

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62257 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 26 2009

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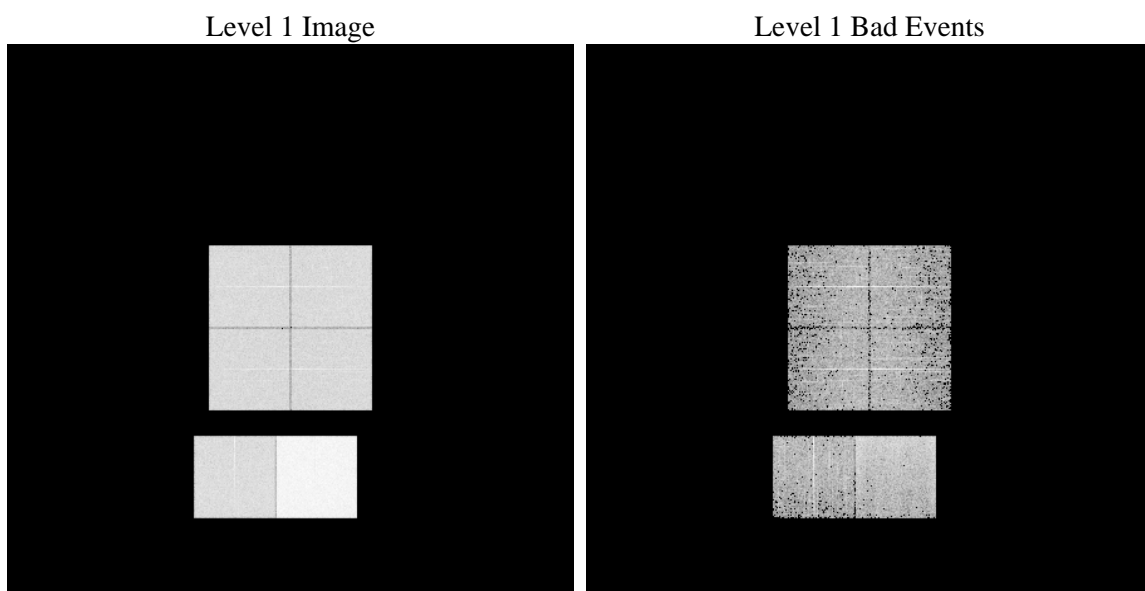
# 1 Front

seq_num	&#160	Sequence number
obs_id	62257	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	90.049691916044	Nominal RA
dec_nom	-59.985258628407	Nominal Dec
roll_nom	358.70760210094	Nominal Roll
revision	4	Processing version of data
ontime	3490.5307290405	Sum of GTIs [s]
livetime	3446.3315272041	Livetime [s]
ontime0	1422.7240356654	Sum of GTIs [s]
ontime1	1432.5384464264	Sum of GTIs [s]
ontime2	1351.512615785	Sum of GTIs [s]
ontime3	1345.0304460526	Sum of GTIs [s]
ontime6	1484.395096533	Sum of GTIs [s]
ontime7	3490.5307290405	Sum of GTIs [s]
l2events	919840	Number of level 2 events

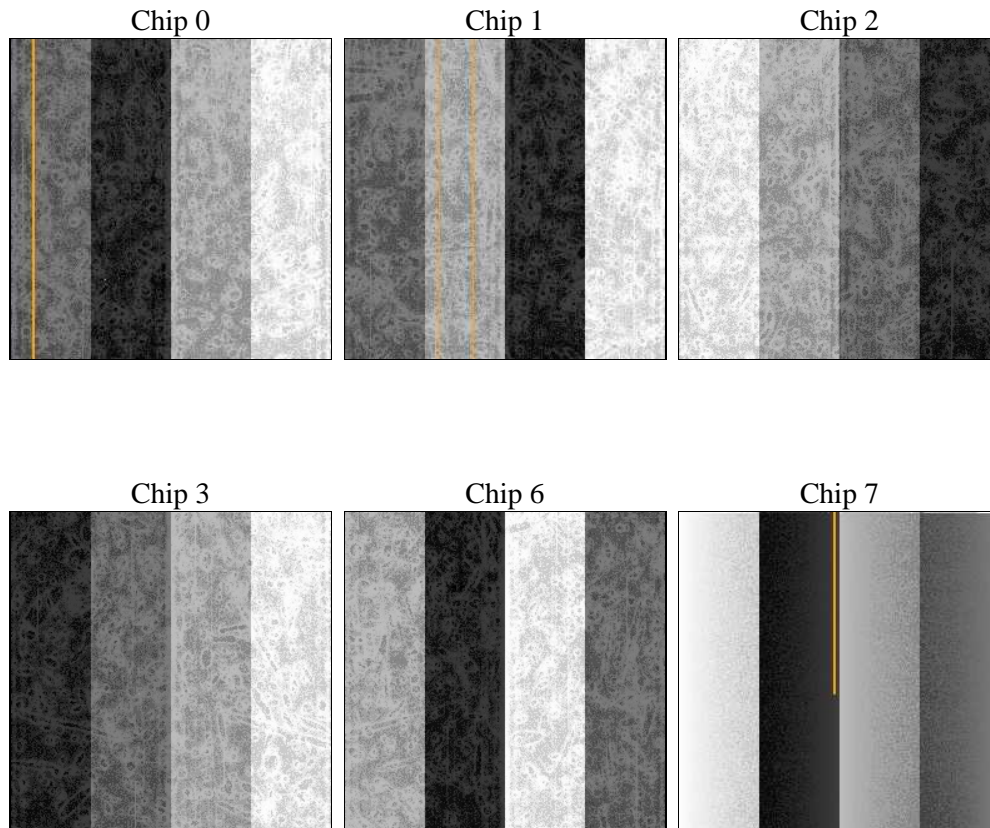
## 2 OBI

### 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		
date	2009-11-26T10:04:11	Date and time of file creation	ontime	3490.5307290405
revision	3	Processing version of data	ontime0	1422.7240356654
			ontime1	1432.5384464264
			ontime2	1351.512615785
			ontime3	1345.0304460526
			ontime6	1484.395096533
			ontime7	3490.5307290405
			l1events	1060468

### 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	141261	141778	135360	134917	152674	354478	grade 0 events	45760	45819	37048	38374	35800	59707
rejected events	19053	18533	18955	19216	22105	33226		32%	32%	27%	28%	23%	16%
rejected %	13%	13%	14%	14%	14%	9%	grade 1 events	218	196	157	142	136	133
								0%	0%	0%	0%	0%	0%
							grade 2 events	45509	46204	50733	49033	61565	89760
								32%	32%	37%	36%	40%	25%
							grade 3 events	4773	4945	3870	3967	3715	28051
								3%	3%	2%	2%	2%	7%
							grade 4 events	4787	4885	3773	4038	3699	25777
								3%	3%	2%	2%	2%	7%
							grade 5 events	1098	1170	1140	1116	1225	4867
								0%	0%	0%	0%	0%	1%
							grade 6 events	21379	21392	20981	20289	25790	117957
								15%	15%	15%	15%	16%	33%
							grade 7 events	17737	17167	17658	17958	20744	28226
								12%	12%	13%	13%	13%	7%

## 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	90.04969191604384	Alternating exposures requested	N	N
Pointing Dec	0	-59.98525862840695	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	358.7076021009403			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	62353611.003	62353610.234354			
Observation start date	1999-12-23T16:26:51	1999-12-23T16:26:50			
Observation end time	62362028.303	62362027.534659			
Observation end date	1999-12-23T18:47:08	1999-12-23T18:47:07			
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	3.4905307290405

## 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.