

V&V Summary Report

L2 ASCDS Version : 8.3.2.1

Observation 49 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Sep 24 2010

See [axaff00049N003_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.09.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.168

Comments

Comments for ObsId 0

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.

The ACIS CTI correction has not been calibrated at this temperature, 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.

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Charge time:

Charge time for this ObsId remains at original value of 9.168 ksec, although with the current processing the charge time would have been

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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:

(15.42794,-71.99906),(15.40907,-71.99844),(15.39056,-72.05076),(15.40948,-72.05138)

seq_num	590109	Sequence number
obs_id	49	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=-7,-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	15.827821319178	Nominal RA
dec_nom	-72.148241999039	Nominal Dec
roll_nom	264.16760805726	Nominal Roll
revision	5	Processing version of data
ontime	9269.6971068829	Sum of GTIs [s]
livetime	9152.3186205741	Livetime [s]
ontime0	9269.8612668812	Sum of GTIs [s]
ontime1	9269.8202268779	Sum of GTIs [s]
ontime2	9269.7791868821	Sum of GTIs [s]
ontime3	9269.6971068829	Sum of GTIs [s]
ontime6	9269.7381468788	Sum of GTIs [s]
l2events	69534	Number of level 2 events

