

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 59506 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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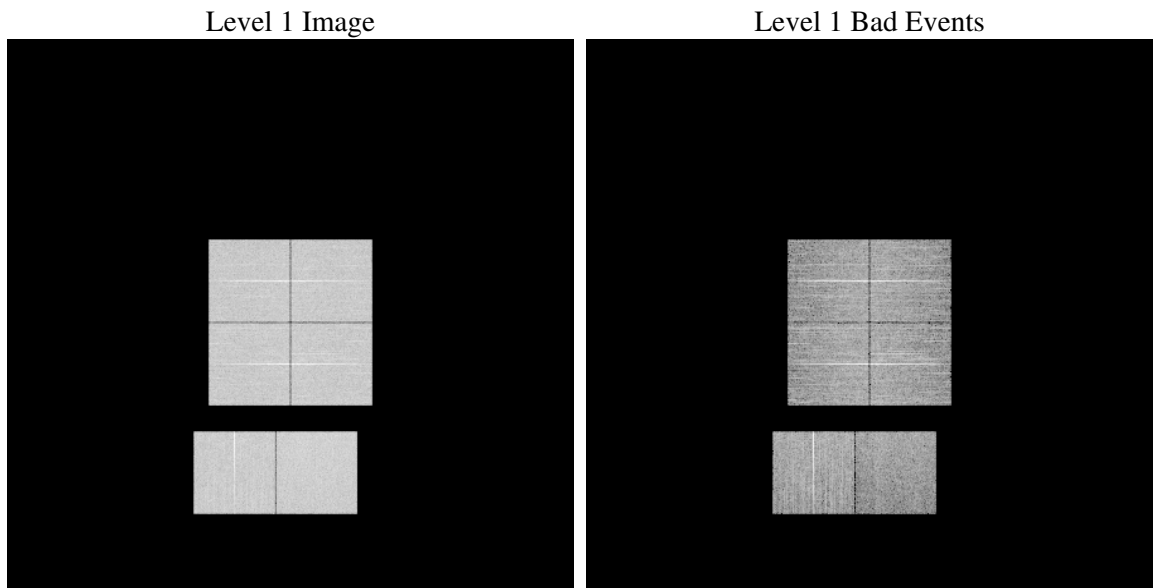
# 1 Front

seq_num	&#160
obs_id	59506
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	195.00658586241
dec_nom	-2.0277188435837
roll_nom	250.40814049615
revision	3
ontime	6748.7999748588
livetime	6663.3426059376
ontime0	6748.7999748588
ontime1	6748.7999748588
ontime2	6748.7999748588
ontime3	6748.7999748588
ontime6	6748.7999748588
ontime7	6748.7999748588
l2events	826247

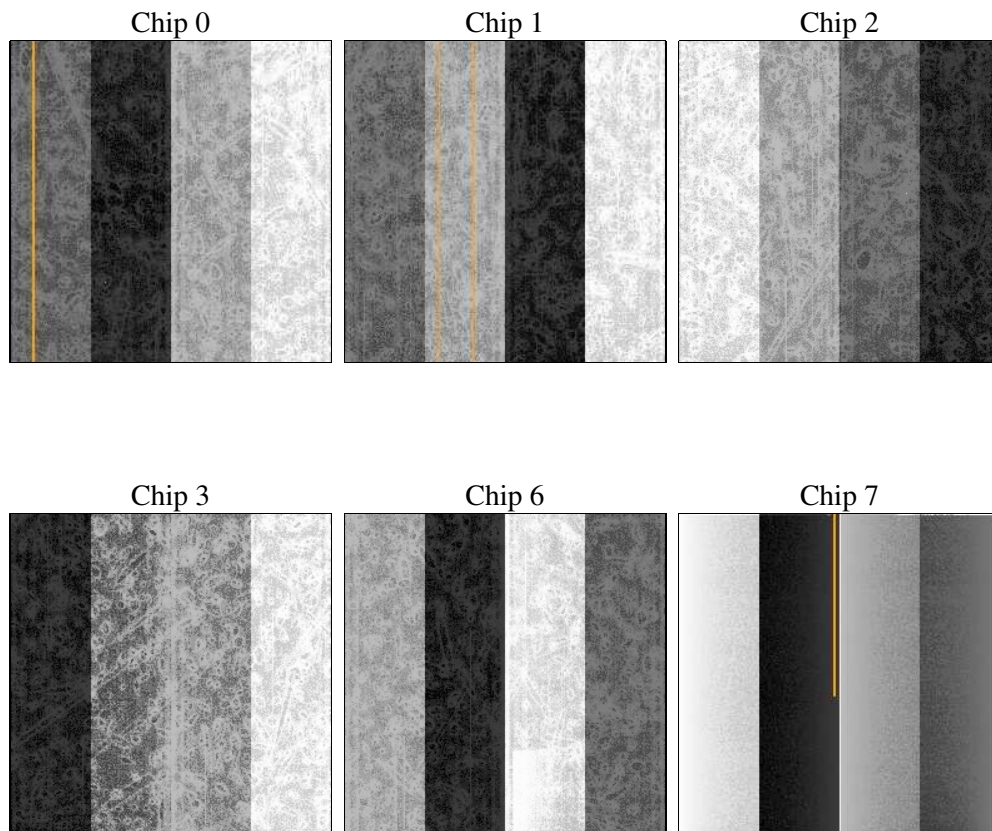
## 2 OBI

### 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	2009-02-04T12:32:38
revision	3

sched_exp_time	6360
ontime	6748.7999748588
ontime0	6748.7999748588
ontime1	6748.7999748588
ontime2	6748.7999748588
ontime3	6748.7999748588
ontime6	6748.7999748588
ontime7	6748.7999748588
l1events	1226708

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	196447	197649	202346	202853	209288	218125
rejected events	57983	58574	64105	63175	66386	47696
rejected %	29%	29%	31%	31%	31%	21%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	45321	41111	43997	45044	32482	37315
	23%	20%	21%	22%	15%	17%
grade 1 events	170	150	173	176	138	116
	0%	0%	0%	0%	0%	0%
grade 2 events	60172	65062	62279	62727	76765	34209
	30%	32%	30%	30%	36%	15%
grade 3 events	4989	4457	4674	4816	3416	20667
	2%	2%	2%	2%	1%	9%
grade 4 events	4831	4517	4633	4760	3508	17725
	2%	2%	2%	2%	1%	8%
grade 5 events	2517	2465	2538	2796	2408	6820
	1%	1%	1%	1%	1%	3%
grade 6 events	26262	26987	25799	25429	29926	64301
	13%	13%	12%	12%	14%	29%
grade 7 events	52185	52900	58253	57105	60645	36972
	26%	26%	28%	28%	28%	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	195.0065858624107	195.0065858624107	Subarray requested	NONE	NONE
Pointing Dec	-2.02771884358372	-2.02771884358372	Alternating exposures requested	N	N
Pointing Roll	250.4081404961493	250.4081404961493	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	240336232.019694	240336232.019694			
Observation start date	2005-08-13T16:11:00	2005-08-13T16:03:52			
Observation end time	240345750.893511	240345750.893511			
Observation end date	2005-08-13T17:57:00	2005-08-13T18:42:30			
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	6.74879997

## 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 the observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature also exceeds the upper limit of the verified ACIS calibration for the back-illuminated chips (-116.7 C). The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C.