

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12696 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 5 2012

See [axaff12696N003_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	15.049103485107

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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A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be

small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(185.96003,15.69460), (185.96352,15.69514), (185.94854,15.78354), (185.94448,15.78636)

seq_num	501523	Sequence number
obs_id	12696	Observation id
title	The Persistent X-ray Emission from the Type IIL SN 1979C	Proposal
observer	Dr Daniel Patnaude	Principal investigator
object	SN 1979C	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.744167	Observer's specified target RA [deg]
dec_targ	15.797694	Observer's specified target Dec [deg]
ra_nom	185.74085988993	Nominal RA [deg]
dec_nom	15.801347200947	Nominal Dec [deg]
roll_nom	99.304526398169	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15049.10348773	Sum of GTIs [s]
liveltime	14852.475871674	Livetime [s]
ontime2	15048.98036772	Sum of GTIs [s]
ontime3	15049.021407723	Sum of GTIs [s]
ontime6	15049.062447727	Sum of GTIs [s]
ontime7	15049.10348773	Sum of GTIs [s]
l2events	92179	Number of level 2 events

