

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 10948 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Jul 16 2015

See axaff10948N004_VV001_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.615958926797

Comments

Because an aspect solution is determined in a finite time interval, a small number of events registered within the delta time before the first aspect solution do not have proper sky coordinates. We apply a manual workaround to exclude those events with incorrect sky positions until the complete s/w resolution is obtained.

A spatial region of the original bias map for CCD = 2 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 = 2 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:

(308.52794,41.87963), (308.52703,41.88255), (308.49384,41.87689),
 (308.49474,41.87397)

seq_num	200580	Sequence number
obs_id	10948	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.491869	Observer's specified target RA [deg]
dec_targ	41.765838	Observer's specified target Dec [deg]
ra_nom	308.50124179633	Nominal RA [deg]
dec_nom	41.769900138059	Nominal Dec [deg]
roll_nom	12.902452216186	Nominal Roll [deg]
revision	4	Processing version of data
ontime	27615.602614105	Sum of GTIs [s]
livetime	27265.917225685	Livetime [s]
ontime0	27612.36161387	Sum of GTIs [s]
ontime1	27612.361593783	Sum of GTIs [s]
ontime2	27615.602594197	Sum of GTIs [s]
ontime3	27615.602614105	Sum of GTIs [s]
ontime6	27618.843584418	Sum of GTIs [s]
ontime7	27618.843584418	Sum of GTIs [s]
l2events	199621	Number of level 2 events

