

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62243 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 29 2009

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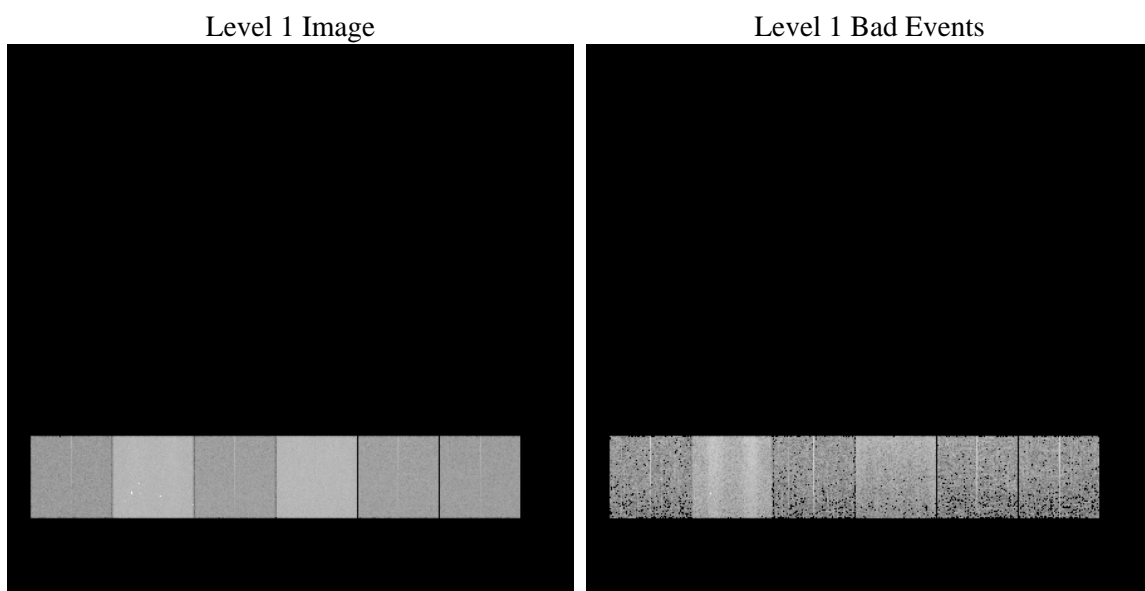
1 Front

seq_num	 	Sequence number
obs_id	62243	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	83.046802868668	Nominal RA
dec_nom	-49.992566877052	Nominal Dec
roll_nom	343.62545627733	Nominal Roll
revision	4	Processing version of data
ontime	2900.72210861	Sum of GTIs [s]
livetime	2863.9914186656	Livetime [s]
ontime4	1105.1933255866	Sum of GTIs [s]
ontime5	3101.6628385261	Sum of GTIs [s]
ontime6	1240.7488242686	Sum of GTIs [s]
ontime7	2900.72210861	Sum of GTIs [s]
ontime8	1256.8719443008	Sum of GTIs [s]
ontime9	1199.1834558398	Sum of GTIs [s]
l2events	902184	Number of level 2 events

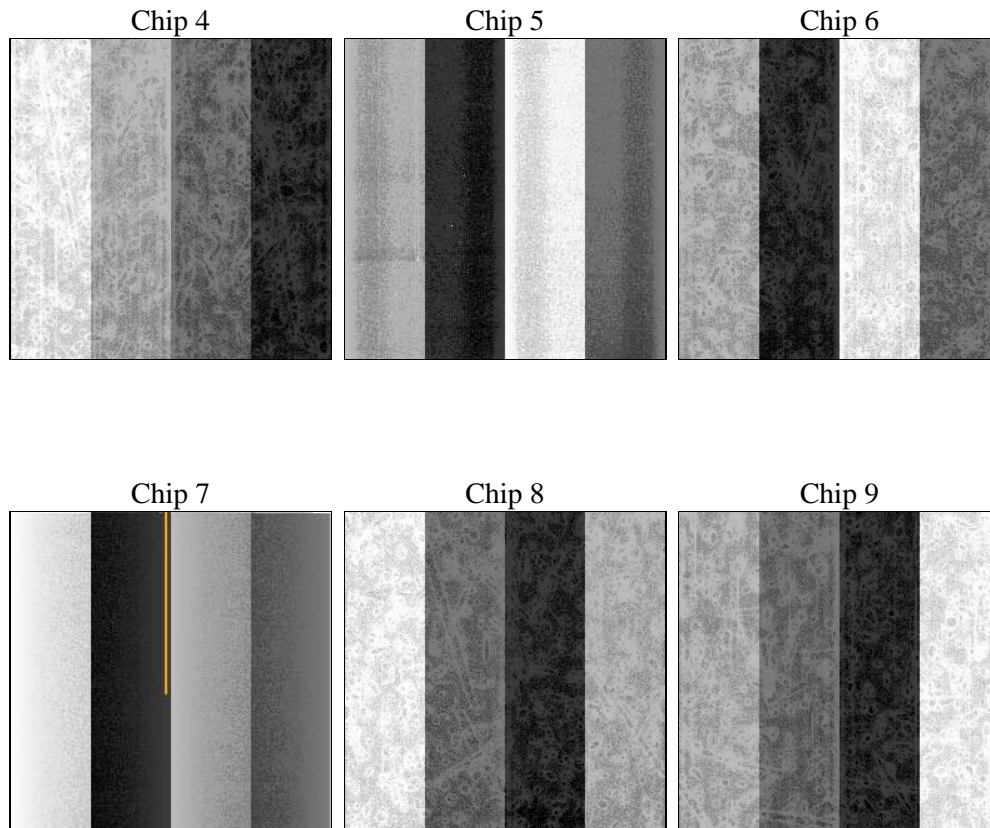
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	105895	288384	125855	293164	129478	118440
rejected events	17518	46206	17682	27934	18284	17022
rejected %	16%	16%	14%	9%	14%	14%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	20135	27568	30121	48928	38426	30486
	19%	9%	23%	16%	29%	25%
grade 1 events	88	240	128	100	146	120
	0%	0%	0%	0%	0%	0%
grade 2 events	47914	94255	50709	74487	44522	45498
	45%	32%	40%	25%	34%	38%
grade 3 events	2030	13042	3004	23125	4089	3109
	1%	4%	2%	7%	3%	2%
grade 4 events	2023	11172	2981	20975	4112	3159
	1%	3%	2%	7%	3%	2%
grade 5 events	913	4915	1032	3980	1153	1039
	0%	1%	0%	1%	0%	0%
grade 6 events	16275	96275	21358	97913	20045	19166
	15%	33%	16%	33%	15%	16%
grade 7 events	16517	40917	16522	23656	16985	15863
	15%	14%	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	83.04680286866794	Alternating exposures requested	N	N
Pointing Dec	0	-49.99256687705236	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	343.6254562773299			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	63097625.73	63097624.961314			
Observation start date	2000-01-01T07:07:06	2000-01-01T07:07:04			
Observation end time	63104925.78	63104925.011579			
Observation end date	2000-01-01T09:08:46	2000-01-01T09:08:45			
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	2.90072210861

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.