

V&V Reference Report

L2 ASCDS Version : 8.3.2.1

Observation 62377 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Sep 28 2010

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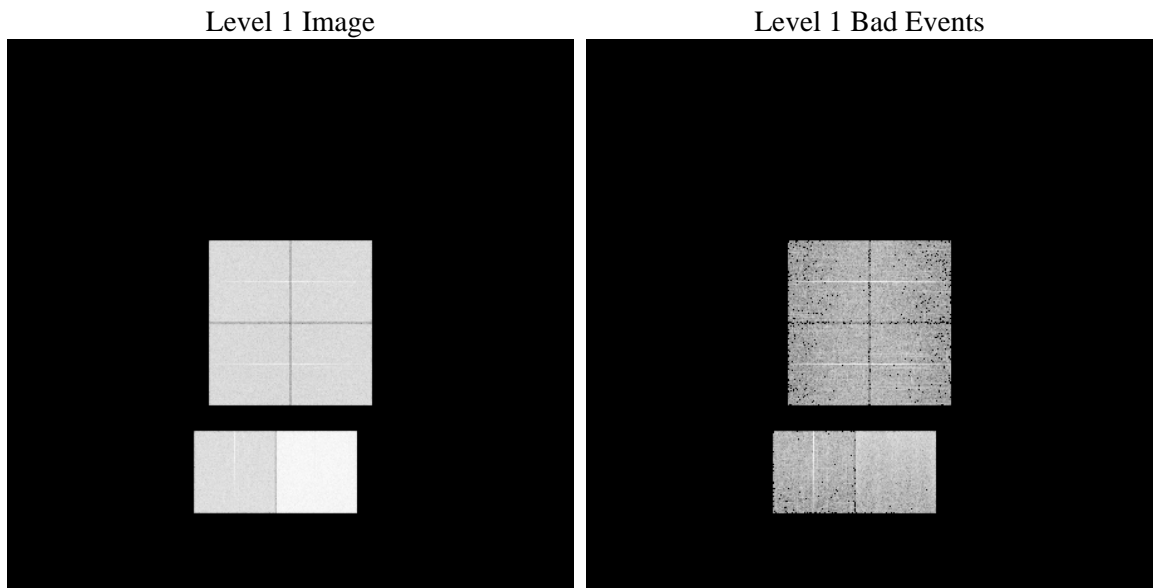
1 Front

seq_num	 	Sequence number
obs_id	62377	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	112.07611955263	Nominal RA
dec_nom	80.318160481445	Nominal Dec
roll_nom	73.913807309961	Nominal Roll
revision	4	Processing version of data
ontime	4219.3601973578	Sum of GTIs [s]
livetime	4165.9321179452	Livetime [s]
ontime0	1639.5539011285	Sum of GTIs [s]
ontime1	1662.2822211683	Sum of GTIs [s]
ontime2	1552.1279508099	Sum of GTIs [s]
ontime3	1581.3383508623	Sum of GTIs [s]
ontime6	1799.3329803646	Sum of GTIs [s]
ontime7	4219.3601973578	Sum of GTIs [s]
l2events	1153764	Number of level 2 events

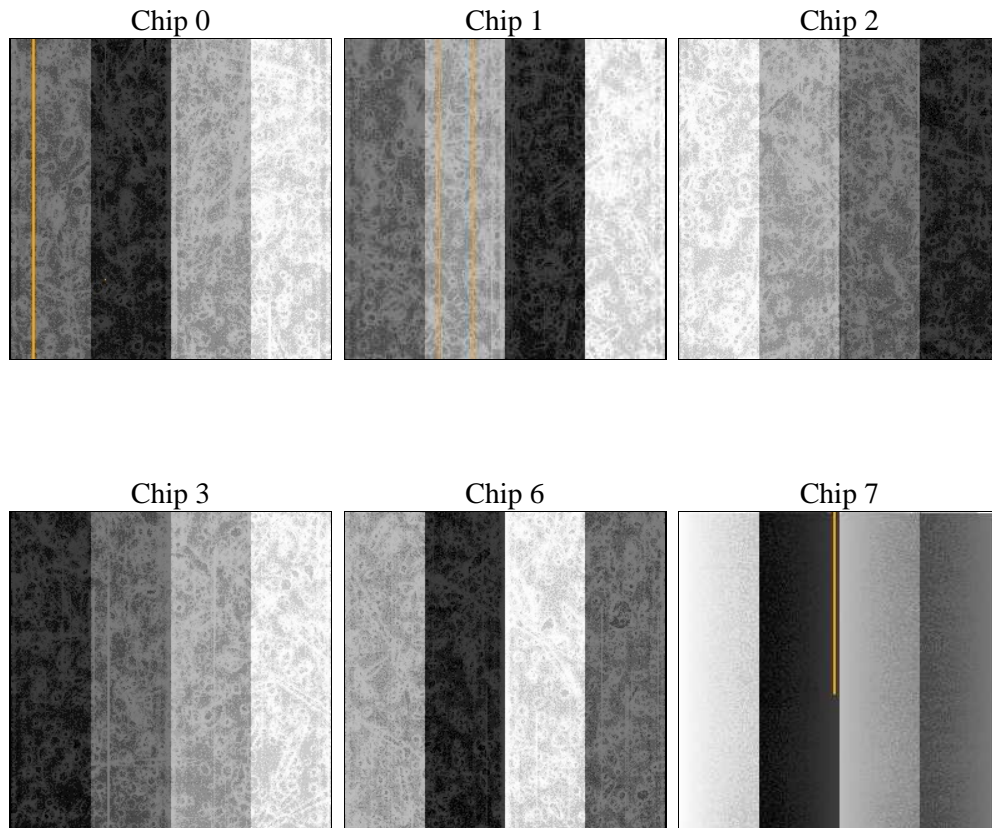
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	Scheduled observation exposure time
ascdsver	8.3.2.1	ASCDS version number	ontime	4219.3601973578	Sum of GTIs [s]
caldbver	4.3.1	 	ontime0	1639.5539011285	Sum of GTIs [s]
date	2010-09-28T20:15:28	Date and time of file creation	ontime1	1662.2822211683	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	1552.1279508099	Sum of GTIs [s]
			ontime3	1581.3383508623	Sum of GTIs [s]
			ontime6	1799.3329803646	Sum of GTIs [s]
			ontime7	4219.3601973578	Sum of GTIs [s]
			l1events	1335287	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	172001	174289	164251	168838	196296	459612	grade 0 events	56082	56143	45053	47587	47305	75114
rejected events	23165	23745	23782	25090	28875	44709		32%	32%	27%	28%	24%	16%
rejected %	13%	13%	14%	14%	14%	9%	grade 1 events	249	243	194	199	207	181
								0%	0%	0%	0%	0%	0%
							grade 2 events	54847	56009	60476	60564	77411	116488
								31%	32%	36%	35%	39%	25%
							grade 3 events	6036	5985	4800	4950	4980	35718
								3%	3%	2%	2%	2%	7%
							grade 4 events	5833	5955	4635	5004	4904	32403
								3%	3%	2%	2%	2%	7%
							grade 5 events	1480	1515	1392	1464	1655	6449
								0%	0%	0%	0%	0%	1%
							grade 6 events	26038	26452	25505	25643	33117	155180
								15%	15%	15%	15%	16%	33%
							grade 7 events	21436	21987	22196	23427	26717	38079
								12%	12%	13%	13%	13%	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	112.0761195526269	Alternating exposures requested	N	N
Pointing Dec	0	80.31816048144512	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	73.9138073099611			
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	55101725.538	55101724.722504			
Observation start date	1999-09-30T18:02:06	1999-09-30T18:02:04			
Observation end time	55110901.291	55110900.522834			
Observation end date	1999-09-30T20:35:01	1999-09-30T20:35:00			
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)	2010.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.2193601973578

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.