

# V&V Reference Report

## L2 ASCDS Version : 8.3.2

Observation 62771 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Aug 15 2010

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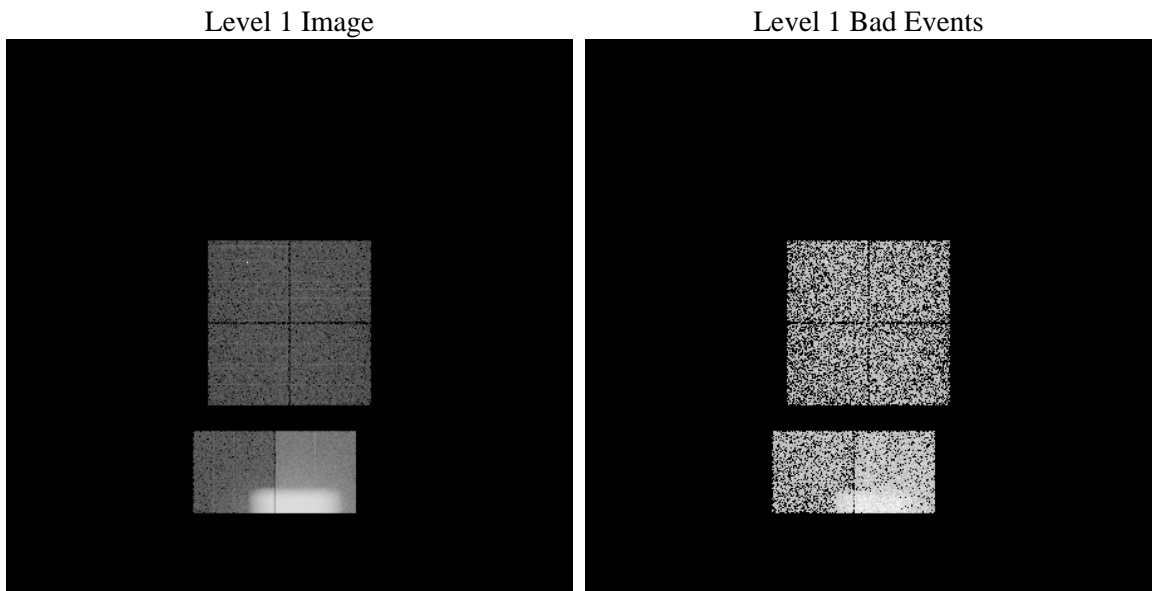
# 1 Front

seq_num	0	Sequence number
obs_id	62771	Observation id
title	ACIS-I internal cal, S2, S3	Proposal title
observer	CHANDRA orbital activation and checkout	Principal investigator
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	228.36848764616	Nominal RA
dec_nom	22.654485670298	Nominal Dec
roll_nom	250.02384220101	Nominal Roll
revision	4	Processing version of data
ontime	6724.8664738834	Sum of GTIs [s]
livetime	6642.2609019393	Livetime [s]
ontime0	6664.7312060669	Sum of GTIs [s]
ontime1	6674.750873886	Sum of GTIs [s]
ontime2	6668.0687938854	Sum of GTIs [s]
ontime3	6671.4098338857	Sum of GTIs [s]
ontime6	6671.4098338857	Sum of GTIs [s]
ontime7	6724.8664738834	Sum of GTIs [s]
l2events	543092	Number of level 2 events

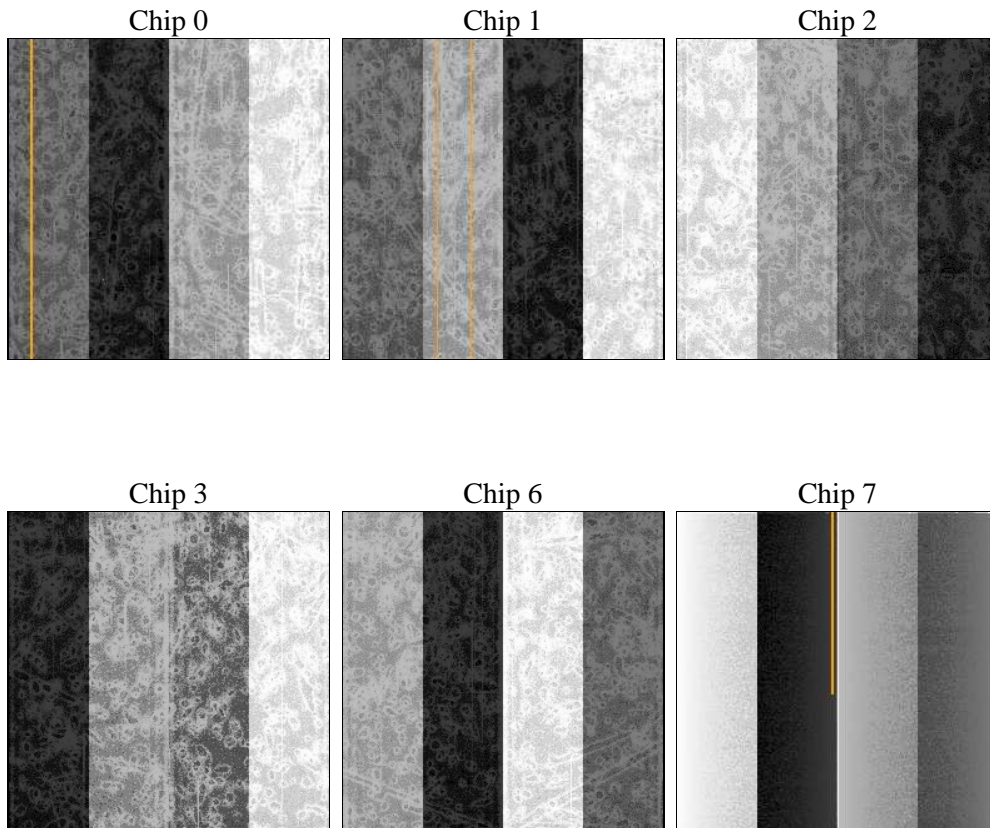
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.4 Events

obi_num	0	Obi number
ascdsver	8.3.2	ASCDS version number
caldsver	4.3.0	&#160
date	2010-08-15T12:32:28	Date and time of file creation
revision	4	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	6724.8664738834	Sum of GTIs [s]
ontime0	6664.7312060669	Sum of GTIs [s]
ontime1	6674.750873886	Sum of GTIs [s]
ontime2	6668.0687938854	Sum of GTIs [s]
ontime3	6671.4098338857	Sum of GTIs [s]
ontime6	6671.4098338857	Sum of GTIs [s]
ontime7	6724.8664738834	Sum of GTIs [s]
l1events	587434	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18435	16797	16308	15940	95018	424936
rejected events	4600	4667	4389	4499	6154	11455
rejected %	24%	27%	26%	28%	6%	2%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2929	2974	3052	2914	36146	82771
	15%	17%	18%	18%	38%	19%
grade 1 events	20	36	16	39	276	427
	0%	0%	0%	0%	0%	0%
grade 2 events	2562	2509	2544	2308	16651	96016
	13%	14%	15%	14%	17%	22%
grade 3 events	1196	1209	1126	1118	6548	33086
	6%	7%	6%	7%	6%	7%
grade 4 events	2917	1154	1053	1035	6394	32477
	15%	6%	6%	6%	6%	7%
grade 5 events	4562	4597	4373	4460	5878	11013
	24%	27%	26%	27%	6%	2%
grade 6 events	4231	4284	4144	4066	23125	169131
	22%	25%	25%	25%	24%	39%
grade 7 events	18	34	0	0	0	15
	0%	0%	0%	0%	0%	0%

## 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	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	228.3684876461635	Alternating exposures requested	N	N
Pointing Dec	0	22.65448567029791	Primary exposure time	0.000000	3.3
Pointing Roll	0.0	250.0238422010142			
SIM focus pos (mm)	-0.782348	0.255451383487682			
SIM defocus (mm)	0	0.9397188447875782			
SIM translation stage pos (mm)	-233.592463	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	49779209.636	49779207.59359			
Observation start date	1999-07-31T03:33:30	1999-07-31T03:33:27			
Observation end time	49787768.5	49787766.343879			
Observation end date	1999-07-31T05:56:08	1999-07-31T05:56:06			
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)	2010.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.7248664738834

## A.2 Comments

This ACIS internal calibration observation was acquired before the ACIS door was open. A reflection of the door is visible in the image.

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Focal plane temperature is warmer than -118.7 C degrees during 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.