

# V&V Reference Report

## L2 ASCDS Version : 8.1.2

Observation 62205 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 5 2009

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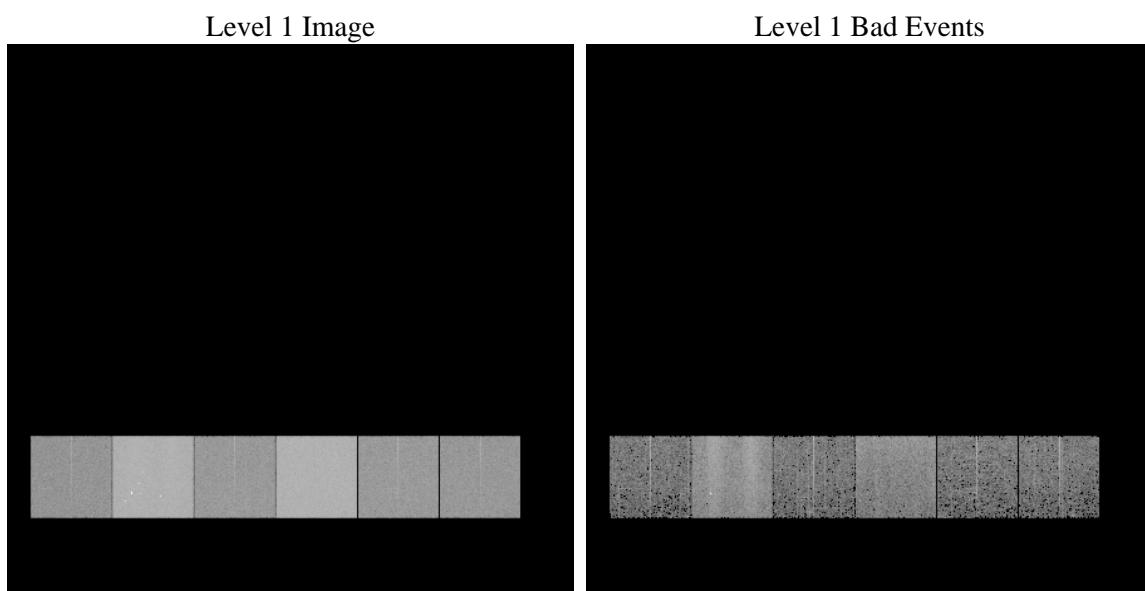
# 1 Front

seq_num	&#160	Sequence number
obs_id	62205	Observation id
title	ACIS-456789 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	201.6935419155	Nominal RA
dec_nom	-47.469606301166	Nominal Dec
roll_nom	66.068279356257	Nominal Roll
revision	3	Processing version of data
ontime	2860.0943204835	Sum of GTIs [s]
livetime	2823.8780840555	Livetime [s]
ontime4	1079.2650253475	Sum of GTIs [s]
ontime5	3049.8059877902	Sum of GTIs [s]
ontime6	1225.1116660461	Sum of GTIs [s]
ontime7	2860.0943204835	Sum of GTIs [s]
ontime8	1225.1117458344	Sum of GTIs [s]
ontime9	1179.7371258959	Sum of GTIs [s]
l2events	882814	Number of level 2 events

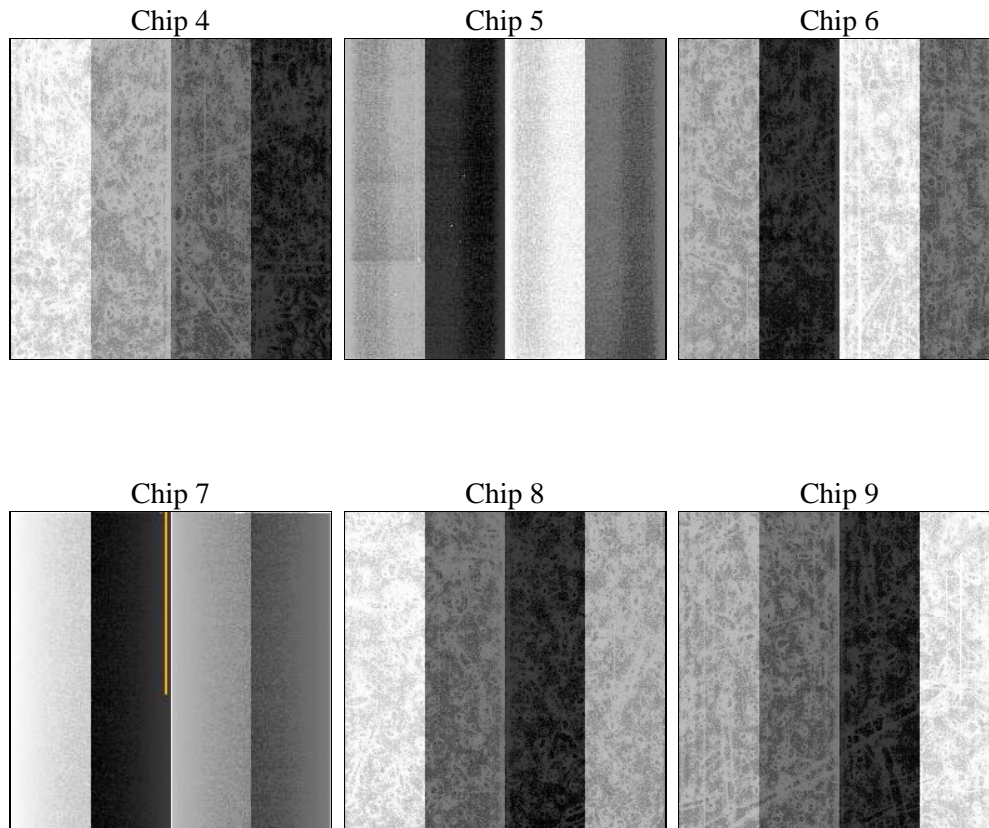
## 2 OBI

### 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		
date	2009-12-05T16:51:50	Date and time of file creation	ontime	2860.0943204835
revision	3	Processing version of data	ontime4	1079.2650253475
			ontime5	3049.8059877902
			ontime6	1225.1116660461
			ontime7	2860.0943204835
			ontime8	1225.1117458344
			ontime9	1179.7371258959
			l1events	1060852

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	105894	287033	126825	292888	129054	119158	grade 0 events	19957	26350	29528	47726	38588	31372
rejected events	19442	51966	20308	34436	20181	19448		18%	9%	23%	16%	29%	26%
rejected %	18%	18%	16%	11%	15%	16%	grade 1 events	87	108	116	90	147	125
								0%	0%	0%	0%	0%	0%
							grade 2 events	48131	93736	51607	74410	43931	45045
								45%	32%	40%	25%	34%	37%
							grade 3 events	2033	12342	2997	22647	4107	3217
								1%	4%	2%	7%	3%	2%
							grade 4 events	1946	10667	3054	20402	4166	3306
								1%	3%	2%	6%	3%	2%
							grade 5 events	860	5184	1025	4079	1196	1039
								0%	1%	0%	1%	0%	0%
							grade 6 events	16481	96784	21603	98837	20039	18956
								15%	33%	17%	33%	15%	15%
							grade 7 events	16399	41862	16895	24697	16880	16098
								15%	14%	13%	8%	13%	13%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	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	201.6935419154975	Alternating exposures requested	N	N
Pointing Dec	0	-47.46960630116631	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	66.06827935625719			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	65147361.354	65147360.585746			
Observation start date	2000-01-25T00:29:21	2000-01-25T00:29:20			
Observation end time	65154661.405	65154660.636011			
Observation end date	2000-01-25T02:31:01	2000-01-25T02:31:00			
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	2.8600943204835

## 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.