

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61947 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 6 2007

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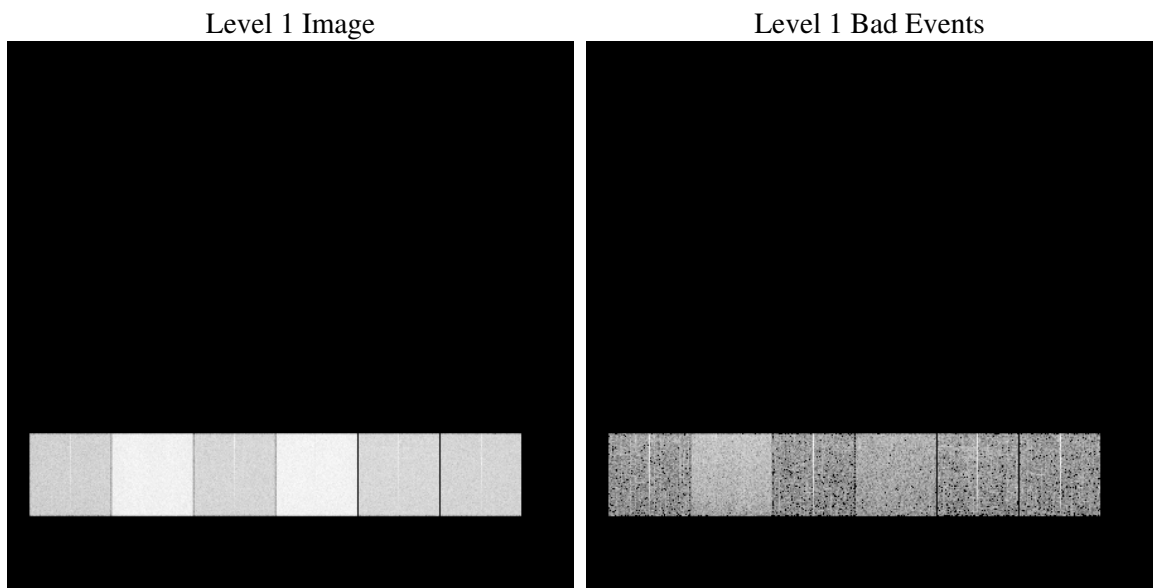
1 Front

seq_num	
obs_id	61947
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	187.74537153088
dec_nom	-37.362642931937
roll_nom	215.50295334501
revision	2
ontime	4881.1220042855
livetime	4819.3142984084
ontime4	2022.6711743474
ontime5	5250.6331072599
ontime6	2187.9230343252
ontime7	4881.1220042855
ontime8	2256.066824466
ontime9	2142.4253743589
l2events	1362596

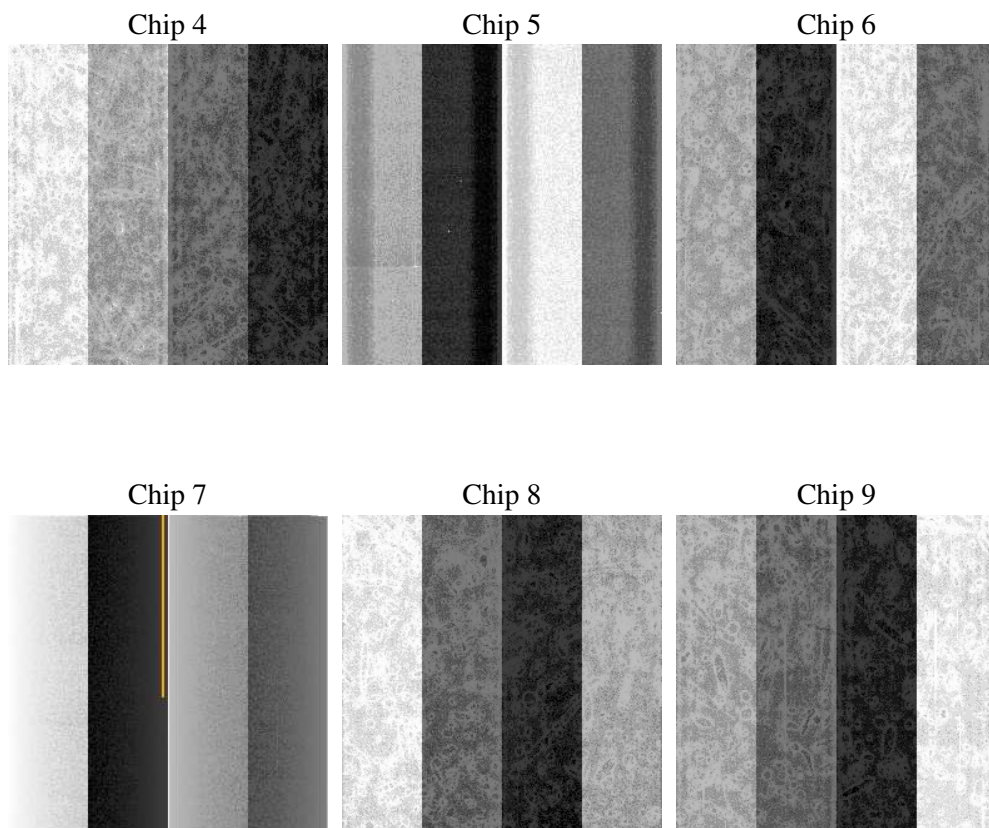
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-07T02:52:23
revision	2

sched_exp_time	0.0
ontime	4881.1220042855
ontime4	2022.6711743474
ontime5	5250.6331072599
ontime6	2187.9230343252
ontime7	4881.1220042855
ontime8	2256.066824466
ontime9	2142.4253743589
l1events	1555525

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	168886	395855	194464	410598	201761	183961
rejected events	18773	39374	17754	24055	19637	17673
rejected %	11%	9%	9%	5%	9%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	85052	84355	96788	99031	100787	91580
	50%	21%	49%	24%	49%	49%
grade 1 events	456	264	496	268	489	444
	0%	0%	0%	0%	0%	0%
grade 2 events	26790	131077	30748	85216	32229	29414
	15%	33%	15%	20%	15%	15%
grade 3 events	8943	22447	10700	39642	11412	10178
	5%	5%	5%	9%	5%	5%
grade 4 events	9096	21948	10869	38994	11324	10309
	5%	5%	5%	9%	5%	5%
grade 5 events	1247	8025	1467	5456	1582	1393
	0%	2%	0%	1%	0%	0%
grade 6 events	20477	96881	27882	123926	26616	25071
	12%	24%	14%	30%	13%	13%
grade 7 events	16825	30858	15514	18065	17322	15572
	9%	7%	7%	4%	8%	8%

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	187.7453715308845	Alternating exposures requested	N	N
Pointing Dec	0	-37.36264293193737	Primary exposure time	3.2	3.2
Pointing Roll	0.0	215.5029533450067			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	84109925.655908	84109924.887455			
Observation start date	2000-08-31T11:52:06	2000-08-31T11:52:04			
Observation end time	84120433.956302	84120433.18785			
Observation end date	2000-08-31T14:47:14	2000-08-31T14:47:13			
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)	2007.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.881122

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the the first 7ksec of the observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for approximately the first 1.5 ksec of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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.