

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12881 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 3 2012

See axaff12881N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	119.63210092008

Comments

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:
(116.96870,-19.56141),(116.97158,-19.55297),(116.93222,-19.54093),(116.92934,-19.54937)

==== Joint Proposal: NRAO

====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	801020	Sequence number
obs_id	12881	Observation id
title	A deep look at PKS 0745-191 and its cluster environment	Proposal t
observer	Dr Jeremy Sanders	Principal investigator
object	PKS 0745-19	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	116.880417	Observer's specified target RA [deg]
dec_targ	-19.294472	Observer's specified target Dec [deg]
ra_nom	116.90081265786	Nominal RA [deg]
dec_nom	-19.302481417845	Nominal Dec [deg]
roll_nom	342.00411741321	Nominal Roll [deg]
revision	3	Processing version of data
ontime	119632.10092008	Sum of GTIs [s]
livetime	118069.01944969	Livetime [s]
ontime2	119610.11372757	Sum of GTIs [s]
ontime3	119619.53687871	Sum of GTIs [s]
ontime5	119632.10092008	Sum of GTIs [s]
ontime6	119613.25473791	Sum of GTIs [s]
ontime7	119632.10092008	Sum of GTIs [s]
l2events	2168097	Number of level 2 events

