

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62343 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 20 2009

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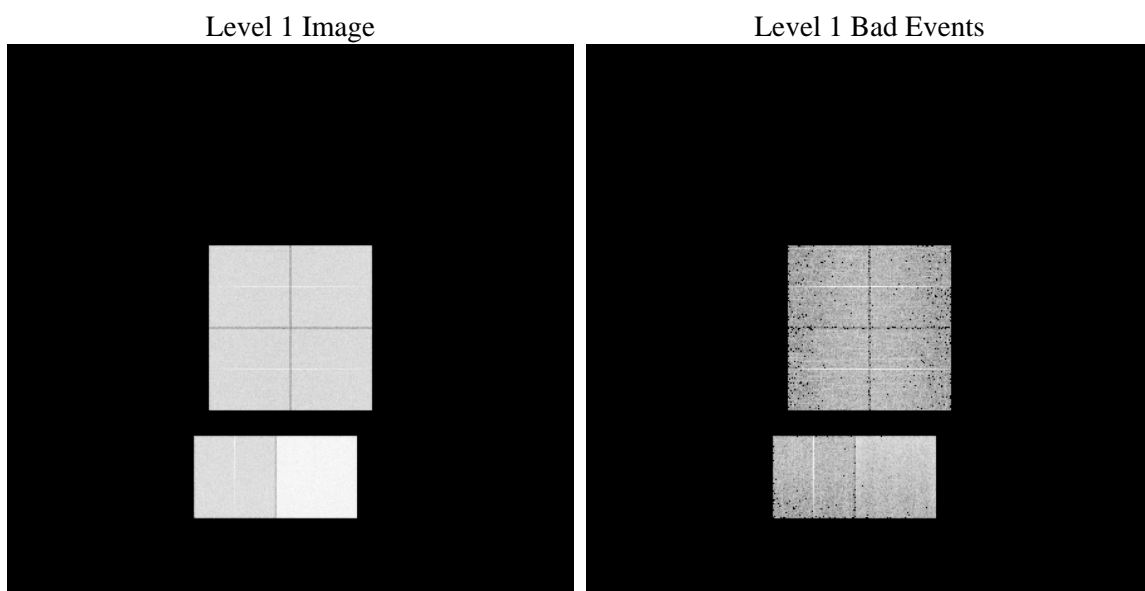
1 Front

seq_num	 	Sequence number
obs_id	62343	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	130.78419081561	Nominal RA
dec_nom	36.404634985162	Nominal Dec
roll_nom	72.3530166075	Nominal Roll
revision	4	Processing version of data
ontime	4839.5364622176	Sum of GTIs [s]
livetime	4778.255337514	Livetime [s]
ontime0	1920.6244824082	Sum of GTIs [s]
ontime1	1949.8349124044	Sum of GTIs [s]
ontime2	1826.7163723037	Sum of GTIs [s]
ontime3	1854.5635344237	Sum of GTIs [s]
ontime6	2066.594263047	Sum of GTIs [s]
ontime7	4839.5364622176	Sum of GTIs [s]
l2events	1318223	Number of level 2 events

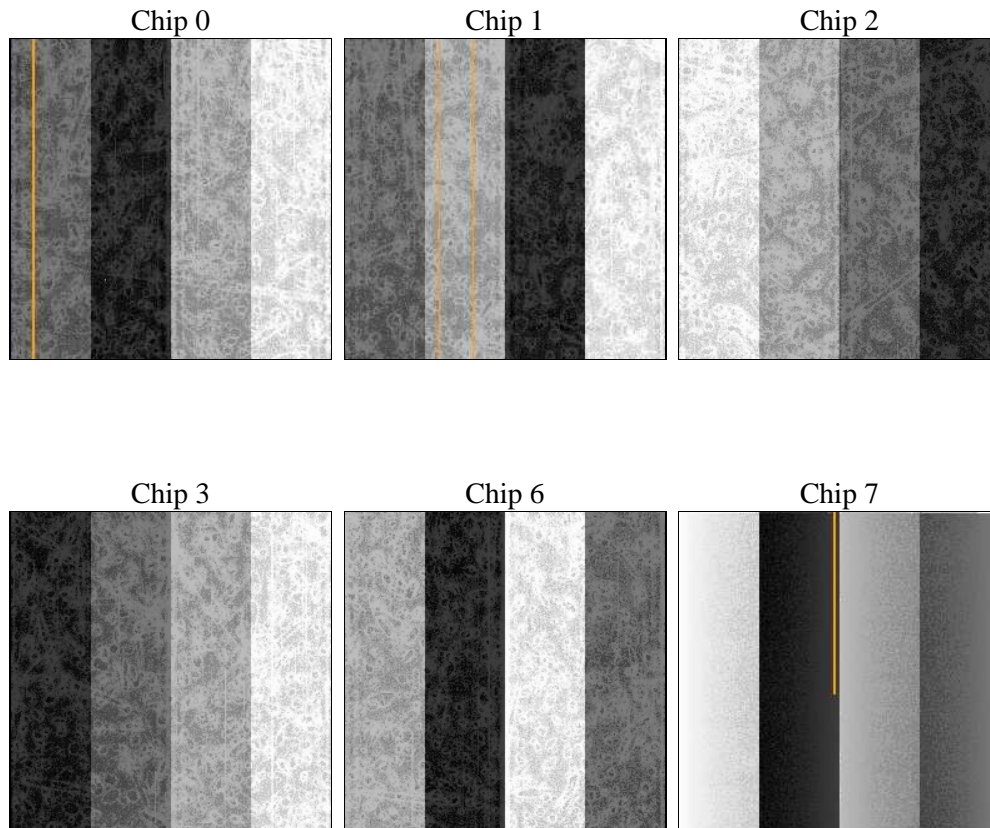
2 OBI

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	2009-11-20T18:57:37	Date and time of file creation	ontime	4839.5364622176
revision	3	Processing version of data	ontime0	1920.6244824082
			ontime1	1949.8349124044
			ontime2	1826.7163723037
			ontime3	1854.5635344237
			ontime6	2066.594263047
			ontime7	4839.5364622176
			l1events	1519013

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	196847	200892	191093	194692	221195	514294	grade 0 events	63735	63923	51574	55160	53440	85043
rejected events	25847	25827	28054	27834	31238	48053		32%	31%	26%	28%	24%	16%
rejected %	13%	12%	14%	14%	14%	9%	grade 1 events	285	288	205	241	219	194
								0%	0%	0%	0%	0%	0%
							grade 2 events	63754	66466	70990	70888	88145	131340
								32%	33%	37%	36%	39%	25%
							grade 3 events	6803	6914	5321	5751	5537	40452
								3%	3%	2%	2%	2%	7%
							grade 4 events	6974	6897	5317	5829	5454	36185
								3%	3%	2%	2%	2%	7%
							grade 5 events	1641	1717	1689	1674	1718	7203
								0%	0%	0%	0%	0%	1%
							grade 6 events	29734	30865	29837	29230	37381	173221
								15%	15%	15%	15%	16%	33%
							grade 7 events	23921	23822	26160	25919	29301	40656
								12%	11%	13%	13%	13%	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	130.7841908156139	Alternating exposures requested	N	N
Pointing Dec	0	36.4046349851622	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	72.35301660749984			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	56927705.657	56927704.888252			
Observation start date	1999-10-21T21:15:06	1999-10-21T21:15:04			
Observation end time	56937504.657	56937503.888605			
Observation end date	1999-10-21T23:58:25	1999-10-21T23:58:23			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8395364622176

A.2 Comments

The focal plane temperature is approximately -110C during this observation.

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 chip (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.