

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62707 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Mar 31 2010

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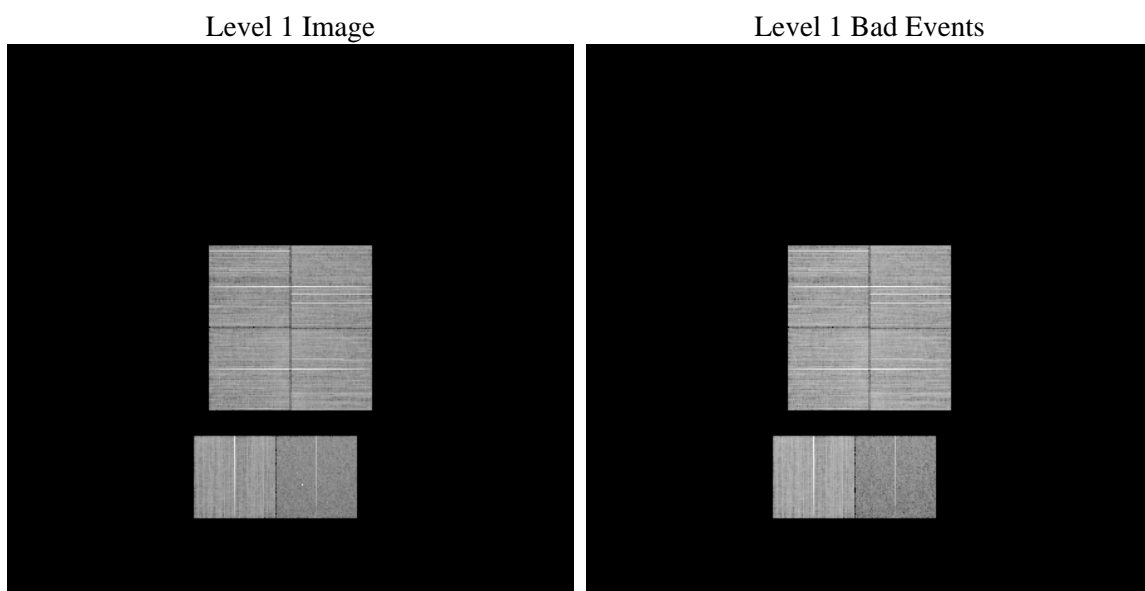
# 1 Front

seq_num	0	Sequence number
obs_id	62707	Observation id
title	ACIS-I 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	165.01522476119	Nominal RA
dec_nom	-50.595868075386	Nominal Dec
roll_nom	204.5264543554	Nominal Roll
revision	3	Processing version of data
ontime	7413.6659317315	Sum of GTIs [s]
livetime	7322.5994225492	Livetime [s]
ontime0	7413.6659018025	Sum of GTIs [s]
ontime1	7413.6659018025	Sum of GTIs [s]
ontime2	7413.6659018025	Sum of GTIs [s]
ontime3	7413.6659018025	Sum of GTIs [s]
ontime6	7413.6413135603	Sum of GTIs [s]
ontime7	7413.6659317315	Sum of GTIs [s]
l2events	65001	Number of level 2 events

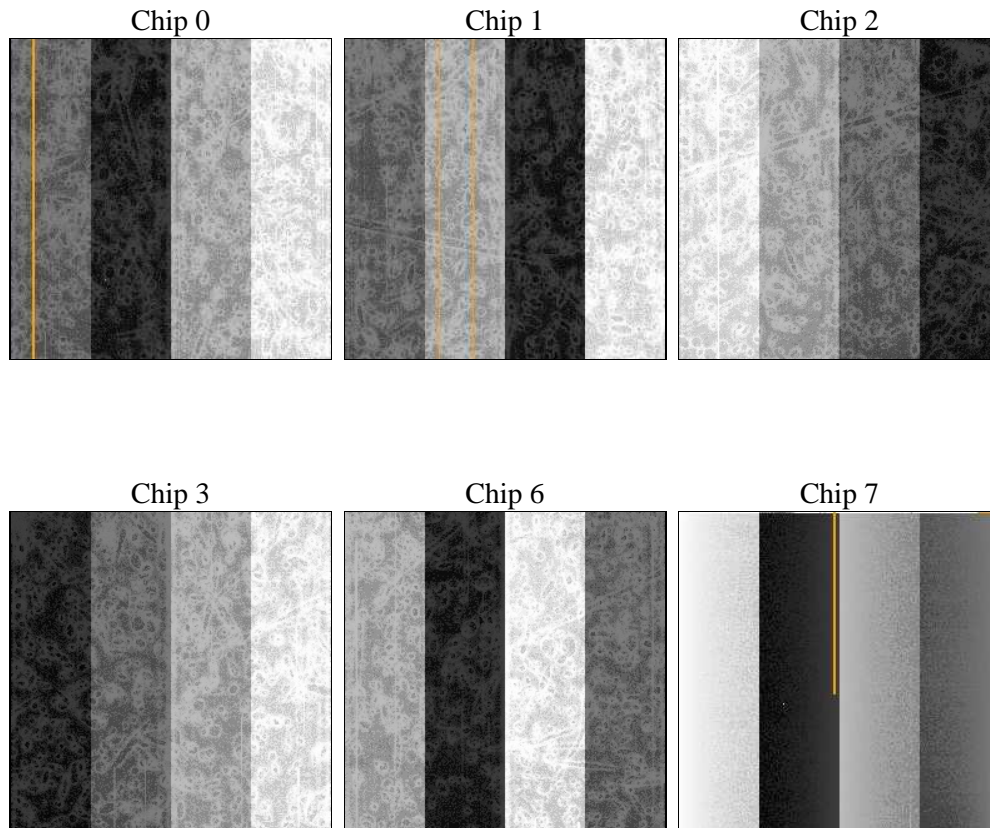
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	209001	219736	212999	214939	207964	105839
rejected events	201605	211667	206202	207660	200871	69966
rejected %	96%	96%	96%	96%	96%	66%

## 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	165.0152247611895	Alternating exposures requested	N	N
Pointing Dec	0	-50.59586807538561	Primary exposure time	0	3.3
Pointing Roll	0.0	204.5264543553977			
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	50663943.315	50663942.524513			
Observation start date	1999-08-10T09:19:03	1999-08-10T09:19:02			
Observation stop time	50673723.929	50673723.074858			
Observation end date	1999-08-10T12:02:04	1999-08-10T12:02:03			
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	2
V&V Disposition and Status	OK
V&V Charge Time	7.4136659317315

## A.2 Comments

Measurement of orbital background.

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There is no Kalman lock during this observation.

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The focal plane temperature is approximately -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 chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

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No KALMAN intervals.

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