

V&V Summary Report

L2 ASCDS Version : 10.5

Observation 18364 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jul 28 2016

See axaff18364N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.045599850416

Comments

Zereth order piled up. The zereth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the meg or leg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

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A spatial region of the original bias map for CCD = 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 map for CCD = 6 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: (79.22697,46.07352), (79.22513,46.06963), (79.28101,46.05691), (79.28285,46.06080).

seq_num	291259	Sequence number
obs_id	18364	Observation id
title	AO-17 Internal Cross-Calibration Study	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.172917	Observer's specified target RA [deg]
dec_targ	45.996389	Observer's specified target Dec [deg]
ra_nom	79.169675387456	Nominal RA [deg]
dec_nom	45.997511440184	Nominal Dec [deg]
roll_nom	71.848441055235	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15045.599850416	Sum of GTIs [s]
livetime	14792.645610477	Livetime [s]
ontime5	15045.599850416	Sum of GTIs [s]
ontime6	15045.599850416	Sum of GTIs [s]
ontime7	15045.599850416	Sum of GTIs [s]
ontime8	15045.599850416	Sum of GTIs [s]
ontime9	15045.599850416	Sum of GTIs [s]
l2events	152575	Number of level 2 events

