

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61967 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 2 2007

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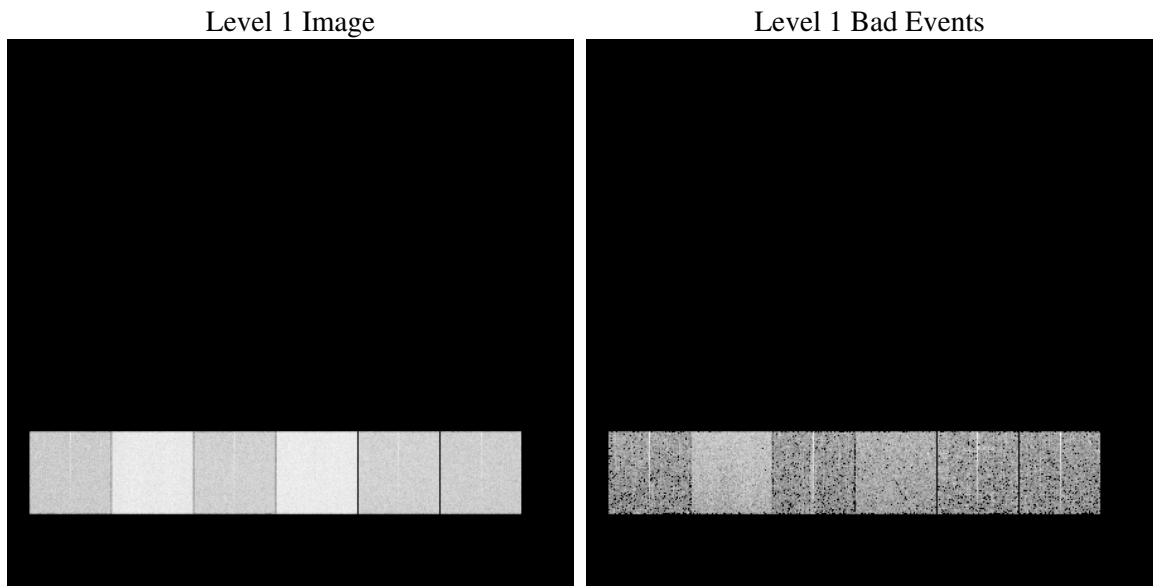
1 Front

seq_num	
obs_id	61967
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	176.83532767599
dec_nom	-44.386626625543
roll_nom	216.14647283566
revision	3
ontime	3684.7337915897
livetime	3638.0754736403
ontime4	1644.3811933547
ontime5	3973.1809767634
ontime6	1762.8132095933
ontime7	3684.7337915897
ontime8	1772.5364991128
ontime9	1689.591712907
l2events	1059917

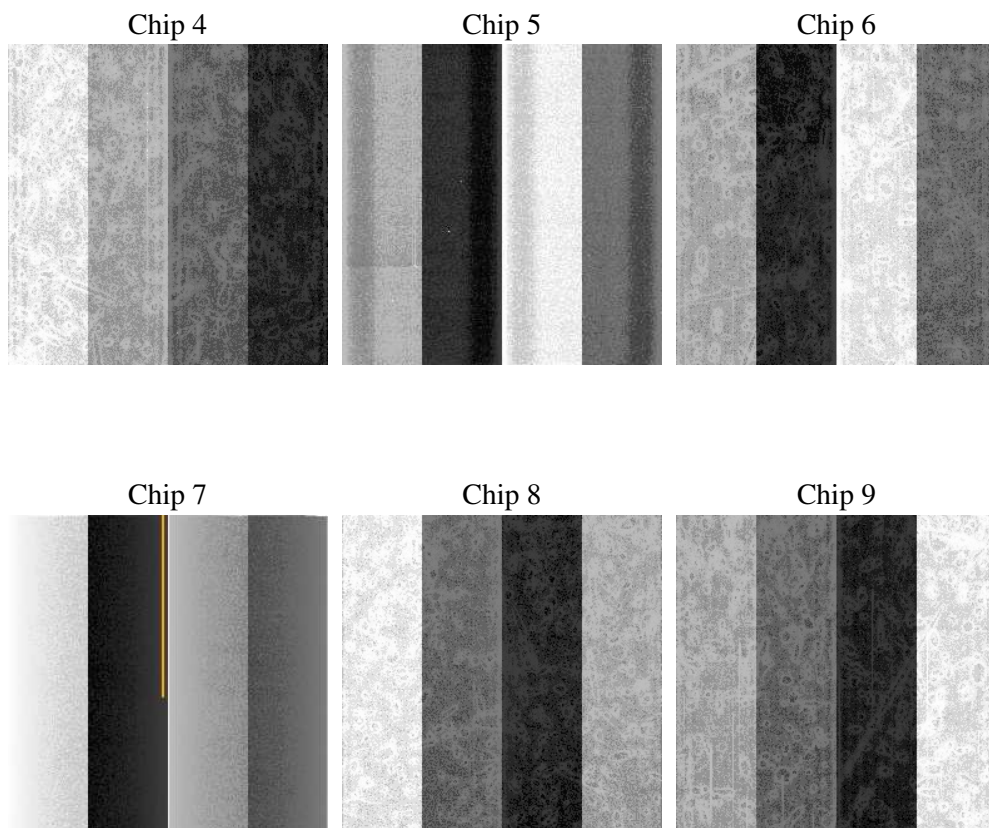
2 OBI

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	2007-06-02T14:25:14
revision	3

sched_exp_time	0.0
ontime	3684.7337915897
ontime4	1644.3811933547
ontime5	3973.1809767634
ontime6	1762.8132095933
ontime7	3684.7337915897
ontime8	1772.5364991128
ontime9	1689.591712907
l1events	1223012

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	138506	303383	159035	314628	160717	146743
rejected events	15692	33615	15766	21188	16785	14940
rejected %	11%	11%	9%	6%	10%	10%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	69394	61650	79217	76228	81227	73581
	50%	20%	49%	24%	50%	50%
grade 1 events	347	202	351	209	357	361
	0%	0%	0%	0%	0%	0%
grade 2 events	23628	103995	25644	65197	25765	23866
	17%	34%	16%	20%	16%	16%
grade 3 events	7331	16364	8707	30550	9072	8229
	5%	5%	5%	9%	5%	5%
grade 4 events	7233	16226	8734	30198	8901	8060
	5%	5%	5%	9%	5%	5%
grade 5 events	1030	6214	1144	4033	1140	1085
	0%	2%	0%	1%	0%	0%
grade 6 events	17278	75475	23185	95385	21049	20408
	12%	24%	14%	30%	13%	13%
grade 7 events	12265	23257	12053	12828	13206	11153
	8%	7%	7%	4%	8%	7%

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	176.8353276759905	Alternating exposures requested	N	N
Pointing Dec	0	-44.38662662554275	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	216.1464728356579			
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	82505661.19599999	82505660.42731			
Observation start date	2000-08-12T22:14:21	2000-08-12T22:14:20			
Observation end time	82516171.546	82516170.777703			
Observation end date	2000-08-13T01:09:32	2000-08-13T01:09:30			
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)	2007.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.68473379

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire 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 3 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.