

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62337 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 20 2009

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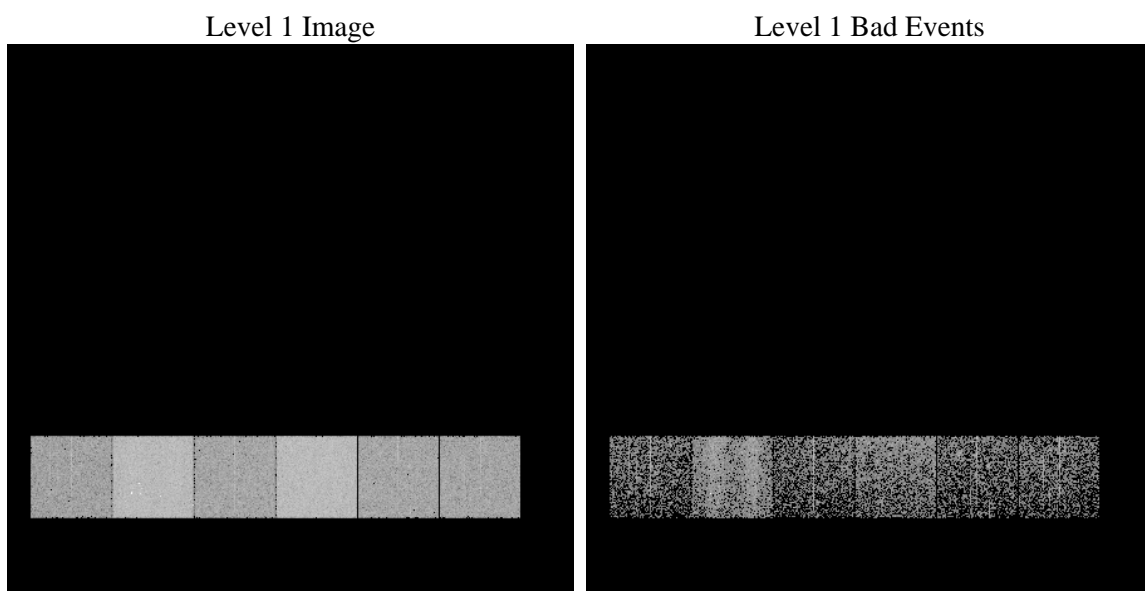
# 1 Front

seq_num	&#160	Sequence number
obs_id	62337	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	101.30381232739	Nominal RA
dec_nom	-16.692297203859	Nominal Dec
roll_nom	72.429297403759	Nominal Roll
revision	4	Processing version of data
ontime	580.00486386567	Sum of GTIs [s]
livetime	572.66049304241	Livetime [s]
ontime4	259.26676945388	Sum of GTIs [s]
ontime5	615.43582351506	Sum of GTIs [s]
ontime6	285.15391978621	Sum of GTIs [s]
ontime7	580.00486386567	Sum of GTIs [s]
ontime8	278.72783397138	Sum of GTIs [s]
ontime9	275.12916730344	Sum of GTIs [s]
l2events	205503	Number of level 2 events

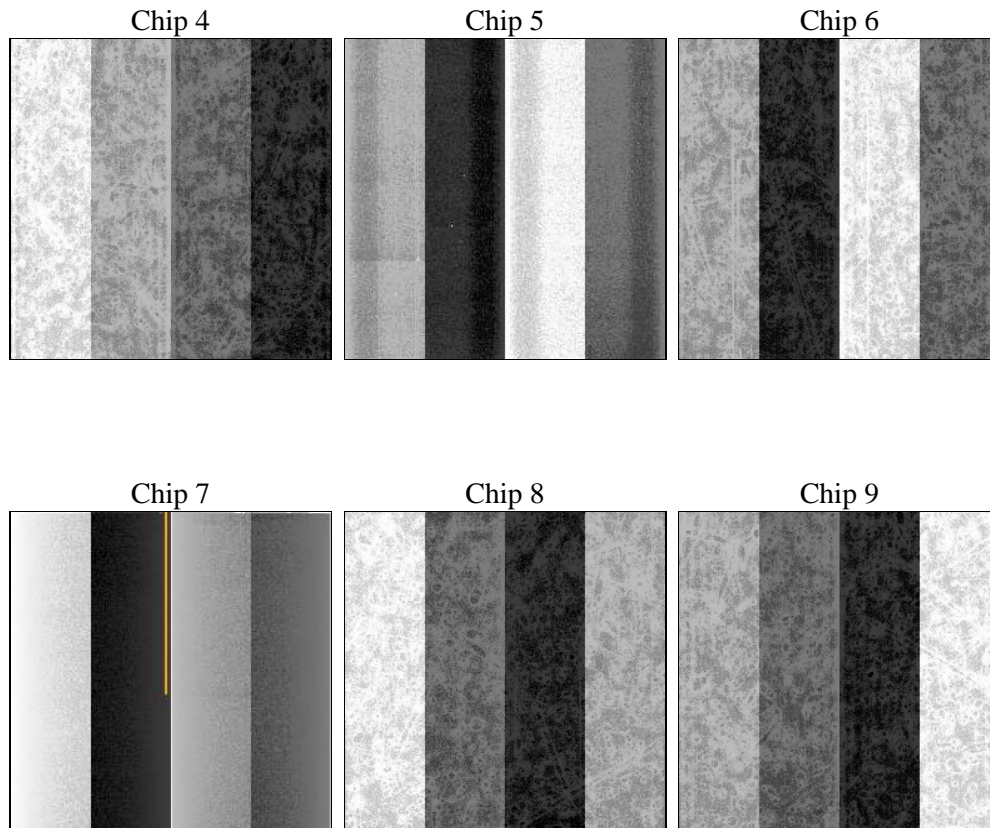
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.1	ASCDS version number		
caldsver	4.1.4	&#160		
date	2009-11-20T20:14:15	Date and time of file creation		
revision	3	Processing version of data		
			sched_exp_time	0.0
				Scheduled observation exposure time
			ontime	580.00486386567
				Sum of GTIs [s]
			ontime4	259.26676945388
				Sum of GTIs [s]
			ontime5	615.43582351506
				Sum of GTIs [s]
			ontime6	285.15391978621
				Sum of GTIs [s]
			ontime7	580.00486386567
				Sum of GTIs [s]
			ontime8	278.72783397138
				Sum of GTIs [s]
			ontime9	275.12916730344
				Sum of GTIs [s]
			l1events	244358
				Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	26909	62259	31072	63442	30894	29782
rejected events	4528	10442	4457	6523	4402	4478
rejected %	16%	16%	14%	10%	14%	15%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	5353	5604	7401	10104	9073	7694
	19%	9%	23%	15%	29%	25%
grade 1 events	17	39	35	26	37	30
	0%	0%	0%	0%	0%	0%
grade 2 events	11806	20283	12363	15965	10707	11290
	43%	32%	39%	25%	34%	37%
grade 3 events	498	2652	735	4882	906	813
	1%	4%	2%	7%	2%	2%
grade 4 events	564	2367	731	4378	969	812
	2%	3%	2%	6%	3%	2%
grade 5 events	224	1085	291	902	265	259
	0%	1%	0%	1%	0%	0%
grade 6 events	4160	20911	5385	21590	4837	4695
	15%	33%	17%	34%	15%	15%
grade 7 events	4287	9318	4131	5595	4100	4189
	15%	14%	13%	8%	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	101.3038123273936	Alternating exposures requested	N	N
Pointing Dec	0	-16.69229720385881	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	72.42929740375905			
SIM focus pos (mm)	-0.684267	-1.508139491973113			
SIM defocus (mm)	0	0.02519714743118384			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	57378603.173	57378602.404509			
Observation start date	1999-10-27T02:30:03	1999-10-27T02:30:02			
Observation end time	57381729.423	57381728.654622			
Observation end date	1999-10-27T03:22:09	1999-10-27T03:22:08			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.58000486386567

## A.2 Comments

The focal plane temperature is approximately -110C during this observation.

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.