

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62336 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 20 2009

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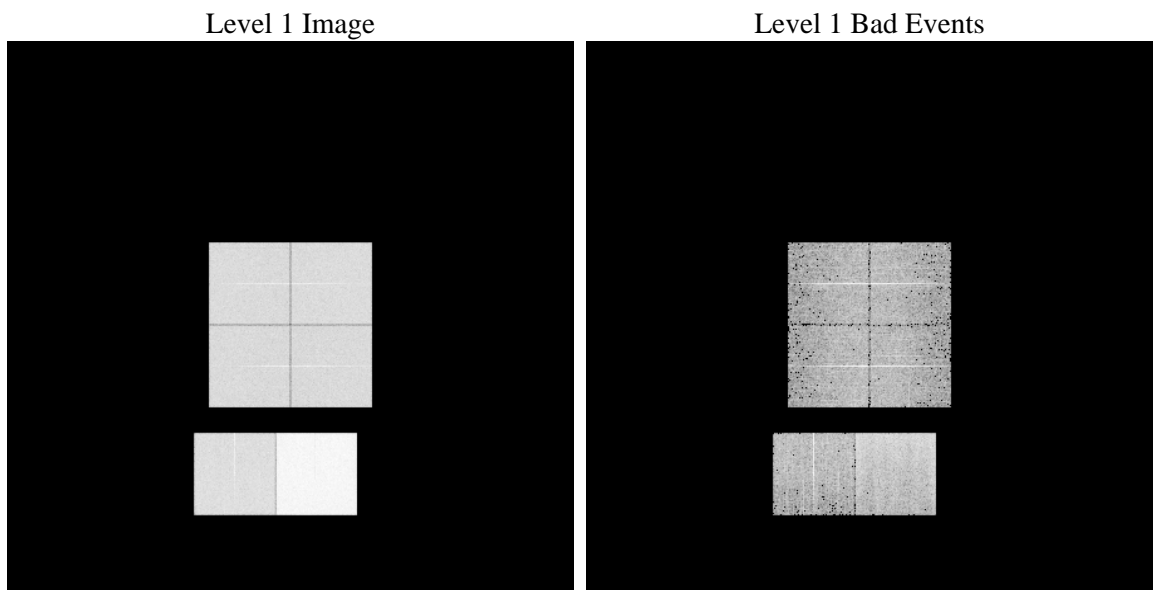
# 1 Front

seq_num	&#160	Sequence number
obs_id	62336	Observation id
title	ACIS-012367 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	101.30672262814	Nominal RA
dec_nom	-16.690649549558	Nominal Dec
roll_nom	72.43953067639	Nominal Roll
revision	4	Processing version of data
ontime	4897.1858558208	Sum of GTIs [s]
livetime	4835.1747397831	Livetime [s]
ontime0	1896.0070172474	Sum of GTIs [s]
ontime1	1941.7872197852	Sum of GTIs [s]
ontime2	1824.7042169049	Sum of GTIs [s]
ontime3	1818.2221967429	Sum of GTIs [s]
ontime6	2087.2285472006	Sum of GTIs [s]
ontime7	4897.1858558208	Sum of GTIs [s]
l2events	1311754	Number of level 2 events

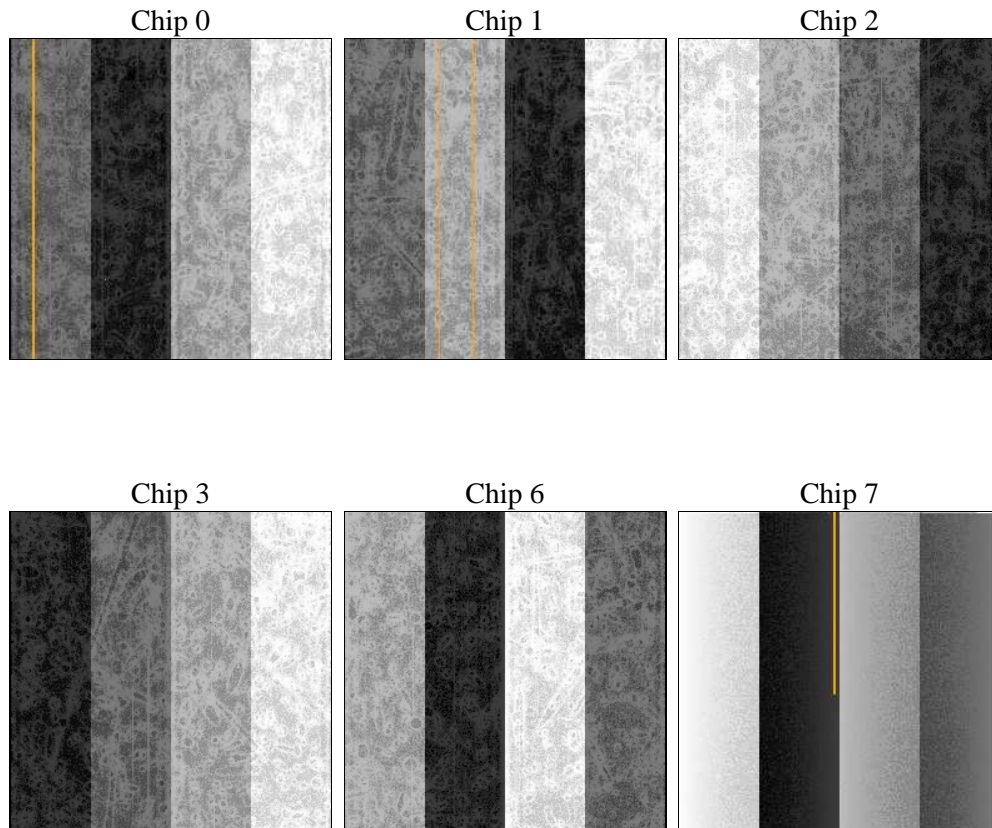
## 2 OBI

### 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	2009-11-20T20:20:11	Date and time of file creation	ontime	4897.1858558208
revision	3	Processing version of data	ontime0	1896.0070172474
			ontime1	1941.7872197852
			ontime2	1824.7042169049
			ontime3	1818.2221967429
			ontime6	2087.2285472006
			ontime7	4897.1858558208
			l1events	1517126
				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 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	194511	200751	190103	189423	222322	520016	grade 0 events	62121	64384	51329	53769	53307	85096
rejected events	25998	27231	27948	27667	32401	50332		31%	32%	27%	28%	23%	16%
rejected %	13%	13%	14%	14%	14%	9%	grade 1 events	238	273	219	245	195	188
								0%	0%	0%	0%	0%	0%
							grade 2 events	63274	65343	70836	68605	88483	131786
								32%	32%	37%	36%	39%	25%
							grade 3 events	6616	6893	5358	5608	5531	40475
								3%	3%	2%	2%	2%	7%
							grade 4 events	6587	6934	5500	5438	5495	36490
								3%	3%	2%	2%	2%	7%
							grade 5 events	1654	1697	1626	1678	1825	7371
								0%	0%	0%	0%	0%	1%
							grade 6 events	29915	30252	29132	28336	37105	175837
								15%	15%	15%	14%	16%	33%
							grade 7 events	24106	24975	26103	25744	30381	42773
								12%	12%	13%	13%	13%	8%

## 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	101.3067226281389	Alternating exposures requested	N	N
Pointing Dec	0	-16.69064954955788	Primary exposure time	3.2	3.2
Pointing Roll	0.0	72.43953067639028			
SIM focus pos (mm)	-0.782348	-1.508139491973113			
SIM defocus (mm)	0	0.02519714743118384			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	57388404.223345	57388403.454863			
Observation start date	1999-10-27T05:13:24	1999-10-27T05:13:23			
Observation end time	57398646.023715	57398645.255232			
Observation end date	1999-10-27T08:04:06	1999-10-27T08:04:05			
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	4.8971858558208

## 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 chip (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.