

# V&V Summary Report

## L2 ASCDS Version : 8.3.3.1

Observation 316 - L2 Version 6  
Chandra X-Ray Center

L2 Processing Date : Dec 8 2010

See axaff00316N003\_VV001\_vvref2.pdf for the full report

|                            |               |
|----------------------------|---------------|
| V&V Scientist              | Beth Sundheim |
| V&V Date (YYYY-MM-DD)      | 2010.12.09    |
| V&V Edition                | 1             |
| V&V Disposition and Status | OK            |
| V&V Charge Time            | 36.182        |

## Comments

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: (201.59503, -42.99510), (201.60348, -42.99403), (201.59040, -42.93786), (201.58265, -42.94188).

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The focal plane temperature is approximately -110 C 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. 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  | 600076   | Sequence number                             |
| obs_id   | 316  | Observation id                              |
| title    | NGC5128: BINARY SOURCES IN THE NEAREST ELLIPTICAL GALAXY | Proposal                                    |
| observer | Dr Steve Murray  | Principal investigator                      |
| object   | NGC 5128   | Source name                                 |
| dtcycle  | 0  | &#160                                       |
| cycle    | P  | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 201.365042   | Observer's specified target RA              |
| dec_targ | -43.019139   | Observer's specified target Dec             |
| ra_nom   | 201.42308126647  | Nominal RA                                  |
| dec_nom  | -42.956647640195   | Nominal Dec                                 |
| roll_nom | 99.548284463486  | Nominal Roll                                |
| revision | 6  | Processing version of data                  |
| ontime   | 36179.039063051  | Sum of GTIs [s]                             |
| livetime | 35720.918286033  | Livetime [s]                                |
| ontime0  | 36175.959083475  | Sum of GTIs [s]                             |
| ontime1  | 36172.680382326  | Sum of GTIs [s]                             |
| ontime2  | 36169.398302317  | Sum of GTIs [s]                             |
| ontime3  | 36179.039063051  | Sum of GTIs [s]                             |
| ontime6  | 36175.839152828  | Sum of GTIs [s]                             |
| l2events | 247153   | Number of level 2 events                    |

