40	23°\$47'56 44.22280 AU	max. Earth dist.	10018 Jul 18 12:15	2°Ω03'09 47.35782 AU
opposition	10011 Jan 09 03:56	23°\$45'15 -16°09'21	retrograde	10018 Oct 26 09:10	3°Ω35'42
direct	10011 Apr 01 03:33	22°\$42'30	min. Earth dist.	10019 Jan 16 03:43	2°Ω35'53 45.51099 AU
			opposition	10019 Jan 18 03:45	2°Ω33'33 -16°40'50
conjunction	10011 Jul 09 01:46	24°\$17'55 -15°30'30	direct	10019 Apr 10 06:47	1° £ 32'04
minimum elong	10011 Jul 09 01:43	24°9517'55 15°30'53		1	
max. Earth dist.	10011 Jul 11 07:56	24°521'20 46.23342 AU	conjunction	10019 Jul 17 18:52	3° Ω 04'35 -16°00'27
retrograde	10011 Oct 18 23:33	25°\$55'53	minimum elong	10019 Jul 17 18:54	3° Ω 04'35 16°00'50
min. Earth dist.	10012 Jan 08 08:42	24°955'18 44.39542 AU	max. Earth dist.	10019 Jul 19 19:38	3° Ω 07'35 47.50122 AU
opposition	10012 Jan 10 13:35	24°952'41 -16°14'37	retrograde	10019 Oct 27 16:49	4° Ω 39'50
direct	10012 Apr 01 14:02	23° 9 50'06	min. Earth dist.	10020 Jan 17 12:29	3° Ω 40'06 45.65229 AU
			opposition	10020 Jan 19 11:56	3° Ω 37'47 -16°43'15
conjunction	10012 Jul 09 10:25	25°\$25'07 -15°35'30	direct	10020 Apr 10 15:57	2° Ω 36′25
minimum elong	10012 Jul 09 10:23	25°\$25'07 15°35'54			
max. Earth dist.	10012 Jul 11 15:45	25°\$28'29 46.40398 AU	conjunction	10020 Jul 18 02:19	4°Ω08'35 -16°02'44
retrograde	10012 Oct 19 06:17	27° © 02'43	minimum elong	10020 Jul 18 02:19	4° Ω 08'35 16°03'07
min. Earth dist.	10013 Jan 08 17:19	26°502'19 44.56542 AU	max. Earth dist.	10020 Jul 20 01:11	4°Ω11'27 47.63990 AU
opposition	10013 Jan 10 22:45	25°\$59'40 -16°19'28	retrograde	10020 Oct 28 02:25	5° Ω 43'30
direct	10013 Apr 03 01:47	24° © 57'15	min. Earth dist.	10021 Jan 17 20:56	4°Ω43'50 45.78936 AU
	10013 Jul 10 18:48	260621152 15040106	opposition	10021 Jan 19 19:50	4° Ω 41'34 -16°45'20
conjunction minimum elong	10013 Jul 10 18:48 10013 Jul 10 18:46	26°\$31'53 -15°40'06 26°\$31'53 15°40'30	direct	10021 Apr 11 21:10	3° Ω 40′18
max. Earth dist.	10013 Jul 10 18:40 10013 Jul 12 23:33	26°S35'12 46.57184 AU	conjunction	10021 Jul 19 09:40	5° Ω 12'08 -16°04'42
retrograde	10013 Jul 12 25:33 10013 Oct 20 16:49	28°509'08	minimum elong	10021 Jul 19 09:43	5°Ω12'08 16°05'04
min. Earth dist.	10014 Jan 10 03:39	27°508'50 44.73270 AU	max. Earth dist.	10021 Jul 21 08:59	5°Ω15'01 47.77469 AU
opposition	10014 Jan 12 08:05	27°\$06'15 -16°23'55	retrograde	10021 Oct 29 08:55	6°Ω46'44
direct	10014 Apr 04 11:24	26°\$04'00	min. Earth dist.	10022 Jan 19 06:16	5° Ω 47'05 45.92275 AU
	•		opposition	10022 Jan 21 03:44	5° Ω 44'53 -16°47'06
conjunction	10014 Jul 12 03:04	27°\$38'16 -15°44'21	direct	10022 Apr 13 05:00	4° Ω 43'44
minimum elong	10014 Jul 12 03:03	27°\$38'16 15°44'45			
max. Earth dist.	10014 Jul 14 08:06	27°5541'35 46.73691 AU	conjunction	10022 Jul 20 16:41	6° Ω 15'15 -16°06'21
retrograde	10014 Oct 22 02:40	29°515'10	minimum elong	10022 Jul 20 16:43	6° Ω 15'15 16°06'43
min. Earth dist.	10015 Jan 11 13:19	28°514'59 44.89674 AU	max. Earth dist.	10022 Jul 22 14:50	6° Ω 18'04 47.90629 AU
opposition	10015 Jan 13 17:08	28°9512'27 -16°28'00	retrograde	10022 Oct 30 13:47	7° Ω 49'33
direct	10015 Apr 05 19:27	27° © 10'22	min. Earth dist.	10023 Jan 20 13:21	6°Ω50'02 46.05315 AU
	10015 7 1 10 11 11	2000 4 411 6 4 50 4011 2	opposition	10023 Jan 22 11:22	6° Ω 47'48 -16°48'31
conjunction	10015 Jul 13 11:11	28°544'16 -15°48'13	direct	10023 Apr 14 13:30	5° Ω 46'46
minimum elong max. Earth dist.	10015 Jul 13 11:11 10015 Jul 15 14:39	28°9044'16 15°48'36 28°9047'29 46.89858 AU	agniumation	10023 Jul 21 23:41	7° Ω 18'00 -16°07'40
max. Earm dist.	10015 Jul 13 14.39 10015 Sep 09 17:59	0°Ω	conjunction minimum elong	10023 Jul 21 23:45	7°Ω18'00 -16'07'40' 7°Ω18'00 16'08'02
retrograde	10015 Sep 09 17.39 10015 Oct 23 12:46	0° Ω 20'51	max. Earth dist.	10023 Jul 21 23:43 10023 Jul 23 21:28	7°Ω20'46 48.03499 AU
retrograde	10015 Dec 07 04:14	30°Rூ	retrograde	10023 Jul 23 21:28 10023 Oct 31 20:34	8° Ω 52'01
min. Earth dist.	10016 Jan 12 22:18	29°520'48 45.05723 AU	min. Earth dist.	10024 Jan 21 22:13	7°Ω52'33 46.18082 AU
opposition	10016 Jan 15 01:55	29°S18'17 -16°31'42	opposition	10024 Jan 23 18:50	7°Ω50'23 -16°49'36
direct	10016 Apr 06 02:03	28°S16'22	direct	10024 Apr 14 23:04	6° Ω 49'29
	r			r	
conjunction	10016 Jul 13 19:21	29°5649'56 -15°51'45	conjunction	10024 Jul 22 06:39	8° Ω 20'25 -16°08'39
minimum elong	10016 Jul 13 19:20	29°549'56 15°52'09	minimum elong	10024 Jul 22 06:42	8° Ω 20'26 16°09'00
max. Earth dist.	10016 Jul 15 22:59	29°553'08 47.05631 AU	max. Earth dist.	10024 Jul 24 04:23	8° Ω 23'12 48.16118 AU
	10016 Jul 20 13:50	$\mathfrak{O}^{\circ}\mathfrak{O}$	retrograde	10024 Nov 01 04:46	9° Ω 54'11

min. Earth dist.	10025 Jan 22 05:35	8°Ω54'50 46.30573 A		10032 Aug 01 00:41	16° Ω 34'19 49.04031 AU
opposition	10025 Jan 24 02:09	8° Ω 52'42 -16°50'20	retrograde	10032 Nov 09 11:57	18° Ω 03'56
direct	10025 Apr 16 06:47	7° Ω 51'55	min. Earth dist.	10033 Jan 30 19:18	17° Ω 05'09 47.16723 AU
	10005 1 1 00 10 10	00.00000	opposition	10033 Feb 01 09:02	17° Ω 03'22 -16°45'30
conjunction	10025 Jul 23 13:13	9° \O22 '36 -16°09'19	direct	10033 Apr 24 08:18	16° Ω 03'32
minimum elong	10025 Jul 23 13:17	9° \O 22'36 16°09'40	rr : .:	10022 1 1 21 16 21	170 022117 17004110
max. Earth dist.	10025 Jul 25 09:37 10025 Nov 02 14:25	9° Ω 25'16 48.28461 A 10° Ω 56'06	,	10033 Jul 31 16:21 10033 Jul 31 16:26	17° Ω 32'16 -16°04'19 17° Ω 32'17 16°04'38
retrograde min. Earth dist.	10025 Nov 02 14.25 10026 Jan 23 13:16	9°Ω56'52 46.42791 A	minimum elong U max. Earth dist.	10033 Jul 31 16.26 10033 Aug 02 05:59	17°Ω34'30 49.12940 AU
opposition	10026 Jan 25 09:27	9°Ω54'45 -16°50'45	retrograde	10033 Aug 02 03.39 10033 Nov 10 14:58	19° Ω 03'55
direct	10026 Jan 23 09.27 10026 Apr 17 11:22	8°Ω54'08	min. Earth dist.	10033 Nov 10 14.38 10034 Feb 01 03:29	19° Ω 05'06 47.25420 AU
direct	10020 Apr 17 11.22	0 063400	opposition	10034 Feb 01 05:29	18° Ω 03'24 -16°43'40
conjunction	10026 Jul 24 19:56	10°Ω24'33 -16°09'39	direct	10034 Apr 25 17:23	17° Ω 03'38
minimum elong	10026 Jul 24 20:00	10°Ω24'34 16°10'00	direct	1005+11p1 25 17.25	17 000 30
max. Earth dist.	10026 Jul 26 16:46	$10^{\circ}\Omega$ 27'15 48.40518 A	U conjunction	10034 Aug 01 22:19	18°Ω32'08 -16°02'30
retrograde	10026 Nov 03 20:12	11° Ω 57'50	minimum elong	10034 Aug 01 22:27	18°Ω32'08 16°02'49
min. Earth dist.	10027 Jan 24 21:43	10°Ω58'40 46.54690 A	Č	10034 Aug 03 11:43	18° Ω 34'20 49.21494 AU
opposition	10027 Jan 26 16:36	10°Ω56'37 -16°50'50	retrograde	10034 Nov 11 19:40	20°Ω03'33
direct	10027 Apr 18 17:30	9° Ω 56'09	min. Earth dist.	10035 Feb 02 09:36	19°Ω04'48 47.33770 AU
	r		opposition	10035 Feb 03 21:35	19° Ω 03'06 -16°41'34
conjunction	10027 Jul 26 02:28	11° Ω 26'20 -16°09'42	direct	10035 Apr 27 01:56	18° Ω 03′23
minimum elong	10027 Jul 26 02:32	11° Ω 26'20 16°10'03		1	
max. Earth dist.	10027 Jul 27 21:50	11° Ω 28'56 48.52251 A	U conjunction	10035 Aug 03 04:02	19° Ω 31'40 -16°00'24
retrograde	10027 Nov 05 01:09	12° Ω 59'22	minimum elong	10035 Aug 03 04:09	19° Ω 31'40 16°00'43
min. Earth dist.	10028 Jan 26 04:36	12° Ω 00'21 46.66229 A	U max. Earth dist.	10035 Aug 04 15:55	19° Ω 33'46 49.29720 AU
opposition	10028 Jan 27 23:34	11° Ω 58'18 -16°50'37	retrograde	10035 Nov 13 03:59	21° Ω 02'53
direct	10028 Apr 18 23:58	10° Ω 57'58	min. Earth dist.	10036 Feb 03 16:29	20° Ω 04'09 47.41816 AU
			opposition	10036 Feb 05 03:41	20° Ω 02'29 -16°39'11
conjunction	10028 Jul 26 08:59	12° Ω 27'56 -16°09'27	direct	10036 Apr 27 06:57	19° Ω 02'51
minimum elong	10028 Jul 26 09:04	12° Ω 27'56 16°09'46			
max. Earth dist.	10028 Jul 28 03:43	12° Ω 30'30 48.63577 A	U conjunction	10036 Aug 03 09:50	20° Q 30'55 -15°58'02
retrograde	10028 Nov 05 07:07	14° Ω 00'46	minimum elong	10036 Aug 03 09:58	20° Ω 30'56 15°58'20
min. Earth dist.	10029 Jan 26 13:28	13° Ω 01'47 46.77338 A	U max. Earth dist.	10036 Aug 04 22:03	20° \Omega 33'03 49.37646 AU
opposition	10029 Jan 28 06:28	12° Ω 59'49 -16°50'08	retrograde	10036 Nov 13 10:01	22° Ω 01'56
direct	10029 Apr 20 08:05	11° Ω 59'38	min. Earth dist.	10037 Feb 03 23:25	21° Ω 03'14 47.49548 AU
		_	opposition	10037 Feb 05 09:35	21°Ω01'38 -16°36'30
conjunction	10029 Jul 27 15:33	13° Ω 29'21 -16°08'56	direct	10037 Apr 28 12:29	20° Ω 02'05
minimum elong	10029 Jul 27 15:38	13° Ω 29'21 16°09'16			
max. Earth dist.	10029 Jul 29 09:41	13°Ω31'52 48.74460 A	- J	10037 Aug 04 15:26	21°Ω29'58 -15°55'24
	10029 Oct 24 03:19	15° Ω	minimum elong	10037 Aug 04 15:33	21°Ω29'58 15°55'41
retrograde	10029 Nov 06 13:24	15° Ω 01'58	max. Earth dist.	10037 Aug 06 02:12	21° Q 32'00 49.45283 AU
i r at ra	10029 Nov 20 06:03	15°R Ω	retrograde	10037 Nov 14 15:33	23° \O 00'47
min. Earth dist.	10030 Jan 27 20:43	14°Ω03'05 46.87955 A		10038 Feb 05 05:04	22° Ω 02'11 47.56986 AU
opposition direct	10030 Jan 29 13:17	14° Ω 01'09 -16°49'21 13° Ω 01'04	opposition	10038 Feb 06 15:27 10038 Apr 29 16:04	22° Ω 00'34 -16°33'33 21° Ω 01'07
direct	10030 Apr 21 17:02	13 8601 04	direct	10038 Apr 29 10.04	21 860107
conjunction	10030 Jul 28 21:50	14° Ω 30'33 -16°08'09	conjunction	10038 Aug 05 20:54	22° Ω 28'50 -15°52'29
minimum elong	10030 Jul 28 21:56	14°Ω30'33 16°08'29	minimum elong	10038 Aug 05 20:34 10038 Aug 05 21:03	$22^{\circ}\Omega_{28'50}$ $-15^{\circ}52'47$ $-15^{\circ}52'47$
max. Earth dist.	10030 Jul 30 13:55	14°Ω32'56 48.84830 A	· ·	10038 Aug 07 07:22	22°Ω30'50 49.52602 AU
max. Earth dist.	10030 Aug 18 21:11	15°Ω	retrograde	10038 Nov 15 20:07	23°Ω59'30
retrograde	10030 Nov 07 23:36	16° Ω 02'56	opposition	10039 Feb 07 21:23	22° Ω 59'22 -16°30'19
min. Earth dist.	10031 Jan 29 04:41	15°Ω04'05 46.98054 A		10039 Feb 06 12:48	23°Ω00'54 47.64089 AU
opposition	10031 Jan 30 20:08	15° Ω 02'13 -16°48'19	direct	10039 Apr 30 22:07	22°Ω00'01
rr	10031 Feb 01 18:49	15°R Ω		r	
direct	10031 Apr 22 21:44	14° Ω 02'14	conjunction	10039 Aug 07 02:34	23° Ω 27'34 -15°49'18
	10031 Jul 07 14:42	15° Ω	minimum elong	10039 Aug 07 02:42	23° Ω 27'35 15°49'35
			max. Earth dist.	10039 Aug 08 12:31	23°Ω29'33 49.59582 AU
conjunction	10031 Jul 30 04:17	15° Ω 31'29 -16°07'08	retrograde	10039 Nov 17 00:35	24° Ω 58'06
minimum elong	10031 Jul 30 04:22	15° Ω 31'29 16°07'28	min. Earth dist.	10040 Feb 07 18:27	23° Ω 59'36 47.70808 AU
max. Earth dist.	10031 Jul 31 20:18	15° Ω 33'51 48.94677 A	U opposition	10040 Feb 09 02:56	23° Ω 58'04 -16°26'50
retrograde	10031 Nov 09 07:02	17° Ω 03'37	direct	10040 May 01 05:50	22° Ω 58'49
min. Earth dist.	10032 Jan 30 12:56	16° Ω 04'45 47.07621 A	U		
opposition	10032 Feb 01 02:38	16° Ω 02'58 -16°47'03	conjunction	10040 Aug 07 08:03	24° Ω 26'14 -15°45'53
direct	10032 Apr 23 02:55	15° Ω 03'04	minimum elong	10040 Aug 07 08:11	24° Ω 26'14 15°46'10
			max. Earth dist.	10040 Aug 08 16:09	24°Ω28'06 49.66145 AU
conjunction	10032 Jul 30 10:27	16° Ω 32'04 -16°05'51	retrograde	10040 Nov 17 09:09	25° Ω 56'38
minimum elong	10032 Jul 30 10:34	16° Ω 32'04 16°06'10	min. Earth dist.	10041 Feb 08 01:38	24° Ω 58'09 47.77094 AU

max. Earth dist.

2° Mp 11'58 50.01295 AU

10055 Aug 23 06:14

8° m 51'03 50.12382 AU

max. Earth dist.

10048 Aug 16 02:58

morning rise	10055 Aug 26 19:42	00 m, 55150	agniumation	10062 Aug 20 22:20	150 m 25122 12022147
morning rise	10055 Aug 26 18:42	8° M 55'52	conjunction	10062 Aug 28 22:30	15° Mp 25'23 -13°32'47
retrograde	10055 Dec 02 14:36	10° Mp 18'52	minimum elong	10062 Aug 28 22:43	15° m 25'23 13°32'56
opposition	10056 Feb 24 13:44	9° TQ 19'36 -14°58'4		10062 Aug 29 10:02	15° m 26'02 50.02403 AU
min. Earth dist.	10056 Feb 23 21:28	9° Mp 20'21 48.1884	Č	10062 Sep 04 17:34	15° m 34'38
direct	10056 May 16 14:34	8° Mp 21'06	retrograde	10062 Dec 09 04:49	16° m 53'57
evening set	10056 Aug 18 02:44	9° ™ 40′29	opposition	10063 Mar 02 22:19	15° m 54'45 -14°01'45
			min. Earth dist.	10063 Mar 02 11:05	15° TQ 55'16 48.06829 AU
conjunction	10056 Aug 22 18:01	9° m 46'49 -14°19'4	direct	10063 May 23 18:38	14° m 56'18
minimum elong	10056 Aug 22 18:14	9° Mp 46'50 14°20'0	00 evening set	10063 Aug 23 01:41	16° Mp 12'16
max. Earth dist.	10056 Aug 23 11:07	9° Mp 47'48 50.1207	78 AU		
morning rise	10056 Aug 27 09:56	9° m 53'11	conjunction	10063 Aug 30 03:22	16° Mp 21'53 -13°24'08
retrograde	10056 Dec 02 19:47	11° Mp 15'33	minimum elong	10063 Aug 30 03:34	16° m/21'54 13°24'15
opposition	10057 Feb 24 18:31	10° mp 16'17 -14°51'2	20 max. Earth dist.	10063 Aug 30 14:15	16° Tp 22'30 49.99696 AU
min. Earth dist.	10057 Feb 24 03:22	10° m 16'59 48.1818	34 AU morning rise	10063 Sep 06 06:01	16° m/31'33
direct	10057 May 17 20:13	9° m) 17'47	retrograde	10063 Dec 10 08:46	17° m/50'29
evening set	10057 Aug 18 22:00	10° m) 36'34	opposition	10064 Mar 03 02:53	16° m 51'19 -13°52'39
e vennig set	10057 Hug 10 22.00	10 11/20001	min. Earth dist.	10064 Mar 02 17:34	16° m 51'45 48.03820 AU
aamiumatiam	10057 Aug 23 22:42	100 m 42126 140121			15° M 52'54
conjunction	Č	10° Mp 43'26 -14°12'3		10064 May 23 22:19	•
minimum elong	10057 Aug 23 22:53	10° mp 43'26 14°12'4	Č	10064 Aug 22 23:23	17° m 08'29
max. Earth dist.	10057 Aug 24 14:06	10° Mp 44'18 50.1132			
morning rise	10057 Aug 29 00:03	10° m 50'20	conjunction	10064 Aug 30 08:17	17° Mp 18'31 -13°15'15
retrograde	10057 Dec 04 02:01	12° m) 12'05	minimum elong	10064 Aug 30 08:30	17° mp 18'32 13°15'24
opposition	10058 Feb 25 23:15	11° Mp 12'49 -14°43'4	max. Earth dist.	10064 Aug 30 18:39	17° Mp 19'06 49.96626 AU
min. Earth dist.	10058 Feb 25 08:25	11° Mp 13'31 48.1711	2 AU morning rise	10064 Sep 06 18:08	17° m 28'36
direct	10058 May 18 22:13	10° m) 14'18	retrograde	10064 Dec 10 10:21	18° ™ 47'09
evening set	10058 Aug 19 17:49	11° m 32'32	opposition	10065 Mar 04 07:27	17° mp 48'01 -13°43'19
			min. Earth dist.	10065 Mar 03 22:18	17° Mp 48'26 48.00405 AU
conjunction	10058 Aug 25 03:32	11° mp 39'55 -14°05'0)4 direct	10065 May 25 05:12	16° m 49'37
minimum elong	10058 Aug 25 03:45	11° m)39'55 14°05'1		10065 Aug 23 21:07	18° m 04'52
max. Earth dist.	10058 Aug 25 18:18	11° m) 40'45 50.1016	Č		
morning rise	10058 Aug 30 14:01	11° m)47'19	conjunction	10065 Aug 31 13:01	18° Mp 15'17 -13°06'10
retrograde	10058 Dec 05 05:52	13° Mp 08'31	minimum elong	10065 Aug 31 13:15	18° Mp 15'18 13°06'17
opposition	10059 Feb 27 03:55	12° Mp 09'14 -14°35'4	· ·	10065 Aug 31 21:18	18° To 15'46 49.93106 AU
* *		•			•
min. Earth dist.	10059 Feb 26 14:51	12° Mp 09'51 48.1566	Č	10065 Sep 08 06:05	18° Mp 25'47
direct	10059 May 20 02:22	11° m 10'43	retrograde	10065 Dec 11 16:21	19° m 43'58
evening set	10059 Aug 20 14:07	12° m 28'26	opposition	10066 Mar 05 12:14	18° Mp 44'51 -13°33'47
			min. Earth dist.	10066 Mar 05 04:49	18° m 45'12 47.96518 AU
conjunction	10059 Aug 26 08:23	12° Mp 36'18 -13° 57'2	21 direct	10066 May 26 10:53	17° ™ 46'27
minimum elong	10059 Aug 26 08:34	12° m/36'18 13°57'3	evening set	10066 Aug 24 19:17	19° ™ 01'22
max. Earth dist.	10059 Aug 26 22:42	12° Mp 37'06 50.0867	71 AU		
morning rise	10059 Sep 01 03:22	12° M)44'11	conjunction	10066 Sep 01 18:11	19° Mp 12'10 -12°56'53
retrograde	10059 Dec 06 08:10	14° m 04'51	minimum elong	10066 Sep 01 18:24	19° Mp 12'11 12°57'01
opposition	10060 Feb 28 08:27	13° Mp 05'36 -14°27'3	max. Earth dist.	10066 Sep 02 02:09	19° m 12'37 49.89078 AU
min. Earth dist.	10060 Feb 27 19:09	13° Mp 06'13 48.1390	01 AU morning rise	10066 Sep 09 18:05	19° m 23'03
direct	10060 May 20 08:25	12° Mp 07'05	retrograde	10066 Dec 12 22:09	20° m 40'54
evening set	10060 Aug 20 10:33	13° m 24'19	opposition	10067 Mar 06 16:53	19° m 41'46 -13°24'03
			min. Earth dist.	10067 Mar 06 10:44	19° mp 42'03 47.92085 AU
conjunction	10060 Aug 26 13:00	13° m/32'37 -13°49'2		10067 May 27 16:22	18° m/ 43'22
minimum elong	10060 Aug 26 13:13	13° m/32'38 13°49'3		10067 May 27 10:22 10067 Aug 25 17:46	19° m 57'55
max. Earth dist.	10060 Aug 27 01:46	13° m 33'21 50.0686	•	1000/ Mug 25 17.40	17 11/07 55
	Č	•		10067 9 02 22:14	200 m 0010 (120 1712 F
morning rise	10060 Sep 01 16:23	13° Mp 41'00	conjunction	10067 Sep 02 23:14	20° Mp 09'06 -12°47'25
retrograde	10060 Dec 06 13:59	15°Mp01'11	minimum elong	10067 Sep 02 23:27	20° m, 09'07 12°47'31
opposition	10061 Feb 28 13:06	14°Mp01'56 -14°19'1		10067 Sep 03 05:03	20° Mp 09'26 49.84509 AU
min. Earth dist.	10061 Feb 28 01:04	14° Mp 02'29 48.1184	Č	10067 Sep 11 05:53	20° m/20'23
direct	10061 May 21 13:51	13° m 03'26	retrograde	10067 Dec 14 05:50	21° m/37'51
evening set	10061 Aug 21 07:20	14° m 20'13	opposition	10068 Mar 06 21:32	20° m 38'42 -13°14'07
			min. Earth dist.	10068 Mar 06 16:09	20° Mp 38'57 47.87110 AU
conjunction	10061 Aug 27 17:50	14°m/28'58 -13°41'	13 direct	10068 May 27 18:03	19° m 40'16
minimum elong	10061 Aug 27 18:02	14° m/28'59 13°41'2	21 evening set	10068 Aug 25 16:06	20° m 54'28
max. Earth dist.	10061 Aug 28 06:54	14° m/29'43 50.0477	- C		
morning rise	10061 Sep 03 05:08	14° mp 37'47	conjunction	10068 Sep 03 04:11	21° Mp 06'02 -12°37'44
retrograde	10061 Dec 07 20:28	15° m 57'32	minimum elong	10068 Sep 03 04:24	21° m 06'03 12°37'51
opposition	10061 Dec 07 20.28 10062 Mar 01 17:43	14° m 58' 18 - 14° 10'3	•	10068 Sep 03 08:51	21° Mp 06'18 49.79393 AU
* *		••		-	•
min. Earth dist.	10062 Mar 01 06:20	14° Mp 58'50 48.0948		10068 Sep 11 17:29	21° Mp 17'40
direct	10062 May 22 18:12	13° m 59'49	retrograde	10068 Dec 14 10:47	22° Mp 34'47
evening set	10062 Aug 22 04:23	15°Mp 16'11	opposition	10069 Mar 08 02:16	21° m 35'36 -13°03'59
			min. Earth dist.	10069 Mar 07 22:56	21° m 35'45 47.81613 AU

Second 1000	1	100/03/4 20 21 22	200 m 27107	, 1	10075 D 21 10 54	200 m. 12107
conjunction 0.000 Sup 0 100 52 200	direct	10069 May 28 21:23	20° m/37'07	retrograde	10075 Dec 21 19:54	29° m 13'07
companion 0909 Sp 04 0913 279 075 S 127752 carract 10070 Jun 0600 Sp 04 1317 279 175 075 075 075 075 075 075 075 075 075 0	evening set	10069 Aug 26 14:48	21° III 50'59	**		•
minimar where						•
anx. Emil datar from the minimum change in the minimum change in continguistic entrograde (1009) Sept 10 4128 (229) 1475	3		•			*
	minimum elong	*	•	evening set	10076 Aug 31 08:58	28° Mp 26'51
emonaded proposition of 10070 Marc 90 6330 (2788) 2278 12753 8 min. Earth dist. 10070 Marc 90 6330 (2788) 2278 12753 8 min. Earth dist. 10070 Marc 90 6330 (2788) 2278 12753 8 min. Earth dist. 10070 Marc 90 6330 (2788) 2278 12753 8 min. Earth dist. 10070 Marc 90 6330 (2788) 2278 12752 8 min. Earth dist. 10070 Marc 90 6330 (2788) 2278 12752 1000 10070 Nov. 20 663 (1978) 1000 1000 Nov. 20 663 (1978) 10	max. Earth dist.	10069 Sep 04 13:17	22° Mg 03'09 49.73806 AU			
Deposition 10070 Mar 90 m/s 0 22 m/g 32 27 12°513 x 10076 Mar 90 m/s 0 22 m/g 32 28 22°613 x 2	morning rise	10069 Sep 13 04:51	22° Mp 14'55	conjunction	10076 Sep 10 20:47	28°Mp41'10 -11°12'31
nin. Earth dist. 10070 May 90 0330 2**983256 4775670 AU morning rise 10070 Navy 20 076 0**0 10°*0 evening set 10070 Aug 27 1328 2**984728 errogade 10070 Navy 20 06 10°*0 2**9838* 10°*0 10°*0 10°*0 10°*0 2**9838* 10°*0 10°*0 10°*0 10°*0 2**10°*2 2**10°*2 10°*0 10°*0 10°*0 10°*0 2**10°*2 2**10°*2 10°*0 10°*0 10°*0 10°*0 2**10°*0 2**10°*0 10°*0 <td>retrograde</td> <td>10069 Dec 15 12:48</td> <td>23° Mp 31'41</td> <td>minimum elong</td> <td>10076 Sep 10 21:00</td> <td>28°Mp41'11 11°12'33</td>	retrograde	10069 Dec 15 12:48	23° Mp 31'41	minimum elong	10076 Sep 10 21:00	28°Mp41'11 11°12'33
einem Horney Outpal 21°83748 returgade 10076 Nov. 20 66:13 0°A econjunction 10707 Aug 27 13:28 22°84728 returgade 10070 Nov. 20 66:10 0°B conjunction 10707 Sep. 56:14:19 22°85944 12°1772 opposition 10077 Mart 15:18:58 29°81073 11°241 minimum clong 10707 Sep. 16:14:19 22°85952 49°87951 cerum clong 10077 Mart 15:18:58 29°81073 11°241 minimum clong 10070 Sep. 16:17:22 22°83952 49°8734 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°17 10°18 23°83952 11°005 10°17 10°17 10°18 23°8352 11°005 10°17 10°20 29°8383 11°005 20°8352 11°005 10°07 10°07 10°07 10°08 11°005 10°07 10°08 11°005 10°08 11°005 10°08 11°005 10°08 11°005 10°08 11°005	opposition	10070 Mar 09 06:50	22° m/32'27 -12°53'38	max. Earth dist.	10076 Sep 10 18:46	28° Mp 41'03 49.24771 AU
Perming set 10070 Aug 27 13.28 22*8 42*8 22*8 47*28 Perming set 10077 Aug 15 15.50 29*8 10077 Aug 15 15.50 20*2 29*8 10077 Aug 15 15.50 29*8 10077 Aug 15 15.50 20*8 22*8 10077 Aug 15 15.50 22*8	min. Earth dist.	10070 Mar 09 03:30	22° Mg 32'36 47.75670 AU	morning rise	10076 Sep 21 10:00	28° m 55'34
Conjunction	direct	10070 May 30 02:41	21° m 33'54		10076 Nov 20 06:51	0∘ 亚
	evening set	10070 Aug 27 13:28	22° Mp 47'28	retrograde	10076 Dec 22 01:23	0° - 210′28
	Č	· ·		· ·	10077 Jan 23 05:04	30°R™
minimum elong 10070 Sep of 14-19 22*8 ps 49 12*1752	conjunction	10070 Sep. 05 14:07	22° m 59'44 -12°17'47	opposition		
ana. Earth dist 10070 Sep 10 2°mg 9752 Mg 10076 cerning set 10077 Sep 10 2°mg 2378 2°mg 2378 reforgade 10070 Nat 10 11.32 2°mg 2878 2°mg 2878 conjunction 10071 Nat 10 11.32 2°mg 2878 1°mg 2878 <td< td=""><td>•</td><td>*</td><td>•</td><td>**</td><td></td><td>•</td></td<>	•	*	•	**		•
morning rise 10070 Sep 1 1 16109 23*Pg 2706 24*Pg 28*3 10077 Sep 1 0 08.59 25*Pg 2718 10077 Sep 1 0 0718 10077 Sep 1 0 0778 10077 Sep 1	C	*	•			•
proposition 10071 Mar 10 1925 23*829*19 47.69338 AU		*				•
opposition imin. Earth dist. 10071 Mar 10 0951 23°mg 29715 24°44'94 ominimine along 10077 Sep 12 02 02 29°mg 3875 11075 Ag 10 direct 10071 May 31 08:56 22°mg 3979 amax Earth dist. 10077 Sep 21 02 02 29°mg 3822 49 1656 AU conjunction 10071 Nag 23 10:26 22°mg 3979 retrograde 10077 Sep 27 20:11 0°mg 32 10°mg 32 29°mg 382 49 1656 AU conjunction 10071 Sep 06 19:30 23°mg 6531 12°0728 retrograde 10070 Sep 02 20 19°mg 32 12°0729 max. Earth dist. 10071 Sep 16 032 28°mg 523 12°0729 min. Earth dist. 10078 Mar 17 00:42 0°40818 47.15697 AU retorgade 10071 Dec 17 22:09 5°mg 522 10°078 Mar 10 15:03 24°mg 522 10°078 Mar 10 15:03 24°mg 522 10°078 Sep 13 07:22 0°04015 -10°400 cerving set 10072 Agus 11 5:13 22°mg 27:11 10°557 10°078 Sep 13 07:22 0°04015 -10°400 direct 10072 Agus 11 5:13 22°mg 52:12 10°078 Sep 13 0°72 0°43515 -10°400	-	=	•	evening set	10077 Sep 01 08.39	29 11/23 30
minimum elong	-		•		10077 0 12 02 07	200 m-2012 5 11000152
direct 10071 May 31 08:56 22*mβ3039 max. Earth dist. 10077 Sep 12 22:13 29*mβ3822 49:16366 AU conjunction 10071 Sep 06 19:10 23*mβ4534 retrograde 10077 Sep 27 20:11 0°24 conjunction 10071 Sep 06 19:10 23*mβ6531 12*20728 retrograde 10071 Neg 08 19:30 23*mβ6531 12*20728 opposition 10078 Mar 12 00:42 0°240818 47.15697 AU max. Earth dist. 10071 Sep 16 03:22 23*mβ5631 21*20723 opposition 10078 Mar 12 00:42 0°240818 47.15697 AU minimum disg 10071 Dec 17 22:09 25*mβ2522 direct 10078 Mar 12 00:42 0°240818 47.15697 AU minimum clor 10072 Mar 10 16:03 24*mβ2601 -12*23*216 conjunction 10078 Mar 12 00:43 0°24071 direct 10072 Mar 10 16:03 24*mβ2601 -12*23*216 conjunction 10078 Sep 13 07:52 0°240615 -10*4990 cevening set 10072 Aug 2 11:30 24*mβ4718 max. Earth dist. 00078 Sep 07 00:23 0°24*m§3717 -11*5657 max. Earth dist. 00078 Sep 07 00:23 0°24*m§3717 -11*5657 max. Earth dist. 00078 Sep 07 00:24 0°24*m§3718 -11*5657 0°24*			•	•	•	•
Compunetion 10071 Num 28 12.32 23°m 43°54 moming rise 10077 Sep 22 20.53 29°m 531°M 20°m			*	Č	•	•
Conjunction 10071 Sep 06 19.16 23°M56'31 - 12°07'28 refrograde 10077 Sep 27 20.11 0°L 20'19.24 1°L 20'19.25 1		•	•		*	•
conjunction 10071 Sep 0 6 19-16 23*™p5631 1-2°0°728 refrograde 10077 Dec 23 09-82 1°∆0802 1°∆0803 - 11°22′29 max. Earth dist. 10071 Sep 0 6 19-30 23*™p5632 12°0°733 opposition 10078 Mar 17 0-04 0°∆0818 471,5097 AU morming rise 10071 Dec 1 7 2-209 25*™p5632 49 61047 AU min- Earth dist. 10078 Mar 10 16:03 24*™p2601 - 12*3216 clinet 10078 Mar 17 02-33 0°Д evening set 10072 Mar 10 16:03 24*™p2601 - 12*3216 cvening set 10078 Nag 17 02-33 0°Д evening set 10072 Aug 28 11:31 24*™p3601 - 12*32716 conjunction 10078 Sep 13 07-39 0°Д⇒3615 - 10*4900 conjunction 10072 Sep 07 00.27 24*™p3717 - 11*5657 max. Earth dist. 10078 Sep 13 02-27 0°Д⇒3615 - 10*4900 minimum clong 10072 Sep 07 00.27 24*™p3717 - 11*5701 morning rise 10078 Sep 13 02-27 0°Д⇒3557 - 40;07437 AU evening set 10072 Sep 10 10-35 24*™p3717 - 11*5701 morning rise 10078 Sep 13 02-27 0°Д⇒3557 - 40;07437 AU evening set 10072 Sep 10 10-35 24*™p3717 - 12*2113 morning rise	evening set	10071 Aug 28 12:23	23° Mp 43'54	morning rise	10077 Sep 22 20:53	29° m 53'19
minimum clong 10071 Sep 06 19.30 23° \$5.632 12°07'33 0 pposition 10078 Mar 16 20.43 0°\$\$\$ 0.6018 1.1°22.29 10071 Sep 06 13.22 24° \$1.6907 AU 10078 Mar 10 1079 Mar 10 10078 Mar 10 1007					10077 Sep 27 20:11	0∘ 亚
Markar Hard Hard Hard Hard Hard Hard Hard Ha	conjunction	10071 Sep 06 19:16	23° Mp 56'31 -12°07'28	retrograde	10077 Dec 23 09:42	1° ≏ 08'02
moming rise 10071 Sep 16 322 24*By914 cretorgade 10071 Dec 17 22.09 25*By25*22 direct 10078 Mar 16 15:03 24*By2601 -12*3216 cretorgade 10078 Mar 10 15:03 24*By2601 -12*3216 cretorgade 10078 Sep 02 09-04 0*22*117 cretorgade 10072 Mar 10 15:03 24*By2601 3*By2601 cretorgade 10078 Sep 02 09-04 0*22*117 cretorgade 10072 Mar 20 12 24*By317 -11*5657 max. Earth dist. 10072 Sep 07 00:12 24*By317 11*5701 max. Earth dist. 10072 Sep 07 00:27 24*By317 11*5701 max. Earth dist. 10072 Sep 07 00:27 24*By317 11*5701 max. Earth dist. 10072 Sep 07 00:27 24*By317 11*5701 max. Earth dist. 10072 Sep 07 00:27 24*By317 11*5701 moming rise 10072 Sep 16 14:24 25*By0620 moming rise 10073 Sep 18 10:29 25*By2642 47:5657 AU evening set 10073 Mar 18 01:39 11*0007 Sep 18 0:39 11*0007 Sep	minimum elong	10071 Sep 06 19:30	23° Mp 56'32 12°07'33	opposition	10078 Mar 16 20:43	0° £ 08'30 -11°22'29
Periograde 10071 Dec 17 22.09 25°By252 10078 Aug 17 02.33 0°By170 17 02.34 17 02.34 02.34 02	max. Earth dist.	10071 Sep 06 21:31	23° Mp 56'38 49.61407 AU	min. Earth dist.	10078 Mar 17 00:42	0° 2 08'18 47.15697 AU
Periograde 10071 Dec 17 22.09 25°By252 10078 Aug 17 02.33 0°By170 17 02.34 17 02.34 02.34 02	morning rise	10071 Sep 16 03:22	24° Mp 09'14		10078 Mar 24 10:11	30°R Mp
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conjunction 10074 Sep 09 10:23 26° m/46'57 -11°35'11 max. Earth dist. 10080 Sep 14 10:31 2° \(\toldot\told	evening set	10074 Aug 30 09.32	20 IIJ 33 18	·	•	
minimum elong		100510 00 10 22	0.00 4.055 4100.5111	•		
max. Earth dist. 10074 Sep 09 10:09 26° m/46'56 49.40387 AU retrograde 10080 Dec 26 00:51 4° £01'54 morning rise 10074 Sep 19 12:15 27° m/00'41 opposition 10081 Mar 19 11:51 3° £02'11 -10° 44'38 retrograde 10074 Dec 20 14:50 28° m/16'00 min. Earth dist. 10081 Mar 19 20:10 3° £01'48 46.86150 AU opposition 10075 Mar 14 06:08 27° m/16'32 -11° 58'25 direct 10081 Jun 09 06:24 2° £03'06 min. Earth dist. 10075 Mar 14 06:49 27° m/16'30 47.40762 AU evening set 10081 Sep 04 10:26 3° £14'17 direct 10075 Jun 04 02:04 26° m/17'45 evening set 10075 Aug 31 09:23 27° m/29'59 conjunction 10081 Sep 16 00:29 3° £030'10 -10° 12'12 minimum elong 10075 Sep 10 15:31 27° m/43'58 -11° 23'58 max. Earth dist. 10081 Sep 16 00:41 3° £030'10 10° 12'13 conjunction 10075 Sep 10 15:44 27° m/43'58 11° 24'02 morning rise 10081 Sep 27 16:05 3° £046'09 max. Earth dist. 10075 Sep 10 13:24 27° m/43'58 49.32762 AU retrograde 10081 Dec 27 05:35 5° £000'09		•	•			
morning rise 10074 Sep 19 12:15 27° 1000'41 opposition 10081 Mar 19 11:51 3° 202'11 -10° 44'38 retrograde 10074 Dec 20 14:50 28° 1016'00 min. Earth dist. 10081 Mar 19 20:10 3° 201'48 46.86150 AU opposition 10075 Mar 14 06:08 27° 1016'32 -11° 58'25 direct 10081 Jun 09 06:24 2° 203'06 min. Earth dist. 10075 Mar 14 06:49 27° 1016'30 47.40762 AU evening set 10081 Sep 04 10:26 3° 214'17 direct 10075 Jun 04 02:04 26° 1017'45 evening set 10075 Aug 31 09:23 27° 1029'59 conjunction 10081 Sep 16 00:29 3° 203'10 10° 12'12 minimum elong 10075 Sep 10 15:31 27° 1043'58 -11° 23'58 max. Earth dist. 10081 Sep 16 00:41 3° 203'10 10° 12'13 conjunction 10075 Sep 10 15:44 27° 1043'58 11° 24'02 morning rise 10081 Sep 27 16:05 3° 2046'09 max. Earth dist. 10075 Sep 10 13:24 27° 1043'58 49.32762 AU retrograde 10081 Dec 27 05:35 5° 200'09	_	*	•	_	-	
retrograde 10074 Dec 20 14:50 28° m 16'00 min. Earth dist. 10081 Mar 19 20:10 3° \(\omega\) 14:50 46.86150 AU opposition 10075 Mar 14 06:08 27° m 16'32 -11°58'25 direct 10081 Jun 09 06:24 2° \(\omega\) 00:24 2° \(\omega\) 00:48 46.86150 AU opposition 10075 Mar 14 06:08 27° m 16'32 47.40762 AU evening set 10081 Sep 04 10:26 3° \(\omega\) 14:17 direct 10075 Jun 04 02:04 26° m 17'45 evening set 10075 Aug 31 09:23 27° m 29'59 conjunction 10081 Sep 16 00:29 3° \(\omega\) 3° \(\omega\) 30'10 -10° 12'12 minimum elong 10081 Sep 16 00:41 3° \(\omega\) 30'10 10° 12'13 conjunction 10075 Sep 10 15:31 27° m 43'58 -11° 23'58 max. Earth dist. 10081 Sep 15 15:58 3° \(\omega\) 29'40 48.77555 AU minimum elong 10075 Sep 10 13:24 27° m 43'58 11° 24'02 morning rise 10081 Sep 27 16:05 3° \(\omega\) 46'09 max. Earth dist. 10075 Sep 10 13:24 27° m 43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° \(\omega\) 00'09	max. Earth dist.	10074 Sep 09 10:09	26° Mp 46'56 49.40387 AU	retrograde	10080 Dec 26 00:51	4° £ 01'54
opposition 10075 Mar 14 06:08 27° 1016'32 -11°58'25 direct 10081 Jun 09 06:24 2° 103'06 min. Earth dist. 10075 Mar 14 06:49 27° 1016'30 47.40762 AU evening set 10081 Sep 04 10:26 3° 14'17 direct 10075 Jun 04 02:04 26° 1017'45 evening set 10075 Aug 31 09:23 27° 1029'59 conjunction minimum elong 10081 Sep 16 00:29 3° 1012'13 27° 1016'13 27° 1016'14 27°	morning rise		27° m/00'41	opposition		
min. Earth dist. 10075 Mar 14 06:49 27° 1016'30 47.40762 AU evening set 10081 Sep 04 10:26 3°至14'17 direct 10075 Jun 04 02:04 26° 101745 evening set 10075 Aug 31 09:23 27° 1029'59 conjunction minimum elong 10081 Sep 16 00:29 3°至30'10 -10°12'12 minimum elong 10081 Sep 16 00:41 3°至30'10 10°12'13 conjunction 10075 Sep 10 15:31 27° 1043'58 -11°23'58 max. Earth dist. 10081 Sep 15 15:58 3°至29'40 48.77555 AU max. Earth dist. 10075 Sep 10 13:24 27° 1043'58 49.32762 AU retrograde 10081 Dec 27 05:35 5°至00'09	-	10074 Dec 20 14:50	28° m 16'00	min. Earth dist.	10081 Mar 19 20:10	3° 2 01'48 46.86150 AU
direct 10075 Jun 04 02:04 26° 101745 evening set 10075 Aug 31 09:23 27° 1029'59 conjunction 10081 Sep 16 00:29 3° 2010 10°12'12 conjunction 10075 Sep 10 15:31 27° 1043'58 -11°23'58 max. Earth dist. 10081 Sep 16 00:41 3° 2010 10°12'13 minimum elong 10075 Sep 10 15:44 27° 1043'58 11°24'02 morning rise 10081 Sep 27 16:05 3° 2046'09 max. Earth dist. 10075 Sep 10 13:24 27° 1043'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° 200'09	opposition	10075 Mar 14 06:08	27° Mp 16'32 -11°58'25	direct	10081 Jun 09 06:24	2° ჲ 03'06
evening set 10075 Aug 31 09:23 27° m/29'59 conjunction 10081 Sep 16 00:29 3° \(\Omega\)30'10 -10° 12'12 conjunction 10075 Sep 10 15:31 27° m/43'58 -11° 23'58 max. Earth dist. 10081 Sep 16 00:41 3° \(\Omega\)30'10 10° 12'13 minimum elong 10075 Sep 10 15:44 27° m/43'58 11° 24'02 morning rise 10081 Sep 27 16:05 3° \(\Omega\)48.77555 AU max. Earth dist. 10075 Sep 10 13:24 27° m/43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° \(\Omega\)00'09	min. Earth dist.	10075 Mar 14 06:49	27° m/16'30 47.40762 AU	evening set	10081 Sep 04 10:26	3° £ 14'17
evening set 10075 Aug 31 09:23 27° m/29'59 conjunction 10081 Sep 16 00:29 3° \(\Omega\)30'10 -10° 12'12 conjunction 10075 Sep 10 15:31 27° m/43'58 -11° 23'58 max. Earth dist. 10081 Sep 16 00:41 3° \(\Omega\)30'10 10° 12'13 minimum elong 10075 Sep 10 15:44 27° m/43'58 11° 24'02 morning rise 10081 Sep 27 16:05 3° \(\Omega\)48.77555 AU max. Earth dist. 10075 Sep 10 13:24 27° m/43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° \(\Omega\)00'09	direct	10075 Jun 04 02:04	26° m 17'45			
minimum elong 10081 Sep 16 00:41 3°♣30'10 10°12'13 conjunction 10075 Sep 10 15:31 27° mp43'58 -11°23'58 max. Earth dist. 10081 Sep 15 15:58 3°♣29'40 48.77555 AU minimum elong 10075 Sep 10 15:44 27° mp43'58 11°24'02 morning rise 10081 Sep 27 16:05 3°♣46'09 max. Earth dist. 10075 Sep 10 13:24 27° mp43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5°♣00'09	evening set	10075 Aug 31 09:23	27° m 29'59	conjunction	10081 Sep 16 00:29	3° - 230'10 -10°12'12
conjunction 10075 Sep 10 15:31 27° mp43'58 -11°23'58 max. Earth dist. 10081 Sep 15 15:58 3° \(\Delta\)29'40 48.77555 AU minimum elong 10075 Sep 10 15:44 27° mp43'58 11°24'02 morning rise 10081 Sep 27 16:05 3° \(\Delta\)46'09 max. Earth dist. 10075 Sep 10 13:24 27° mp43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° \(\Delta\)00'09	Č		•	•	•	
minimum elong 10075 Sep 10 15:44 27° mp43'58 11°24'02 morning rise 10081 Sep 27 16:05 3° ♣46'09 max. Earth dist. 10075 Sep 10 13:24 27° mp43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° ♣00'09	conjunction	10075 Sep. 10. 15:31	27° m 43'58 -11°23'58		-	
max. Earth dist. 10075 Sep 10 13:24 27° Mp 43'50 49.32762 AU retrograde 10081 Dec 27 05:35 5° ♣00'09	·		•		-	
	•		•	•	-	
morning rise 10075 Sep 20 25.10 27 hy5002 opposition 10082 Mar 20 10:59 4*240021 -10*3135			*	•		
	morning rise	10073 Sep 20 23.10	21 HJ 30 UZ	оррознин	10002 IVIAI 20 10.39	+ ==00 21 -10 31 33

min. Earth dist.	10082 Mar 21 02:00	3° 2 59'55 46.75338	3 AU morning rise	10088 Oct 05 17:59	10° ჲ 39'20
direct	10082 Jun 10 13:43	3° ഫ 01'10	retrograde	10089 Jan 03 04:04	11° £ 52'34
evening set	10082 Sep 05 11:17	4° £ 12'11	opposition	10089 Mar 27 06:10	10° £ 52'11 -8°53'26
	-		min. Earth dist.	10089 Mar 27 21:14	10° ≙ 51'28 45.90820 AU
conjunction	10082 Sep 17 06:08	4° £ 28'22 -9°59'31	direct	10089 Jun 16 21:12	9° ჲ 52′21
minimum elong	10082 Sep 17 06:21	4° £ 28'23 9°59'31	evening set	10089 Sep 10 21:19	11° £ 02'49
max. Earth dist.	10082 Sep 16 19:53	4° £ 27'47 48.66692	2 AU max. Earth dist.	10089 Sep 23 08:16	11° ≏ 20′07 47.82025 AU
morning rise	10082 Sep 29 02:46	4° ≏ 44'40			
retrograde	10082 Dec 28 14:42	5° ≏ 58'30	conjunction	10089 Sep 24 00:01	11° £ 21'02 -8°24'09
opposition	10083 Mar 21 21:57	4° £ 58'37 -10°18'1′	7 minimum elong	10089 Sep 24 00:13	11° £ 21'03 8°24'05
min. Earth dist.	10083 Mar 22 07:34	4° £ 58'09 46.64155	5 AU morning rise	10089 Oct 07 04:29	11° £ 39′23
direct	10083 Jun 11 15:43	3° £ 59'19	retrograde	10090 Jan 04 11:03	12° £ 52'34
evening set	10083 Sep 06 12:09	5° ≙ 10'13	opposition	10090 Mar 28 11:51	11° £ 52'06 -8°38'26
		_	min. Earth dist.	10090 Mar 29 03:08	11° ⊆ 51'22 45.77428 AU
conjunction	10083 Sep 18 11:55	5° £ 26'42 -9°46'36	direct	10090 Jun 18 01:31	10° £ 52'10
minimum elong	10083 Sep 18 12:06	5° 2 26'43 9°46'35	evening set	10090 Sep 11 23:53	12° ჲ 02'37
max. Earth dist.	10083 Sep 18 00:54	5° 2 26'04 48.55463		10000 0 05 06 05	100 0 0 1100 000010 (
morning rise	10083 Sep 30 13:24	5° £ 43'18	conjunction	10090 Sep 25 06:37	12° £ 21'08 -8°09'36
retrograde	10083 Dec 29 22:43	6° £ 56'59	minimum elong	10090 Sep 25 06:48	12° £ 21'09 8°09'33
opposition	10084 Mar 22 03:11	5° £ 57'00 -10°04'40		10090 Sep 24 12:33	12° £ 20'04 47.68523 AU
min. Earth dist.	10084 Mar 22 14:27	5° £ 56'28 46.52634	- 8	10090 Oct 08 15:23	12° △ 39'46
direct	10084 Jun 11 18:10	4° £ 57'37	retrograde	10091 Jan 05 17:27	13° ♀ 52'54
evening set	10084 Sep 06 13:07	6° £ 08'24	opposition min. Earth dist.	10091 Mar 29 17:42 10091 Mar 30 11:11	12° ♀ 52'20 -8°23'12 12° ♀ 51'30 45.63554 AU
conjunction	10084 Sep 18 17:36	6° £ 25'11 -9°33'27	direct	10091 Mai 30 11.11 10091 Jun 19 07:29	11° ⊆ 51'30 43.03334 AO
minimum elong	10084 Sep 18 17:48	6° £ 25'12 9°33'26	evening set	10091 Sep 13 02:34	11 ⊆ 32 17 13° ⊆ 02'43
max. Earth dist.	10084 Sep 18 06:16	6° £ 24'32 48.43935	•	10091 Sep 13 02.34	15 = 02 43
morning rise	10084 Sep 30 23:44	6° £ 42'05	conjunction	10091 Sep 26 13:30	13° ≙ 21'30 -7°54'50
retrograde	10084 Dec 30 01:50	7° ≙ 55'37	minimum elong	10091 Sep 26 13:41	13° 2 21'30 7 54'30 13° 2 21'31 7°54'46
opposition	10085 Mar 23 08:20	6° 2 55'33 -9°51'00	max. Earth dist.	10091 Sep 25 18:59	13° 2 20'25 47.54518 AU
min. Earth dist.	10085 Mar 23 19:16	6° 2 55'02 46.40827		10091 Oct 10 02:07	13° 2 40'25
direct	10085 Jun 13 00:24	5° £ 56'04	retrograde	10092 Jan 06 21:30	14° ♀ 53'32
evening set	10085 Sep 07 14:21	7° £ 06'46	opposition	10092 Mar 29 23:42	13° £ 52'50 -8°07'45
C	1		min. Earth dist.	10092 Mar 30 17:53	13° ≙ 51'57 45.49160 AU
conjunction	10085 Sep 19 23:22	7° £ 23'50 -9°20'04	direct	10092 Jun 19 16:08	12° £ 52'39
minimum elong	10085 Sep 19 23:33	7° £ 23'50 9°20'02	evening set	10092 Sep 13 05:27	14° £ 03'04
max. Earth dist.	10085 Sep 19 10:18	7° £ 23'04 48.32129	AU	-	
morning rise	10085 Oct 02 10:19	7° £ 41'01	conjunction	10092 Sep 26 20:09	14° £ 22'07 -7°39'51
retrograde	10085 Dec 31 06:00	8° £ 54'28	minimum elong	10092 Sep 26 20:19	14° £ 22'08 7°39'47
opposition	10086 Mar 24 13:41	7° £ 54'18 -9°36'59	max. Earth dist.	10092 Sep 25 23:34	14° £ 20'54 47.40014 AU
min. Earth dist.	10086 Mar 25 02:03	7° £ 53'43 46.28763	3 AU morning rise	10092 Oct 10 12:50	14° £ 41'18
direct	10086 Jun 14 07:06	6° ≏ 54'44	retrograde	10093 Jan 07 06:06	15° £ 54′23
evening set	10086 Sep 08 15:40	8° ഫ 05'20	opposition	10093 Mar 31 05:47	14° £ 53'34 -7°52'04
			min. Earth dist.	10093 Apr 01 00:58	14° £ 52'38 45.34291 AU
conjunction	10086 Sep 21 05:25	8° £ 22'42 -9°06'26	direct	10093 Jun 20 21:02	13° £ 53'14
minimum elong	10086 Sep 21 05:37	8° £ 22'43 9°06'25	evening set	10093 Sep 14 08:30	15° ≏ 03'38
max. Earth dist.	10086 Sep 20 16:40	8° £ 21′58 48.20065	5 AU max. Earth dist.	10093 Sep 27 05:35	15° ≙ 21'42 47.25039 AU
morning rise	10086 Oct 03 20:48	8° £ 40'11		10002 0 20 02 03	1.50 0 20150 - 700 1100
retrograde	10087 Jan 01 10:59	9° £ 53'32	conjunction	10093 Sep 28 03:06	15° £ 22'58 -7°24'39
opposition	10087 Mar 25 19:05	8° £ 53'18 -9°22'43	minimum elong	10093 Sep 28 03:17	15° Ω 22'58 7°24'34
min. Earth dist.	10087 Mar 26 07:52	8° £ 52'41 46.16422	Č	10093 Oct 11 23:34	15° £ 42'25
direct	10087 Jun 15 14:31	7° 丘 53'38 9° 丘 04'11	retrograde	10094 Jan 08 15:08	16° £ 55'29
evening set	10087 Sep 09 17:25	9 == 04 11	opposition min. Earth dist.	10094 Apr 01 11:58 10094 Apr 02 08:55	15° ♀ 54'31 -7°36'08 15° ♀ 53'30 45.18984 AU
conjunction	10087 Sep 22 11:27	9° £ 21'50 -8°52'34	direct	10094 Apr 02 08.33 10094 Jun 22 01:18	13 ≥ 53 30 43.18984 AU 14° ≥ 54'01
minimum elong	10087 Sep 22 11:27 10087 Sep 22 11:38	9° £ 21'50 8°52'31	evening set	10094 Juli 22 01:18 10094 Sep 15 11:47	14 = 34 01 16° ⊆ 04'27
max. Earth dist.	10087 Sep 22 11:38 10087 Sep 21 21:04	9° £ 21'00 48.0772€	-	10094 Sep 13 11:47 10094 Sep 28 11:54	16° 2 22'44 47.09669 AU
morning rise	10087 Oct 05 07:23	9° £ 39'36	,	1007 1 50p 20 11.54	.v —22 m =1.07007 AU
retrograde	10087 Oct 03 07:23 10088 Jan 02 19:42	10° £ 52'54	conjunction	10094 Sep 29 10:09	16° ≙ 24'02 -7°09'13
opposition	10088 Mar 26 00:27	9° £ 52'35 -9°08'11	minimum elong	10094 Sep 29 10:18	16° 2 24'03 7°09'07
min. Earth dist.	10088 Mar 26 13:51	9° £ 51'57 46.03798	•	10094 Oct 13 10:18	16° 2 43'45
direct	10088 Jun 15 17:54	8° ♀ 52'50	retrograde	10095 Jan 09 21:52	17° 2 56'49
evening set	10088 Sep 09 19:15	10° ჲ 03′20	opposition	10095 Apr 02 18:09	16° ♀ 55'42 -7°19'58
Ç			min. Earth dist.	10095 Apr 03 15:04	16° ≙ 54'42 45.03306 AU
conjunction	10088 Sep 22 17:42	10° ≙ 21'16 -8°38'28	direct	10095 Jun 23 06:58	15° ≙ 55'03
minimum elong	10088 Sep 22 17:53	10° ≙ 21'17 8°38'26	evening set	10095 Sep 16 15:24	17° ♀ 05'31
max. Earth dist.	10088 Sep 22 02:31	10° 2 20′23 47.95061			

conjunction	10095 Sep 30 17:13	17° £ 25'22	-6°53'33
minimum elong	10095 Sep 30 17:23	17° £ 25′23	6°53'27
max. Earth dist.	10095 Sep 29 17:08	17° £ 23'56	46.93935 AU
morning rise	10095 Oct 14 21:05	17° £ 45'21	
retrograde	10096 Jan 11 04:06	18° ≏ 58'26	
opposition	10096 Apr 03 00:30	17° £ 57'10	-7°03'33
min. Earth dist.	10096 Apr 03 23:08	17° ≏ 56'04	44.87304 AU
direct	10096 Jun 23 14:01	16° ≏ 56'21	
evening set	10096 Sep 16 19:05	18° ≏ 06'53	
max. Earth dist.	10096 Sep 30 00:43	18° ≏ 25'35	46.77904 AU
	100060 + 01 00 22	100 0 07100	(027120
conjunction	10096 Oct 01 00:33	18° £ 27'00	-6°37'38
minimum elong	10096 Oct 01 00:42	18° £ 27'00	6°37'31
morning rise	10096 Oct 15 07:43	18° £ 47'14	
retrograde	10097 Jan 11 09:10	20° ♀ 00'22	(04(152
opposition min. Earth dist.	10097 Apr 04 07:01	18° ♀ 58'58	-6°46'52
	10097 Apr 05 05:48	18° ♀ 57'51	44.71020 AU
direct	10097 Jun 24 22:44	17° £ 58′00	
evening set max. Earth dist.	10097 Sep 17 23:04 10097 Oct 01 06:17	19° ♀ 08'36 19° ♀ 27'27	46.61613 AU
max. Earth dist.	1009/ Oct 01 06:1/	19-22/2/	40.01013 AU
conjunction	10097 Oct 02 07:45	19° ≏ 28'58	-6°21'28
minimum elong	10097 Oct 02 07:45 10097 Oct 02 07:55	19 = 28 38 19° £ 28'59	6°21'22
morning rise	10097 Oct 02 07:33 10097 Oct 16 18:27	19 = 28 39 19° £ 49'29	0 21 22
retrograde	10097 Oct 10 18:27 10098 Jan 12 18:22	21° ⊆ 4929	
opposition	10098 Apr 05 13:41	20° ⊆ 01'09	-6°29'56
min. Earth dist.	10098 Apr 06 13:10	20° ⊆ 00'00	44.54494 AU
direct	10098 Jun 26 03:44	19° ⊆ 00'02	11.51171710
evening set	10098 Sep 19 03:22	20° ♀ 10'44	
conjunction	10098 Oct 03 15:26	20° ♀ 31'22	-6°05'04
minimum elong	10098 Oct 03 15:34	20° £ 31'23	6°04'57
max. Earth dist.	10098 Oct 02 13:24	20° £ 29'49	46.45064 AU
morning rise	10098 Oct 18 05:17	20° £ 52'08	
retrograde	10099 Jan 14 03:45	22° ₽ 05'26	
opposition	10099 Apr 06 20:28	21° ≙ 03'46	-6°12'43
min. Earth dist.	10099 Apr 07 21:11	21° ≙ 02'34	44.37711 AU
direct	10099 Jun 27 08:39	20° ഫ 02'32	
evening set	10099 Sep 20 08:01	21° ♀ 13'22	
conjunction	10099 Oct 04 23:13	21° ≙ 34'15	-5°48'25
minimum elong	10099 Oct 04 23:21	21° ≙ 34'16	5°48'18
max. Earth dist.	10099 Oct 03 20:43	21° ≏ 32'40	46.28271 AU
morning rise	10099 Oct 19 16:11	21° ≙ 55'17	
retrograde	10100 Jan 15 13:47	23° ≏ 08'41	
opposition	10100 Apr 08 03:21	22° £ 06'54	
min. Earth dist.	10100 Apr 09 04:01	22° ♀ 05'42	44.20668 AU
direct	10100 Jun 28 13:13	21° ≏ 05'31	
evening set	10100 Sep 21 12:53		
max. Earth dist.	10100 Oct 05 02:42	22° ≏ 35'58	46.11176 AU
agniunction	10100 Oct 06 06:59	220 0 27140	5021122
conjunction		22° £ 37'40	
minimum elong	10100 Oct 06 07:07 10100 Oct 21 03:03	22° £ 37'41	5°31'23
morning rise		22° £ 58'57	
retrograde opposition	10101 Jan 16 22:44 10101 Apr 09 10:37	24° ♀ 12'30 23° ♀ 10'36	5037127
min. Earth dist.	10101 Apr 09 10.37 10101 Apr 10 13:12	23° £ 09'17	
direct	10101 Apr 10 13:12 10101 Jun 29 19:21	23 ≥ 0917 22° ⊆ 09'05	44.03306 AU
evening set	10101 Juli 29 19:21 10101 Sep 22 18:10		
max. Earth dist.	10101 Sep 22 18:10 10101 Oct 06 10:55	23° £ 2016 23° £ 39'56	45.93730 AU
mar. Durin dist.	10101 001 00 10.55	25 - 37 50	.5.75150 AU
conjunction	10101 Oct 07 15:18	23° ≏ 41'39	-5°14'24
minimum elong	10101 Oct 07 15:26		5°14'15
morning rise	10101 Oct 22 14:05		-
<i>5</i> - *		, <u>-</u>	