

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59418 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

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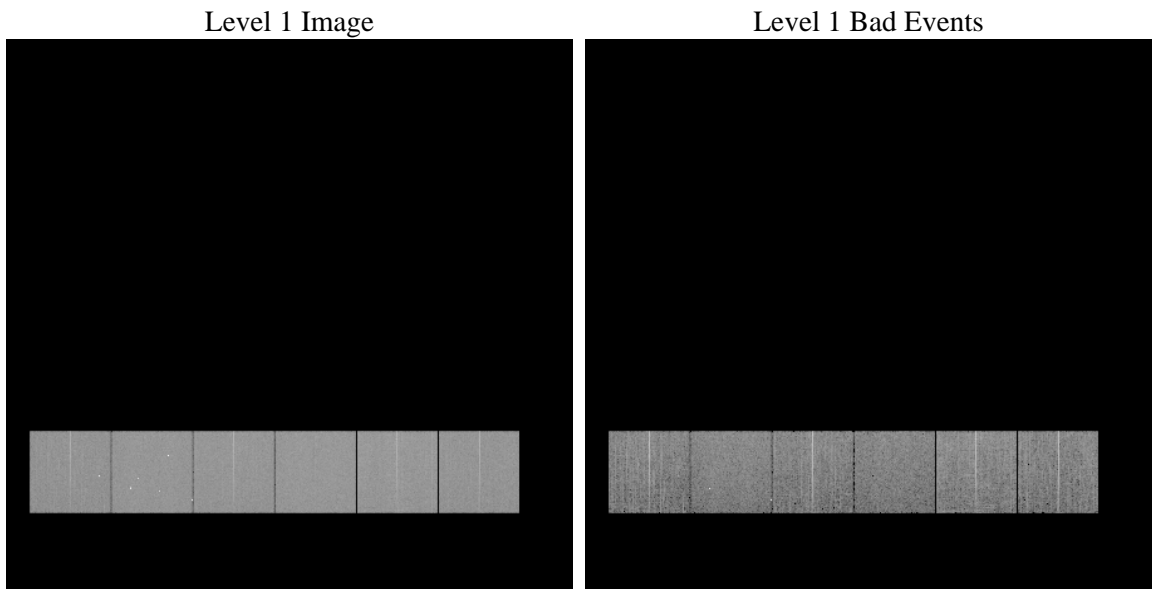
# 1 Front

seq_num	&#160	Sequence number
obs_id	59418	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	344.52548469447	Nominal RA [deg]
dec_nom	-10.013721312273	Nominal Dec [deg]
roll_nom	298.42392902179	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7919.8691355288	Sum of GTIs [s]
livetime	7819.5829837621	Livetime [s]
ontime4	7278.0319164097	Sum of GTIs [s]
ontime5	7923.069075793	Sum of GTIs [s]
ontime6	7793.3888834417	Sum of GTIs [s]
ontime7	7919.8691355288	Sum of GTIs [s]
ontime8	7913.2229950428	Sum of GTIs [s]
ontime9	7608.7761962116	Sum of GTIs [s]
l2events	1010664	Number of level 2 events

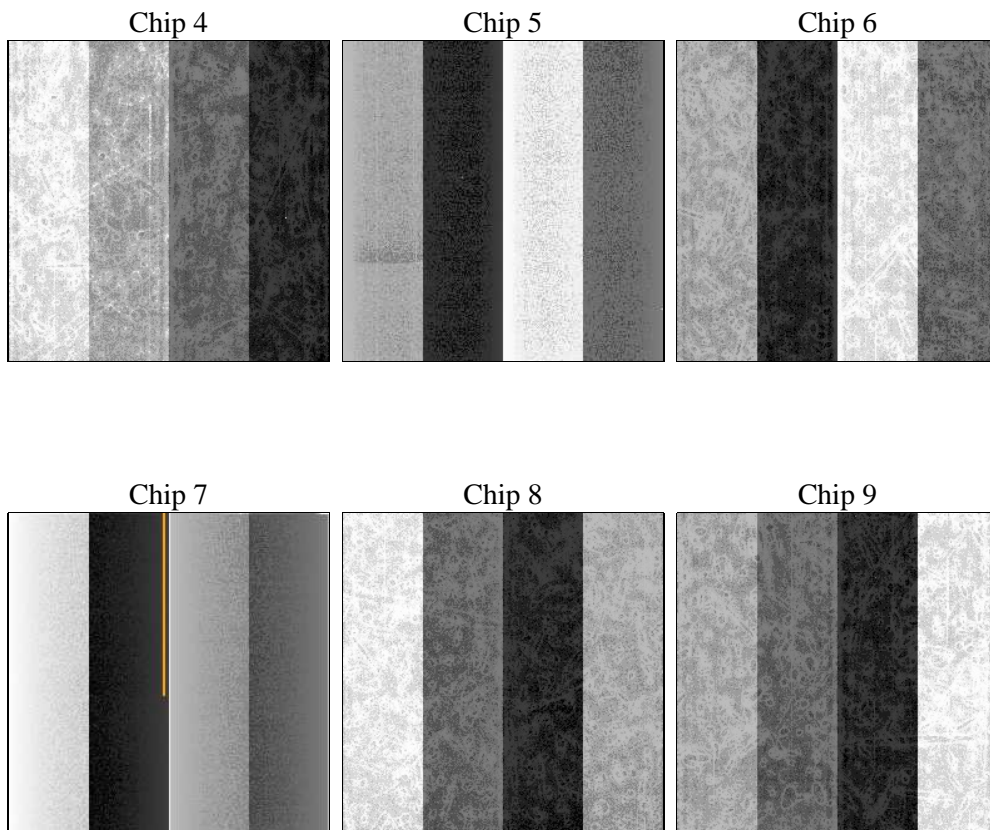
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	7919.8691355288	Sum of GTIs [s]
caldbver	4.5.6	&#160	ontime4	7278.0319164097	Sum of GTIs [s]
date	2013-03-08T21:06:53	Date and time of file creation	ontime5	7923.069075793	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7793.3888834417	Sum of GTIs [s]
			ontime7	7919.8691355288	Sum of GTIs [s]
			ontime8	7913.2229950428	Sum of GTIs [s]
			ontime9	7608.7761962116	Sum of GTIs [s]
			l1events	1419594	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	213699	241796	236503	247257	254826	225513	grade 0 events	91322	41848	97925	46333	102342	92378
rejected events	55648	55620	55329	48612	65063	56181		42%	17%	41%	18%	40%	40%
rejected %	26%	23%	23%	19%	25%	24%	grade 1 events	705	484	517	160	521	506
								0%	0%	0%	0%	0%	0%
							grade 2 events	25290	64892	31442	43508	33430	29239
								11%	26%	13%	17%	13%	12%
							grade 3 events	10634	10826	11254	19824	12638	11056
								4%	4%	4%	8%	4%	4%
							grade 4 events	10482	11302	11513	19300	12461	11075
								4%	4%	4%	7%	4%	4%
							grade 5 events	3290	9227	3690	8635	4472	3842
								1%	3%	1%	3%	1%	1%
							grade 6 events	20343	57308	29040	69680	29045	25584
								9%	23%	12%	28%	11%	11%
							grade 7 events	51633	45909	51122	39817	59917	51833
								24%	18%	21%	16%	23%	22%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	0	344.5254846944746	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-10.01372131227334	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	298.423929021786			
[mm] SIM focus pos	-0.684267	-1.038866356238299			
[mm] SIM defocus	0	0.4944702831659975			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	244714273.72079	244714272.6958			
Observation start date	2005-10-03T08:11:14	2005-10-03T08:11:12			
[s] Observation end time (MET)	244735222.671753	244735221.64676			
Observation end date	2005-10-03T14:00:23	2005-10-03T14:00:21			
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)	2013.03.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9198691355288

## A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files are incorrect by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct. If using the FP temp values in the headers of data files (some CIAO tools require this information), investigators should subtract 1.3 degrees from the reported temperature to determine the true temperature.