

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 61863 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : Jun 14 2007

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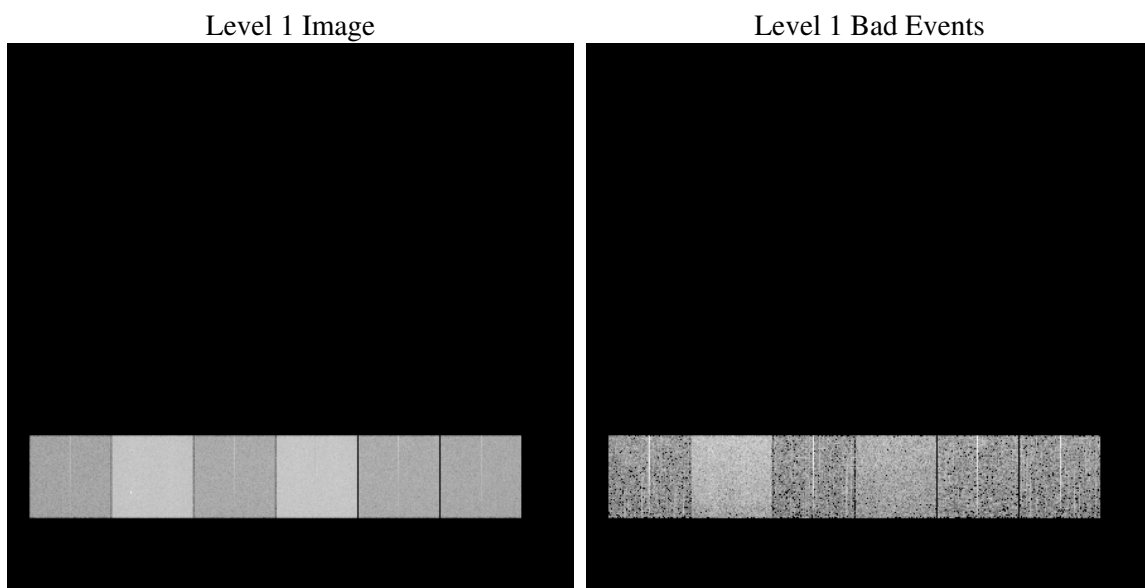
# 1 Front

seq_num	&#160
obs_id	61863
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	176.35455309697
dec_nom	56.51756683058
roll_nom	41.149556775531
revision	2
ontime	5089.0792556554
livetime	5024.6382698447
ontime4	2071.8203152269
ontime5	5468.31261307
ontime6	2266.2415251285
ontime7	5089.0792556554
ontime8	2321.4212551564
ontime9	2233.7079953402
l2events	1357983

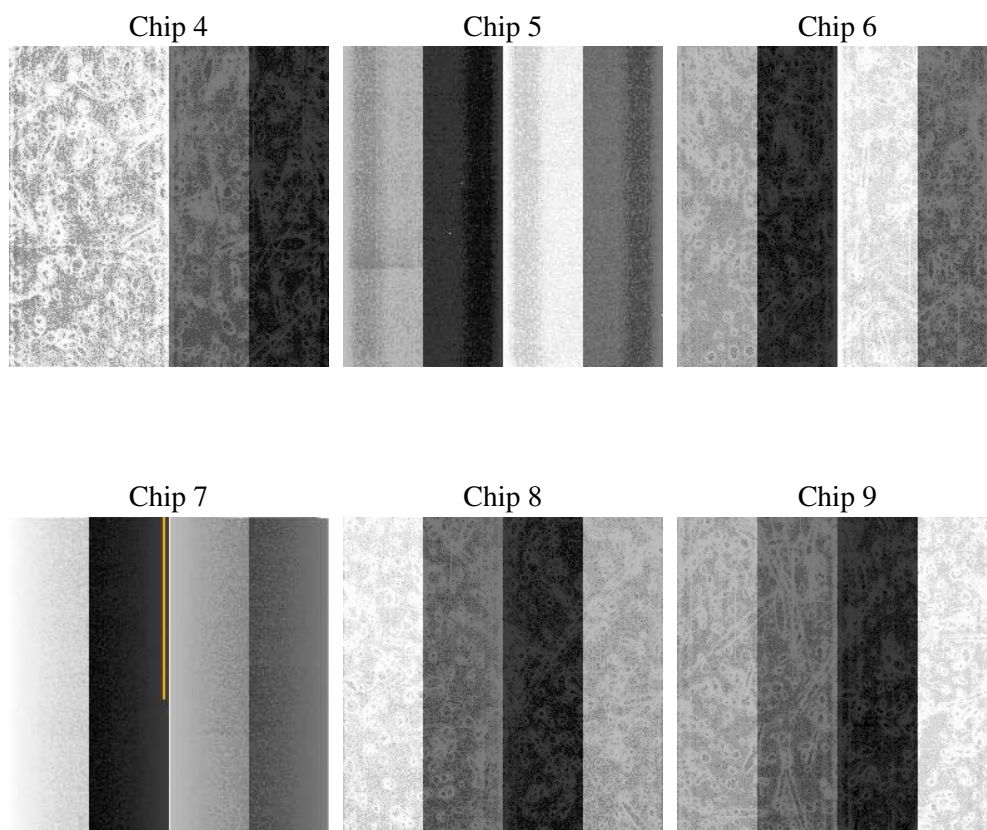
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-14T17:14:07
revision	2

sched_exp_time	0.0
ontime	5089.0792556554
ontime4	2071.8203152269
ontime5	5468.31261307
ontime6	2266.2415251285
ontime7	5089.0792556554
ontime8	2321.4212551564
ontime9	2233.7079953402
l1events	1555116

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	166592	398020	193660	411315	200154	185375
rejected events	18389	39787	18542	25917	19702	18302
rejected %	11%	9%	9%	6%	9%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	83967	86658	95778	98143	99442	91891
	50%	21%	49%	23%	49%	49%
grade 1 events	478	235	493	233	483	466
	0%	0%	0%	0%	0%	0%
grade 2 events	26298	129925	30390	84254	31986	29477
	15%	32%	15%	20%	15%	15%
grade 3 events	9193	22727	10799	39552	11653	10375
	5%	5%	5%	9%	5%	5%
grade 4 events	9047	22762	10820	39272	11160	10318
	5%	5%	5%	9%	5%	5%
grade 5 events	1284	8067	1473	5712	1495	1442
	0%	2%	0%	1%	0%	0%
grade 6 events	19955	96363	27574	124443	26437	25235
	11%	24%	14%	30%	13%	13%
grade 7 events	16370	31283	16333	19706	17498	16171
	9%	7%	8%	4%	8%	8%

## 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	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	176.3545530969716	Alternating exposures requested	N	N
Pointing Dec	0	56.51756683058012	Primary exposure time	3.2	3.2
Pointing Roll	0.0	41.14955677553147			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	89591170.76265401	89591169.99405301			
Observation start date	2000-11-02T22:26:11	2000-11-02T22:26:09			
Observation end time	89601681.11305299	89601680.34445			
Observation end date	2000-11-03T01:21:21	2000-11-03T01:21:20			
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)	2007.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.08907925

## A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 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. Users whose science objectives depend on the most accurate spectral response (i.e.: 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.