

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 59566 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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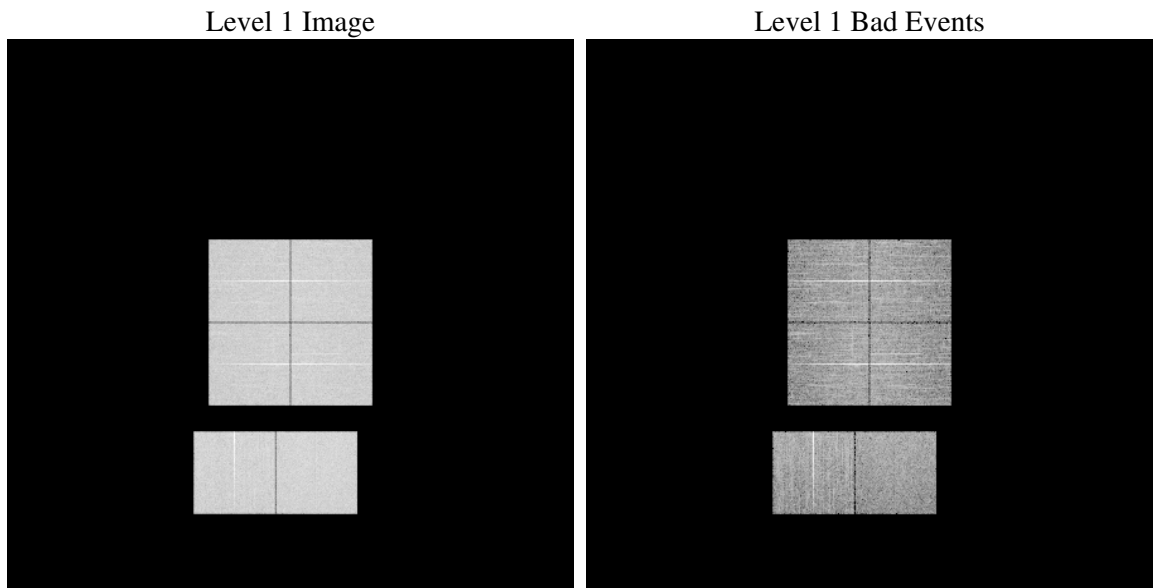
# 1 Front

seq_num	&#160
obs_id	59566
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	162.38086676416
dec_nom	23.747321167327
roll_nom	261.0712658542
revision	3
ontime	7983.9999702573
livetime	7882.9017552463
ontime0	7663.1450903416
ontime1	7948.3493870497
ontime2	7475.1688155532
ontime3	7698.7956039608
ontime6	7938.6266657412
ontime7	7983.9999702573
l2events	1048229

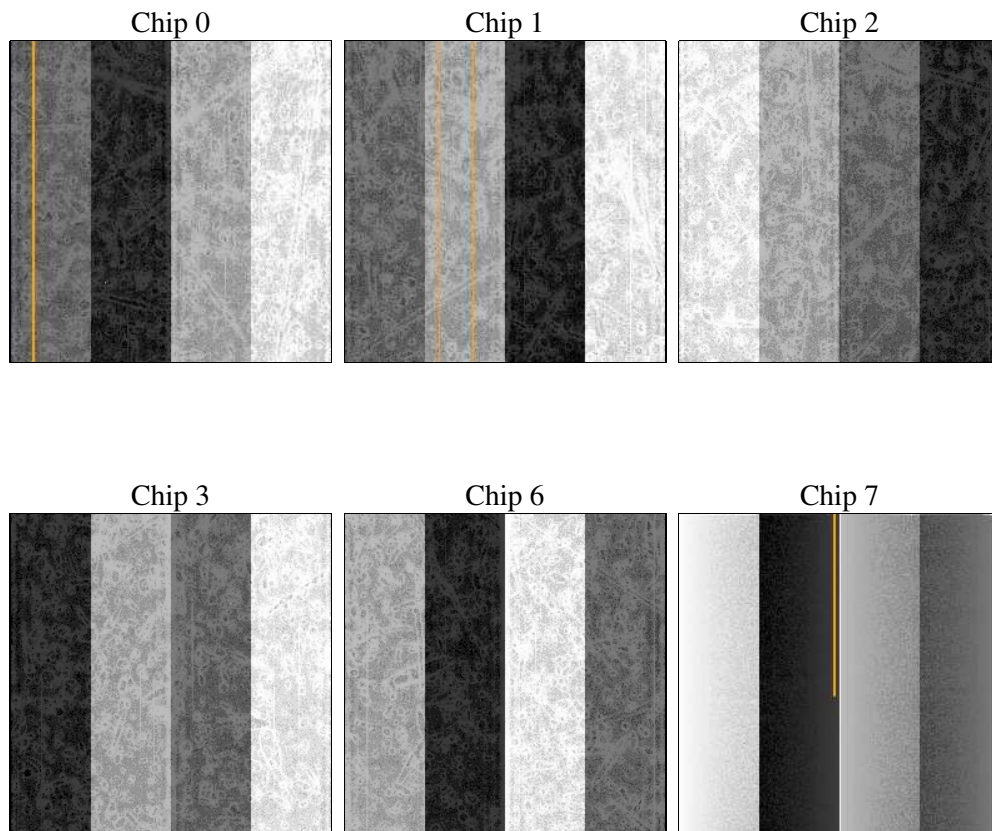
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-02-04T12:51:10
revision	3

sched_exp_time	900
ontime	7983.9999702573
ontime0	7663.1450903416
ontime1	7948.3493870497
ontime2	7475.1688155532
ontime3	7698.7956039608
ontime6	7938.6266657412
ontime7	7983.9999702573
l1events	1448760

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	232506	238902	230610	237722	251637	257383
rejected events	57844	56657	58283	59352	61956	52275
rejected %	24%	23%	25%	24%	24%	20%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	97588	100218	98483	101612	103086	48171
	41%	41%	42%	42%	40%	18%
grade 1 events	584	445	607	595	488	181
	0%	0%	0%	0%	0%	0%
grade 2 events	30802	33631	28728	30253	33892	45308
	13%	14%	12%	12%	13%	17%
grade 3 events	11209	11658	11407	11847	11926	20578
	4%	4%	4%	4%	4%	7%
grade 4 events	11505	11624	11464	11726	11554	20031
	4%	4%	4%	4%	4%	7%
grade 5 events	3259	3373	2916	3440	3492	8503
	1%	1%	1%	1%	1%	3%
grade 6 events	25712	27346	24405	24966	31598	73420
	11%	11%	10%	10%	12%	28%
grade 7 events	51847	50607	52600	53283	55601	41191
	22%	21%	22%	22%	22%	16%

## 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	162.3808667641584	162.3808667641584	Subarray requested	NONE	NONE
Pointing Dec	23.74732116732697	23.74732116732697	Alternating exposures requested	N	N
Pointing Roll	261.0712658542046	261.0712658542046	Primary exposure time	3.2	3.2
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
SIM defocus (mm)	0.8505140384245534	0.8505140384245534			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
SIM translation stage offset (mm)	-0.01005726120527584	-0.01005726120527584			
Observation start time	237416494.786001	237416494.786001			
Observation start date	2005-07-10T21:09:00	2005-07-10T21:01:34			
Observation end time	237424895.771506	237424895.771506			
Observation end date	2005-07-10T21:24:00	2005-07-10T23:21:35			
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	7.98399997

## 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.