

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 13207 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 8 2012

See [axaff13207N002\\_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	5

## Comments

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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Charge time: ONTIME of 3342.1462 seconds is less than 85% of expected scheduled time of 5000 seconds This is due to telemetry saturation, since the source is so bright. Charge time was adjusted to the elapsed time of 5000s.

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Monitor constraint met.

seq_num	501545	Sequence number
obs_id	13207	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	83.630030406936	Nominal RA [deg]
dec_nom	22.012821249517	Nominal Dec [deg]
roll_nom	272.03588571709	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3342.1461990476	Sum of GTIs [s]
lifetime	582.6005297646	Lifetime [s]
ontime7	3342.1461990476	Sum of GTIs [s]
l2events	1698249	Number of level 2 events

