

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62307 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

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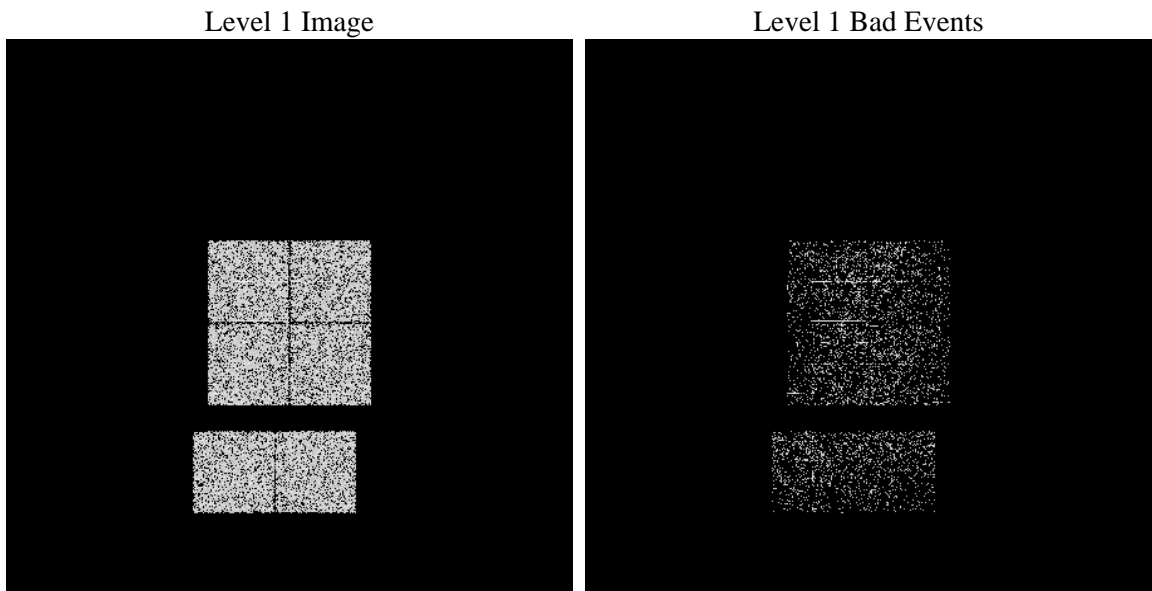
1 Front

seq_num	 	Sequence number
obs_id	62307	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	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	325.01875018235	Nominal RA
dec_nom	-30.035255489845	Nominal Dec
roll_nom	288.08291791785	Nominal Roll
revision	4	Processing version of data
ontime	64.000000059605	Sum of GTIs [s]
livetime	63.189593522676	Livetime [s]
ontime0	64.000000059605	Sum of GTIs [s]
ontime1	64.000000059605	Sum of GTIs [s]
ontime2	64.000000059605	Sum of GTIs [s]
ontime3	64.000000059605	Sum of GTIs [s]
ontime6	64.000000059605	Sum of GTIs [s]
ontime7	64.000000059605	Sum of GTIs [s]
l2events	34400	Number of level 2 events

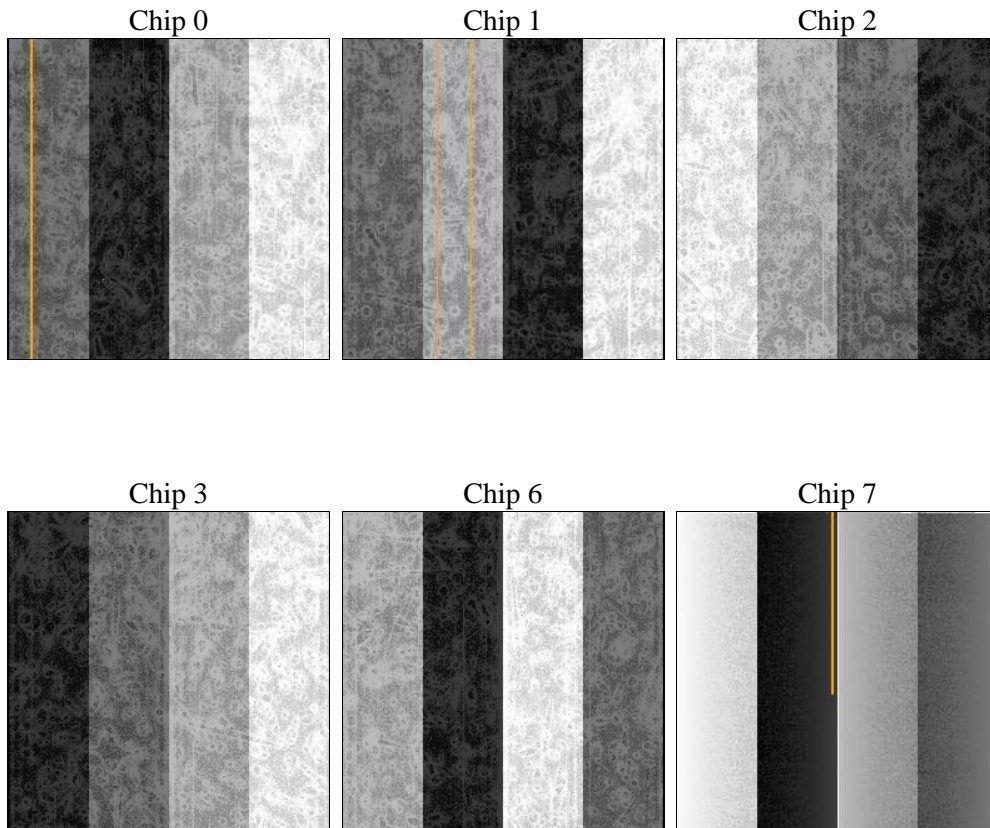
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.1.1	ASCDS version number
caldsver	4.1.4	
date	2009-11-24T10:59:09	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	64.000000059605	Sum of GTIs [s]
ontime0	64.000000059605	Sum of GTIs [s]
ontime1	64.000000059605	Sum of GTIs [s]
ontime2	64.000000059605	Sum of GTIs [s]
ontime3	64.000000059605	Sum of GTIs [s]
ontime6	64.000000059605	Sum of GTIs [s]
ontime7	64.000000059605	Sum of GTIs [s]
l1events	39960	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	6798	6481	6616	6598	6778	6689
rejected events	1070	823	890	871	856	682
rejected %	15%	12%	13%	13%	12%	10%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2066	2111	1753	1854	1616	1074
	30%	32%	26%	28%	23%	16%
grade 1 events	12	3	7	9	5	1
	0%	0%	0%	0%	0%	0%
grade 2 events	2168	2150	2574	2490	2801	1738
	31%	33%	38%	37%	41%	25%
grade 3 events	220	222	187	175	161	495
	3%	3%	2%	2%	2%	7%
grade 4 events	239	209	203	198	176	467
	3%	3%	3%	3%	2%	6%
grade 5 events	65	52	48	45	54	97
	0%	0%	0%	0%	0%	1%
grade 6 events	1035	966	1009	1010	1168	2233
	15%	14%	15%	15%	17%	33%
grade 7 events	993	768	835	817	797	584
	14%	11%	12%	12%	11%	8%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	325.0187501823523	Alternating exposures requested	N	N
Pointing Dec	0	-30.03525548984529	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	288.0829179178539			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	59216571.739	59216570.970872			
Observation start date	1999-11-17T09:02:52	1999-11-17T09:02:50			
Observation end time	59218447.489	59218446.72094			
Observation end date	1999-11-17T09:34:07	1999-11-17T09:34:06			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.0640000000059605

A.2 Comments

The focal plane temperature is approximately -110 C 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.