

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62245 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 29 2009

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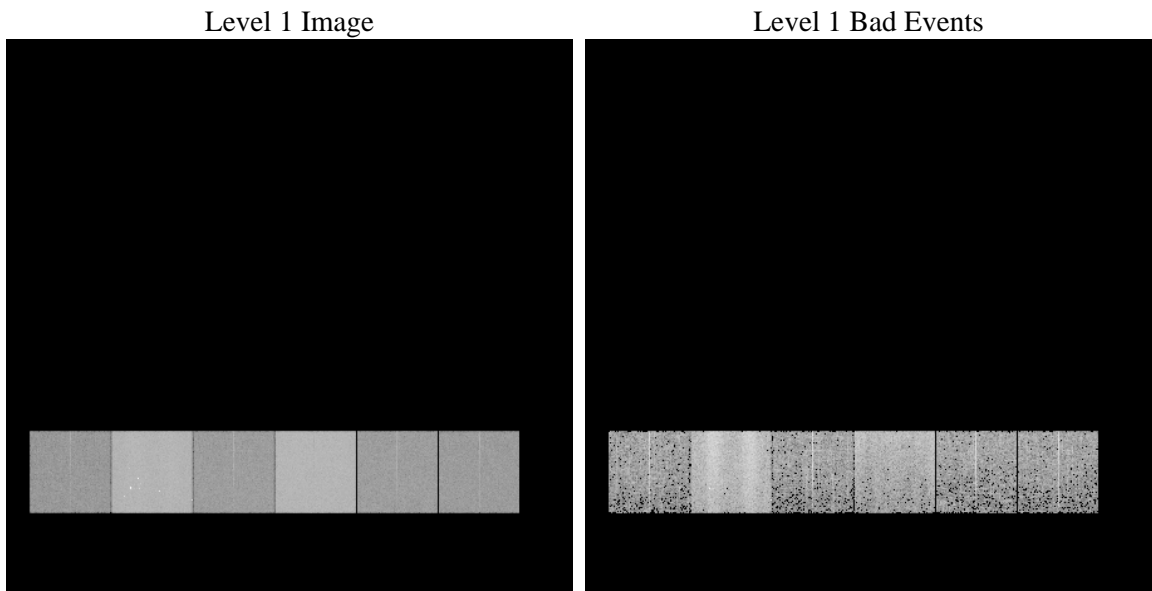
1 Front

seq_num	 	Sequence number
obs_id	62245	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtycle	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	83.044484207683	Nominal RA
dec_nom	-49.992317833209	Nominal Dec
roll_nom	343.62239896802	Nominal Roll
revision	4	Processing version of data
ontime	2893.1928443536	Sum of GTIs [s]
livetime	2856.5574944868	Livetime [s]
ontime4	1104.2693213001	Sum of GTIs [s]
ontime5	3079.3117206171	Sum of GTIs [s]
ontime6	1237.110751994	Sum of GTIs [s]
ontime7	2893.1928443536	Sum of GTIs [s]
ontime8	1237.1928319931	Sum of GTIs [s]
ontime9	1207.8183617145	Sum of GTIs [s]
l2events	901738	Number of level 2 events

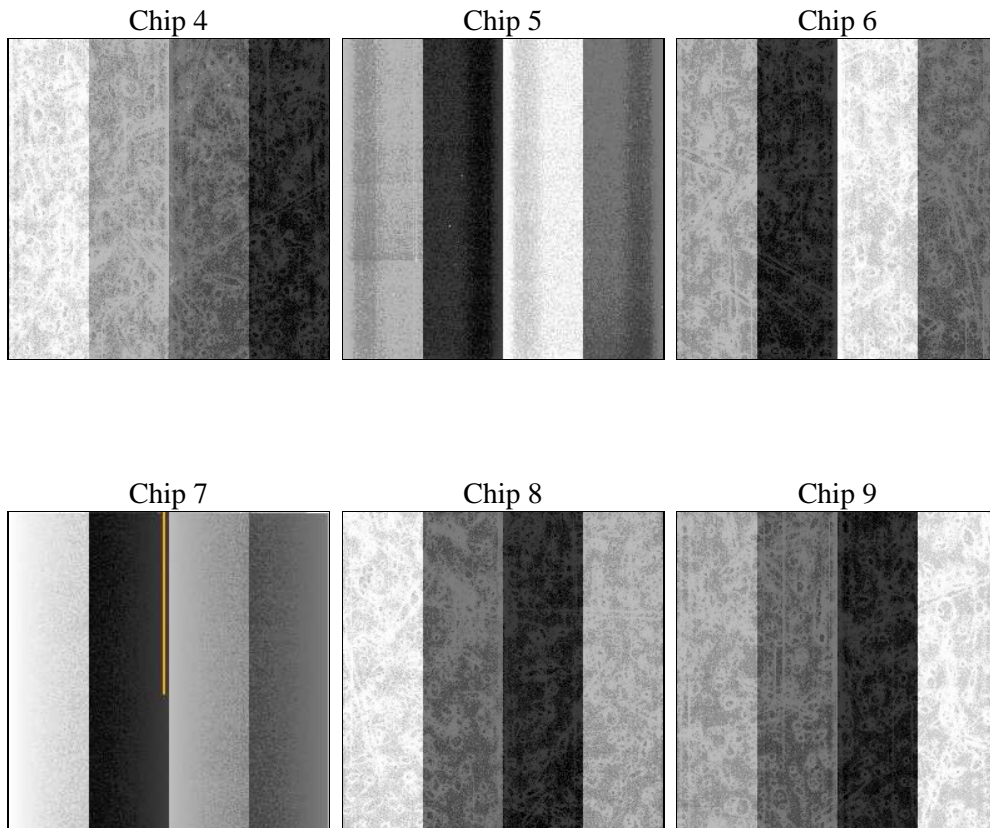
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	2893.1928443536	Sum of GTIs [s]
caldbver	4.1.4	 	ontime4	1104.2693213001	Sum of GTIs [s]
date	2009-11-29T20:34:16	Date and time of file creation	ontime5	3079.3117206171	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1237.110751994	Sum of GTIs [s]
			ontime7	2893.1928443536	Sum of GTIs [s]
			ontime8	1237.1928319931	Sum of GTIs [s]
			ontime9	1207.8183617145	Sum of GTIs [s]
			l1events	1062572	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	106582	287846	126623	293936	128043	119542	grade 0 events	20559	27373	30421	49637	38962	31019
rejected events	17274	46788	17841	27751	17956	17102		19%	9%	24%	16%	30%	25%
rejected %	16%	16%	14%	9%	14%	14%	grade 1 events	79	262	129	113	152	126
								0%	0%	0%	0%	0%	0%
							grade 2 events	48118	93666	50814	74444	43429	45580
								45%	32%	40%	25%	33%	38%
							grade 3 events	2051	12556	3150	23035	4076	3316
								1%	4%	2%	7%	3%	2%
							grade 4 events	2144	10771	3220	20934	4034	3298
								2%	3%	2%	7%	3%	2%
							grade 5 events	873	4689	1024	4132	1116	1051
								0%	1%	0%	1%	0%	0%
							grade 6 events	16436	96938	21177	98135	19586	19227
								15%	33%	16%	33%	15%	16%
							grade 7 events	16322	41591	16688	23506	16688	15925
								15%	14%	13%	7%	13%	13%

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	83.04448420768257	Alternating exposures requested	N	N
Pointing Dec	0	-49.99231783320905	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	343.6223989680188			
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	63047107.578	63047106.809484			
Observation start date	1999-12-31T17:05:08	1999-12-31T17:05:06			
Observation end time	63090327.73	63090326.96105			
Observation end date	2000-01-01T05:05:28	2000-01-01T05:05:26			
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)	2010.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8931928443536

A.2 Comments

The focal plane temperature is approximately -110C 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.