

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62349 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Nov 19 2009

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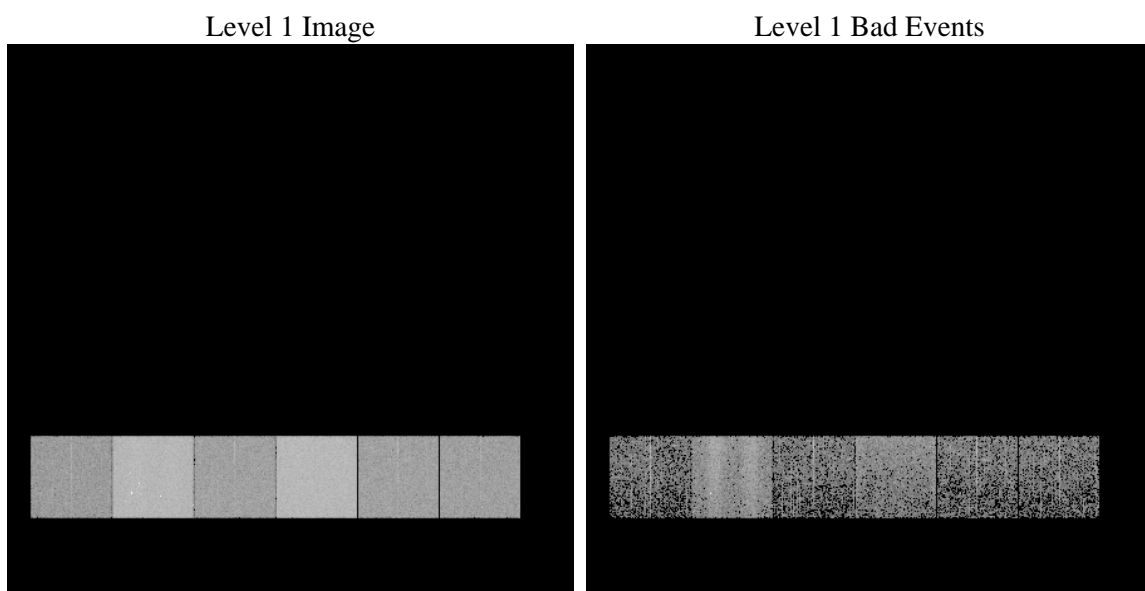
# 1 Front

seq_num	&#160	Sequence number
obs_id	62349	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	119.95640809286	Nominal RA
dec_nom	-66.576761607567	Nominal Dec
roll_nom	94.917603931718	Nominal Roll
revision	3	Processing version of data
ontime	1293.4854643196	Sum of GTIs [s]
livetime	1277.1065725269	Livetime [s]
ontime4	507.85408627987	Sum of GTIs [s]
ontime5	1377.7509079352	Sum of GTIs [s]
ontime6	592.24411671609	Sum of GTIs [s]
ontime7	1293.4854643196	Sum of GTIs [s]
ontime8	580.4596465081	Sum of GTIs [s]
ontime9	575.99790661782	Sum of GTIs [s]
l2events	431672	Number of level 2 events

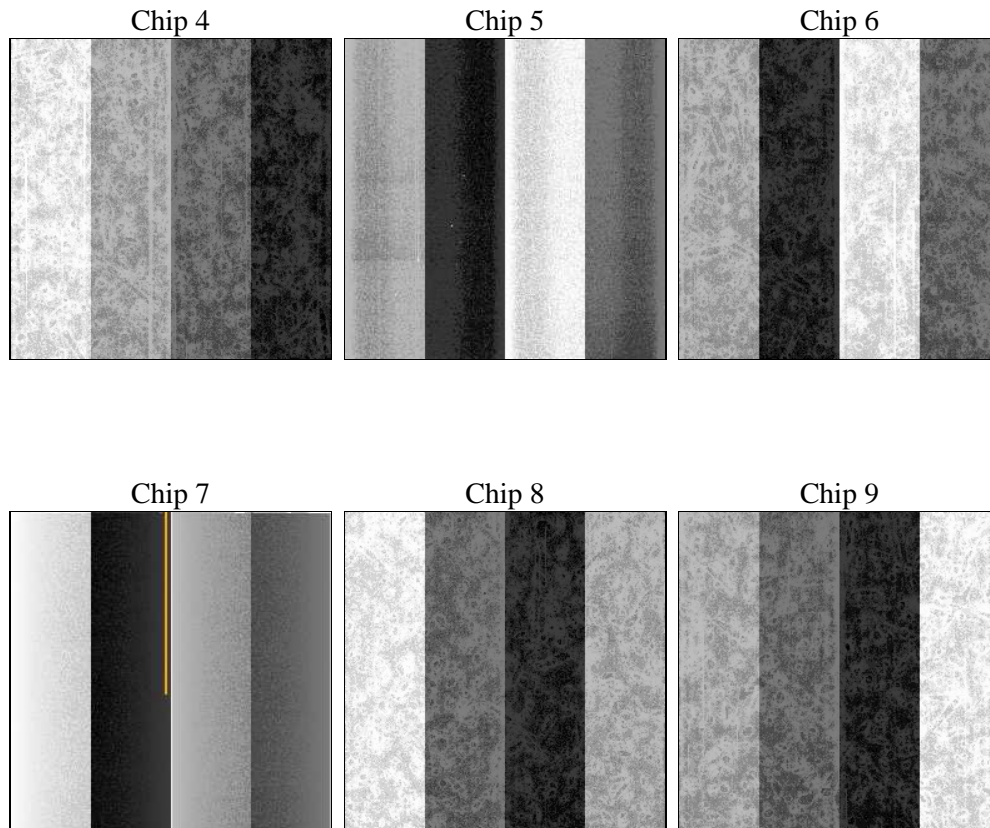
## 2 OBI

### 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	sched_exp_time	0.0
caldsver	4.1.4	&#160		Scheduled observation exposure time
date	2009-11-20T00:16:01	Date and time of file creation	ontime	1293.4854643196
revision	3	Processing version of data	ontime4	507.85408627987
			ontime5	1377.7509079352
			ontime6	592.24411671609
			ontime7	1293.4854643196
			ontime8	580.4596465081
			ontime9	575.99790661782
			l1events	513275
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	51974	135549	63585	138984	63427	59756	grade 0 events	10294	12246	14983	22303	19096	16285
rejected events	8514	22715	9165	13785	9376	8475		19%	9%	23%	16%	30%	27%
rejected %	16%	16%	14%	9%	14%	14%	grade 1 events	35	45	60	56	82	73
								0%	0%	0%	0%	0%	0%
							grade 2 events	23073	43729	25650	35329	21361	22168
								44%	32%	40%	25%	33%	37%
							grade 3 events	1056	5834	1550	10984	2109	1666
								2%	4%	2%	7%	3%	2%
							grade 4 events	1047	4978	1465	9769	2025	1693
								2%	3%	2%	7%	3%	2%
							grade 5 events	436	2326	502	1969	568	494
								0%	1%	0%	1%	0%	0%
							grade 6 events	7990	46305	10772	47140	9780	9469
								15%	34%	16%	33%	15%	15%
							grade 7 events	8043	20086	8603	11434	8406	7908
								15%	14%	13%	8%	13%	13%

## 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	119.9564080928642	Alternating exposures requested	N	N
Pointing Dec	0	-66.57676160756742	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	94.91760393171788			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	56448499.689	56448498.920986			
Observation start date	1999-10-16T08:08:20	1999-10-16T08:08:18			
Observation end time	56469143.19	56469142.421729			
Observation end date	1999-10-16T13:52:23	1999-10-16T13:52:22			
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	1.2934854643196

## 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.