

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59447 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

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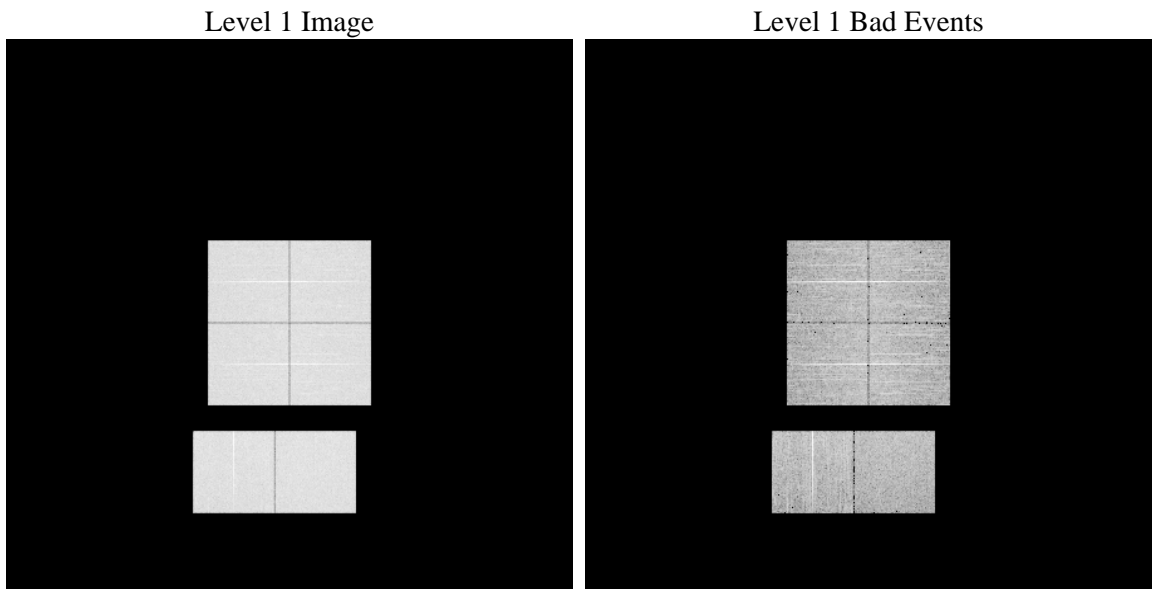
# 1 Front

seq_num	&#160	Sequence number
obs_id	59447	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	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	339.98725864676	Nominal RA [deg]
dec_nom	21.971653036211	Nominal Dec [deg]
roll_nom	213.30613202685	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8238.4944409728	Sum of GTIs [s]
livetime	8134.1736637354	Livetime [s]
ontime0	8235.2125202119	Sum of GTIs [s]
ontime1	8235.1713607907	Sum of GTIs [s]
ontime2	8238.3713209629	Sum of GTIs [s]
ontime3	8238.5354809761	Sum of GTIs [s]
ontime6	8238.3302809894	Sum of GTIs [s]
ontime7	8238.4944409728	Sum of GTIs [s]
l2events	1073453	Number of level 2 events

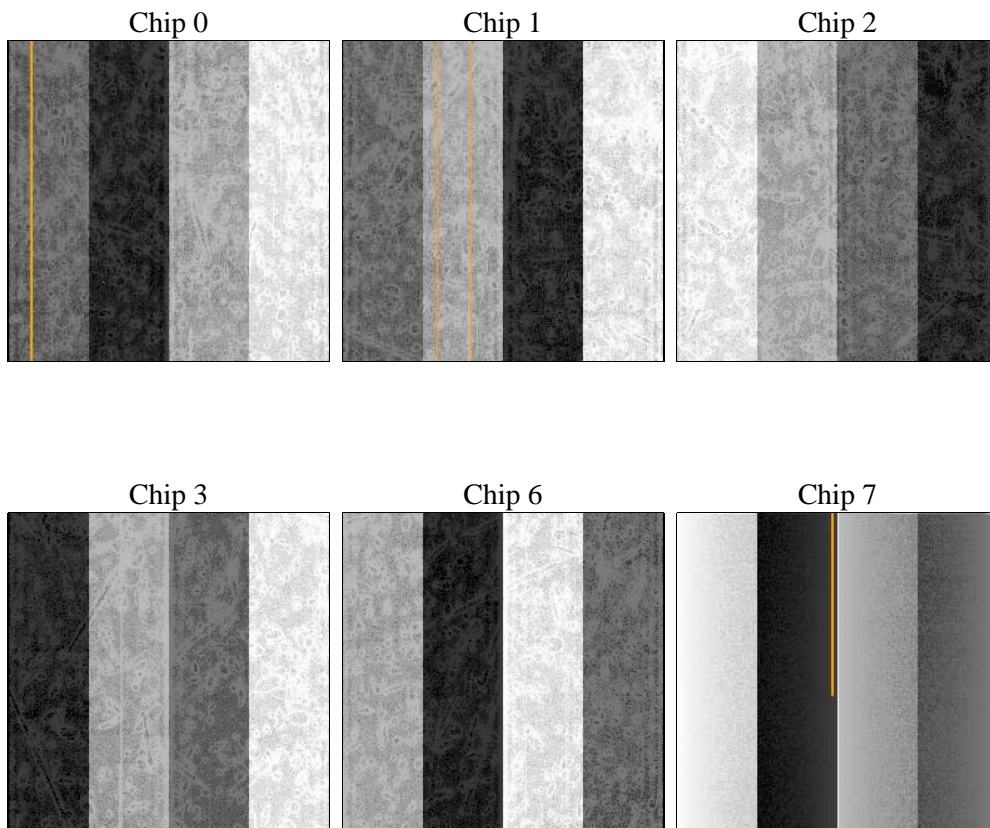
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8238.4944409728	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8235.2125202119	Sum of GTIs [s]
date	2013-03-08T01:52:48	Date and time of file creation	ontime1	8235.1713607907	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	8238.3713209629	Sum of GTIs [s]
			ontime3	8238.5354809761	Sum of GTIs [s]
			ontime6	8238.3302809894	Sum of GTIs [s]
			ontime7	8238.4944409728	Sum of GTIs [s]
			l1events	1420623	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	230696	231898	233978	235853	243355	244843	grade 0 events	101214	100740	104305	104093	104645	48228
rejected events	47697	48703	48353	51467	51478	43390		43%	43%	44%	44%	43%	19%
rejected %	20%	21%	20%	21%	21%	17%	grade 1 events	540	426	543	559	453	149
								0%	0%	0%	0%	0%	0%
							grade 2 events	32317	32775	31732	31500	33117	44320
								14%	14%	13%	13%	13%	18%
							grade 3 events	11772	11779	12138	12048	11963	20142
								5%	5%	5%	5%	4%	8%
							grade 4 events	11919	11646	12198	12120	12193	20009
								5%	5%	5%	5%	5%	8%
							grade 5 events	3010	3001	2793	3130	3359	7427
								1%	1%	1%	1%	1%	3%
							grade 6 events	27007	27416	26419	25799	31167	70027
								11%	11%	11%	10%	12%	28%
							grade 7 events	42917	44115	43850	46604	46458	34541
								18%	19%	18%	19%	19%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	339.9872586467603	Alternating exposures requested	N	N
[deg] Pointing Dec	0	21.97165303621121	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	213.3061320268507			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	243341579.307631	243341578.28266			
Observation start date	2005-09-17T10:52:59	2005-09-17T10:52:58			
[s] Observation end time (MET)	243364734.058693	243364733.03372			
Observation end date	2005-09-17T17:18:54	2005-09-17T17:18:53			
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)	2013.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2384944409728

## 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.