

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62563 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Mar 31 2010

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

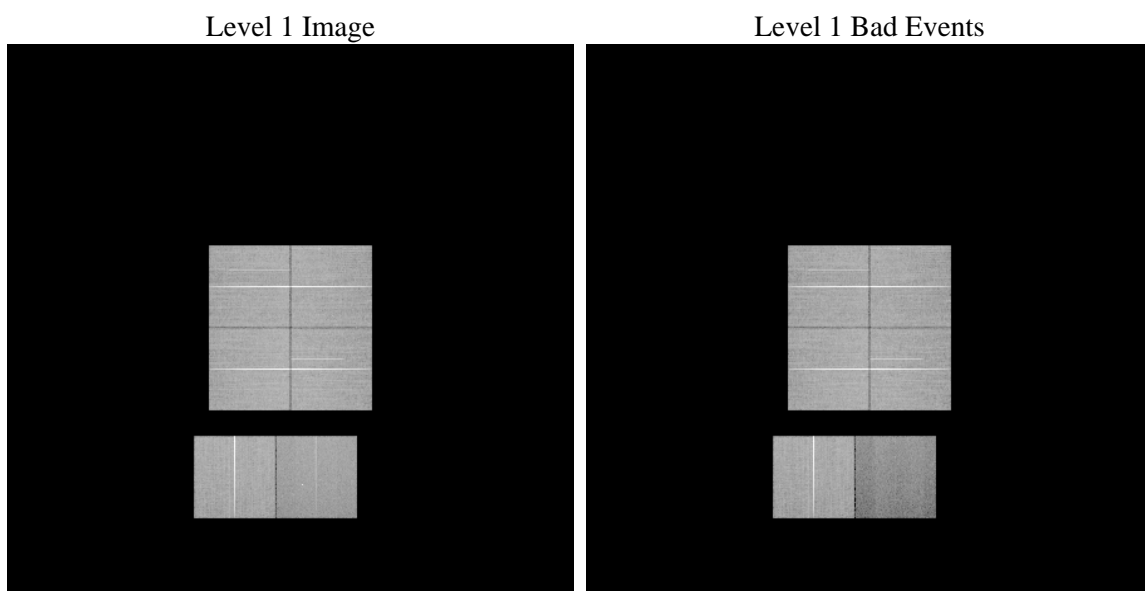
# 1 Front

seq_num	&#160	Sequence number
obs_id	62563	Observation id
title	ACIS-012367 diagnostics; background (direction of SEP); no sources	&#160
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	137.31440272786	Nominal RA
dec_nom	-44.043856587936	Nominal Dec
roll_nom	140.27172927422	Nominal Roll
revision	3	Processing version of data
ontime	31915.961987369	Sum of GTIs [s]
livetime	31523.919066613	Livetime [s]
ontime0	31912.662067153	Sum of GTIs [s]
ontime1	31916.044037439	Sum of GTIs [s]
ontime2	31909.403196931	Sum of GTIs [s]
ontime3	31916.126147367	Sum of GTIs [s]
ontime6	31917.599971175	Sum of GTIs [s]
ontime7	31915.961987369	Sum of GTIs [s]
l2events	176650	Number of level 2 events

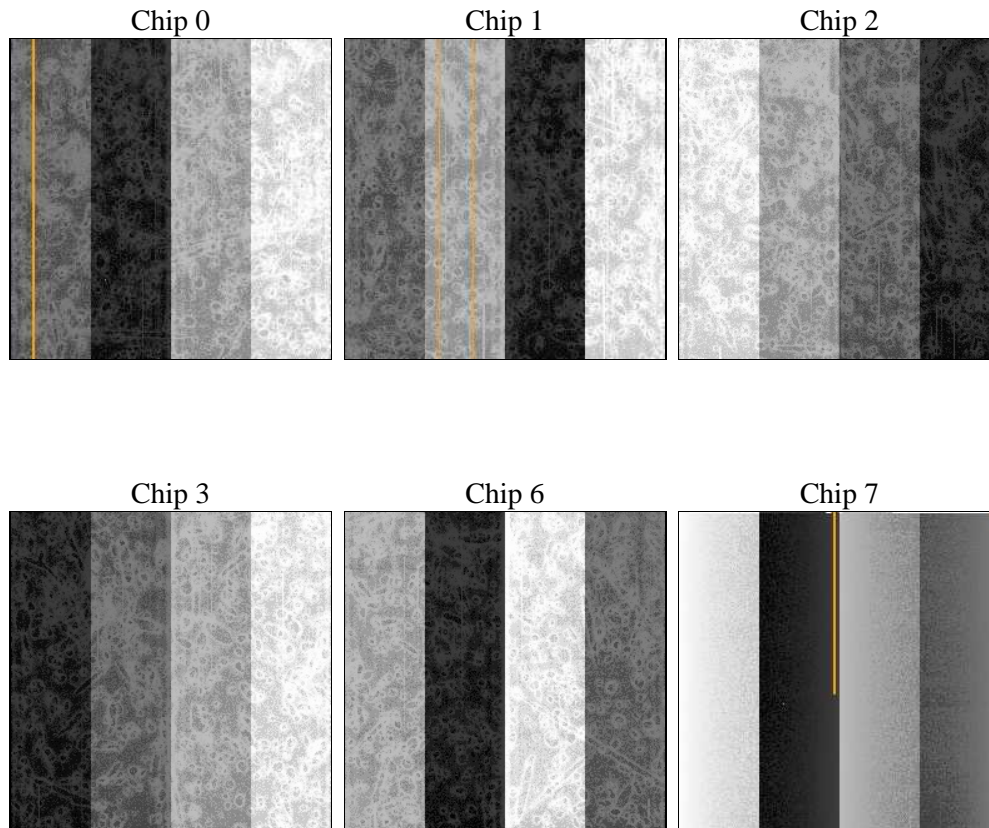
## 2 OBI

### 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	sched_exp_time	0.0
caldbver	4.1.5	&#160		Scheduled observation exposure time
date	2010-03-31T21:36:00	Date and time of file creation	ontime	31915.961987369
revision	3	Processing version of data	ontime0	31912.662067153
			ontime1	31916.044037439
			ontime2	31909.403196931
			ontime3	31916.126147367
			ontime6	31917.599971175
			ontime7	31915.961987369
			l1events	1601516
				Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	280199	270055	301942	286523	279043	183754	grade 0 events	7124	7110	7251	7356	8263	11026
rejected events	260967	249611	283696	268125	258403	84182		2%	2%	2%	2%	2%	6%
rejected %	93%	92%	93%	93%	92%	45%	grade 1 events	100	94	95	96	103	164
								0%	0%	0%	0%	0%	0%
							grade 2 events	4034	3854	3744	3565	4041	18131
								1%	1%	1%	1%	1%	9%
							grade 3 events	2476	2885	2258	2301	2509	10838
								0%	1%	0%	0%	0%	5%
							grade 4 events	2302	2783	2154	2126	2419	8949
								0%	1%	0%	0%	0%	4%
							grade 5 events	4342	4543	3780	4328	4351	13512
								1%	1%	1%	1%	1%	7%
							grade 6 events	3296	3812	2839	3050	3411	50628
								1%	1%	0%	1%	1%	27%
							grade 7 events	256525	244974	279821	263701	253946	70506
								91%	90%	92%	92%	91%	38%

## 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	137.3144027278632	Alternating exposures requested	N	N
Pointing Dec	0	-44.04385658793579	Primary exposure time	0.000000	3.3
Pointing Roll	0.0	140.2717292742151			
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	50910347.985	50910344.333207			
Observation start date	1999-08-13T05:45:48	1999-08-13T05:45:44			
Observation end time	50982902.93	50982897.935766			
Observation end date	1999-08-14T01:55:03	1999-08-14T01:54:57			
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)	2010.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.915961987369

## A.2 Comments

The focal plane temperature is warmer than -110C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

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.