

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 62428 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Jan 13 2010

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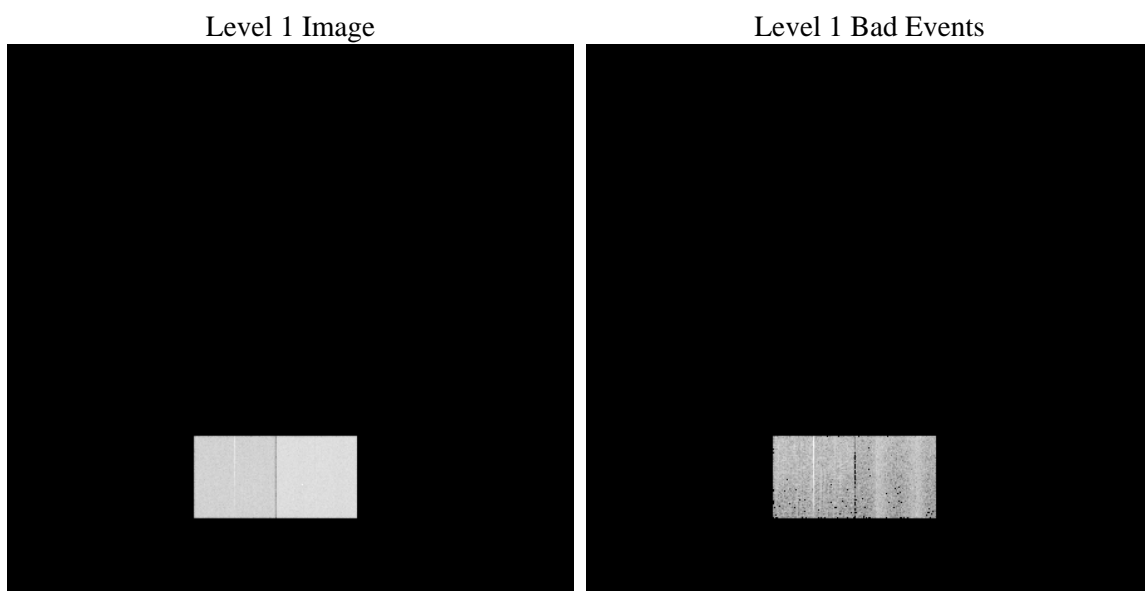
# 1 Front

seq_num	&#160	Sequence number
obs_id	62428	Observation id
title	ACIS-456789 diagnostics; S2,S3 window	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	79.176423090639	Nominal RA
dec_nom	46.00345787128	Nominal Dec
roll_nom	95.867216954994	Nominal Roll
revision	3	Processing version of data
ontime	3366.4000031352	Sum of GTIs [s]
livetime	3323.7726192928	Livetime [s]
ontime4	1982.4652966484	Sum of GTIs [s]
ontime5	3366.3926642612	Sum of GTIs [s]
ontime6	2275.1899882033	Sum of GTIs [s]
ontime7	3366.4000031352	Sum of GTIs [s]
ontime8	2244.9429194182	Sum of GTIs [s]
ontime9	2197.4067641646	Sum of GTIs [s]
l2events	549033	Number of level 2 events

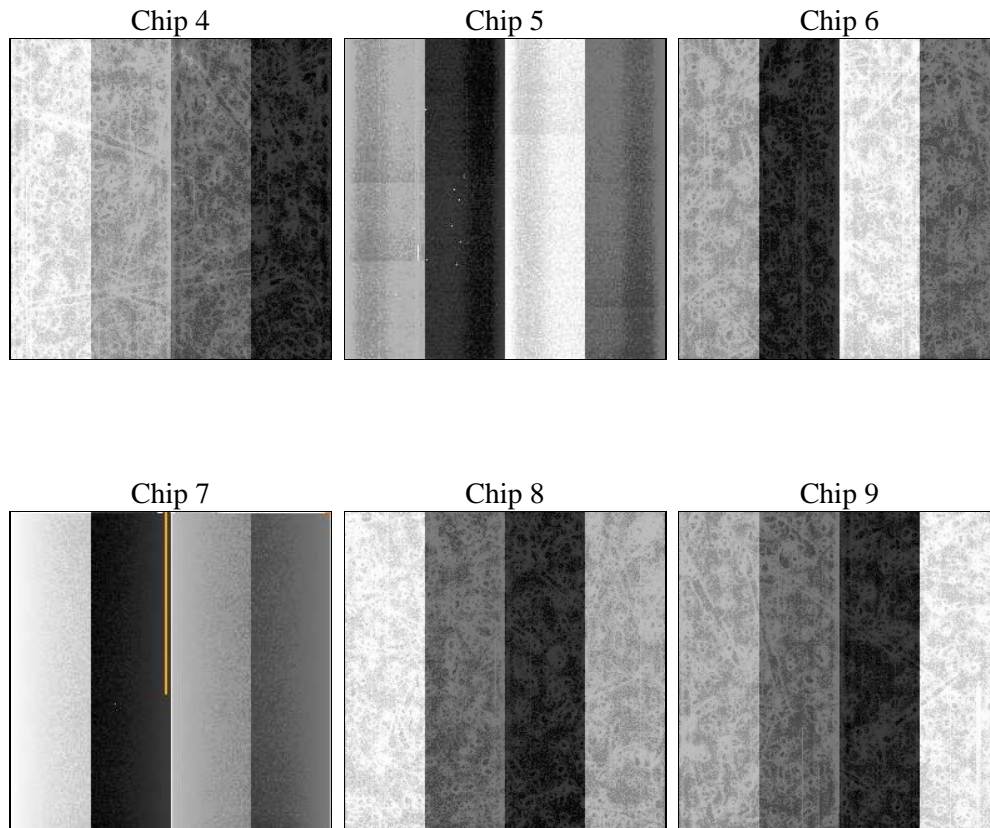
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.2.1	ASCDS version number
caldbver	4.1.5	&#160
date	2010-01-13T15:25:57	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	3366.4000031352	Sum of GTIs [s]
ontime4	1982.4652966484	Sum of GTIs [s]
ontime5	3366.3926642612	Sum of GTIs [s]
ontime6	2275.1899882033	Sum of GTIs [s]
ontime7	3366.4000031352	Sum of GTIs [s]
ontime8	2244.9429194182	Sum of GTIs [s]
ontime9	2197.4067641646	Sum of GTIs [s]
l1events	626764	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	253521	373243	0	0
rejected events	0	0	38755	32933	0	0
rejected %	0%	0%	15%	8%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	66736	65240	0	0
	0%	0%	26%	17%	0%	0%
grade 1 events	0	0	273	177	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	90705	66683	0	0
	0%	0%	35%	17%	0%	0%
grade 3 events	0	0	7231	45632	0	0
	0%	0%	2%	12%	0%	0%
grade 4 events	0	0	7093	35407	0	0
	0%	0%	2%	9%	0%	0%
grade 5 events	0	0	1966	4949	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	43001	127348	0	0
	0%	0%	16%	34%	0%	0%
grade 7 events	0	0	36516	27807	0	0
	0%	0%	14%	7%	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	79.17642309063882	Alternating exposures requested	N	N
Pointing Dec	0	46.00345787127963	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	95.86721695499365			
SIM focus pos (mm)	-0.684267	-1.27598394818995			
SIM defocus (mm)	0	0.2573526912143473			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	53513826.178	53513825.410103			
Observation start date	1999-09-12T08:57:06	1999-09-12T08:57:05			
Observation end time	53519053.679	53519052.910291			
Observation end date	1999-09-12T10:24:14	1999-09-12T10:24:12			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.3664000031352

## A.2 Comments

A spatial exclusion window was specified for this observation. Although 6 CCD chips were active, only events from chips 6 and 7 were telemetered.

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The focal plane temperature is warmer than -110C during this observation.

The ACIS CTI correction has not been calibrated at this temperature because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front- and back-illuminated chips are affected. However, a T\_GAIN correction has been applied to the BI chip (ACIS-7) data included here.