V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62285 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 25 2009

Contents

1 Front

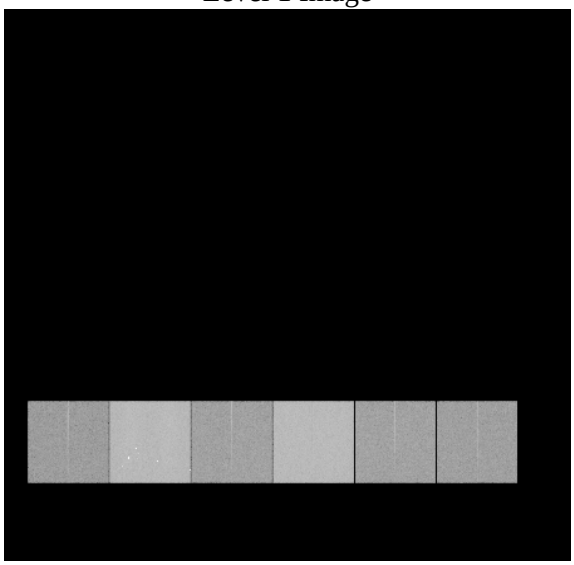
seq_num		Sequence number
obs_id	62285	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	189.98157771455	Nominal RA
dec_nom	-33.954662216874	Nominal Dec
roll_nom	85.500684077666	Nominal Roll
revision	4	Processing version of data
ontime	2651.1645102575	Sum of GTIs [s]
livetime	2617.593868889	Livetime [s]
ontime4	998.23905503005	Sum of GTIs [s]
ontime5	2845.6248752475	Sum of GTIs [s]
ontime6	1124.6395254806	Sum of GTIs [s]
ontime7	2651.1645102575	Sum of GTIs [s]
ontime8	1124.6395254806	Sum of GTIs [s]
ontime9	1098.225014843	Sum of GTIs [s]
l2events	892554	Number of level 2 events

2 OBI

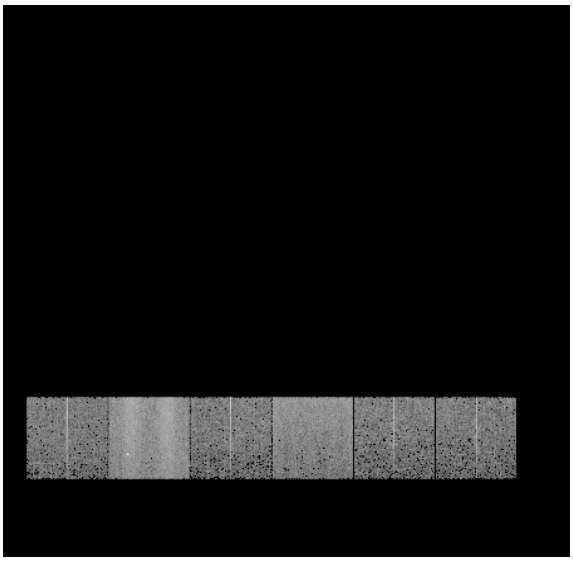
2.1 OBI

2.1.1 Images

Level 1 Image

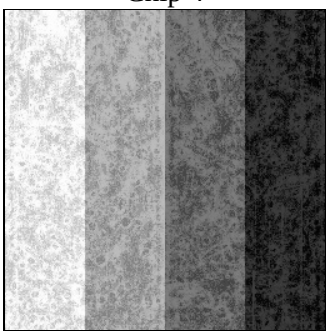


Level 1 Bad Events

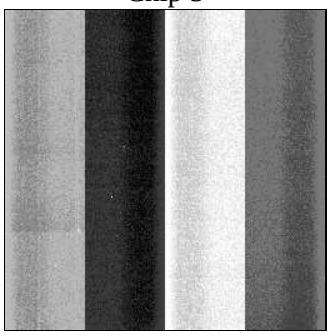


2.1.2 Bias

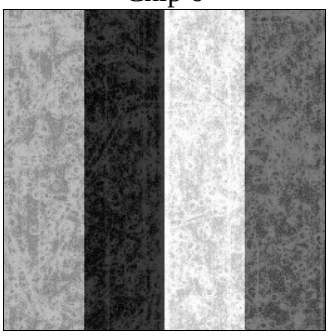
Chip 4



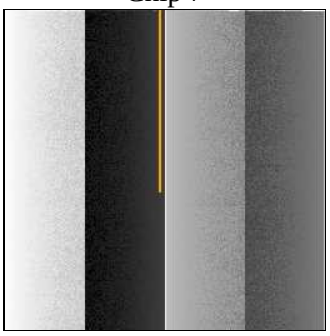
Chip 5



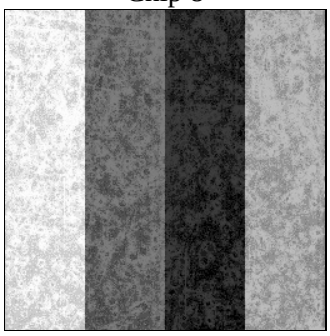
Chip 6



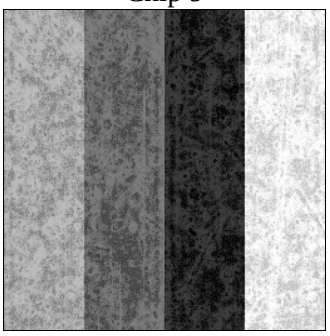
Chip 7



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	2009-11-25T14:23:31	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	2651.1645102575	Sum of GTIs [s]
ontime4	998.23905503005	Sum of GTIs [s]
ontime5	2845.6248752475	Sum of GTIs [s]
ontime6	1124.6395254806	Sum of GTIs [s]
ontime7	2651.1645102575	Sum of GTIs [s]
ontime8	1124.6395254806	Sum of GTIs [s]
ontime9	1098.225014843	Sum of GTIs [s]
l1events	1065131	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	107020	289108	126999	293688	129518	118798
rejected events	19376	48970	19522	31118	19545	17941
rejected %	18%	16%	15%	10%	15%	15%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	19475	26017	28878	46125	37844	30432
	18%	8%	22%	15%	29%	25%
grade 1 events	115	171	143	103	183	156
	0%	0%	0%	0%	0%	0%
grade 2 events	47822	92468	50734	74412	43905	44486
	44%	31%	39%	25%	33%	37%
grade 3 events	2116	12204	3095	22073	4024	3216
	1%	4%	2%	7%	3%	2%
grade 4 events	1956	10670	2929	19886	4084	3186
	1%	3%	2%	6%	3%	2%
grade 5 events	975	5011	1055	4057	1144	1065
	0%	1%	0%	1%	0%	0%
grade 6 events	16581	99339	21841	100690	20424	19537
	15%	34%	17%	34%	15%	16%
grade 7 events	17980	43228	18324	26342	17910	16720
	16%	14%	14%	8%	13%	14%

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	189.9815777145533
Pointing Dec	0	-33.95466221687387
Pointing Roll	0.0	85.50068407766602
SIM focus pos (mm)	-0.684267	-0.7809083437167272
SIM defocus (mm)	0	0.7524282956875696
SIM translation stage pos (mm)	-190.132523	250.4635187648994
SIM translation stage offset (mm)	0	-0.007540371344731511
Observation start time	60802060.246879	60802059.478182
Observation start date	1999-12-05T17:27:40	1999-12-05T17:27:39
Observation end time	60809360.297145	60809359.528446
Observation end date	1999-12-05T19:29:20	1999-12-05T19:29:19
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	3.2	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)	2010.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.6511645102575

A.2 Comments

The focal plane temperature is approximately -110C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

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 chips (ACIS-5 and 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.