

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62342 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 20 2009

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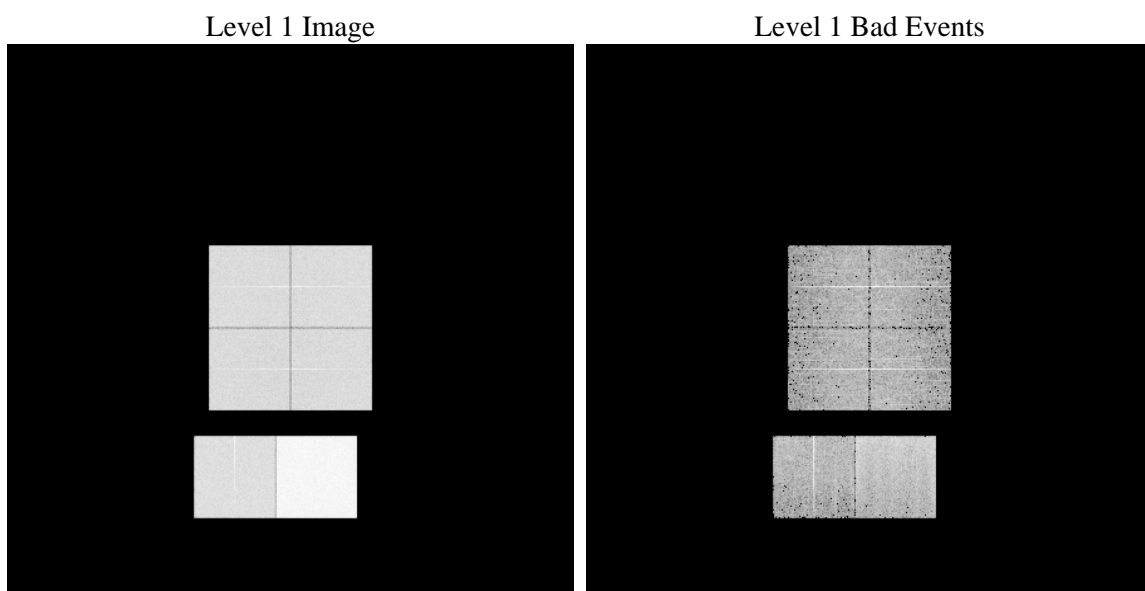
# 1 Front

seq_num	&#160	Sequence number
obs_id	62342	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	350.85248622268	Nominal RA
dec_nom	58.801432079655	Nominal Dec
roll_nom	226.11931427786	Nominal Roll
revision	4	Processing version of data
ontime	4821.1457362473	Sum of GTIs [s]
livetime	4760.0974859895	Livetime [s]
ontime0	1906.4145147949	Sum of GTIs [s]
ontime1	1933.4832428545	Sum of GTIs [s]
ontime2	1813.605802618	Sum of GTIs [s]
ontime3	1838.3527544513	Sum of GTIs [s]
ontime6	2078.1895752698	Sum of GTIs [s]
ontime7	4821.1457362473	Sum of GTIs [s]
l2events	1313132	Number of level 2 events

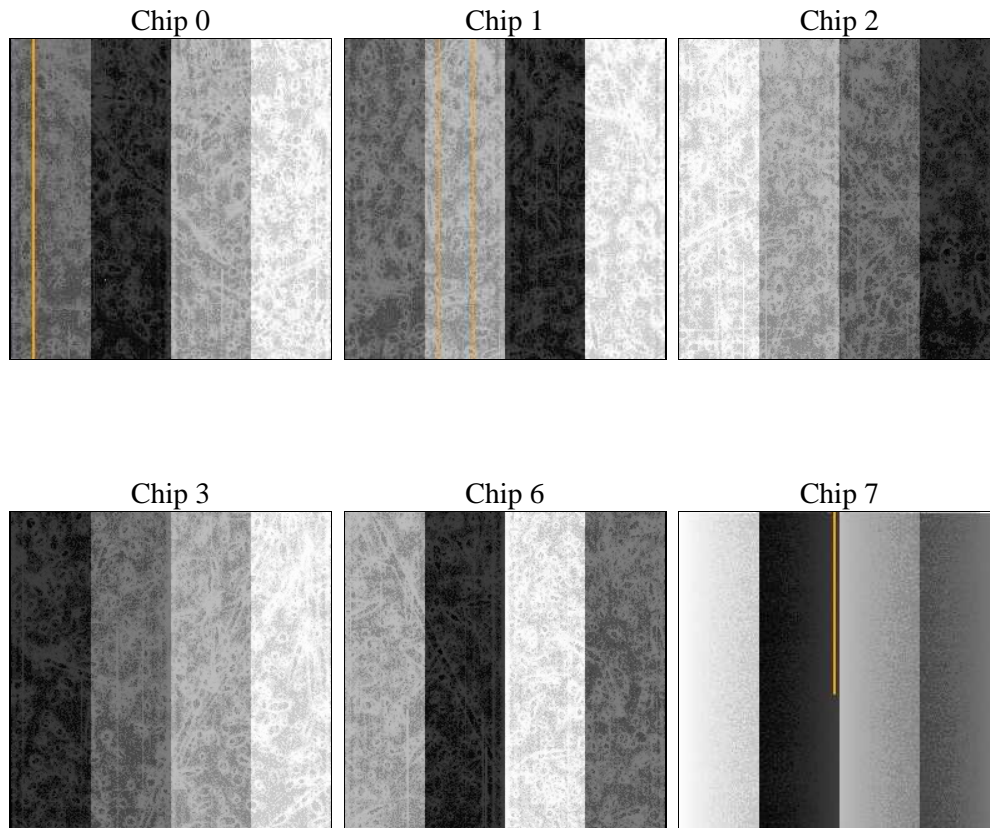
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	<table><tr><td>sched_exp_time</td><td>0.0</td><td>Scheduled observation exposure time</td></tr><tr><td>ontime</td><td>4821.1457362473</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime0</td><td>1906.4145147949</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime1</td><td>1933.4832428545</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime2</td><td>1813.605802618</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime3</td><td>1838.3527544513</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime6</td><td>2078.1895752698</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime7</td><td>4821.1457362473</td><td>Sum of GTIs [s]</td></tr><tr><td>l1events</td><td>1518262</td><td>Number of level 1 events</td></tr></table>	sched_exp_time	0.0	Scheduled observation exposure time	ontime	4821.1457362473	Sum of GTIs [s]	ontime0	1906.4145147949	Sum of GTIs [s]	ontime1	1933.4832428545	Sum of GTIs [s]	ontime2	1813.605802618	Sum of GTIs [s]	ontime3	1838.3527544513	Sum of GTIs [s]	ontime6	2078.1895752698	Sum of GTIs [s]	ontime7	4821.1457362473	Sum of GTIs [s]	l1events	1518262	Number of level 1 events
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ontime7	4821.1457362473	Sum of GTIs [s]																												
l1events	1518262	Number of level 1 events																												
ascdsver	8.1.1	ASCDS version number																												
caldsver	4.1.4	&#160																												
date	2009-11-20T20:11:04	Date and time of file creation																												
revision	3	Processing version of data																												

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	197540	200699	189479	193994	222175	514375
rejected events	26663	26870	27841	28844	31775	49302
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	350.8524862226751	Alternating exposures requested	N	N
Pointing Dec	0	58.80143207965466	Primary exposure time	3.2	3.2
Pointing Roll	0.0	226.119314277855			
SIM focus pos (mm)	-0.782348	-1.038866356238299			
SIM defocus (mm)	0	0.4944702831659975			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	57104616.563095	57104615.794629			
Observation start date	1999-10-23T22:23:37	1999-10-23T22:23:35			
Observation end time	57148857.614692	57148856.846224			
Observation end date	1999-10-24T10:40:58	1999-10-24T10:40:56			
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	4.8211457362473

## 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.