

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62344 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 20 2009

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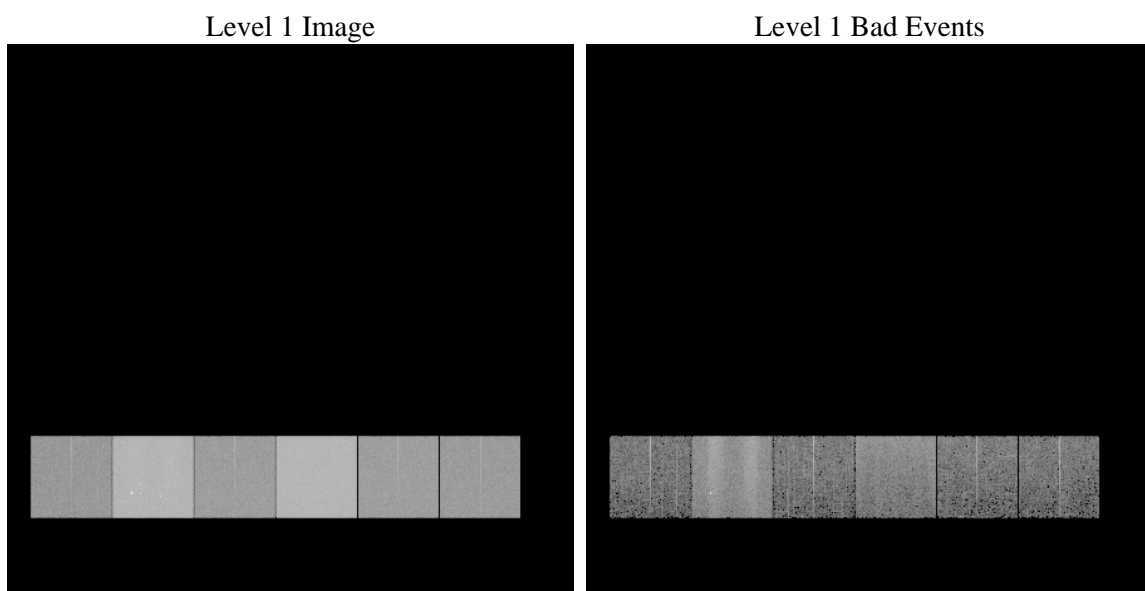
1 Front

seq_num	 	Sequence number
obs_id	62344	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	130.78978626553	Nominal RA
dec_nom	36.398095419416	Nominal Dec
roll_nom	72.34360532951	Nominal Roll
revision	4	Processing version of data
ontime	3942.5304878801	Sum of GTIs [s]
livetime	3892.6077929357	Livetime [s]
ontime4	1470.7940711901	Sum of GTIs [s]
ontime5	4232.0657548532	Sum of GTIs [s]
ontime6	1652.2512416244	Sum of GTIs [s]
ontime7	3942.5304878801	Sum of GTIs [s]
ontime8	1684.7437516078	Sum of GTIs [s]
ontime9	1615.4712961167	Sum of GTIs [s]
l2events	1286433	Number of level 2 events

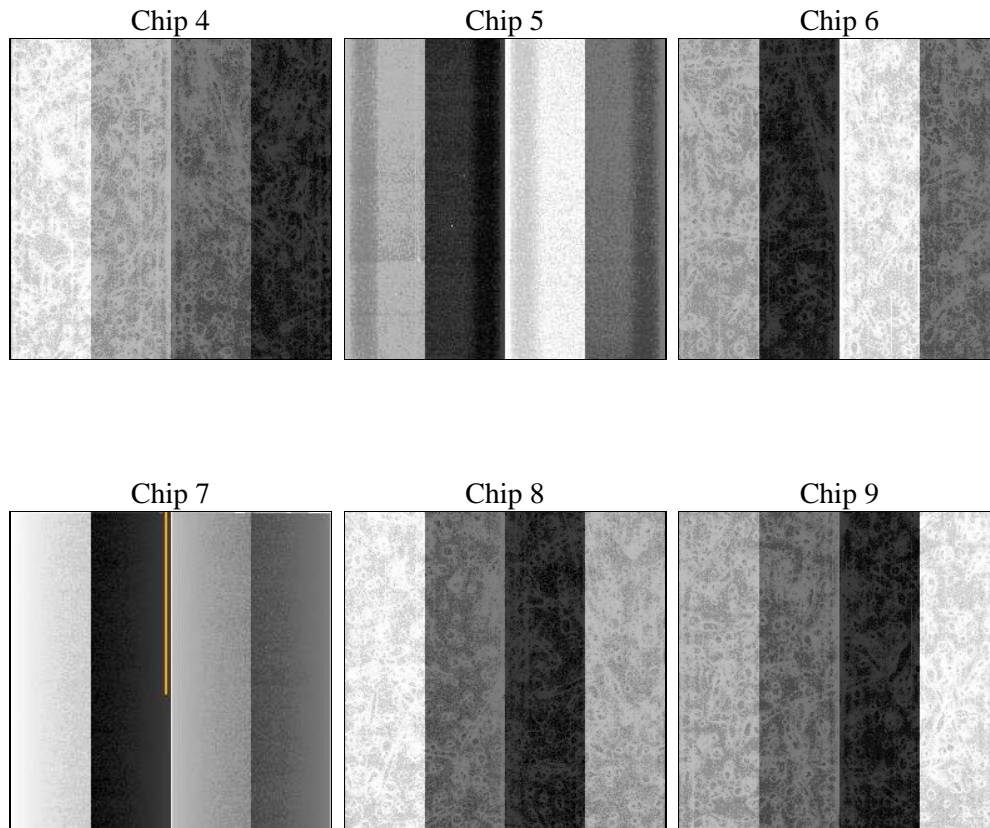
2 OBI

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	2009-11-20T19:17:16	Date and time of file creation	ontime	3942.5304878801
revision	3	Processing version of data	ontime4	1470.7940711901
			ontime5	4232.0657548532
			ontime6	1652.2512416244
			ontime7	3942.5304878801
			ontime8	1684.7437516078
			ontime9	1615.4712961167
			l1events	1521795

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	149513	416910	179199	423681	184642	167850	grade 0 events	29138	37453	42313	69208	55922	44626
rejected events	25697	70420	27675	43123	27071	25048		19%	8%	23%	16%	30%	26%
rejected %	17%	16%	15%	10%	14%	14%	grade 1 events	119	155	148	163	253	187
								0%	0%	0%	0%	0%	0%
							grade 2 events	66907	135762	71731	106715	62602	62930
								44%	32%	40%	25%	33%	37%
							grade 3 events	2990	18030	4335	33378	6014	4541
								1%	4%	2%	7%	3%	2%
							grade 4 events	2825	15719	4408	29874	5942	4652
								1%	3%	2%	7%	3%	2%
							grade 5 events	1219	7190	1399	5817	1611	1473
								0%	1%	0%	1%	0%	0%
							grade 6 events	23028	142161	29965	144086	28320	26927
								15%	34%	16%	34%	15%	16%
							grade 7 events	23287	60440	24900	34440	23978	22514
								15%	14%	13%	8%	12%	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	130.7897862655277	Alternating exposures requested	N	N
Pointing Dec	0	36.39809541941602	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	72.34360532950956			
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	56917904.606	56917903.837899			
Observation start date	1999-10-21T18:31:45	1999-10-21T18:31:43			
Observation end time	56927705.657	56927704.888252			
Observation end date	1999-10-21T21:15:06	1999-10-21T21:15:04			
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	3.9425304878801

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 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.