

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12794 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 5 2012

See axaff12794N003_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	5.0463999812603

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 = 2 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 = 2 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:
(201.76256,7.87356), (201.75844,7.87341), (201.76285,7.74752), (201.76697,7.74767)

seq_num	702430	Sequence number
obs_id	12794	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Prof. Ohad Shemmer	Principal investigator
object	PSS 1326+0743	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.549167	Observer's specified target RA [deg]
dec_targ	7.732639	Observer's specified target Dec [deg]
ra_nom	201.546440801	Nominal RA [deg]
dec_nom	7.7367662842884	Nominal Dec [deg]
roll_nom	92.023598780261	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5046.3999812603	Sum of GTIs [s]
livetime	4982.4994261203	Livetime [s]
ontime2	5046.3999812603	Sum of GTIs [s]
ontime3	5046.3999812603	Sum of GTIs [s]
ontime5	5046.3999812603	Sum of GTIs [s]
ontime6	5046.3999812603	Sum of GTIs [s]
ontime7	5046.3999812603	Sum of GTIs [s]
ontime8	5046.3999812603	Sum of GTIs [s]
l2events	58119	Number of level 2 events

