

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 59444 - L2 Version 002
Chandra X-Ray Center

L2 Processing Date : Mar 26 2006

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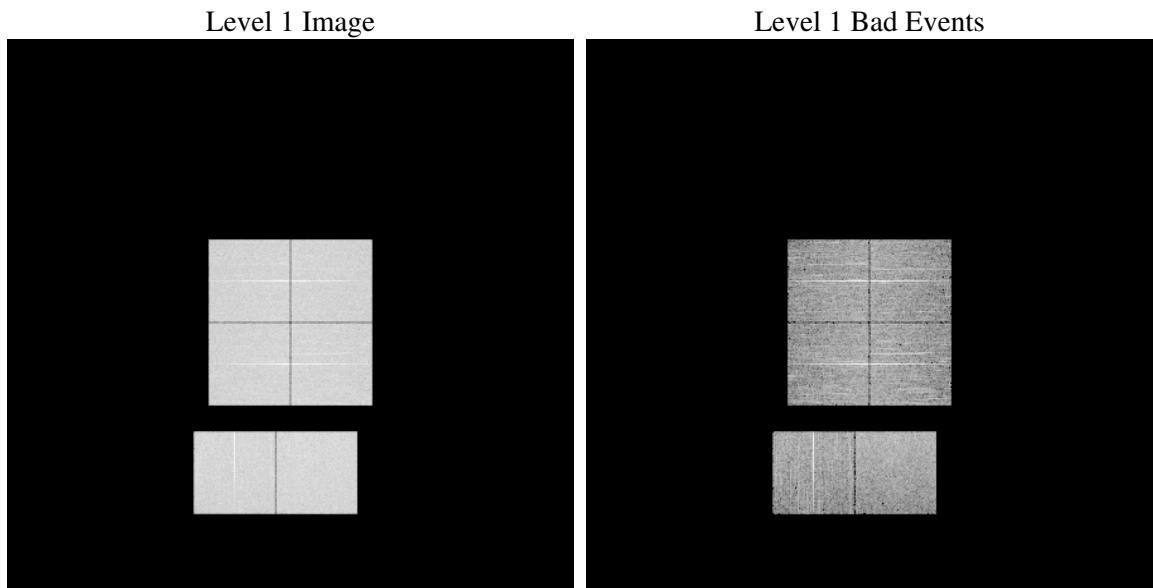
1 Front

seq_num	
obs_id	59444
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	15.169639437865
dec_nom	21.103870699608
roll_nom	139.2956575608
revision	2
ontime	7804.7450283766
livetime	7705.916647374
ontime0	7804.7860683799
ontime1	7804.7999709249
ontime2	7804.7999709249
ontime3	7804.7039883733
ontime6	7804.7999709249
ontime7	7804.7450283766
l2events	1041186

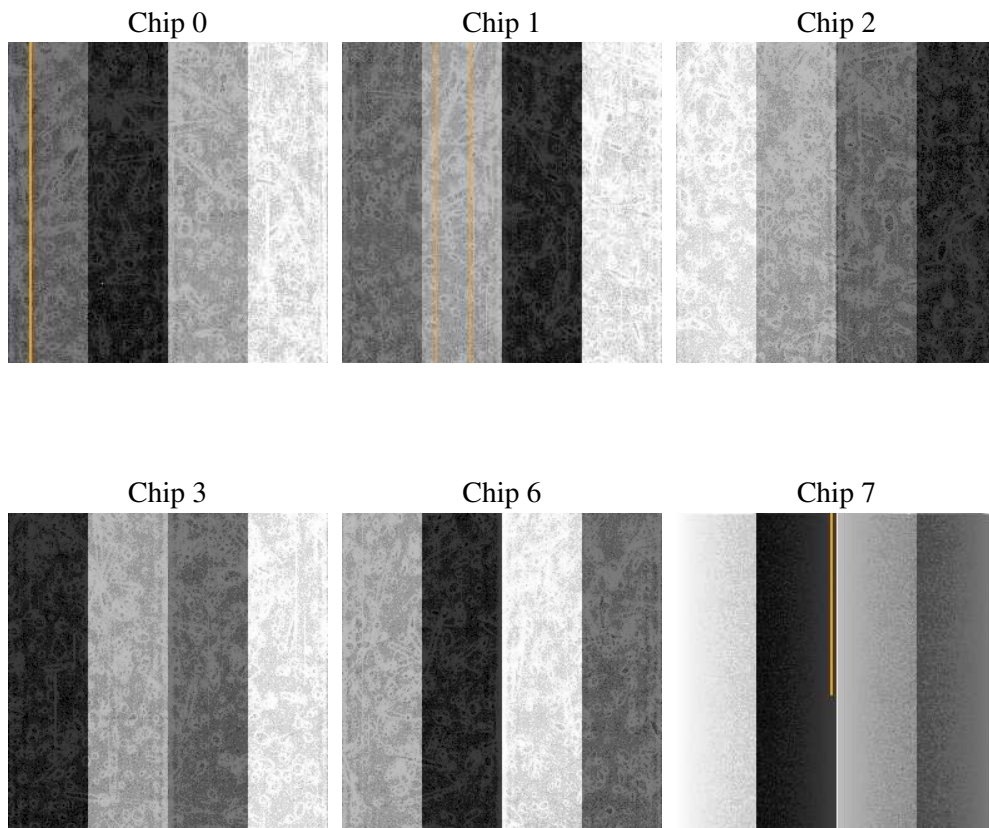
2 OBI

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	2006-03-26T07:02:26
revision	2

sched_exp_time	0.0
ontime	7807.5987888575
ontime0	7807.5987888575
ontime1	7807.5987888575
ontime2	7807.5987888575
ontime3	7807.5987888575
ontime6	7807.5987888575
ontime7	7807.5987888575
l1events	1389019

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	226926	225131	228581	231697	235949	240735
rejected events	47865	45962	48766	50520	49438	50929
rejected %	21%	20%	21%	21%	20%	21%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	98152	97678	100270	101415	100301	31438
	43%	43%	43%	43%	42%	13%
grade 1 events	510	446	539	587	493	93
	0%	0%	0%	0%	0%	0%
grade 2 events	31295	32200	30282	30878	32463	57998
	13%	14%	13%	13%	13%	24%
grade 3 events	11625	11425	11612	11914	11537	13141
	5%	5%	5%	5%	4%	5%
grade 4 events	11624	11247	11626	11782	11797	13122
	5%	4%	5%	5%	4%	5%
grade 5 events	2895	2994	2875	3298	3286	5996
	1%	1%	1%	1%	1%	2%
grade 6 events	26428	26686	26107	25246	30485	74190
	11%	11%	11%	10%	12%	30%
grade 7 events	44397	42455	45270	46577	45587	44757
	19%	18%	19%	20%	19%	18%

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	15.16963943786508	Alternating exposures requested	N	N
Pointing Dec	0	21.10387069960775	Primary exposure time	3.2	3.2
Pointing Roll	0.0	139.2956575608038			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.4635187648994			
SIM translation stage offset (mm)	0	-0.007540371344731511			
Observation start time	243529843.116265	243529842.09131			
Observation start date	2005-09-19T15:10:43	2005-09-19T15:10:42			
Observation end time	243549369.36716	243549368.34221			
Observation end date	2005-09-19T20:36:09	2005-09-19T20:36:08			
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	7.80474502

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.