

V&V Summary Report

L2 ASCDS Version : 10.7.1

Observation 20916 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 13 2019

See [axaff20916N002-VV001_vvref2.pdf](#) for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.0549774369

Comments

A spatial region of the original bias map for CCD = 2 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 = 2 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: (238.72663,66.42932), (238.71848,66.42642), (238.82360,66.37883), (238.82837,66.38325).

seq_num	801762	Sequence number
obs_id	20916	Observation id
title	Shock structure, the electron-ion equilibration timescale and the disintegrating cool core in A2146	Proposal title
observer	Helen Russell	Principal investigator
object	Abell 2146	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.06125	Observer's specified target RA [deg]
dec_targ	66.346917	Observer's specified target Dec [deg]
ra_nom	239.02893827418	Nominal RA [deg]
dec_nom	66.405965053783	Nominal Dec [deg]
roll_nom	131.2382867566	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40054.9774369	Sum of GTIs [s]
livetime	39531.629668642	Livetime [s]
ontime0	40061.259337902	Sum of GTIs [s]
ontime1	40064.400308251	Sum of GTIs [s]
ontime2	40064.400308251	Sum of GTIs [s]
ontime3	40054.9774369	Sum of GTIs [s]
ontime6	40064.400308251	Sum of GTIs [s]
l2events	166353	Number of level 2 events

