V&V Reference Report
L2 ASCDS Version : 8.1.1

Observation 62241 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 29 2009

Contents

1 Front

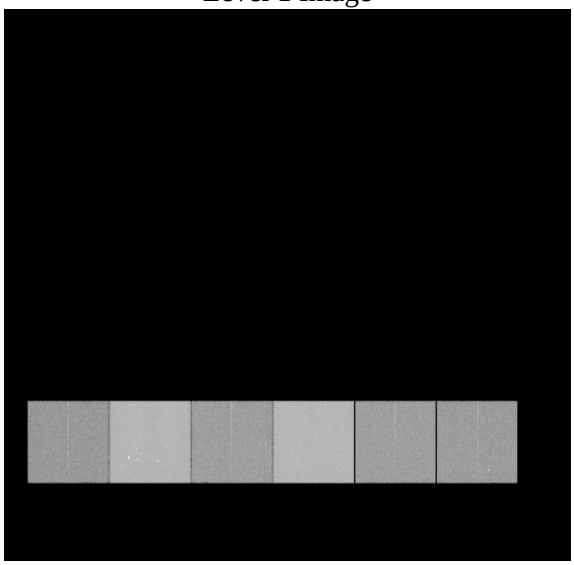
seq_num		Sequence number
obs_id	62241	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	94.728251269663	Nominal RA
dec_nom	1.3260074479738	Nominal Dec
roll_nom	339.790402095	Nominal Roll
revision	4	Processing version of data
ontime	2887.7585170418	Sum of GTIs [s]
livetime	2851.1919798996	Livetime [s]
ontime4	1082.5061054081	Sum of GTIs [s]
ontime5	3091.9405862913	Sum of GTIs [s]
ontime6	1237.484924905	Sum of GTIs [s]
ontime7	2887.7585170418	Sum of GTIs [s]
ontime8	1244.5581057221	Sum of GTIs [s]
ontime9	1192.7013858333	Sum of GTIs [s]
l2events	903198	Number of level 2 events

2 OBI

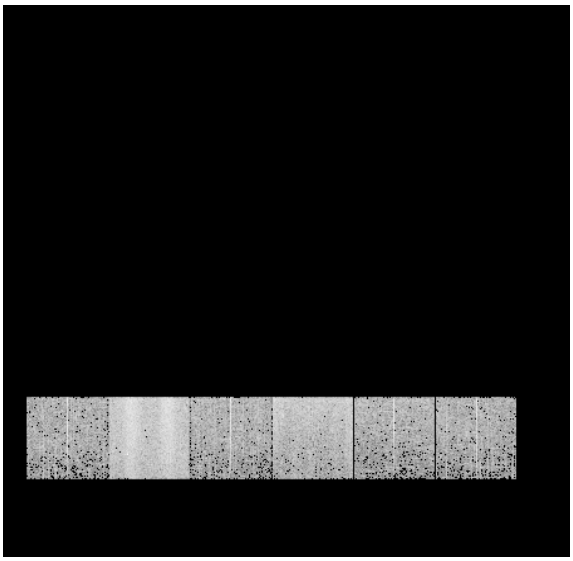
2.1 OBI

2.1.1 Images

Level 1 Image

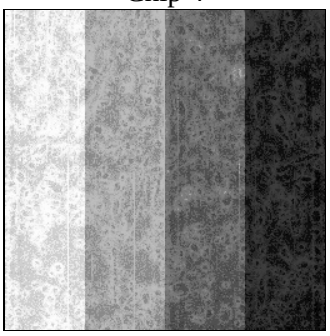


Level 1 Bad Events

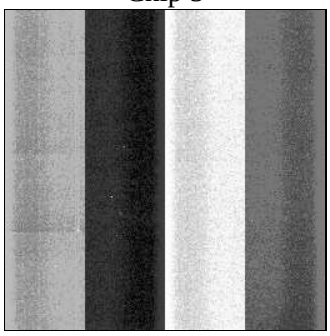


2.1.2 Bias

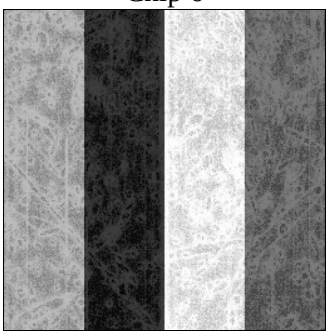
Chip 4



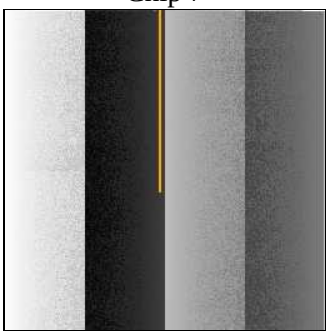
Chip 5



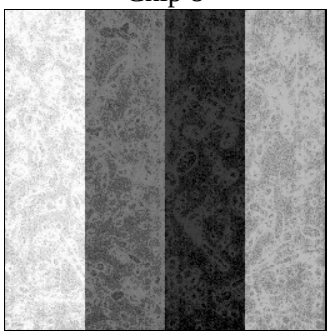
Chip 6



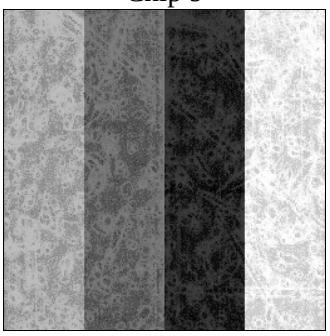
Chip 7



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	2009-11-29T22:14:09	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	2887.7585170418	Sum of GTIs [s]
ontime4	1082.5061054081	Sum of GTIs [s]
ontime5	3091.9405862913	Sum of GTIs [s]
ontime6	1237.484924905	Sum of GTIs [s]
ontime7	2887.7585170418	Sum of GTIs [s]
ontime8	1244.5581057221	Sum of GTIs [s]
ontime9	1192.7013858333	Sum of GTIs [s]
l1events	1063064	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	104856	288880	128305	293039	128731	119253
rejected events	17471	46218	18499	27756	17492	17332
rejected %	16%	15%	14%	9%	13%	14%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	19408	27557	30477	48550	38503	31000
	18%	9%	23%	16%	29%	25%
grade 1 events	72	121	133	123	155	120
	0%	0%	0%	0%	0%	0%
grade 2 events	47731	94184	51496	74248	44696	45295
	45%	32%	40%	25%	34%	37%
grade 3 events	1950	12684	3240	22822	4109	3108
	1%	4%	2%	7%	3%	2%
grade 4 events	1969	11084	3200	20888	4129	3217
	1%	3%	2%	7%	3%	2%
grade 5 events	879	4838	1067	4074	1194	1048
	0%	1%	0%	1%	0%	0%
grade 6 events	16327	97153	21393	98775	19802	19301
	15%	33%	16%	33%	15%	16%
grade 7 events	16520	41259	17299	23559	16143	16164
	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	94.72825126966332
Pointing Dec	0	1.326007447973794
Pointing Roll	0.0	339.7904020950048
SIM focus pos (mm)	-0.684267	-0.6828225247311905
SIM defocus (mm)	0	0.8505141146731063
SIM translation stage pos (mm)	-190.132523	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	63272500.986	63272500.217655
Observation start date	2000-01-03T07:41:41	2000-01-03T07:41:40
Observation end time	63316629.288	63316628.519255
Observation end date	2000-01-03T19:57:09	2000-01-03T19:57:08
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	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	2.8877585170418

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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