

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 2568 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 3 2012

See axaff02568N003_VV001_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.928

Comments

This field is extremely crowded. Extraction is centered on theta 1 Ori C. The dispersed spectral arms of the target and of several other sources are parallel to each other and separated by 3-4 pixels. The width of the extraction region is $\pm 6.6 \times 10^{-4}$ deg, which is about 8 pixels full width. Multiple sources in the field may cause contamination of the primary extraction at some wavelengths. The extracted spectral data will probably include data from several sources, but if the zeroth orders for these sources are sufficiently separated spatially, energy discrimination in the order sorting may reject neighboring spectral orders. Custom extraction of the dispersed spectral data is critical to analysis of these data. === Dispersed spectral data from a number of other sources can be extracted from this observation.

===

Phase constraint requested: min 0.479, err 0.03 max 0.521, err 0.03.

Actual

phase, tstart 0.453, tstop 0.489.

====

A spatial region of the original bias map for CCD = 8 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 = 8 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:
(83.77699, -5.26441), (83.77570, -5.25925), (83.75468, -5.26445), (83.75344, -5.27024)

seq_num	200176	Sequence number
obs_id	2568	Observation id
title	PHASE-RESOLVED SPECTROSCOPY OF THETA-1 ORIONIS C (O7 V)	Proposal t
observer	Prof. Marc Gagne	Principal investigator
object	HD 37022	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.81875	Observer's specified target RA [deg]
dec_targ	-5.38975	Observer's specified target Dec [deg]
ra_nom	83.818075596846	Nominal RA [deg]
dec_nom	-5.3940926152738	Nominal Dec [deg]
roll_nom	283.93858111459	Nominal Roll [deg]
revision	4	Processing version of data
ontime	46926.535454884	Sum of GTIs [s]
livetime	46332.323407187	Livetime [s]
ontime4	46926.576494887	Sum of GTIs [s]
ontime5	46926.494414881	Sum of GTIs [s]
ontime6	46926.453374892	Sum of GTIs [s]
ontime7	46926.535454884	Sum of GTIs [s]
ontime8	46926.412334889	Sum of GTIs [s]
ontime9	46926.371294886	Sum of GTIs [s]
l2events	674880	Number of level 2 events

