

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62238 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 29 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

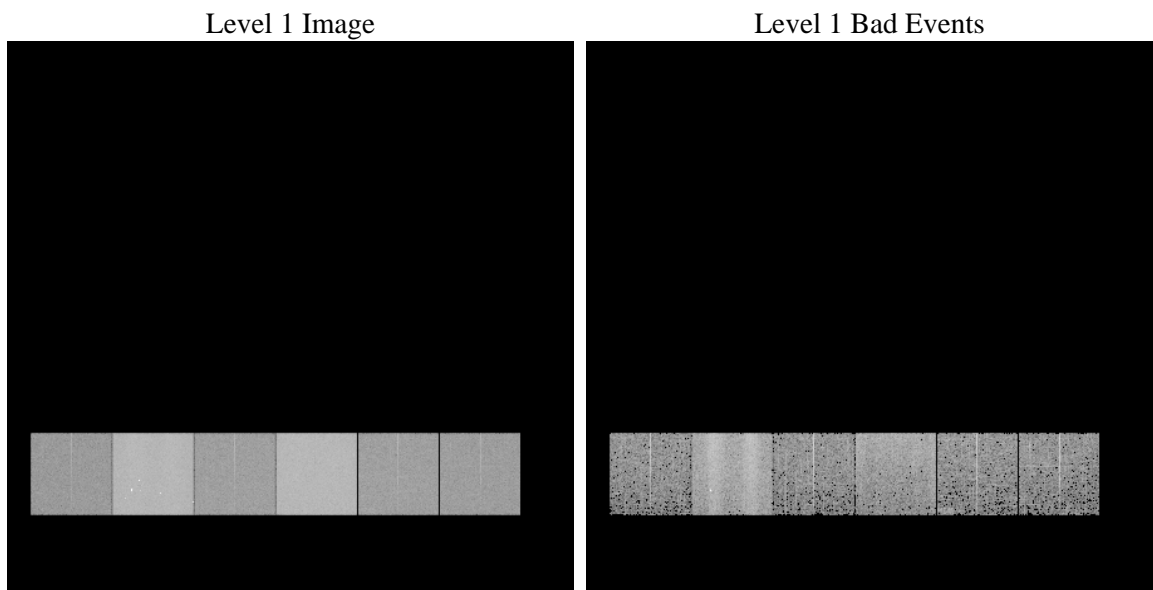
1 Front

seq_num	 	Sequence number
obs_id	62238	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
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	164.50671533504	Nominal RA
dec_nom	-52.438831544172	Nominal Dec
roll_nom	52.268790323631	Nominal Roll
revision	4	Processing version of data
ontime	2751.0125815794	Sum of GTIs [s]
livetime	2716.1776038105	Livetime [s]
ontime4	1027.4084152356	Sum of GTIs [s]
ontime5	2926.6500490233	Sum of GTIs [s]
ontime6	1175.7905844003	Sum of GTIs [s]
ontime7	2751.0125815794	Sum of GTIs [s]
ontime8	1173.2551057935	Sum of GTIs [s]
ontime9	1131.1216056421	Sum of GTIs [s]
l2events	899528	Number of level 2 events

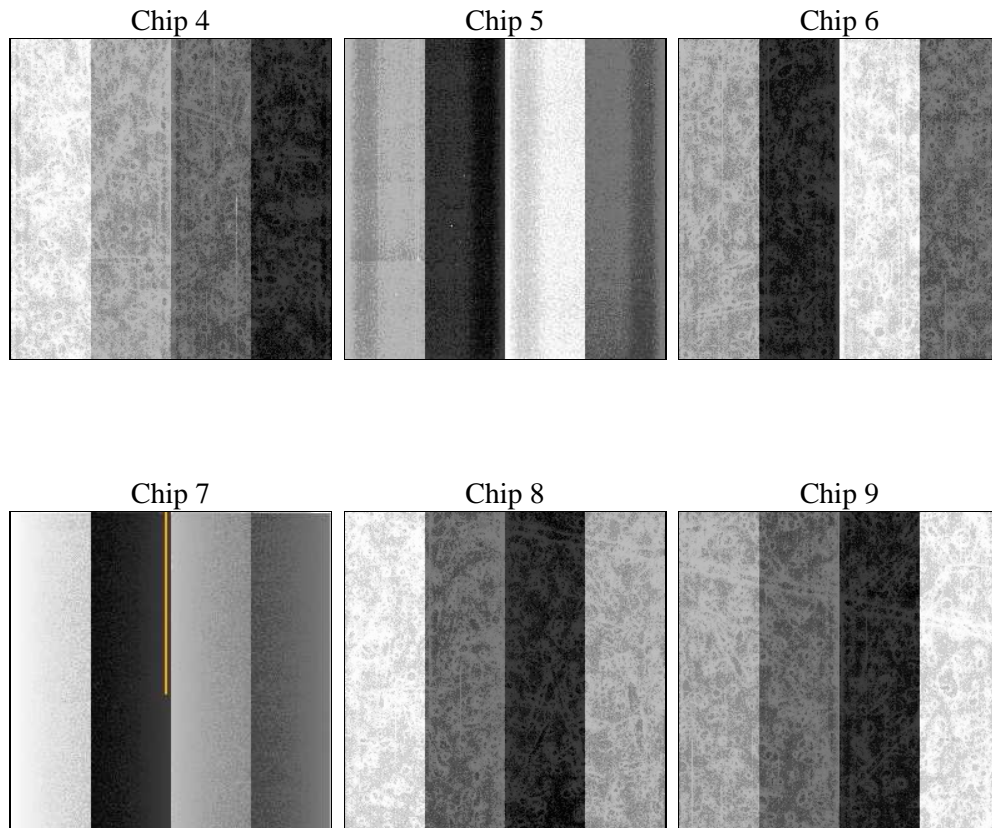
2 OBI

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	 		Scheduled observation exposure time
date	2009-11-29T22:20:57	Date and time of file creation	ontime	2751.0125815794
revision	3	Processing version of data	ontime4	1027.4084152356
			ontime5	2926.6500490233
			ontime6	1175.7905844003
			ontime7	2751.0125815794
			ontime8	1173.2551057935
			ontime9	1131.1216056421
			l1events	1065299
				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 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	106098	287977	128158	293459	130399	119208	grade 0 events	19488	27732	29423	47849	37586	29825
rejected events	18919	46714	19640	29246	19933	18240		18%	9%	22%	16%	28%	25%
rejected %	17%	16%	15%	9%	15%	15%	grade 1 events	101	281	142	132	191	133
								0%	0%	0%	0%	0%	0%
							grade 2 events	47379	92594	51153	74165	44353	45166
								44%	32%	39%	25%	34%	37%
							grade 3 events	2040	12596	3040	22340	4055	3109
								1%	4%	2%	7%	3%	2%
							grade 4 events	2016	11041	3107	20073	4158	3221
								1%	3%	2%	6%	3%	2%
							grade 5 events	952	4605	1078	3996	1224	1035
								0%	1%	0%	1%	0%	0%
							grade 6 events	16256	97300	21795	99786	20314	19647
								15%	33%	17%	34%	15%	16%
							grade 7 events	17866	41828	18420	25118	18518	17072
								16%	14%	14%	8%	14%	14%

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	164.5067153350377	Alternating exposures requested	N	N
Pointing Dec	0	-52.43883154417226	Primary exposure time	3.2	3.2
Pointing Roll	0.0	52.26879032363102			
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	63502547.894249	63502547.125999			
Observation start date	2000-01-05T23:35:48	2000-01-05T23:35:47			
Observation end time	63543369.545968	63543368.77748			
Observation end date	2000-01-06T10:56:10	2000-01-06T10:56:08			
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)	2010.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7510125815794

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.