

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 12750 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2012

See [axaff12750N003\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.03740018487

## 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.

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A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been

fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:  
(172.89392,-2.26514),(172.89673,-2.26682),(172.90996,-2.24454),(172.90715,-2.24286)

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Joint Proposal: HST

seq_num	702386	Sequence number
obs_id	12750	Observation id
title	X-ray and HST Imaging of Kpc-Scale Binary AGNs	Proposal title
observer	Dr Yue Shen	Principal investigator
object	SDSSJ1131-0204	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.85875	Observer's specified target RA [deg]
dec_targ	-2.083111	Observer's specified target Dec [deg]
ra_nom	172.85694669839	Nominal RA [deg]
dec_nom	-2.0811276323466	Nominal Dec [deg]
roll_nom	59.296560741581	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24037.40018487	Sum of GTIs [s]
livetime	23723.333855378	Livetime [s]
ontime2	24034.259154618	Sum of GTIs [s]
ontime3	24037.40018487	Sum of GTIs [s]
ontime5	24037.40018487	Sum of GTIs [s]
ontime6	24037.40018487	Sum of GTIs [s]
ontime7	24037.40018487	Sum of GTIs [s]
l2events	265407	Number of level 2 events

