

V&V Summary Report

L2 ASCDS Version : 8.3.2.1

Observation 580 - L2 Version 6
Chandra X-Ray Center

L2 Processing Date : Sep 21 2010

See axaff00580N003_VV001_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.067

Comments

Comments for ObsId 0

The ACIS focal plane temperature is warmer than -118.7 C degrees during the interval 58844779.61 - 58894955.61 (MET s) of this observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 C during the interval 58844779.61 - 58894955.61 (MET s) of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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 (e.g., 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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Charge time:

Charge time for this ObsId remains at previous value of 50.067 ks although with the current processing the charge time would have been 50.17 ksec.

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A spatial region of the original bias map for CCD = 2 suffered from anomalously high data values. Pixels in the event data that were

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 = 2 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:
(189.31602,62.34095), (189.31075,62.34423), (189.26644,62.32894), (189.27171,62.32567)

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The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one guide star from the solution.

seq_num	900001	Sequence number
obs_id	580	Observation id
title	DEEP ACIS OBSERVATION OF THE HUBBLE DEEP FIELD	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	HUBBLE DEEP FIELD	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.205833	Observer's specified target RA
dec_targ	62.216111	Observer's specified target Dec
ra_nom	189.31674706642	Nominal RA
dec_nom	62.210317264763	Nominal Dec
roll_nom	36.592503268353	Nominal Roll
revision	6	Processing version of data
ontime	50171.906208299	Sum of GTIs [s]
liveltime	49536.599321995	Livetime [s]
ontime0	50175.311288595	Sum of GTIs [s]
ontime1	50175.270268515	Sum of GTIs [s]
ontime2	50171.98829823	Sum of GTIs [s]
ontime3	50171.906208299	Sum of GTIs [s]
ontime6	50168.706248149	Sum of GTIs [s]
l2events	186917	Number of level 2 events

