V&V Summary Report
L2 ASCDS Version : 8.3.3.1

Observation 123 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 17 2010

See axaff00123N001_VV002_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2011.01.14
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	13.6

Comments

```
Satellite entered bright star hold about 6 hours into the observation.
There was 1 science run during the maneuver to obsid 123 which should be
ignored.
Due to the bad quaternion we never went into Kalman lock for this first
science run. The second science run is also obsid 123, which is good.
===
Charge time for this ObsId remains at original value of 13.6 ks,
although
with the current processing the charge time would have been 13.527
ksec.
===Roll constraint met.
===
The high count rate resulted in telemetry saturation to varying degrees
on all chips except chip 7 and a large number
of dropped exposures. The ONTIME value reflects the lost exposure
time.
===
The focal plane temperature is approximately -110 C during this
observation. This reprocessing of the data applies no CTI correction
because none is available for this temperature at present.
```

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

seq_num	500010	Sequence number
obs_id	123	Observation id
title	THE SUPERNOVA REMNANT AND NEUTRON STAR RCW 103	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	RCW 103	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.413333	Observer's specified target RA
dec_targ	-51.016667	Observer's specified target Dec
ra_nom	244.40681340288	Nominal RA
dec_nom	-51.020272998635	Nominal Dec
roll_nom	245.31030037495	Nominal Roll
revision	3	Processing version of data
ontime	13527.034208246	Sum of GTIs [s]
livetime	13355.746756099	Livetime [s]
ontime0	13348.906781718	Sum of GTIs [s]
ontime1	13949.306297608	Sum of GTIs [s]
ontime2	11962.597632937	Sum of GTIs [s]
ontime3	13527.034208246	Sum of GTIs [s]
ontime6	15802.14584405	Sum of GTIs [s]
ontime7	19033.582649708	Sum of GTIs [s]
l2events	624403	Number of level 2 events