

# V&V Reference Report

## L2 ASCDS Version : 8.3.2

Observation 62730 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Aug 15 2010

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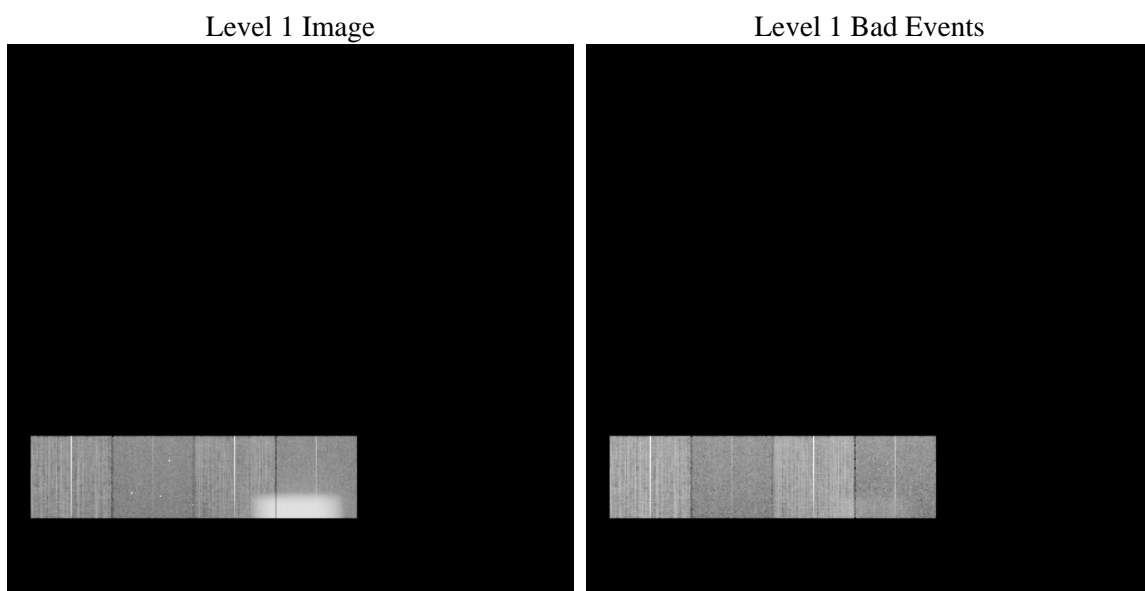
# 1 Front

seq_num	0	Sequence number
obs_id	62730	Observation id
title	ACIS-S internal cal; S0,S1,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	221.0302761834	Nominal RA
dec_nom	-8.852008525048	Nominal Dec
roll_nom	252.89343665041	Nominal Roll
revision	4	Processing version of data
ontime	8381.6914879382	Sum of GTIs [s]
livetime	8278.7341397277	Livetime [s]
ontime4	8381.609407939	Sum of GTIs [s]
ontime5	8381.6504479349	Sum of GTIs [s]
ontime6	8381.4862879366	Sum of GTIs [s]
ontime7	8381.6914879382	Sum of GTIs [s]
ontime8	8381.5683679357	Sum of GTIs [s]
ontime9	8381.5273279399	Sum of GTIs [s]
l2events	644076	Number of level 2 events

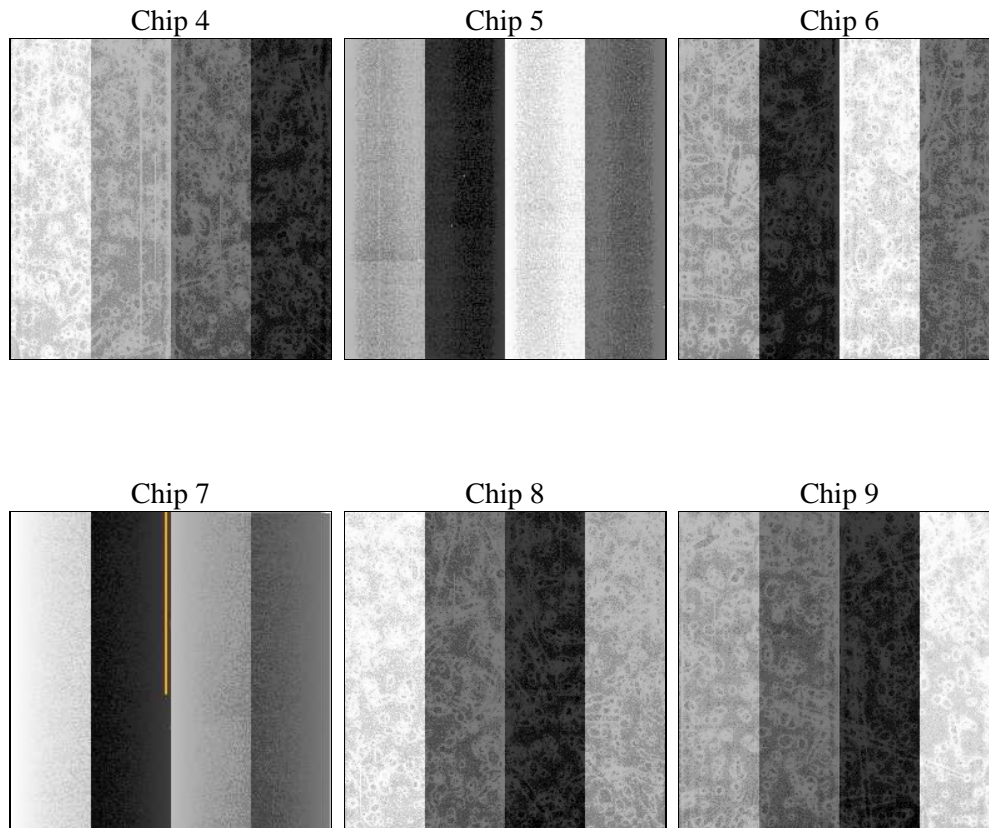
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.3.2	ASCDS version number	sched_exp_time	0.0
caldsver	4.3.0	&#160		Scheduled observation exposure time
date	2010-08-15T14:20:16	Date and time of file creation	ontime	8381.6914879382
revision	4	Processing version of data	ontime4	8381.609407939
			ontime5	8381.6504479349
			ontime6	8381.4862879366
			ontime7	8381.6914879382
			ontime8	8381.5683679357
			ontime9	8381.5273279399
			l1events	1257862
				Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	219743	133157	316450	588512	0	0
rejected events	210761	83356	213841	95149	0	0
rejected %	95%	62%	67%	16%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3967	5950	44645	105809	0	0
	1%	4%	14%	17%	0%	0%
grade 1 events	41	195	394	512	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	1985	14507	18980	116406	0	0
	0%	10%	5%	19%	0%	0%
grade 3 events	818	1167	7460	41956	0	0
	0%	0%	2%	7%	0%	0%
grade 4 events	800	1085	7459	41214	0	0
	0%	0%	2%	7%	0%	0%
grade 5 events	2041	4939	3231	9557	0	0
	0%	3%	1%	1%	0%	0%
grade 6 events	1412	27092	24065	187978	0	0
	0%	20%	7%	31%	0%	0%
grade 7 events	208679	78222	210216	85080	0	0
	94%	58%	66%	14%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	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	221.0302761833967	Alternating exposures requested	N	N
Pointing Dec	0	-8.852008525048031	Primary exposure time	0.000000	3.3
Pointing Roll	0.0	252.8934366504066			
SIM focus pos (mm)	-0.684267	0.255451383487682			
SIM defocus (mm)	0	0.9397188447875782			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	50146397.323	50146395.406225			
Observation start date	1999-08-04T09:33:17	1999-08-04T09:33:15			
Observation end time	50156862.694	50156860.656592			
Observation end date	1999-08-04T12:27:43	1999-08-04T12:27:40			
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	8.3816914879382

## 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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Chips 8 and 9 were not telemetered.

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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.