

V&V Reference Report

L2 ASCDS Version : 7.6.11.10

Observation 60013 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

Contents

1	Front	2
2	OBI Primary	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
3	OBI Secondary	6
3.1	OBI	6
3.1.1	Images	6
3.1.2	Bias	6
3.1.3	Parameters	7
3.1.4	Events	7
A	Summary	8
A.1	Status	8
A.2	Comments	8

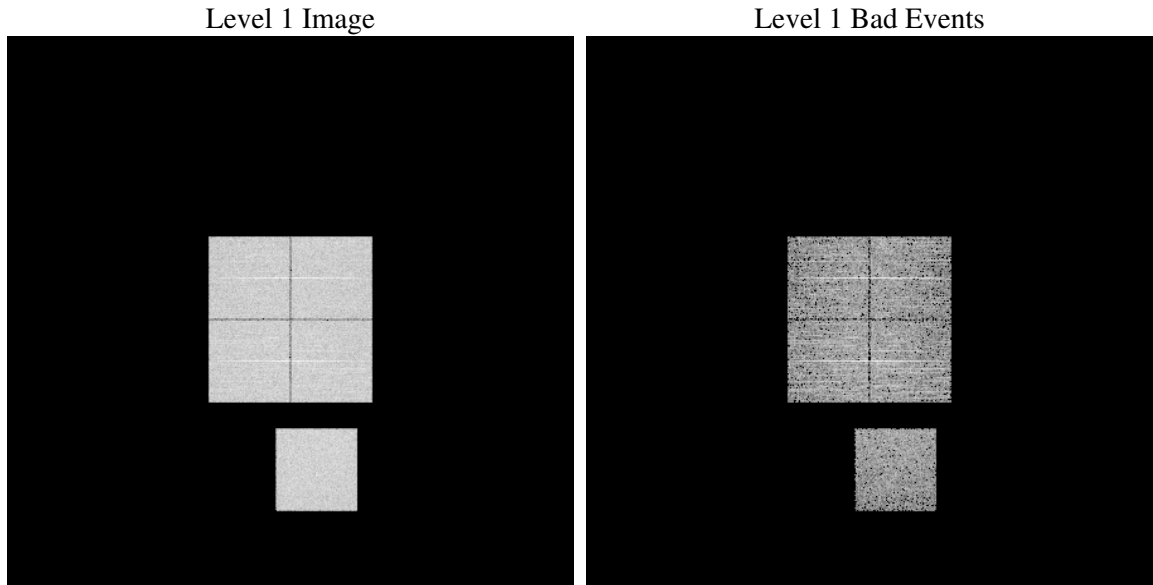
1 Front

seq_num	
obs_id	60013
title	ACIS-01237 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	3.0505806476401
dec_nom	-57.989885042908
roll_nom	347.939523943
revision	3
ontime	4908.2076668739
livetime	2386.3938842933
ontime0	4908.3206574321
ontime1	4908.2795975208
ontime2	4908.2385774255
ontime3	4908.2076469362
ontime7	4908.2076668739
l2events	329573

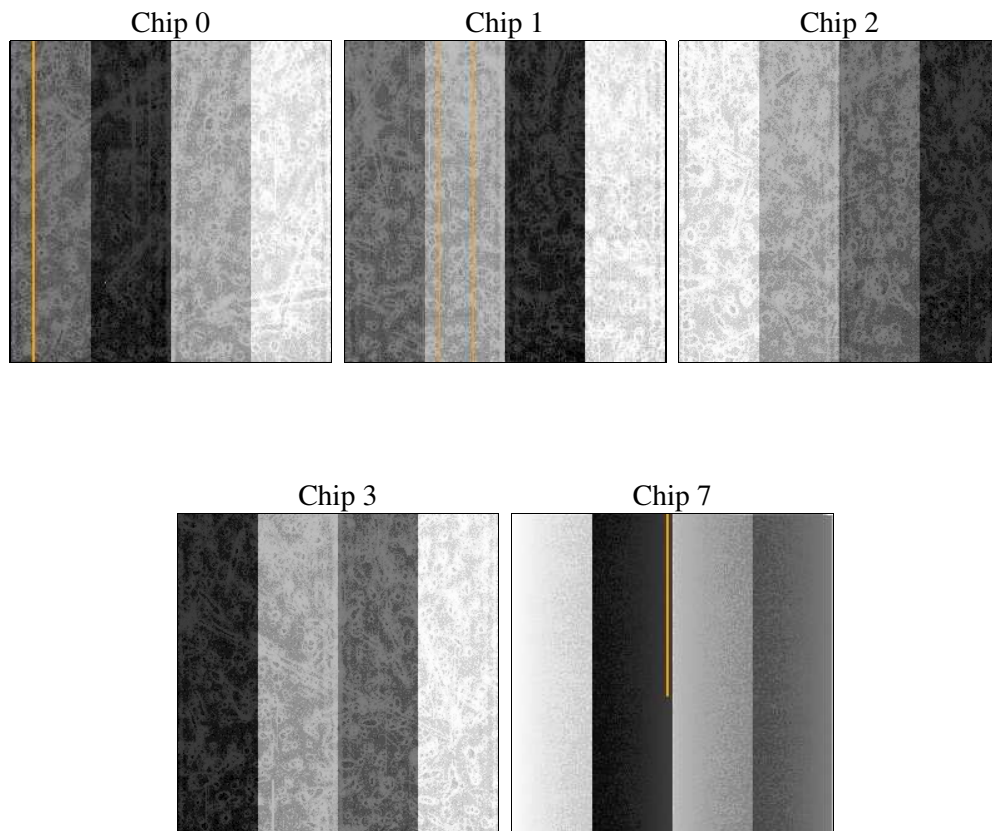
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-04T14:58:29
revision	3

sched_exp_time	6420
ontime	4908.2076668739
ontime0	4908.3206574321
ontime1	4908.2795975208
ontime2	4908.2385774255
ontime3	4908.2076469362
ontime7	4908.2076668739
llevents	449917

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	87039	87495	90874	90968	93541
rejected events	19924	20036	22863	22734	17724
rejected %	22%	22%	25%	24%	18%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	37869	38068	38658	38990	18970
	43%	43%	42%	42%	20%
grade 1 events	230	232	255	249	54
	0%	0%	0%	0%	0%
grade 2 events	11936	12154	11896	11801	17190
	13%	13%	13%	12%	18%
grade 3 events	4474	4311	4641	4686	8103
	5%	4%	5%	5%	8%
grade 4 events	4432	4425	4518	4598	7785
	5%	5%	4%	5%	8%
grade 5 events	1139	1111	1160	1227	2956
	1%	1%	1%	1%	3%
grade 6 events	9846	9995	9769	9627	25440
	11%	11%	10%	10%	27%
grade 7 events	17113	17199	19977	19790	13043
	19%	19%	21%	21%	13%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	3.050580647640136	3.050580647640136
Pointing Dec	-57.9898850429079	-57.9898850429079
Pointing Roll	347.9395239430012	347.9395239430012
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
SIM defocus (mm)	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
SIM translation stage offset (mm)	-0.01005726120527584	-0.01005726120527584
Observation start time	213606241.858429	213606241.858429
Observation start date	2004-10-08T07:31:00	2004-10-08T07:04:01
Observation end time	213615758.576924	213615758.576924
Observation end date	2004-10-08T09:18:00	2004-10-08T09:42:38
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	Y	Y
Primary exposure time	3	3
Secondary exposure time	3.2	3.2
Duty cycle	1	1

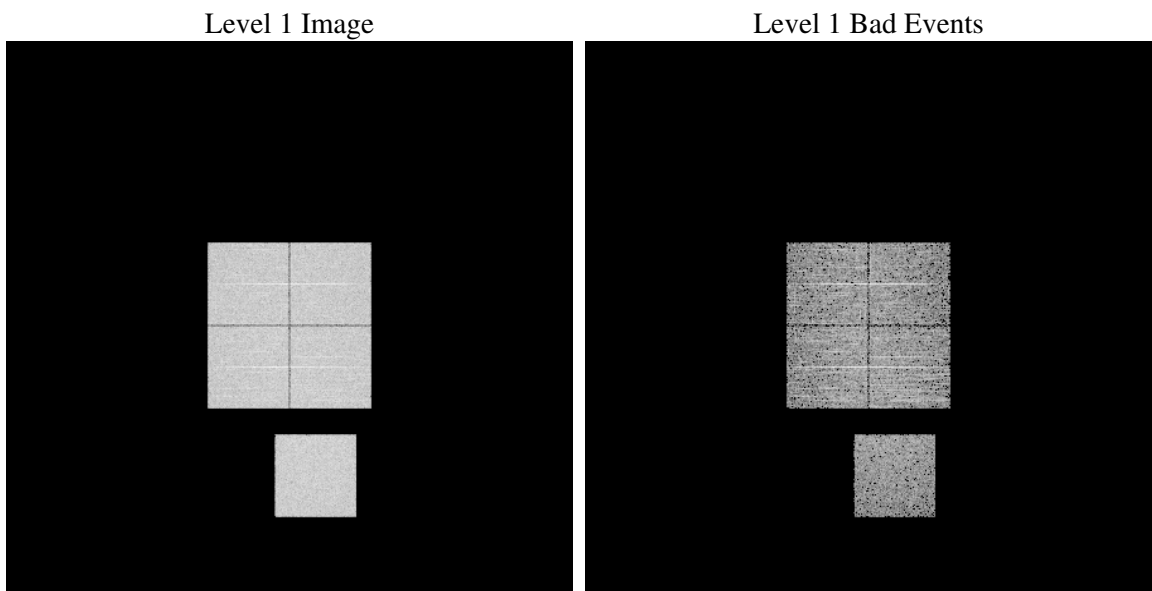
2.3 Star Slots

2.4 FID Slots

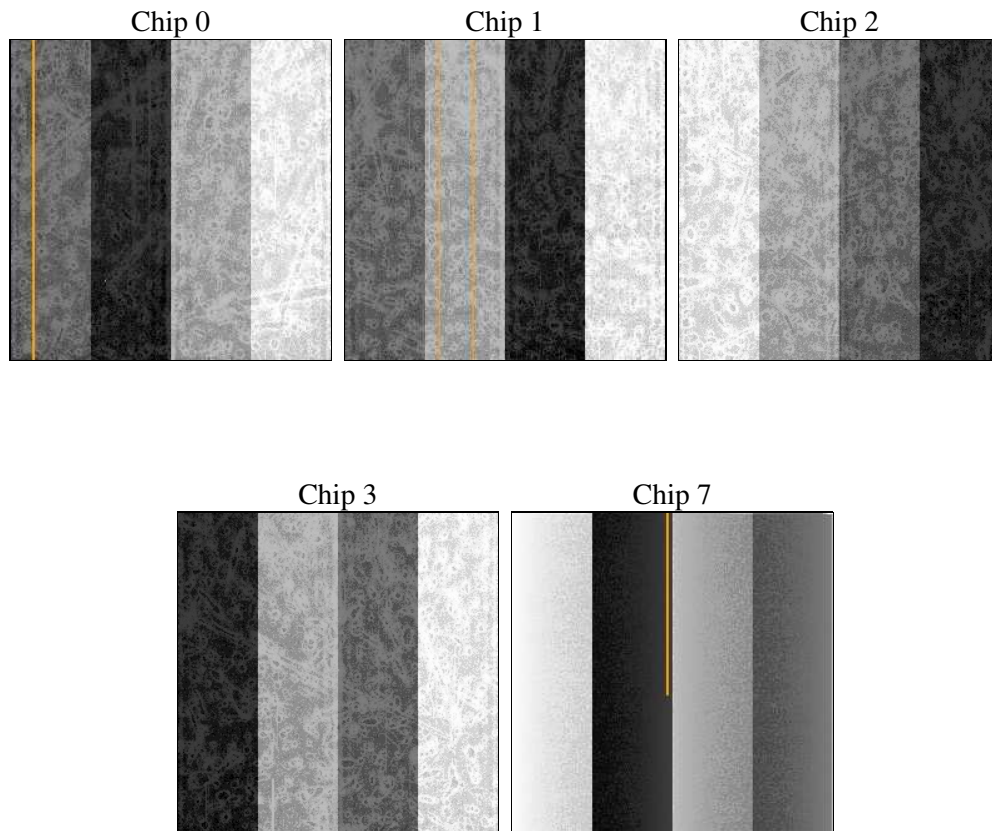
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-02-04T15:45:53
revision	3

sched_exp_time	6420
ontime	2579.8678331375
ontime0	2579.7547529042
ontime1	2579.7958128154
ontime2	2579.8368528187
ontime3	2579.8678331375
ontime7	2579.8678331375
l1events	473201

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	92518	91701	94793	95875	98314
rejected events	20941	19636	22503	23844	18386
rejected %	22%	21%	23%	24%	18%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	40276	40225	41300	41223	19749
	43%	43%	43%	42%	20%
grade 1 events	247	224	274	263	58
	0%	0%	0%	0%	0%
grade 2 events	12773	13023	12494	12594	17802
	13%	14%	13%	13%	18%
grade 3 events	4703	4883	4763	4752	8188
	5%	5%	5%	4%	8%
grade 4 events	4675	4724	4888	4821	8081
	5%	5%	5%	5%	8%
grade 5 events	1201	1147	1115	1250	2961
	1%	1%	1%	1%	3%
grade 6 events	10635	10755	10353	10247	27753
	11%	11%	10%	10%	28%
grade 7 events	18008	16720	19606	20725	13722
	19%	18%	20%	21%	13%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.4880755

A.2 Comments

This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.