

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62223 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 2 2009

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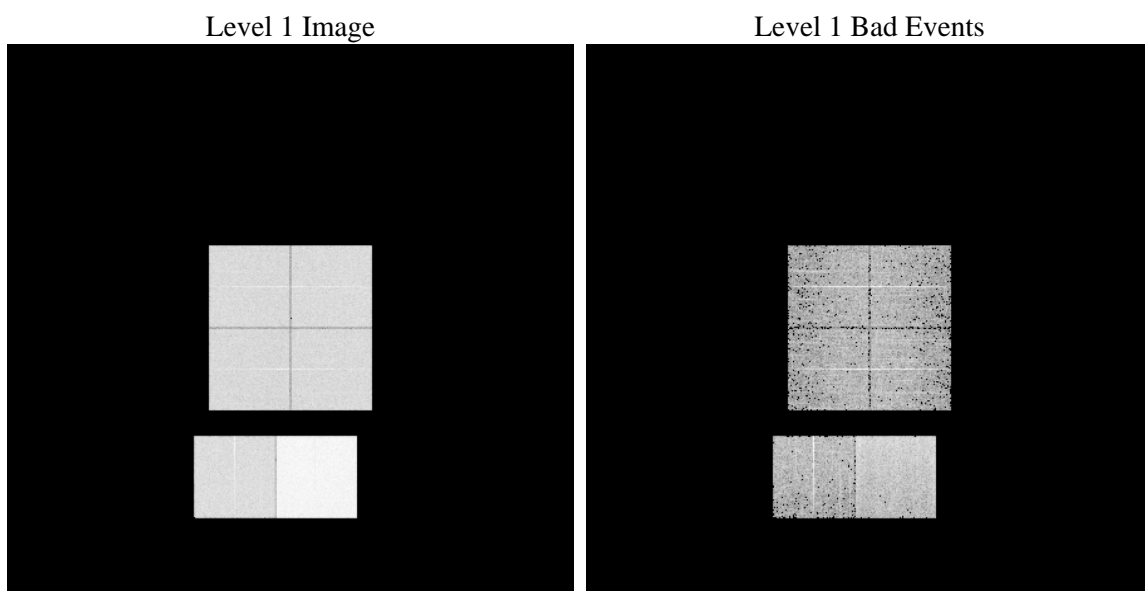
# 1 Front

seq_num	&#160	Sequence number
obs_id	62223	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	213.29431534982	Nominal RA
dec_nom	-65.327682362554	Nominal Dec
roll_nom	86.077412198059	Nominal Roll
revision	3	Processing version of data
ontime	3511.5091663301	Sum of GTIs [s]
livetime	3467.0443228891	Livetime [s]
ontime0	1393.6458461508	Sum of GTIs [s]
ontime1	1432.5382165238	Sum of GTIs [s]
ontime2	1335.3071260378	Sum of GTIs [s]
ontime3	1357.9533316866	Sum of GTIs [s]
ontime6	1510.3230370209	Sum of GTIs [s]
ontime7	3511.5091663301	Sum of GTIs [s]
l2events	903901	Number of level 2 events

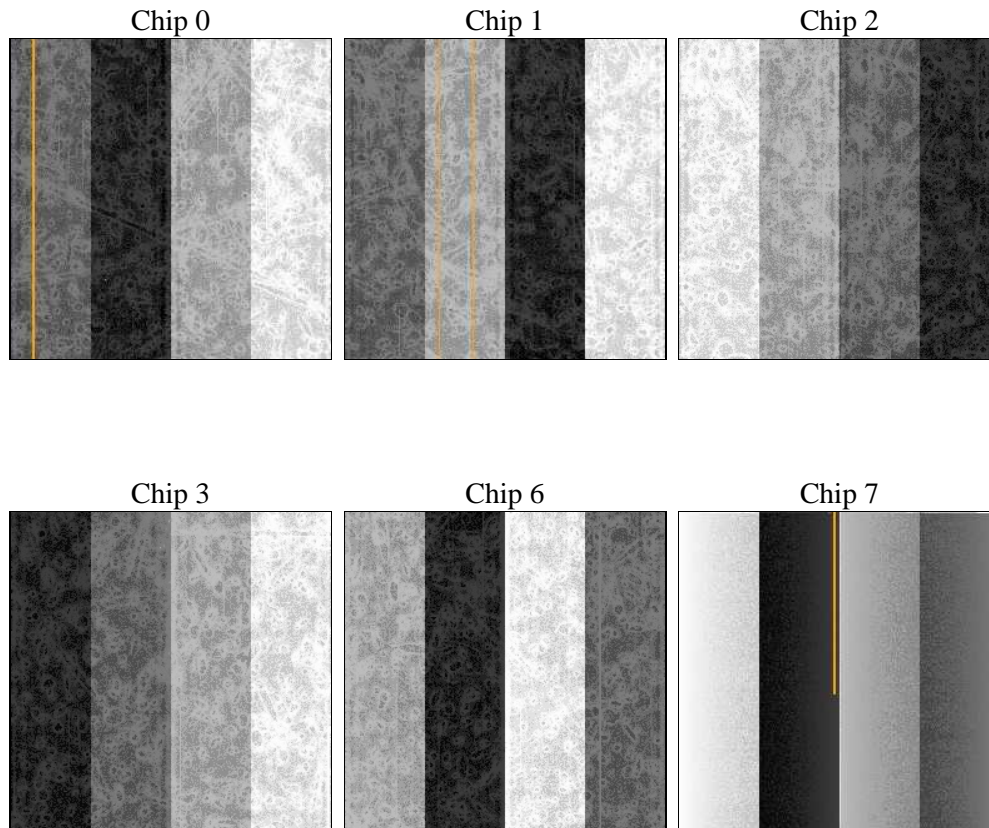
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.2	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	&#160		Scheduled observation exposure time
date	2009-12-02T21:00:57	Date and time of file creation	ontime	3511.5091663301
revision	3	Processing version of data	ontime0	1393.6458461508
			ontime1	1432.5382165238
			ontime2	1335.3071260378
			ontime3	1357.9533316866
			ontime6	1510.3230370209
			ontime7	3511.5091663301
			l1events	1059611
				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		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	137142	141304	132951	136780	154331	357103	grade 0 events	43077	44069	36165	38309	36560	58844
rejected events	19863	20133	20352	21713	24171	40006		31%	31%	27%	28%	23%	16%
rejected %	14%	14%	15%	15%	15%	11%	grade 1 events	160	189	157	173	158	153
								0%	0%	0%	0%	0%	0%
							grade 2 events	45838	47521	50067	50155	62277	90729
								33%	33%	37%	36%	40%	25%
							grade 3 events	4635	4843	3731	4064	3836	28042
								3%	3%	2%	2%	2%	7%
							grade 4 events	4576	4772	3777	3935	3814	25410
								3%	3%	2%	2%	2%	7%
							grade 5 events	1191	1203	1130	1157	1280	4965
								0%	0%	0%	0%	0%	1%
							grade 6 events	21126	21915	20456	20500	25901	119741
								15%	15%	15%	14%	16%	33%
							grade 7 events	16539	16792	17468	18487	20505	29219
								12%	11%	13%	13%	13%	8%

## 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	213.294315349815	Alternating exposures requested	N	N
Pointing Dec	0	-65.32768236255426	Primary exposure time	3.2	3.2
Pointing Roll	0.0	86.07741219805924			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	64409346.977364	64409346.208927			
Observation start date	2000-01-16T11:29:07	2000-01-16T11:29:06			
Observation end time	64416647.027629	64416646.259192			
Observation end date	2000-01-16T13:30:47	2000-01-16T13:30:46			
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)	2010.08.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5115091663301

## A.2 Comments

The focal plane temperature is approximately -110C during this observation. 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.