

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 61270 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Feb 5 2009

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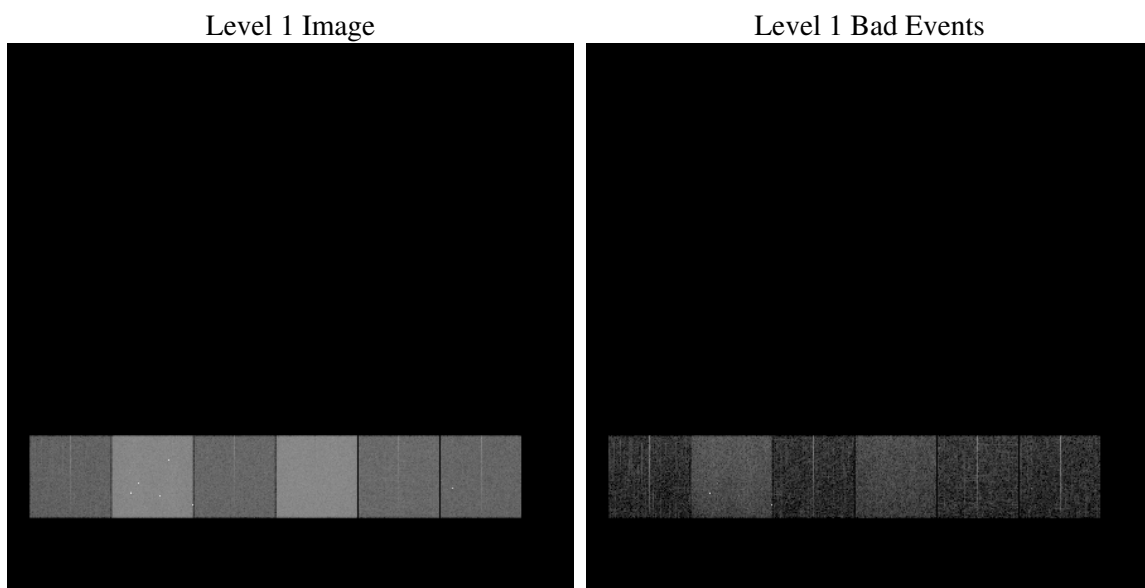
# 1 Front

seq_num	&#160
obs_id	61270
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	186.24921678555
dec_nom	-19.796430306287
roll_nom	32.659917434933
revision	4
ontime	6620.3282001913
livetime	6536.4976182374
ontime4	2375.48381944
ontime5	6987.3276603967
ontime6	2576.386850372
ontime7	6620.3282001913
ontime8	2708.4577403367
ontime9	2547.0943804383
l2events	1195528

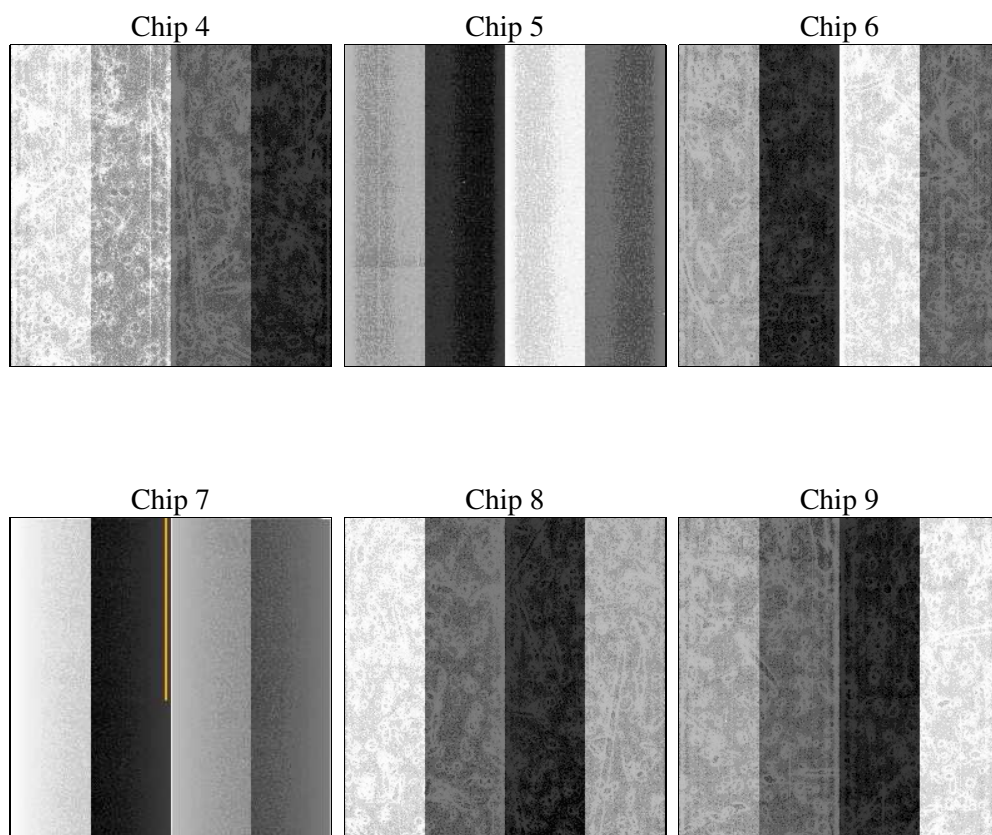
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-02-05T07:55:41
revision	4

sched_exp_time	7980
ontime	6620.3282001913
ontime4	2375.48381944
ontime5	6987.3276603967
ontime6	2576.386850372
ontime7	6620.3282001913
ontime8	2708.4577403367
ontime9	2547.0943804383
l1events	1449924

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	143560	400554	163732	407488	176573	158017
rejected events	22888	60365	22059	42591	25768	22538
rejected %	15%	15%	13%	10%	14%	14%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	68987	82161	78338	94147	84250	76174
	48%	20%	47%	23%	47%	48%
grade 1 events	377	571	409	230	397	393
	0%	0%	0%	0%	0%	0%
grade 2 events	21893	125676	24969	81738	27119	24144
	15%	31%	15%	20%	15%	15%
grade 3 events	7514	20664	8782	37740	9600	8283
	5%	5%	5%	9%	5%	5%
grade 4 events	7232	20270	8824	37459	9639	8392
	5%	5%	5%	9%	5%	5%
grade 5 events	1211	9975	1459	7249	1634	1579
	0%	2%	0%	1%	0%	0%
grade 6 events	16671	96865	22689	119397	22647	20526
	11%	24%	13%	29%	12%	12%
grade 7 events	19675	44372	18262	29528	21287	18526
	13%	11%	11%	7%	12%	11%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	186.2492167855547	186.2492167855547
Pointing Dec	-19.79643030628684	-19.79643030628684
Pointing Roll	32.6599174349334	32.6599174349334
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	132275245.6431	132275245.6431
Observation start date	2002-03-11T23:30:00	2002-03-11T23:07:25
Observation end time	132284524.709932	132284524.709932
Observation end date	2002-03-12T01:43:00	2002-03-12T01:42:04
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.6203282

## A.2 Comments

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.

Focal plane temperature is warmer than -118.7 C degrees during the latter ~3 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation.