V&V Reference Report
L2 ASCDS Version : 8.2.1

Observation 62447 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jan 29 2010

Contents

1 Front

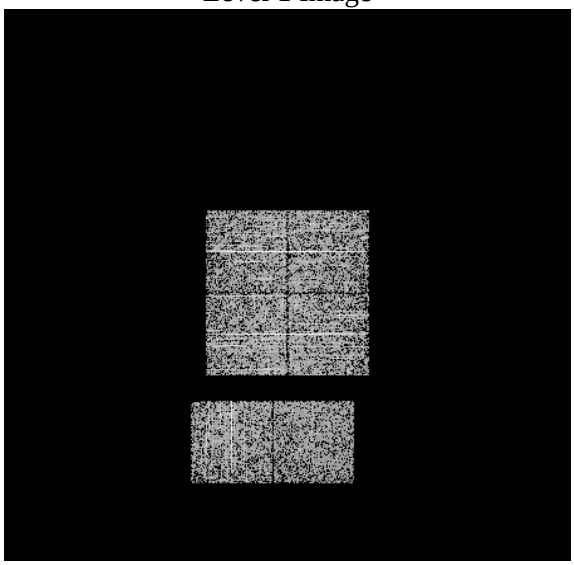
seq_num		Sequence number
obs_id	62447	Observation id
title	ACIS-012367 diagnostics; clock out ACIS charge	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	12.408443419124	Nominal RA
dec_nom	73.006867451852	Nominal Dec
roll_nom	136.6441830961	Nominal Roll
revision	3	Processing version of data
ontime	1352.9994842783	Sum of GTIs [s]
livetime	1336.3797793855	Livetime [s]
ontime0	1352.9999987781	Sum of GTIs [s]
ontime1	1352.9999987781	Sum of GTIs [s]
ontime2	1352.9798633605	Sum of GTIs [s]
ontime3	1352.9388233647	Sum of GTIs [s]
ontime6	1352.8977833614	Sum of GTIs [s]
ontime7	1352.9994842783	Sum of GTIs [s]
l2events	6271	Number of level 2 events

2 OBI

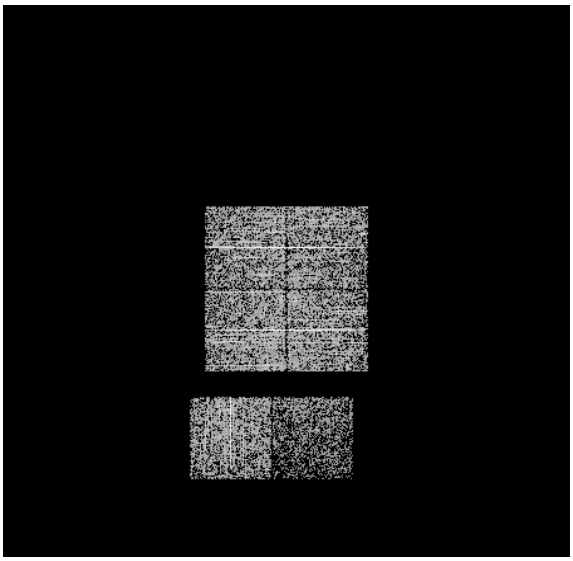
2.1 OBI

2.1.1 Images

Level 1 Image

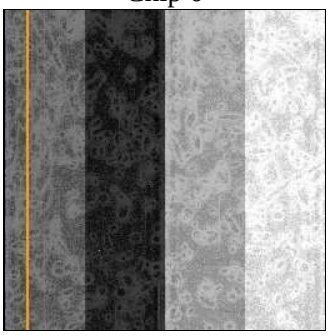


Level 1 Bad Events

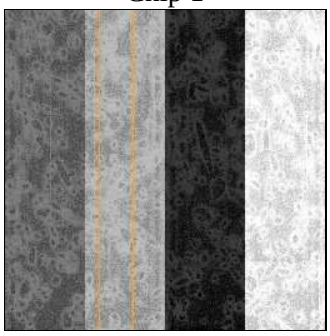


2.1.2 Bias

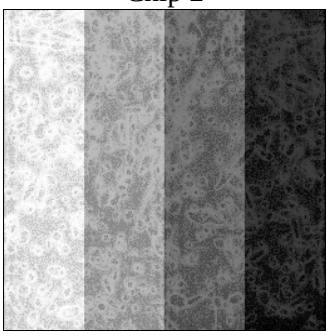
Chip 0



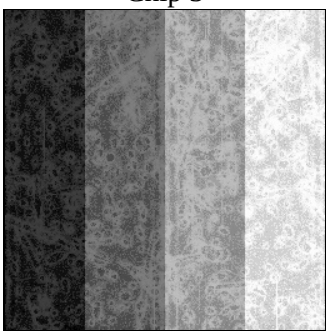
Chip 1



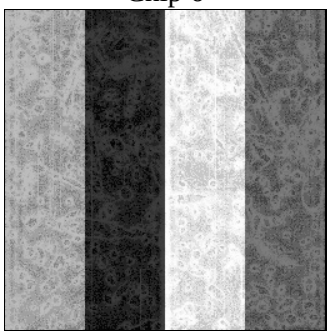
Chip 2



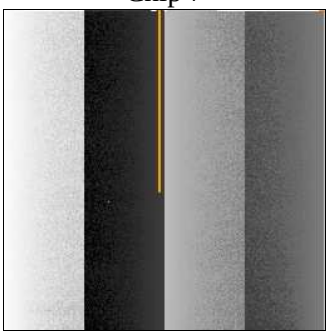
Chip 3



Chip 6



Chip 7



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.2.1	ASCDS version number
caldbver	4.1.5	
date	2010-01-30T00:02:13	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	1352.9994842783	Sum of GTIs [s]
ontime0	1352.9999987781	Sum of GTIs [s]
ontime1	1352.9999987781	Sum of GTIs [s]
ontime2	1352.9798633605	Sum of GTIs [s]
ontime3	1352.9388233647	Sum of GTIs [s]
ontime6	1352.8977833614	Sum of GTIs [s]
ontime7	1352.9994842783	Sum of GTIs [s]
l1events	60876	Number of level 1 events

2.1.4 Events

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
level 1 events	10526	10074	11988	11291	10318	6679
rejected events	9801	9290	11295	10602	9599	3250
rejected %	93%	92%	94%	93%	93%	48%

	ccd 0	**ccd 1**	**ccd 2**	**ccd 3**	**ccd 6**	**ccd 7**
grade 0 events	235	251	275	233	262	353
	2%	2%	2%	2%	2%	5%
grade 1 events	3	3	5	2	6	4
	0%	0%	0%	0%	0%	0%
grade 2 events	154	152	143	162	144	563
	1%	1%	1%	1%	1%	8%
grade 3 events	94	100	81	86	88	367
	0%	0%	0%	0%	0%	5%
grade 4 events	105	117	81	84	94	323
	0%	1%	0%	0%	0%	4%
grade 5 events	159	162	138	164	180	517
	1%	1%	1%	1%	1%	7%
grade 6 events	137	164	113	124	131	1823
	1%	1%	0%	1%	1%	27%
grade 7 events	9639	9125	11152	10436	9413	2729
	91%	90%	93%	92%	91%	40%

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	12.40844341912375
Pointing Dec	0	73.00686745185202
Pointing Roll	0.0	136.6441830961037
SIM focus pos (mm)	-0.782348	-0.865731118321573
SIM defocus (mm)	0	-0.1814636570216768
SIM translation stage pos (mm)	-233.592463	-190.1199515274594
SIM translation stage offset (mm)	0	-0.012571055548392
Observation start time	51490760.688	51490760.287407
Observation start date	1999-08-19T22:59:21	1999-08-19T22:59:20
Observation end time	51494645.282	51494645.037547
Observation end date	1999-08-20T00:04:05	1999-08-20T00:04:05
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	3.3

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.3529994842783

A.2 Comments

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The focal plane temperature is approximately -100C during this
observation.
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 chip
(ACIS-7) data included here.
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