

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62705 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Mar 31 2010

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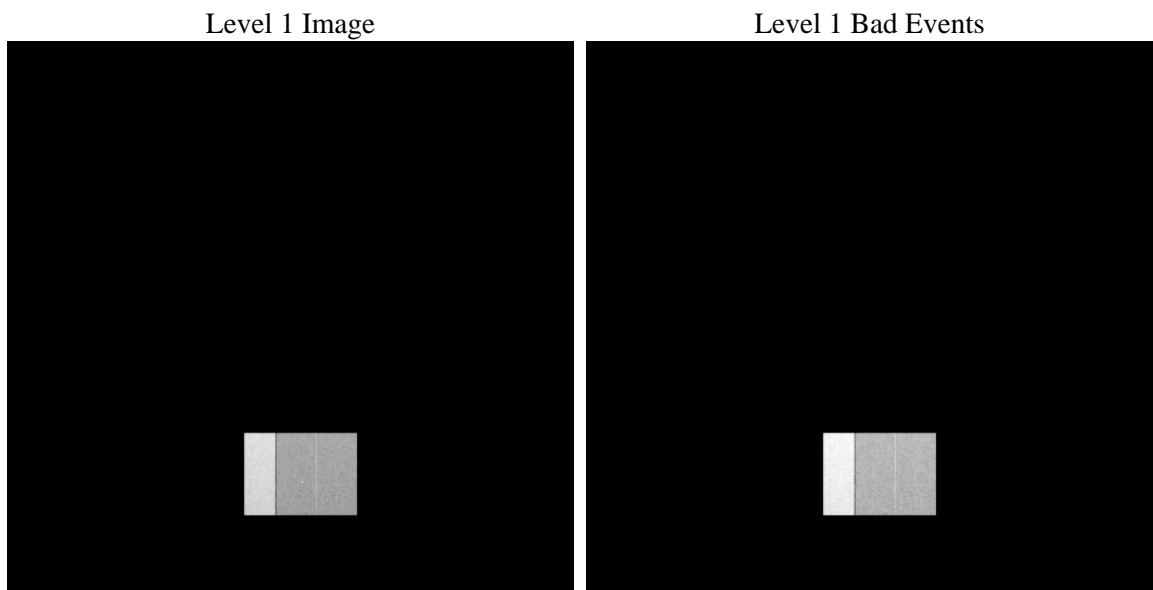
# 1 Front

seq_num	0	Sequence number
obs_id	62705	Observation id
title	ACIS unfiltered background measurement	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	Target RA
dec_targ	0.0	Target Dec
ra_nom	202.87919665449	Nominal RA
dec_nom	-57.928814156322	Nominal Dec
roll_nom	237.4337740343	Nominal Roll
revision	3	Processing version of data
ontime	5698.2413496226	Sum of GTIs [s]
livetime	5628.2464303793	Livetime [s]
ontime0	5698.2003096193	Sum of GTIs [s]
ontime1	5698.1592696235	Sum of GTIs [s]
ontime2	5698.1182296202	Sum of GTIs [s]
ontime3	5698.0771896243	Sum of GTIs [s]
ontime6	5698.036149621	Sum of GTIs [s]
ontime7	5698.2413496226	Sum of GTIs [s]
l2events	48545	Number of level 2 events

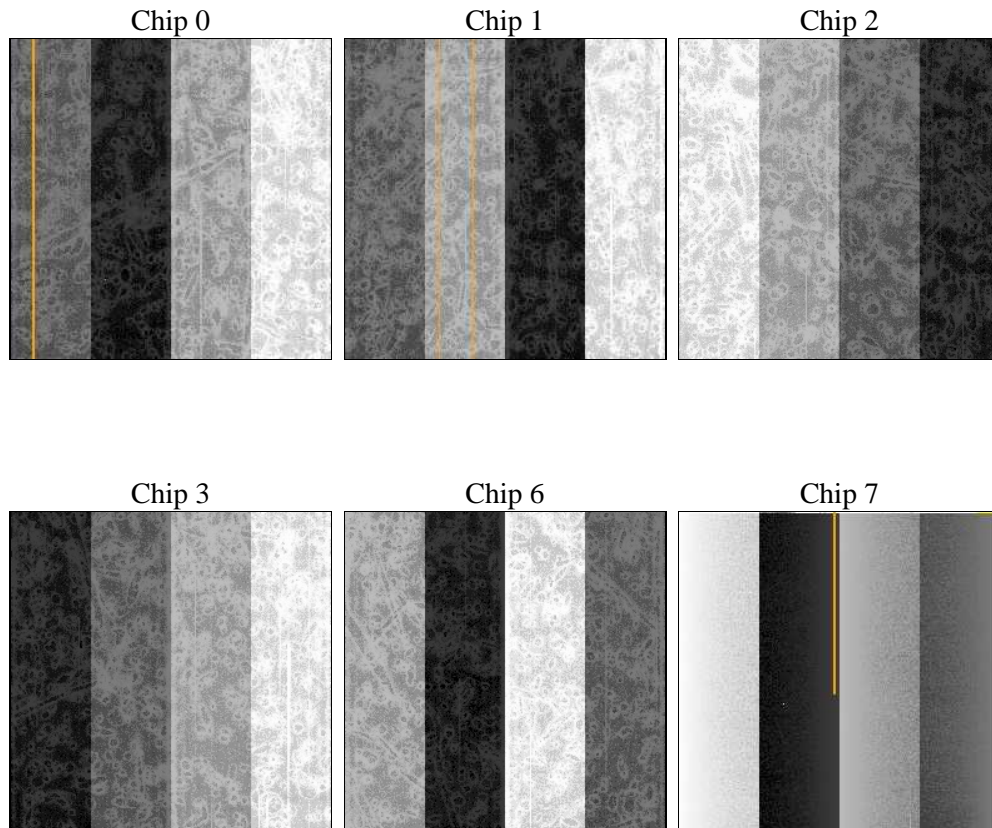
## 2 OBI

### 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	2010-03-31T20:58:04	Date and time of file creation	ontime	5698.2413496226
revision	3	Processing version of data	ontime0	5698.2003096193
			ontime1	5698.1592696235
			ontime2	5698.1182296202
			ontime3	5698.0771896243
			ontime6	5698.036149621
			ontime7	5698.2413496226
			l1events	802358
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	0	570608	231750
rejected events	0	0	0	0	566664	184414
rejected %	0%	0%	0%	0%	99%	79%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	0	952	3565
	0%	0%	0%	0%	0%	1%
grade 1 events	0	0	0	0	13	54
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	0	0	744	5912
	0%	0%	0%	0%	0%	2%
grade 3 events	0	0	0	0	375	3720
	0%	0%	0%	0%	0%	1%
grade 4 events	0	0	0	0	344	3000
	0%	0%	0%	0%	0%	1%
grade 5 events	0	0	0	0	1716	10372
	0%	0%	0%	0%	0%	4%
grade 6 events	0	0	0	0	1545	31307
	0%	0%	0%	0%	0%	13%
grade 7 events	0	0	0	0	564919	173820
	0%	0%	0%	0%	99%	75%

## 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	202.8791966544876	Alternating exposures requested	N	N
Pointing Dec	0	-57.92881415632237	Primary exposure time	0	3.3
Pointing Roll	0.0	237.4337740343049			
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	50696220.792	50696219.775652			
Observation start date	1999-08-10T18:17:01	1999-08-10T18:16:59			
Observation stop time	50704504.907	50704503.825945			
Observation end date	1999-08-10T20:35:05	1999-08-10T20:35:03			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.6982413496226

## A.2 Comments

Unfiltered background measurement with door open. Six chips were clocked, but only S3 (entire chip) and S2 (1.5 quadrants) were telemetered.

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The focal plane temperature is warmer than -90C 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.