

# V&V Reference Report

## L2 ASCDS Version : 8.3.2

Observation 62731 - 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

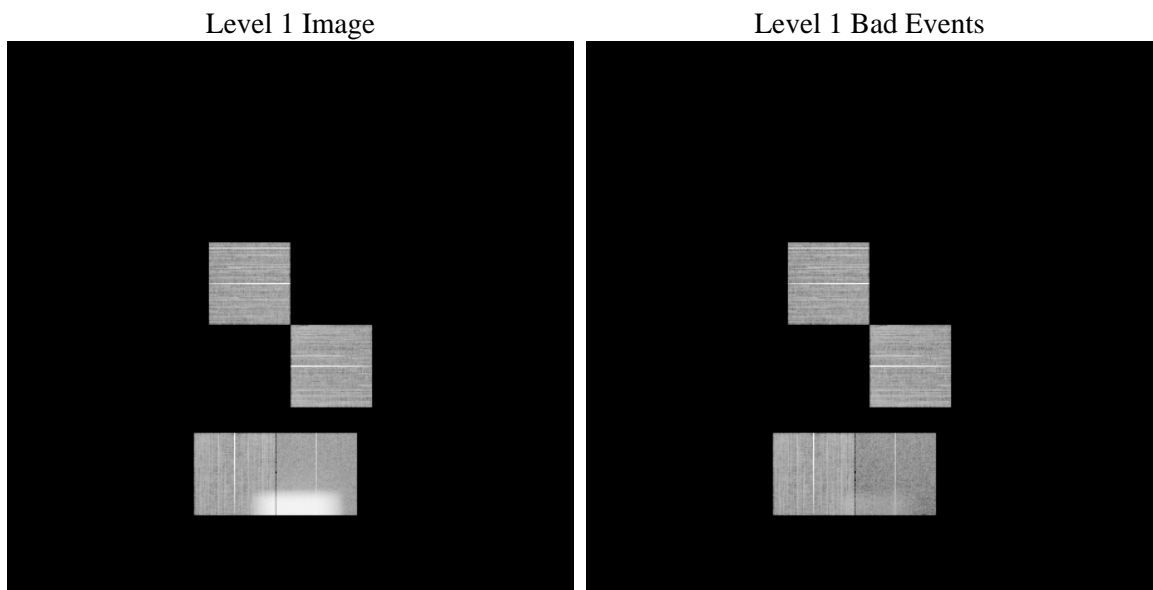
# 1 Front

seq_num	0	Sequence number
obs_id	62731	Observation id
title	ACIS-I internal cal; S2,S3,I0,I3	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	220.83605207342	Nominal RA
dec_nom	-9.0022116793457	Nominal Dec
roll_nom	252.93701288003	Nominal Roll
revision	4	Processing version of data
ontime	8487.5999923348	Sum of GTIs [s]
livetime	8383.3417063863	Livetime [s]
ontime0	8487.5999923348	Sum of GTIs [s]
ontime1	8487.5999923348	Sum of GTIs [s]
ontime2	8484.2591518313	Sum of GTIs [s]
ontime3	8487.5999923348	Sum of GTIs [s]
ontime6	8487.5999923348	Sum of GTIs [s]
ontime7	8487.5999923348	Sum of GTIs [s]
l2events	612292	Number of level 2 events

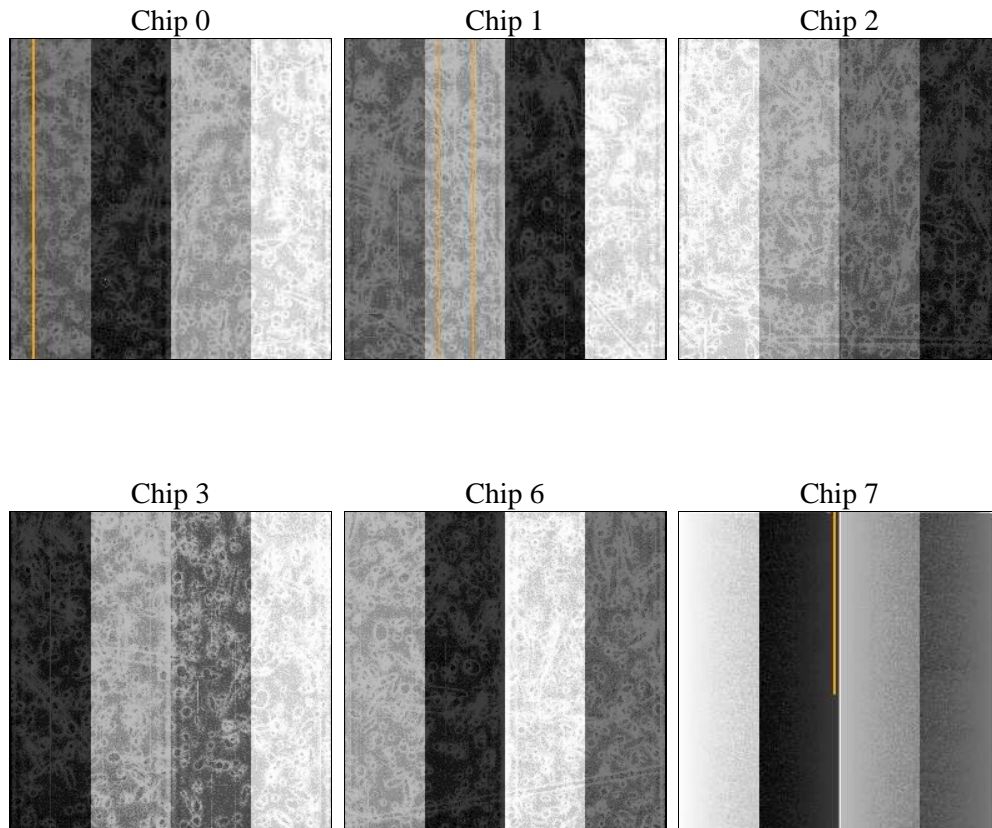
## 2 OBI

### 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
caldbver	4.3.0	&#160
date	2010-08-15T14:20:01	Date and time of file creation
revision	4	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	8487.5999923348	Sum of GTIs [s]
ontime0	8487.5999923348	Sum of GTIs [s]
ontime1	8487.5999923348	Sum of GTIs [s]
ontime2	8484.2591518313	Sum of GTIs [s]
ontime3	8487.5999923348	Sum of GTIs [s]
ontime6	8487.5999923348	Sum of GTIs [s]
ontime7	8487.5999923348	Sum of GTIs [s]
l1events	1364812	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	218909	0	0	220495	323547	601861
rejected events	210294	0	0	212147	219466	104306
rejected %	96%	0%	0%	96%	67%	17%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3713	0	0	3807	45596	105849
	1%	0%	0%	1%	14%	17%
grade 1 events	41	0	0	40	360	493
	0%	0%	0%	0%	0%	0%
grade 2 events	1813	0	0	1594	19470	119442
	0%	0%	0%	0%	6%	19%
grade 3 events	906	0	0	827	7580	42140
	0%	0%	0%	0%	2%	7%
grade 4 events	880	0	0	777	7506	41420
	0%	0%	0%	0%	2%	6%
grade 5 events	2267	0	0	2342	3117	9883
	1%	0%	0%	1%	0%	1%
grade 6 events	1397	0	0	1431	24952	193723
	0%	0%	0%	0%	7%	32%
grade 7 events	207892	0	0	209677	214966	88911
	94%	0%	0%	95%	66%	14%

## 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	220.83605207342	Alternating exposures requested	N	N
Pointing Dec	0	-9.002211679345688	Primary exposure time	0.000000	3.3
Pointing Roll	0.0	252.9370128800323			
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	50136018.059	50136016.255861			
Observation start date	1999-08-04T06:40:18	1999-08-04T06:40:16			
Observation end time	50146397.323	50146395.406225			
Observation end date	1999-08-04T09:33:17	1999-08-04T09:33:15			
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)	2010.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4875999923348

## 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.

==

Chips 1 and 2 were not telemetered.

==

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.