

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12822 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 6 2012

See axaff12822N003_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	4.9598365982175

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 = 1 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 = 1 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:
(208.16855,14.39195), (208.17378,14.39304), (208.15241,14.49038), (208.14662,14.49183)

seq_num	702458	Sequence number
obs_id	12822	Observation id
title	A Systematic Chandra Survey of AGN in Major Mergers -- How many Binary AGN are out there?	Proposal title
observer	DR. Kevin Schawinski	Principal investigator
object	GZ_merger_AGN_12	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	208.110833	Observer's specified target RA [deg]
dec_targ	14.490972	Observer's specified target Dec [deg]
ra_nom	208.10667530794	Nominal RA [deg]
dec_nom	14.497930771291	Nominal Dec [deg]
roll_nom	102.01370775564	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4959.8365980983	Sum of GTIs [s]
livetime	4897.0321606381	Livetime [s]
ontime0	4959.7134780884	Sum of GTIs [s]
ontime1	4959.7545180917	Sum of GTIs [s]
ontime2	4959.795558095	Sum of GTIs [s]
ontime3	4959.8365980983	Sum of GTIs [s]
ontime6	4959.9186781049	Sum of GTIs [s]
ontime7	4959.8776381016	Sum of GTIs [s]
l2events	24842	Number of level 2 events

