

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59444 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

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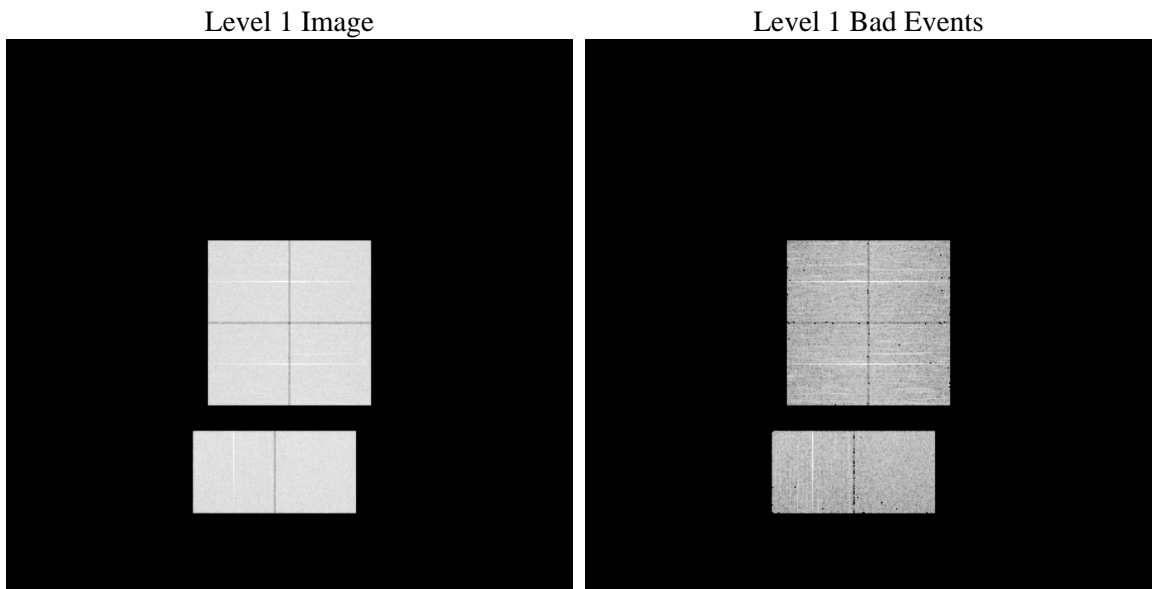
# 1 Front

seq_num	&#160	Sequence number
obs_id	59444	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	15.169616889607	Nominal RA [deg]
dec_nom	21.103888839234	Nominal Dec [deg]
roll_nom	139.29566568778	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7804.7999709249	Sum of GTIs [s]
livetime	7705.9708942067	Livetime [s]
ontime0	7804.7999709249	Sum of GTIs [s]
ontime1	7804.7999709249	Sum of GTIs [s]
ontime2	7804.7999709249	Sum of GTIs [s]
ontime3	7804.7999709249	Sum of GTIs [s]
ontime6	7804.7999709249	Sum of GTIs [s]
ontime7	7804.7999709249	Sum of GTIs [s]
l2events	1049509	Number of level 2 events

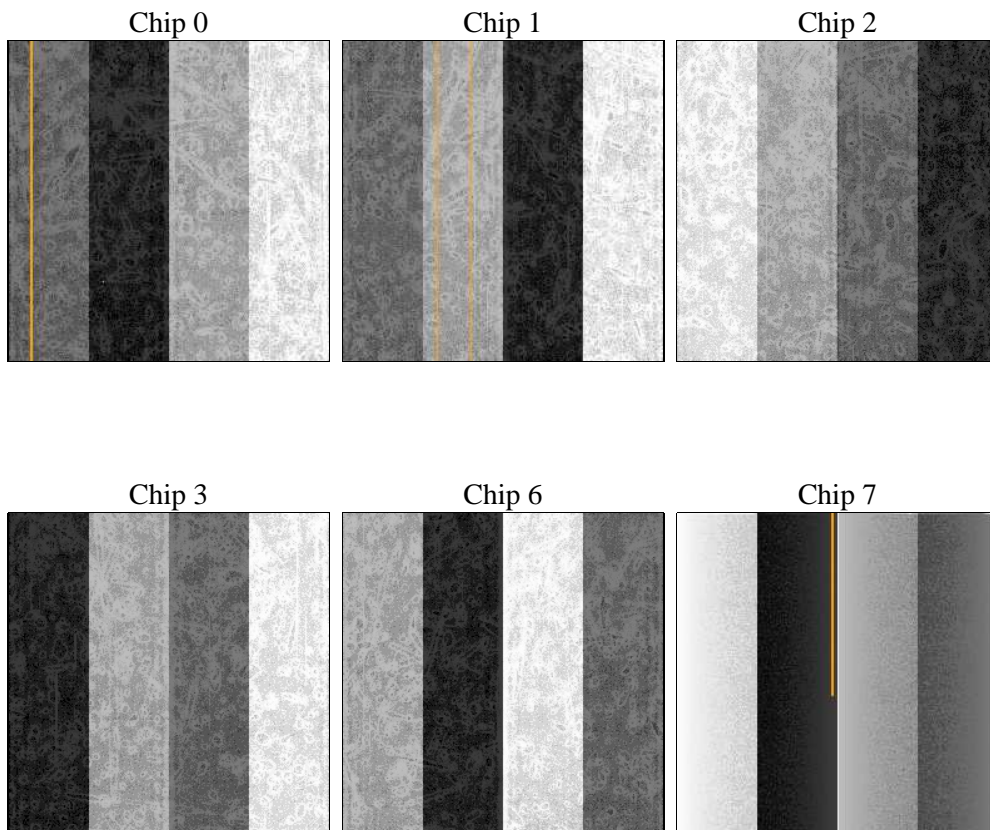
## 2 OBI

### 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	7804.7999709249	Sum of GTIs [s]
caldbver	4.5.6	&#160	ontime0	7804.7999709249	Sum of GTIs [s]
date	2013-03-08T01:52:34	Date and time of file creation	ontime1	7804.7999709249	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	7804.7999709249	Sum of GTIs [s]
			ontime3	7804.7999709249	Sum of GTIs [s]
			ontime6	7804.7999709249	Sum of GTIs [s]
			ontime7	7804.7999709249	Sum of GTIs [s]
			l1events	1389019	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	226926	225131	228581	231697	235949	240735	grade 0 events	98170	97701	100292	101433	100349	47165
rejected events	47799	45990	48746	50454	49447	42568		43%	43%	43%	43%	42%	19%
rejected %	21%	20%	21%	21%	20%	17%	grade 1 events	510	448	540	591	496	138
								0%	0%	0%	0%	0%	0%
							grade 2 events	31277	32177	30260	30862	32415	43398
								13%	14%	13%	13%	13%	18%
							grade 3 events	11635	11431	11624	11922	11545	19261
								5%	5%	5%	5%	4%	8%
							grade 4 events	11635	11250	11635	11791	11808	19396
								5%	4%	5%	5%	5%	8%
							grade 5 events	2895	3001	2876	3297	3286	7666
								1%	1%	1%	1%	1%	3%
							grade 6 events	26410	26675	26090	25235	30468	68947
								11%	11%	11%	10%	12%	28%
							grade 7 events	44394	42448	45264	46566	45582	34764
								19%	18%	19%	20%	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	15.16961688960654	Alternating exposures requested	N	N
[deg] Pointing Dec	0	21.10388883923387	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	139.295665687783			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	243529843.116265	243529842.09131			
Observation start date	2005-09-19T15:10:43	2005-09-19T15:10:42			
[s] Observation end time (MET)	243549369.36716	243549368.34221			
Observation end date	2005-09-19T20:36:09	2005-09-19T20:36:08			
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	7.8047999709249

## 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.