

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 55985 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 4 2012

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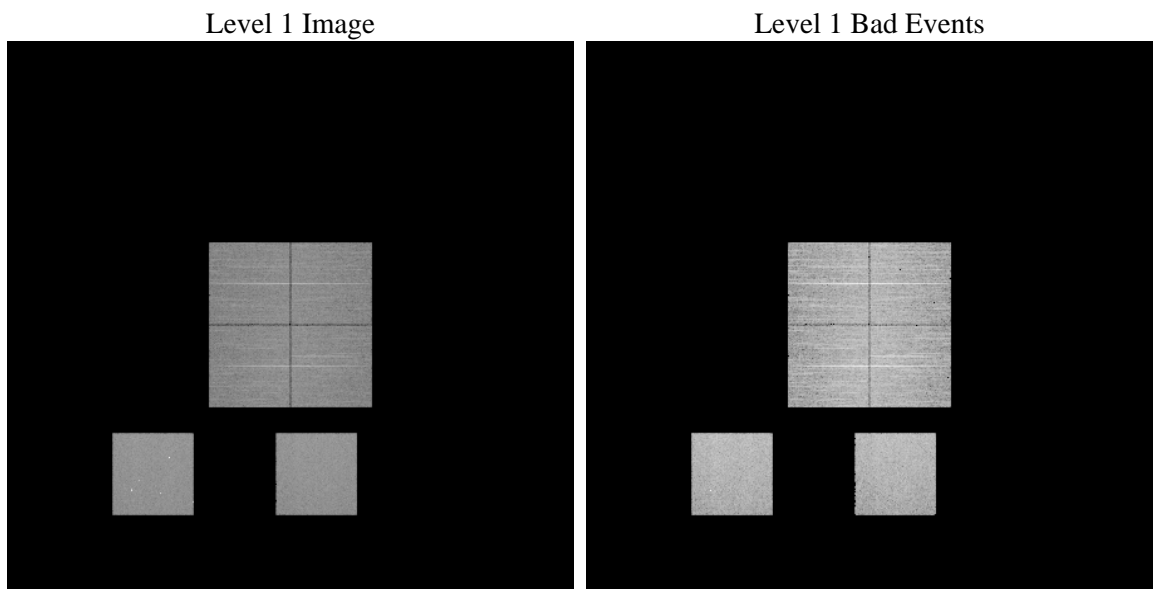
# 1 Front

seq_num	&#160	Sequence number
obs_id	55985	Observation id
title	ACIS-012357 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	8.983072152496	Nominal RA [deg]
dec_nom	19.475983734194	Nominal Dec [deg]
roll_nom	203.53765039577	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8223.9999694228	Sum of GTIs [s]
livetime	8119.8627299117	Livetime [s]
ontime0	8223.9999694228	Sum of GTIs [s]
ontime1	8223.9999694228	Sum of GTIs [s]
ontime2	8223.9999694228	Sum of GTIs [s]
ontime3	8223.9999694228	Sum of GTIs [s]
ontime5	8223.9999694228	Sum of GTIs [s]
ontime7	8223.9999694228	Sum of GTIs [s]
l2events	400754	Number of level 2 events

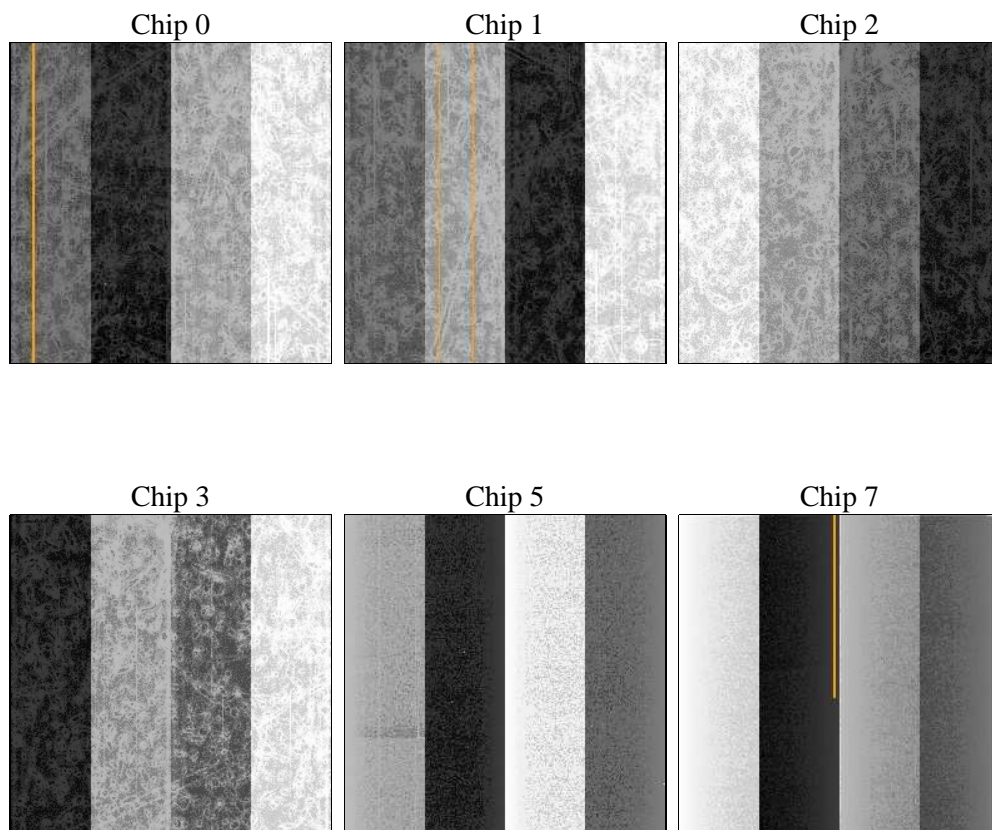
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	8223.9999694228	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	8223.9999694228	Sum of GTIs [s]
date	2012-07-04T19:03:55	Date and time of file creation	ontime1	8223.9999694228	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8223.9999694228	Sum of GTIs [s]
			ontime3	8223.9999694228	Sum of GTIs [s]
			ontime5	8223.9999694228	Sum of GTIs [s]
			ontime7	8223.9999694228	Sum of GTIs [s]
			l1events	814605	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	119342	120870	123384	126770	164848	159391	grade 0 events	30773	30357	31709	31656	15132	16306
rejected events	61184	62215	65151	68613	67027	66504		25%	25%	25%	24%	9%	10%
rejected %	51%	51%	52%	54%	40%	41%	grade 1 events	209	151	230	230	199	141
								0%	0%	0%	0%	0%	0%
							grade 2 events	10725	11385	10287	10358	34015	20217
								8%	9%	8%	8%	20%	12%
							grade 3 events	4031	3985	3967	4063	4486	8546
								3%	3%	3%	3%	2%	5%
							grade 4 events	3893	3893	4048	3981	4303	8405
								3%	3%	3%	3%	2%	5%
							grade 5 events	3778	3866	3516	4241	8846	10712
								3%	3%	2%	3%	5%	6%
							grade 6 events	9101	9449	8651	8491	40588	40041
								7%	7%	7%	6%	24%	25%
							grade 7 events	56832	57784	60976	63750	57279	55023
								47%	47%	49%	50%	34%	34%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	8.983072152495993
[deg] Pointing Dec	0	19.47598373419372
[deg] Pointing Roll	0.0	203.5376503957709
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	403012912.938356	403012911.91335
Observation start date	2010-10-09T12:01:53	2010-10-09T12:01:51
[s] Observation end time (MET)	403022679.138858	403022678.11385
Observation end date	2010-10-09T14:44:39	2010-10-09T14:44:38
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## **A Summary**

### **A.1 Status**

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2239999694228

### **A.2 Comments**