

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62246 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Nov 29 2009

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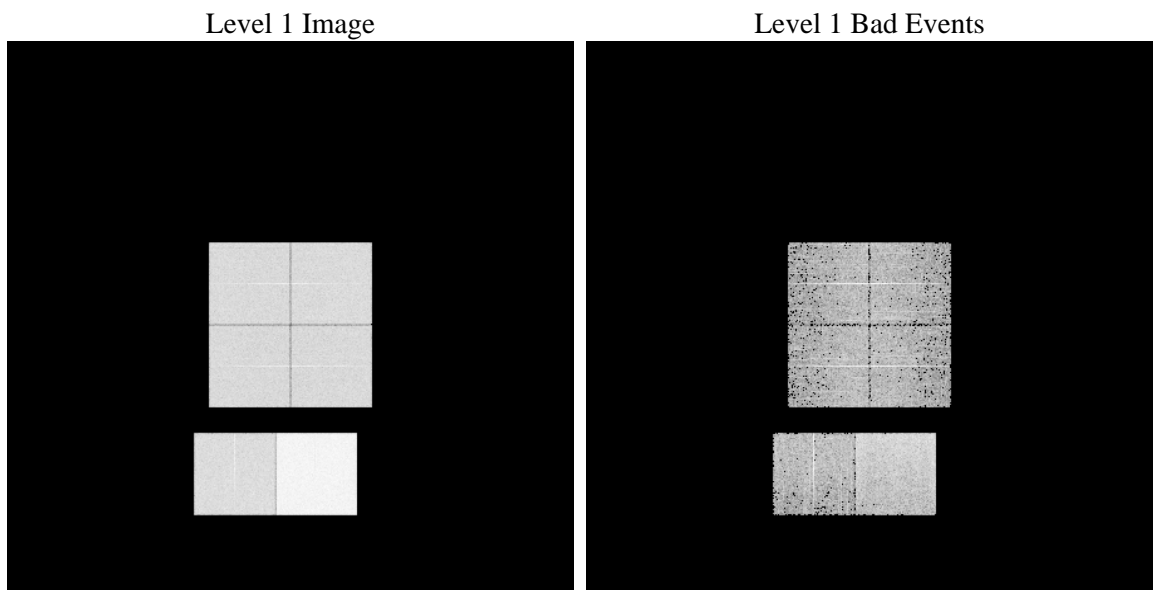
# 1 Front

seq_num	&#160	Sequence number
obs_id	62246	Observation id
title	ACIS-012367 diagnostics	Proposal title
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	83.043370552085	Nominal RA
dec_nom	-49.992466273911	Nominal Dec
roll_nom	343.6316409975	Nominal Roll
revision	4	Processing version of data
ontime	3484.445399031	Sum of GTIs [s]
livetime	3440.3232533074	Livetime [s]
ontime0	1390.7112654448	Sum of GTIs [s]
ontime1	1432.8037953749	Sum of GTIs [s]
ontime2	1342.0136352032	Sum of GTIs [s]
ontime3	1351.9008653685	Sum of GTIs [s]
ontime6	1503.8412064984	Sum of GTIs [s]
ontime7	3484.445399031	Sum of GTIs [s]
l2events	907613	Number of level 2 events

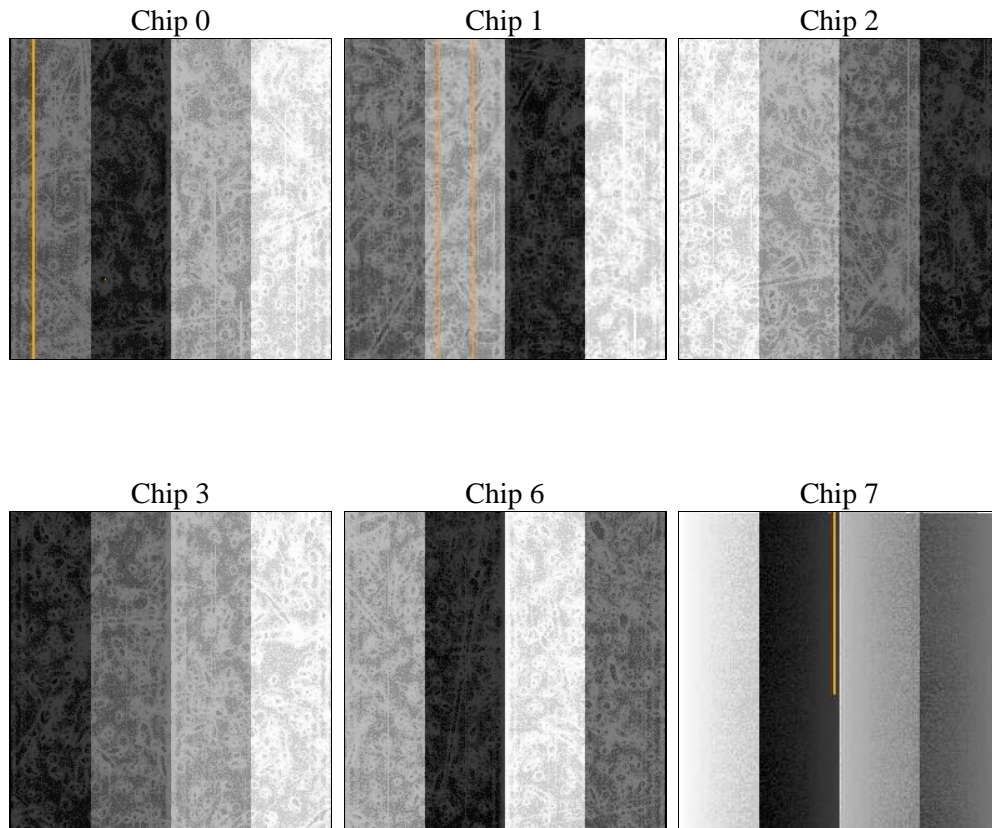
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	<table><tr><td>sched_exp_time</td><td>0.0</td><td>Scheduled observation exposure time</td></tr><tr><td>ontime</td><td>3484.445399031</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime0</td><td>1390.7112654448</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime1</td><td>1432.8037953749</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime2</td><td>1342.0136352032</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime3</td><td>1351.9008653685</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime6</td><td>1503.8412064984</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime7</td><td>3484.445399031</td><td>Sum of GTIs [s]</td></tr><tr><td>l1events</td><td>1060410</td><td>Number of level 1 events</td></tr></table>	sched_exp_time	0.0	Scheduled observation exposure time	ontime	3484.445399031	Sum of GTIs [s]	ontime0	1390.7112654448	Sum of GTIs [s]	ontime1	1432.8037953749	Sum of GTIs [s]	ontime2	1342.0136352032	Sum of GTIs [s]	ontime3	1351.9008653685	Sum of GTIs [s]	ontime6	1503.8412064984	Sum of GTIs [s]	ontime7	3484.445399031	Sum of GTIs [s]	l1events	1060410	Number of level 1 events
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ontime7	3484.445399031	Sum of GTIs [s]																												
l1events	1060410	Number of level 1 events																												
ascdsver	8.1.1	ASCDS version number																												
caldsver	4.1.4	&#160																												
date	2009-11-29T20:27:44	Date and time of file creation																												
revision	3	Processing version of data																												

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	138537	142324	135424	135562	154549	354014
rejected events	19809	20132	20935	20022	23093	39440
rejected %	14%	14%	15%	14%	14%	11%

## 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	83.04337055208538	Alternating exposures requested	N	N
Pointing Dec	0	-49.99246627391111	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	343.6316409975046			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	63038897.328	63038896.559187			
Observation start date	1999-12-31T14:48:17	1999-12-31T14:48:16			
Observation end time	63047107.578	63047106.809484			
Observation end date	1999-12-31T17:05:08	1999-12-31T17:05:06			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.484445399031

## A.2 Comments

The focal plane temperature is approximately -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 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.