

V&V Summary Report

L2 ASCDS Version : 10.9.1

Observation 4473 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Oct 5 2020

See axaff04473N004_VV001_vvref2.pdf for the full report

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.75

Comments

Multiple sources and dispersed spectra present. Only one spectrum is extracted in standard data processing - the source at 05:35:24.7, -05:2:59.5, CX00NC J053524.6-052759. Spectra of other sources can be extracted using CIAO threads. Many of the dispersed spectra and zeroth order images overlap so contamination will be an issue.

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A spatial region of the original bias map for CCD = 6 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 = 6 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:
(83.82352, -5.30641), (83.82236, -5.30888), (83.94939, -5.36802), (83.95055, -5.36555)

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This region crosses the spectral arms of the source.

seq_num	200242	Sequence number
obs_id	4473	Observation id
title	Study of Pre-Main Sequence Stars Near the Beginning of their Accretion Phase	Proposal title
observer	Dr. Claude Canizares	Principal investigator
object	Orion Nebula Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.83375	Observer's specified target RA [deg]
dec_targ	-5.444194	Observer's specified target Dec [deg]
ra_nom	83.841211028258	Nominal RA [deg]
dec_nom	-5.4397999821925	Nominal Dec [deg]
roll_nom	64.885359054541	Nominal Roll [deg]
revision	5	Processing version of data
ontime	49750.399814665	Sum of GTIs [s]
livetime	49120.430296118	Livetime [s]
ontime4	49747.158824384	Sum of GTIs [s]
ontime5	49750.399814665	Sum of GTIs [s]
ontime6	49750.36819455	Sum of GTIs [s]
ontime7	49750.399814665	Sum of GTIs [s]
ontime8	49750.327154547	Sum of GTIs [s]
ontime9	49743.804163903	Sum of GTIs [s]
l2events	794219	Number of level 2 events

