

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 13151 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 8 2012

See [axaff13151N002\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10

## Comments

ONTIME of 6960.9165952802 seconds is less than 85% of expected scheduled time of 10000 seconds. This is due to telemetry saturation. Charge time was adjusted to the elapsed time of 10 ksec.

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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.

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Monitor constraint met.

seq_num	501537	Sequence number
obs_id	13151	Observation id
title	Study of spatial structure associated with a gamma-ray enhancement of the Crab	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab Nebula	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	83.630032012747	Nominal RA [deg]
dec_nom	22.012833278625	Nominal Dec [deg]
roll_nom	272.00084579719	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6960.9165952802	Sum of GTIs [s]
livetime	1216.3905559152	Livetime [s]
ontime7	6960.9165952802	Sum of GTIs [s]
l2events	3499458	Number of level 2 events

