

V&V Reference Report

L2 ASCDS Version : 8.2.1

Observation 62430 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Sep 23 2010

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

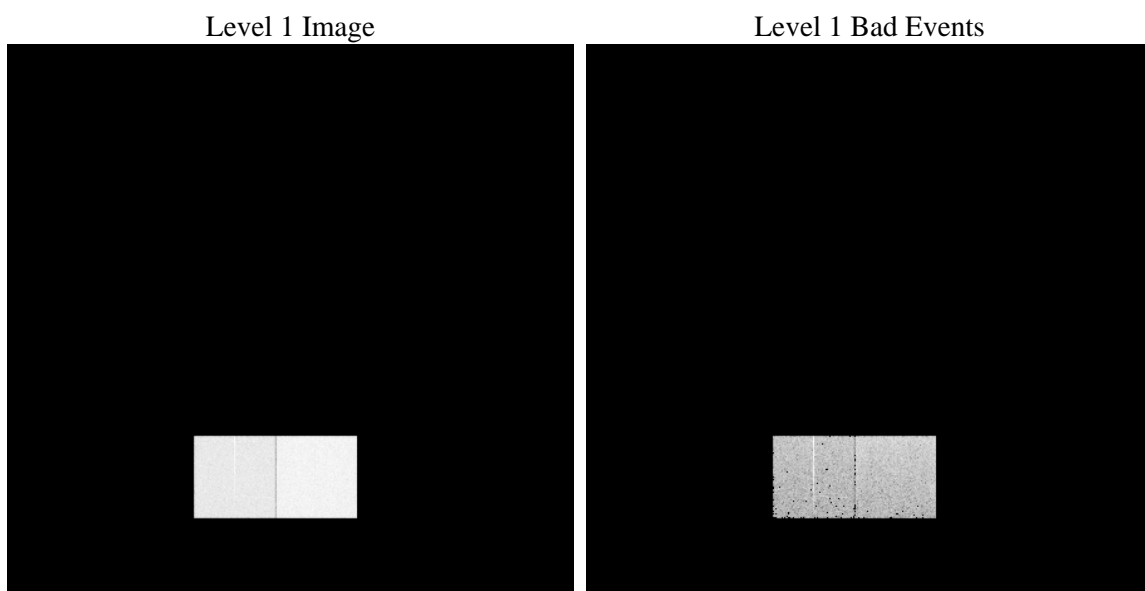
1 Front

seq_num	 	Sequence number
obs_id	62430	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	201.35846162926	Nominal RA
dec_nom	-43.022843236118	Nominal Dec
roll_nom	220.64227498169	Nominal Roll
revision	3	Processing version of data
ontime	2732.8000025451	Sum of GTIs [s]
livetime	2698.1956434183	Livetime [s]
ontime4	1787.7380063981	Sum of GTIs [s]
ontime5	2732.8000025451	Sum of GTIs [s]
ontime6	1984.1402815133	Sum of GTIs [s]
ontime7	2732.8000025451	Sum of GTIs [s]
ontime8	1929.0440281034	Sum of GTIs [s]
ontime9	1923.940584071	Sum of GTIs [s]
l2events	454656	Number of level 2 events

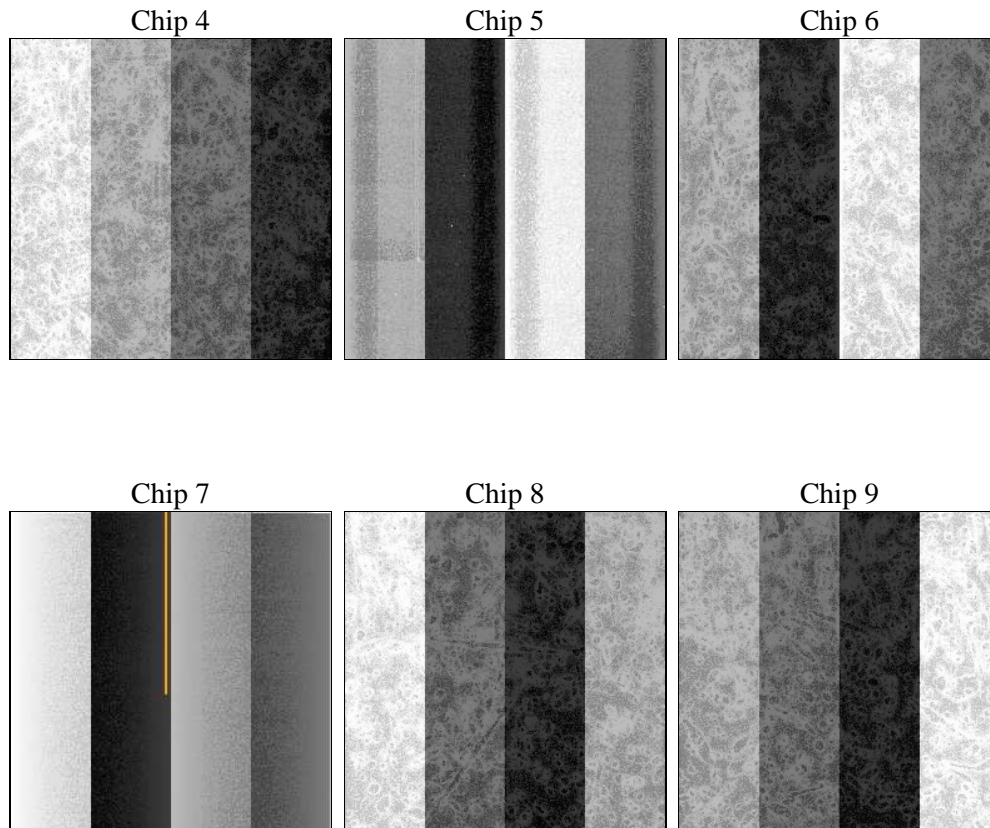
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.3.2.1	ASCDS version number		
caldsver	4.3.1	 		
date	2010-09-23T18:07:31	Date and time of file creation		
revision	3	Processing version of data		
			sched_exp_time	0.0
				Scheduled observation exposure time
			ontime	2732.8000025451
				Sum of GTIs [s]
			ontime4	1787.7380063981
				Sum of GTIs [s]
			ontime5	2732.8000025451
				Sum of GTIs [s]
			ontime6	1984.1402815133
				Sum of GTIs [s]
			ontime7	2732.8000025451
				Sum of GTIs [s]
			ontime8	1929.0440281034
				Sum of GTIs [s]
			ontime9	1923.940584071
				Sum of GTIs [s]
			l1events	521845
				Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	216100	305745	0	0
rejected events	0	0	27818	34651	0	0
rejected %	0%	0%	12%	11%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	84698	50952	0	0
	0%	0%	39%	16%	0%	0%
grade 1 events	0	0	394	134	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	48637	77276	0	0
	0%	0%	22%	25%	0%	0%
grade 3 events	0	0	10411	24025	0	0
	0%	0%	4%	7%	0%	0%
grade 4 events	0	0	10412	21658	0	0
	0%	0%	4%	7%	0%	0%
grade 5 events	0	0	1634	4356	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	36814	101995	0	0
	0%	0%	17%	33%	0%	0%
grade 7 events	0	0	23100	25349	0	0
	0%	0%	10%	8%	0%	0%

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	201.3584616292559	Alternating exposures requested	N	N
Pointing Dec	0	-43.02284323611751	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	220.6422749816919			
SIM focus pos (mm)	-0.684267	-1.209467346227443			
SIM defocus (mm)	0	0.3238692931768539			
SIM translation stage pos (mm)	-190.132523	250.4459185577885			
SIM translation stage offset (mm)	0	0.01005983576618519			
Observation start time	53431317.775	53431317.007144			
Observation start date	1999-09-11T10:01:58	1999-09-11T10:01:57			
Observation end time	53436034.826	53436034.057313			
Observation end date	1999-09-11T11:20:35	1999-09-11T11:20:34			
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)	2010.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7328000025451

A.2 Comments

A spatial exclusion window was specified for this observation. Although 6 CCD chips were active, only events from chips 6 and 7 were telemetered.

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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.