

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61950 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 5 2007

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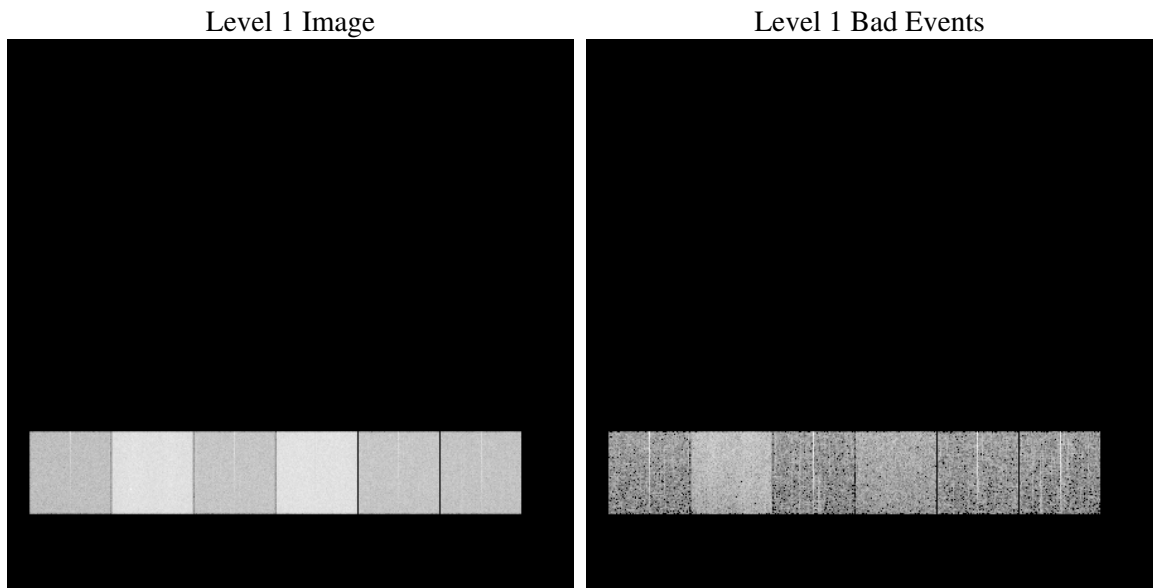
1 Front

seq_num	
obs_id	61950
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	187.74663525611
dec_nom	-37.36306987726
roll_nom	217.56523285184
revision	2
ontime	4885.3553620875
livetime	4823.4940508849
ontime4	1997.7466675192
ontime5	5254.9598210603
ontime6	2221.3259515166
ontime7	4885.3553620875
ontime8	2218.1371676028
ontime9	2162.8639620841
l2events	1348646

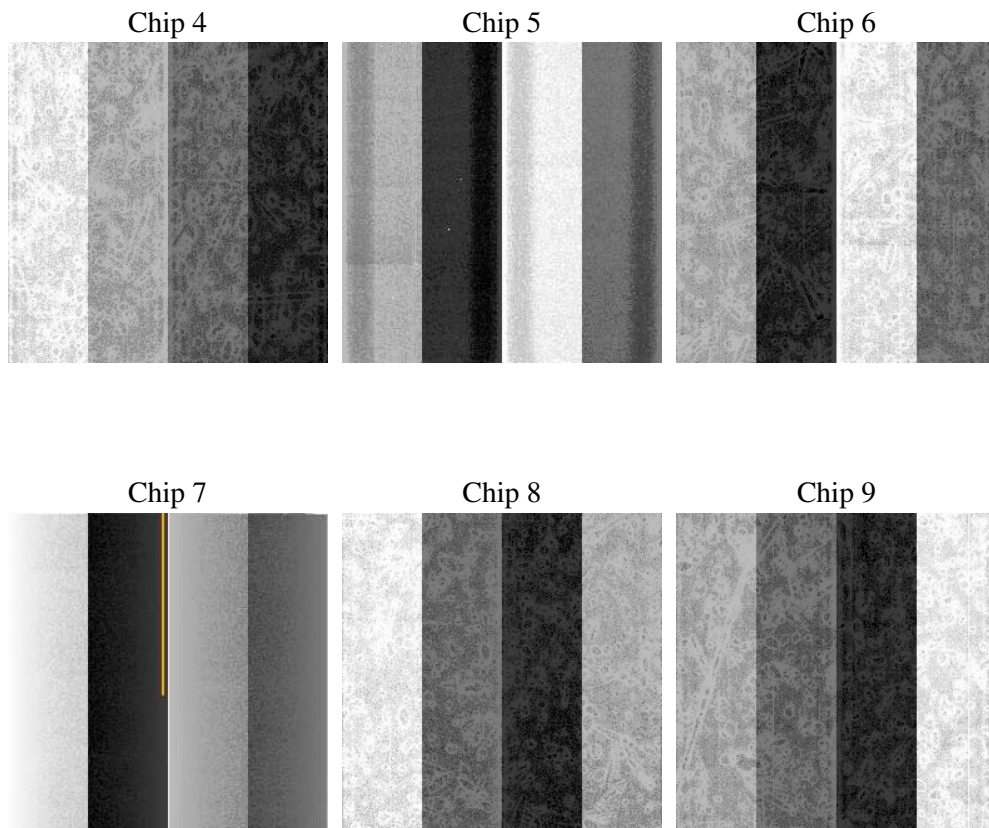
2 OBI

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	2007-06-05T14:26:17
revision	2

sched_exp_time	0.0
ontime	4885.3553620875
ontime4	1997.7466675192
ontime5	5254.9598210603
ontime6	2221.3259515166
ontime7	4885.3553620875
ontime8	2218.1371676028
ontime9	2162.8639620841
l1events	1554616

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	165674	397754	196470	411057	197955	185706
rejected events	19593	44240	19783	26334	20523	20034
rejected %	11%	11%	10%	6%	10%	10%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	79020	76730	95363	98244	98283	90401
	47%	19%	48%	23%	49%	48%
grade 1 events	410	256	429	253	478	442
	0%	0%	0%	0%	0%	0%
grade 2 events	30509	137500	32622	84076	32128	30620
	18%	34%	16%	20%	16%	16%
grade 3 events	8463	20424	10464	39551	10852	9957
	5%	5%	5%	9%	5%	5%
grade 4 events	8308	19930	10362	38864	10780	10068
	5%	5%	5%	9%	5%	5%
grade 5 events	1359	8292	1481	5611	1555	1424
	0%	2%	0%	1%	0%	0%
grade 6 events	20480	100309	28637	125282	26177	25385
	12%	25%	14%	30%	13%	13%
grade 7 events	17125	34313	17112	19176	17702	17409
	10%	8%	8%	4%	8%	9%

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	187.7466352561081	Alternating exposures requested	N	N
Pointing Dec	0	-37.36306987726023	Primary exposure time	3.2	3.2
Pointing Roll	0.0	217.5652328518418			
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	83876436.79714701	83876436.028687			
Observation start date	2000-08-28T19:00:37	2000-08-28T19:00:36			
Observation end time	83887410.447559	83887409.67909899			
Observation end date	2000-08-28T22:03:30	2000-08-28T22:03:29			
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)	2007.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.88535536

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 6first 6 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.