V&V Reference Report
L2 ASCDS Version : 8.3.2

Observation 62740 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Aug 15 2010

Contents

1 Front

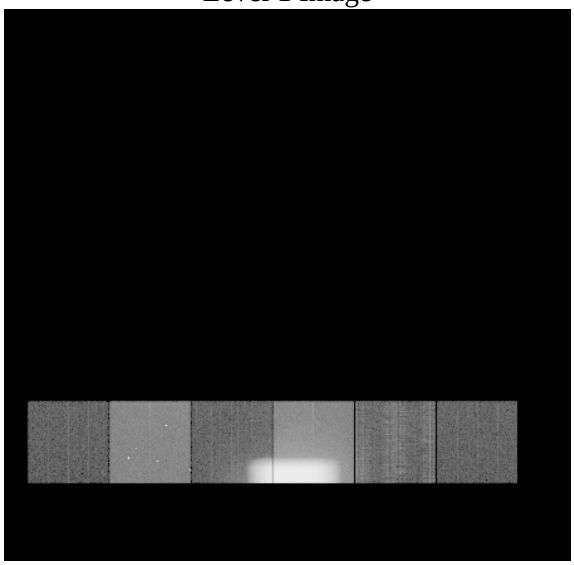
seq_num	0	Sequence number
obs_id	62740	Observation id
title	ACIS-S, no g7 events, internal cal	Proposal title
observer	CHANDRA orbital activation and checkout	Principal investigator
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	195.44711058199	Nominal RA
dec_nom	-0.34327537520472	Nominal Dec
roll_nom	250.24628379794	Nominal Roll
revision	4	Processing version of data
ontime	15874.661607638	Sum of GTIs [s]
livetime	15679.663609297	Livetime [s]
ontime4	15650.819429196	Sum of GTIs [s]
ontime5	16008.299985543	Sum of GTIs [s]
ontime6	15687.570320442	Sum of GTIs [s]
ontime7	15874.661607638	Sum of GTIs [s]
ontime8	15684.229440115	Sum of GTIs [s]
ontime9	15670.865549475	Sum of GTIs [s]
l2events	1406551	Number of level 2 events

2 OBI

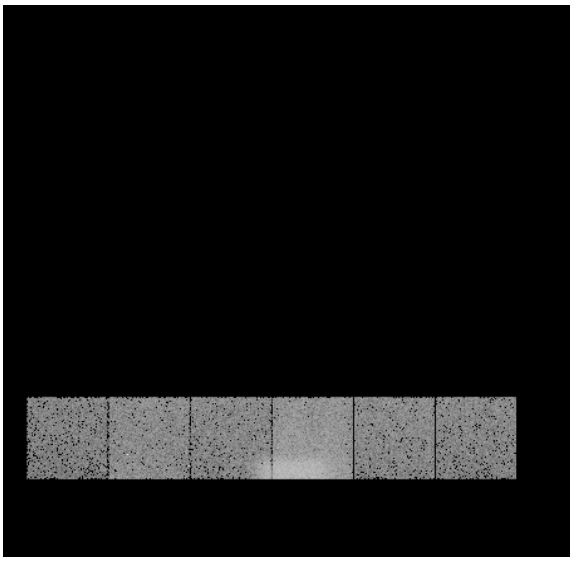
2.1 OBI

2.1.1 Images

Level 1 Image

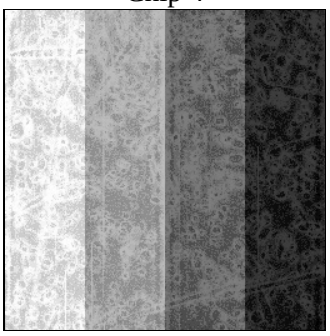


Level 1 Bad Events

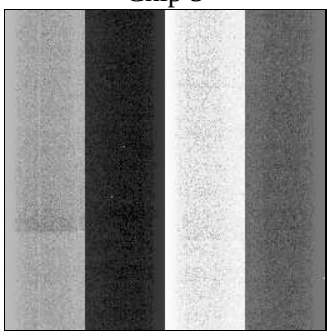


2.1.2 Bias

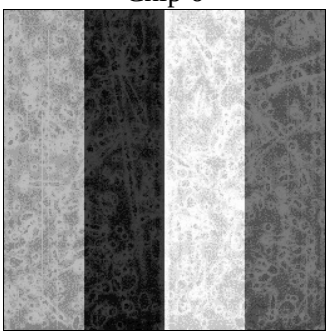
Chip 4



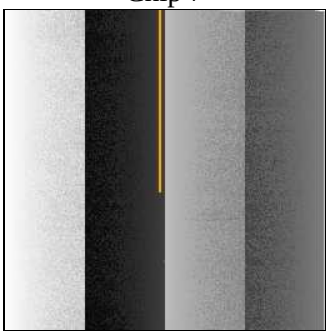
Chip 5



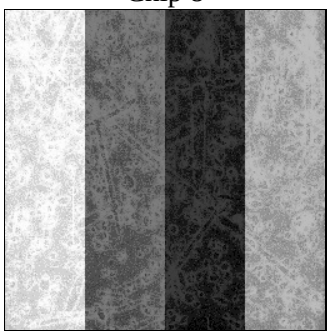
Chip 6



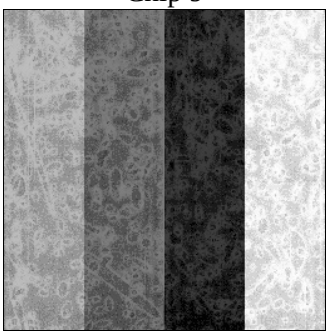
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.3.2	ASCDS version number
caldbver	4.3.0	
date	2010-08-15T13:00:53	Date and time of file creation
revision	4	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	15874.661607638	Sum of GTIs [s]
ontime4	15650.819429196	Sum of GTIs [s]
ontime5	16008.299985543	Sum of GTIs [s]
ontime6	15687.570320442	Sum of GTIs [s]
ontime7	15874.661607638	Sum of GTIs [s]
ontime8	15684.229440115	Sum of GTIs [s]
ontime9	15670.865549475	Sum of GTIs [s]
l1events	1541443	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	39826	154535	223586	1011860	69046	42590
rejected events	10646	15706	14752	28368	13821	12487
rejected %	26%	10%	6%	2%	20%	29%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	7319	8821	84772	200678	13874	7150
	18%	5%	37%	19%	20%	16%
grade 1 events	92	540	651	932	133	67
	0%	0%	0%	0%	0%	0%
grade 2 events	6792	33177	39255	225908	12219	6240
	17%	21%	17%	22%	17%	14%
grade 3 events	2684	2359	15327	80070	5706	2952
	6%	1%	6%	7%	8%	6%
grade 4 events	2497	2309	15270	79539	5032	2671
	6%	1%	6%	7%	7%	6%
grade 5 events	10554	15166	14101	27436	13688	12420
	26%	9%	6%	2%	19%	29%
grade 6 events	9888	92163	54210	397297	18394	11090
	24%	59%	24%	39%	26%	26%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

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	195.4471105819879
Pointing Dec	0	-0.3432753752047186
Pointing Roll	0.0	250.2462837979353
SIM focus pos (mm)	-0.684267	0.255451383487682
SIM defocus (mm)	0	0.9397188447875782
SIM translation stage pos (mm)	-190.132523	-190.1325231039672
SIM translation stage offset (mm)	0	5.209593894051068e-07
Observation start time	49886598.538	49886594.797235
Observation start date	1999-08-01T09:23:19	1999-08-01T09:23:14
Observation end time	49904132.884	49904132.547834
Observation end date	1999-08-01T14:15:33	1999-08-01T14:15:32
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)	2010.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.874661607638

A.2 Comments

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This ACIS internal calibration observation was acquired before the ACIS
door was open. A reflection of the door is visible in the image.
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Focal plane temperature is warmer than -118.7 C degrees during this
observation. The ACIS spectral response calibration for the
front-illuminated chips is less accurate at these warmer temperatures
than it is at -119.7 C. The back-illuminated chips are not affected at
the focal plane temperatures recorded for this observation.
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