

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 61972 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : Jun 2 2007

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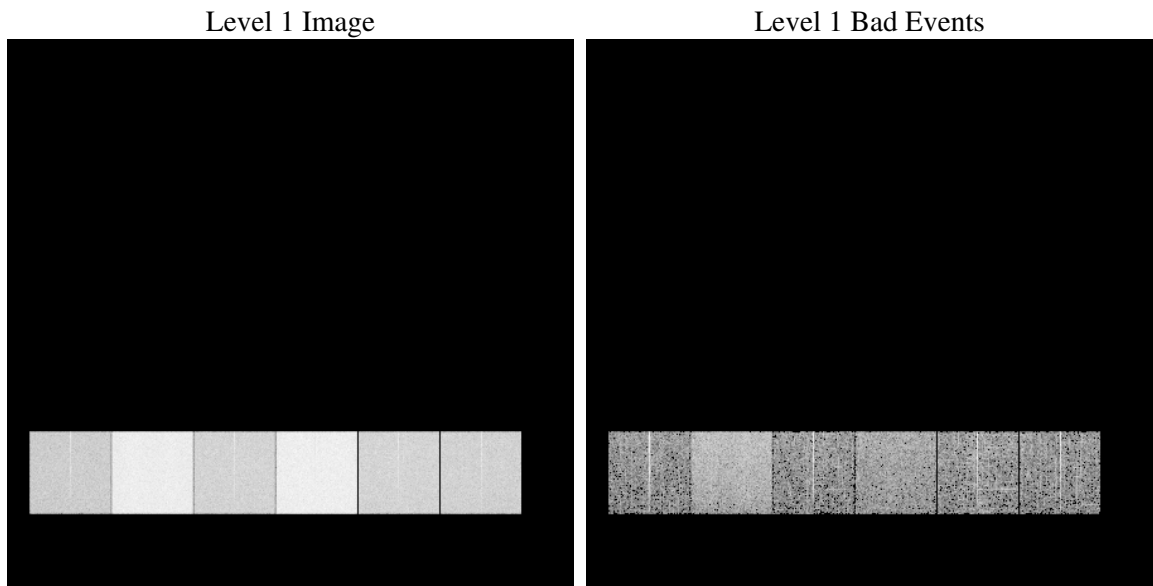
# 1 Front

seq_num	&#160
obs_id	61972
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	314.03149209241
dec_nom	-27.992731350704
roll_nom	342.31766080291
revision	3
ontime	4748.8149377704
livetime	4688.6825836353
ontime4	1987.5909467787
ontime5	5098.8804110289
ontime6	2221.0024481565
ontime7	4748.8149377704
ontime8	2250.1561762542
ontime9	2181.8890267611
l2events	1366742

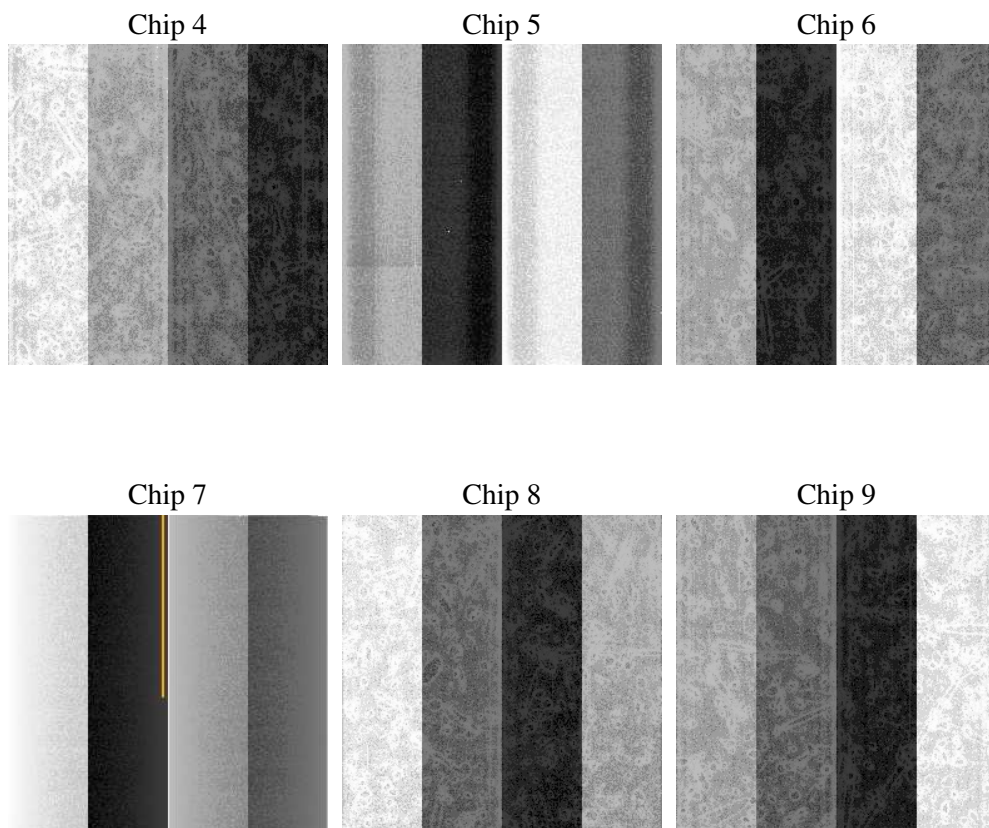
## 2 OBI

### 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	2007-06-02T13:37:30
revision	3

sched_exp_time	0.0
ontime	4748.8149377704
ontime4	1987.5909467787
ontime5	5098.8804110289
ontime6	2221.0024481565
ontime7	4748.8149377704
ontime8	2250.1561762542
ontime9	2181.8890267611
l1events	1556143

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	168472	389197	200563	404660	203632	189619
rejected events	17745	36781	17963	22451	19930	17520
rejected %	10%	9%	8%	5%	9%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	85421	84913	100492	98972	101802	94961
	50%	21%	50%	24%	49%	50%
grade 1 events	458	230	489	251	493	439
	0%	0%	0%	0%	0%	0%
grade 2 events	26995	128302	31716	84502	32404	30196
	16%	32%	15%	20%	15%	15%
grade 3 events	9046	22646	11025	39497	11453	10630
	5%	5%	5%	9%	5%	5%
grade 4 events	9101	22272	11138	38803	11586	10704
	5%	5%	5%	9%	5%	5%
grade 5 events	1207	7569	1435	5130	1463	1360
	0%	1%	0%	1%	0%	0%
grade 6 events	20419	94488	28760	120694	26710	25844
	12%	24%	14%	29%	13%	13%
grade 7 events	15825	28777	15508	16811	17721	15485
	9%	7%	7%	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	314.0314920924084	Alternating exposures requested	N	N
Pointing Dec	0	-27.99273135070403	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	342.3176608029145			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	82051899.829	82051899.06036299			
Observation start date	2000-08-07T16:11:40	2000-08-07T16:11:39			
Observation end time	82062486.029	82062485.260758			
Observation end date	2000-08-07T19:08:06	2000-08-07T19:08:05			
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)	2007.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.74881493

## A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees first 6 ksec of the observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for approximately the first 0.5 ksec of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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.