

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62315 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Jan 11 2010

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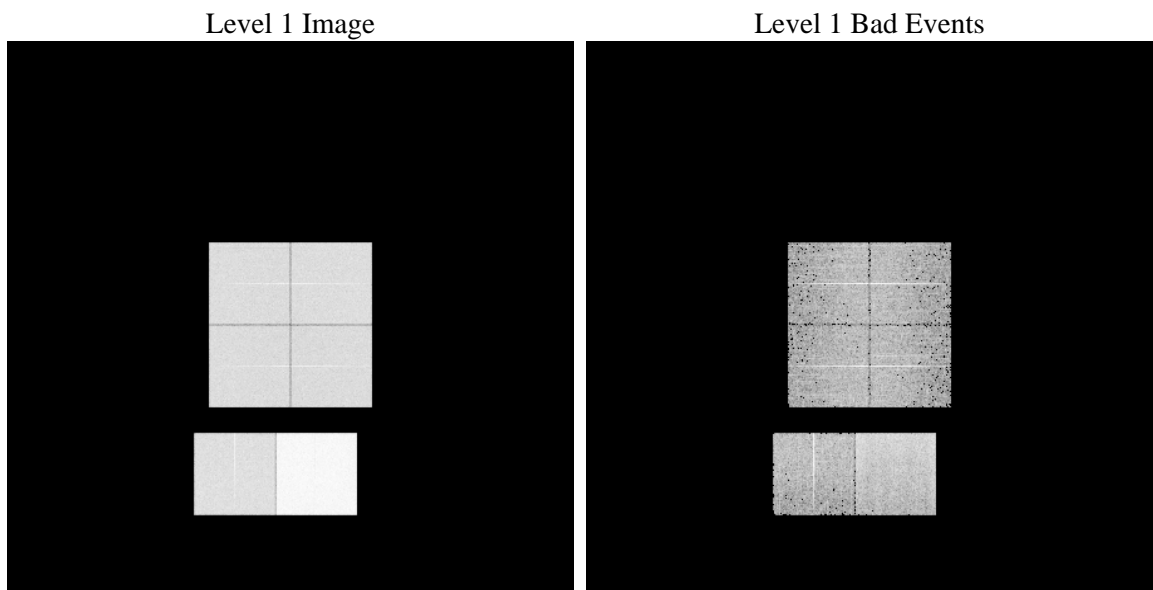
1 Front

seq_num	 	Sequence number
obs_id	62315	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	270.55406416211	Nominal RA
dec_nom	84.994160086807	Nominal Dec
roll_nom	316.54283190931	Nominal Roll
revision	4	Processing version of data
ontime	4901.1126341671	Sum of GTIs [s]
livetime	4839.0517948975	Livetime [s]
ontime0	1928.1597226337	Sum of GTIs [s]
ontime1	1977.7194144055	Sum of GTIs [s]
ontime2	1873.1441125199	Sum of GTIs [s]
ontime3	1840.5696123242	Sum of GTIs [s]
ontime6	2074.1296429038	Sum of GTIs [s]
ontime7	4901.1126341671	Sum of GTIs [s]
l2events	1316084	Number of level 2 events

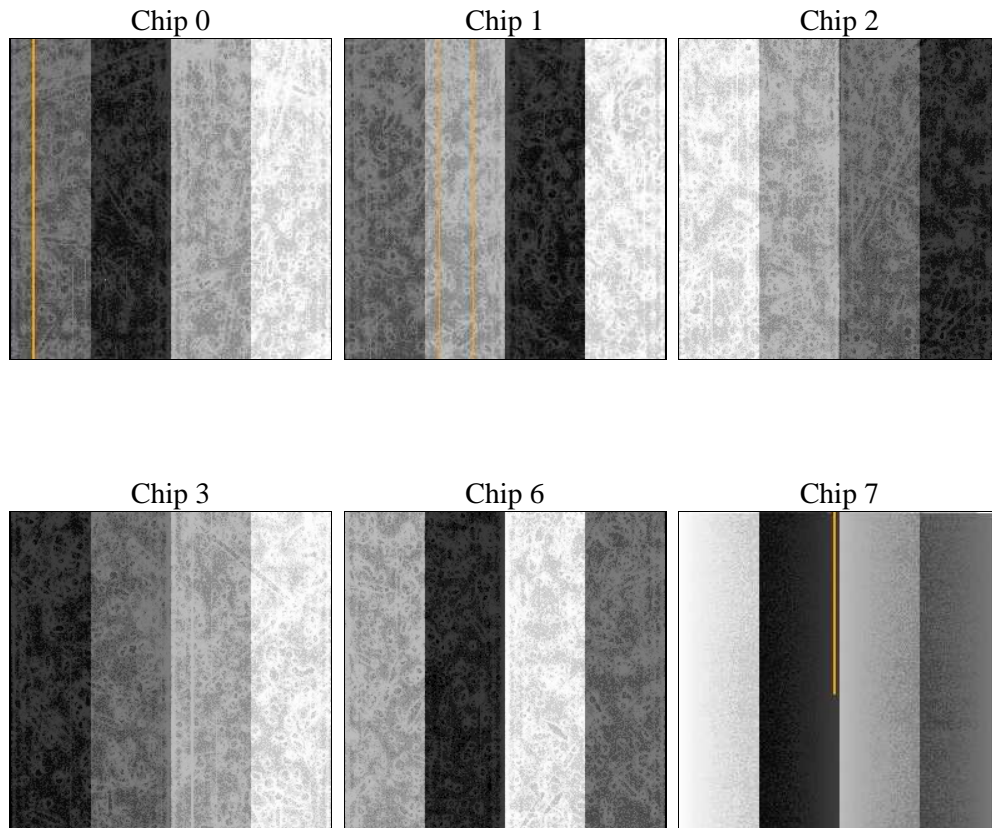
2 OBI

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	sched_exp_time	0.0
caldsver	4.1.4	 		
date	2009-11-21T14:26:00	Date and time of file creation	ontime	4901.1126341671
revision	3	Processing version of data	ontime0	1928.1597226337
			ontime1	1977.7194144055
			ontime2	1873.1441125199
			ontime3	1840.5696123242
			ontime6	2074.1296429038
			ontime7	4901.1126341671
			l1events	1517495

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	196362	202733	193687	190148	219909	514656	grade 0 events	62901	65971	53592	54557	53308	85448
rejected events	26772	26669	27381	26667	31365	49137		32%	32%	27%	28%	24%	16%
rejected %	13%	13%	14%	14%	14%	9%	grade 1 events	275	259	232	231	205	181
								0%	0%	0%	0%	0%	0%
							grade 2 events	63518	65283	71977	68721	87060	130246
								32%	32%	37%	36%	39%	25%
							grade 3 events	6876	7177	5528	5687	5566	40473
								3%	3%	2%	2%	2%	7%
							grade 4 events	6477	7066	5627	5750	5633	36544
								3%	3%	2%	3%	2%	7%
							grade 5 events	1667	1696	1591	1682	1843	7264
								0%	0%	0%	0%	0%	1%
							grade 6 events	29818	30813	29582	28766	36977	173116
								15%	15%	15%	15%	16%	33%
							grade 7 events	24830	24468	25558	24754	29317	41384
								12%	12%	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	270.5540641621101	Alternating exposures requested	N	N
Pointing Dec	0	84.9941600868068	Primary exposure time	3.2	3.2
Pointing Roll	0.0	316.5428319093122			
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	58757966.222771	58757965.454303			
Observation start date	1999-11-12T01:39:26	1999-11-12T01:39:25			
Observation end time	58767765.223125	58767764.454657			
Observation end date	1999-11-12T04:22:45	1999-11-12T04:22:44			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9011126341671

A.2 Comments

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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.