

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62239 - 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

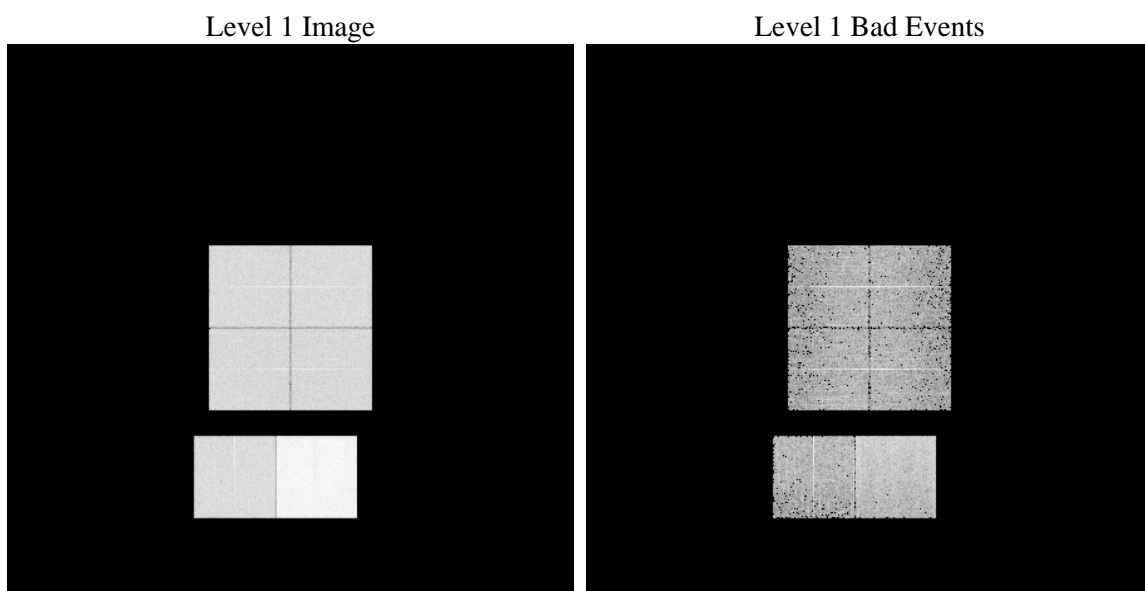
1 Front

seq_num	 	Sequence number
obs_id	62239	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	164.50677283643	Nominal RA
dec_nom	-52.439856598705	Nominal Dec
roll_nom	52.275479199009	Nominal Roll
revision	4	Processing version of data
ontime	3422.5171201304	Sum of GTIs [s]
livetime	3379.1791475629	Livetime [s]
ontime0	1387.1637262106	Sum of GTIs [s]
ontime1	1431.1177683622	Sum of GTIs [s]
ontime2	1299.65567597	Sum of GTIs [s]
ontime3	1301.5993180424	Sum of GTIs [s]
ontime6	1451.9843667522	Sum of GTIs [s]
ontime7	3422.5171201304	Sum of GTIs [s]
l2events	895253	Number of level 2 events

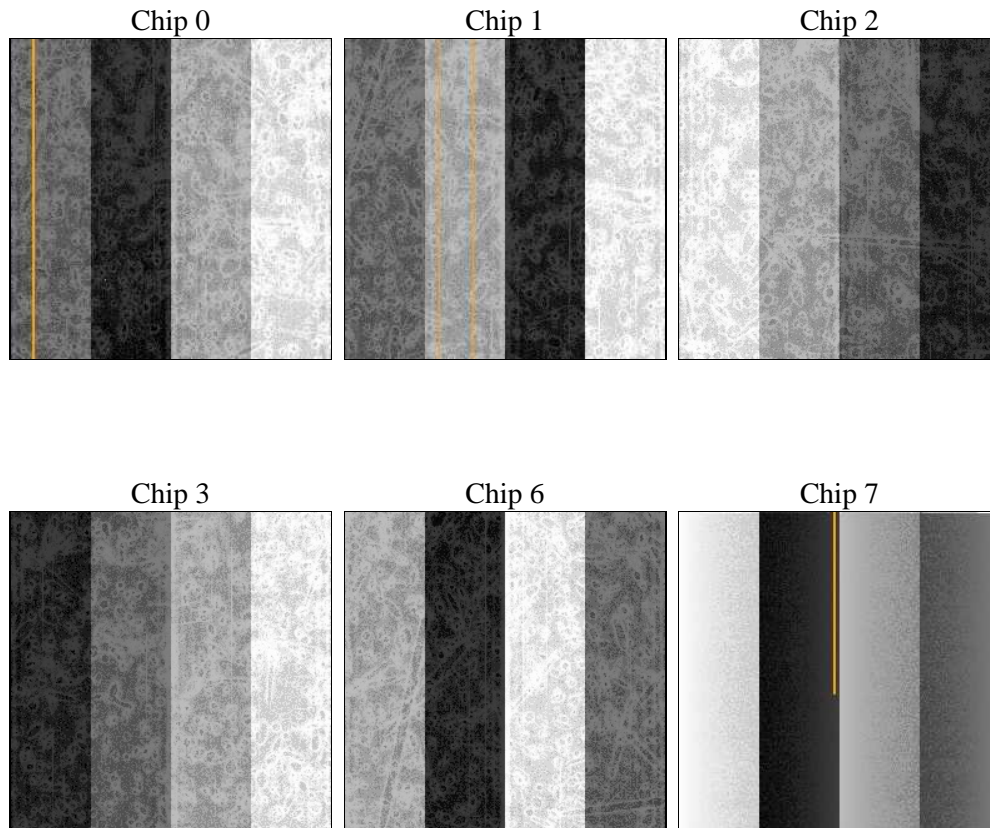
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	3422.5171201304	Sum of GTIs [s]
caldsver	4.1.4	 	ontime0	1387.1637262106	Sum of GTIs [s]
date	2009-11-29T22:22:31	Date and time of file creation	ontime1	1431.1177683622	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1299.65567597	Sum of GTIs [s]
			ontime3	1301.5993180424	Sum of GTIs [s]
			ontime6	1451.9843667522	Sum of GTIs [s]
			ontime7	3422.5171201304	Sum of GTIs [s]
			l1events	1053490	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	139316	142912	132546	133092	151270	354354	grade 0 events	43398	45110	34774	36921	35994	58065
rejected events	20811	20431	22030	21086	24277	40324		31%	31%	26%	27%	23%	16%
rejected %	14%	14%	16%	15%	16%	11%	grade 1 events	189	188	165	155	157	115
								0%	0%	0%	0%	0%	0%
							grade 2 events	46459	47679	50273	49064	60301	90054
								33%	33%	37%	36%	39%	25%
							grade 3 events	4601	4882	3732	3843	3628	27514
								3%	3%	2%	2%	2%	7%
							grade 4 events	4678	4826	3708	3809	3646	24638
								3%	3%	2%	2%	2%	6%
							grade 5 events	1244	1189	1125	1137	1246	4974
								0%	0%	0%	0%	0%	1%
							grade 6 events	21630	21988	20305	20338	25462	119384
								15%	15%	15%	15%	16%	33%
							grade 7 events	17117	17050	18464	17825	20836	29610
								12%	11%	13%	13%	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	164.5067728364281	Alternating exposures requested	N	N
Pointing Dec	0	-52.43985659870508	Primary exposure time	3.2	3.2
Pointing Roll	0.0	52.27547919900918			
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	63495247.843986	63495247.075734			
Observation start date	2000-01-05T21:34:08	2000-01-05T21:34:07			
Observation end time	63502547.894249	63502547.125999			
Observation end date	2000-01-05T23:35:48	2000-01-05T23:35:47			
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	3.4225171201304

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.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.