

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 13152 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 8 2012

See [axaff13152N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
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

Spacecraft dither disabled. Charge time is less than ONTIME because of telemetry saturation, which is expected for this target. Charge time has been

set to the original scheduled exposure time.

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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	501538	Sequence number
obs_id	13152	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	
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	83.630034946059	Nominal RA [deg]
dec_nom	22.012835815565	Nominal Dec [deg]
roll_nom	271.94485755434	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6936.1961191297	Sum of GTIs [s]
liveltime	1211.6472974757	Livetime [s]
ontime7	6936.1961191297	Sum of GTIs [s]
l2events	3501693	Number of level 2 events

