

# V&V Summary Report

## L2 ASCDS Version : 10.9.2

Observation 19401 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Oct 25 2020

See axaff19401N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.064423866987

## Comments

There is a faint anomalous bias feature on chip 7 in same node and chip as the target. ACIS was still taking bias maps when the maneuver to the target ended. This caused the target to slew across the chip for a short time, creating an elongated region of slightly enhanced bias values on the chip during the bias measurement. Pixels in the event data that have been bias-corrected by one of the 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. Approximate coordinates of corners of feature: (186.52120,7.25246), (186.52349,7.25536), (186.51072,7.26530), (186.50842,7.26241).

seq_num	601358	Sequence number
obs_id	19401	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	IC 3322A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.4275	Observer's specified target RA [deg]
dec_targ	7.216667	Observer's specified target Dec [deg]
ra_nom	186.42705996243	Nominal RA [deg]
dec_nom	7.2180986369051	Nominal Dec [deg]
roll_nom	231.8545920433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14064.423858762	Sum of GTIs [s]
livetime	13880.661806969	Livetime [s]
ontime5	14064.382818818	Sum of GTIs [s]
ontime6	14061.20073843	Sum of GTIs [s]
ontime7	14064.423858762	Sum of GTIs [s]
ontime8	14061.159688592	Sum of GTIs [s]
l2events	150767	Number of level 2 events

