

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61909 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 8 2007

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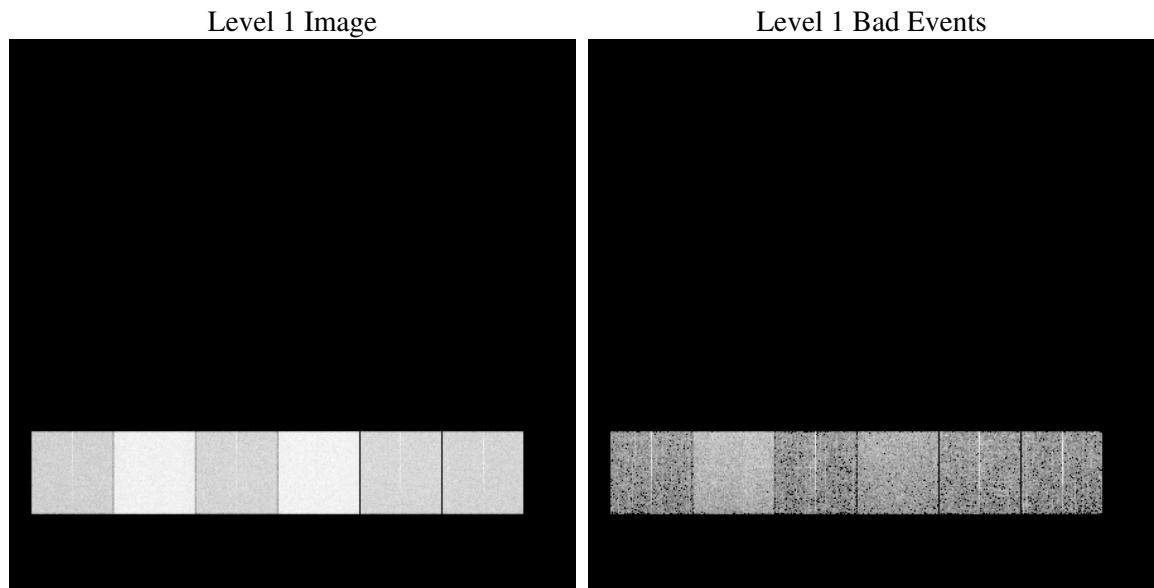
1 Front

seq_num	
obs_id	61909
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtycycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	327.92804392393
dec_nom	-42.327789280942
roll_nom	315.97538696776
revision	2
ontime	4933.7695785016
livetime	4871.2952173392
ontime4	2058.9893354028
ontime5	5322.6864127517
ontime6	2204.835875839
ontime7	4933.7695785016
ontime8	2272.8977655023
ontime9	2186.9644743949
l2events	1357779

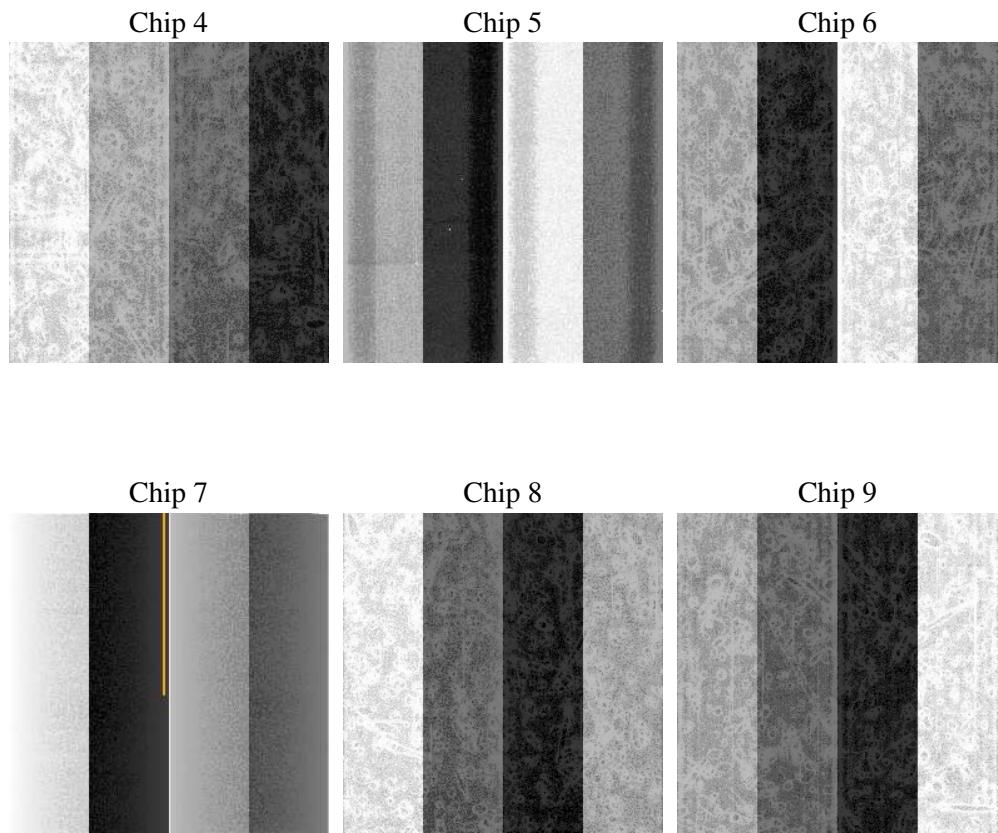
2 OBI

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	2007-06-08T15:55:14
revision	2

sched_exp_time	0.0
ontime	4933.7695785016
ontime4	2058.9893354028
ontime5	5322.6864127517
ontime6	2204.835875839
ontime7	4933.7695785016
ontime8	2272.8977655023
ontime9	2186.9644743949
l1events	1554937

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	170053	395888	192919	410383	200440	185254
rejected events	18936	40449	18244	25384	20178	17922
rejected %	11%	10%	9%	6%	10%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	85532	82349	95659	98739	99934	91921
	50%	20%	49%	24%	49%	49%
grade 1 events	453	217	479	312	457	465
	0%	0%	0%	0%	0%	0%
grade 2 events	27234	132420	30218	84599	31961	29461
	16%	33%	15%	20%	15%	15%
grade 3 events	9103	21842	10535	39376	11171	10162
	5%	5%	5%	9%	5%	5%
grade 4 events	9061	21743	10830	39103	11230	10180
	5%	5%	5%	9%	5%	5%
grade 5 events	1282	7998	1490	5721	1523	1389
	0%	2%	0%	1%	0%	0%
grade 6 events	20436	97280	27673	123182	26220	25608
	12%	24%	14%	30%	13%	13%
grade 7 events	16952	32039	16035	19351	17944	16068
	9%	8%	8%	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	327.9280439239309	Alternating exposures requested	N	N
Pointing Dec	0	-42.32778928094247	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	315.9753869677551			
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	86166774.78300001	86166774.014761			
Observation start date	2000-09-24T07:12:55	2000-09-24T07:12:54			
Observation end time	86177285.134	86177284.36515699			
Observation end date	2000-09-24T10:08:05	2000-09-24T10:08:04			
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)	2007.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.93376957

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 1 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.