

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62284 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Nov 25 2009

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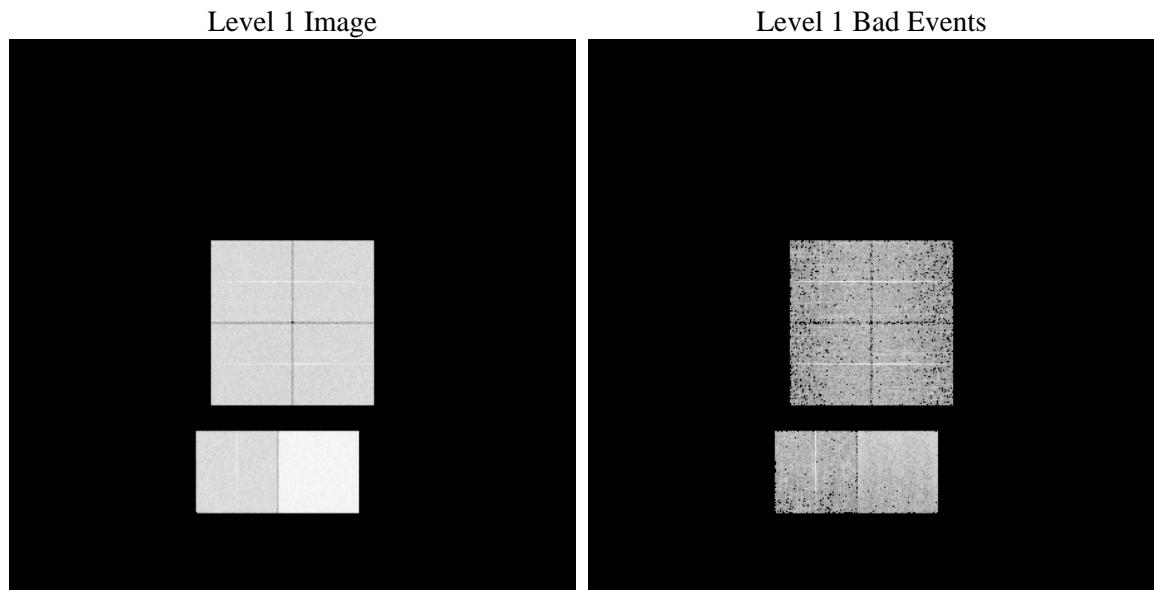
# 1 Front

seq_num	&#160	Sequence number
obs_id	62284	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtim commanding	Principal investig
object	&#160	Source name
dtycycle	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	189.98056200803	Nominal RA
dec_nom	-33.944718451346	Nominal Dec
roll_nom	85.503948085993	Nominal Roll
revision	4	Processing version of data
ontime	3733.947903268	Sum of GTIs [s]
livetime	3686.6664066034	Livetime [s]
ontime0	1672.6692635566	Sum of GTIs [s]
ontime1	1701.8386036679	Sum of GTIs [s]
ontime2	1620.812773101	Sum of GTIs [s]
ontime3	1640.2591527849	Sum of GTIs [s]
ontime6	1760.1773836389	Sum of GTIs [s]
ontime7	3733.947903268	Sum of GTIs [s]
l2events	838331	Number of level 2 events

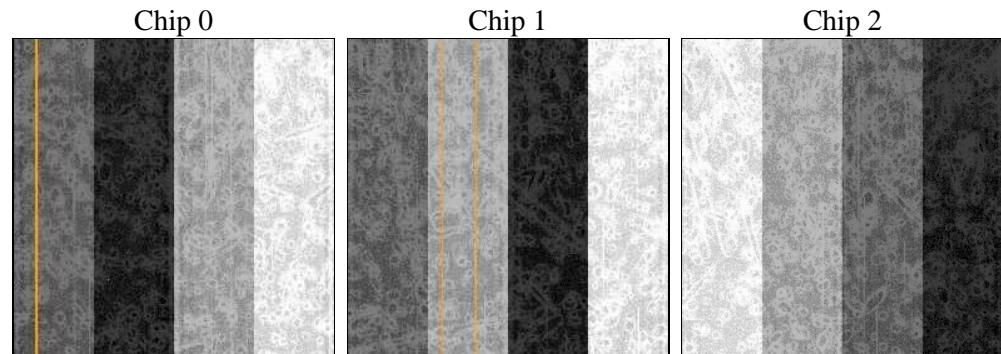
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number		sched_exp_time	0.0	Scheduled observation exposure time
ascdsver	8.1.1	ASCDs version number		ontime	3733.947903268	Sum of GTIs [s]
caldbver	4.1.4	&#160		ontime0	1672.6692635566	Sum of GTIs [s]
date	2009-11-25T14:27:02	Date and time of file creation		ontime1	1701.8386036679	Sum of GTIs [s]
revision	3	Processing version of data		ontime2	1620.812773101	Sum of GTIs [s]
				ontime3	1640.2591527849	Sum of GTIs [s]
				ontime6	1760.1773836389	Sum of GTIs [s]
				ontime7	3733.947903268	Sum of GTIs [s]
				l1events	986958	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	128595	129619	122611	126937	140195	339001	grade 0 events	39026	40618	31959	34815	32515	54437
rejected events	20910	19118	19676	20812	23275	35775		30%	31%	26%	27%	23%	16%
rejected %	16%	14%	16%	16%	16%	10%	grade 1 events	163	178	108	158	103	139
								0%	0%	0%	0%	0%	0%
							grade 2 events	41080	41821	45684	45474	54660	84024
								31%	32%	37%	35%	38%	24%
							grade 3 events	4239	4218	3286	3695	3366	25979
								3%	3%	2%	2%	2%	7%
							grade 4 events	4335	4327	3272	3588	3537	23465
								3%	3%	2%	2%	2%	6%
							grade 5 events	1141	1152	1037	1173	1174	4938
								0%	0%	0%	0%	0%	1%
							grade 6 events	19010	19524	18739	18553	22847	115401
								14%	15%	15%	14%	16%	34%
							grade 7 events	19601	17781	18526	19481	21993	30618
								15%	13%	15%	15%	15%	9%

## 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	189.9805620080309	Alternating exposures requested	N	N
Pointing Dec	0	-33.94471845134639	Primary exposure time	3.2	3.2
Pointing Roll	0.0	85.50394808599266			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.4635187648994			
SIM translation stage offset (mm)	0	-0.007540371344731511			
Observation start time	60809360.297145	60809359.528446			
Observation start date	1999-12-05T19:29:20	1999-12-05T19:29:19			
Observation end time	60816844.847418	60816844.078717			
Observation end date	1999-12-05T21:34:05	1999-12-05T21:34:04			
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)	2010.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.733947903268

## A.2 Comments

The focal plane temperature is approximately -110C 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.