V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62361 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 19 2009

Contents

1 Front

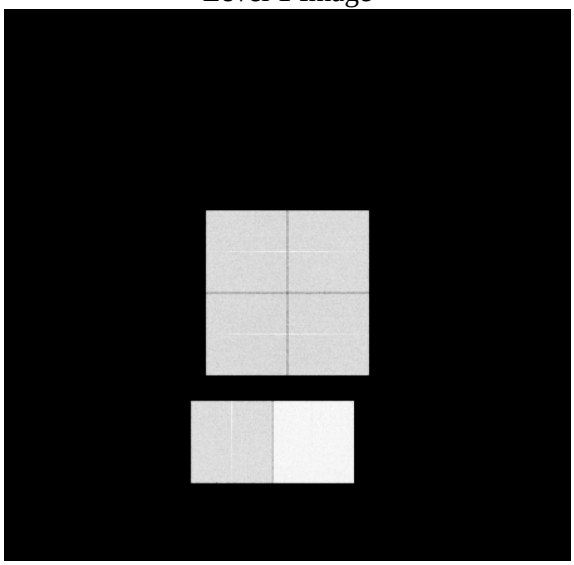
seq_num		Sequence number
obs_id	62361	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	112.13788272502	Nominal RA
dec_nom	80.026953574876	Nominal Dec
roll_nom	80.159342980396	Nominal Roll
revision	4	Processing version of data
ontime	4849.2690706551	Sum of GTIs [s]
livetime	4787.8647058032	Livetime [s]
ontime0	1857.1145969555	Sum of GTIs [s]
ontime1	1896.0070470944	Sum of GTIs [s]
ontime2	1759.8835064843	Sum of GTIs [s]
ontime3	1821.46312695	Sum of GTIs [s]
ontime6	1983.5150474757	Sum of GTIs [s]
ontime7	4849.2690706551	Sum of GTIs [s]
l2events	1309774	Number of level 2 events

2 OBI

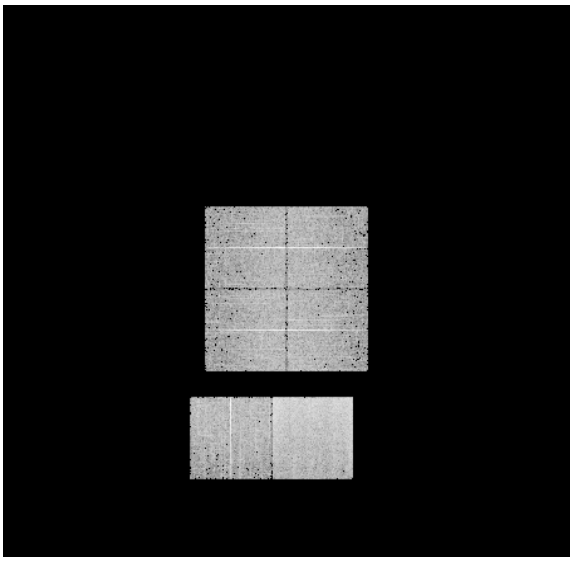
2.1 OBI

2.1.1 Images

Level 1 Image

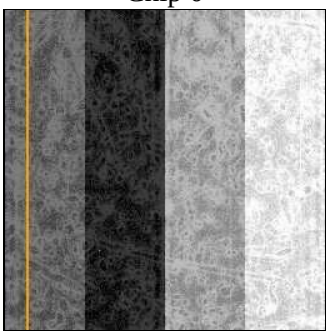


Level 1 Bad Events

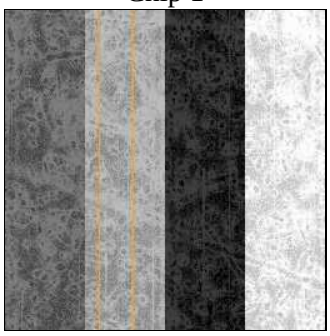


2.1.2 Bias

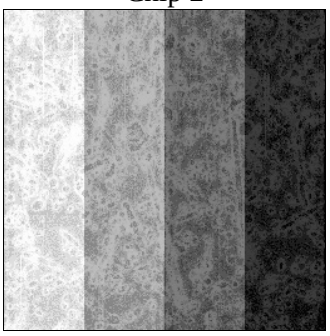
Chip 0



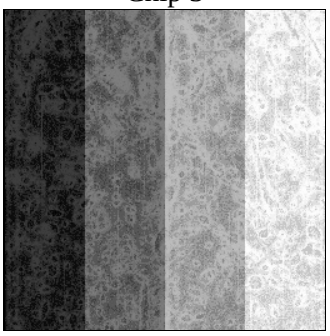
Chip 1



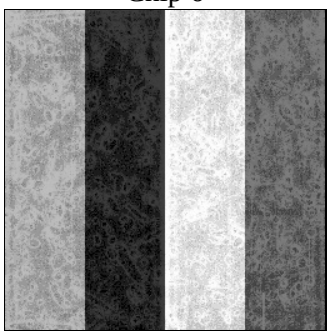
Chip 2



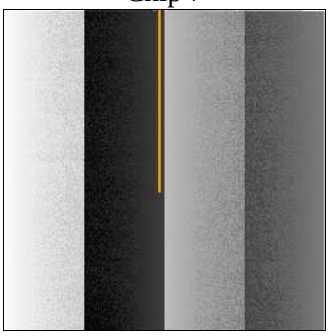
Chip 3



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	2009-11-19T23:23:19	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	4849.2690706551	Sum of GTIs [s]
ontime0	1857.1145969555	Sum of GTIs [s]
ontime1	1896.0070470944	Sum of GTIs [s]
ontime2	1759.8835064843	Sum of GTIs [s]
ontime3	1821.46312695	Sum of GTIs [s]
ontime6	1983.5150474757	Sum of GTIs [s]
ontime7	4849.2690706551	Sum of GTIs [s]
l1events	1518528	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	195169	199565	188098	193790	216220	525686
rejected events	27090	27099	28703	28588	32598	50978
rejected %	13%	13%	15%	14%	15%	9%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	64303	65826	52766	55988	52995	87735
	32%	32%	28%	28%	24%	16%
grade 1 events	310	308	239	253	206	219
	0%	0%	0%	0%	0%	0%
grade 2 events	60363	62452	67306	68701	83945	132637
	30%	31%	35%	35%	38%	25%
grade 3 events	7028	7170	5582	5880	5512	41221
	3%	3%	2%	3%	2%	7%
grade 4 events	7067	7005	5592	5837	5325	37468
	3%	3%	2%	3%	2%	7%
grade 5 events	1706	1707	1566	1690	1771	7368
	0%	0%	0%	0%	0%	1%
grade 6 events	29318	30013	28149	28796	35845	175932
	15%	15%	14%	14%	16%	33%
grade 7 events	25074	25084	26898	26645	30621	43106
	12%	12%	14%	13%	14%	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	112.1378827250166
Pointing Dec	0	80.02695357487572
Pointing Roll	0.0	80.15934298039566
SIM focus pos (mm)	-0.782348	-0.6828225247311905
SIM defocus (mm)	0	0.8505141146731063
SIM translation stage pos (mm)	-233.592463	250.4635187648994
SIM translation stage offset (mm)	0	-0.007540371344731511
Observation start time	55719587.313232	55719586.544743
Observation start date	1999-10-07T21:39:47	1999-10-07T21:39:46
Observation end time	55731813.513671	55731812.745184
Observation end date	1999-10-08T01:03:34	1999-10-08T01:03:32
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	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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8492690706551

A.2 Comments

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The focal plane temperature is approximately -110C 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.

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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