

# V&V Reference Report

## L2 ASCDS Version : 8.3.2.1

Observation 62729 - L2 Version 5

Chandra X-Ray Center

L2 Processing Date : Oct 15 2010

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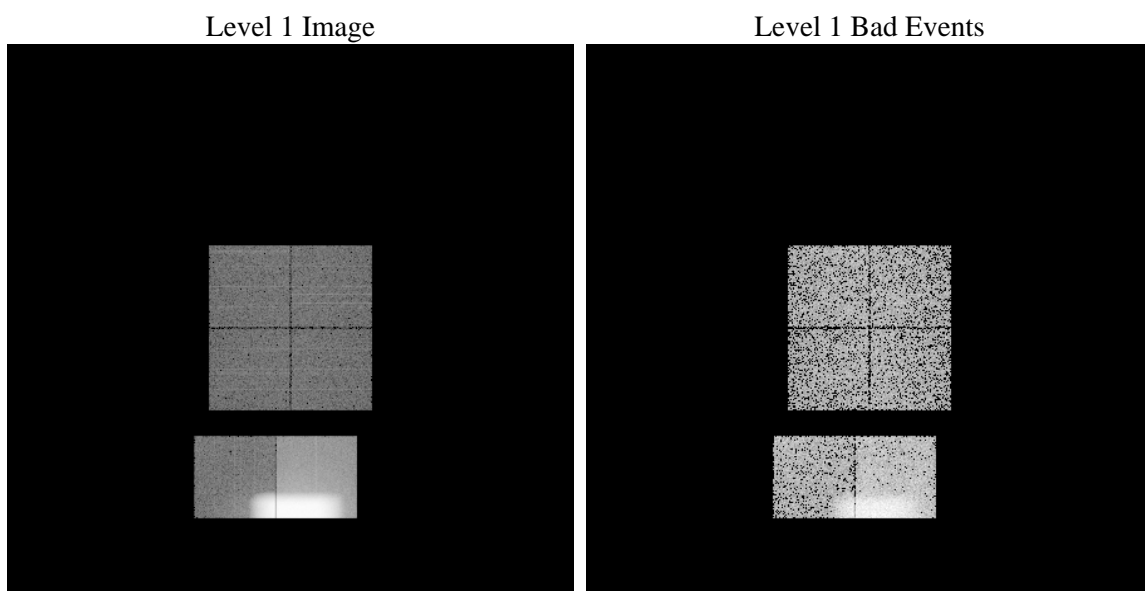
# 1 Front

seq_num	0	Sequence number
obs_id	62729	Observation id
title	ACIS internal cal; post IPS4	Proposal title
observer	CHANDRA orbital activation and checkout	Principal investigator
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Target RA
dec_targ	0.0	Target Dec
ra_nom	221.44845767995	Nominal RA
dec_nom	-8.8640935804804	Nominal Dec
roll_nom	252.85345408718	Nominal Roll
revision	5	Processing version of data
ontime	10157.195179872	Sum of GTIs [s]
livetime	10032.42825395	Livetime [s]
ontime0	10170.559040599	Sum of GTIs [s]
ontime1	10170.559040599	Sum of GTIs [s]
ontime2	10173.899990812	Sum of GTIs [s]
ontime3	10170.559040591	Sum of GTIs [s]
ontime6	10167.21805045	Sum of GTIs [s]
ontime7	10157.195179872	Sum of GTIs [s]
l2events	825442	Number of level 2 events

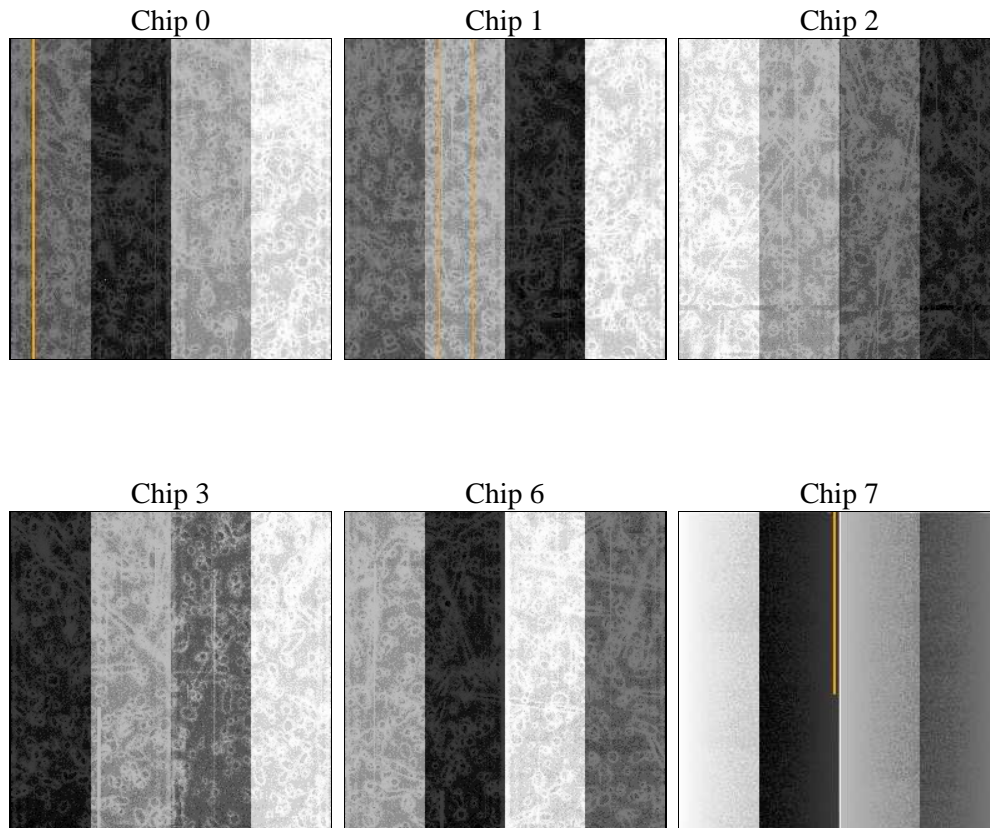
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	ObI number		
ascdsver	8.3.2.1	ASCDS version number		
caldsver	4.3.1	&#160		
date	2010-10-15T19:37:48	Date and time of file creation		
revision	5	Processing version of data		
			sched_exp_time	0.0
				Scheduled observation exposure time
			ontime	10157.195179872
				Sum of GTIs [s]
			ontime0	10170.559040599
				Sum of GTIs [s]
			ontime1	10170.559040599
				Sum of GTIs [s]
			ontime2	10173.899990812
				Sum of GTIs [s]
			ontime3	10170.559040591
				Sum of GTIs [s]
			ontime6	10167.21805045
				Sum of GTIs [s]
			ontime7	10157.195179872
				Sum of GTIs [s]
			l1events	900095
				Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	26696	26588	25759	25548	146180	649324
rejected events	7688	7532	7215	7498	10998	23273
rejected %	28%	28%	28%	29%	7%	3%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4658	4716	4722	4624	55088	125552
	17%	17%	18%	18%	37%	19%
grade 1 events	51	55	57	52	479	596
	0%	0%	0%	0%	0%	0%
grade 2 events	4193	3845	4066	3683	25707	145637
	15%	14%	15%	14%	17%	22%
grade 3 events	1921	1940	1786	1776	9933	50000
	7%	7%	6%	6%	6%	7%
grade 4 events	1710	1850	1661	1631	9835	49351
	6%	6%	6%	6%	6%	7%
grade 5 events	7474	7305	7002	7309	9378	17228
	27%	27%	27%	28%	6%	2%
grade 6 events	6661	6825	6454	6473	35760	260947
	24%	25%	25%	25%	24%	40%
grade 7 events	28	52	11	0	0	13
	0%	0%	0%	0%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	221.4484576799522	Alternating exposures requested	N	N
Pointing Dec	0	-8.864093580480381	Primary exposure time	0	3.3
Pointing Roll	0.0	252.8534540871814			
SIM focus pos (mm)	-0.782348	0.255451383487682			
SIM defocus (mm)	0	0.9397188447875782			
SIM translation stage pos (mm)	-233.592463	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	50179552.375	50179550.05739			
Observation start date	1999-08-04T18:45:52	1999-08-04T18:45:50			
Observation stop time	50191665.985	50191663.507817			
Observation end date	1999-08-04T22:07:46	1999-08-04T22:07:43			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.157195179872

## A.2 Comments

This ACIS internal calibration observation was acquired before the ACIS door was open. A reflection of the door is visible in the image.

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Focal plane temperature is warmer than -118.7 C degrees during this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation.

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The CCD bias map for CCD\_ID = 2 was incomplete because of a data gap in telemetry. The bias map for chip 2 were reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps.