V&V Reference Report
L2 ASCDS Version : 7.6.10

Observation 62003 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : May 30 2007

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1 Front

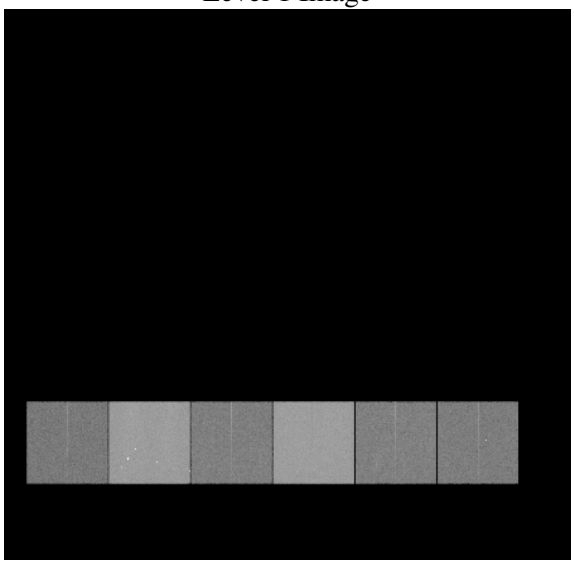
seq_num	
obs_id	62003
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtycycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	334.09883737495
dec_nom	56.555510365507
roll_nom	136.57618973898
revision	4
ontime	4433.6233749688
livetime	4377.4821661874
ontime4	1737.0959272236
ontime5	4751.2386344671
ontime6	1935.700341925
ontime7	4433.6233749688
ontime8	1967.2097865343
ontime9	1896.6847918779
l2events	1262332

2 OBI

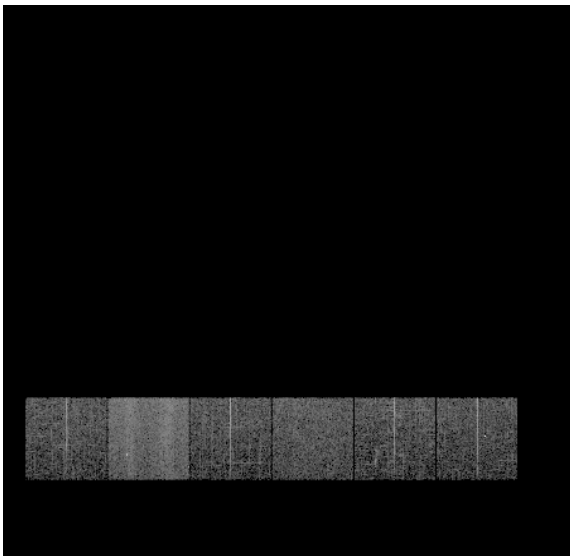
2.1 OBI

2.1.1 Images

Level 1 Image

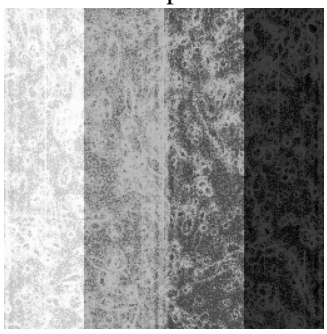


Level 1 Bad Events

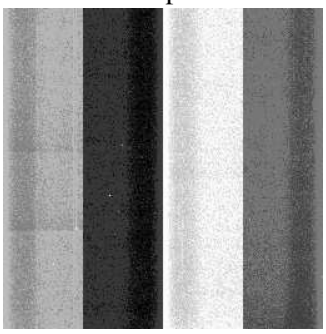


2.1.2 Bias

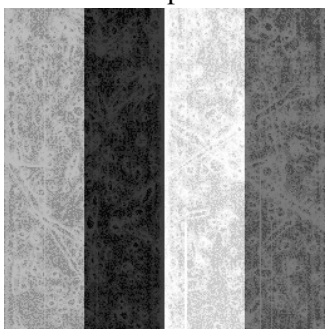
Chip 4



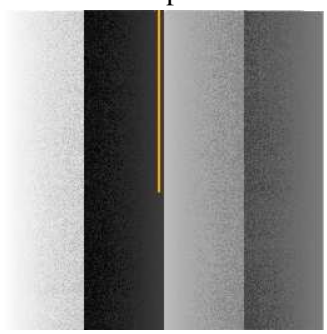
Chip 5



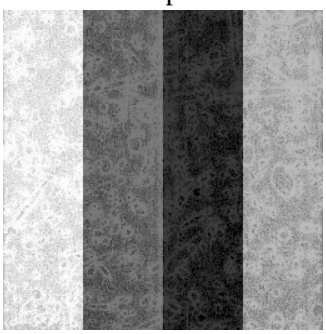
Chip 6



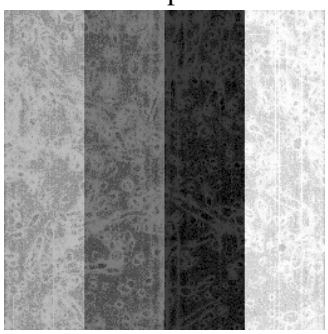
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-05-30T21:39:55
revision	4

sched_exp_time	0.0
ontime	4433.6233749688
ontime4	1737.0959272236
ontime5	4751.2386344671
ontime6	1935.700341925
ontime7	4433.6233749688
ontime8	1967.2097865343
ontime9	1896.6847918779
l1events	1431865

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	145899	382078	173065	389818	177402	163603
rejected events	21765	42841	21955	24083	21850	20495
rejected %	14%	11%	12%	6%	12%	12%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	40077	80373	59519	91944	71851	58901
	27%	21%	34%	23%	40%	36%
grade 1 events	182	385	202	262	275	790
	0%	0%	0%	0%	0%	0%
grade 2 events	55325	114043	52294	78417	43039	46853
	37%	29%	30%	20%	24%	28%
grade 3 events	4020	24912	6087	39315	7688	6234
	2%	6%	3%	10%	4%	3%
grade 4 events	3900	22409	6196	37666	7678	6337
	2%	5%	3%	9%	4%	3%
grade 5 events	1453	8083	1635	5259	1502	1596
	0%	2%	0%	1%	0%	0%
grade 6 events	21060	97701	27278	118647	25553	25045
	14%	25%	15%	30%	14%	15%
grade 7 events	19882	34172	19854	18308	19816	17847
	13%	8%	11%	4%	11%	10%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	0	334.0988373749454
Pointing Dec	0	56.55551036550714
Pointing Roll	0.0	136.5761897389771
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	79264494.22499999	79264493.456991
Observation start date	2000-07-06T09:54:54	2000-07-06T09:54:53
Observation end time	79307644.677	79307643.90857799
Observation end date	2000-07-06T21:54:05	2000-07-06T21:54:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	0.000000	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.05.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.43362337

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 the entire 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.