

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60111 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 6 2012

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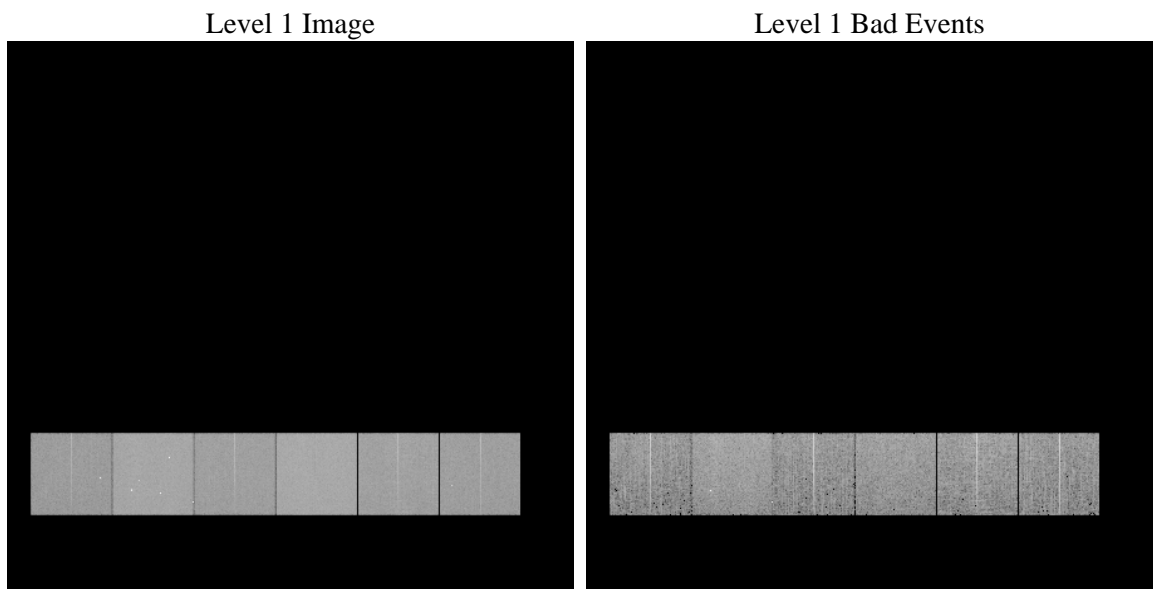
# 1 Front

seq_num	&#160	Sequence number
obs_id	60111	Observation id
title	ACIS-456789 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	0.08658648075648	Nominal RA [deg]
dec_nom	0.11577793548738	Nominal Dec [deg]
roll_nom	113.53837994022	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7977.5999702811	Sum of GTIs [s]
livetime	7876.5827959234	Livetime [s]
ontime4	5358.9008976817	Sum of GTIs [s]
ontime5	7977.5999702811	Sum of GTIs [s]
ontime6	5877.4562883973	Sum of GTIs [s]
ontime7	7977.5999702811	Sum of GTIs [s]
ontime8	5987.6488884985	Sum of GTIs [s]
ontime9	5744.5765866041	Sum of GTIs [s]
l2events	1098217	Number of level 2 events

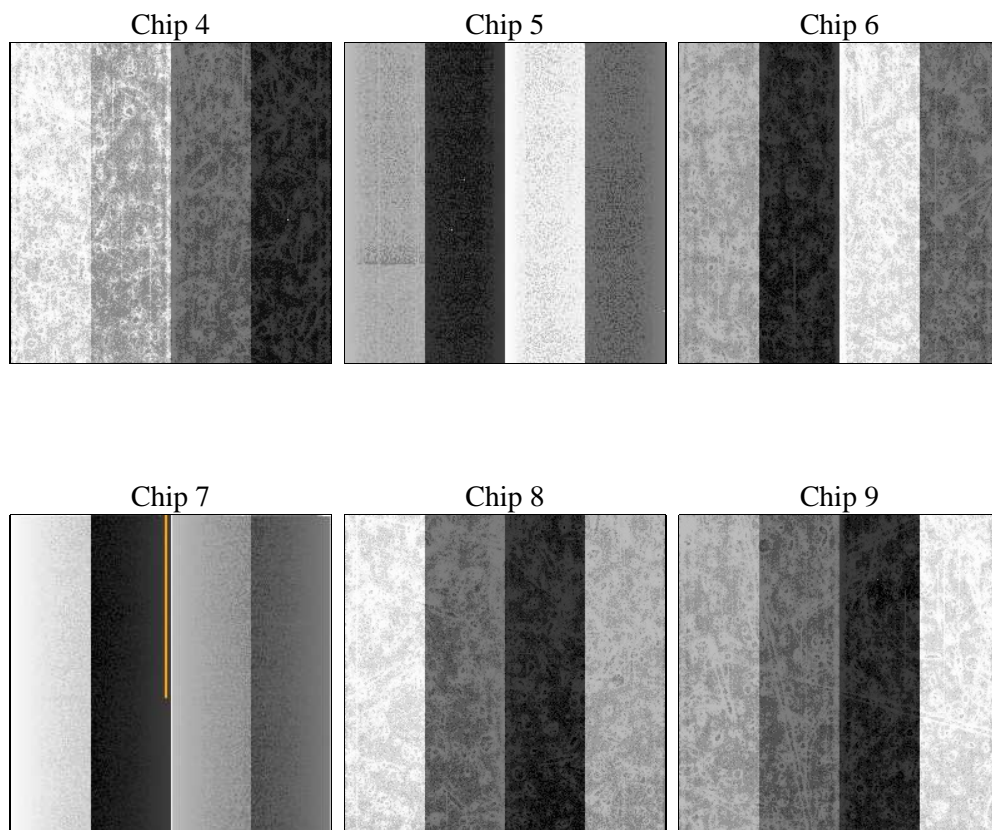
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	4	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	7977.5999702811	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime4	5358.9008976817	Sum of GTIs [s]
date	2012-12-07T03:02:36	Date and time of file creation	ontime5	7977.5999702811	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5877.4562883973	Sum of GTIs [s]
			ontime7	7977.5999702811	Sum of GTIs [s]
			ontime8	5987.6488884985	Sum of GTIs [s]
			ontime9	5744.5765866041	Sum of GTIs [s]
			l1events	1445229	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	193715	284780	220410	299923	234981	211420	grade 0 events	89115	47552	97122	60383	101770	93666
rejected events	41897	56184	42437	47183	48308	43068		46%	16%	44%	20%	43%	44%
rejected %	21%	19%	19%	15%	20%	20%	grade 1 events	707	346	477	197	504	545
								0%	0%	0%	0%	0%	0%
							grade 2 events	23632	86999	30561	55577	32618	28327
								12%	30%	13%	18%	13%	13%
							grade 3 events	9944	12087	10977	24862	12287	10758
								5%	4%	4%	8%	5%	5%
							grade 4 events	10093	11831	11105	25013	11970	10617
								5%	4%	5%	8%	5%	5%
							grade 5 events	2454	8873	2827	8459	3412	2925
								1%	3%	1%	2%	1%	1%
							grade 6 events	19034	70127	28208	86905	28028	24984
								9%	24%	12%	28%	11%	11%
							grade 7 events	38736	46965	39133	38527	44392	39598
								19%	16%	17%	12%	18%	18%

## 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	0.08658648075648046	Alternating exposures requested	N	N
[deg] Pointing Dec	0	0.1157779354873773	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	113.5383799402222			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	207717522.295891	207717521.27089			
Observation start date	2004-08-01T03:18:42	2004-08-01T03:18:41			
[s] Observation end time (MET)	207727237.246323	207727236.22133			
Observation end date	2004-08-01T06:00:37	2004-08-01T06:00:36			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9775999702811

### A.2 Comments