

V&V Summary Report

L2 ASCDS Version : 8.3.3.1

Observation 62250 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Dec 3 2010

See axaff62250N003_VV001_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4804027095959

Comments

A spatial region of the original bias map for CCD = 3 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 = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.

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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 chip (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	 	Sequence number
obs_id	62250	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	338.02092889612	Nominal RA
dec_nom	-35.025632951878	Nominal Dec
roll_nom	276.40456782911	Nominal Roll
revision	5	Processing version of data
ontime	3480.4027095959	Sum of GTIs [s]
livetime	3436.33175484	Livetime [s]
ontime0	1425.5627752542	Sum of GTIs [s]
ontime1	1448.7433864623	Sum of GTIs [s]
ontime2	1364.4763762355	Sum of GTIs [s]
ontime3	1367.7173264474	Sum of GTIs [s]
ontime6	1526.5283166766	Sum of GTIs [s]
ontime7	3480.4027095959	Sum of GTIs [s]
l2events	922716	Number of level 2 events