

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62530 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Sep 23 2010

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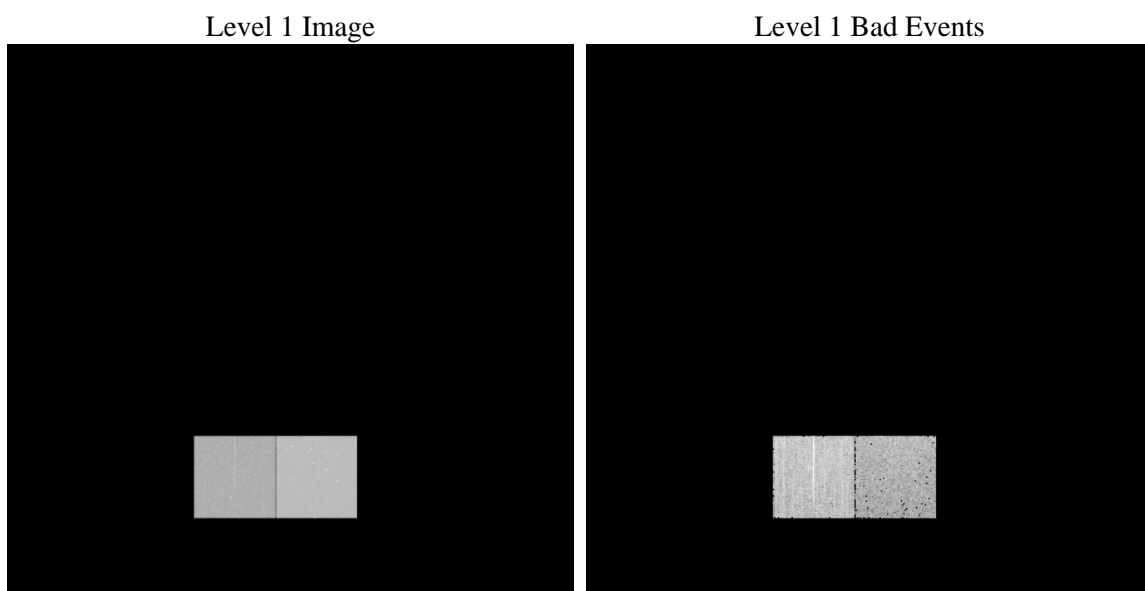
# 1 Front

seq_num	&#160	Sequence number
obs_id	62530	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
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	119.99389326592	Nominal RA
dec_nom	-66.595098073985	Nominal Dec
roll_nom	122.89632144774	Nominal Roll
revision	3	Processing version of data
ontime	3859.2000035942	Sum of GTIs [s]
livetime	3810.3324894174	Livetime [s]
ontime4	2072.6412014067	Sum of GTIs [s]
ontime5	3074.0594679043	Sum of GTIs [s]
ontime6	2338.5248237476	Sum of GTIs [s]
ontime7	3859.2000035942	Sum of GTIs [s]
ontime8	2326.2266159356	Sum of GTIs [s]
ontime9	2338.4840131849	Sum of GTIs [s]
l2events	624569	Number of level 2 events

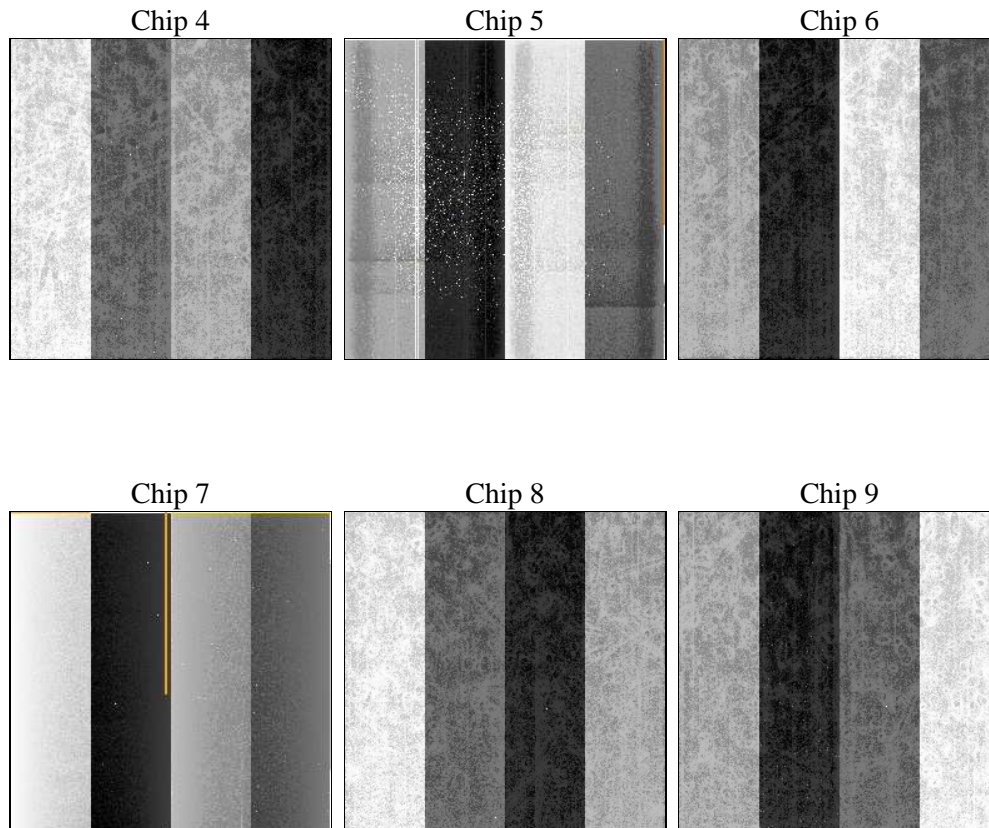
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.3.2.1	ASCDS version number
caldsver	4.3.1	&#160
date	2010-09-23T16:49:51	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	3859.2000035942	Sum of GTIs [s]
ontime4	2072.6412014067	Sum of GTIs [s]
ontime5	3074.0594679043	Sum of GTIs [s]
ontime6	2338.5248237476	Sum of GTIs [s]
ontime7	3859.2000035942	Sum of GTIs [s]
ontime8	2326.2266159356	Sum of GTIs [s]
ontime9	2338.4840131849	Sum of GTIs [s]
l1events	717982	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	278649	439333	0	0
rejected events	0	0	51480	25855	0	0
rejected %	0%	0%	18%	5%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	88406	99318	0	0
	0%	0%	31%	22%	0%	0%
grade 1 events	0	0	620	328	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	79523	92181	0	0
	0%	0%	28%	20%	0%	0%
grade 3 events	0	0	9289	41619	0	0
	0%	0%	3%	9%	0%	0%
grade 4 events	0	0	9295	40779	0	0
	0%	0%	3%	9%	0%	0%
grade 5 events	0	0	2518	5470	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	40656	140295	0	0
	0%	0%	14%	31%	0%	0%
grade 7 events	0	0	48342	19343	0	0
	0%	0%	17%	4%	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	119.9938932659216	Alternating exposures requested	N	N
Pointing Dec	0	-66.59509807398496	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	122.8963214477371			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	54082957.449	54082956.680529			
Observation start date	1999-09-18T23:02:37	1999-09-18T23:02:36			
Observation end time	54090159.099	54090158.330787			
Observation end date	1999-09-19T01:02:39	1999-09-19T01:02:38			
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)	2010.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.8592000035942

## A.2 Comments

Only chips 6 and 7 were telemetered.

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The ACIS focal plane temperature is warmer than -118.7 C degrees during the interval 54084491.08 - 54088350.28 (MET s) of this observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 C during the interval 54084491.08 - 54088350.28 (MET s) of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C.