

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 60990 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : Oct 7 2006

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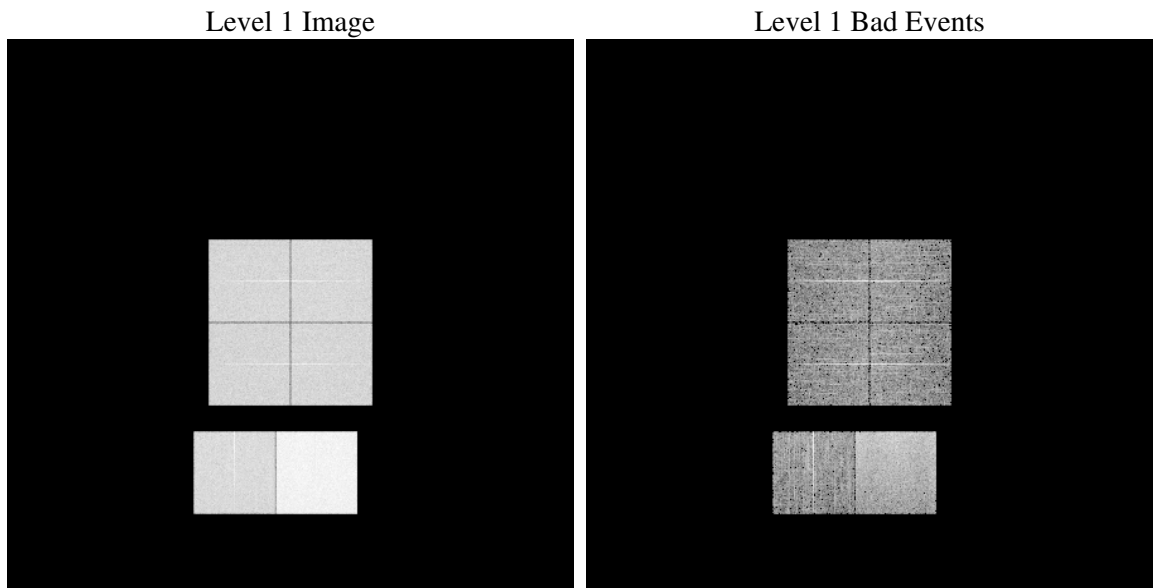
# 1 Front

seq_num	&#160
obs_id	60990
title	ACIS-012367 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	&#160
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	123.88643900246
dec_nom	46.327052775642
roll_nom	76.252886046073
revision	2
ontime	7797.56931144
livetime	7698.831793686
ontime0	3817.6990566552
ontime1	3895.5229943991
ontime2	3600.6320454478
ontime3	3681.4948814511
ontime6	3957.1845348179
ontime7	7797.56931144
l2events	1195901

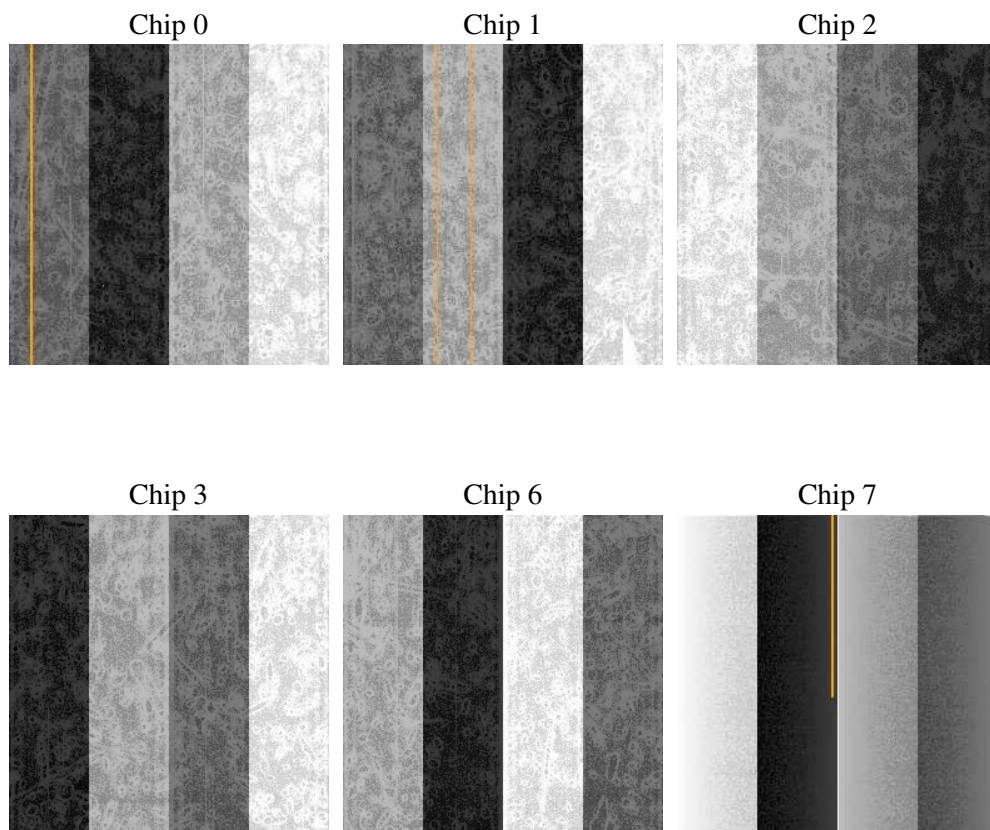
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-07T15:25:14
revision	2

sched_exp_time	0.0
ontime	7797.8453035355
ontime0	3817.9340087473
ontime1	3895.7169064879
ontime2	3600.7849175334
ontime3	3681.8119135499
ontime6	3957.29636693
ontime7	7797.8453035355
l1events	1434158

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	200614	206051	192721	197564	220612	416596
rejected events	24830	26310	24948	25905	28850	53942
rejected %	12%	12%	12%	13%	13%	12%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	96967	98944	94079	96331	104326	65498
	48%	48%	48%	48%	47%	15%
grade 1 events	534	457	534	553	554	155
	0%	0%	0%	0%	0%	0%
grade 2 events	30768	31616	28241	29295	33028	109759
	15%	15%	14%	14%	14%	26%
grade 3 events	11435	11609	10989	11205	12003	27053
	5%	5%	5%	5%	5%	6%
grade 4 events	11350	11401	10854	11078	12068	26363
	5%	5%	5%	5%	5%	6%
grade 5 events	1873	1878	1701	1849	2011	7128
	0%	0%	0%	0%	0%	1%
grade 6 events	25264	26171	23610	23750	30337	133981
	12%	12%	12%	12%	13%	32%
grade 7 events	22423	23975	22713	23503	26285	46659
	11%	11%	11%	11%	11%	11%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	123.8864390024631	Alternating exposures requested	N	N
Pointing Dec	0	46.3270527756422	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	76.25288604607326			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	151460208.329303	151460207.30459			
Observation start date	2002-10-20T00:16:48	2002-10-20T00:16:47			
Observation end time	151488186.730465	151488185.70575			
Observation end date	2002-10-20T08:03:07	2002-10-20T08:03:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



## **2.4 Star Slots**

## **2.5 FID Slots**



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.79756931

### A.2 Comments