

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 10964 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Jun 22 2012

See axaff10964N004\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.048146907032

## Comments

Roll preference met.

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A spatial region of the original bias map for CCD = 1 suffered from strong source contamination on that chip. This results in many pixels near and on the strong source having a bad status value. 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 = 1 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:  
(308.10796,40.95855), (308.11139,40.95360), (308.11859,40.95643), (308.11517,40.96138)

seq_num	200596	Sequence number
obs_id	10964	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.184879	Observer's specified target RA [deg]
dec_targ	41.047697	Observer's specified target Dec [deg]
ra_nom	308.19249920856	Nominal RA [deg]
dec_nom	41.053383666951	Nominal Dec [deg]
roll_nom	27.403683564938	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30048.146911204	Sum of GTIs [s]
livetime	29655.545750685	Livetime [s]
ontime0	30044.882960379	Sum of GTIs [s]
ontime1	30048.064831197	Sum of GTIs [s]
ontime2	30038.682960153	Sum of GTIs [s]
ontime3	30048.146911204	Sum of GTIs [s]
ontime6	30047.982751191	Sum of GTIs [s]
l2events	811236	Number of level 2 events

