

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62328 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

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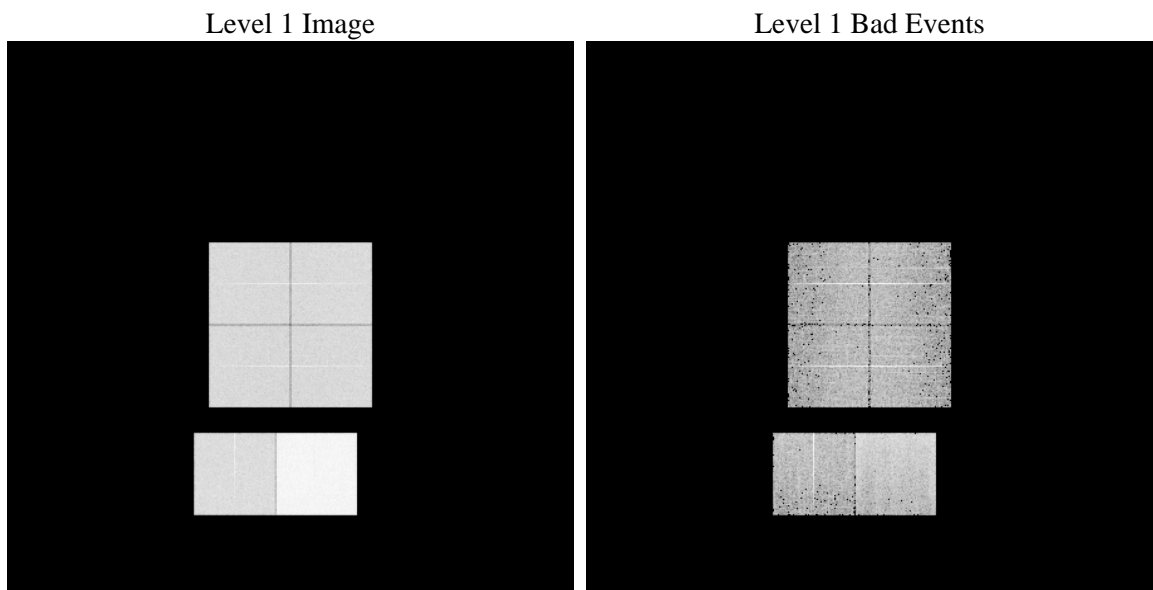
1 Front

seq_num	 	Sequence number
obs_id	62328	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	83.817707145155	Nominal RA
dec_nom	-5.3900036878649	Nominal Dec
roll_nom	67.714354269383	Nominal Roll
revision	4	Processing version of data
ontime	4920.638356477	Sum of GTIs [s]
livetime	4858.3302707546	Livetime [s]
ontime0	1907.685522683	Sum of GTIs [s]
ontime1	1949.8601127118	Sum of GTIs [s]
ontime2	1829.9826923981	Sum of GTIs [s]
ontime3	1855.746912308	Sum of GTIs [s]
ontime6	2060.1376027763	Sum of GTIs [s]
ontime7	4920.638356477	Sum of GTIs [s]
l2events	1314028	Number of level 2 events

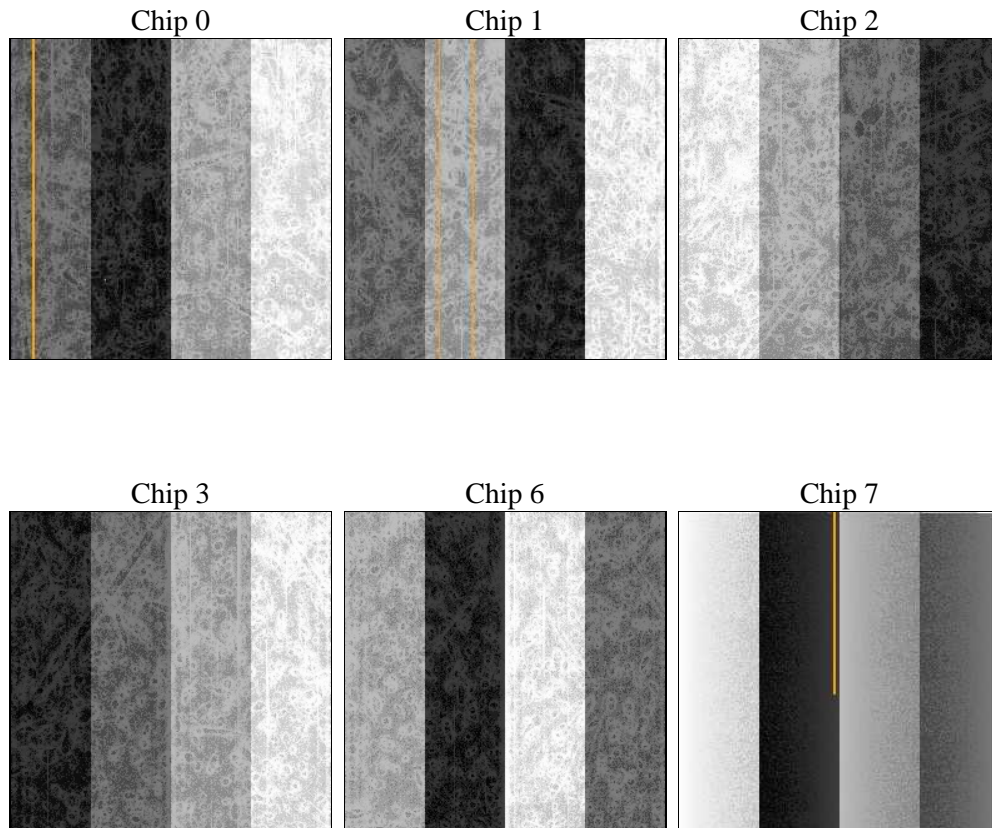
2 OBI

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	sched_exp_time	0.0
caldsver	4.1.4	 		Scheduled observation exposure time
date	2009-11-21T12:16:48	Date and time of file creation	ontime	4920.638356477
revision	3	Processing version of data	ontime0	1907.685522683
			ontime1	1949.8601127118
			ontime2	1829.9826923981
			ontime3	1855.746912308
			ontime6	2060.1376027763
			ontime7	4920.638356477
			l1events	1517146
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				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	194734	200546	189356	192666	220217	519627	grade 0 events	61795	64326	51882	54430	53184	85349
rejected events	26124	26575	27122	28084	32037	49765		31%	32%	27%	28%	24%	16%
rejected %	13%	13%	14%	14%	14%	9%	grade 1 events	294	234	227	226	216	207
								0%	0%	0%	0%	0%	0%
							grade 2 events	63341	65300	70654	70033	87098	132174
								32%	32%	37%	36%	39%	25%
							grade 3 events	6783	6843	5471	5510	5482	40233
								3%	3%	2%	2%	2%	7%
							grade 4 events	6661	6950	5336	5662	5532	36469
								3%	3%	2%	2%	2%	7%
							grade 5 events	1654	1675	1578	1683	1796	7344
								0%	0%	0%	0%	0%	1%
							grade 6 events	30030	30552	28891	28947	36884	175637
								15%	15%	15%	15%	16%	33%
							grade 7 events	24176	24666	25317	26175	30025	42214
								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	83.81770714515488	Alternating exposures requested	N	N
Pointing Dec	0	-5.390003687864949	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	67.71435426938274			
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	57845357.44	57845356.671353			
Observation start date	1999-11-01T12:09:17	1999-11-01T12:09:16			
Observation end time	57855158.49	57855157.721707			
Observation end date	1999-11-01T14:52:38	1999-11-01T14:52:37			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.920638356477

A.2 Comments

The focal plane temperature is approximately -110C during this observation.

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 chip (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.