V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62366 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 19 2009

Contents

1 Front

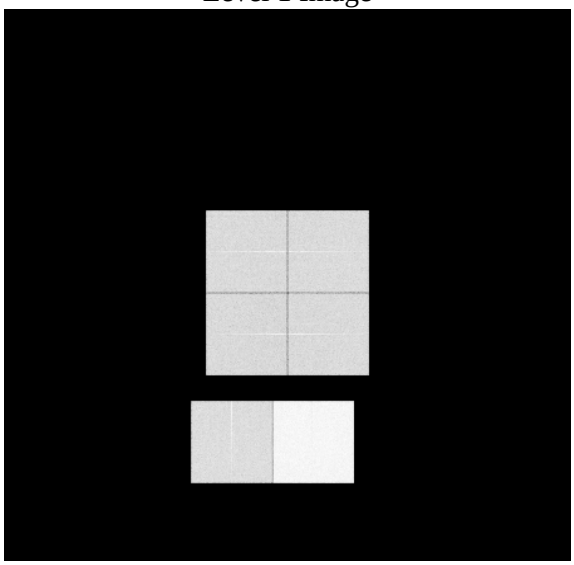
seq_num		Sequence number
obs_id	62366	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	112.14563799053	Nominal RA
dec_nom	80.027318322293	Nominal Dec
roll_nom	77.921387804	Nominal Roll
revision	3	Processing version of data
ontime	4430.4786879867	Sum of GTIs [s]
livetime	4374.3772991255	Livetime [s]
ontime0	1712.635831207	Sum of GTIs [s]
ontime1	1750.160316743	Sum of GTIs [s]
ontime2	1621.8046609685	Sum of GTIs [s]
ontime3	1678.8574864641	Sum of GTIs [s]
ontime6	1827.9452768937	Sum of GTIs [s]
ontime7	4430.4786879867	Sum of GTIs [s]
l2events	1204225	Number of level 2 events

2 OBI

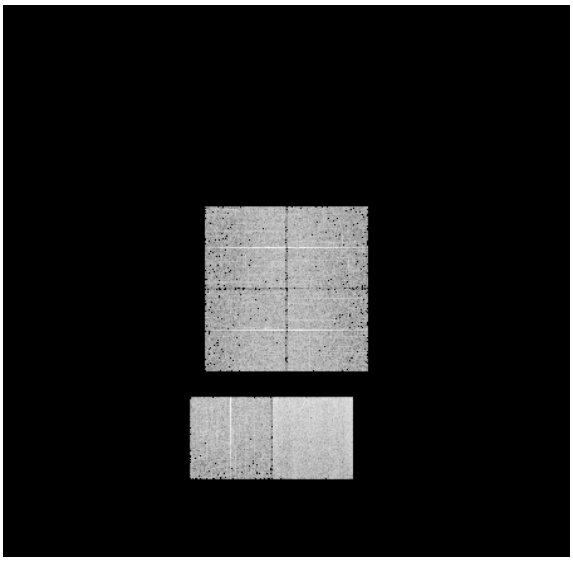
2.1 OBI

2.1.1 Images

Level 1 Image

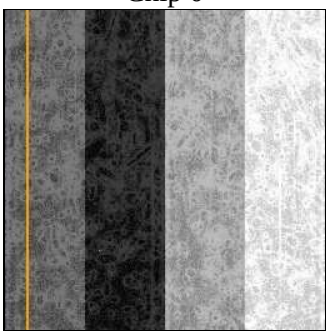


Level 1 Bad Events

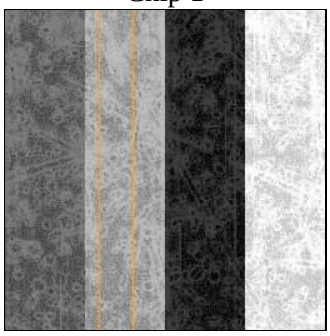


2.1.2 Bias

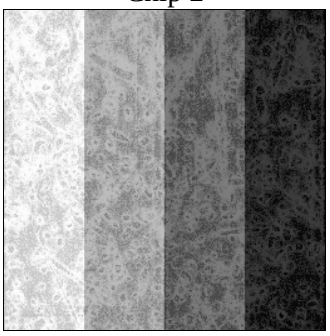
Chip 0



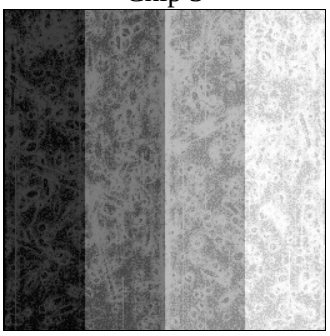
Chip 1



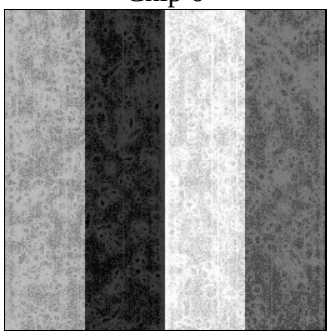
Chip 2



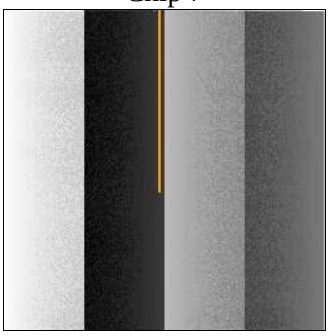
Chip 3



Chip 6



Chip 7



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.1.1	ASCDS version number
caldbver	4.1.4	
date	2009-11-19T23:17:55	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	4430.4786879867	Sum of GTIs [s]
ontime0	1712.635831207	Sum of GTIs [s]
ontime1	1750.160316743	Sum of GTIs [s]
ontime2	1621.8046609685	Sum of GTIs [s]
ontime3	1678.8574864641	Sum of GTIs [s]
ontime6	1827.9452768937	Sum of GTIs [s]
ontime7	4430.4786879867	Sum of GTIs [s]
l1events	1409749	Number of level 1 events

2.1.4 Events

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
level 1 events	182458	184891	173422	180867	201523	486588
rejected events	27410	26275	26707	27787	32398	52438
rejected %	15%	14%	15%	15%	16%	10%

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
grade 0 events	60458	60683	48863	52308	47596	78648
	33%	32%	28%	28%	23%	16%
grade 1 events	276	249	223	214	192	203
	0%	0%	0%	0%	0%	0%
grade 2 events	56251	58327	62859	64524	79552	122770
	30%	31%	36%	35%	39%	25%
grade 3 events	6493	6457	5104	5399	4835	37993
	3%	3%	2%	2%	2%	7%
grade 4 events	6454	6571	5113	5461	4920	34240
	3%	3%	2%	3%	2%	7%
grade 5 events	1535	1595	1448	1626	1773	7023
	0%	0%	0%	0%	0%	1%
grade 6 events	26896	28077	26301	26872	33724	164539
	14%	15%	15%	14%	16%	33%
grade 7 events	24095	22932	23511	24463	28931	41172
	13%	12%	13%	13%	14%	8%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	0	112.1456379905274
Pointing Dec	0	80.02731832229296
Pointing Roll	0.0	77.92138780399969
SIM focus pos (mm)	-0.782348	-1.041718744158295
SIM defocus (mm)	0	0.4916178952460017
SIM translation stage pos (mm)	-233.592463	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	55489068.904	55489068.13644
Observation start date	1999-10-05T05:37:49	1999-10-05T05:37:48
Observation end time	55500013.854	55500013.086835
Observation end date	1999-10-05T08:40:14	1999-10-05T08:40:13
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.4304786879867

A.2 Comments

```
The focal plane temperature is approximately -110C during this
observation.
The ACIS CTI correction has not been calibrated at this temperature
because it was early in the mission, and ACIS had not yet been lowered
to the standard -119.7 C. Both front- and back-illuminated chips are
affected. However, a T_GAIN correction has been applied to the BI chip
(ACIS-7) data included here.

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.
```