

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 60667 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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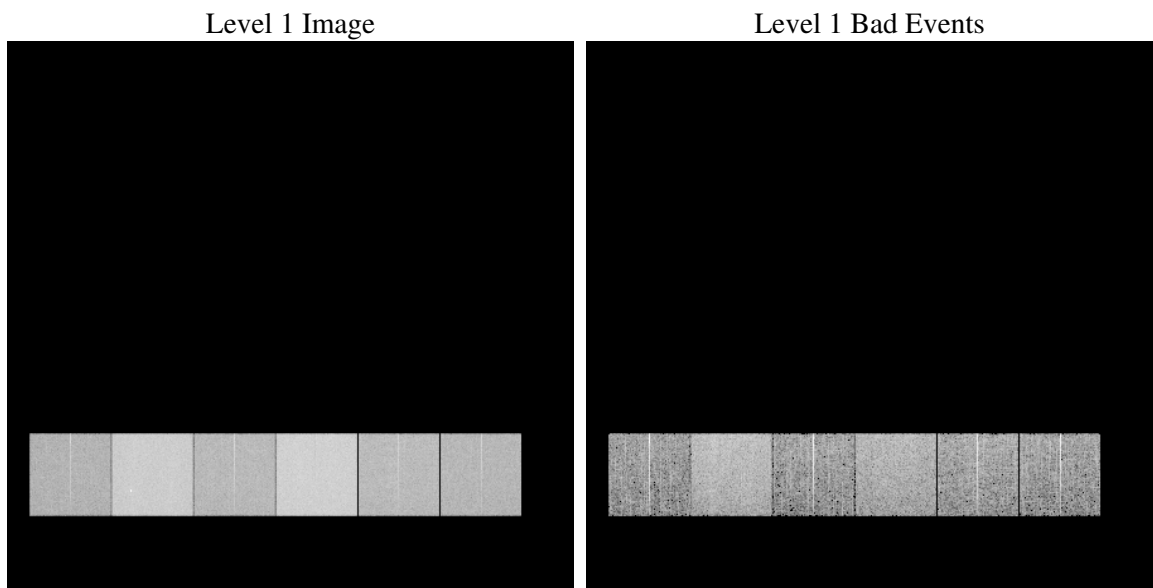
# 1 Front

seq_num	&#160
obs_id	60667
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	&#160
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	345.76682599221
dec_nom	-3.294544784715
roll_nom	115.69307841665
revision	3
ontime	8403.1999686956
livetime	8296.7935908925
ontime4	4056.7506157756
ontime5	8403.1999686956
ontime6	4484.8601894975
ontime7	8403.1999686956
ontime8	4594.7972624004
ontime9	4293.6404932737
l2events	1244076

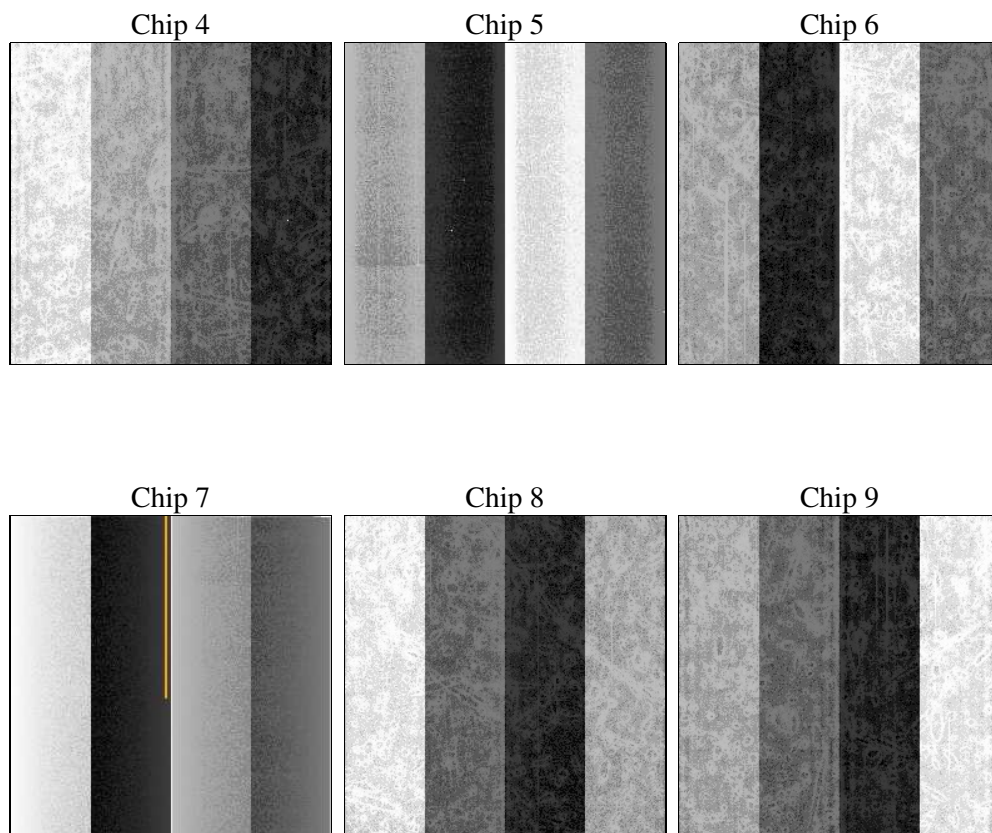
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-04T16:46:59
revision	3

sched_exp_time	16260
ontime	8403.1999686956
ontime4	4056.7506157756
ontime5	8403.1999686956
ontime6	4484.8601894975
ontime7	8403.1999686956
ontime8	4594.7972624004
ontime9	4293.6404932737
l1events	1538417

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	179415	349285	210145	383191	220312	196069
rejected events	30866	57355	32218	46283	35804	32039
rejected %	17%	16%	15%	12%	16%	16%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	87901	60908	97997	84204	102187	91748
	48%	17%	46%	21%	46%	46%
grade 1 events	614	218	439	206	493	493
	0%	0%	0%	0%	0%	0%
grade 2 events	23267	112937	31028	74040	32566	28039
	12%	32%	14%	19%	14%	14%
grade 3 events	9772	16433	11010	34544	11849	10521
	5%	4%	5%	9%	5%	5%
grade 4 events	9724	16111	10931	33585	11776	10474
	5%	4%	5%	8%	5%	5%
grade 5 events	1826	9121	2147	8386	2455	2128
	1%	2%	1%	2%	1%	1%
grade 6 events	18818	87518	28266	112819	27610	24501
	10%	25%	13%	29%	12%	12%
grade 7 events	27493	46039	28327	35407	31376	28165
	15%	13%	13%	9%	14%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
Pointing RA	345.7668259922086	345.7668259922086	Subarray requested	NONE	NONE
Pointing Dec	-3.294544784714978	-3.294544784714978	Alternating exposures requested	N	N
Pointing Roll	115.6930784166498	115.6930784166498	Primary exposure time	3.2	3.2
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
SIM defocus (mm)	0.8505140384245534	0.8505140384245534			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
SIM translation stage offset (mm)	-0.01005726120527584	-0.01005726120527584			
Observation start time	174119884.282039	174119884.282039			
Observation start date	2003-07-09T06:48:00	2003-07-09T06:38:04			
Observation end time	174141359.778984	174141359.778984			
Observation end date	2003-07-09T11:19:00	2003-07-09T12:35:59			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Craig Anderson
V&V Date (YYYY-MM-DD)	2009.02.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4031999686956

## A.2 Comments

Focal plane temperature is warmer than -118 degrees during initial ~6 ksec of observation. The ACIS calibrations are not verified or necessarily applicable for focal plane temperatures warmer than -118 degrees.

This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.