

V&V Reference Report

L2 ASCDS Version : 8.3.2.1

Observation 62380 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Sep 28 2010

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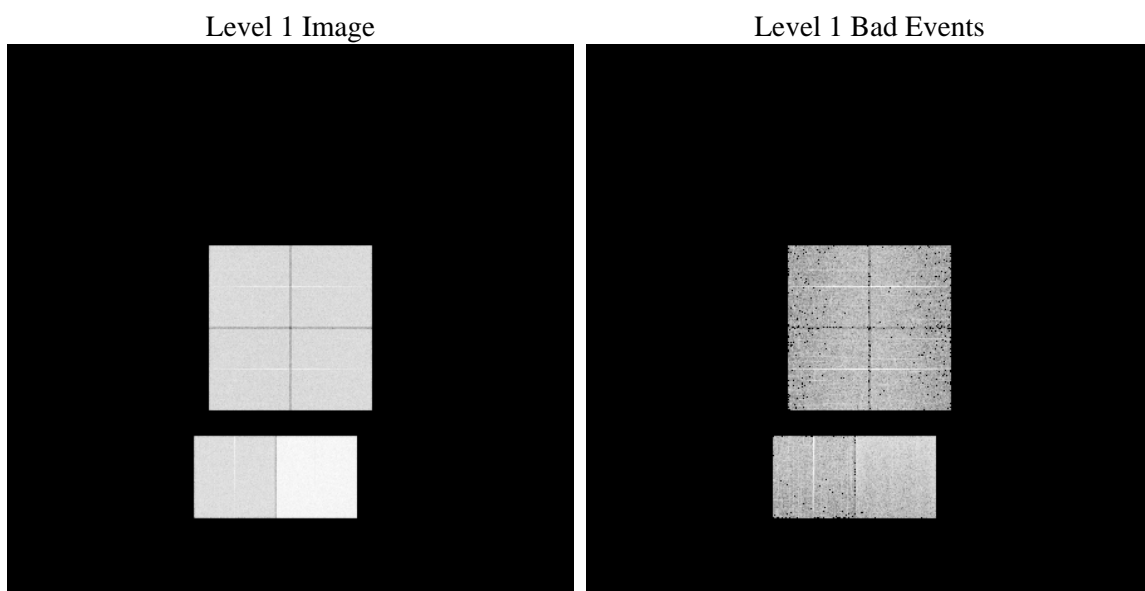
1 Front

seq_num	 	Sequence number
obs_id	62380	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	16.068453420702	Nominal RA
dec_nom	-72.012447066574	Nominal Dec
roll_nom	11.919946343836	Nominal Roll
revision	4	Processing version of data
ontime	4756.3362344056	Sum of GTIs [s]
livetime	4696.1086410837	Livetime [s]
ontime0	1871.8732926622	Sum of GTIs [s]
ontime1	1854.805135861	Sum of GTIs [s]
ontime2	1748.7957626209	Sum of GTIs [s]
ontime3	1842.8269728124	Sum of GTIs [s]
ontime6	2017.8841731548	Sum of GTIs [s]
ontime7	4756.3362344056	Sum of GTIs [s]
l2events	1311541	Number of level 2 events

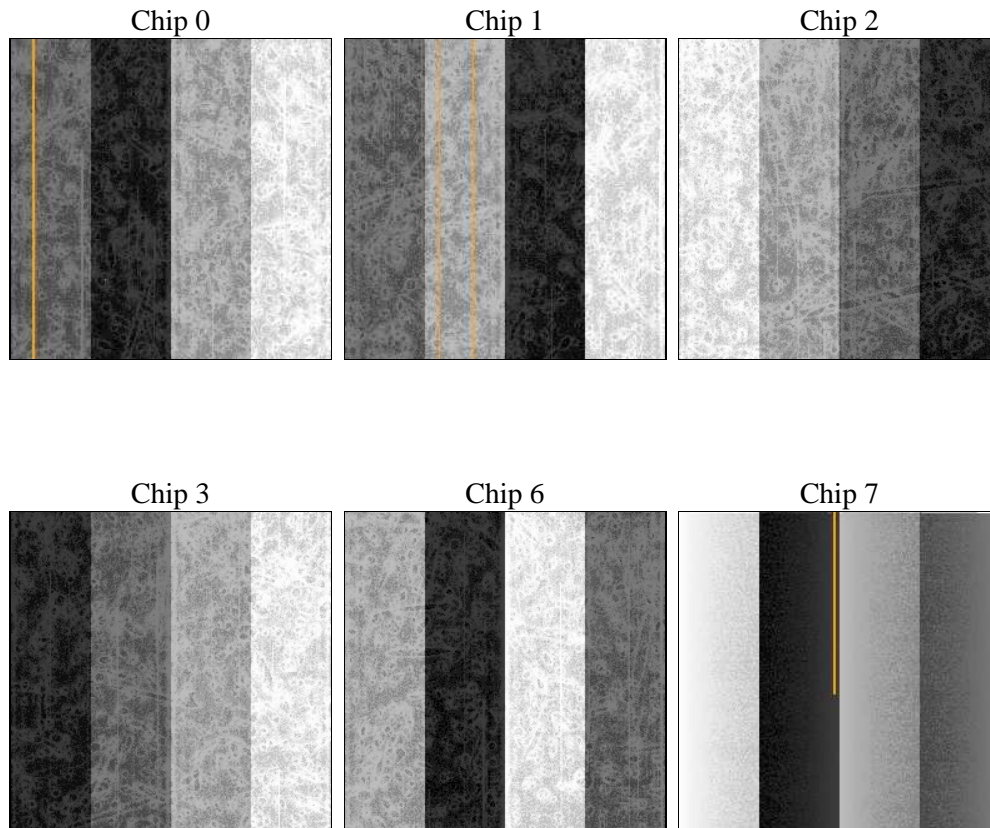
2 OBI

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	4756.3362344056	Sum of GTIs [s]
caldsver	4.3.1	 	ontime0	1871.8732926622	Sum of GTIs [s]
date	2010-09-28T19:48:24	Date and time of file creation	ontime1	1854.805135861	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	1748.7957626209	Sum of GTIs [s]
			ontime3	1842.8269728124	Sum of GTIs [s]
			ontime6	2017.8841731548	Sum of GTIs [s]
			ontime7	4756.3362344056	Sum of GTIs [s]
			l1events	1517865	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	196971	195787	187672	196767	220404	520264	grade 0 events	65083	64190	52176	57460	53258	87622
rejected events	26522	26441	28796	27882	32898	50022		33%	32%	27%	29%	24%	16%
rejected %	13%	13%	15%	14%	14%	9%	grade 1 events	278	288	222	257	202	216
								0%	0%	0%	0%	0%	0%
							grade 2 events	62145	62191	67752	70065	86600	131792
								31%	31%	36%	35%	39%	25%
							grade 3 events	6884	6881	5366	5990	5439	41233
								3%	3%	2%	3%	2%	7%
							grade 4 events	7130	6912	5482	5950	5502	37455
								3%	3%	2%	3%	2%	7%
							grade 5 events	1692	1712	1595	1713	1815	7186
								0%	0%	0%	0%	0%	1%
							grade 6 events	29539	29467	28389	29676	37011	173112
								14%	15%	15%	15%	16%	33%
							grade 7 events	24220	24146	26690	25656	30577	41648
								12%	12%	14%	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	16.06845342070152	Alternating exposures requested	N	N
Pointing Dec	0	-72.01244706657435	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	11.91994634383561			
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	55035364.986	55035364.170116			
Observation start date	1999-09-29T23:36:05	1999-09-29T23:36:04			
Observation end time	55045865.086	55045864.270494			
Observation end date	1999-09-30T02:31:05	1999-09-30T02:31:04			
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	4.7563362344056

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.