

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12297 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 8 2012

See [axaff12297N003_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.145

Comments

Guide star slot 7 used for optical photometry of the target.

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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.

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A spatial region of the original bias map for CCD = 4 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 = 4 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:
(202.36595,24.10607), (202.37028,24.10715), (202.36119,24.13743), (202.35568,24.14029)

seq_num	200659	Sequence number
obs_id	12297	Observation id
title	FK Comae, King of Spin: the Movie	Proposal title
observer	Dr. Thomas Ayres	Principal investigator
object	FK COMAE	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.695	Observer's specified target RA [deg]
dec_targ	24.232667	Observer's specified target Dec [deg]
ra_nom	202.69134318343	Nominal RA [deg]
dec_nom	24.229132455648	Nominal Dec [deg]
roll_nom	195.15811310487	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40145.0	Sum of GTIs [s]
livetime	39496.623429777	Livetime [s]
ontime4	40145.0	Sum of GTIs [s]
ontime5	40145.0	Sum of GTIs [s]
ontime6	40145.0	Sum of GTIs [s]
ontime7	40145.0	Sum of GTIs [s]
ontime8	40145.0	Sum of GTIs [s]
ontime9	40145.0	Sum of GTIs [s]
l2events	337139	Number of level 2 events

