

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 60816 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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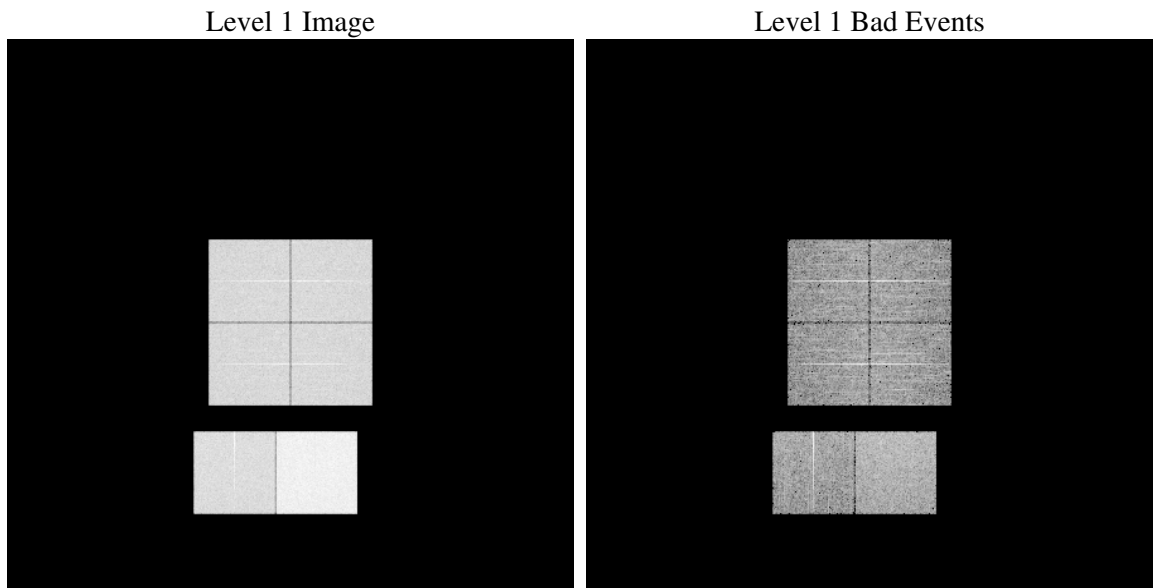
# 1 Front

seq_num	&#160
obs_id	60816
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	161.25186342775
dec_nom	64.979868520783
roll_nom	191.80559768149
revision	3
ontime	7564.7999718189
livetime	7469.0099196001
ontime0	4159.4906094968
ontime1	4172.4953118265
ontime2	4058.0686726272
ontime3	4019.1765612662
ontime6	4448.0620162487
ontime7	7564.7999718189
l2events	1149391

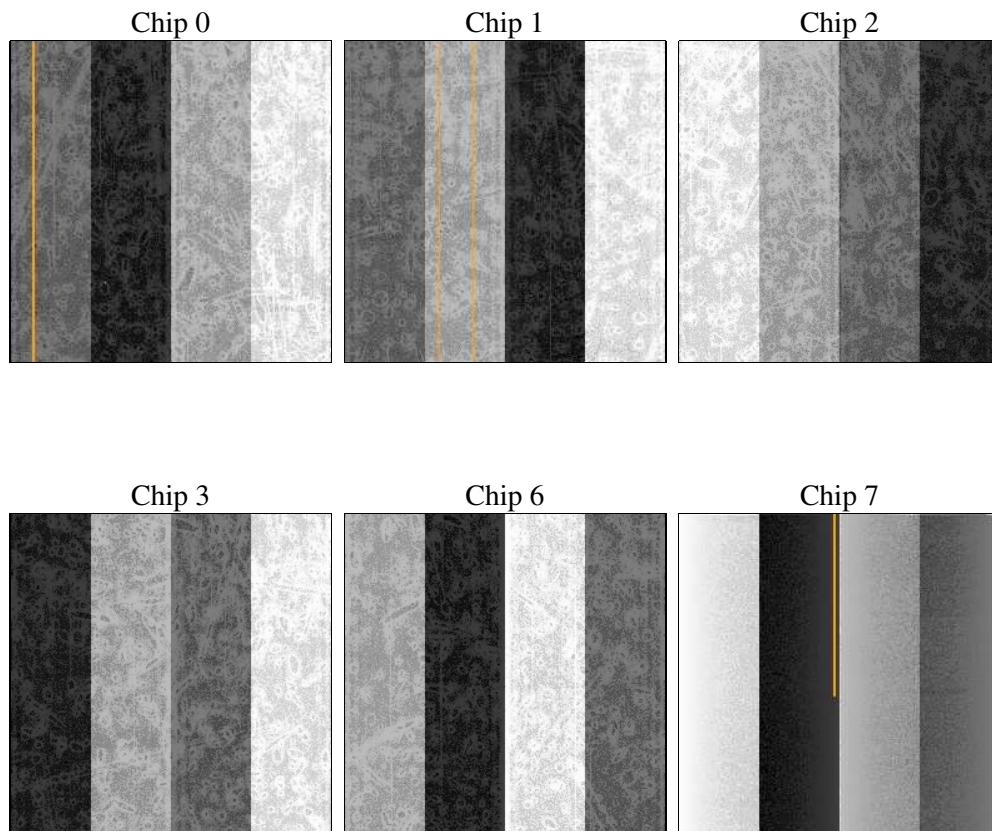
## 2 OBI

### 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	2009-02-05T02:39:55
revision	3

sched_exp_time	8100
ontime	7564.7999718189
ontime0	4159.4906094968
ontime1	4172.4953118265
ontime2	4058.0686726272
ontime3	4019.1765612662
ontime6	4448.0620162487
ontime7	7564.7999718189
l1events	1425503

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	204629	205554	202405	203453	229424	380038
rejected events	33378	33435	32916	35568	36905	51933
rejected %	16%	16%	16%	17%	16%	13%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	97039	97466	98047	97358	108385	84405
	47%	47%	48%	47%	47%	22%
grade 1 events	550	480	578	611	485	229
	0%	0%	0%	0%	0%	0%
grade 2 events	31116	31535	29217	29577	34472	74657
	15%	15%	14%	14%	15%	19%
grade 3 events	11296	11159	11398	11262	12240	34581
	5%	5%	5%	5%	5%	9%
grade 4 events	11392	11302	11364	11037	12427	33540
	5%	5%	5%	5%	5%	8%
grade 5 events	1908	1931	1971	1983	2297	8052
	0%	0%	0%	0%	1%	2%
grade 6 events	25348	25752	24076	23905	31351	110896
	12%	12%	11%	11%	13%	29%
grade 7 events	25980	25929	25754	27720	27767	33678
	12%	12%	12%	13%	12%	8%

## 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	161.2518634277532	161.2518634277532	Subarray requested	NONE	NONE
Pointing Dec	64.97986852078301	64.97986852078301	Alternating exposures requested	N	N
Pointing Roll	191.8055976814928	191.8055976814928	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	163804995.195337	163804995.195337			
Observation start date	2003-03-11T21:46:00	2003-03-11T21:23:15			
Observation end time	163814333.39633	163814333.39633			
Observation end date	2003-03-12T00:01:00	2003-03-11T23:58:53			
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	7.56479997

## 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.