

# V&V Reference Report

## L2 ASCDS Version : 8.3.2

Observation 62734 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Aug 15 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

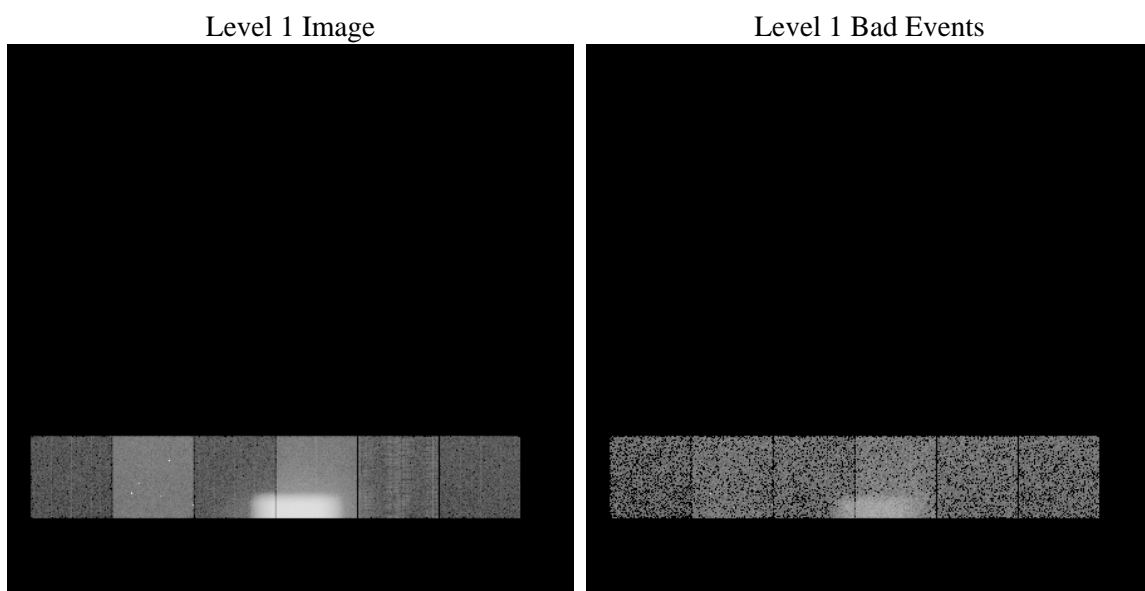
# 1 Front

seq_num	0	Sequence number
obs_id	62734	Observation id
title	ACIS internal cal	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	200.134939115	Nominal RA
dec_nom	-35.584994361084	Nominal Dec
roll_nom	243.23913054552	Nominal Roll
revision	4	Processing version of data
ontime	8220.2180821449	Sum of GTIs [s]
livetime	8119.2442087129	Livetime [s]
ontime4	8223.5590323582	Sum of GTIs [s]
ontime5	8223.5590323582	Sum of GTIs [s]
ontime6	8220.2180821449	Sum of GTIs [s]
ontime7	8220.2180821449	Sum of GTIs [s]
ontime8	8223.5590323582	Sum of GTIs [s]
ontime9	8223.5590323582	Sum of GTIs [s]
l2events	731096	Number of level 2 events

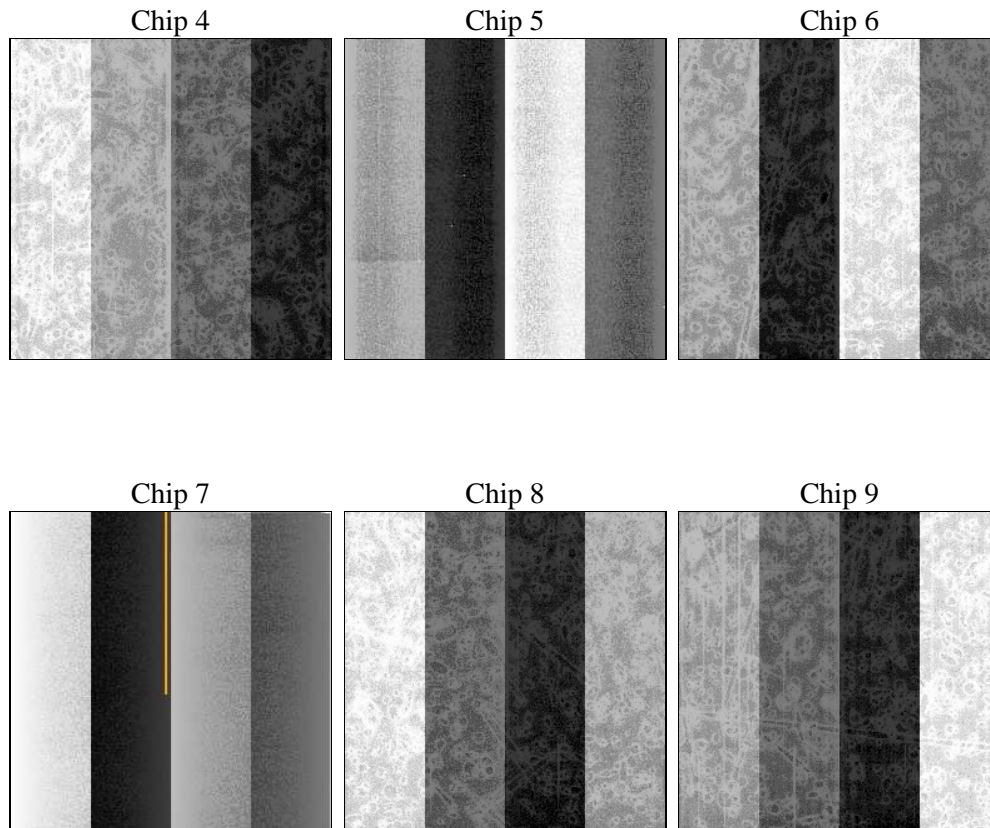
## 2 OBI

### 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
caldbver	4.3.0	&#160		Scheduled observation exposure time
date	2010-08-15T13:19:04	Date and time of file creation	ontime	8220.2180821449
revision	4	Processing version of data	ontime4	8223.5590323582
			ontime5	8223.5590323582
			ontime6	8220.2180821449
			ontime7	8220.2180821449
			ontime8	8223.5590323582
			ontime9	8223.5590323582
			l1events	806316
				Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	20947	82587	117235	526352	36332	22863	grade 0 events	3857	6004	44228	104847	7550	3807
rejected events	5527	8512	8262	16567	7494	6813		18%	7%	37%	19%	20%	16%
rejected %	26%	10%	7%	3%	20%	29%	grade 1 events	44	413	343	507	81	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	3513	17899	20510	117050	6267	3346
								16%	21%	17%	22%	17%	14%
							grade 3 events	1461	1251	7865	41906	2959	1575
								6%	1%	6%	7%	8%	6%
							grade 4 events	1344	1185	7847	41041	2729	1407
								6%	1%	6%	7%	7%	6%
							grade 5 events	5420	7818	7481	13924	7247	6706
								25%	9%	6%	2%	19%	29%
							grade 6 events	5308	48017	28961	207077	9499	5986
								25%	58%	24%	39%	26%	26%
							grade 7 events	0	0	0	0	0	0
								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-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	200.134939114997	Alternating exposures requested	N	N
Pointing Dec	0	-35.58499436108357	Primary exposure time	0.000000	3.3
Pointing Roll	0.0	243.2391305455242			
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	49967000.605	49966999.899991			
Observation start date	1999-08-02T07:43:21	1999-08-02T07:43:19			
Observation end time	49976834.48	49976833.75033			
Observation end date	1999-08-02T10:27:14	1999-08-02T10:27:13			
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	8.2202180821449

## 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.