

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 61722 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 10 2009

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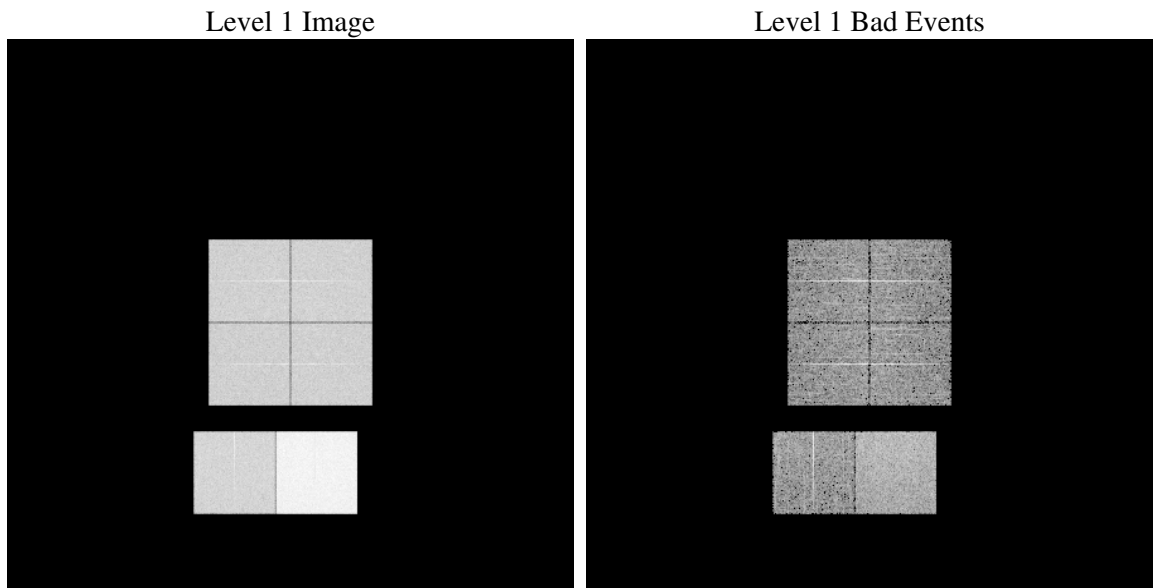
# 1 Front

seq_num	&#160
obs_id	61722
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	112.92965411335
dec_nom	-57.269472004486
roll_nom	315.9217364079
revision	2
ontime	5933.6080207825
livetime	5858.4731032335
ontime0	2451.6392224133
ontime1	2462.5056423694
ontime2	2316.6589823216
ontime3	2349.0694419742
ontime6	2594.3678229749
ontime7	5933.6080207825
l2events	1206978

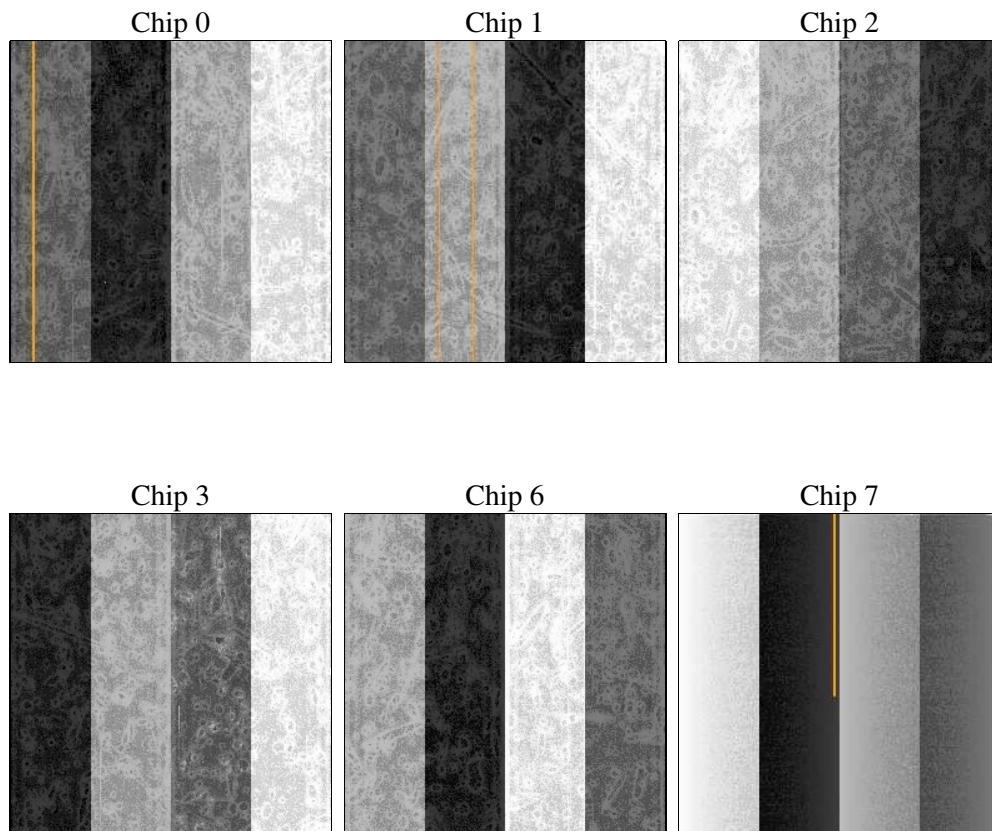
## 2 OBI

### 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	2009-02-10T17:35:04
revision	2

sched_exp_time	3960
ontime	5933.6080207825
ontime0	2451.6392224133
ontime1	2462.5056423694
ontime2	2316.6589823216
ontime3	2349.0694419742
ontime6	2594.3678229749
ontime7	5933.6080207825
l1events	1421570

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	190284	190887	182293	185575	210960	461571
rejected events	23878	23062	23486	23853	25979	43450
rejected %	12%	12%	12%	12%	12%	9%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	94333	94621	90331	92724	103767	110092
	49%	49%	49%	49%	49%	23%
grade 1 events	492	469	472	485	502	288
	0%	0%	0%	0%	0%	0%
grade 2 events	30231	30393	28695	29082	32814	95213
	15%	15%	15%	15%	15%	20%
grade 3 events	10863	11002	10195	10591	11752	44026
	5%	5%	5%	5%	5%	9%
grade 4 events	10668	10811	10158	10404	11809	43598
	5%	5%	5%	5%	5%	9%
grade 5 events	1399	1450	1364	1477	1692	6985
	0%	0%	0%	0%	0%	1%
grade 6 events	25018	24917	23207	23163	29749	136178
	13%	13%	12%	12%	14%	29%
grade 7 events	17280	17224	17871	17649	18875	25191
	9%	9%	9%	9%	8%	5%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	112.9296541133506	112.9296541133506
Pointing Dec	-57.26947200448626	-57.26947200448626
Pointing Roll	315.9217364078959	315.9217364078959
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	99825751.05500001	99825751.05500001
Observation start date	2001-03-01T09:41:00	2001-03-01T09:22:31
Observation end time	99835089.82764681	99835089.82764681
Observation end date	2001-03-01T10:47:00	2001-03-01T11:58:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Craig Anderson
V&V Date (YYYY-MM-DD)	2009.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9336080207825

## A.2 Comments

Contains data from both obsids 61722 and 61721.

Focal plane temperature is warmer than -118.7 C degrees after the first 2.6 ksec of 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-illuminatd chips are not affected at the focal plane temperatures recorded for this observation.

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.