

# V&V Reference Report

## L2 ASCDS Version : 8.3.2.1

Observation 62374 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Sep 28 2010

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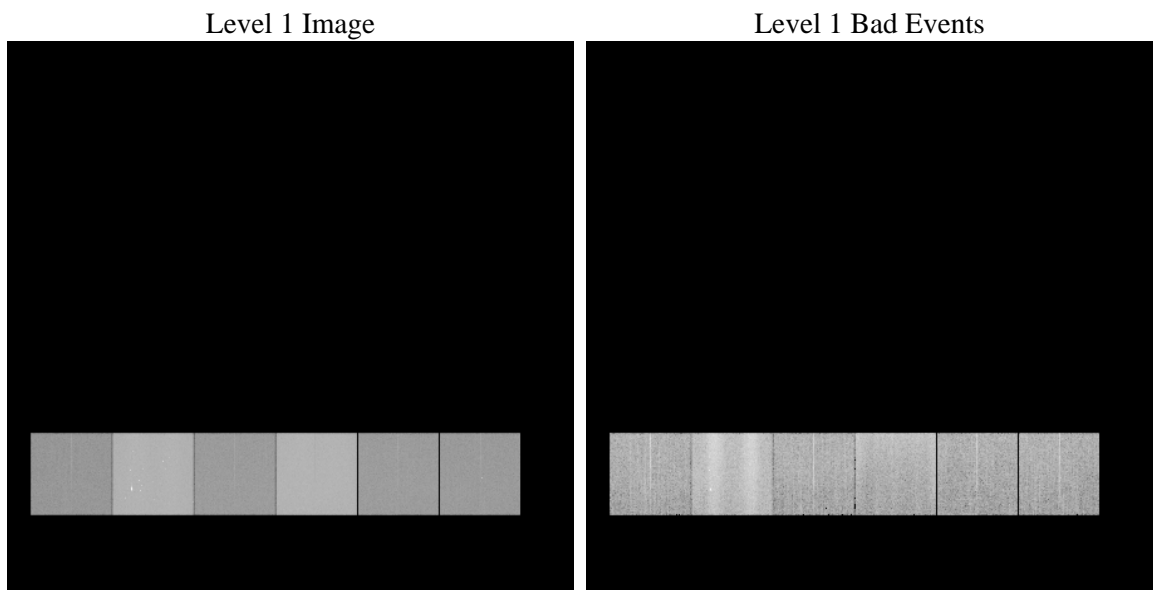
# 1 Front

seq_num	&#160	Sequence number
obs_id	62374	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	1.4020646471222	Nominal RA
dec_nom	-0.044942041907003	Nominal Dec
roll_nom	359.37109366557	Nominal Roll
revision	4	Processing version of data
ontime	7565.1260400265	Sum of GTIs [s]
livetime	7533.8946223195	Livetime [s]
ontime4	3056.6863730922	Sum of GTIs [s]
ontime5	8042.287950933	Sum of GTIs [s]
ontime6	3429.6570227742	Sum of GTIs [s]
ontime7	7565.1260400265	Sum of GTIs [s]
ontime8	3464.2279728577	Sum of GTIs [s]
ontime9	3419.7159827799	Sum of GTIs [s]
l2events	2488566	Number of level 2 events

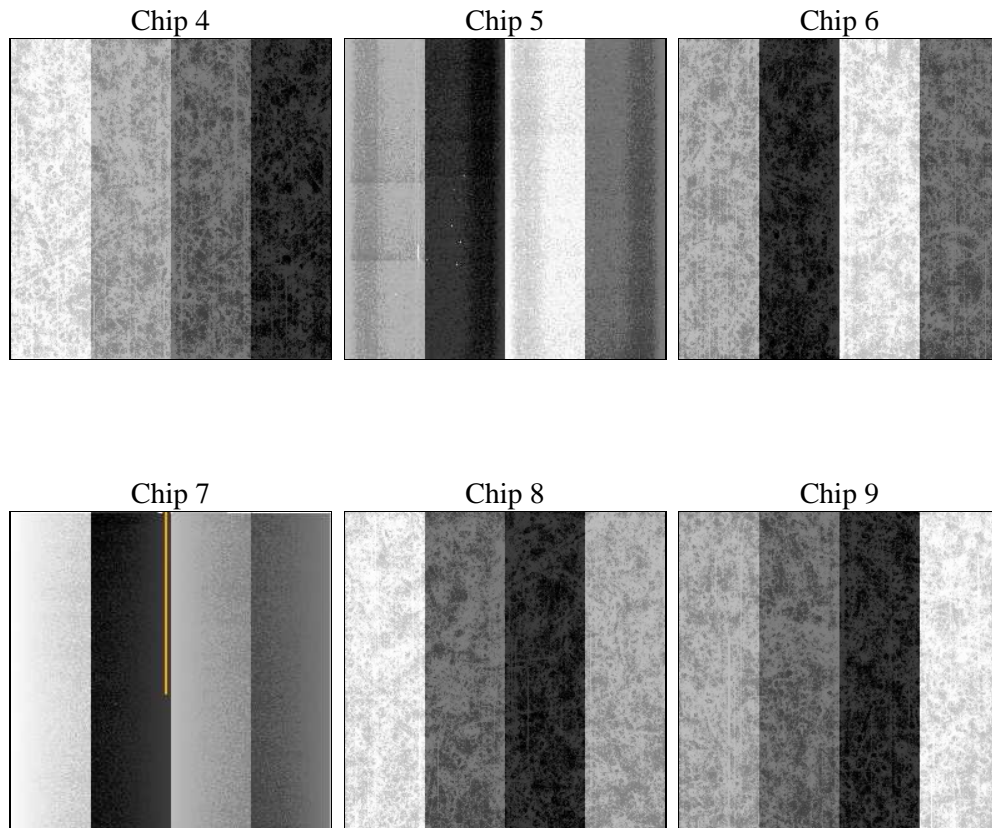
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.4 Events

sched_exp_time	0.0	Scheduled observation exposure time
ontime	7565.1260400265	Sum of GTIs [s]
ontime4	3056.6863730922	Sum of GTIs [s]
ontime5	8042.287950933	Sum of GTIs [s]
ontime6	3429.6570227742	Sum of GTIs [s]
ontime7	7565.1260400265	Sum of GTIs [s]
ontime8	3464.2279728577	Sum of GTIs [s]
ontime9	3419.7159827799	Sum of GTIs [s]
l1events	2939366	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	59639	77352	84243	136277	114806	91476
	20%	9%	23%	16%	32%	27%
grade 1 events	630	568	816	637	1178	874
	0%	0%	0%	0%	0%	0%
grade 2 events	120274	261812	132491	208501	110947	118084
	40%	33%	37%	25%	31%	35%
grade 3 events	6180	35294	8783	64087	12413	9623
	2%	4%	2%	7%	3%	2%
grade 4 events	6152	30438	8805	57509	12450	9629
	2%	3%	2%	7%	3%	2%
grade 5 events	3530	13401	3950	11929	4215	3999
	1%	1%	1%	1%	1%	1%
grade 6 events	45203	264010	59034	271215	54018	53807
	15%	33%	16%	33%	15%	15%
grade 7 events	53870	105512	54131	58300	47707	49567
	18%	13%	15%	7%	13%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	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	1.402064647122169	Alternating exposures requested	N	N
Pointing Dec	0	-0.04494204190700317	Primary exposure time	0.000000	9.9
Pointing Roll	0.0	359.3710936655746			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.4459185577885			
SIM translation stage offset (mm)	0	0.01005983576618519			
Observation start time	54882365.28	54882364.464611			
Observation start date	1999-09-28T05:06:05	1999-09-28T05:06:04			
Observation end time	54900665.631	54900664.815269			
Observation end date	1999-09-28T10:11:06	1999-09-28T10:11:04			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5651260400265

## A.2 Comments

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.