

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53496 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Aug 7 2013

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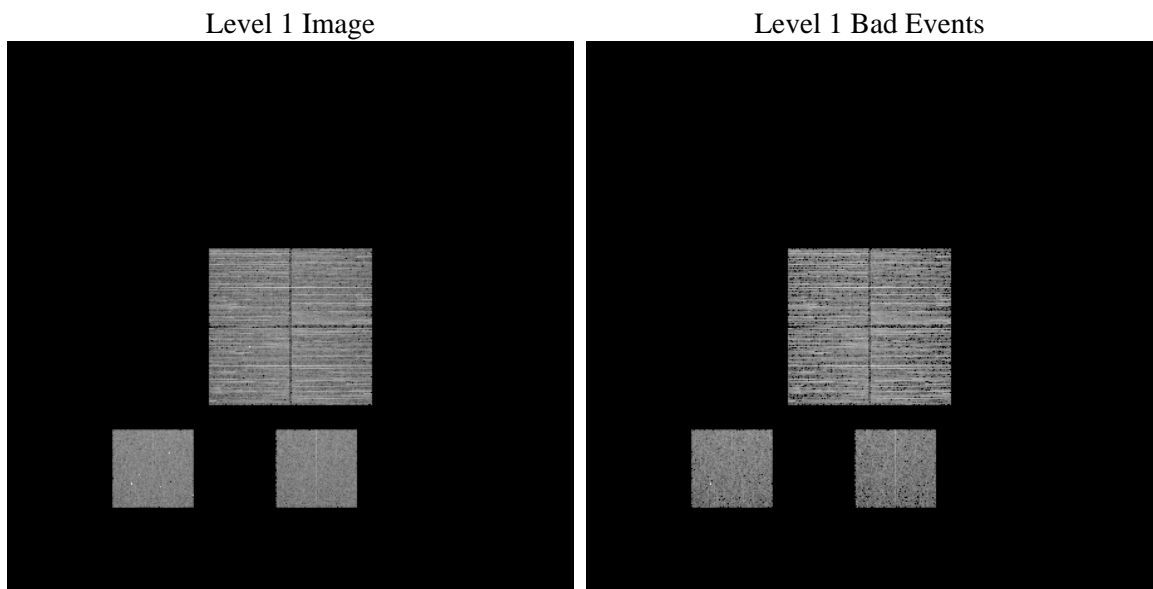
# 1 Front

seq_num	&#160	Sequence number
obs_id	53496	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	292.05808735476	Nominal RA [deg]
dec_nom	-0.89875561430179	Nominal Dec [deg]
roll_nom	235.18987500001	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3286.4028192759	Sum of GTIs [s]
livetime	3244.788407944	Livetime [s]
ontime0	3289.029558599	Sum of GTIs [s]
ontime1	3288.9885185957	Sum of GTIs [s]
ontime2	3288.9474785924	Sum of GTIs [s]
ontime3	3286.4028192759	Sum of GTIs [s]
ontime5	3288.9064385891	Sum of GTIs [s]
ontime7	3286.4028192759	Sum of GTIs [s]
l2events	90050	Number of level 2 events

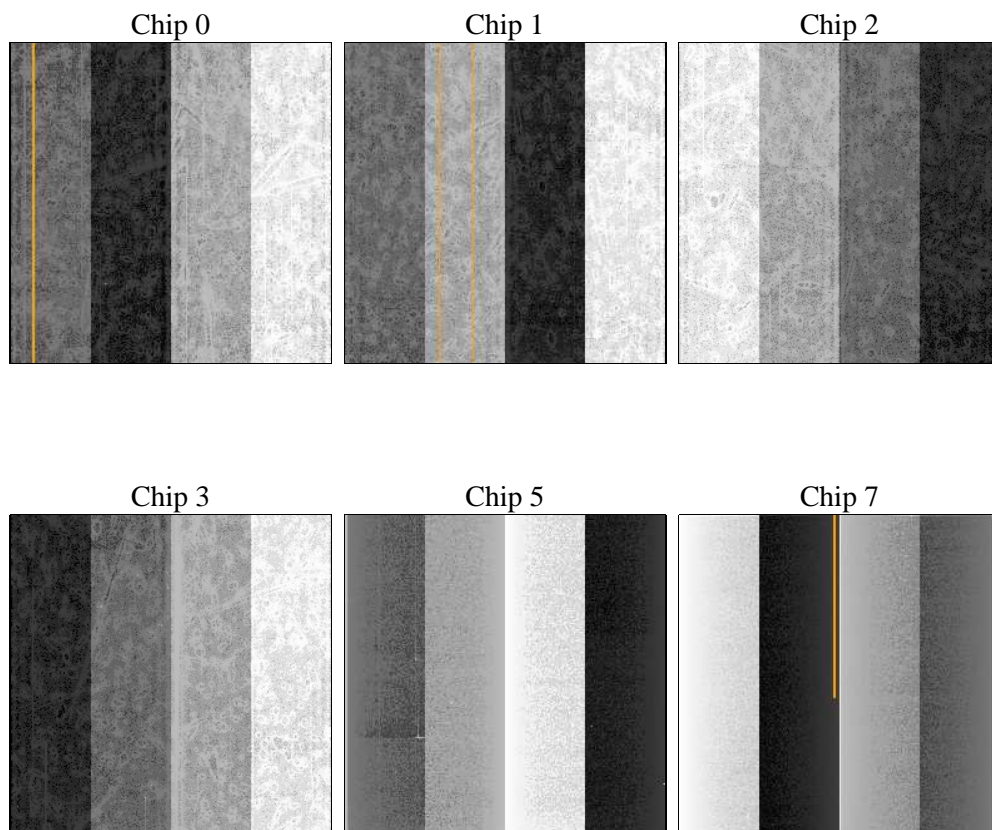
## 2 OBI

### 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	10	Processing system revision	ontime	3286.4028192759	Sum of GTIs [s]
caldsver	4.5.7	&#160	ontime0	3289.029558599	Sum of GTIs [s]
date	2013-08-07T16:23:37	Date and time of file creation	ontime1	3288.9885185957	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3288.9474785924	Sum of GTIs [s]
			ontime3	3286.4028192759	Sum of GTIs [s]
			ontime5	3288.9064385891	Sum of GTIs [s]
			ontime7	3286.4028192759	Sum of GTIs [s]
			l1events	328865	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	57678	55179	58247	57732	52592	47437	grade 0 events	6231	6262	7418	6360	3458	3277
rejected events	45427	42679	44963	45459	28031	25203		10%	11%	12%	11%	6%	6%
rejected %	78%	77%	77%	78%	53%	53%	grade 1 events	31	24	37	27	56	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	2423	2530	2361	2282	8959	5461
								4%	4%	4%	3%	17%	11%
							grade 3 events	830	861	786	894	803	1787
								1%	1%	1%	1%	1%	3%
							grade 4 events	846	864	823	852	802	1793
								1%	1%	1%	1%	1%	3%
							grade 5 events	1083	1110	1038	1187	2334	2807
								1%	2%	1%	2%	4%	5%
							grade 6 events	1921	1983	1896	1885	10539	9916
								3%	3%	3%	3%	20%	20%
							grade 7 events	44313	41545	43888	44245	25641	22369
								76%	75%	75%	76%	48%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	292.0580873547608	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.8987556143017873	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	235.1898750000059	[s] Primary exposure time	3.2	3.2
[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)	492156870.845642	492156869.82064			
Observation start date	2013-08-06T06:14:31	2013-08-06T06:14:29			
[s] Observation end time (MET)	492163393.945997	492163392.921			
Observation end date	2013-08-06T08:03:14	2013-08-06T08:03:12			
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)	2013.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2864028192759

### A.2 Comments