V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62330 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

Contents

1 Front

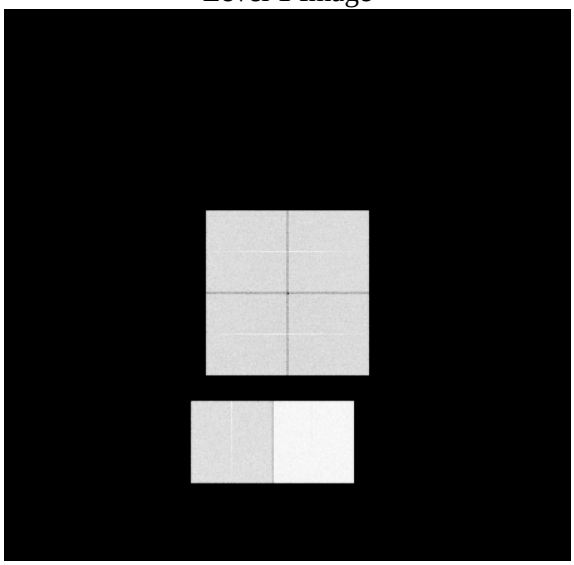
seq_num		Sequence number
obs_id	62330	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	83.815845690496	Nominal RA
dec_nom	-5.3879241249338	Nominal Dec
roll_nom	67.694383598387	Nominal Roll
revision	4	Processing version of data
ontime	4897.9524332732	Sum of GTIs [s]
livetime	4835.9316103702	Livetime [s]
ontime0	1911.6638426036	Sum of GTIs [s]
ontime1	1950.5973128229	Sum of GTIs [s]
ontime2	1840.4430424646	Sum of GTIs [s]
ontime3	1833.7967126593	Sum of GTIs [s]
ontime6	2057.6336831003	Sum of GTIs [s]
ontime7	4897.9524332732	Sum of GTIs [s]
l2events	1315722	Number of level 2 events

2 OBI

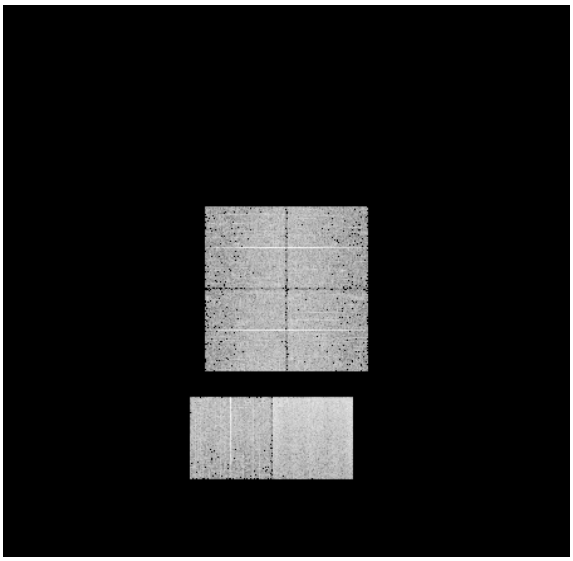
2.1 OBI

2.1.1 Images

Level 1 Image

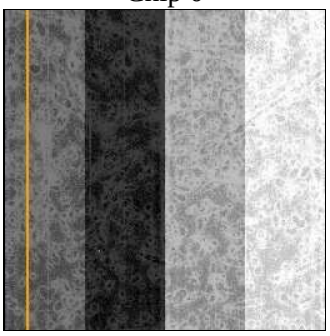


Level 1 Bad Events

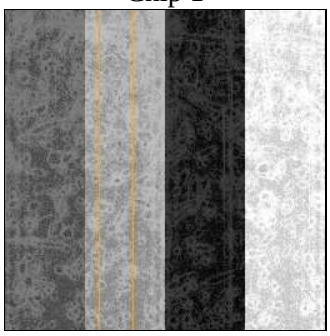


2.1.2 Bias

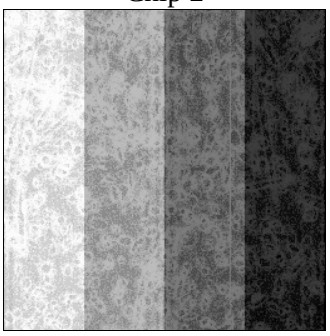
Chip 0



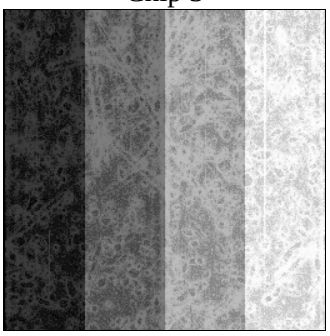
Chip 1



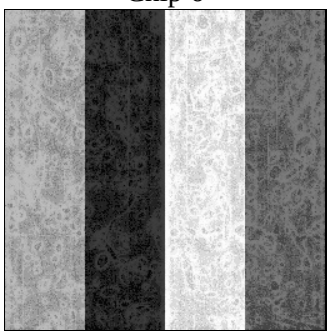
Chip 2



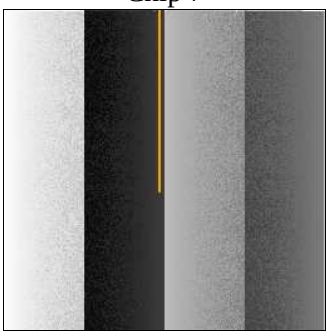
Chip 3



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	2009-11-21T12:09:23	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	4897.9524332732	Sum of GTIs [s]
ontime0	1911.6638426036	Sum of GTIs [s]
ontime1	1950.5973128229	Sum of GTIs [s]
ontime2	1840.4430424646	Sum of GTIs [s]
ontime3	1833.7967126593	Sum of GTIs [s]
ontime6	2057.6336831003	Sum of GTIs [s]
ontime7	4897.9524332732	Sum of GTIs [s]
l1events	1516694	Number of level 1 events

2.1.4 Events

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
level 1 events	196349	200311	191476	190897	220538	517123
rejected events	25947	25616	27421	27587	31919	48726
rejected %	13%	12%	14%	14%	14%	9%

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
grade 0 events	64171	65410	52783	53809	53651	86384
	32%	32%	27%	28%	24%	16%
grade 1 events	277	270	200	213	225	192
	0%	0%	0%	0%	0%	0%
grade 2 events	62939	64896	70788	69352	86759	130833
	32%	32%	36%	36%	39%	25%
grade 3 events	7042	7004	5581	5657	5528	40574
	3%	3%	2%	2%	2%	7%
grade 4 events	6787	6988	5603	5631	5711	36929
	3%	3%	2%	2%	2%	7%
grade 5 events	1599	1675	1623	1690	1761	7293
	0%	0%	0%	0%	0%	1%
grade 6 events	29463	30397	29300	28861	36970	174004
	15%	15%	15%	15%	16%	33%
grade 7 events	24071	23671	25598	25684	29933	40914
	12%	11%	13%	13%	13%	7%

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	83.81584569049605
Pointing Dec	0	-5.387924124933846
Pointing Roll	0.0	67.69438359838738
SIM focus pos (mm)	-0.782348	-0.6828225247311905
SIM defocus (mm)	0	0.8505141146731063
SIM translation stage pos (mm)	-233.592463	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	57789958.238	57789957.469351
Observation start date	1999-10-31T20:45:58	1999-10-31T20:45:57
Observation end time	57835558.44	57835557.670999
Observation end date	1999-11-01T09:25:58	1999-11-01T09:25:57
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	4.8979524332732

A.2 Comments

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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.
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