V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62531 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 23 2010

Contents

1 Front

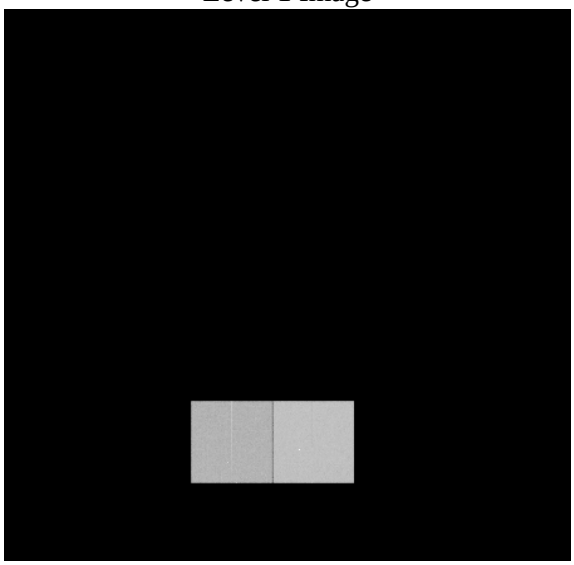
seq_num		Sequence number
obs_id	62531	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	119.99392135486	Nominal RA
dec_nom	-66.595167330029	Nominal Dec
roll_nom	122.89634461041	Nominal Roll
revision	3	Processing version of data
ontime	3904.2683326229	Sum of GTIs [s]
livetime	3854.8301361271	Livetime [s]
ontime4	2215.4188378081	Sum of GTIs [s]
ontime5	3904.3093726262	Sum of GTIs [s]
ontime6	2461.7330597565	Sum of GTIs [s]
ontime7	3904.2683326229	Sum of GTIs [s]
ontime8	2474.6970902681	Sum of GTIs [s]
ontime9	2422.8414177671	Sum of GTIs [s]
l2events	631142	Number of level 2 events

2 OBI

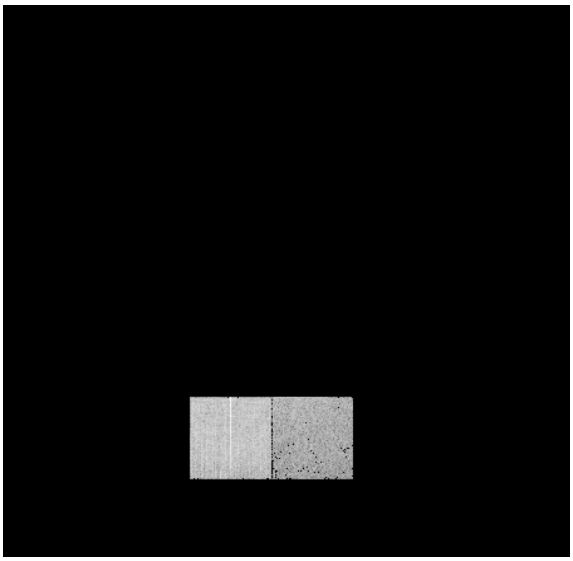
2.1 OBI

2.1.1 Images

Level 1 Image

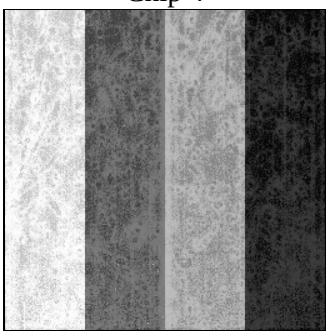


Level 1 Bad Events

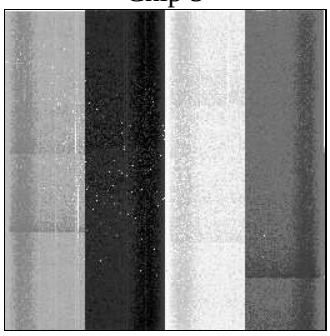


2.1.2 Bias

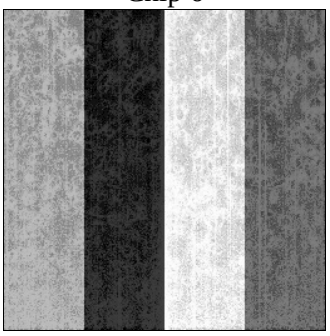
Chip 4



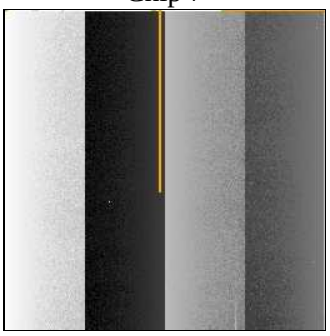
Chip 5



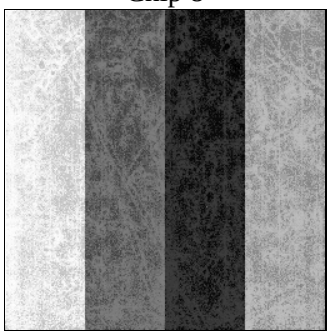
Chip 6



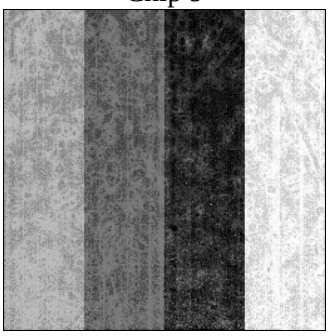
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.3.2.1	ASCDS version number
caldbver	4.3.1	
date	2010-09-23T16:50:17	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	3904.2683326229	Sum of GTIs [s]
ontime4	2215.4188378081	Sum of GTIs [s]
ontime5	3904.3093726262	Sum of GTIs [s]
ontime6	2461.7330597565	Sum of GTIs [s]
ontime7	3904.2683326229	Sum of GTIs [s]
ontime8	2474.6970902681	Sum of GTIs [s]
ontime9	2422.8414177671	Sum of GTIs [s]
l1events	722946	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	281953	440993	0	0
rejected events	0	0	58251	24367	0	0
rejected %	0%	0%	20%	5%	0%	0%

	ccd 4	**ccd 5**	**ccd 6**	**ccd 7**	**ccd 8**	**ccd 9**
grade 0 events	0	0	39359	99823	0	0
	0%	0%	13%	22%	0%	0%
grade 1 events	0	0	279	300	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	132498	92982	0	0
	0%	0%	46%	21%	0%	0%
grade 3 events	0	0	3781	42819	0	0
	0%	0%	1%	9%	0%	0%
grade 4 events	0	0	3767	42400	0	0
	0%	0%	1%	9%	0%	0%
grade 5 events	0	0	2213	5186	0	0
	0%	0%	0%	1%	0%	0%
grade						

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	119.9939213548606
Pointing Dec	0	-66.5951673300292
Pointing Roll	0.0	122.8963446104118
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	54075757.849	54075757.08027
Observation start date	1999-09-18T21:02:38	1999-09-18T21:02:37
Observation end time	54082957.449	54082956.680529
Observation end date	1999-09-18T23:02:37	1999-09-18T23:02:36
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9042683326229

A.2 Comments

```
Only chips 6 and 7 were telemetered.
==
The ACIS focal plane temperature is warmer than -118.7 C degrees during
the interval 54077246.68 - 54081153.88 (MET s) of this 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 C during the interval 54077246.68 - 54081153.88 (MET s) 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.
```