V&V Summary Report
L2 ASCDS Version : 10.1.1

Observation 2594 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 19 2013

See axaff02594N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.11.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.966

Comments

```
Window constraint met.
========
Bias bleed from the source:

The extra charge in the bias pixels near (CCD_ID,CHIPX,CHIPY) =
(3,380,490) seems to result in a systematic reduction of the pulse
heights of the events on these pixels. In addition to the high-adu-value
pixels caused by contamination by the source, node=1 of chip 3 has an
abnormal distribution of adu values overall. Node 1 of CCD_ID = 3 was
replaced due to source contamination. The pixels replaced are bounded by
sky coords: (267.09868,-24.80525),(267.09821,-24.77045),
(266.94445,-24.77208),(266.94488,-24.80688). The entire bias node was
replaced for this observation. This position includes the target
location. After modifying the bias, the pulse-height data for the
events on node 1 of CCD_ID 3 seem to be fine. The source is
significantly piled. As a result, the central part of the image of the
source is missing.
```

seq_num	290150	Sequence number
obs_id	2594	Observation id
title	AO3 CALIBRATION OBSERVATIONS OF BETELGEUSE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	BETELGEUSE	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.809793105885	Nominal RA [deg]
dec_nom	7.4193698335524	Nominal Dec [deg]
roll_nom	41.145339260411	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2963.2000027448	Sum of GTIs [s]
livetime	2925.6781800852	Livetime [s]
ontime2	2963.2000027448	Sum of GTIs [s]
ontime3	2963.2000027448	Sum of GTIs [s]
ontime5	2963.2000027448	Sum of GTIs [s]
ontime6	2963.2000027448	Sum of GTIs [s]
ontime7	2963.2000027448	Sum of GTIs [s]
ontime8	2963.2000027448	Sum of GTIs [s]
l2events	28437	Number of level 2 events