

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62260 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 26 2009

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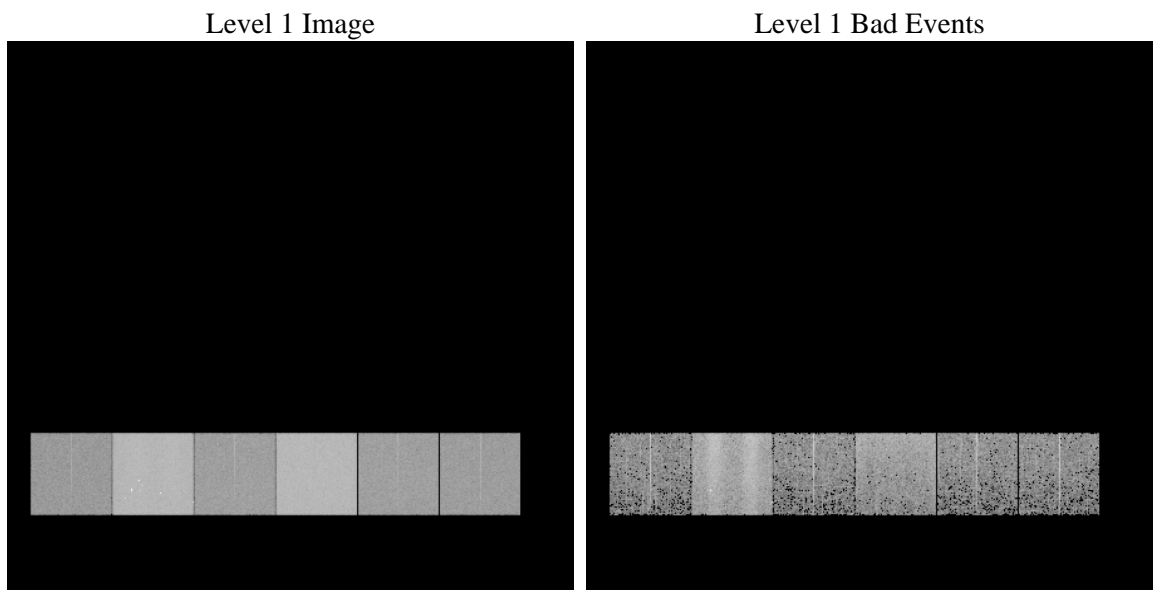
1 Front

seq_num	 	Sequence number
obs_id	62260	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	108.048508736	Nominal RA
dec_nom	-65.177277853512	Nominal Dec
roll_nom	17.90033627961	Nominal Roll
revision	4	Processing version of data
ontime	2903.9634368494	Sum of GTIs [s]
livetime	2867.1917032552	Livetime [s]
ontime4	1085.7470355406	Sum of GTIs [s]
ontime5	3098.4223261699	Sum of GTIs [s]
ontime6	1237.4647752121	Sum of GTIs [s]
ontime7	2903.9634368494	Sum of GTIs [s]
ontime8	1228.3527160361	Sum of GTIs [s]
ontime9	1179.2491751015	Sum of GTIs [s]
l2events	905839	Number of level 2 events

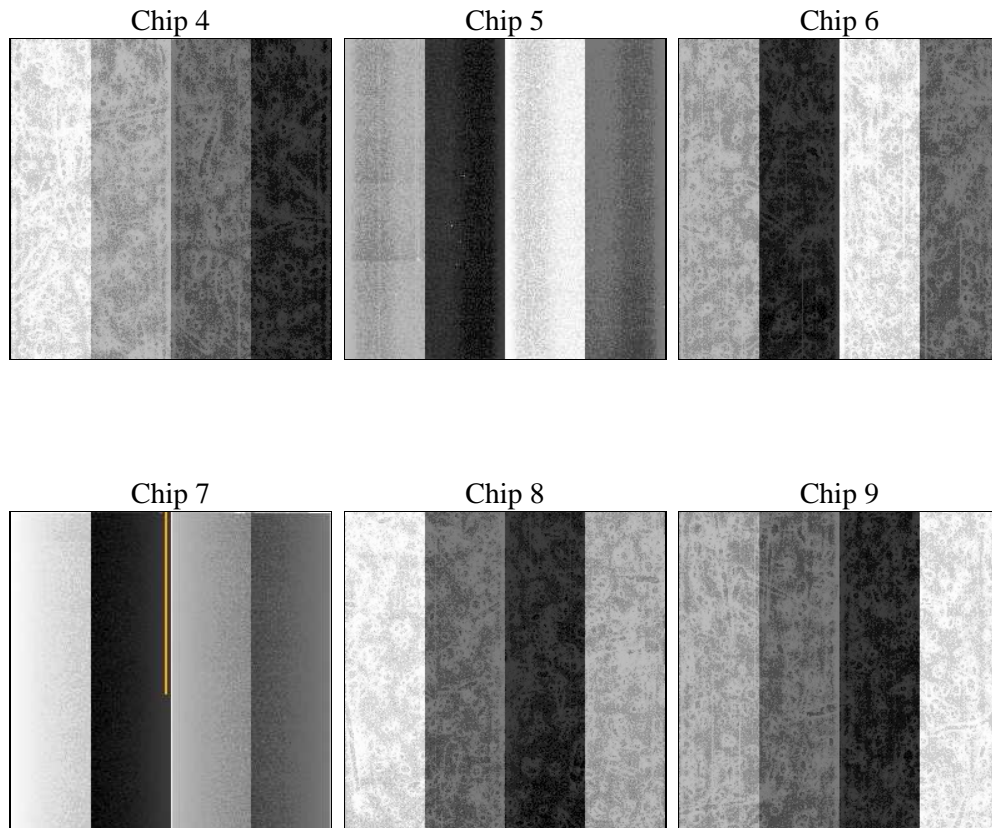
2 OBI

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	2903.9634368494	Sum of GTIs [s]
caldsver	4.1.4	 	ontime4	1085.7470355406	Sum of GTIs [s]
date	2009-11-26T09:55:04	Date and time of file creation	ontime5	3098.4223261699	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1237.4647752121	Sum of GTIs [s]
			ontime7	2903.9634368494	Sum of GTIs [s]
			ontime8	1228.3527160361	Sum of GTIs [s]
			ontime9	1179.2491751015	Sum of GTIs [s]
			l1events	1064414	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	104958	290865	126836	296198	128202	117355	grade 0 events	19825	27297	30317	48531	38924	30657
rejected events	17062	47247	17962	28883	17907	16958		18%	9%	23%	16%	30%	26%
rejected %	16%	16%	14%	9%	13%	14%	grade 1 events	70	111	110	126	153	134
								0%	0%	0%	0%	0%	0%
							grade 2 events	47836	94047	51023	74635	43153	44319
								45%	32%	40%	25%	33%	37%
							grade 3 events	2040	12707	3105	23344	4048	3245
								1%	4%	2%	7%	3%	2%
							grade 4 events	1999	10859	3069	20872	4308	3176
								1%	3%	2%	7%	3%	2%
							grade 5 events	830	4833	1046	4283	1040	1013
								0%	1%	0%	1%	0%	0%
							grade 6 events	16196	98708	21360	99933	19862	19000
								15%	33%	16%	33%	15%	16%
							grade 7 events	16162	42303	16806	24474	16714	15811
								15%	14%	13%	8%	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	108.048508735995	Alternating exposures requested	N	N
Pointing Dec	0	-65.17727785351185	Primary exposure time	3.2	3.2
Pointing Roll	0.0	17.90033627960999			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	62171999.446249	62171998.677776			
Observation start date	1999-12-21T13:59:59	1999-12-21T13:59:58			
Observation end time	62179299.496514	62179298.72804			
Observation end date	1999-12-21T16:01:39	1999-12-21T16:01:38			
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)	2010.08.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.63

A.2 Comments

Charge time for this observation remains at original value of 1.63 ksec, although with the current processing the charge time would have been 2.90 ksec.

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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 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.