

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 59862 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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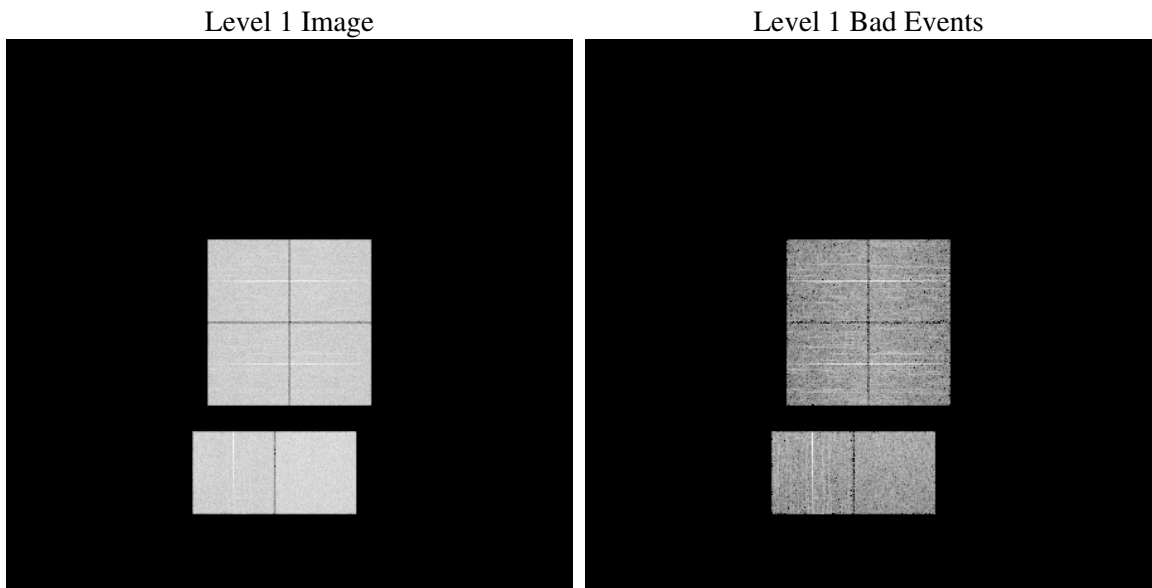
# 1 Front

seq_num	&#160
obs_id	59862
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	125.6728091559
dec_nom	27.615639903806
roll_nom	114.0846410433
revision	3
ontime	5183.9999806881
livetime	5118.3570515026
ontime0	4409.667262882
ontime1	4493.6706083119
ontime2	4283.3513505161
ontime3	4315.4166816771
ontime6	4581.1771166325
ontime7	5183.9999806881
l2events	722826

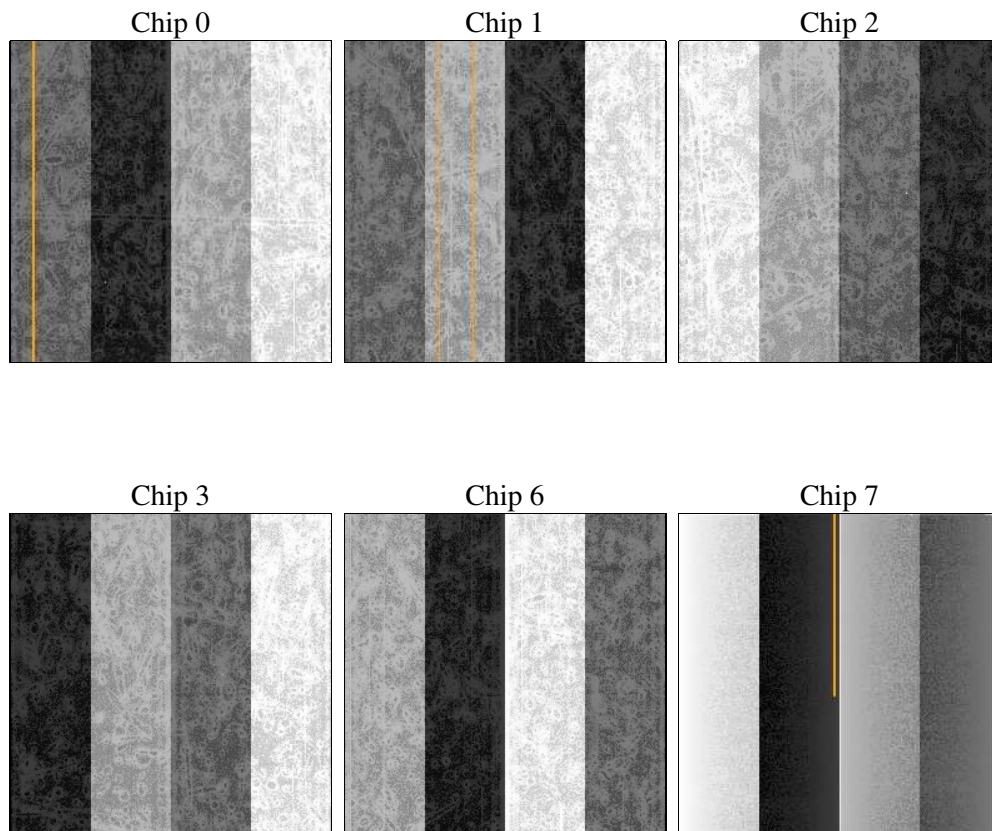
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-04T12:46:46
revision	3

sched_exp_time	4440
ontime	5183.9999806881
ontime0	4409.667262882
ontime1	4493.6706083119
ontime2	4283.3513505161
ontime3	4315.4166816771
ontime6	4581.1771166325
ontime7	5183.9999806881
l1events	971636

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	152172	157050	151573	153225	167335	190281
rejected events	33158	34997	34542	35282	37936	36331
rejected %	21%	22%	22%	23%	22%	19%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	67179	67971	66904	68069	71153	37855
	44%	43%	44%	44%	42%	19%
grade 1 events	354	343	420	413	348	114
	0%	0%	0%	0%	0%	0%
grade 2 events	21283	22479	20032	20480	23084	34530
	13%	14%	13%	13%	13%	18%
grade 3 events	7801	7794	7894	7710	8125	15163
	5%	4%	5%	5%	4%	7%
grade 4 events	7839	7983	7793	7847	8206	15109
	5%	5%	5%	5%	4%	7%
grade 5 events	1936	1937	1822	2000	2170	5449
	1%	1%	1%	1%	1%	2%
grade 6 events	18213	18748	17285	16966	21917	55661
	11%	11%	11%	11%	13%	29%
grade 7 events	27567	29795	29423	29740	32332	26400
	18%	18%	19%	19%	19%	13%

## 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	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	125.6728091558953	125.6728091558953	Subarray requested	NONE	NONE
Pointing Dec	27.61563990380612	27.61563990380612	Alternating exposures requested	N	N
Pointing Roll	114.084641043297	114.084641043297	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	221828101.377711	221828101.377711			
Observation start date	2005-01-11T11:18:00	2005-01-11T10:55:01			
Observation end time	221835140.141899	221835140.141899			
Observation end date	2005-01-11T12:32:00	2005-01-11T12:52:20			
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	5.18399998

## 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.