V&V Reference Report
L2 ASCDS Version : 8.1.2

Observation 62199 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 4 2009

Contents

1 Front

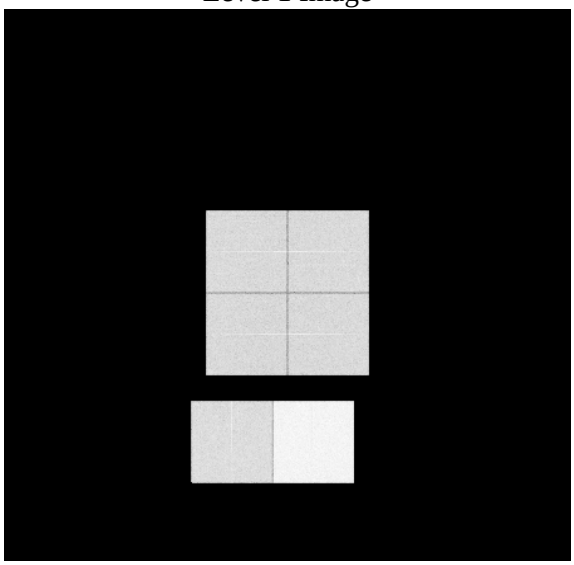
seq_num		Sequence number
obs_id	62199	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	350.69864217749	Nominal RA
dec_nom	58.876115274919	Nominal Dec
roll_nom	322.82367634309	Nominal Roll
revision	3	Processing version of data
ontime	3584.566707015	Sum of GTIs [s]
livetime	3539.1767650039	Livetime [s]
ontime0	1432.5382763743	Sum of GTIs [s]
ontime1	1429.2972363681	Sum of GTIs [s]
ontime2	1354.7533162236	Sum of GTIs [s]
ontime3	1403.368866466	Sum of GTIs [s]
ontime6	1536.2513970062	Sum of GTIs [s]
ontime7	3584.566707015	Sum of GTIs [s]
l2events	912629	Number of level 2 events

2 OBI

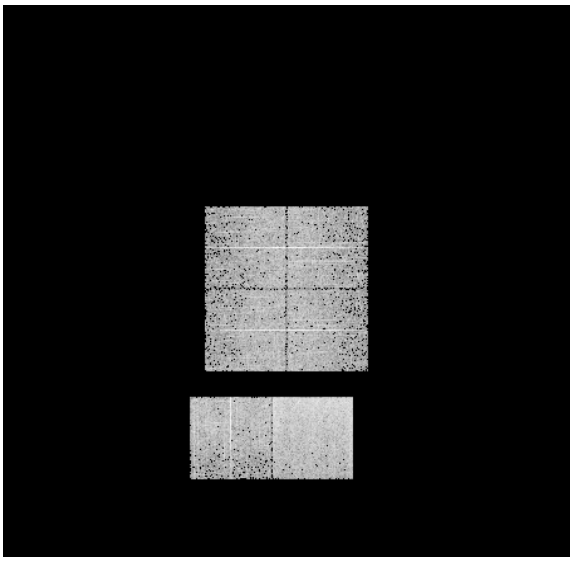
2.1 OBI

2.1.1 Images

Level 1 Image

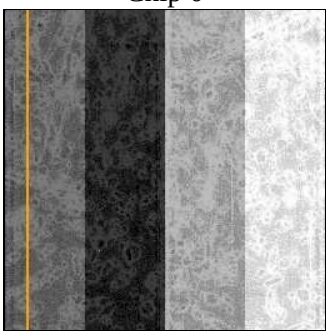


Level 1 Bad Events

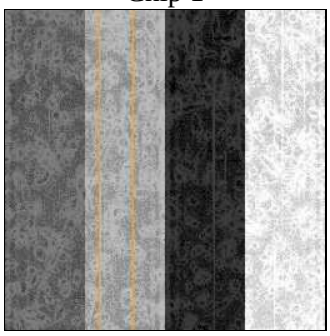


2.1.2 Bias

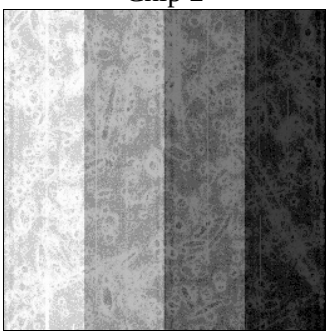
Chip 0



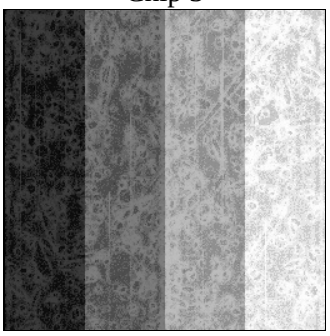
Chip 1



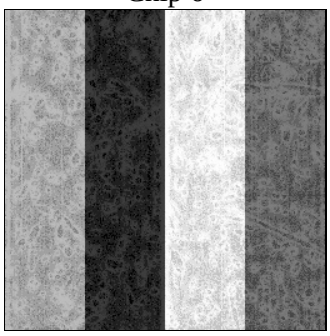
Chip 2



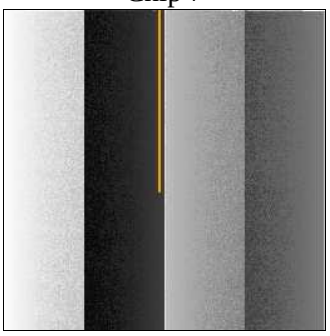
Chip 3



Chip 6



Chip 7



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.1.2	ASCDS version number
caldbver	4.1.4	
date	2009-12-05T00:25:31	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	3584.566707015	Sum of GTIs [s]
ontime0	1432.5382763743	Sum of GTIs [s]
ontime1	1429.2972363681	Sum of GTIs [s]
ontime2	1354.7533162236	Sum of GTIs [s]
ontime3	1403.368866466	Sum of GTIs [s]
ontime6	1536.2513970062	Sum of GTIs [s]
ontime7	3584.566707015	Sum of GTIs [s]
l1events	1055418	Number of level 1 events

2.1.4 Events

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
level 1 events	137731	138879	133151	136286	154849	354522
rejected events	18558	19053	19848	19168	22963	33664
rejected %	13%	13%	14%	14%	14%	9%

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
grade 0 events	43341	43423	35272	38433	36887	59497
	31%	31%	26%	28%	23%	16%
grade 1 events	166	188	128	153	159	161
	0%	0%	0%	0%	0%	0%
grade 2 events	45646	46085	50708	50231	62193	89922
	33%	33%	38%	36%	40%	25%
grade 3 events	4613	4806	3689	3974	3729	27801
	3%	3%	2%	2%	2%	7%
grade 4 events	4642	4799	3728	3916	3748	25503
	3%	3%	2%	2%	2%	7%
grade 5 events	1222	1104	1109	1175	1232	4843
	0%	0%	0%	0%	0%	1%
grade 6 events	21223	21182	20693	20815	25959	118770
	15%	15%	15%	15%	16%	33%
grade 7 events	16878	17292	17824	17589	20942	28025
	12%	12%	13%	12%	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	350.6986421774855
Pointing Dec	0	58.87611527491943
Pointing Roll	0.0	322.8236763430896
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	65552857.519011	65552856.750492
Observation start date	2000-01-29T17:07:38	2000-01-29T17:07:36
Observation end time	65560157.569277	65560156.800758
Observation end date	2000-01-29T19:09:18	2000-01-29T19:09:16
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.584566707015

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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