

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 59439 - L2 Version 002
Chandra X-Ray Center

L2 Processing Date : Mar 26 2006

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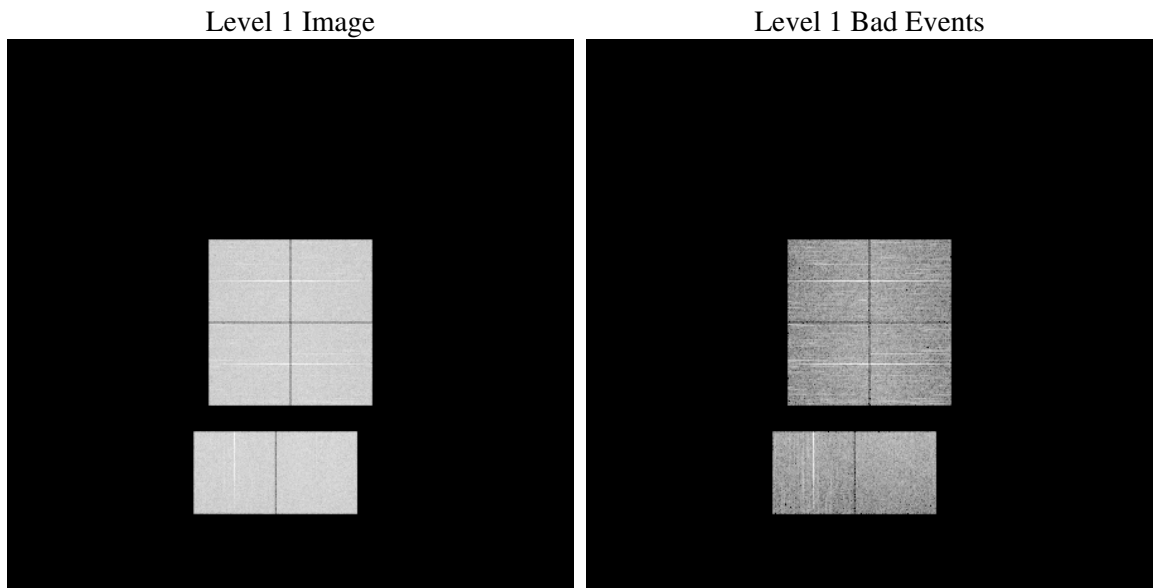
1 Front

seq_num	
obs_id	59439
title	ACIS-012367 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	347.66750338776
dec_nom	25.975305090085
roll_nom	206.14949805102
revision	2
ontime	8223.9999693632
livetime	8119.8627298529
ontime0	8223.9999693632
ontime1	8223.9999693632
ontime2	8223.9999693632
ontime3	8223.9999693632
ontime6	8223.9999693632
ontime7	8223.9999693632
l2events	1061351

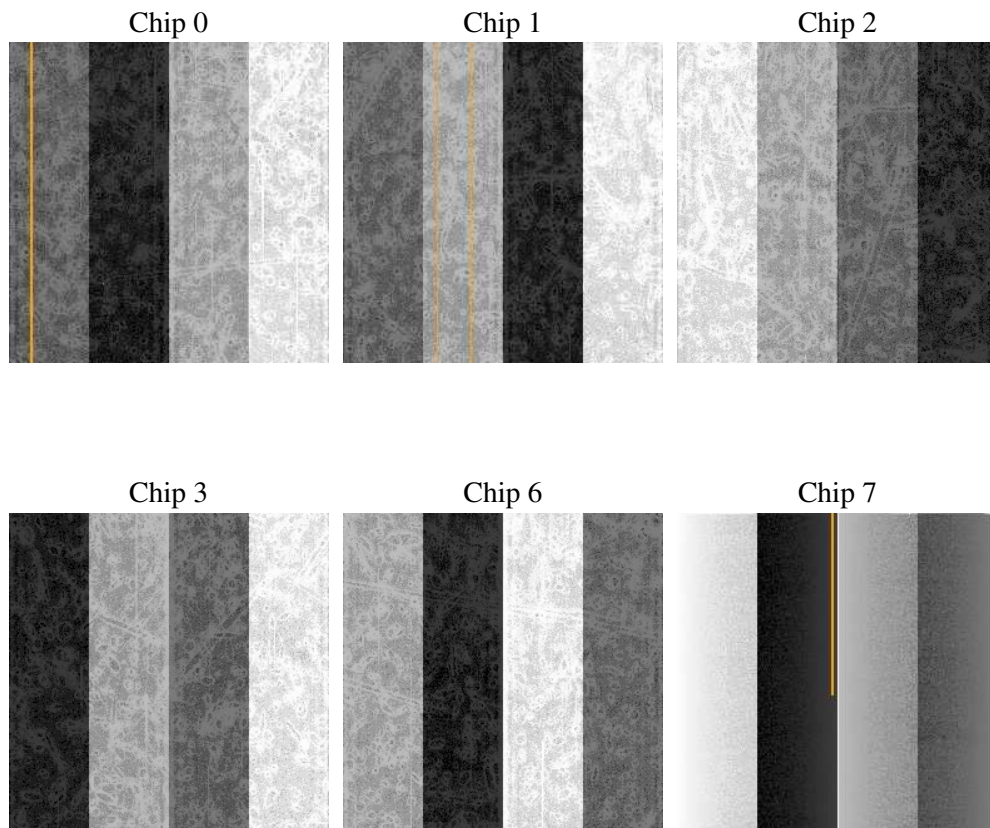
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-26T07:52:02
revision	2

sched_exp_time	0.0
ontime	8290.4998915195
ontime0	8290.4998915195
ontime1	8290.4998915195
ontime2	8290.4998716414
ontime3	8290.4998915195
ontime6	8290.4998716414
ontime7	8290.4998915195
l1events	1451495

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	234269	234412	239830	241192	248013	253779
rejected events	52866	52501	56012	57571	56994	58498
rejected %	22%	22%	23%	23%	22%	23%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	99997	99913	103364	103704	104401	32167
	42%	42%	43%	42%	42%	12%
grade 1 events	535	509	603	595	468	104
	0%	0%	0%	0%	0%	0%
grade 2 events	32305	32651	31264	31503	33286	60108
	13%	13%	13%	13%	13%	23%
grade 3 events	12019	11765	12100	11951	11920	13606
	5%	5%	5%	4%	4%	5%
grade 4 events	11629	11914	12132	12150	11786	13342
	4%	5%	5%	5%	4%	5%
grade 5 events	3161	3301	3033	3601	3585	6426
	1%	1%	1%	1%	1%	2%
grade 6 events	26816	27131	26412	25796	31163	77568
	11%	11%	11%	10%	12%	30%
grade 7 events	47807	47228	50922	51892	51404	50458
	20%	20%	21%	21%	20%	19%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	347.6675033877561	Alternating exposures requested	N	N
Pointing Dec	0	25.97530509008456	Primary exposure time	3.2	3.2
Pointing Roll	0.0	206.1494980510197			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.4635187648994			
SIM translation stage offset (mm)	0	-0.007540371344731511			
Observation start time	243803015.878879	243803014.85388			
Observation start date	2005-09-22T19:03:36	2005-09-22T19:03:34			
Observation end time	243825549.479916	243825548.45491			
Observation end date	2005-09-23T01:19:09	2005-09-23T01:19:08			
Read mode	TIMED	TIMED			

2.3 Aspect

2.4 Star Slots

2.5 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.22399996

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. GOs should subtract 1.3 degrees from the reported temperature to determine the true temperature. In addition the FP temperature was not regulating during this period. The FP temperature fluctuated between -121.3 C and -118.8 C during this time. For analysis of line-dominated spectra from the FI CCDs, GOs might notice a systematic gain shift by up to 0.5%, either towards higher/lower energies depending on if the FP temperature was colder/warmer than -119.7 C. Analysis of line-dominated spectra on S3 are mostly unaffected (where mostly unaffected means that the changes are smaller than the current uncertainties in the calibration). Analysis of continuum-dominated spectra on both the FI and BI CCDs are mostly unaffected. Imaging analysis on both the FI and BI CCDs are mostly unaffected.