

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60121 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 6 2012

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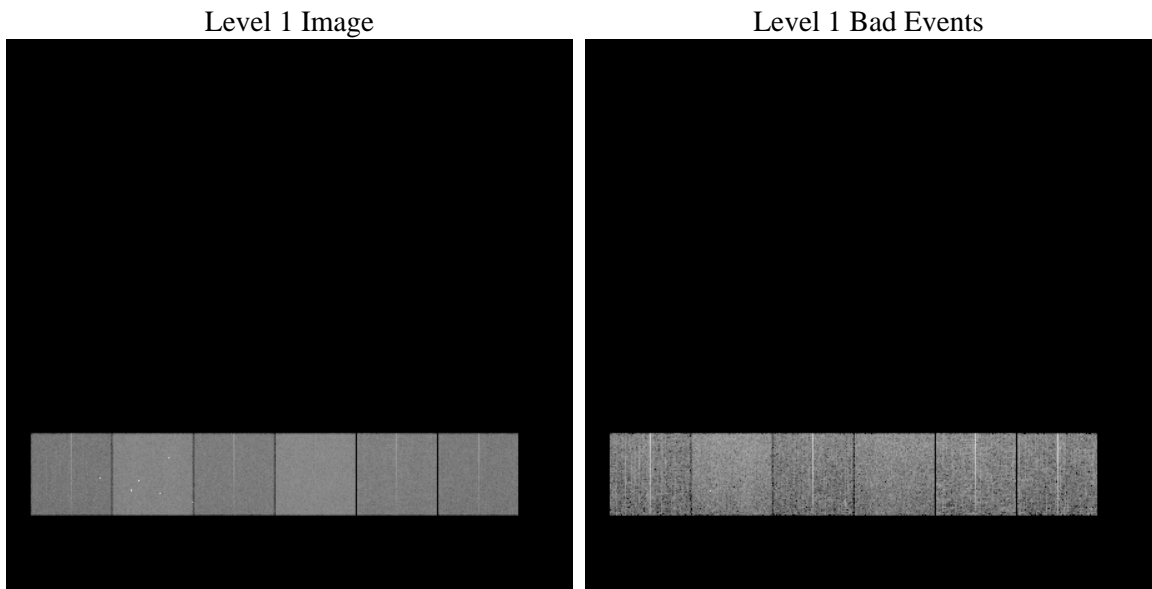
# 1 Front

seq_num	&#160	Sequence number
obs_id	60121	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	212.50646153922	Nominal RA [deg]
dec_nom	-2.0279240385432	Nominal Dec [deg]
roll_nom	250.12922121452	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7800.7708882689	Sum of GTIs [s]
livetime	7701.9928302214	Livetime [s]
ontime4	5240.7238703668	Sum of GTIs [s]
ontime5	7800.7298482656	Sum of GTIs [s]
ontime6	5707.0254086554	Sum of GTIs [s]
ontime7	7800.7708882689	Sum of GTIs [s]
ontime8	5810.6539285183	Sum of GTIs [s]
ontime9	5447.8710069656	Sum of GTIs [s]
l2events	1092299	Number of level 2 events

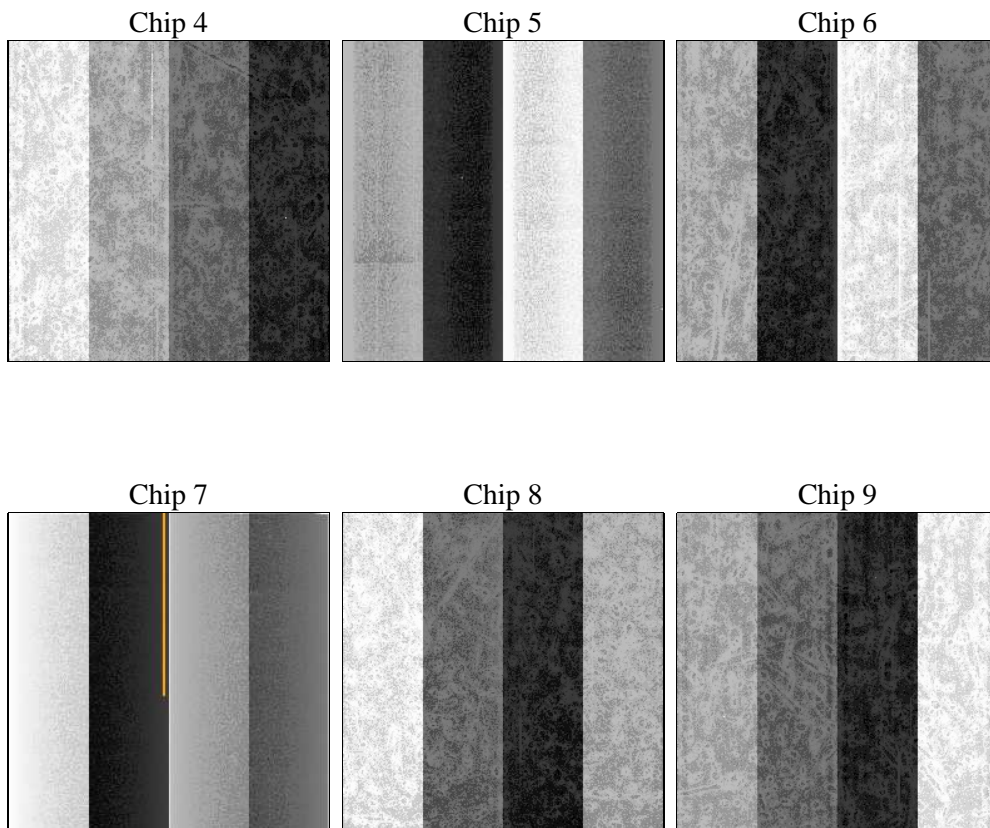
## 2 OBI

### 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	Processing system revision	ontime	7800.7708882689	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime4	5240.7238703668	Sum of GTIs [s]
date	2012-12-06T12:52:18	Date and time of file creation	ontime5	7800.7298482656	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5707.0254086554	Sum of GTIs [s]
			ontime7	7800.7708882689	Sum of GTIs [s]
			ontime8	5810.6539285183	Sum of GTIs [s]
			ontime9	5447.8710069656	Sum of GTIs [s]
			l1events	1414201	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	191650	278299	216634	295582	229844	202192	grade 0 events	88799	53737	96839	61755	100713	89631
rejected events	38614	50786	38155	43546	44722	39351		46%	19%	44%	20%	43%	44%
rejected %	20%	18%	17%	14%	19%	19%	grade 1 events	634	469	443	184	523	541
								0%	0%	0%	0%	0%	0%
							grade 2 events	24245	80128	30800	55716	32230	27969
								12%	28%	14%	18%	14%	13%
							grade 3 events	10140	13658	11186	25323	12047	10384
								5%	4%	5%	8%	5%	5%
							grade 4 events	10147	13646	11091	25189	12085	10365
								5%	4%	5%	8%	5%	5%
							grade 5 events	2301	8242	2685	7913	3121	2742
								1%	2%	1%	2%	1%	1%
							grade 6 events	19705	66344	28563	84053	28047	24492
								10%	23%	13%	28%	12%	12%
							grade 7 events	35679	42075	35027	35449	41078	36068
								18%	15%	16%	11%	17%	17%

## 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	212.5064615392227	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-2.027924038543225	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	250.1292212145246			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	206981029.013156	206981027.98815			
Observation start date	2004-07-23T14:43:49	2004-07-23T14:43:47			
[s] Observation end time (MET)	206996059.613823	206996058.58882			
Observation end date	2004-07-23T18:54:20	2004-07-23T18:54:18			
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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8007708882689

### A.2 Comments