

# V&V Summary Report

## L2 ASCDS Version : 10.3.3

Observation 17144 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 7 2015

See axaff17144N002-VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.076612069845

## Comments

A spatial region of the original bias map for CCD = 3 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 = 3 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:  
(299.89774, 40.59658), (299.90125, 40.59715), (299.87454, 40.69082),  
(299.87034, 40.69265).

seq_num	703133	Sequence number
obs_id	17144	Observation id
title	The Rise to Power: Half a Billion Years of Intense AGN Activity in the Merging Cluster Cygnus A	Proposal title
observer	Dr. Michael Wise	Principal investigator
object	Cygnus A - E Hotspot	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.883333	Observer's specified target RA [deg]
dec_targ	40.727889	Observer's specified target Dec [deg]
ra_nom	299.8764702658	Nominal RA [deg]
dec_nom	40.736468248125	Nominal Dec [deg]
roll_nom	102.21317024813	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50076.612069845	Sum of GTIs [s]
livetime	49422.324267287	Livetime [s]
ontime0	50070.207109213	Sum of GTIs [s]
ontime1	50076.53001976	Sum of GTIs [s]
ontime2	50082.852950573	Sum of GTIs [s]
ontime3	50076.612069845	Sum of GTIs [s]
ontime6	50082.729830503	Sum of GTIs [s]
l2events	372462	Number of level 2 events

