

V&V Reference Report

L2 ASCDS Version : 8.3.3.1

Observation 62418 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 6 2010

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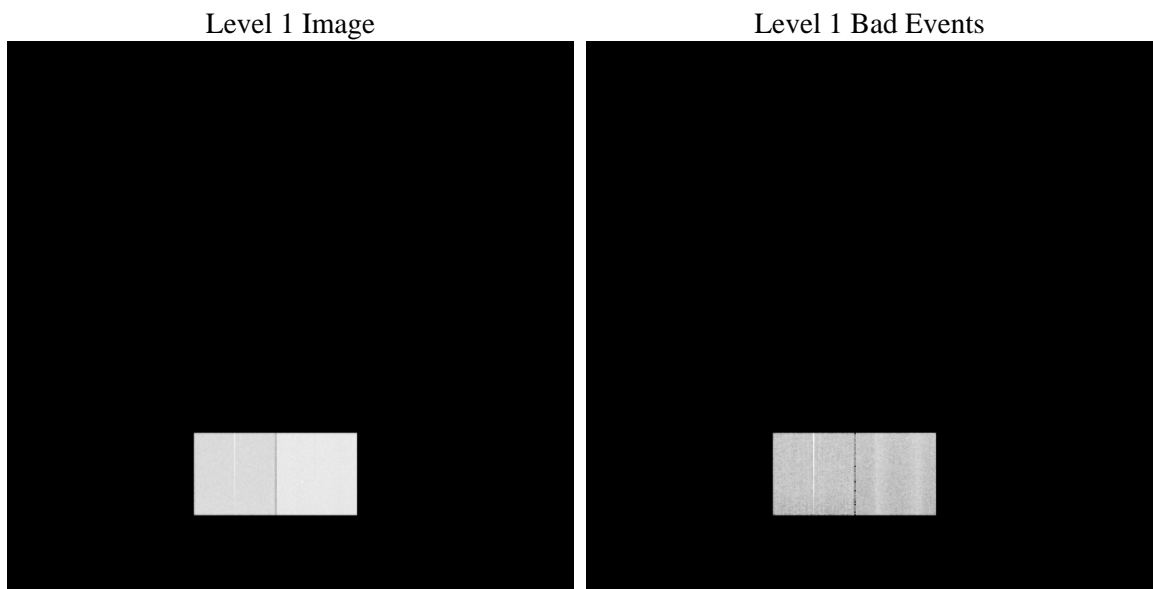
1 Front

seq_num	 	Sequence number
obs_id	62418	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	0.0097642493214749	Nominal RA
dec_nom	-60.757939153372	Nominal Dec
roll_nom	126.74820003888	Nominal Roll
revision	3	Processing version of data
ontime	7664.0000071377	Sum of GTIs [s]
livetime	7566.9538243405	Livetime [s]
ontime4	4325.8658987358	Sum of GTIs [s]
ontime5	7664.0000071377	Sum of GTIs [s]
ontime6	4954.5617371351	Sum of GTIs [s]
ontime7	7664.0000071377	Sum of GTIs [s]
ontime8	4922.2458306029	Sum of GTIs [s]
ontime9	4863.8144026473	Sum of GTIs [s]
l2events	1225423	Number of level 2 events

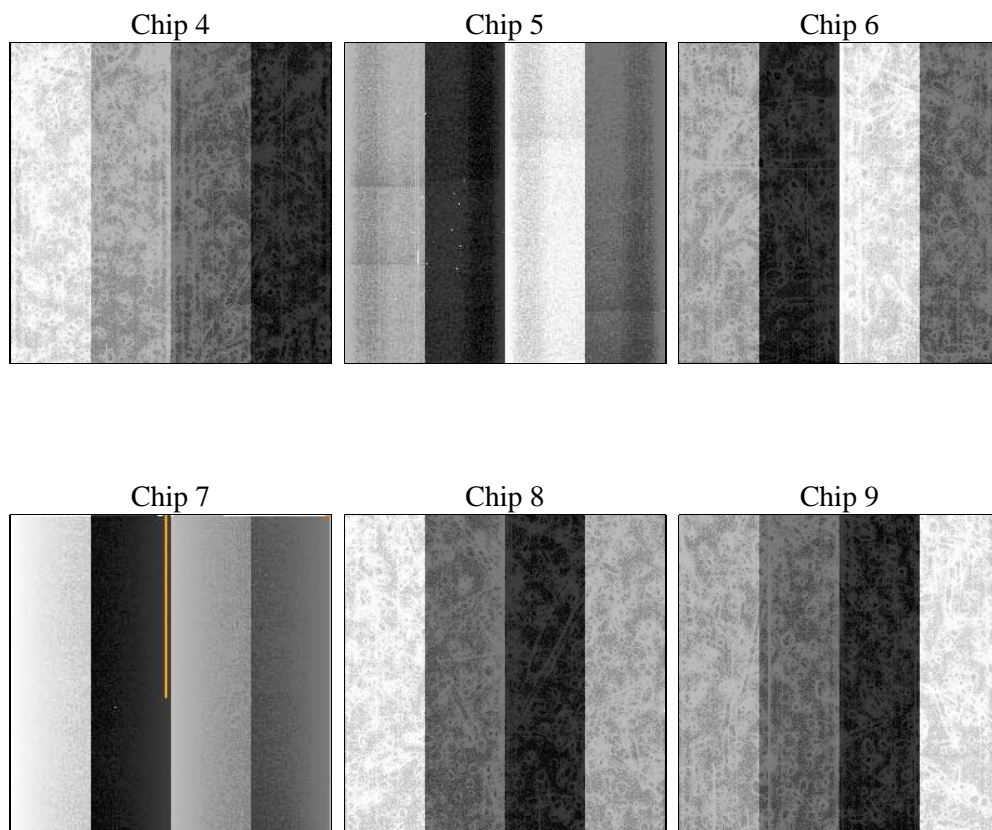
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.3.3.1	ASCDS version number	sched_exp_time	0.0
caldbver	4.4.0	 		
date	2010-12-06T21:50:20	Date and time of file creation	ontime	7664.0000071377
revision	3	Processing version of data	ontime4	4325.8658987358
			ontime5	7664.0000071377
			ontime6	4954.5617371351
			ontime7	7664.0000071377
			ontime8	4922.2458306029
			ontime9	4863.8144026473
			l1events	1462954

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	562403	900551	0	0
rejected events	0	0	113843	110861	0	0
rejected %	0%	0%	20%	12%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	69012	165812	0	0
	0%	0%	12%	18%	0%	0%
grade 1 events	0	0	288	458	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	288378	166186	0	0
	0%	0%	51%	18%	0%	0%
grade 3 events	0	0	7184	110139	0	0
	0%	0%	1%	12%	0%	0%
grade 4 events	0	0	7328	86327	0	0
	0%	0%	1%	9%	0%	0%
grade 5 events	0	0	4113	11319	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	98410	300740	0	0
	0%	0%	17%	33%	0%	0%
grade 7 events	0	0	87690	59570	0	0
	0%	0%	15%	6%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	0	0.009764249321474853
Pointing Dec	0	-60.75793915337169
Pointing Roll	0.0	126.748200038881
SIM focus pos (mm)	-1.429586	-1.370509375638239
SIM defocus (mm)	0.1037507710433287	0.1628272637660579
SIM translation stage pos (mm)	250.455976	250.4459185577885
SIM translation stage offset (mm)	0	0.01005983576618519
Observation start time	53665003.690533	53665002.665529
Observation start date	1999-09-14T02:56:44	1999-09-14T02:56:42
Observation end time	53715845.742357	53674646.890876
Observation end date	1999-09-14T17:04:06	1999-09-14T05:37:26
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	3.2	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.6640000071377

A.2 Comments

The focal plane temperature is approximately -100 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.