

V&V Summary Report

L2 ASCDS Version : 10.4.1

Observation 17128 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 12 2018

See axaff17128N003_VV001_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2018.02.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	125.13460096252

Comments

To compensate for a few bad pixels not marked as bad that were not removed in the Level 2 processing, a custom bad pixel file with additional bad pixels at (chipx, chipy) = (232:234,322:339) in S1 was added in this processing. As a result, the user will NOT find a relatively bright square of pixels on the S1 chip for level 2 data caused by the application of the dither algorithm to the bad pixels in question, as opposed to previous processing(s).

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A spatial region of the original bias map for CCD = 3 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 = 3 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:
(9.47888, -1.24004), (9.48603, -1.23829), (9.45243, -1.10293),
(9.44528, -1.10468).

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One optional chip was dropped.

seq_num	703127	Sequence number
obs_id	17128	Observation id
title	Strong shocks in 3C 15	Proposal title
observer	Dr Beatriz Mingo	Principal investigator
object	3C 15	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	9.267083	Observer's specified target RA [deg]
dec_targ	-1.152222	Observer's specified target Dec [deg]
ra_nom	9.2627454919582	Nominal RA [deg]
dec_nom	-1.1489465420459	Nominal Dec [deg]
roll_nom	103.9177124734	Nominal Roll [deg]
revision	3	Processing version of data
ontime	125134.60096252	Sum of GTIs [s]
livetime	123499.62527819	Livetime [s]
ontime3	125128.31875169	Sum of GTIs [s]
ontime5	125134.60096252	Sum of GTIs [s]
ontime6	125118.8955009	Sum of GTIs [s]
ontime7	125134.60096252	Sum of GTIs [s]
ontime8	125128.31878209	Sum of GTIs [s]
l2events	1080314	Number of level 2 events

