

V&V Summary Report

L2 ASCDS Version : 8.5.1.1

Observation 5514 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Feb 28 2013

See axaff05514N004_VV001_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.03.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	74.7522

Comments

Zeroth order piled up. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates (x=4097.05, y=4062.53) into the *srcla.fits file table. These corrected coordinates were determined using a software tool developed by CXC called tg_findzo, available in CIAO. The tool calculates the point of intersection of the readout streak and the meg arm. The zeroth order source position determined by the standard pipeline processing using the tool tgdetect was not used in this processing. The newly determined zeroth order coordinates have been placed in the *srcla.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.

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A spatial region of the original bias map for CCD = 4 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 = 4 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:
 (287.79647,4.56022), (287.80469,4.57763), (287.78475,4.58699), (287.78322,4.56644)

seq_num	400444	Sequence number
obs_id	5514	Observation id
title	Detailed Studies of the Jets in SS 433	Proposal title
observer	Prof Claude Canizares	Principal investigator
object	SS 433	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.95625	Observer's specified target RA [deg]
dec_targ	4.982778	Observer's specified target Dec [deg]
ra_nom	287.9565900181	Nominal RA [deg]
dec_nom	4.9873692251858	Nominal Dec [deg]
roll_nom	244.75659729994	Nominal Roll [deg]
revision	4	Processing version of data
ontime	74752.200495064	Sum of GTIs [s]
livetime	73085.843268542	Livetime [s]
ontime4	74752.200495064	Sum of GTIs [s]
ontime5	74752.200495064	Sum of GTIs [s]
ontime6	74752.200495064	Sum of GTIs [s]
ontime7	74752.200495064	Sum of GTIs [s]
ontime8	74752.200495064	Sum of GTIs [s]
ontime9	74750.359474987	Sum of GTIs [s]
l2events	750755	Number of level 2 events

