

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62251 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 29 2009

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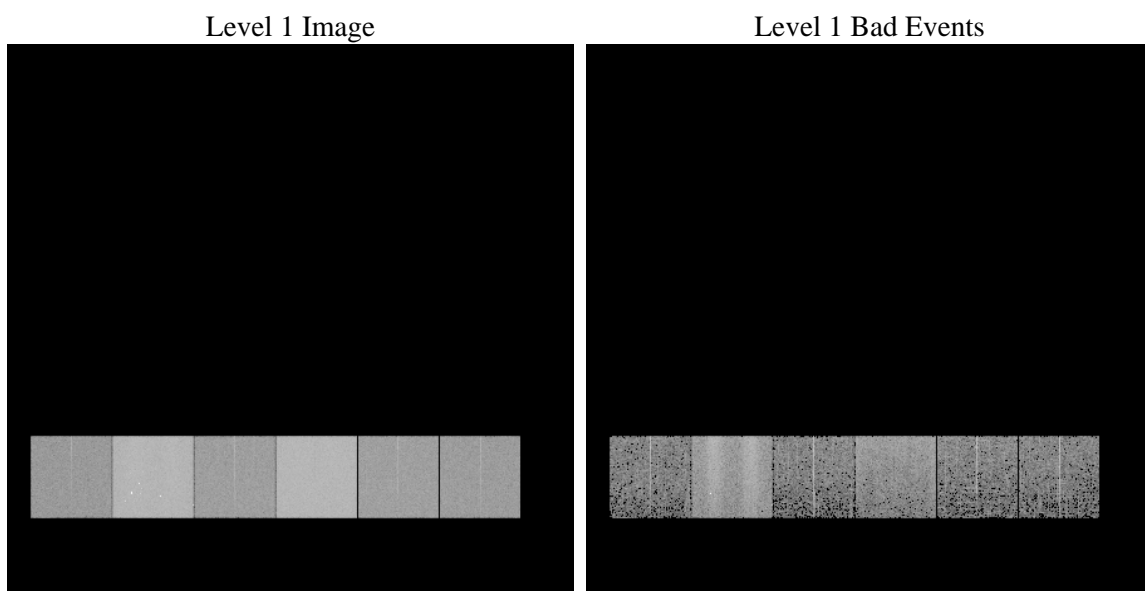
1 Front

seq_num	 	Sequence number
obs_id	62251	Observation id
title	ACIS-456789 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	338.02140777549	Nominal RA
dec_nom	-35.024770252452	Nominal Dec
roll_nom	276.40514858682	Nominal Roll
revision	4	Processing version of data
ontime	2881.2763856798	Sum of GTIs [s]
livetime	2844.791929188	Livetime [s]
ontime4	1123.852144964	Sum of GTIs [s]
ontime5	3075.73476585	Sum of GTIs [s]
ontime6	1251.0399959311	Sum of GTIs [s]
ontime7	2881.2763856798	Sum of GTIs [s]
ontime8	1289.1040954292	Sum of GTIs [s]
ontime9	1215.388555862	Sum of GTIs [s]
l2events	907251	Number of level 2 events

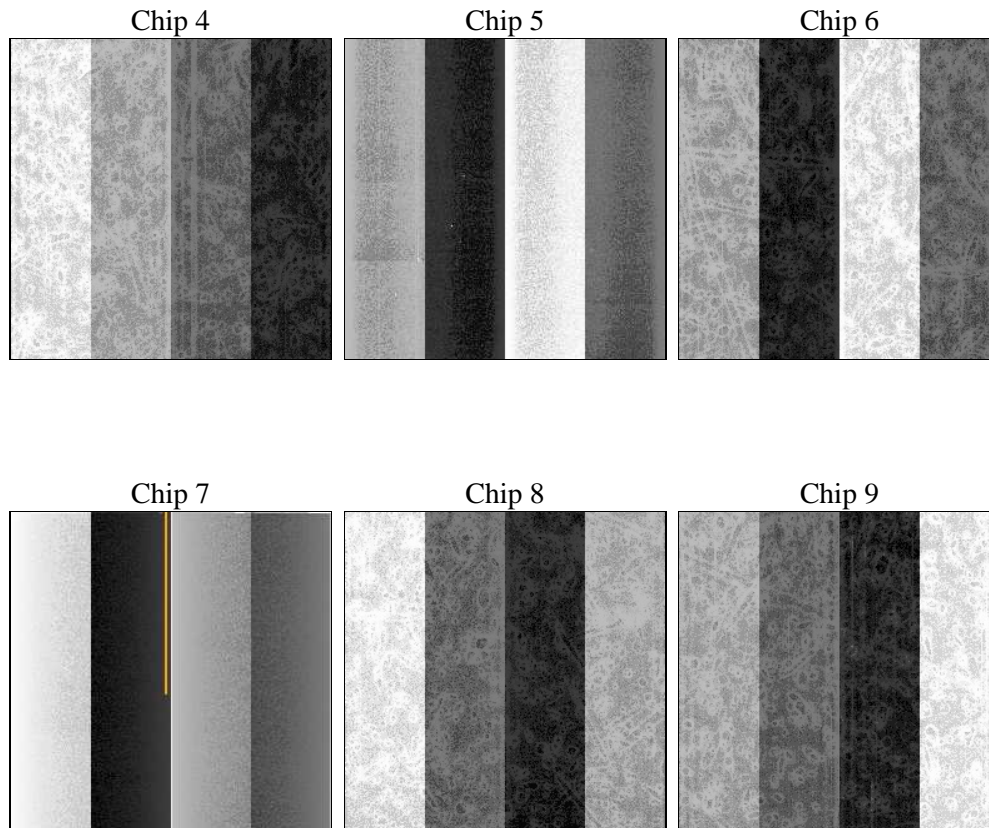
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	107909	284629	128206	291070	133658	119714	grade 0 events	20287	25098	30039	46543	40351	31396
rejected events	17094	47135	17682	28517	18112	16729		18%	8%	23%	15%	30%	26%
rejected %	15%	16%	13%	9%	13%	13%	grade 1 events	76	203	104	111	153	116
								0%	0%	0%	0%	0%	0%
							grade 2 events	49565	91869	52735	74008	46178	45971
								45%	32%	41%	25%	34%	38%
							grade 3 events	2001	12144	3112	22486	4277	3208
								1%	4%	2%	7%	3%	2%
							grade 4 events	2004	10347	2979	20123	4254	3150
								1%	3%	2%	6%	3%	2%
							grade 5 events	841	5011	1037	4164	1154	1013
								0%	1%	0%	1%	0%	0%
							grade 6 events	16958	98036	21659	99393	20486	19260
								15%	34%	16%	34%	15%	16%
							grade 7 events	16177	41921	16541	24242	16805	15600
								14%	14%	12%	8%	12%	13%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	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	338.0214077754858	Alternating exposures requested	N	N
Pointing Dec	0	-35.02477025245192	Primary exposure time	3.2	3.2
Pointing Roll	0.0	276.4051485868212			
SIM focus pos (mm)	-0.684267	-1.428180813131781			
SIM defocus (mm)	0	0.1051558262725154			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	62633153.112913	62633152.344482			
Observation start date	1999-12-26T22:05:53	1999-12-26T22:05:52			
Observation end time	62640453.163177	62640452.394746			
Observation end date	1999-12-27T00:07:33	1999-12-27T00:07:32			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.01.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8812763856798

A.2 Comments

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.