

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62709 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Mar 31 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

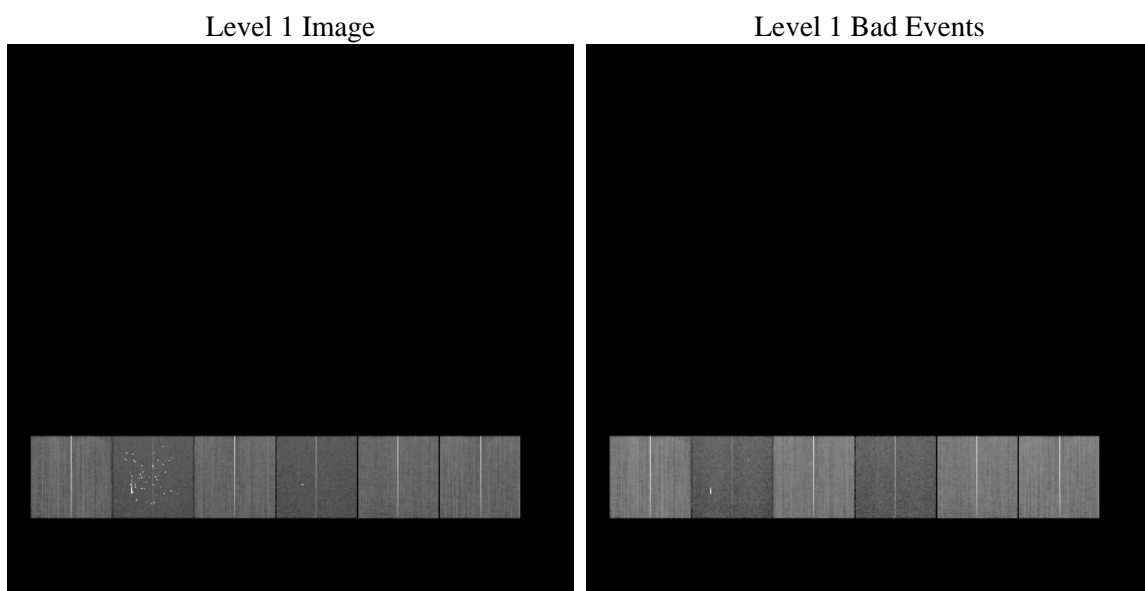
1 Front

seq_num	0	Sequence number
obs_id	62709	Observation id
title	ACIS-S background measurement	Proposal title
observer	CHANDRA orbital activation and checkout	Principal investigator
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	239.0440265563	Nominal RA
dec_nom	-55.372111524095	Nominal Dec
roll_nom	270.50557663779	Nominal Roll
revision	3	Processing version of data
ontime	16580.931070447	Sum of GTIs [s]
livetime	16377.257540309	Livetime [s]
ontime4	16584.189980596	Sum of GTIs [s]
ontime5	16580.890010521	Sum of GTIs [s]
ontime6	16574.043930091	Sum of GTIs [s]
ontime7	16580.931070447	Sum of GTIs [s]
ontime8	16577.467000224	Sum of GTIs [s]
ontime9	16574.084910236	Sum of GTIs [s]
l2events	226876	Number of level 2 events

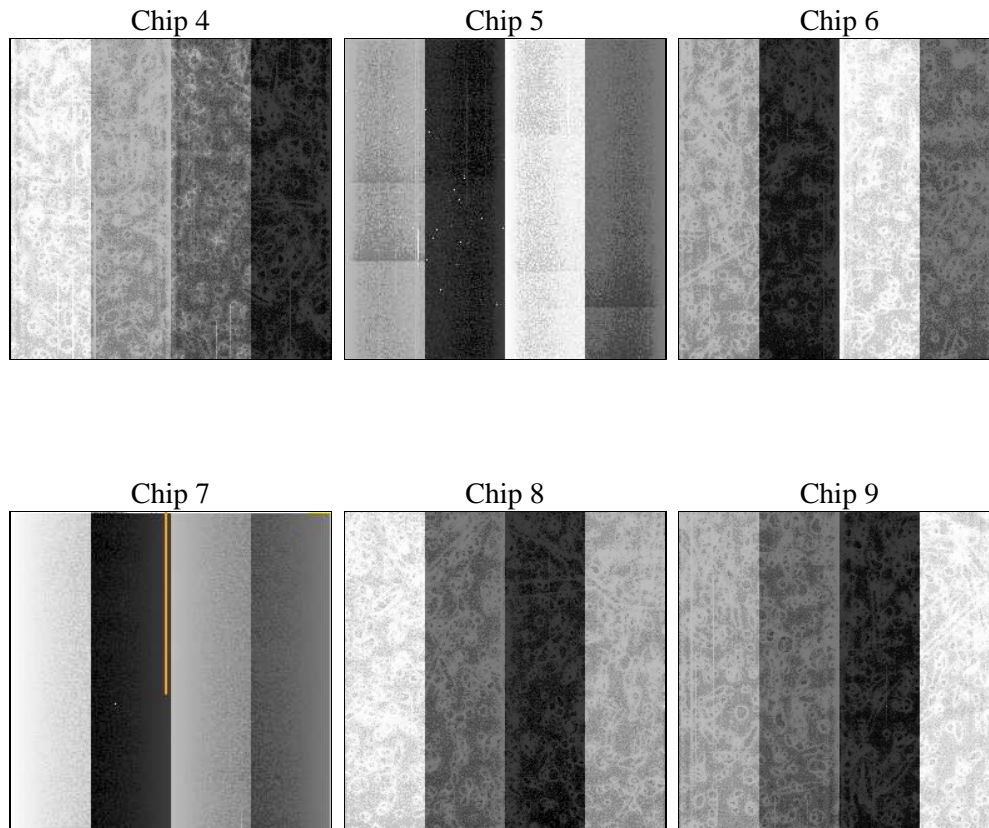
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.2.1	ASCDS version number	sched_exp_time	0.0
caldbver	4.1.5	 		
date	2010-03-31T20:31:35	Date and time of file creation	ontime	16580.931070447
revision	3	Processing version of data	ontime4	16584.189980596
			ontime5	16580.890010521
			ontime6	16574.043930091
			ontime7	16580.931070447
			ontime8	16577.467000224
			ontime9	16574.084910236
			l1events	2588819

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	481020	423134	483185	239733	469134	492613	grade 0 events	7889	131661	6769	11033	11457	7246
rejected events	464521	169100	467357	158003	438137	476156		1%	31%	1%	4%	2%	1%
rejected %	96%	39%	96%	65%	93%	96%	grade 1 events	88	511	64	170	120	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	3206	49102	2963	13144	8069	2976
								0%	11%	0%	5%	1%	0%
							grade 3 events	1569	11929	1629	8061	2758	1684
								0%	2%	0%	3%	0%	0%
							grade 4 events	1447	10416	1604	7048	2493	1579
								0%	2%	0%	2%	0%	0%
							grade 5 events	3841	14234	4816	14637	6294	5133
								0%	3%	0%	6%	1%	1%
							grade 6 events	2464	52091	2948	42835	6343	3073
								0%	12%	0%	17%	1%	0%
							grade 7 events	460516	153190	462392	142805	431600	470842
								95%	36%	95%	59%	91%	95%

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	239.0440265562995	Alternating exposures requested	N	N
Pointing Dec	0	-55.37211152409502	Primary exposure time	0.000000	3.3
Pointing Roll	0.0	270.5055766377851			
SIM focus pos (mm)	-0.684267	0.255451383487682			
SIM defocus (mm)	0	0.9397188447875782			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	50618672.923	50618672.372916			
Observation start date	1999-08-09T20:44:33	1999-08-09T20:44:32			
Observation end time	50636987.71	50636987.073562			
Observation end date	1999-08-10T01:49:48	1999-08-10T01:49:47			
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)	2010.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.580931070447

A.2 Comments

The focal plane temperature is approximately -90C 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 chips

(ACIS-5 and ACIS-7) data included here.

==

Chip 5 shows a smattering of cosmic ray hits.