

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62354 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

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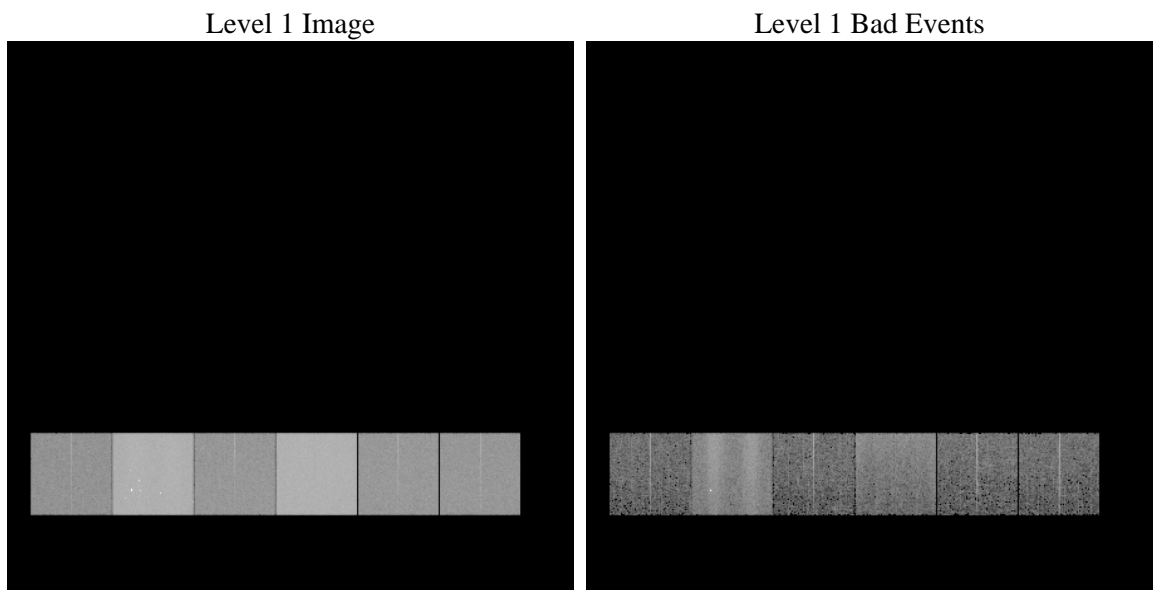
# 1 Front

seq_num	&#160	Sequence number
obs_id	62354	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	97.683674585829	Nominal RA
dec_nom	-50.672897439291	Nominal Dec
roll_nom	79.19930333979	Nominal Roll
revision	3	Processing version of data
ontime	3941.7856971025	Sum of GTIs [s]
livetime	3891.8724331474	Livetime [s]
ontime4	1421.7622013837	Sum of GTIs [s]
ontime5	4192.8006510809	Sum of GTIs [s]
ontime6	1606.6245119497	Sum of GTIs [s]
ontime7	3941.7856971025	Sum of GTIs [s]
ontime8	1634.1725044474	Sum of GTIs [s]
ontime9	1635.7527821362	Sum of GTIs [s]
l2events	1288446	Number of level 2 events

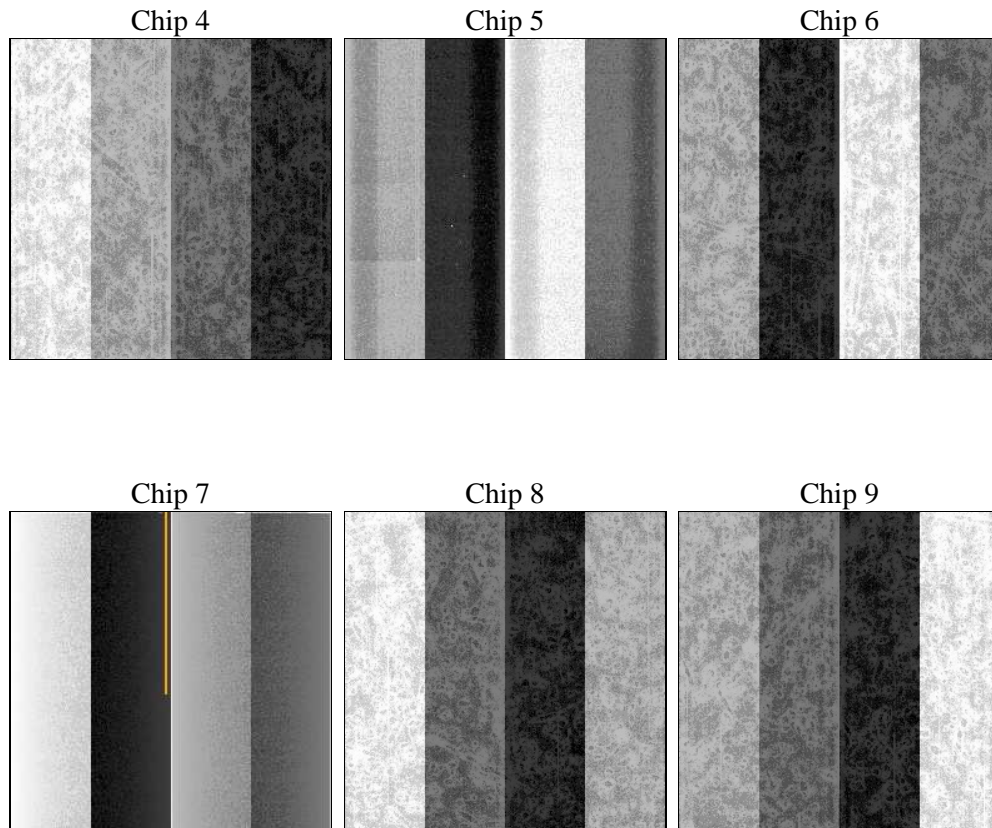
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.1	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	&#160		
date	2009-11-19T23:33:24	Date and time of file creation	ontime	3941.7856971025
revision	3	Processing version of data	ontime4	1421.7622013837
			ontime5	4192.8006510809
			ontime6	1606.6245119497
			ontime7	3941.7856971025
			ontime8	1634.1725044474
			ontime9	1635.7527821362
			l1events	1522218

### 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	146450	420194	174410	428260	180595	172309	grade 0 events	28855	37727	41244	68406	54809	45860
rejected events	25129	70905	25741	42768	26450	24994		19%	8%	23%	15%	30%	26%
rejected %	17%	16%	14%	9%	14%	14%	grade 1 events	144	192	212	180	233	212
								0%	0%	0%	0%	0%	0%
							grade 2 events	64408	134525	69997	108090	60482	64383
								43%	32%	40%	25%	33%	37%
							grade 3 events	2905	17968	4253	33630	5857	4852
								1%	4%	2%	7%	3%	2%
							grade 4 events	2934	15519	4179	29882	5790	4774
								2%	3%	2%	6%	3%	2%
							grade 5 events	1277	7511	1528	6071	1588	1489
								0%	1%	0%	1%	0%	0%
							grade 6 events	22219	143550	28996	145484	27207	27446
								15%	34%	16%	33%	15%	15%
							grade 7 events	23708	63202	24001	36517	24629	23293
								16%	15%	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	97.68367458582911	Alternating exposures requested	N	N
Pointing Dec	0	-50.67289743929148	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	79.19930333978996			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	56008721.374	56008720.60515			
Observation start date	1999-10-11T05:58:41	1999-10-11T05:58:40			
Observation end time	56018520.374	56018519.605503			
Observation end date	1999-10-11T08:42:00	1999-10-11T08:41:59			
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	3.9417856971025

## 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.