

# V&V Summary Report

## L2 ASCDS Version : 8.3.2

Observation 1098 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Aug 2 2010

See [axaff01098N002\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.118

## Comments

This is the first grating observation of the Chandra mission. The observation started without the grating inserted. The grating was inserted at 0540 on Aug. 28, about 4.5 ksec into the observation. This processing includes the time interval during which the grating was inserted in the Level 2 data.

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The bias map for CCD\_ID = 7 suffered from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the 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\_ID=7 have been recreated recreated for this processing to remove this anomaly.

Bias map for chip 7 was reconstructed using scaled data

affected  
by the anomaly.  
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The focal plane temperature is approximately -100 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.

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seq_num	280048	Sequence number
obs_id	1098	Observation id
title	&#160	Proposal title
observer	DR. CXC CALIBRATION	Principal investigator
object	CAPELLA	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.17625	Observer's specified target RA
dec_targ	45.997889	Observer's specified target Dec
ra_nom	79.179643507681	Nominal RA
dec_nom	46.002565127493	Nominal Dec
roll_nom	87.812677728767	Nominal Roll
revision	5	Processing version of data
ontime	7117.0212429985	Sum of GTIs [s]
liveltime	7026.901234664	Livetime [s]
ontime4	7104.0338565558	Sum of GTIs [s]
ontime5	7116.9802029952	Sum of GTIs [s]
ontime6	7110.3926170543	Sum of GTIs [s]
ontime7	7117.0212429985	Sum of GTIs [s]
ontime8	7103.9927766249	Sum of GTIs [s]
ontime9	7100.7107564732	Sum of GTIs [s]
l2events	104163	Number of level 2 events

