

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62219 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 6 2009

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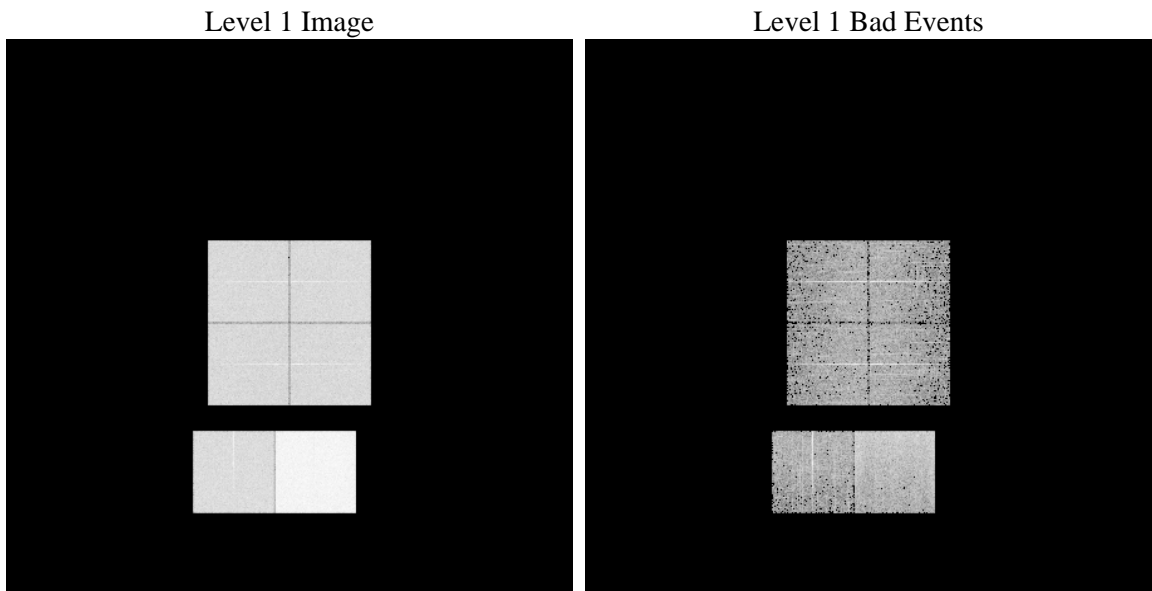
# 1 Front

seq_num	&#160	Sequence number
obs_id	62219	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	25.025262961276	Nominal RA
dec_nom	24.982411845143	Nominal Dec
roll_nom	290.91558839941	Nominal Roll
revision	3	Processing version of data
ontime	3597.7852804959	Sum of GTIs [s]
livetime	3552.227956948	Livetime [s]
ontime0	1418.7802079916	Sum of GTIs [s]
ontime1	1431.7852983028	Sum of GTIs [s]
ontime2	1358.2481499761	Sum of GTIs [s]
ontime3	1376.5646378472	Sum of GTIs [s]
ontime6	1512.8934881762	Sum of GTIs [s]
ontime7	3597.7852804959	Sum of GTIs [s]
l2events	913218	Number of level 2 events

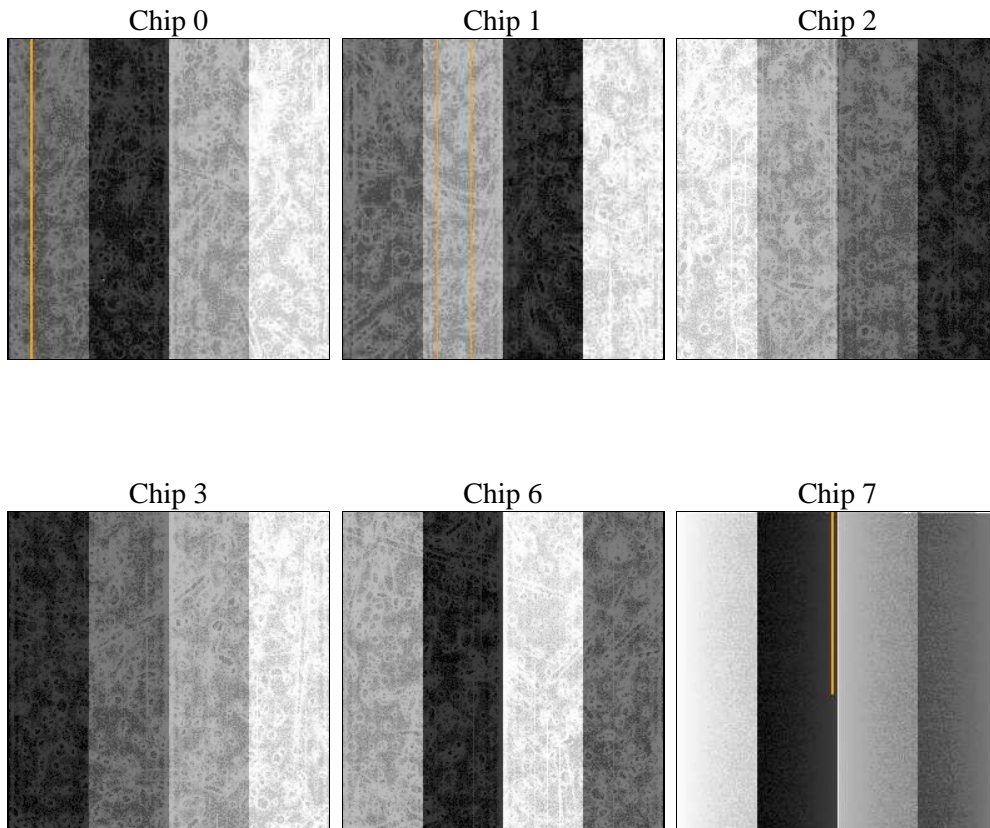
## 2 OBI

### 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
caldbver	4.1.4	&#160		Scheduled observation exposure time
date	2009-12-05T15:47:16	Date and time of file creation	ontime	3597.7852804959
revision	3	Processing version of data	ontime0	1418.7802079916
			ontime1	1431.7852983028
			ontime2	1358.2481499761
			ontime3	1376.5646378472
			ontime6	1512.8934881762
			ontime7	3597.7852804959
			l1events	1058530
				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	137428	139593	133587	136621	153495	357806	grade 0 events	43913	44871	36532	38575	36860	57075
rejected events	18513	18729	19660	20029	22200	36735		31%	32%	27%	28%	24%	15%
rejected %	13%	13%	14%	14%	14%	10%	grade 1 events	176	179	146	181	141	164
								0%	0%	0%	0%	0%	0%
							grade 2 events	44599	45205	49727	49429	61295	90592
								32%	32%	37%	36%	39%	25%
							grade 3 events	4830	4799	3777	4006	3745	27375
								3%	3%	2%	2%	2%	7%
							grade 4 events	4712	4787	3767	4086	3817	24511
								3%	3%	2%	2%	2%	6%
							grade 5 events	1143	1184	1140	1146	1231	5093
								0%	0%	0%	0%	0%	1%
							grade 6 events	20861	21202	20627	20496	25578	121977
								15%	15%	15%	15%	16%	34%
							grade 7 events	17194	17366	17871	18702	20828	31019
								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	25.02526296127624	Alternating exposures requested	N	N
Pointing Dec	0	24.98241184514308	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	290.9155883994085			
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	64634924.886	64634924.117123			
Observation start date	2000-01-19T02:08:45	2000-01-19T02:08:44			
Observation end time	64643536.936	64643536.167435			
Observation end date	2000-01-19T04:32:17	2000-01-19T04:32:16			
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	3.5977852804959

## 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.