

V&V Summary Report

L2 ASCDS Version : 10.9.2

Observation 21131 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 26 2020

See [axaff21131N003_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.077548824668

Comments

One optional chip was dropped.

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Two spatial regions 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 (~20 eV), it depends on many parameters that have not yet been fully explored for this anomaly. The bias map for CCD = 1 has been reconstructed for this processing to remove the anomaly using scaled data from a comparable bias map from another observation.

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The first region affected by the anomaly is bounded by sky coords:
(334.73593,-3.82106), (334.73816,-3.81948), (334.72633,-3.80278),
(334.72379,-3.80391).

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The other affected region is bounded by sky coords:
(334.78800,-3.82916), (334.80483,-3.81724), (334.78520,-3.78951),
(334.77247,-3.80722).

seq_num	801791	Sequence number
obs_id	21131	Observation id
title	1E 2216: THE FIRST SHOCK IN A CLUSTER COLLISION	Proposal title
observer	Jelle Kaastra	Principal investigator
object	1E 2216/1E 2215	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	334.605833	Observer's specified target RA [deg]
dec_targ	-3.795556	Observer's specified target Dec [deg]
ra_nom	334.60545866339	Nominal RA [deg]
dec_nom	-3.7922643936338	Nominal Dec [deg]
roll_nom	125.20540258101	Nominal Roll [deg]
revision	3	Processing version of data
ontime	32077.548816204	Sum of GTIs [s]
livetime	31658.432025772	Livetime [s]
ontime0	32080.566746473	Sum of GTIs [s]
ontime1	32074.32563591	Sum of GTIs [s]
ontime2	32077.507815957	Sum of GTIs [s]
ontime3	32077.548816204	Sum of GTIs [s]
l2events	114495	Number of level 2 events

