

# V&V Summary Report

## L2 ASCDS Version : 10.9.2

Observation 19398 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 27 2020

See axaff19398N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.907900114775

## Comments

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 ( $\sim 20$  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: (190.69951,13.16732), (190.70212,13.16864), (190.63591,13.29249), (190.63330,13.29117).

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The guide star in slot 5 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.

seq_num	601355	Sequence number
obs_id	19398	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4639	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.718333	Observer's specified target RA [deg]
dec_targ	13.257389	Observer's specified target Dec [deg]
ra_nom	190.7184040734	Nominal RA [deg]
dec_nom	13.258714875286	Nominal Dec [deg]
roll_nom	207.41629794035	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14907.900114775	Sum of GTIs [s]
livetime	14713.117424739	Livetime [s]
ontime5	14907.900114775	Sum of GTIs [s]
ontime6	14907.900114775	Sum of GTIs [s]
ontime7	14907.900114775	Sum of GTIs [s]
ontime8	14892.194873571	Sum of GTIs [s]
l2events	165233	Number of level 2 events

