V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62256 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 26 2009

Contents

1 Front

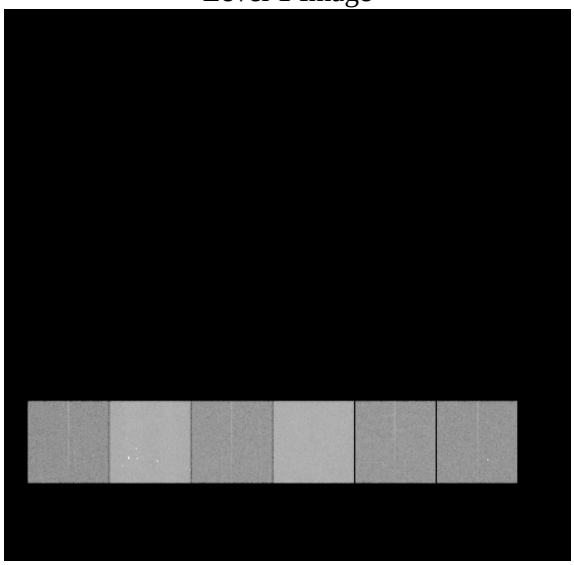
seq_num		Sequence number
obs_id	62256	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	90.051416038268	Nominal RA
dec_nom	-59.98524293067	Nominal Dec
roll_nom	358.70974858141	Nominal Roll
revision	4	Processing version of data
ontime	2864.9450947195	Sum of GTIs [s]
livetime	2828.6674348674	Livetime [s]
ontime4	1114.6667448655	Sum of GTIs [s]
ontime5	3052.8804853037	Sum of GTIs [s]
ontime6	1231.3851951584	Sum of GTIs [s]
ontime7	2864.9450947195	Sum of GTIs [s]
ontime8	1260.7631162405	Sum of GTIs [s]
ontime9	1202.3389551044	Sum of GTIs [s]
l2events	903722	Number of level 2 events

2 OBI

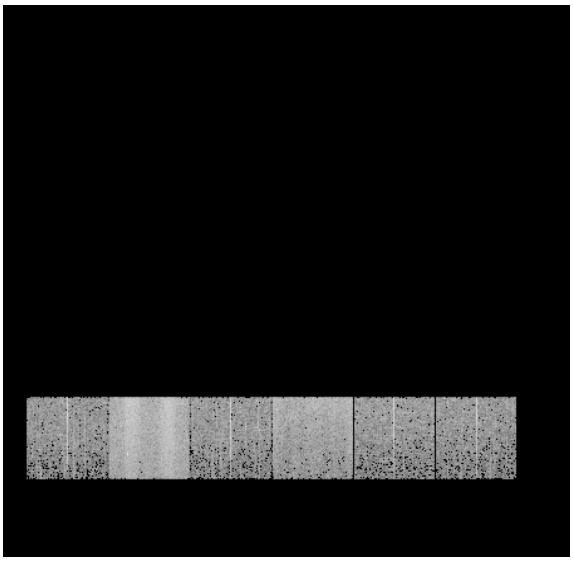
2.1 OBI

2.1.1 Images

Level 1 Image

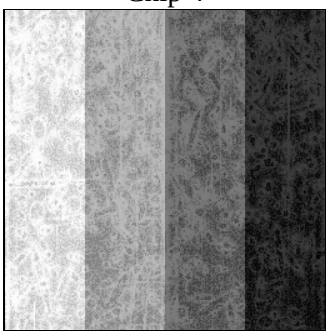


Level 1 Bad Events

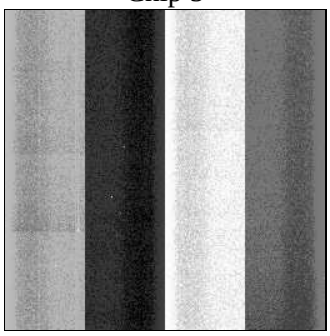


2.1.2 Bias

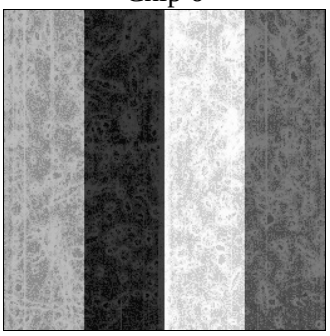
Chip 4



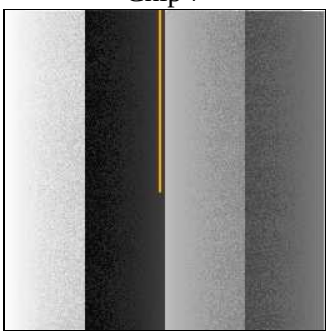
Chip 5



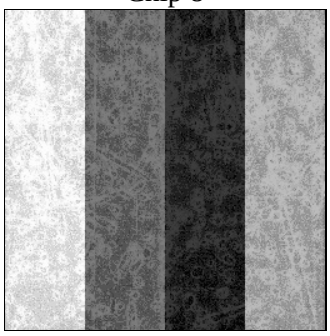
Chip 6



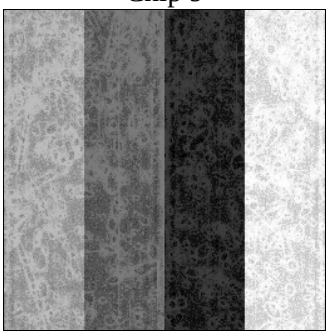
Chip 7



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	2009-11-26T10:07:36	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	2864.9450947195	Sum of GTIs [s]
ontime4	1114.6667448655	Sum of GTIs [s]
ontime5	3052.8804853037	Sum of GTIs [s]
ontime6	1231.3851951584	Sum of GTIs [s]
ontime7	2864.9450947195	Sum of GTIs [s]
ontime8	1260.7631162405	Sum of GTIs [s]
ontime9	1202.3389551044	Sum of GTIs [s]
l1events	1063686	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	107398	286843	127058	291213	131500	119674
rejected events	17270	46658	18233	28352	18313	17025
rejected %	16%	16%	14%	9%	13%	14%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	20403	26995	30132	47805	39830	31859
	18%	9%	23%	16%	30%	26%
grade 1 events	94	205	133	121	160	124
	0%	0%	0%	0%	0%	0%
grade 2 events	49054	93542	51086	73483	44833	45328
	45%	32%	40%	25%	34%	37%
grade 3 events	2088	12557	3202	22509	4181	3286
	1%	4%	2%	7%	3%	2%
grade 4 events	1968	10710	3158	20554	4310	3282
	1%	3%	2%	7%	3%	2%
grade 5 events	909	4940	1033	4206	1115	1026
	0%	1%	0%	1%	0%	0%
grade 6 events	16615	96381	21247	98510	20033	18894
	15%	33%	16%	33%	15%	15%
grade 7 events	16267	41513	17067	24025	17038	15875
	15%	14%	13%	8%	12%	13%

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	90.05141603826769
Pointing Dec	0	-59.9852429306703
Pointing Roll	0.0	358.7097485814103
SIM focus pos (mm)	-0.684267	-0.7809083437167272
SIM defocus (mm)	0	0.7524282956875696
SIM translation stage pos (mm)	-190.132523	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	62362028.303	62362027.534659
Observation start date	1999-12-23T18:47:08	1999-12-23T18:47:07
Observation end time	62403268.155	62403267.386153
Observation end date	1999-12-24T06:14:28	1999-12-24T06:14:27
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.01.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8649450947195

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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