

V&V Reference Report

L2 ASCDS Version : 8.3.2.1

Observation 62379 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Sep 28 2010

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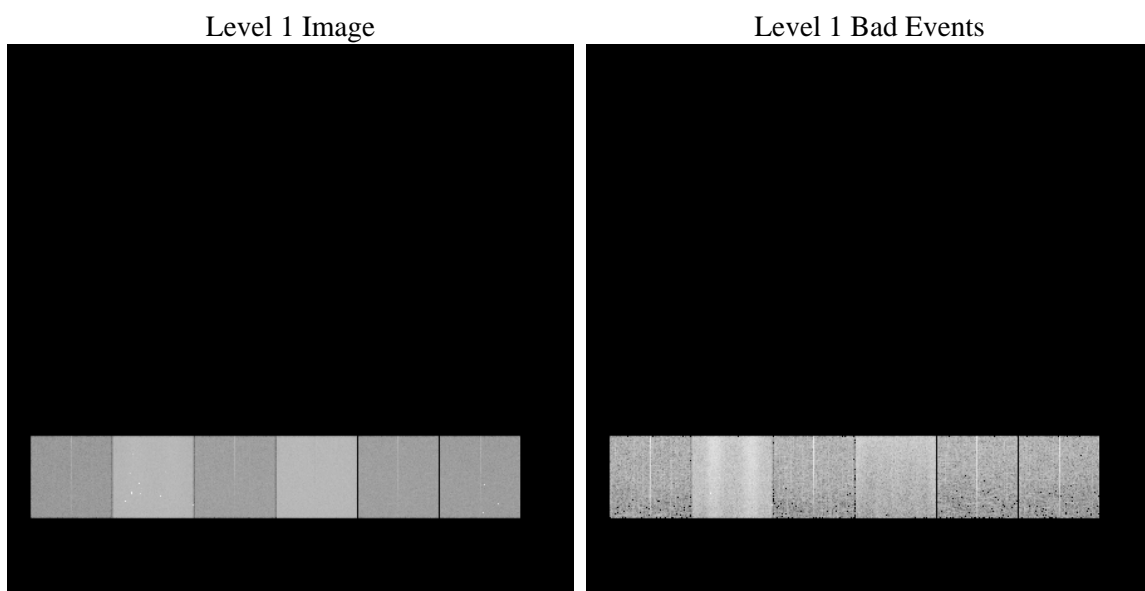
1 Front

seq_num	 	Sequence number
obs_id	62379	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	16.068387111468	Nominal RA
dec_nom	-72.012444964053	Nominal Dec
roll_nom	11.919881307392	Nominal Roll
revision	4	Processing version of data
ontime	5177.7087152749	Sum of GTIs [s]
livetime	5112.1454498802	Livetime [s]
ontime4	1869.0937513262	Sum of GTIs [s]
ontime5	5530.9759612232	Sum of GTIs [s]
ontime6	2173.8745820597	Sum of GTIs [s]
ontime7	5177.7087152749	Sum of GTIs [s]
ontime8	2128.4179419726	Sum of GTIs [s]
ontime9	2083.0843720287	Sum of GTIs [s]
l2events	1708299	Number of level 2 events

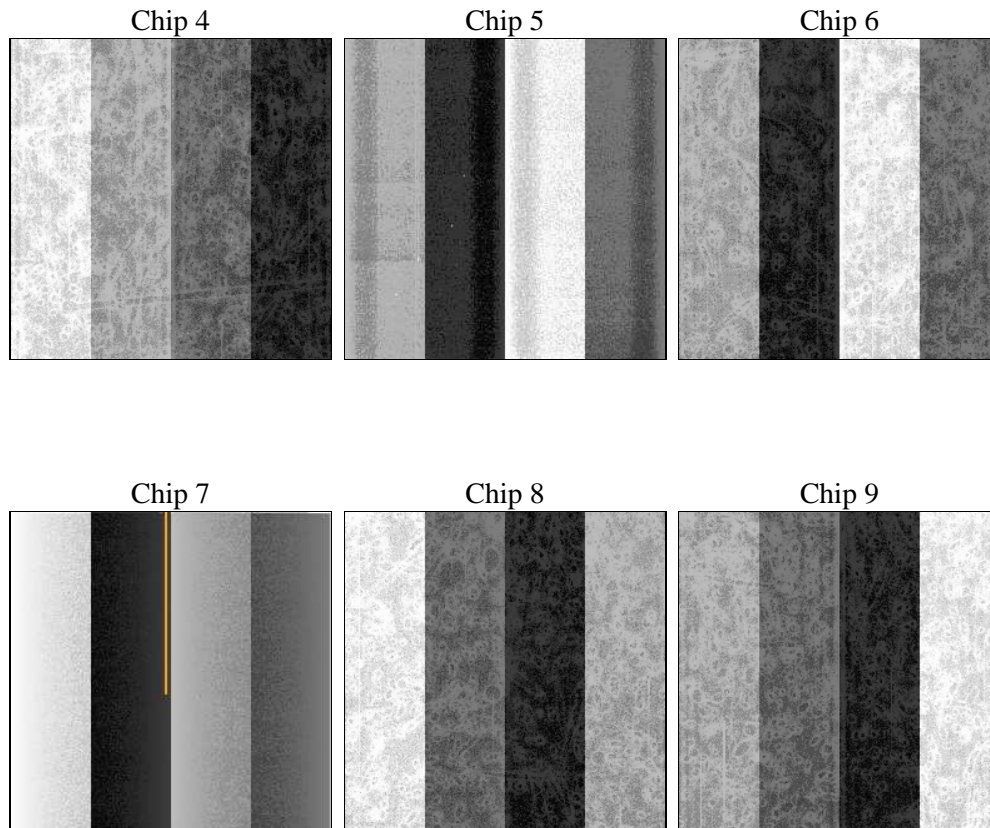
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.3.2.1	ASCDS version number	sched_exp_time	0.0
caldsver	4.3.1	 		
date	2010-09-28T20:05:04	Date and time of file creation	ontime	5177.7087152749
revision	4	Processing version of data	ontime4	1869.0937513262
			ontime5	5530.9759612232
			ontime6	2173.8745820597
			ontime7	5177.7087152749
			ontime8	2128.4179419726
			ontime9	2083.0843720287
			l1events	2014621

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	193139	558580	239331	565792	235871	221908	grade 0 events	38853	55539	57678	92221	70892	59908
rejected events	33034	89455	35857	55064	34287	31851		20%	9%	24%	16%	30%	26%
rejected %	17%	16%	14%	9%	14%	14%	grade 1 events	154	304	238	218	305	238
								0%	0%	0%	0%	0%	0%
							grade 2 events	83841	180611	94188	142995	79812	82688
								43%	32%	39%	25%	33%	37%
							grade 3 events	3953	24640	5859	44292	7362	6062
								2%	4%	2%	7%	3%	2%
							grade 4 events	3875	21515	5838	39658	7430	6142
								2%	3%	2%	7%	3%	2%
							grade 5 events	1739	9357	2037	7881	2118	1957
								0%	1%	0%	1%	0%	0%
							grade 6 events	29583	186820	39911	191562	36088	35257
								15%	33%	16%	33%	15%	15%
							grade 7 events	31141	79794	33582	46965	31864	29656
								16%	14%	14%	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	16.06838711146777	Alternating exposures requested	N	N
Pointing Dec	0	-72.01244496405323	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	11.91988130739186			
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	55045865.086	55045864.270494			
Observation start date	1999-09-30T02:31:05	1999-09-30T02:31:04			
Observation end time	55058905.136	55058904.320963			
Observation end date	1999-09-30T06:08:25	1999-09-30T06:08:24			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1777087152749

A.2 Comments

The focal plane temperature is approximately -110 C 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.