V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62279 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 25 2009

Contents

1 Front

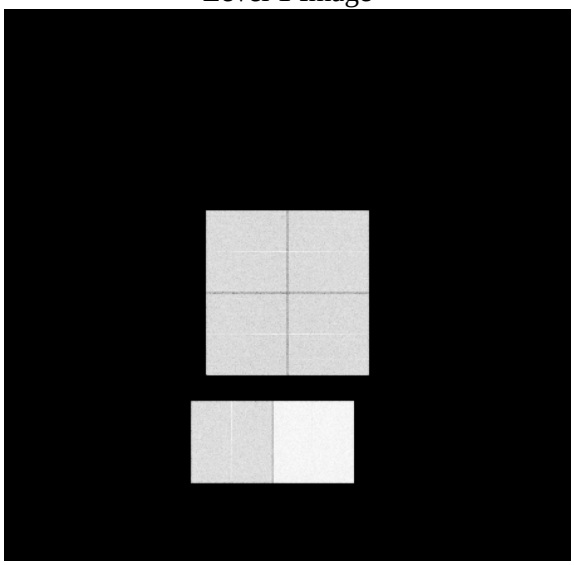
seq_num		Sequence number
obs_id	62279	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	163.16292395835	Nominal RA
dec_nom	57.523623205788	Nominal Dec
roll_nom	82.587266676057	Nominal Roll
revision	4	Processing version of data
ontime	3487.6730151176	Sum of GTIs [s]
livetime	3443.5099993757	Livetime [s]
ontime0	1373.5946917608	Sum of GTIs [s]
ontime1	1393.0819718018	Sum of GTIs [s]
ontime2	1321.8200818077	Sum of GTIs [s]
ontime3	1347.5842119306	Sum of GTIs [s]
ontime6	1465.2829808965	Sum of GTIs [s]
ontime7	3487.6730151176	Sum of GTIs [s]
l2events	916743	Number of level 2 events

2 OBI

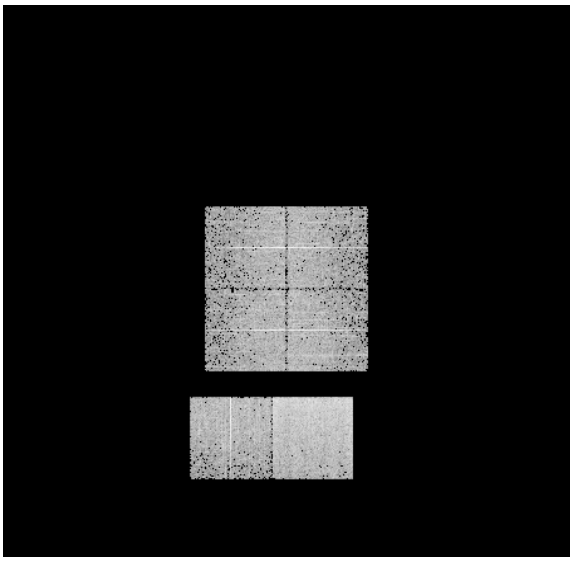
2.1 OBI

2.1.1 Images

Level 1 Image

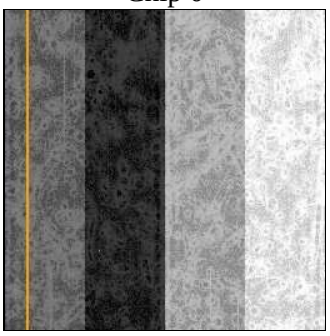


Level 1 Bad Events

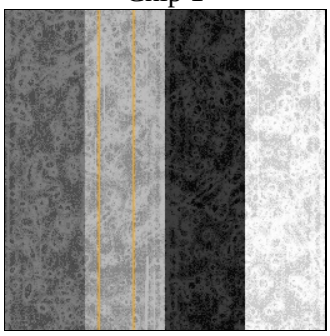


2.1.2 Bias

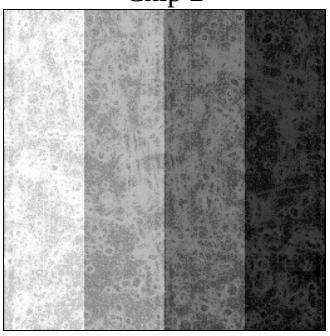
Chip 0



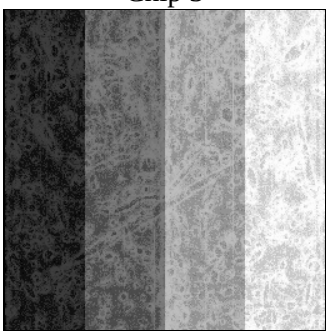
Chip 1



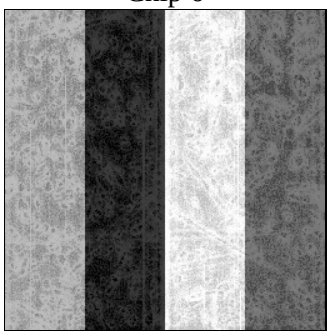
Chip 2



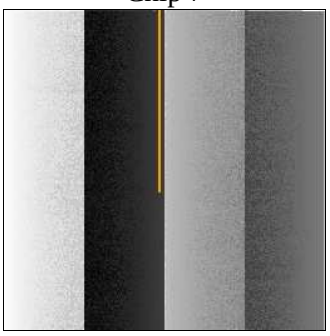
Chip 3



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	2009-11-25T14:36:15	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	3487.6730151176	Sum of GTIs [s]
ontime0	1373.5946917608	Sum of GTIs [s]
ontime1	1393.0819718018	Sum of GTIs [s]
ontime2	1321.8200818077	Sum of GTIs [s]
ontime3	1347.5842119306	Sum of GTIs [s]
ontime6	1465.2829808965	Sum of GTIs [s]
ontime7	3487.6730151176	Sum of GTIs [s]
l1events	1059194	Number of level 1 events

2.1.4 Events

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
level 1 events	137804	139806	133498	136800	152317	358969
rejected events	18417	18555	18972	20127	22166	34845
rejected %	13%	13%	14%	14%	14%	9%

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
grade 0 events	44507	45202	36227	37952	36357	58921
	32%	32%	27%	27%	23%	16%
grade 1 events	196	217	149	172	133	136
	0%	0%	0%	0%	0%	0%
grade 2 events	44685	45019	49919	49976	60766	90866
	32%	32%	37%	36%	39%	25%
grade 3 events	4766	4890	3751	3979	3813	27909
	3%	3%	2%	2%	2%	7%
grade 4 events	4658	4920	3646	3945	3770	25636
	3%	3%	2%	2%	2%	7%
grade 5 events	1214	1187	1164	1214	1268	5019
	0%	0%	0%	0%	0%	1%
grade 6 events	20771	21220	20983	20821	25740	121094
	15%	15%	15%	15%	16%	33%
grade 7 events	17007	17151	17659	18741	20470	29388
	12%	12%	13%	13%	13%	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	163.1629239583463
Pointing Dec	0	57.52362320578786
Pointing Roll	0.0	82.58726667605742
SIM focus pos (mm)	-0.782348	-1.038866356238299
SIM defocus (mm)	0	0.4944702831659975
SIM translation stage pos (mm)	-233.592463	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	61039866.405556	61039865.636788
Observation start date	1999-12-08T11:31:06	1999-12-08T11:31:05
Observation end time	61047166.455822	61047165.687052
Observation end date	1999-12-08T13:32:46	1999-12-08T13:32:45
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	3.4876730151176

A.2 Comments

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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.
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