

V&V Reference Report

L2 ASCDS Version : 8.3.2

Observation 62235 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Aug 12 2010

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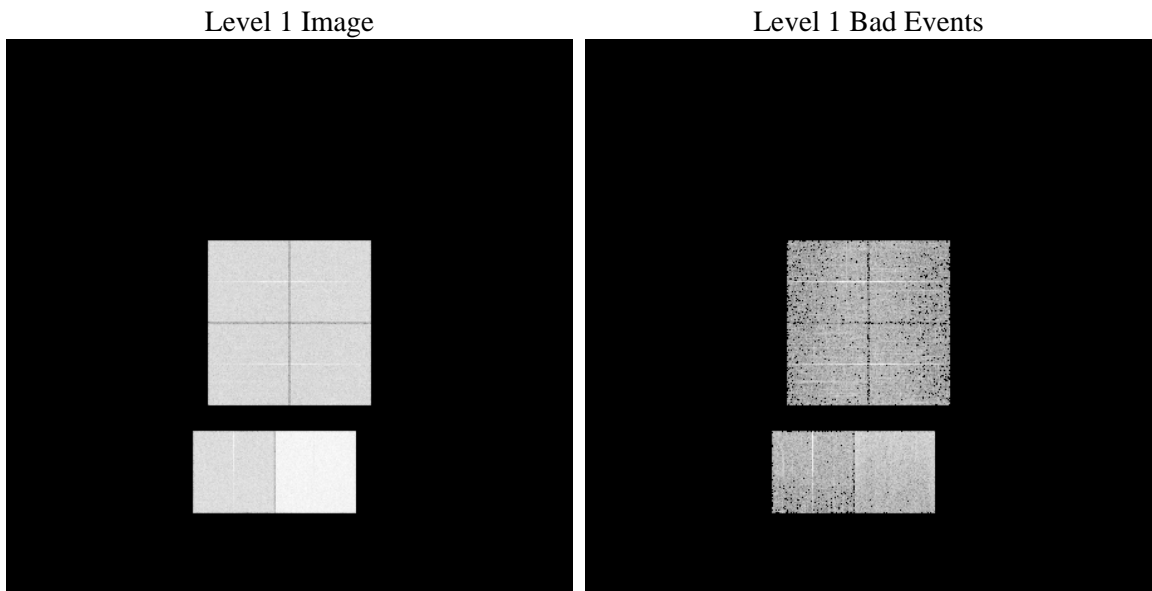
1 Front

seq_num	 	Sequence number
obs_id	62235	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	154.55600597425	Nominal RA
dec_nom	41.463695355731	Nominal Dec
roll_nom	101.83720055199	Nominal Roll
revision	4	Processing version of data
ontime	3523.446484223	Sum of GTIs [s]
livetime	3478.830483275	Livetime [s]
ontime0	1396.8868665919	Sum of GTIs [s]
ontime1	1435.7794962227	Sum of GTIs [s]
ontime2	1322.343046166	Sum of GTIs [s]
ontime3	1352.0099670216	Sum of GTIs [s]
ontime6	1526.8208276406	Sum of GTIs [s]
ontime7	3523.446484223	Sum of GTIs [s]
l2events	909879	Number of level 2 events

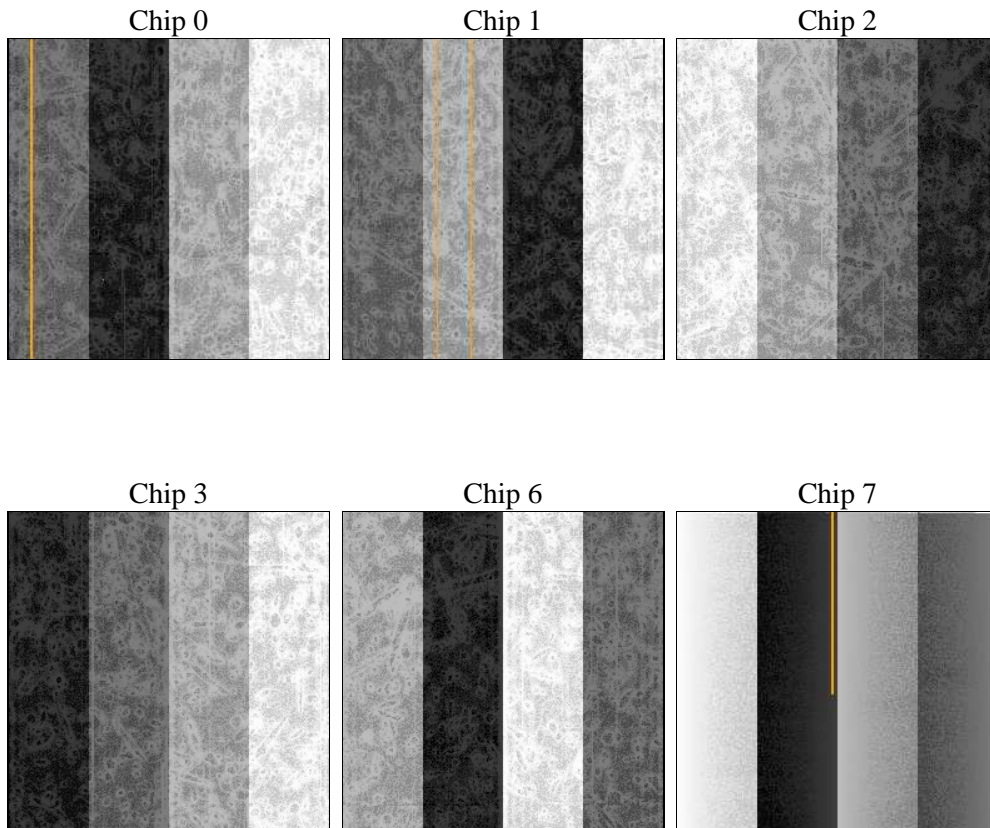
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	137129	141582	132427	135331	155994	357727
rejected events	19535	19564	20886	20732	23210	37185
rejected %	14%	13%	15%	15%	14%	10%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	43023	44713	35379	38338	37189	60901
	31%	31%	26%	28%	23%	17%
grade 1 events	166	163	163	161	146	134
	0%	0%	0%	0%	0%	0%
grade 2 events	45628	47336	50007	49549	62986	90604
	33%	33%	37%	36%	40%	25%
grade 3 events	4625	4778	3569	3936	3848	28567
	3%	3%	2%	2%	2%	7%
grade 4 events	4653	4750	3634	3981	3870	25553
	3%	3%	2%	2%	2%	7%
grade 5 events	1148	1216	1105	1108	1224	4966
	0%	0%	0%	0%	0%	1%
grade 6 events	20989	21857	20537	20390	26589	119023
	15%	15%	15%	15%	17%	33%
grade 7 events	16897	16769	18033	17868	20142	27979
	12%	11%	13%	13%	12%	7%

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	154.5560059742485	Alternating exposures requested	N	N
Pointing Dec	0	41.46369535573149	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	101.837200551988			
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	63724714.603	63724713.834061			
Observation start date	2000-01-08T13:18:35	2000-01-08T13:18:33			
Observation end time	63732014.653	63732013.884326			
Observation end date	2000-01-08T15:20:15	2000-01-08T15:20:13			
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	3.523446484223

A.2 Comments

A CCD bias map was incomplete because of data gaps in telemetry. Bias map for chip 6 was reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps.

The region that was modified includes the chip coordinates (1,85),(1024,85),(1024,94),(1,94)
===

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.