

V&V Summary Report

L2 ASCDS Version : 8.5.1.1

Observation 11799 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jan 7 2013

See [axaff11799N003_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.9701593

Comments

User: The bias files for this observation were adversely affected by a light leak from a bright optical source. The CCDs ACIS-S2, ACIS-I2, and ACIS-I0 were affected the most. There may also be some contribution from the light leak on the biases for CCDs ACIS-I3 and ACIS-I1, but the effect is relatively small on these two CCDs. To avoid systematically reducing the size of the pulse heights of the events, the biases for every CCD were replaced by biases for the same set of CCDs from another observation that was taken (1) within 2 days of this observation, (2) at a temperature that differed by only a few tenths of degrees C, and (3) with the same clocking configuration. Before the replacement biases were used, the overall levels of the bias were adjusted separately for each node. The data obtained after reprocessing with the replacement biases were examined to search for evidence of problems with the pulse heights by examining the pulse heights of the outer 16 pixels of the 5x5 event islands. The modes of these pulse-height histograms were at zero adu for every node. Therefore, it appears that the reprocessed data is fine. Please note that analyses of data at or very near the event threshold will be problematic because some events that should have been telemetered will not have been due to the light leak. There is no way to fix this problem. As long as lowest-energy data are ignored for spectral analyses this issue should not be a problem.

seq_num	800682	Sequence number
obs_id	11799	Observation id
title	South Pole Telescope (SPT) - Chandra Cluster Cosmology	Proposal ti
observer	Dr. Stephen Murray	Principal investigator
object	SPT-CL 2341-5119	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	355.287	Observer's specified target RA [deg]
dec_targ	-51.3208	Observer's specified target Dec [deg]
ra_nom	355.33026217806	Nominal RA [deg]
dec_nom	-51.273590852412	Nominal Dec [deg]
roll_nom	62.242452211856	Nominal Roll [deg]
revision	3	Processing version of data
ontime	50970.159391761	Sum of GTIs [s]
livetime	50304.196735622	Livetime [s]
ontime0	50957.595450342	Sum of GTIs [s]
ontime1	50967.018381476	Sum of GTIs [s]
ontime2	50973.300392032	Sum of GTIs [s]
ontime3	50970.159391761	Sum of GTIs [s]
ontime6	50970.159401655	Sum of GTIs [s]
l2events	195533	Number of level 2 events

