

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 59441 - L2 Version 002
Chandra X-Ray Center

L2 Processing Date : Mar 26 2006

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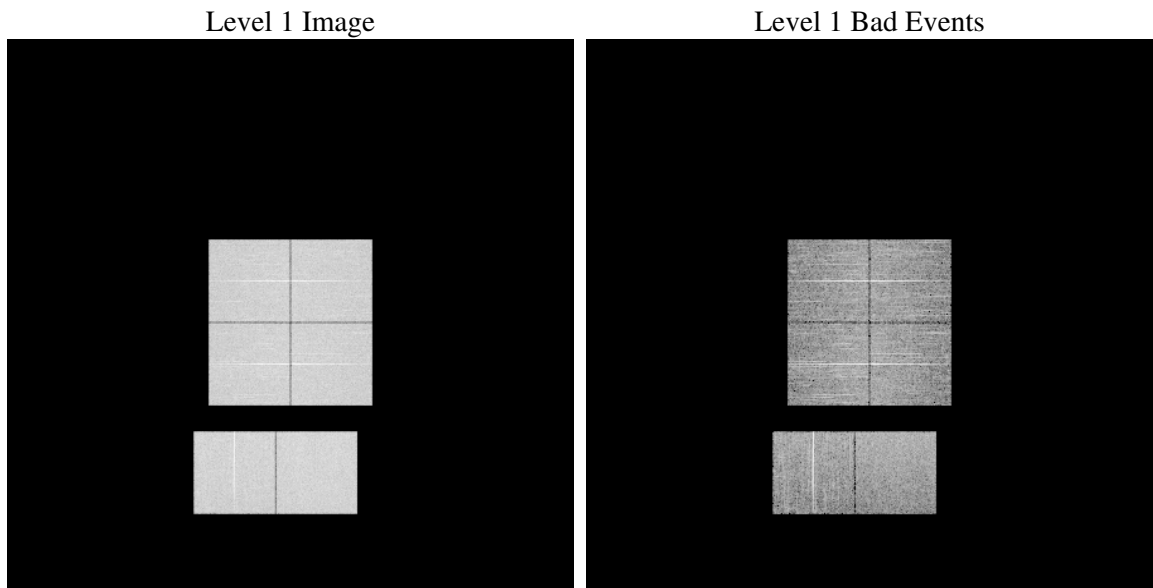
1 Front

seq_num	
obs_id	59441
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	17.169395587133
dec_nom	22.103581181972
roll_nom	139.87810324521
revision	2
ontime	7801.1556305289
livetime	7702.3727006432
ontime0	7801.1966506243
ontime1	7804.4787207544
ontime2	7804.5197607577
ontime3	7801.1145706177
ontime6	7804.5608007312
ontime7	7801.1556305289
l2events	1004482

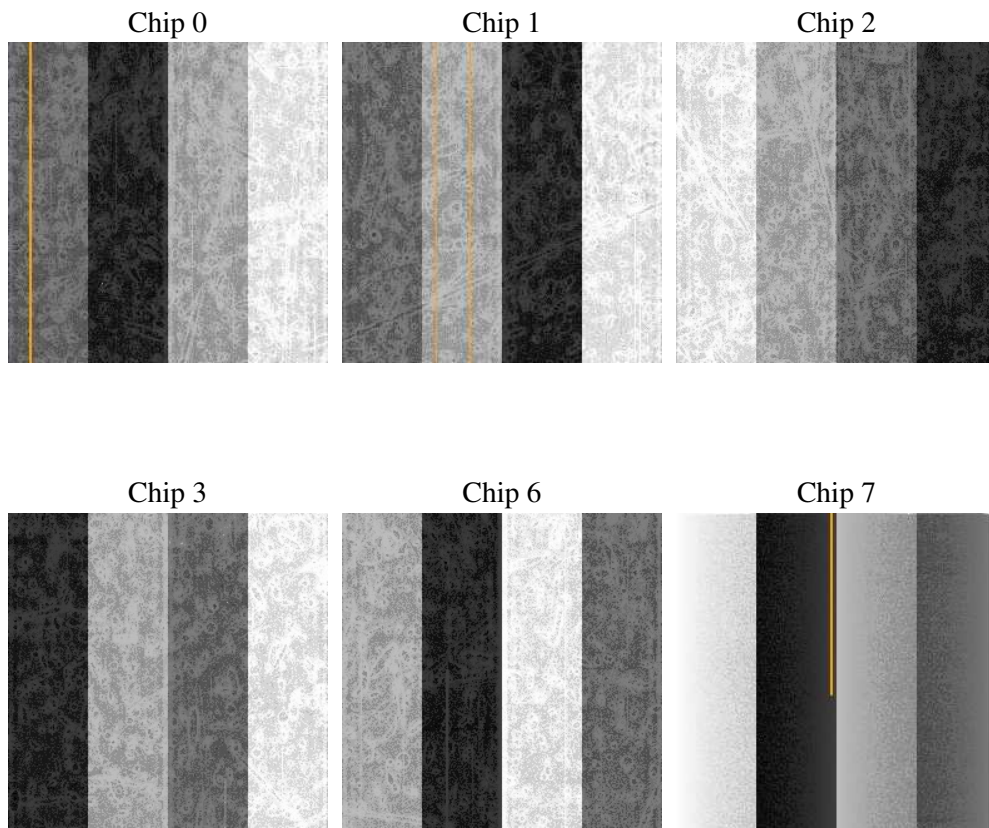
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-26T07:36:18
revision	2

sched_exp_time	0.0
ontime	7804.3628390729
ontime0	7804.362819165
ontime1	7807.6038492918
ontime2	7807.6038492918
ontime3	7804.362819165
ontime6	7807.6038492918
ontime7	7804.3628390729
l1events	1360832

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	219702	220306	226887	223927	232170	237840
rejected events	47734	47759	53469	50216	52012	52439
rejected %	21%	21%	23%	22%	22%	22%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	94916	94455	97052	97458	97679	31341
	43%	42%	42%	43%	42%	13%
grade 1 events	503	451	514	526	445	100
	0%	0%	0%	0%	0%	0%
grade 2 events	30225	30990	29216	29745	31371	56155
	13%	14%	12%	13%	13%	23%
grade 3 events	11160	10938	11445	11317	11257	13120
	5%	4%	5%	5%	4%	5%
grade 4 events	11034	10960	11247	11345	11306	12975
	5%	4%	4%	5%	4%	5%
grade 5 events	3159	3149	2985	3300	3333	6219
	1%	1%	1%	1%	1%	2%
grade 6 events	24691	25280	24522	23914	28620	71876
	11%	11%	10%	10%	12%	30%
grade 7 events	44014	44083	49906	46322	48159	46054
	20%	20%	21%	20%	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	17.16939558713293	Alternating exposures requested	N	N
Pointing Dec	0	22.10358118197214	Primary exposure time	3.2	3.2
Pointing Roll	0.0	139.8781032452128			
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	243763186.427047	243763185.40205			
Observation start date	2005-09-22T07:59:46	2005-09-22T07:59:45			
Observation end time	243779576.177801	243779575.1528			
Observation end date	2005-09-22T12:32:56	2005-09-22T12:32:55			
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	7.80115563

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.