

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62203 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 6 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

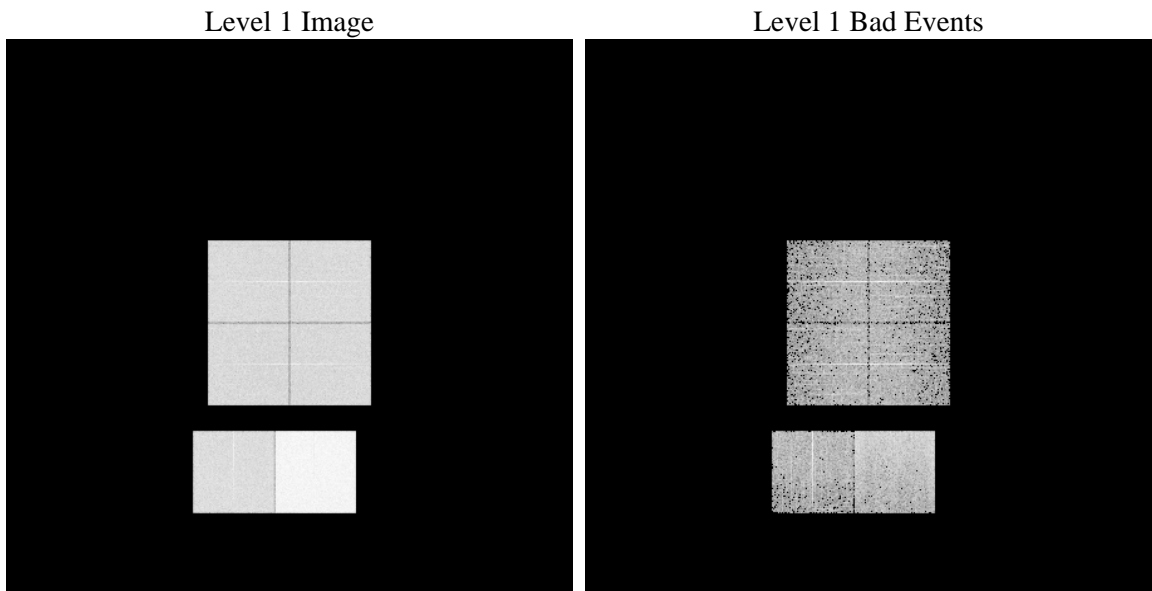
1 Front

seq_num	 	Sequence number
obs_id	62203	Observation id
title	ACIS-012367 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	206.79425156345	Nominal RA
dec_nom	-32.871553748108	Nominal Dec
roll_nom	67.991874878906	Nominal Roll
revision	3	Processing version of data
ontime	3585.0673593804	Sum of GTIs [s]
livetime	3539.6710778075	Livetime [s]
ontime0	1449.2428304181	Sum of GTIs [s]
ontime1	1439.5196505412	Sum of GTIs [s]
ontime2	1352.0115703717	Sum of GTIs [s]
ontime3	1381.1809304282	Sum of GTIs [s]
ontime6	1542.7336268052	Sum of GTIs [s]
ontime7	3585.0673593804	Sum of GTIs [s]
l2events	916554	Number of level 2 events

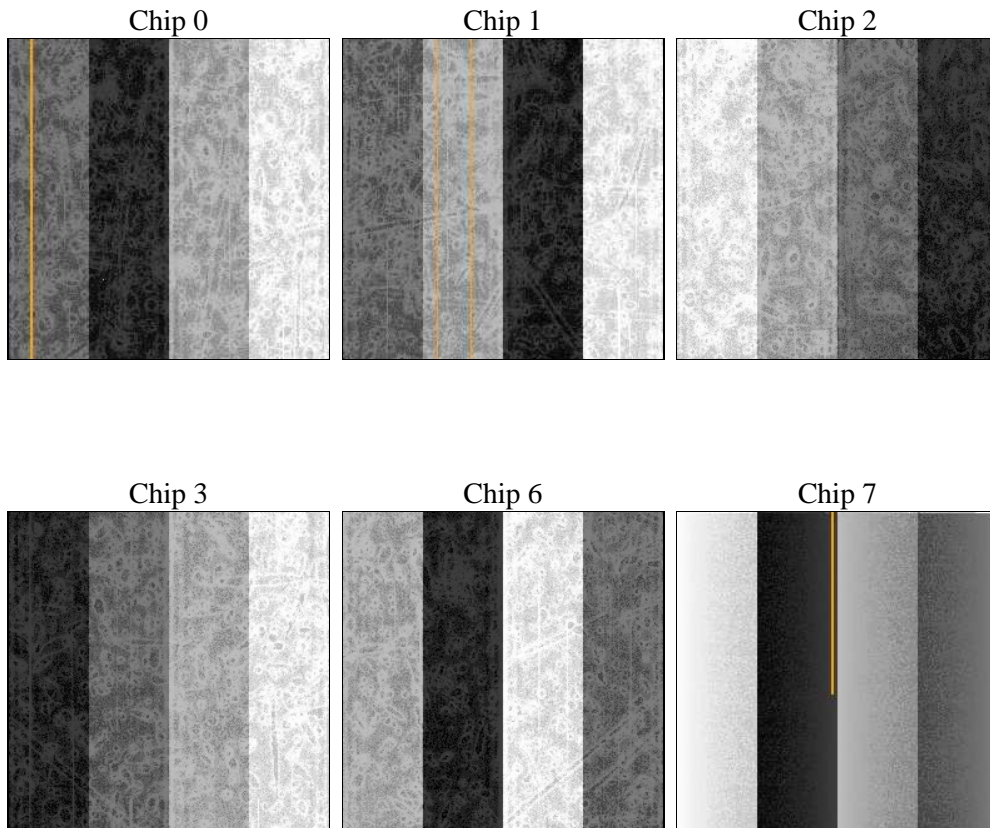
2 OBI

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	 		Scheduled observation exposure time
date	2009-12-05T17:06:06	Date and time of file creation	ontime	3585.0673593804
revision	3	Processing version of data	ontime0	1449.2428304181
			ontime1	1439.5196505412
			ontime2	1352.0115703717
			ontime3	1381.1809304282
			ontime6	1542.7336268052
			ontime7	3585.0673593804
			l1events	1057291
				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	139306	140361	133011	135554	154278	354781	grade 0 events	44549	44665	36429	38686	36960	59555
rejected events	17821	19288	19745	19036	21703	33698		31%	31%	27%	28%	23%	16%
rejected %	12%	13%	14%	14%	14%	9%	grade 1 events	183	180	150	168	144	140
								0%	0%	0%	0%	0%	0%
							grade 2 events	46122	46174	49170	49455	61988	90126
								33%	32%	36%	36%	40%	25%
							grade 3 events	4978	4829	3798	4024	3746	27788
								3%	3%	2%	2%	2%	7%
							grade 4 events	4708	4619	3830	4020	3695	24833
								3%	3%	2%	2%	2%	6%
							grade 5 events	1176	1189	1082	1224	1247	4877
								0%	0%	0%	0%	0%	1%
							grade 6 events	21391	21064	20314	20619	26186	119055
								15%	15%	15%	15%	16%	33%
							grade 7 events	16199	17641	18238	17358	20312	28407
								11%	12%	13%	12%	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	206.7942515634466	Alternating exposures requested	N	N
Pointing Dec	0	-32.87155374810798	Primary exposure time	3.2	3.2
Pointing Roll	0.0	67.99187487890639			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	65320844.660567	65320843.892053			
Observation start date	2000-01-27T00:40:45	2000-01-27T00:40:43			
Observation end time	65329104.110867	65329103.342354			
Observation end date	2000-01-27T02:58:24	2000-01-27T02:58:23			
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)	2010.01.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5850673593804

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.