V&V Reference Report
L2 ASCDS Version : 7.6.10

Observation 61930 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 7 2007

Contents

1 Front

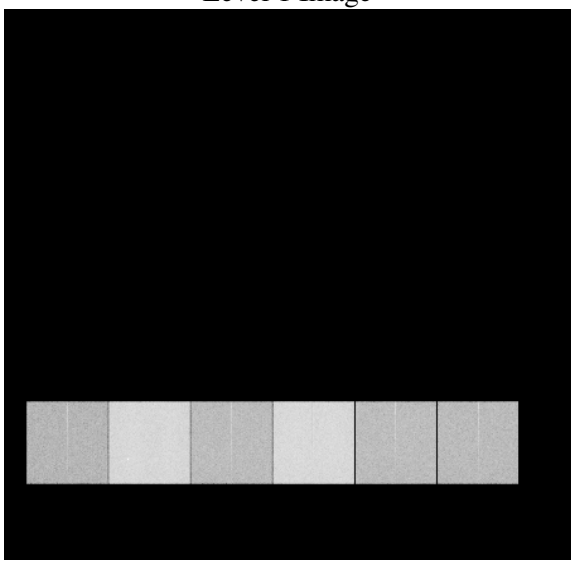
seq_num	
obs_id	61930
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtycycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	321.9606316151
dec_nom	-28.41986687778
roll_nom	307.36211484934
revision	2
ontime	4966.1818069369
livetime	4903.2970226217
ontime4	1997.9018150121
ontime5	5316.2048144639
ontime6	2247.4206948429
ontime7	4966.1818069369
ontime8	2241.0205952078
ontime9	2218.1279956102
l2events	1353284

2 OBI

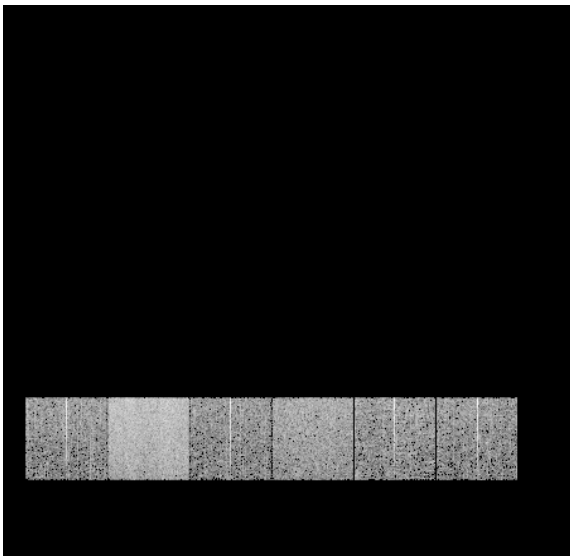
2.1 OBI

2.1.1 Images

Level 1 Image

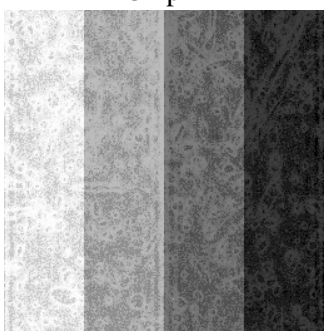


Level 1 Bad Events

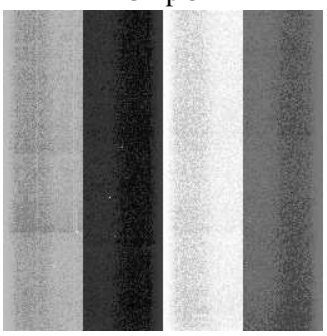


2.1.2 Bias

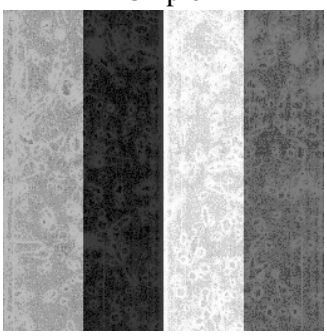
Chip 4



Chip 5

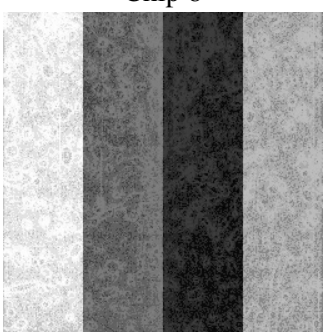


Chip 6

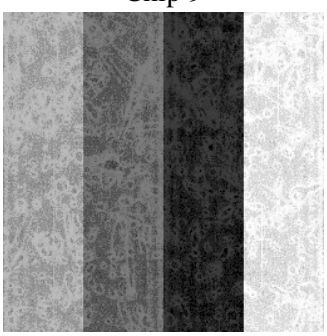


Chip 7

Chip 8



Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-07T04:27:32
revision	2

sched_exp_time	0.0
ontime	4966.1818069369
ontime4	1997.9018150121
ontime5	5316.2048144639
ontime6	2247.4206948429
ontime7	4966.1818069369
ontime8	2241.0205952078
ontime9	2218.1279956102
l1events	1554325

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	164074	397523	194537	412540	198027	187624
rejected events	19690	43359	18494	24987	20568	18478
rejected %	12%	10%	9%	6%	10%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	75226	76688	93239	98345	97493	91032
	45%	19%	47%	23%	49%	48%
grade 1 events	366	211	421	260	432	397
	0%	0%	0%	0%	0%	0%
grade 2 events	33026	136658	34688	84716	32818	32464
	20%	34%	17%	20%	16%	17%
grade 3 events	7827	20316	10017	39616	10510	9956
	4%	5%	5%	9%	5%	5%
grade 4 events	7893	19944	9969	39495	10547	9874
	4%	5%	5%	9%	5%	5%
grade 5 events	1380	8376	1491	5531	1514	1464
	0%	2%	0%	1%	0%	0%
grade 6 events	20665	100794	28385	125643	26343	26058
	12%	25%	14%	30%	13%	13%
grade 7 events	17691	34536	16327	18934	18370	16379
	10%	8%	8%	4%	9%	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	321.9606316151016
Pointing Dec	0	-28.41986687778035
Pointing Roll	0.0	307.3621148493419
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	85019766.94	85019766.171624
Observation start date	2000-09-11T00:36:07	2000-09-11T00:36:06
Observation end time	85032245.29099999	85032244.522093
Observation end date	2000-09-11T04:04:05	2000-09-11T04:04:04
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)	2007.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9661818

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.