

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61917 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 8 2007

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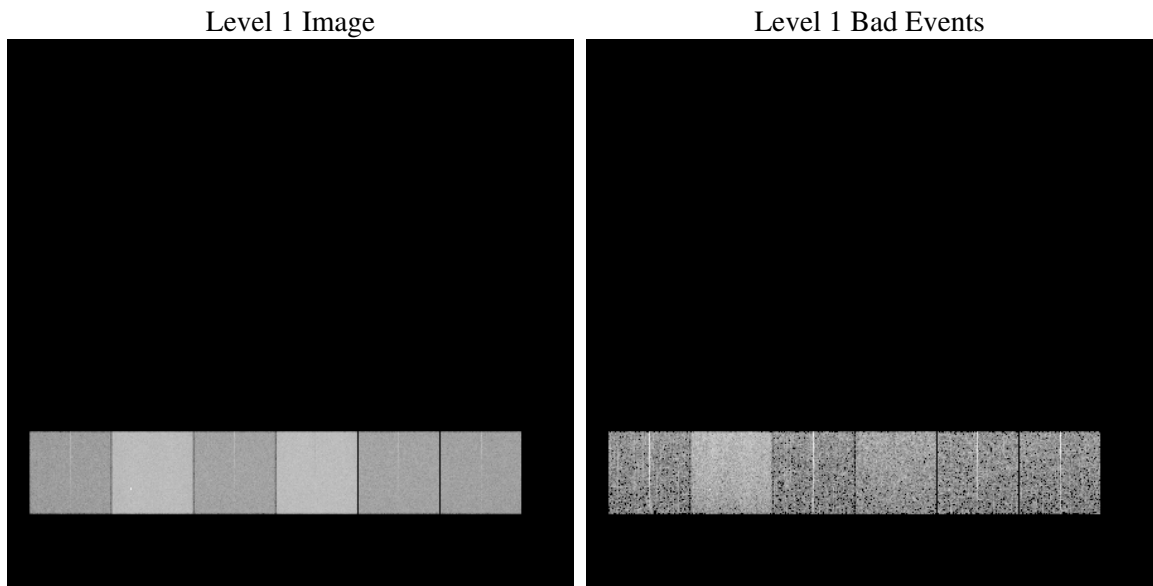
1 Front

seq_num	
obs_id	61917
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	327.92850692128
dec_nom	-42.325769249809
roll_nom	320.03546488113
revision	3
ontime	4817.0943211913
livetime	4756.0973723904
ontime4	2071.9532059133
ontime5	5186.5652938187
ontime6	2295.584835723
ontime7	4817.0943211913
ontime8	2292.3436462283
ontime9	2221.9331047982
l2events	1367531

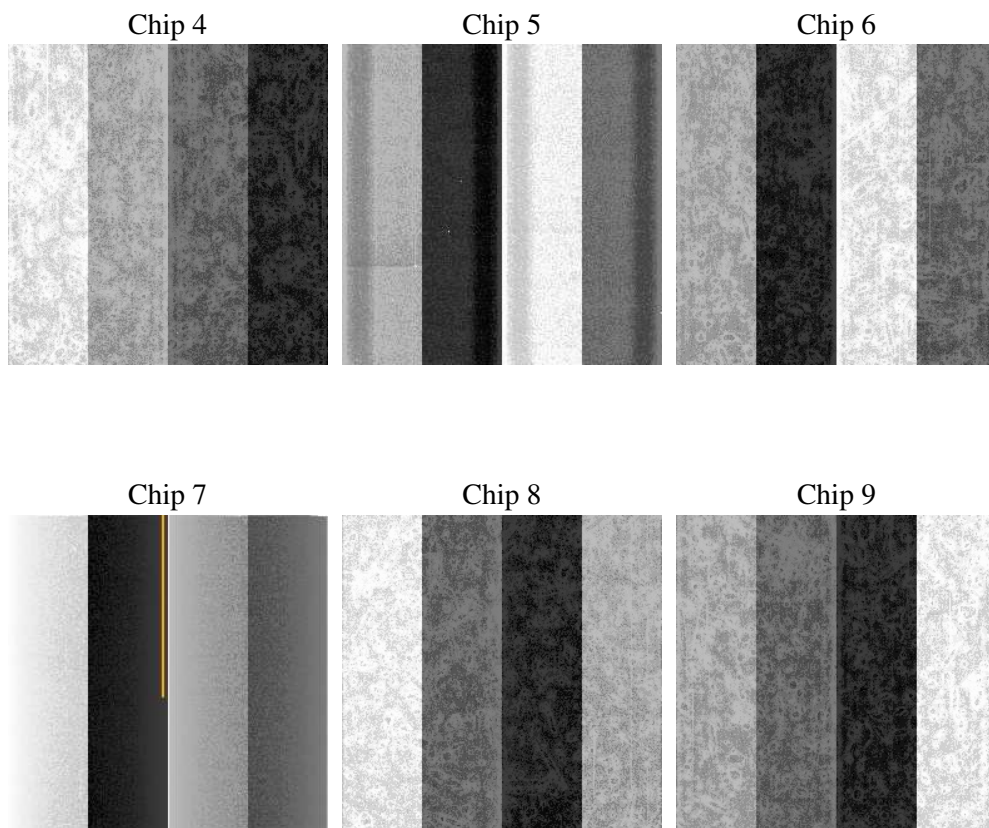
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-08T14:53:57
revision	3

sched_exp_time	0.0
ontime	4817.0943211913
ontime4	2071.9532059133
ontime5	5186.5652938187
ontime6	2295.584835723
ontime7	4817.0943211913
ontime8	2292.3436462283
ontime9	2221.9331047982
l1events	1556074

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	172165	387266	202220	401932	203234	189257
rejected events	18233	37469	17435	22270	18185	17127
rejected %	10%	9%	8%	5%	8%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	85997	80697	100781	97708	102369	94564
	49%	20%	49%	24%	50%	49%
grade 1 events	390	228	460	226	438	465
	0%	0%	0%	0%	0%	0%
grade 2 events	29027	131444	32373	83073	32714	30935
	16%	33%	16%	20%	16%	16%
grade 3 events	8917	21217	11141	38624	11417	10372
	5%	5%	5%	9%	5%	5%
grade 4 events	8955	20848	11163	38157	11477	10461
	5%	5%	5%	9%	5%	5%
grade 5 events	1241	7617	1427	4969	1426	1332
	0%	1%	0%	1%	0%	0%
grade 6 events	21036	95591	29327	122100	27072	25798
	12%	24%	14%	30%	13%	13%
grade 7 events	16602	29624	15548	17075	16321	15330
	9%	7%	7%	4%	8%	8%

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	327.9285069212837	Alternating exposures requested	N	N
Pointing Dec	0	-42.32576924980945	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	320.0354648811309			
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	85705910.16599999	85705909.39741801			
Observation start date	2000-09-18T23:11:50	2000-09-18T23:11:49			
Observation end time	85716420.516	85716419.747813			
Observation end date	2000-09-19T02:07:01	2000-09-19T02:06:59			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.81709432

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for approximately the first 4.5 ksec of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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.