

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 12163 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 2 2012

See axaff12163N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Mike Nowak
V&V Date (YYYY-MM-DD)	2012.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.96053738546369

## Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.

seq_num	600917	Sequence number
obs_id	12163	Observation id
title	Black Hole X-ray Novae in M31	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	M31	Source name
dtcycle	0	&#160
cycle	P	events are from which exps? P[primary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.692365195541	Nominal RA [deg]
dec_nom	41.263047463852	Nominal Dec [deg]
roll_nom	295.12652226156	Nominal Roll [deg]
revision	2	Processing version of data
ontime	937.74558162689	Sum of GTIs [s]
livetime	147.62377444695	Livetime [s]
ontime0	937.74558162689	Sum of GTIs [s]
ontime1	937.74558162689	Sum of GTIs [s]
ontime2	937.74558162689	Sum of GTIs [s]
ontime3	937.74558162689	Sum of GTIs [s]
ontime6	937.74558162689	Sum of GTIs [s]
ontime7	937.74558162689	Sum of GTIs [s]
l2events	2436	Number of level 2 events

