

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62204 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 5 2009

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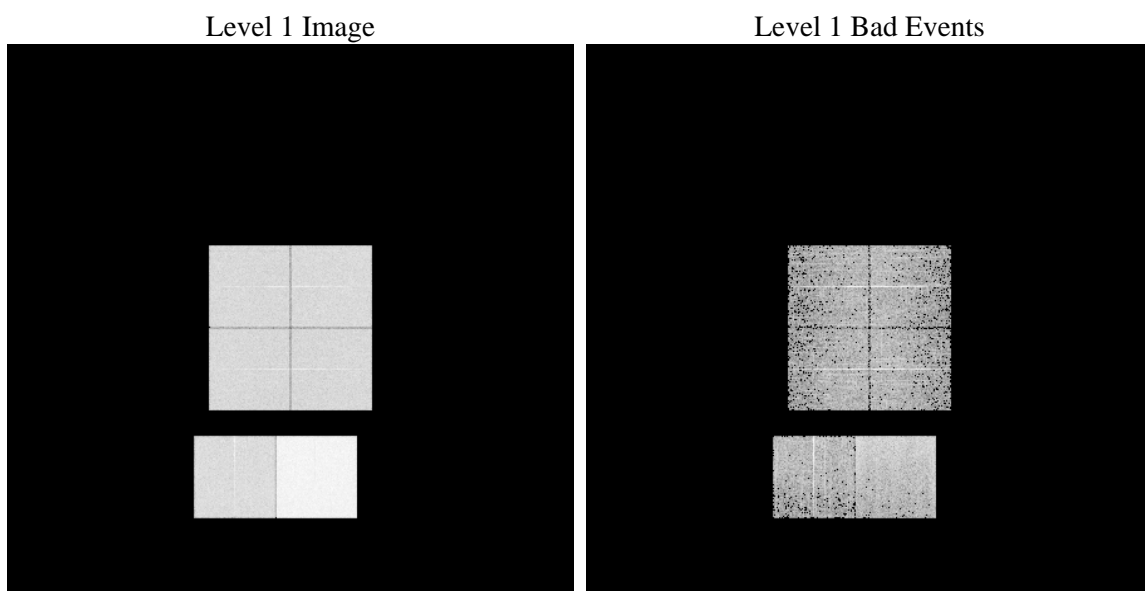
# 1 Front

seq_num	&#160	Sequence number
obs_id	62204	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	201.69314471404	Nominal RA
dec_nom	-47.468670953152	Nominal Dec
roll_nom	66.067731848145	Nominal Roll
revision	3	Processing version of data
ontime	3565.5819195658	Sum of GTIs [s]
livetime	3520.4323743646	Livetime [s]
ontime0	1416.7941903472	Sum of GTIs [s]
ontime1	1466.657822907	Sum of GTIs [s]
ontime2	1382.4319125116	Sum of GTIs [s]
ontime3	1366.0626023412	Sum of GTIs [s]
ontime6	1541.2837731764	Sum of GTIs [s]
ontime7	3565.5819195658	Sum of GTIs [s]
l2events	918540	Number of level 2 events

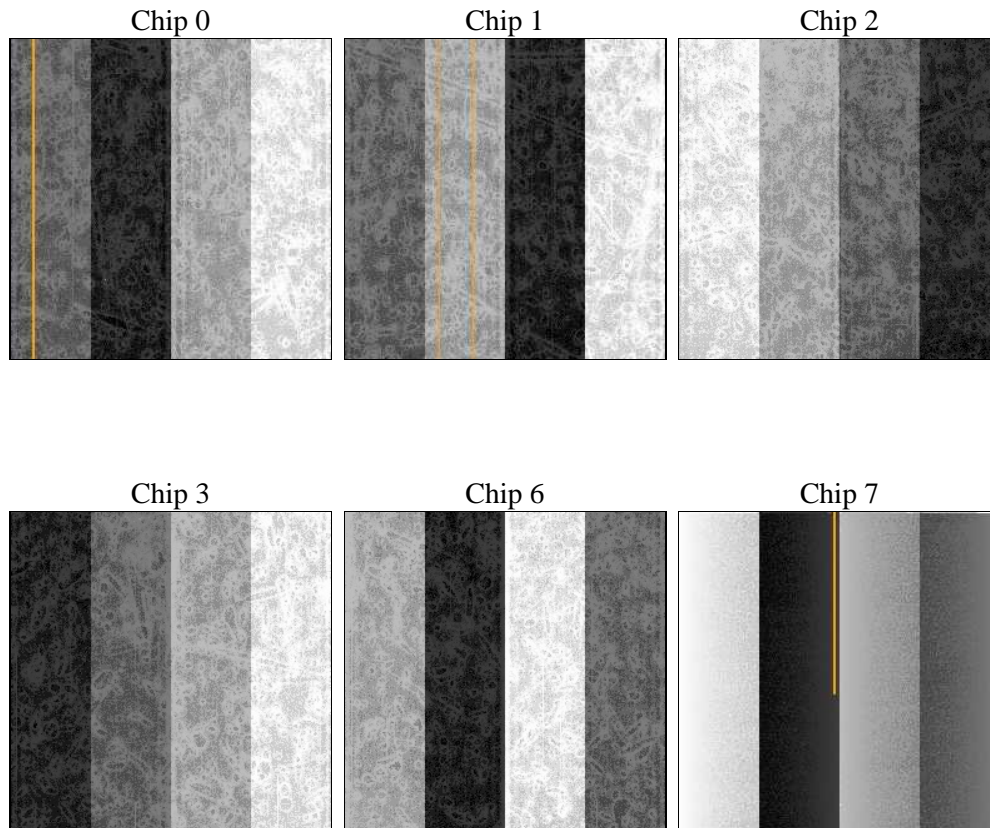
## 2 OBI

### 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	2009-12-05T16:51:52	Date and time of file creation	ontime	3565.5819195658
revision	3	Processing version of data	ontime0	1416.7941903472
			ontime1	1466.657822907
			ontime2	1382.4319125116
			ontime3	1366.0626023412
			ontime6	1541.2837731764
			ontime7	3565.5819195658
			l1events	1057052
				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	136733	141888	135028	134236	155236	353931	grade 0 events	43026	44439	36250	37624	37279	59717
rejected events	17858	18562	18621	19296	21964	32708		31%	31%	26%	28%	24%	16%
rejected %	13%	13%	13%	14%	14%	9%	grade 1 events	182	171	155	147	158	139
								0%	0%	0%	0%	0%	0%
							grade 2 events	45766	47536	51308	49316	61769	89971
								33%	33%	37%	36%	39%	25%
							grade 3 events	4621	4838	3809	3894	3847	28079
								3%	3%	2%	2%	2%	7%
							grade 4 events	4597	4815	3816	3973	3889	25010
								3%	3%	2%	2%	2%	7%
							grade 5 events	1133	1201	1145	1176	1209	4888
								0%	0%	0%	0%	0%	1%
							grade 6 events	20865	21698	21224	20421	26488	118446
								15%	15%	15%	15%	17%	33%
							grade 7 events	16543	17190	17321	17685	20597	27681
								12%	12%	12%	13%	13%	7%

## 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	201.6931447140363	Alternating exposures requested	N	N
Pointing Dec	0	-47.4686709531523	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	66.06773184814472			
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	65154661.405	65154660.636011			
Observation start date	2000-01-25T02:31:01	2000-01-25T02:31:00			
Observation end time	65161971.705	65161970.936277			
Observation end date	2000-01-25T04:32:52	2000-01-25T04:32:50			
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)	2010.01.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5655819195658

## 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.