

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 13205 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 4 2012

See [axaff13205N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5

Comments

Charge time: ONTIME of 3335.4603956938 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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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	501543	Sequence number
obs_id	13205	Observation id
title	Monitoring of the Crab Nebula	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	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	83.630656002828	Nominal RA [deg]
dec_nom	22.012601630127	Nominal Dec [deg]
roll_nom	283.15699179671	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3335.4603959322	Sum of GTIs [s]
livetime	581.8407696215	Livetime [s]
ontime7	3335.4603959322	Sum of GTIs [s]
l2events	1697775	Number of level 2 events

