

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1304 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Nov 17 2009

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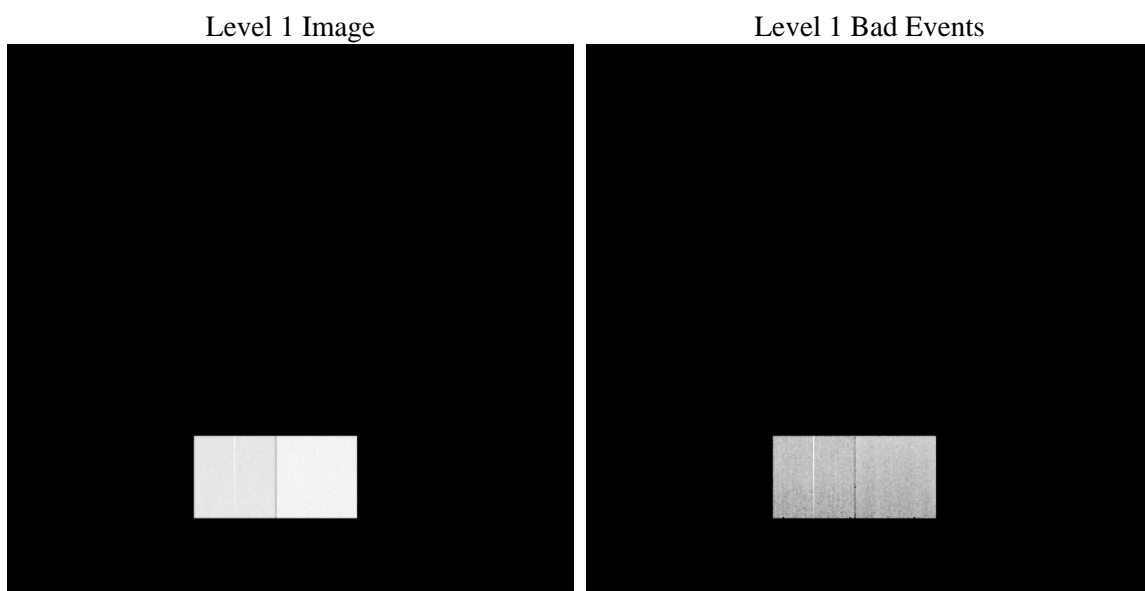
1 Front

seq_num	 	Sequence number
obs_id	1304	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	119.99424743091	Nominal RA
dec_nom	-66.595078442708	Nominal Dec
roll_nom	121.9144353041	Nominal Roll
revision	3	Processing version of data
ontime	8035.2000074834	Sum of GTIs [s]
livetime	7933.453466772	Livetime [s]
ontime4	4442.2054356039	Sum of GTIs [s]
ontime5	8035.2000074834	Sum of GTIs [s]
ontime6	5181.2691456601	Sum of GTIs [s]
ontime7	8035.2000074834	Sum of GTIs [s]
ontime8	5115.1035032943	Sum of GTIs [s]
ontime9	5035.3848268837	Sum of GTIs [s]
l2events	1276871	Number of level 2 events

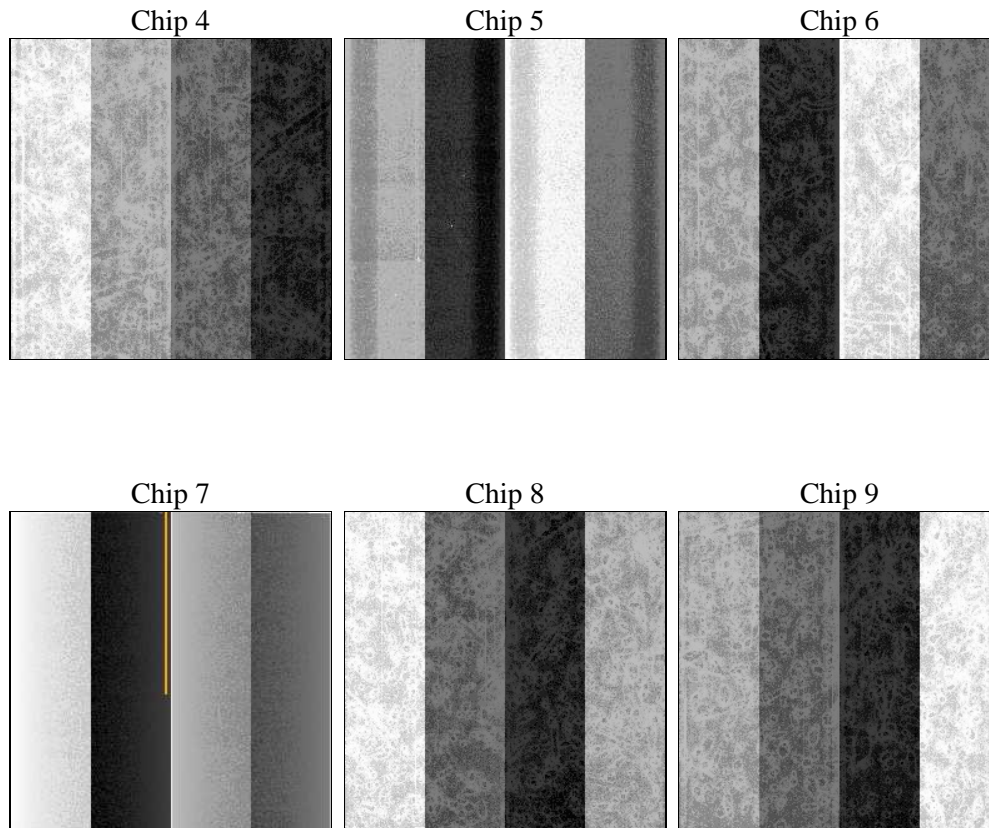
2 OBI

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		
caldbver	4.1.4	 		
date	2009-11-17T11:06:52	Date and time of file creation		
revision	4	Processing version of data		
			sched_exp_time	0
				Scheduled observation exposure time
			ontime	8035.2000074834
				Sum of GTIs [s]
			ontime4	4442.2054356039
				Sum of GTIs [s]
			ontime5	8035.2000074834
				Sum of GTIs [s]
			ontime6	5181.2691456601
				Sum of GTIs [s]
			ontime7	8035.2000074834
				Sum of GTIs [s]
			ontime8	5115.1035032943
				Sum of GTIs [s]
			ontime9	5035.3848268837
				Sum of GTIs [s]
			l1events	1461148
				Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	571504	889644	0	0
rejected events	0	0	84661	86408	0	0
rejected %	0%	0%	14%	9%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	135482	145674	0	0
	0%	0%	23%	16%	0%	0%
grade 1 events	0	0	544	382	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	227267	224632	0	0
	0%	0%	39%	25%	0%	0%
grade 3 events	0	0	14174	69660	0	0
	0%	0%	2%	7%	0%	0%
grade 4 events	0	0	13955	63065	0	0
	0%	0%	2%	7%	0%	0%
grade 5 events	0	0	4906	12659	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	95965	300205	0	0
	0%	0%	16%	33%	0%	0%
grade 7 events	0	0	79211	73367	0	0
	0%	0%	13%	8%	0%	0%

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	119.9942474309076	Alternating exposures requested	N	N
Pointing Dec	0	-66.59507844270775	Primary exposure time	0	3.2
Pointing Roll	121.906727	121.9144353040982			
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	54131437.901	54131437.132269			
Observation start date	1999-09-19T12:30:38	1999-09-19T12:30:37			
Observation end time	54144828.501	54144827.732749			
Observation end date	1999-09-19T16:13:49	1999-09-19T16:13:47			
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)	2009.11.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9

A.2 Comments

A spatial exclusion window was specified for this observation.

Although

6 CCD chips were active, only events from chips 6 and 7 were telemetered.

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Due to telemetry saturation, the effective exposure time is substantially less than the duration and may vary from chip-to-chip. This is expected for bright sources.

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Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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.