

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 59449 - L2 Version 002
Chandra X-Ray Center

L2 Processing Date : Mar 26 2006

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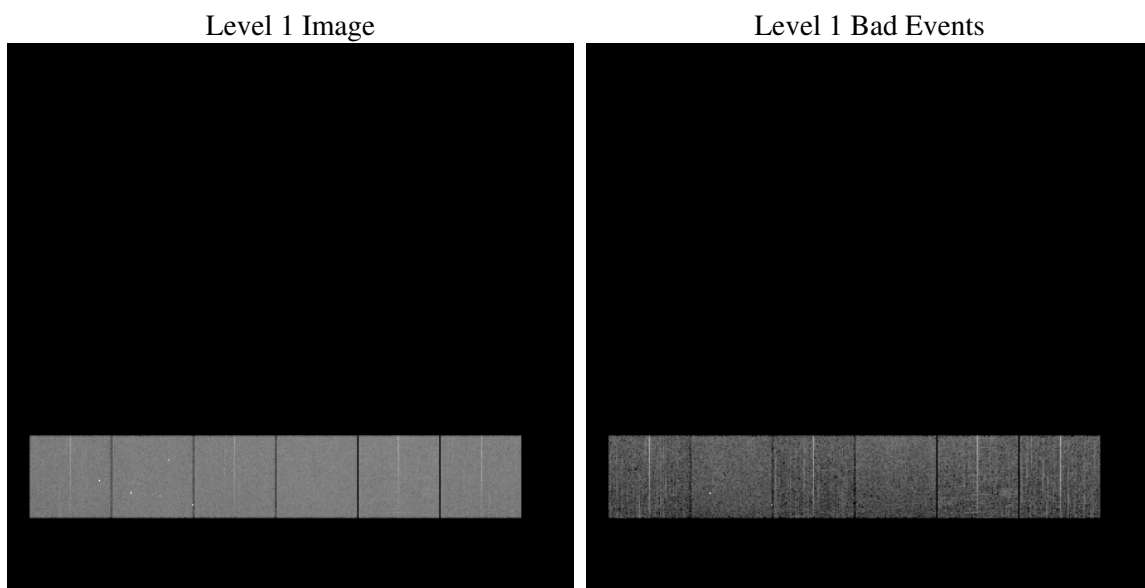
1 Front

seq_num	
obs_id	59449
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	339.98705193471
dec_nom	21.974072940654
roll_nom	212.2132145755
revision	2
ontime	7798.0655435324
livetime	7699.3217421888
ontime4	7256.9461242259
ontime5	7801.3475837111
ontime6	7438.3995208442
ontime7	7798.0655435324
ontime8	7513.0239576399
ontime9	7418.830768317
l2events	1042179

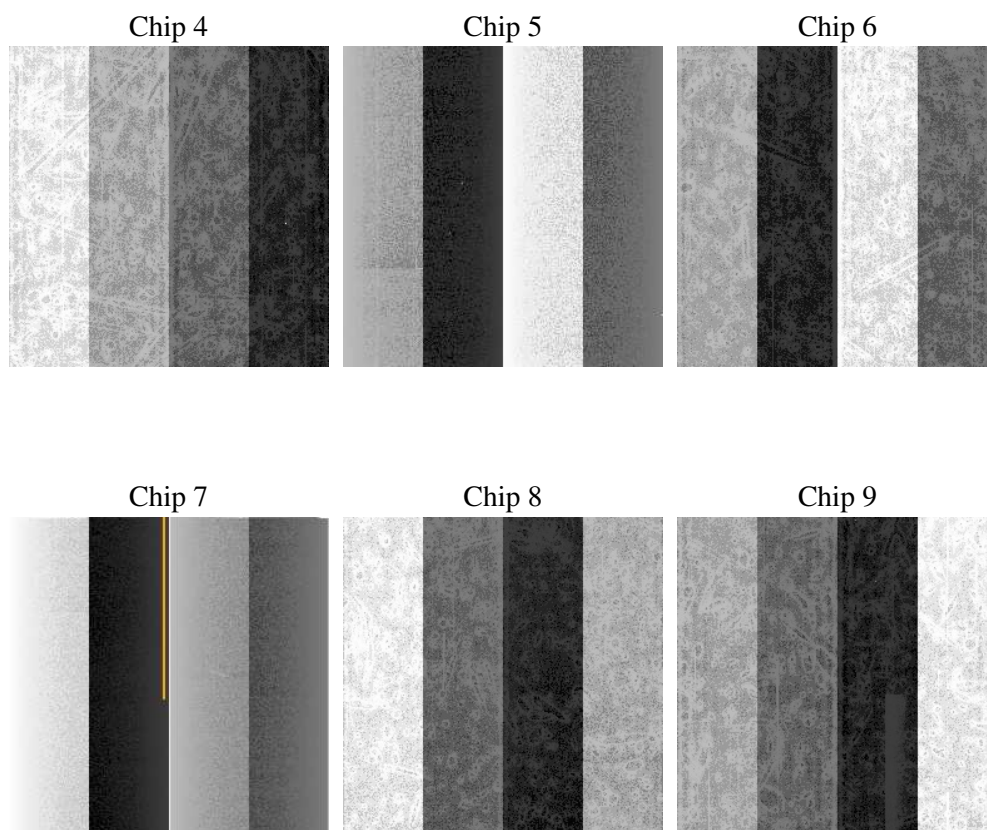
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-26T06:24:44
revision	2

sched_exp_time	0.0
ontime	7801.0950585008
ontime4	7259.8525191844
ontime5	7804.3360586762
ontime6	7441.346955806
ontime7	7801.0950585008
ontime8	7515.8893126249
ontime9	7421.9013232887
l1events	1403696

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	219280	231800	232963	243740	246639	229274
rejected events	46766	51668	45168	48490	51429	48665
rejected %	21%	22%	19%	19%	20%	21%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	99556	22571	100557	33261	105236	98564
	45%	9%	43%	13%	42%	42%
grade 1 events	734	289	481	89	546	570
	0%	0%	0%	0%	0%	0%
grade 2 events	27222	82779	33034	59269	33739	30979
	12%	35%	14%	24%	13%	13%
grade 3 events	11505	5949	11472	13667	12835	11490
	5%	2%	4%	5%	5%	5%
grade 4 events	11296	5944	11581	13428	12680	11496
	5%	2%	4%	5%	5%	5%
grade 5 events	2845	5256	3049	5592	3515	3129
	1%	2%	1%	2%	1%	1%
grade 6 events	22996	62945	31219	75700	30794	28147
	10%	27%	13%	31%	12%	12%
grade 7 events	43126	46067	41570	42734	47294	44899
	19%	19%	17%	17%	19%	19%

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	339.9870519347124	Alternating exposures requested	N	N
Pointing Dec	0	21.97407294065428	Primary exposure time	3.2	3.2
Pointing Roll	0.0	212.2132145755029			
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	243300995.455769	243300994.43079			
Observation start date	2005-09-16T23:36:35	2005-09-16T23:36:34			
Observation end time	243320683.656672	243320682.63169			
Observation end date	2005-09-17T05:04:44	2005-09-17T05:04:42			
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	7.79806554

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.