V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62534 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Nov 17 2009

Contents

1 Front

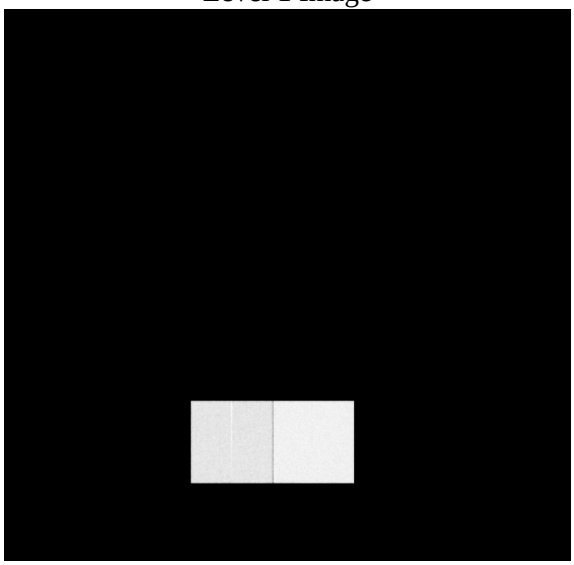
seq_num		Sequence number
obs_id	62534	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Target RA
dec_targ	0.0	Target Dec
ra_nom	119.99385893835	Nominal RA
dec_nom	-66.595035011757	Nominal Dec
roll_nom	122.89628765296	Nominal Roll
revision	5	Processing version of data
ontime	3819.690462254	Sum of GTIs [s]
livetime	3771.3232416795	Livetime [s]
ontime4	2319.0440268964	Sum of GTIs [s]
ontime5	3819.6494222507	Sum of GTIs [s]
ontime6	2591.1625517085	Sum of GTIs [s]
ontime7	3819.690462254	Sum of GTIs [s]
ontime8	2552.3532788455	Sum of GTIs [s]
ontime9	2578.2403194606	Sum of GTIs [s]
l2events	618752	Number of level 2 events

2 OBI

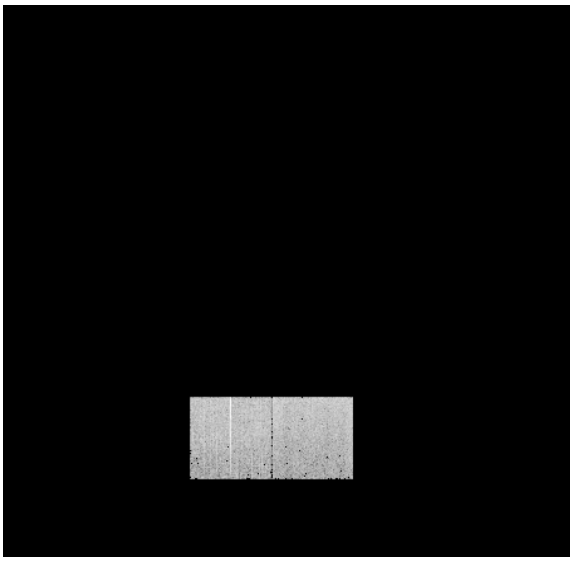
2.1 OBI

2.1.1 Images

Level 1 Image

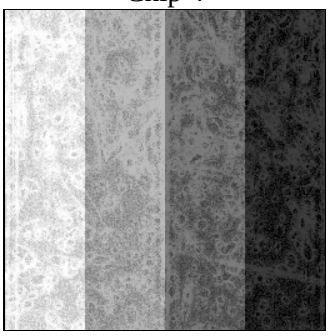


Level 1 Bad Events

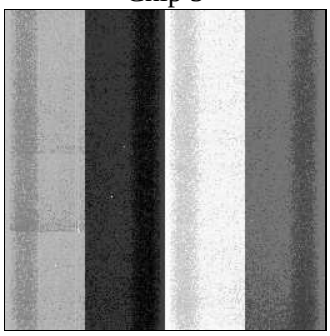


2.1.2 Bias

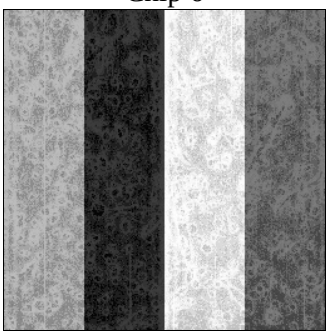
Chip 4



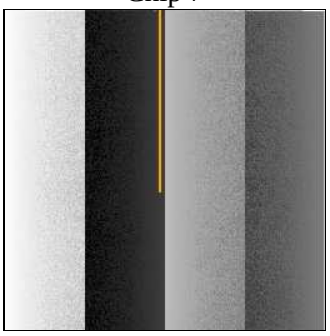
Chip 5



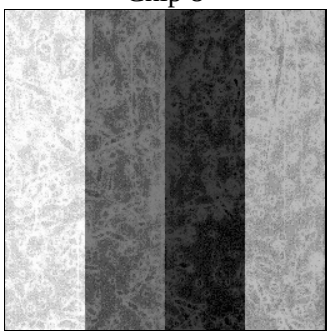
Chip 6



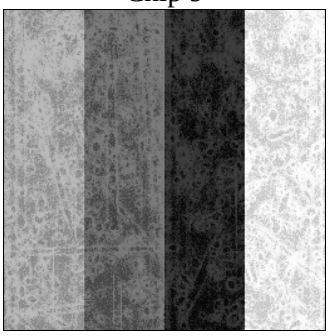
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0	ObI number
ascdsver	8.1.1	ASCDS version number
caldbver	4.1.4	
date	2009-11-17T10:17:14	Date and time of file creation
revision	5	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	3819.690462254	Sum of GTIs [s]
ontime4	2319.0440268964	Sum of GTIs [s]
ontime5	3819.6494222507	Sum of GTIs [s]
ontime6	2591.1625517085	Sum of GTIs [s]
ontime7	3819.690462254	Sum of GTIs [s]
ontime8	2552.3532788455	Sum of GTIs [s]
ontime9	2578.2403194606	Sum of GTIs [s]
l1events	707633	Number of level 1 events

2.1.4 Events

	ccd 4	**ccd 5**	**ccd 6**	**ccd 7**	**ccd 8**	**ccd 9**
level 1 events	0	0	285169	422464	0	0
rejected events	0	0	43369	39228	0	0
rejected %	0%	0%	15%	9%	0%	0%

	ccd 4	**ccd 5**	**ccd 6**	**ccd 7**	**ccd 8**	**ccd 9**
grade 0 events	0	0	64514	71959	0	0
	0%	0%	22%	17%	0%	0%
grade 1 events	0	0	284	165	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	117296	106316	0	0
	0%	0%	41%	25%	0%	0%
grade 3 events	0	0	6383	33626	0	0
	0%	0%	2%	7%	0%	0%
grade 4 events	0	0	6646	30243	0	0
	0%	0%	2%	7%	0%	0%
grade 5 events	0	0	2385	5919	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	47292	141092	0	0
	0%	0%	16%	33%	0%	0%
grade 7 events	0	0	40369	33144	0	0
	0%	0%	14%	7%	0%	0%

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	119.9938589383513
Pointing Dec	0	-66.59503501175712
Pointing Roll	0.0	122.8962876529639
SIM focus pos (mm)	-0.7809083437167272	-0.7809083437167272
SIM defocus (mm)	-0.09664087672086652	-0.09664087672086652
SIM translation stage pos (mm)	250.466033080201	250.466033080201
SIM translation stage offset (mm)	-440.5985561841682	-440.5985561841682
Observation start time	54055018.8	54055018.8
Observation start date	1999-09-18T15:16:59	1999-09-18T15:16:58
Observation stop time	54061358.648	54061358.648
Observation end date	1999-09-18T17:02:39	1999-09-18T17:02:38
Read mode	TIMED	TIMED

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

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2009.11.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.819690462254

A.2 Comments

```
A spatial exclusion window was specified for this observation.
Although
6 CCD chips were active, only events from chips 6 and 7 were
telemetered.
================================================================
Science Run for 123 begins (tt=54696519) before mid-slew (tt=54706872).

================================================================
Obsid 62534 has two science runs: acisf054054312N002_SR0.strip and
acisf054061357N002_SR0.strip inside its obsid transition time. The
first
one nicely fits in this interval, while the other is in fact a
premature
start of SR for the next obsid - even before obsid transition! An
override
obspar was used to resolve this issue.
============================================================
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.
```