

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61990 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 1 2007

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

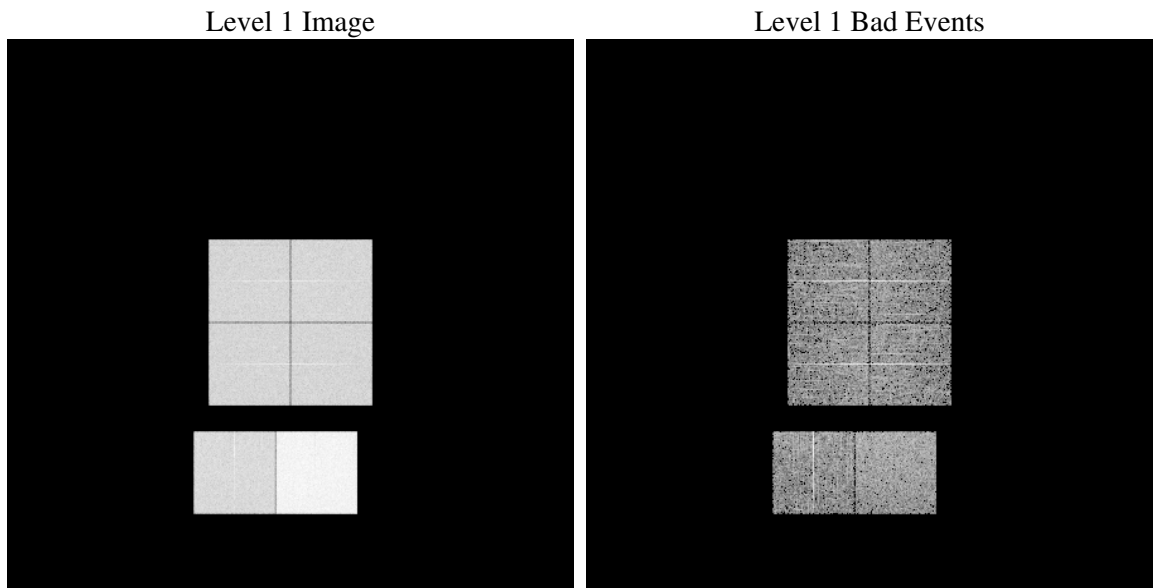
1 Front

seq_num	
obs_id	61990
title	ACIS-012367 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	158.9924131355
dec_nom	-54.37690641723
roll_nom	216.74017069982
revision	4
ontime	5432.1256338954
livetime	5363.3407882856
ontime0	2447.2025022358
ontime1	2502.3409927487
ontime2	2388.9459122121
ontime3	2359.6121231019
ontime6	2609.3773824275
ontime7	5432.1256338954
l2events	1377870

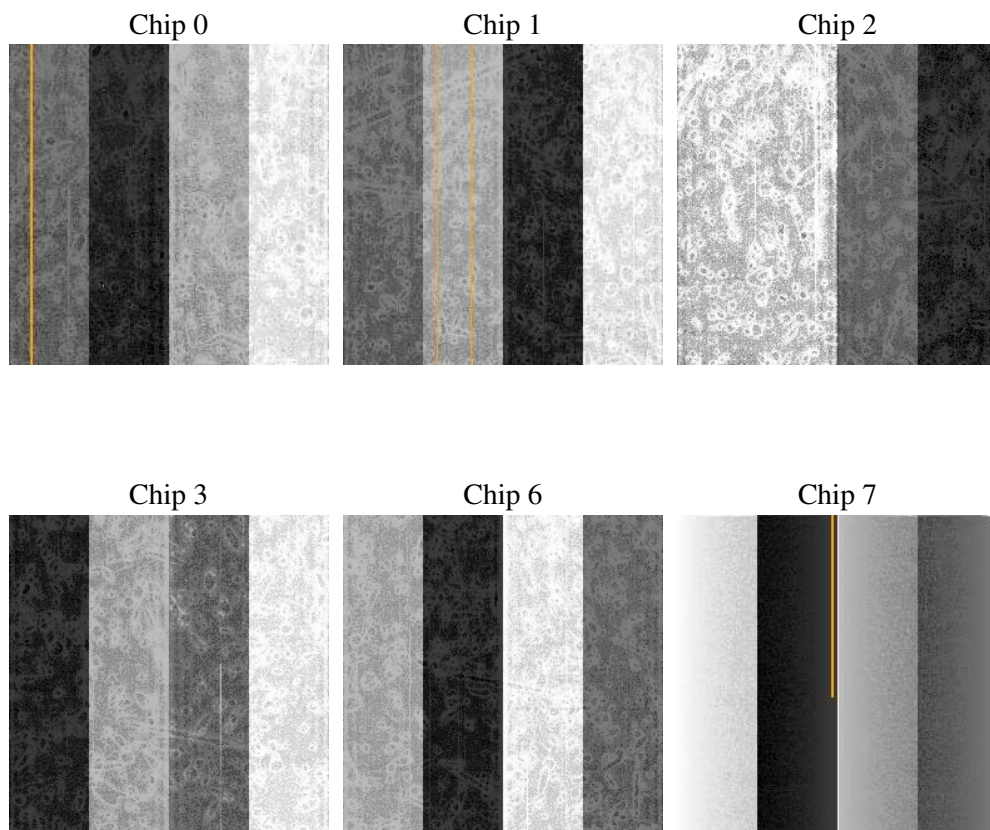
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-01T07:17:53
revision	4

sched_exp_time	0.0
ontime	5432.1256338954
ontime0	2447.2025022358
ontime1	2502.3409927487
ontime2	2388.9459122121
ontime3	2359.6121231019
ontime6	2609.3773824275
ontime7	5432.1256338954
l1events	1554309

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	212689	216981	210614	209760	237382	466883
rejected events	18406	18073	18609	19039	19662	24146
rejected %	8%	8%	8%	9%	8%	5%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	107178	110463	107549	107522	119015	114720
	50%	50%	51%	51%	50%	24%
grade 1 events	578	513	540	511	558	297
	0%	0%	0%	0%	0%	0%
grade 2 events	34389	34954	33388	33388	38070	97865
	16%	16%	15%	15%	16%	20%
grade 3 events	12419	12406	12023	11831	13527	45590
	5%	5%	5%	5%	5%	9%
grade 4 events	12127	12559	12035	11799	13300	45364
	5%	5%	5%	5%	5%	9%
grade 5 events	1341	1459	1358	1435	1608	5730
	0%	0%	0%	0%	0%	1%
grade 6 events	28449	28785	27281	26459	34083	139476
	13%	13%	12%	12%	14%	29%
grade 7 events	16208	15842	16440	16815	17221	17841
	7%	7%	7%	8%	7%	3%

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	158.9924131354952	Alternating exposures requested	N	N
Pointing Dec	0	-54.3769064172299	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	216.7401706998198			
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	80450825.169	80450824.400822			
Observation start date	2000-07-20T03:27:05	2000-07-20T03:27:04			
Observation end time	80461335.52	80461334.751212			
Observation end date	2000-07-20T06:22:16	2000-07-20T06:22:14			
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)	2007.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.43212563

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first ~3 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e. 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.