

# V&V Summary Report

## L2 ASCDS Version : 8.1.1

Observation 515 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

See [axaff00515N001\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	89.1

## Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one fid light or guide star from the solution.

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Pointing control during the first 10 ksec of this observation was not nominal, with larger than expected and irregular dither pattern.

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The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T\_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not

effect.

seq_num	800023	Sequence number
obs_id	515	Observation id
title	ACIS STUDY OF DARK MATTER IN CLUSTERS	Proposal title
observer	Prof Gordon Garmire	Principal investigator
object	ABELL 370	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	39.97125	Observer's specified target RA
dec_targ	-1.579167	Observer's specified target Dec
ra_nom	40.011077707377	Nominal RA
dec_nom	-1.575378316342	Nominal Dec
roll_nom	47.833594229597	Nominal Roll
revision	4	Processing version of data
ontime	89160.553151466	Sum of GTIs [s]
livetime	88031.548541422	Livetime [s]
ontime2	89157.271181166	Sum of GTIs [s]
ontime3	89157.189061239	Sum of GTIs [s]
ontime6	89163.712031677	Sum of GTIs [s]
ontime7	89160.553151466	Sum of GTIs [s]
ontime8	89163.629951678	Sum of GTIs [s]
l2events	1050075	Number of level 2 events

