

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 13204 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 2 2012

See axaff13204N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.3236280962825

## Comments

This observation has significant telemetry saturation. The ONTIME is therefore less than the requested 5000 seconds.

=== A non-standard dither amplitude of 1 arcsec was used.  
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The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.

seq_num	501542	Sequence number
obs_id	13204	Observation id
title	Monitoring of the Crab Nebula	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.630246911937	Nominal RA [deg]
dec_nom	22.012771286825	Nominal Dec [deg]
roll_nom	274.94114962479	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3323.6280952692	Sum of GTIs [s]
livetime	579.97907640895	Livetime [s]
ontime7	3323.6280952692	Sum of GTIs [s]
l2events	1697454	Number of level 2 events

