

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62213 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 5 2009

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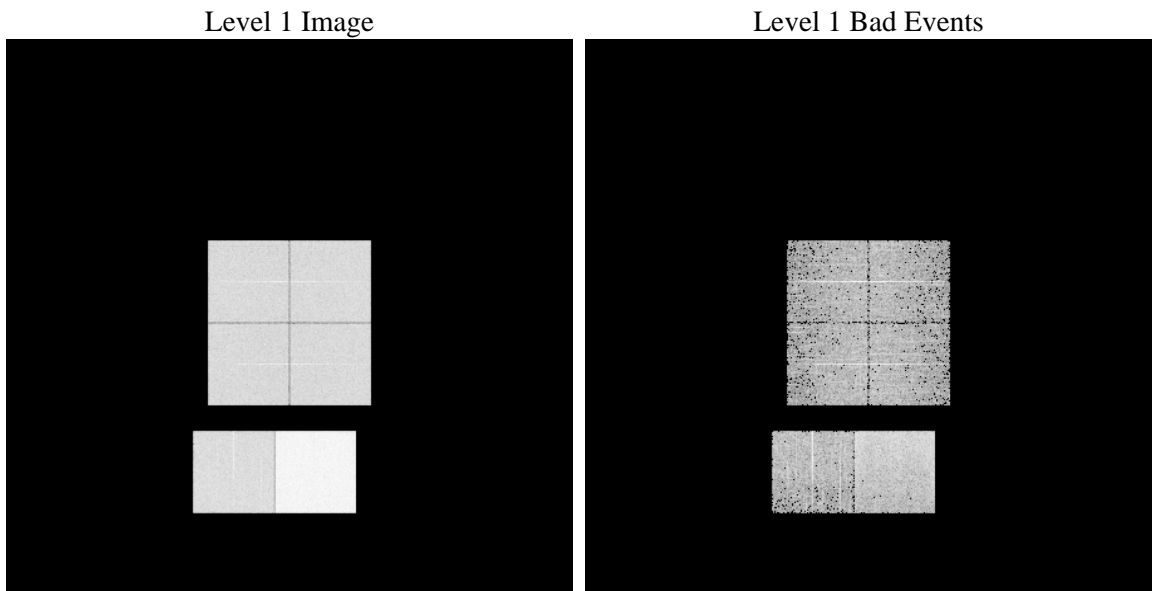
# 1 Front

seq_num	&#160	Sequence number
obs_id	62213	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	131.37620230755	Nominal RA
dec_nom	34.344009084902	Nominal Dec
roll_nom	151.36930939479	Nominal Roll
revision	3	Processing version of data
ontime	3555.6005830467	Sum of GTIs [s]
livetime	3510.5774275385	Livetime [s]
ontime0	1397.047912851	Sum of GTIs [s]
ontime1	1409.8510263935	Sum of GTIs [s]
ontime2	1354.753426075	Sum of GTIs [s]
ontime3	1367.7175063118	Sum of GTIs [s]
ontime6	1513.5643065944	Sum of GTIs [s]
ontime7	3555.6005830467	Sum of GTIs [s]
l2events	903249	Number of level 2 events

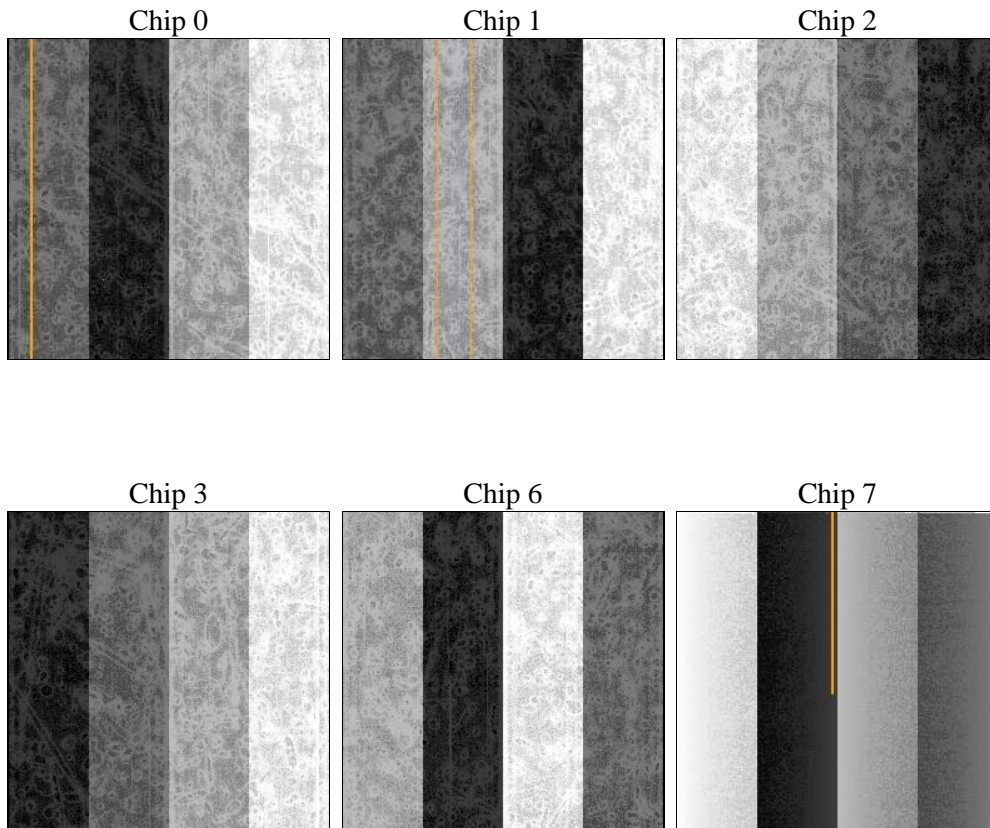
## 2 OBI

### 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	2009-12-05T15:57:12	Date and time of file creation	ontime	3555.6005830467
revision	3	Processing version of data	ontime0	1397.047912851
			ontime1	1409.8510263935
			ontime2	1354.753426075
			ontime3	1367.7175063118
			ontime6	1513.5643065944
			ontime7	3555.6005830467
			l1events	1055680
				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	136217	137640	134492	136253	154368	356710	grade 0 events	43149	42937	36794	38643	37010	59554
rejected events	19536	19881	20684	20745	23952	38268		31%	31%	27%	28%	23%	16%
rejected %	14%	14%	15%	15%	15%	10%	grade 1 events	160	155	165	177	136	137
								0%	0%	0%	0%	0%	0%
							grade 2 events	44966	46147	49986	49765	61586	90691
								33%	33%	37%	36%	39%	25%
							grade 3 events	4757	4582	3892	4073	3817	27699
								3%	3%	2%	2%	2%	7%
							grade 4 events	4601	4785	3900	4085	3824	25295
								3%	3%	2%	2%	2%	7%
							grade 5 events	1136	1174	1115	1124	1201	4958
								0%	0%	0%	0%	0%	1%
							grade 6 events	20835	20909	20868	20317	25885	119519
								15%	15%	15%	14%	16%	33%
							grade 7 events	16613	16951	17772	18069	20909	28857
								12%	12%	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	131.3762023075544	Alternating exposures requested	N	N
Pointing Dec	0	34.3440090849023	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	151.3693093947941			
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	64866166.944	64866166.175525			
Observation start date	2000-01-21T18:22:47	2000-01-21T18:22:46			
Observation end time	64874420.244	64874419.475825			
Observation end date	2000-01-21T20:40:20	2000-01-21T20:40:19			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5556005830467

## 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 chip (ACIS-7) data included here.