

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 60199 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : May 1 2006

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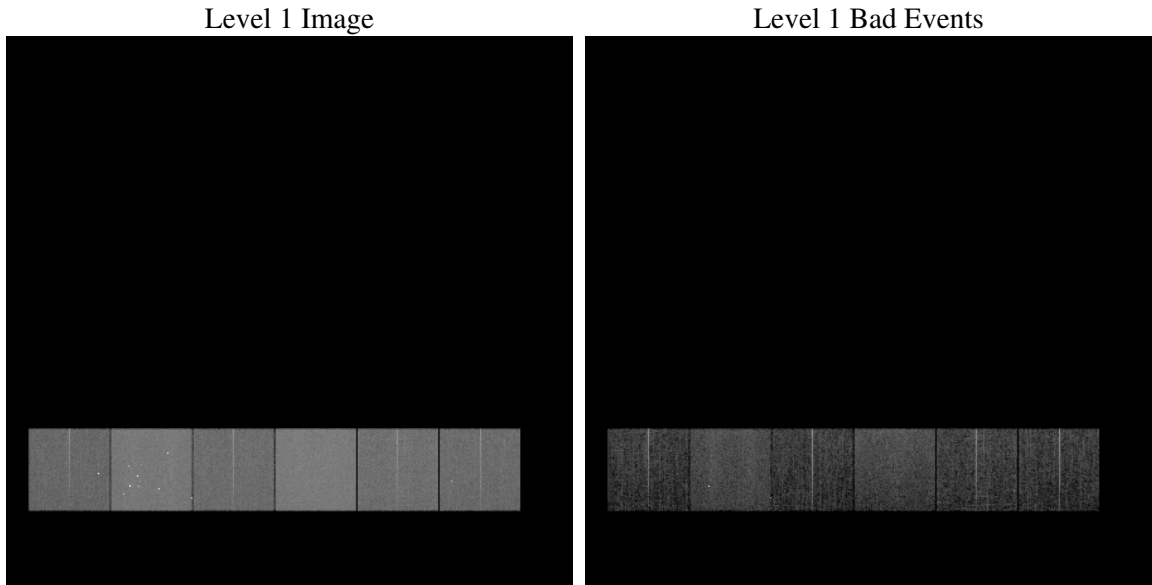
# 1 Front

seq_num	&#160
obs_id	60199
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	&#160
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	241.99418991203
dec_nom	-7.0280031750389
roll_nom	225.48557141422
revision	2
ontime	8275.1421861351
livetime	8170.3573530818
ontime4	5238.470753938
ontime5	8275.1832261384
ontime6	5734.3008283079
ontime7	8275.1421861351
ontime8	5945.045787245
ontime9	5614.2610698938
l2events	1108316

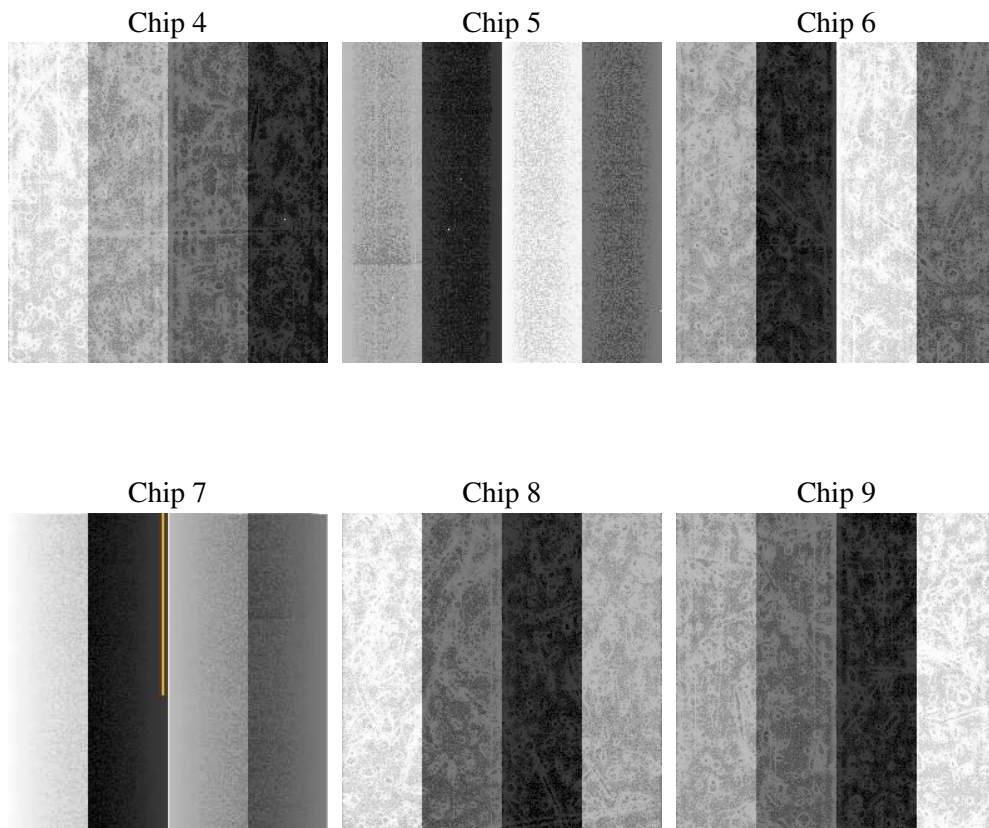
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.1
date	2006-05-01T22:46:44
revision	2

sched_exp_time	0.0
ontime	8277.5268060863
ontime4	5240.7322538793
ontime5	8277.5268060863
ontime6	5736.6033682525
ontime7	8277.5268060863
ontime8	5947.2662472129
ontime9	5616.6867298484
l1events	1498025

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	193379	312227	220960	320278	239239	211942
rejected events	43152	70230	44556	62737	49930	43653
rejected %	22%	22%	20%	19%	20%	20%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	89542	28598	94643	41335	103561	93870
	46%	9%	42%	12%	43%	44%
grade 1 events	703	144	450	83	499	469
	0%	0%	0%	0%	0%	0%
grade 2 events	21973	109719	31949	80474	33373	28082
	11%	35%	14%	25%	13%	13%
grade 3 events	9944	6886	10454	17405	12164	10479
	5%	2%	4%	5%	5%	4%
grade 4 events	10032	6182	10611	17027	12142	10568
	5%	1%	4%	5%	5%	4%
grade 5 events	2405	6614	2727	7080	3293	2912
	1%	2%	1%	2%	1%	1%
grade 6 events	18834	90704	28848	101403	28182	25400
	9%	29%	13%	31%	11%	11%
grade 7 events	39946	63380	41278	55471	46025	40162
	20%	20%	18%	17%	19%	18%

## 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	241.9941899120271	Alternating exposures requested	N	N
Pointing Dec	0	-7.028003175038947	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	225.4855714142159			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	203358240.152541	203358239.12754			
Observation start date	2004-06-11T16:24:00	2004-06-11T16:23:59			
Observation end time	203381788.503584	203381787.47858			
Observation end date	2004-06-11T22:56:29	2004-06-11T22:56:27			
Read mode	TIMED	TIMED			

## 2.3 Aspect



**2.4 Star Slots**

**2.5 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.27514218

## A.2 Comments

The ACIS focal plane temperature increases by a degree over the course of the observation, and is outside of the calibration limits for the entire observation.