

V&V Summary Report

L2 ASCDS Version : 10.9.1

Observation 5851 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Oct 10 2020

See axaff05851N005_VV001_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.22
V&V Edition	1
V&V Disposition and Status	Repr+DD
V&V Charge Time	36.14901

Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files ARE INCORRECT by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct.

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Roll constraint met.

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The bias map for CCD_ID = 3 suffers 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 = 3 will be recreated to remove this anomaly and the data will be reprocessed.

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SAP: please reprocess with the replacement bias for CCD_ID = 3

seq_num	900353	Sequence number
obs_id	5851	Observation id
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	Extended Groth Strip (EGS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.102081	Observer's specified target RA [deg]
dec_targ	52.334053	Observer's specified target Dec [deg]
ra_nom	214.10375885945	Nominal RA [deg]
dec_nom	52.328547868953	Nominal Dec [deg]
roll_nom	345.20065198274	Nominal Roll [deg]
revision	5	Processing version of data
ontime	36149.017960042	Sum of GTIs [s]
livetime	35676.704427874	Livetime [s]
ontime0	36155.299930453	Sum of GTIs [s]
ontime1	36155.299930453	Sum of GTIs [s]
ontime2	36152.158960223	Sum of GTIs [s]
ontime3	36149.017960042	Sum of GTIs [s]
ontime6	36149.018049717	Sum of GTIs [s]
l2events	98893	Number of level 2 events

