

# V&V Summary Report

## L2 ASCDS Version : 10.9.2

Observation 6112 - L2 Version 6  
Chandra X-Ray Center

L2 Processing Date : Oct 15 2020

See axaff06112N006\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.510799

## 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 ( $\sim 20$  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:  
(217.02999,44.10761), (217.03511,44.10782), (217.03088,44.16350), (217.02576,44.16329).

seq_num	800560	Sequence number
obs_id	6112	Observation id
title	Probing dark energy using the X-ray gas mass fraction in dynamically relaxed galaxy clusters	Proposal title
observer	Steve Allen	Principal investigator
object	MACS1427.2+4407	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.817083	Observer's specified target RA [deg]
dec_targ	44.125278	Observer's specified target Dec [deg]
ra_nom	216.8215987303	Nominal RA [deg]
dec_nom	44.150899624224	Nominal Dec [deg]
roll_nom	93.258242523168	Nominal Roll [deg]
revision	6	Processing version of data
ontime	9509.4097808897	Sum of GTIs [s]
livetime	9385.1623413768	Livetime [s]
ontime0	9509.2866608799	Sum of GTIs [s]
ontime1	9509.3277008832	Sum of GTIs [s]
ontime2	9509.3687408864	Sum of GTIs [s]
ontime3	9509.4097808897	Sum of GTIs [s]
ontime6	9506.1046306193	Sum of GTIs [s]
l2events	26421	Number of level 2 events

