

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 60163 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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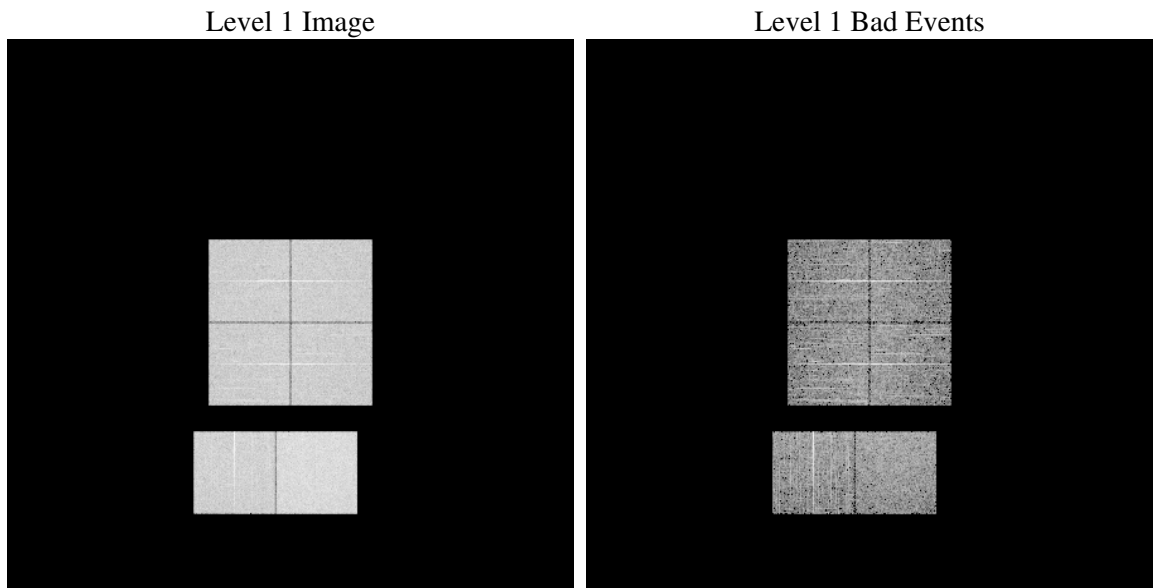
# 1 Front

seq_num	&#160
obs_id	60163
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	305.01670907664
dec_nom	-60.972580519788
roll_nom	40.782640730385
revision	3
ontime	4246.3999841809
livetime	4192.6295107061
ontime0	3325.9623919427
ontime1	3337.035322845
ontime2	3184.7500318885
ontime3	3184.58597067
ontime6	3410.2275508344
ontime7	4246.3999841809
l2events	607059

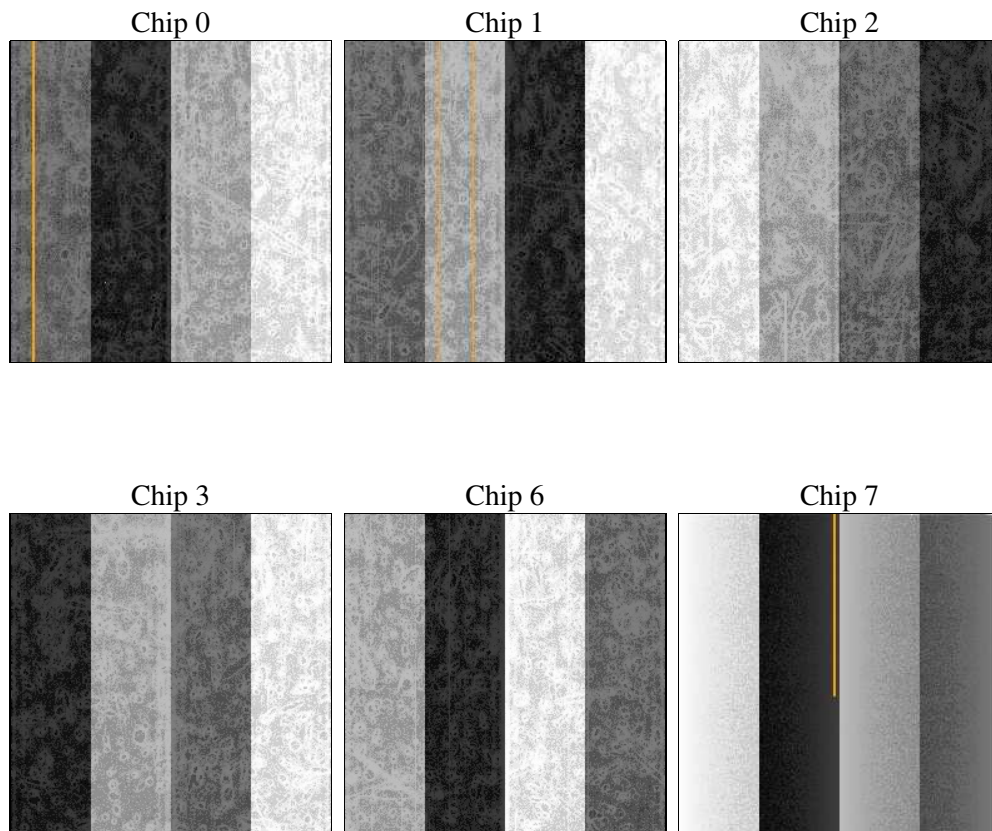
## 2 OBI

### 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	2009-02-04T14:38:46
revision	3

sched_exp_time	2880
ontime	4246.3999841809
ontime0	3325.9623919427
ontime1	3337.035322845
ontime2	3184.7500318885
ontime3	3184.58597067
ontime6	3410.2275508344
ontime7	4246.3999841809
l1events	792379

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	122630	123349	121655	121531	135515	167699
rejected events	23719	23918	25992	25545	28275	28091
rejected %	19%	19%	21%	21%	20%	16%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	54720	54904	53850	54509	58376	34704
	44%	44%	44%	44%	43%	20%
grade 1 events	300	264	348	343	292	138
	0%	0%	0%	0%	0%	0%
grade 2 events	17532	18101	16485	16635	18946	31202
	14%	14%	13%	13%	13%	18%
grade 3 events	6564	6458	6424	6436	6831	14240
	5%	5%	5%	5%	5%	8%
grade 4 events	6562	6434	6429	6329	6871	14149
	5%	5%	5%	5%	5%	8%
grade 5 events	1465	1529	1456	1606	1747	4833
	1%	1%	1%	1%	1%	2%
grade 6 events	14779	14922	13617	13358	17463	47163
	12%	12%	11%	10%	12%	28%
grade 7 events	20708	20737	23046	22315	24989	21270
	16%	16%	18%	18%	18%	12%

## 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	305.0167090766426	305.0167090766426	Subarray requested	NONE	NONE
Pointing Dec	-60.9725805197877	-60.9725805197877	Alternating exposures requested	N	N
Pointing Roll	40.78264073038451	40.78264073038451	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	204694534.761699	204694534.761699			
Observation start date	2004-06-27T04:04:00	2004-06-27T03:35:34			
Observation end time	204700552.706486	204700552.706486			
Observation end date	2004-06-27T04:52:00	2004-06-27T05:15:52			
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)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.24639998

## 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.