

V&V Summary Report

L2 ASCDS Version : 8.3.2.1

Observation 48 - L2 Version 6
Chandra X-Ray Center

L2 Processing Date : Oct 19 2010

See [axaff00048N004_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.678

Comments

The guide star in slot 7 was removed manually from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one guide star from the solution.

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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:
(15.44567,-71.94990), (15.42685,-71.94930), (15.40891,-72.00164), (15.42778,-72.00224)

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The focal plane temperature is approximately -110C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

seq_num	590108	Sequence number
obs_id	48	Observation id
title	ACIS CHIP RESPONSE TO LINES WITH E=0.6-1.5 KEV	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip I1, T=110, Offsets=-4,-2,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA
dec_targ	-72.032028	Observer's specified target Dec
ra_nom	15.84558407841	Nominal RA
dec_nom	-72.098656675974	Nominal Dec
roll_nom	264.34324434126	Nominal Roll
revision	6	Processing version of data
ontime	8677.5492540672	Sum of GTIs [s]
livetime	8567.6689004194	Livetime [s]
ontime0	8674.4724538475	Sum of GTIs [s]
ontime1	8677.6723740622	Sum of GTIs [s]
ontime2	8677.6313340664	Sum of GTIs [s]
ontime3	8677.5492540672	Sum of GTIs [s]
ontime6	8677.5902940631	Sum of GTIs [s]
l2events	67800	Number of level 2 events

