

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62272 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 26 2009

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

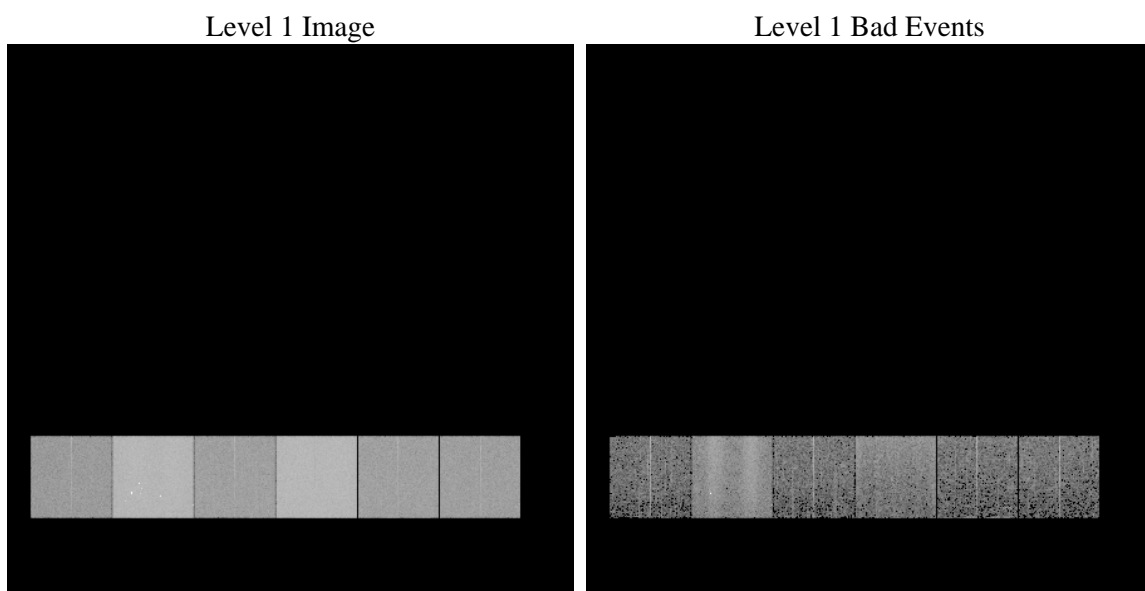
1 Front

seq_num	 	Sequence number
obs_id	62272	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	350.71742405029	Nominal RA
dec_nom	59.165499035282	Nominal Dec
roll_nom	281.50885886297	Nominal Roll
revision	4	Processing version of data
ontime	2844.6230619475	Sum of GTIs [s]
livetime	2808.6027319108	Livetime [s]
ontime4	1110.7965112031	Sum of GTIs [s]
ontime5	3033.8980661631	Sum of GTIs [s]
ontime6	1266.3252518624	Sum of GTIs [s]
ontime7	2844.6230619475	Sum of GTIs [s]
ontime8	1253.4431718364	Sum of GTIs [s]
ontime9	1235.1294504106	Sum of GTIs [s]
l2events	909811	Number of level 2 events

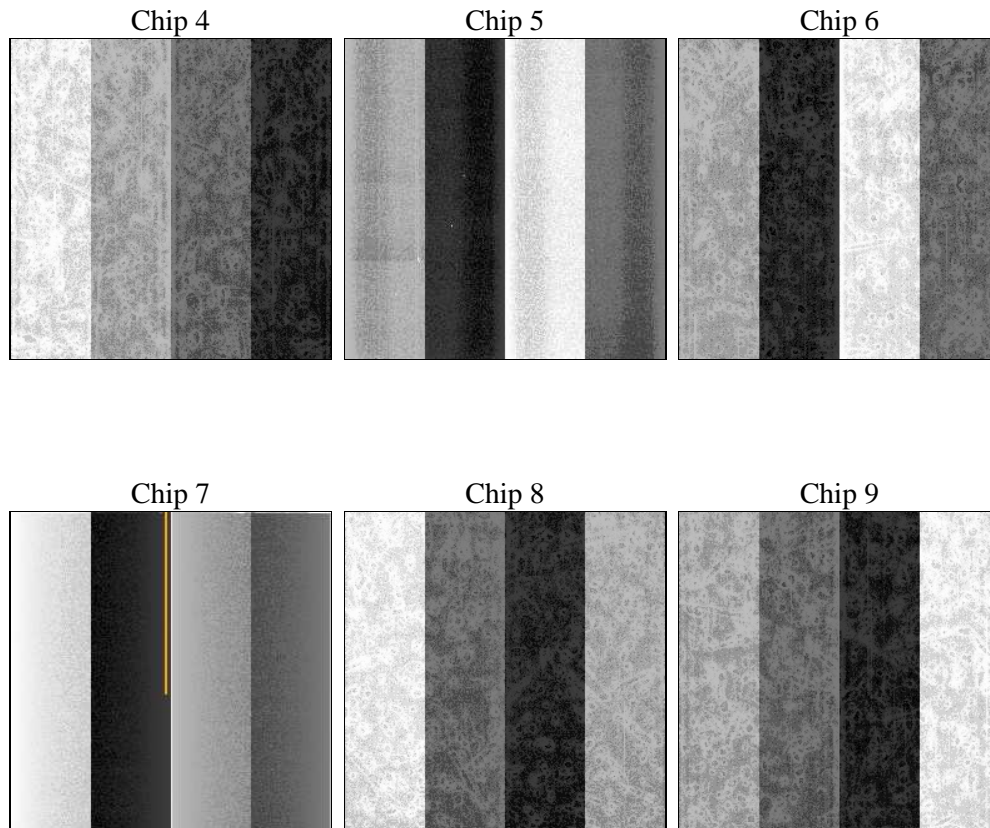
2 OBI

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
level 1 events	107353	283899	130069	288608	131062	123625
rejected events	16862	46087	17737	27454	17137	17090
rejected %	15%	16%	13%	9%	13%	13%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	20553	25748	29935	46946	39061	32524
	19%	9%	23%	16%	29%	26%
grade 1 events	78	161	104	118	153	145
	0%	0%	0%	0%	0%	0%
grade 2 events	49190	92356	53876	73316	45967	47133
	45%	32%	41%	25%	35%	38%
grade 3 events	2121	12159	3138	22489	4159	3520
	1%	4%	2%	7%	3%	2%
grade 4 events	2026	10527	2968	20164	4130	3401
	1%	3%	2%	6%	3%	2%
grade 5 events	839	4846	1011	4030	1072	1023
	0%	1%	0%	1%	0%	0%
grade 6 events	16601	97261	22415	98239	20608	20236
	15%	34%	17%	34%	15%	16%
grade 7 events	15945	40841	16622	23306	15912	15643
	14%	14%	12%	8%	12%	12%

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	350.7174240502939	Alternating exposures requested	N	N
Pointing Dec	0	59.16549903528217	Primary exposure time	3.2	3.2
Pointing Roll	0.0	281.5088588629724			
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	61486860.721415	61486859.952969			
Observation start date	1999-12-13T15:41:01	1999-12-13T15:40:59			
Observation end time	61494162.82168	61494162.053234			
Observation end date	1999-12-13T17:42:43	1999-12-13T17:42:42			
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)	2010.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8446230619475

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.