V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62275 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 27 2009

Contents

1 Front

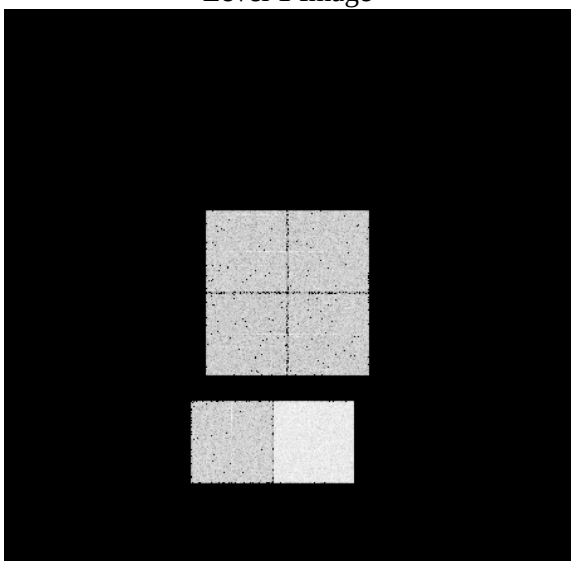
seq_num		Sequence number
obs_id	62275	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	0.032123189299832	Nominal RA
dec_nom	59.945723322836	Nominal Dec
roll_nom	270.88027070083	Nominal Roll
revision	4	Processing version of data
ontime	368.2918651849	Sum of GTIs [s]
livetime	363.62833182919	Livetime [s]
ontime0	139.61637177318	Sum of GTIs [s]
ontime1	139.36472027004	Sum of GTIs [s]
ontime2	132.88264025748	Sum of GTIs [s]
ontime3	133.21637175977	Sum of GTIs [s]
ontime6	158.81096030772	Sum of GTIs [s]
ontime7	368.2918651849	Sum of GTIs [s]
l2events	94250	Number of level 2 events

2 OBI

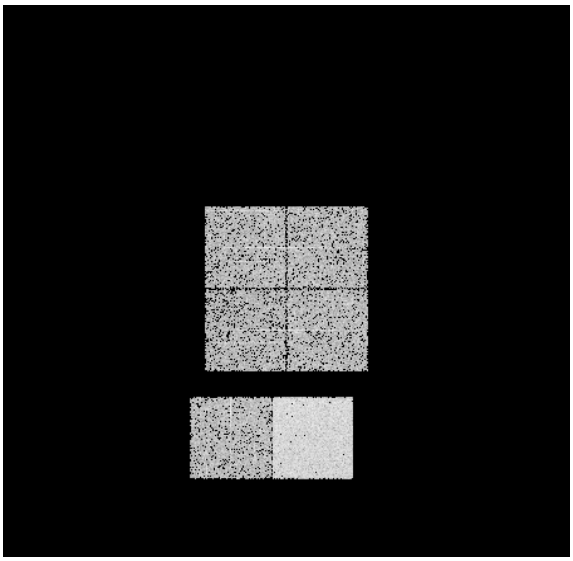
2.1 OBI

2.1.1 Images

Level 1 Image

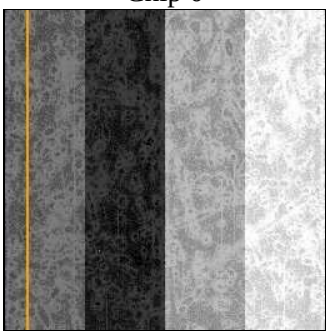


Level 1 Bad Events

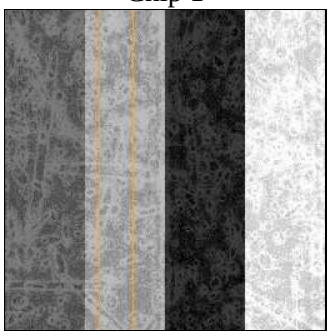


2.1.2 Bias

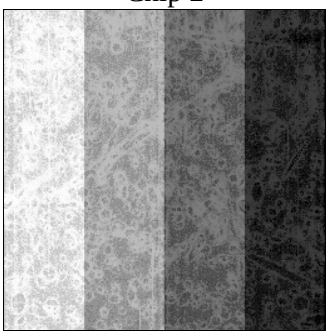
Chip 0



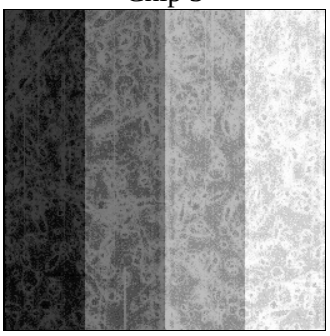
Chip 1



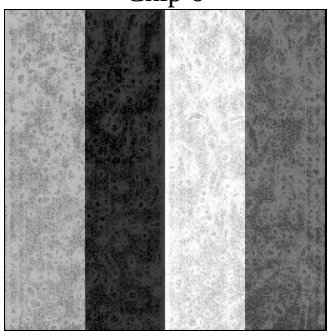
Chip 2



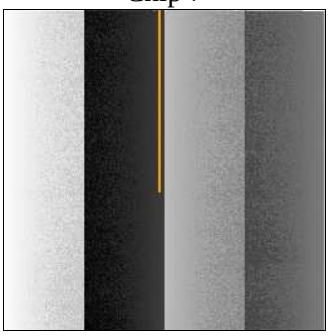
Chip 3



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	2009-11-27T23:43:54	Date and time of file creation
revision	4	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	368.2918651849	Sum of GTIs [s]
ontime0	139.61637177318	Sum of GTIs [s]
ontime1	139.36472027004	Sum of GTIs [s]
ontime2	132.88264025748	Sum of GTIs [s]
ontime3	133.21637175977	Sum of GTIs [s]
ontime6	158.81096030772	Sum of GTIs [s]
ontime7	368.2918651849	Sum of GTIs [s]
l1events	168347	Number of level 1 events

2.1.4 Events

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
level 1 events	22055	21798	20437	21386	24278	58393
rejected events	9964	9634	8728	9982	10434	24451
rejected %	45%	44%	42%	46%	42%	41%

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
grade 0 events	6951	6932	5342	5999	5769	9428
	31%	31%	26%	28%	23%	16%
grade 1 events	31	29	28	34	16	15
	0%	0%	0%	0%	0%	0%
grade 2 events	7187	7170	7806	7827	9708	14904
	32%	32%	38%	36%	39%	25%
grade 3 events	781	729	532	624	594	4509
	3%	3%	2%	2%	2%	7%
grade 4 events	729	740	582	654	579	4105
	3%	3%	2%	3%	2%	7%
grade 5 events	172	178	142	182	205	826
	0%	0%	0%	0%	0%	1%
grade 6 events	3339	3400	3193	3277	4092	19784
	15%	15%	15%	15%	16%	33%
grade 7 events	2865	2620	2812	2789	3315	4822
	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	0.03212318929983228
Pointing Dec	0	59.94572332283581
Pointing Roll	0.0	270.8802707008302
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	61270157.26357	61276351.595348
Observation start date	1999-12-11T03:29:17	1999-12-11T05:12:31
Observation end time	61277457.313834	61277456.545388
Observation end date	1999-12-11T05:30:57	1999-12-11T05:30:56
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	0.3682918651849

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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