

# V&V Summary Report

## L2 ASCDS Version : 10

Observation 15658 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 4 2014

See axaff15658N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	73.084387277722

## Comments

The bias map for CCD\_ID = 1 suffered from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the 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\_ID = 1 has been recreated for this processing to remove this anomaly. The bias map was reconstructed using scaled data from a comparable bias map for another observation to replace pixels affected by the anomaly. The pixels affected by the anomaly are bounded by sky coords:

(82.38215, -39.33704), (82.38295, -39.33300), (82.36919, -39.33134), (82.36839, -39.33538)

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The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve

overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

seq_num	801304	Sequence number
obs_id	15658	Observation id
title	Extreme Cluster Mergers - Deep Chandra Follow-up to Two Massive Cluster Mergers at Redshift 0.25 Detected by Planck	Proposal title
observer	Dr Ralph Kraft	Principal investigator
object	RXC J0528.9-3927	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	82.187549	Observer's specified target RA [deg]
dec_targ	-39.433407	Observer's specified target Dec [deg]
ra_nom	82.177189516874	Nominal RA [deg]
dec_nom	-39.434569157062	Nominal Dec [deg]
roll_nom	171.00210506426	Nominal Roll [deg]
revision	3	Processing version of data
ontime	73084.387277722	Sum of GTIs [s]
livetime	72129.485953996	Livetime [s]
ontime0	73084.264157712	Sum of GTIs [s]
ontime1	73084.305197716	Sum of GTIs [s]
ontime2	73078.064296961	Sum of GTIs [s]
ontime3	73084.387277722	Sum of GTIs [s]
ontime6	73077.941147089	Sum of GTIs [s]
l2events	228066	Number of level 2 events

