

V&V Summary Report

L2 ASCDS Version : 10.9.2

Observation 21135 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 26 2020

See [axaff21135N003_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	22.062659139633

Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.

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A spatial region of the original bias map for CCD = 6 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 = 6 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: (239.39449,66.06633), (239.40372,66.07187), (239.36662,66.08203), (239.35293,66.07771).

seq_num	801762	Sequence number
obs_id	21135	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	238.90758835086	Nominal RA [deg]
dec_nom	66.347653676447	Nominal Dec [deg]
roll_nom	236.33625020638	Nominal Roll [deg]
revision	3	Processing version of data
ontime	22062.659139633	Sum of GTIs [s]
livetime	21774.394255681	Livetime [s]
ontime0	22065.800169826	Sum of GTIs [s]
ontime1	22062.659169793	Sum of GTIs [s]
ontime2	22062.65909946	Sum of GTIs [s]
ontime3	22062.659139633	Sum of GTIs [s]
ontime6	22065.800169826	Sum of GTIs [s]
l2events	88357	Number of level 2 events

