V&V Reference Report
L2 ASCDS Version : 7.6.10

Observation 61960 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 5 2007

Contents

1 Front

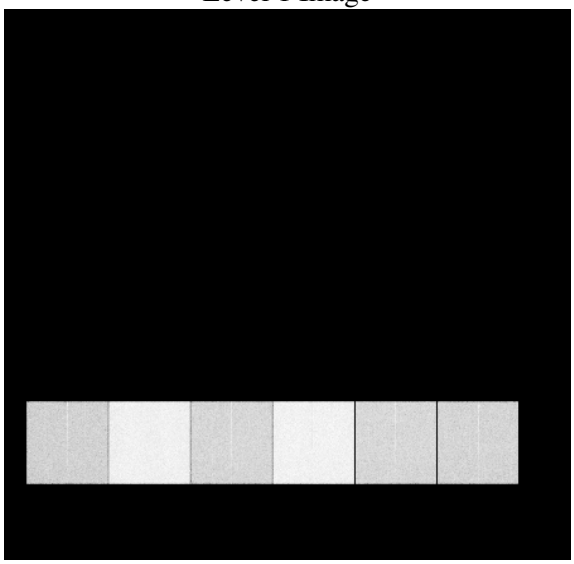
seq_num	
obs_id	61960
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtycycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	6.4690559485708
dec_nom	38.275337211362
roll_nom	136.872822736
revision	2
ontime	4762.4902708381
livetime	4702.1847514014
ontime4	2039.9265440404
ontime5	5125.2884173393
ontime6	2195.4553438723
ontime7	4762.4902708381
ontime8	2234.4298838675
ontime9	2143.7487986535
l2events	1357324

2 OBI

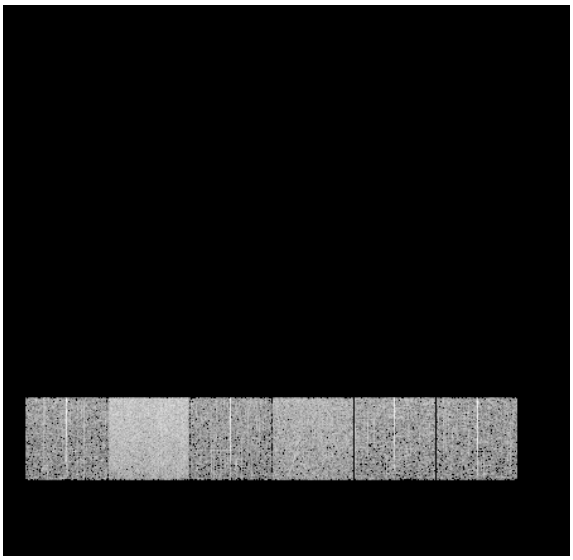
2.1 OBI

2.1.1 Images

Level 1 Image

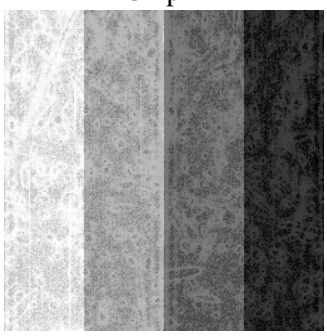


Level 1 Bad Events

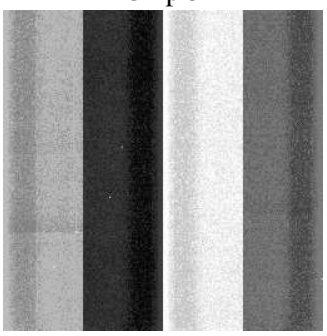


2.1.2 Bias

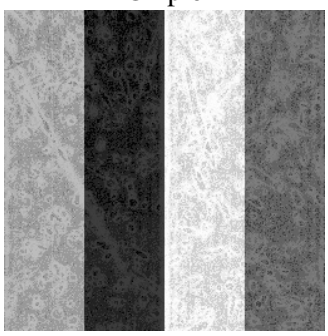
Chip 4



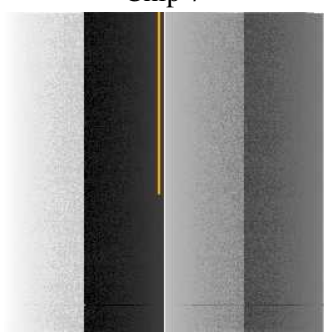
Chip 5



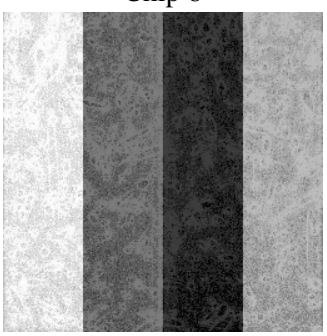
Chip 6



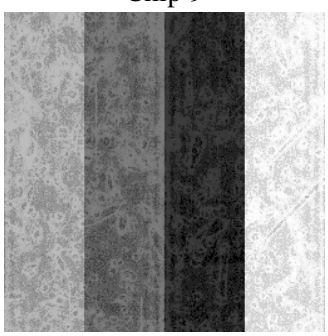
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-05T13:06:17
revision	2

sched_exp_time	0.0
ontime	4762.4902708381
ontime4	2039.9265440404
ontime5	5125.2884173393
ontime6	2195.4553438723
ontime7	4762.4902708381
ontime8	2234.4298838675
ontime9	2143.7487986535
l1events	1556511

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	172021	391427	198394	405674	202386	186609
rejected events	18931	39968	18859	25344	20398	18597
rejected %	11%	10%	9%	6%	10%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	86966	83437	98994	98559	101611	93190
	50%	21%	49%	24%	50%	49%
grade 1 events	480	232	460	287	499	447
	0%	0%	0%	0%	0%	0%
grade 2 events	27807	130333	31304	84840	32230	29750
	16%	33%	15%	20%	15%	15%
grade 3 events	9436	22064	11061	39251	11426	10345
	5%	5%	5%	9%	5%	5%
grade 4 events	9128	21687	10805	38751	11243	10430
	5%	5%	5%	9%	5%	5%
grade 5 events	1249	7821	1477	5427	1537	1426
	0%	1%	0%	1%	0%	0%
grade 6 events	20729	95890	28441	121043	26613	25600
	12%	24%	14%	29%	13%	13%
grade 7 events	16226	29963	15852	17516	17227	15421
	9%	7%	7%	4%	8%	8%

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	6.469055948570809
Pointing Dec	0	38.27533721136228
Pointing Roll	0.0	136.8728227360011
SIM focus pos (mm)	-0.684267	-0.6828225247311905
SIM defocus (mm)	0	0.8505141146731063
SIM translation stage pos (mm)	-190.132523	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	82967315.06299999	82967314.29460099
Observation start date	2000-08-18T06:28:35	2000-08-18T06:28:34
Observation end time	82977825.413	82977824.644995
Observation end date	2000-08-18T09:23:45	2000-08-18T09:23:44
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)	2007.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.76249027

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the the first 7 sec of the 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 approximately the first 1.5 ksec of this 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.