

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 61077 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 5 2009

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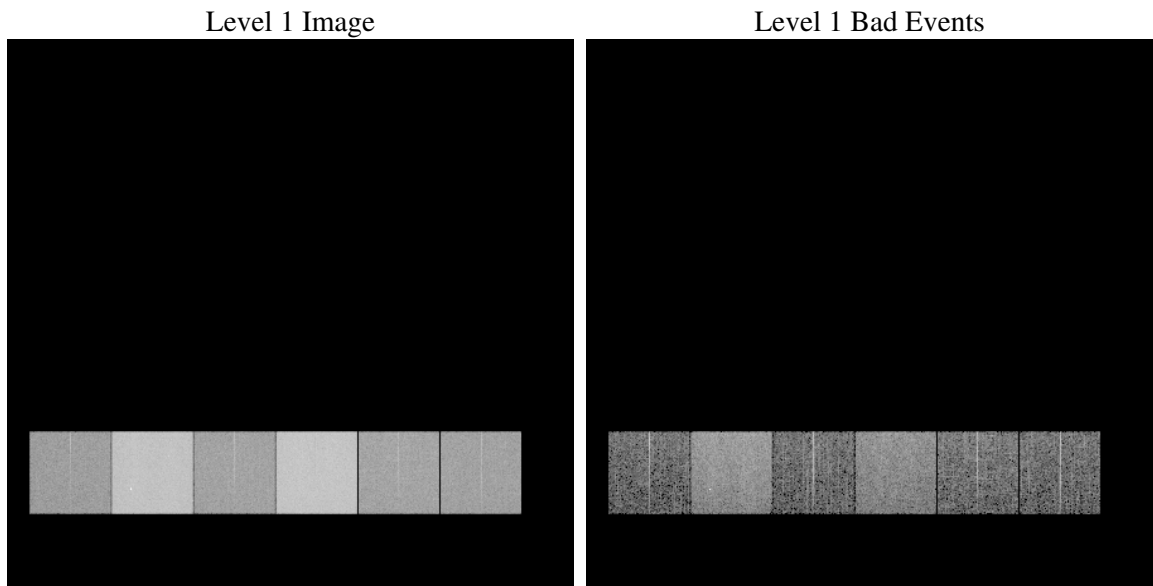
# 1 Front

seq_num	&#160
obs_id	61077
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	308.44281904225
dec_nom	-48.000364642097
roll_nom	326.43243059165
revision	3
ontime	8098.9589056969
livetime	7996.4050114254
ontime4	2961.9973587394
ontime5	8371.1999688148
ontime6	3179.1461516619
ontime7	8098.9589056969
ontime8	3275.20349738
ontime9	3184.2495062053
l2events	1301991

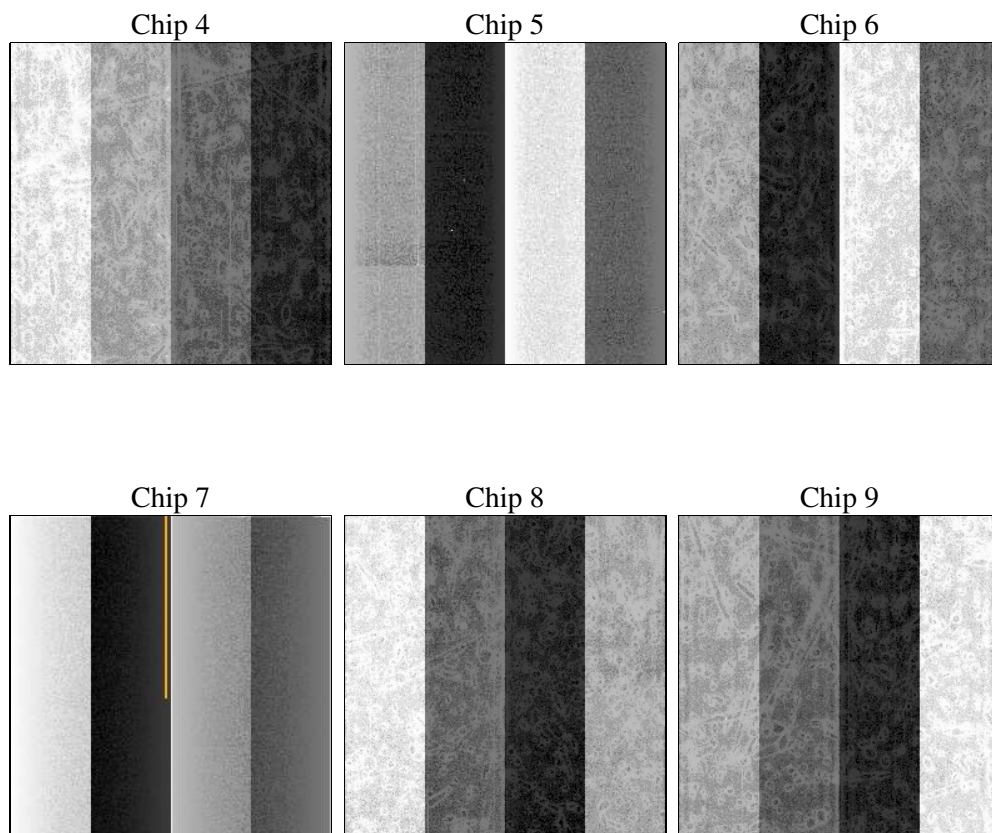
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-02-05T05:07:45
revision	3

sched_exp_time	4140
ontime	8098.9589056969
ontime4	2961.9973587394
ontime5	8371.1999688148
ontime6	3179.1461516619
ontime7	8098.9589056969
ontime8	3275.20349738
ontime9	3184.2495062053
l1events	1556895

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	156816	413991	180606	441144	189259	175079
rejected events	22348	58281	23820	45199	26796	23653
rejected %	14%	14%	13%	10%	14%	13%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	79579	81049	86659	101264	90805	84908
	50%	19%	47%	22%	47%	48%
grade 1 events	559	239	349	285	423	437
	0%	0%	0%	0%	0%	0%
grade 2 events	20879	133527	27435	88242	28436	25895
	13%	32%	15%	20%	15%	14%
grade 3 events	8803	21726	9642	40473	10492	9774
	5%	5%	5%	9%	5%	5%
grade 4 events	8972	21662	9612	40300	10505	9856
	5%	5%	5%	9%	5%	5%
grade 5 events	1428	9892	1660	8042	1792	1631
	0%	2%	0%	1%	0%	0%
grade 6 events	17232	101505	25406	130225	24001	22675
	10%	24%	14%	29%	12%	12%
grade 7 events	19364	44391	19843	32313	22805	19903
	12%	10%	10%	7%	12%	11%

## 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	308.4428190422516	308.4428190422516	Subarray requested	NONE	NONE
Pointing Dec	-48.00036464209656	-48.00036464209656	Alternating exposures requested	N	N
Pointing Roll	326.432430591653	326.432430591653	Primary exposure time	3.2	3.2
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673			
SIM defocus (mm)	0.7524282194390134	0.7524282194390134			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
SIM translation stage offset (mm)	-0.01005726120527584	-0.01005726120527584			
Observation start time	146250869.063858	146250869.063858			
Observation start date	2002-08-20T17:38:00	2002-08-20T17:14:29			
Observation end time	146262600	146262600			
Observation end date	2002-08-20T18:47:00	2002-08-20T20:29:59			
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)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0989589

## 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 throughout 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.