

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62323 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

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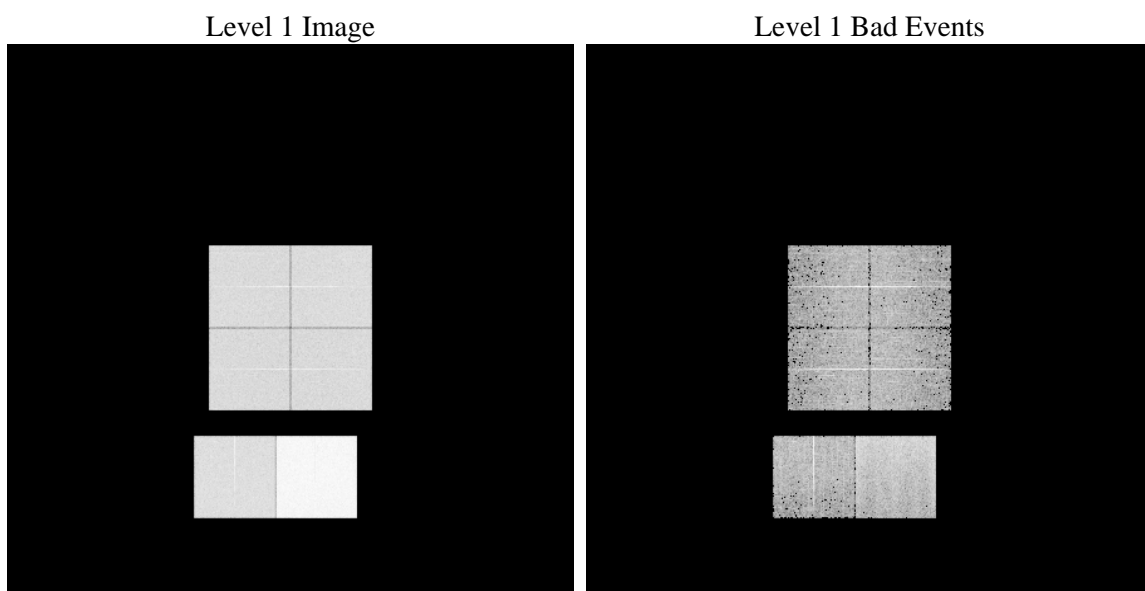
# 1 Front

seq_num	&#160	Sequence number
obs_id	62323	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	141.79162880675	Nominal RA
dec_nom	39.668207795208	Nominal Dec
roll_nom	70.956255701956	Nominal Roll
revision	4	Processing version of data
ontime	4936.0761702135	Sum of GTIs [s]
livetime	4873.572601598	Livetime [s]
ontime0	1908.9711871371	Sum of GTIs [s]
ontime1	1960.8278272375	Sum of GTIs [s]
ontime2	1811.7400467992	Sum of GTIs [s]
ontime3	1824.7042666823	Sum of GTIs [s]
ontime6	2090.2476333752	Sum of GTIs [s]
ontime7	4936.0761702135	Sum of GTIs [s]
l2events	1313792	Number of level 2 events

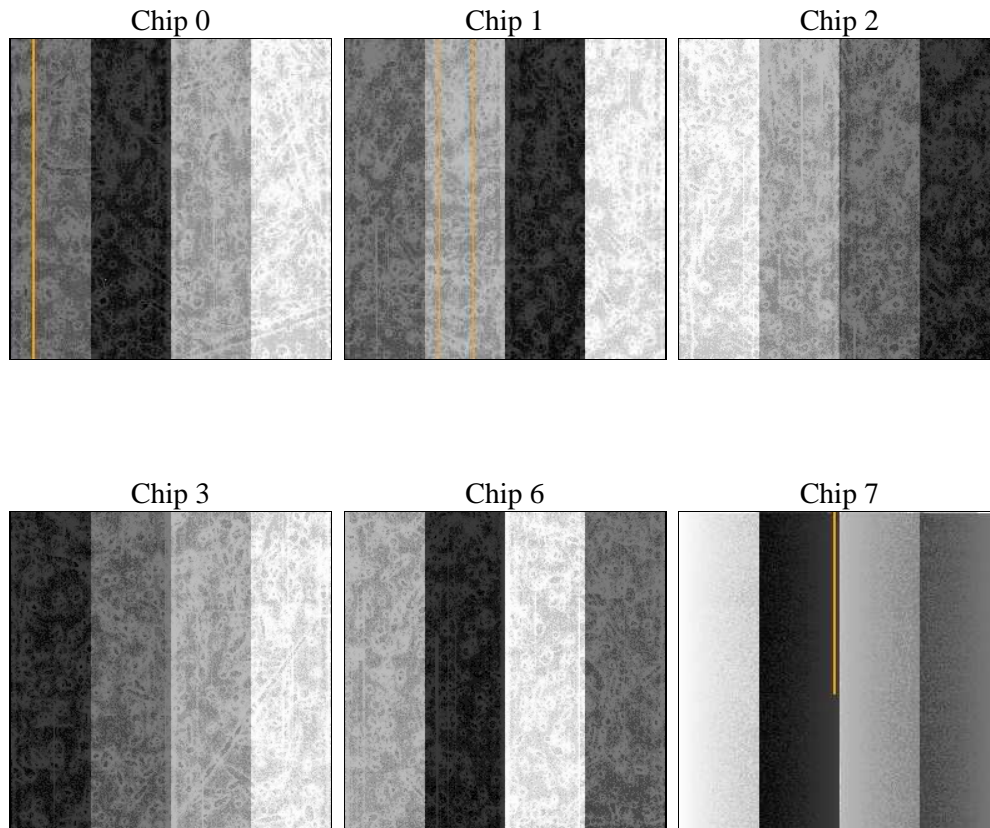
## 2 OBI

### 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	2009-11-21T13:09:59	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	4936.0761702135	Sum of GTIs [s]
ontime0	1908.9711871371	Sum of GTIs [s]
ontime1	1960.8278272375	Sum of GTIs [s]
ontime2	1811.7400467992	Sum of GTIs [s]
ontime3	1824.7042666823	Sum of GTIs [s]
ontime6	2090.2476333752	Sum of GTIs [s]
ontime7	4936.0761702135	Sum of GTIs [s]
l1events	1516772	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	194959	201240	188165	189230	221874	521304
rejected events	26394	26860	27916	27538	31520	49079
rejected %	13%	13%	14%	14%	14%	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	141.7916288067514	Alternating exposures requested	N	N
Pointing Dec	0	39.6682077952078	Primary exposure time	3.2	3.2
Pointing Roll	0.0	70.95625570195614			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	58243889.754217	58243888.985739			
Observation start date	1999-11-06T02:51:30	1999-11-06T02:51:28			
Observation end time	58288950.805844	58288950.037365			
Observation end date	1999-11-06T15:22:31	1999-11-06T15:22:30			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9360761702135

## A.2 Comments

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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.