

V&V Summary Report

L2 ASCDS Version : 8.4.4

Observation 7444 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Apr 30 2012

See axaff07444N003_VV001_vvref2.pdf for the full report

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|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.05.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 49.3310768 |

Comments

Spatial regions of the original bias maps for CCD = 0 and 6 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 maps for CCD = 0 and 6 have 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:

CCD 0:

(309.53625,42.30303) , (309.53771,42.30067) , (309.55929,42.30807) , (309.56100,42.31151)

CCD 6:

(309.75796,42.01274) , (309.76163,42.01400) , (309.74223,42.04523) , (309.73856,42.04397)

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|----------|---|---|
| seq_num | 200454 | Sequence number |
| obs_id | 7444 | Observation id |
| title | The high-mass star forming region DR21 | Proposal title |
| observer | Dr. Francesco Damiani | Principal investigator |
| object | DR 21 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 309.752917 | Observer's specified target RA [deg] |
| dec_targ | 42.315778 | Observer's specified target Dec [deg] |
| ra_nom | 309.74480285212 | Nominal RA [deg] |
| dec_nom | 42.310360117113 | Nominal Dec [deg] |
| roll_nom | 204.72941528746 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 49331.076835513 | Sum of GTIs [s] |
| livetime | 48706.417037014 | Livetime [s] |
| ontime0 | 49340.799816251 | Sum of GTIs [s] |
| ontime1 | 49334.317815781 | Sum of GTIs [s] |
| ontime2 | 49337.558806062 | Sum of GTIs [s] |
| ontime3 | 49331.076835513 | Sum of GTIs [s] |
| ontime6 | 49337.55882591 | Sum of GTIs [s] |
| ontime7 | 49340.799816251 | Sum of GTIs [s] |
| l2events | 377379 | Number of level 2 events |

