

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53623 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 19 2013

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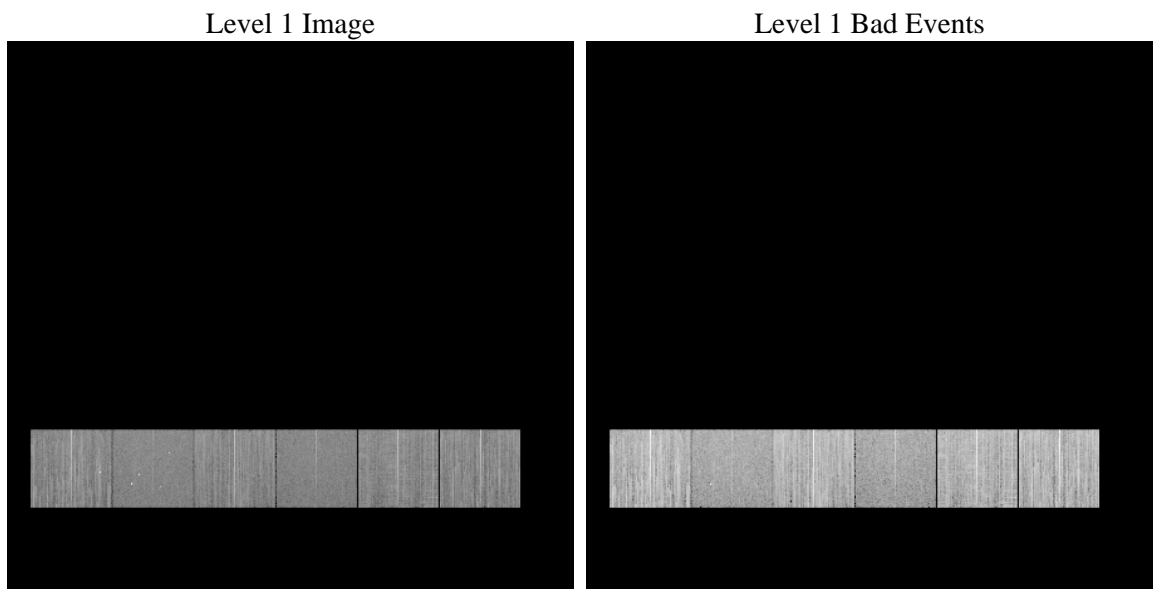
# 1 Front

seq_num	&#160	Sequence number
obs_id	53623	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	273.02441130673	Nominal RA [deg]
dec_nom	-39.978245294932	Nominal Dec [deg]
roll_nom	16.410914144317	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8283.5676235557	Sum of GTIs [s]
livetime	8178.6761025406	Livetime [s]
ontime4	8283.4445035458	Sum of GTIs [s]
ontime5	8283.5265835524	Sum of GTIs [s]
ontime6	8283.4855435491	Sum of GTIs [s]
ontime7	8283.5676235557	Sum of GTIs [s]
ontime8	8283.4034635425	Sum of GTIs [s]
ontime9	8283.608663559	Sum of GTIs [s]
l2events	237582	Number of level 2 events

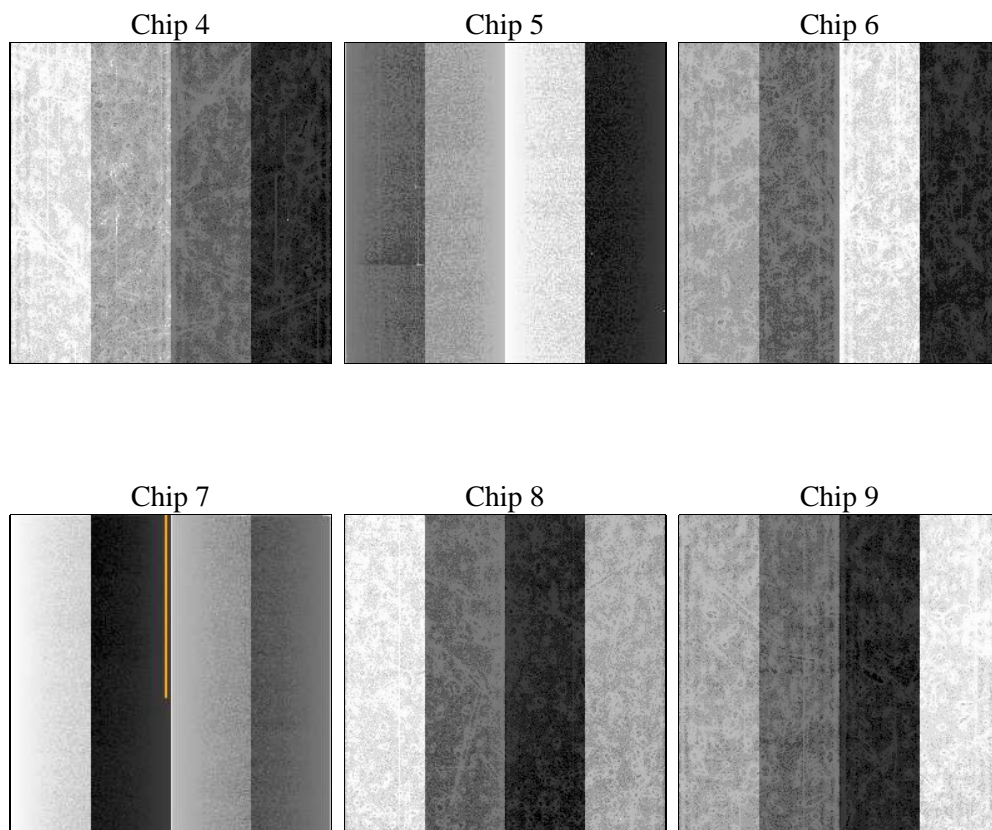
## 2 OBI

### 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	10	Processing system revision	ontime	8283.5676235557	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	8283.4445035458	Sum of GTIs [s]
date	2013-06-20T00:49:01	Date and time of file creation	ontime5	8283.5265835524	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8283.4855435491	Sum of GTIs [s]
			ontime7	8283.5676235557	Sum of GTIs [s]
			ontime8	8283.4034635425	Sum of GTIs [s]
			ontime9	8283.608663559	Sum of GTIs [s]
			l1events	898041	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	163332	134533	157222	123722	158238	160994	grade 0 events	19314	7893	16971	8762	19088	16508
rejected events	128763	72049	123309	65506	115675	128298		11%	5%	10%	7%	12%	10%
rejected %	78%	53%	78%	52%	73%	79%	grade 1 events	130	127	74	89	95	96
								0%	0%	0%	0%	0%	0%
							grade 2 events	6280	22983	6773	14202	8684	6362
								3%	17%	4%	11%	5%	3%
							grade 3 events	2344	2302	2207	4649	3244	2272
								1%	1%	1%	3%	2%	1%
							grade 4 events	2245	2159	2285	4717	3190	2153
								1%	1%	1%	3%	2%	1%
							grade 5 events	3118	6266	3055	7372	4034	3485
								1%	4%	1%	5%	2%	2%
							grade 6 events	4386	27147	5677	25886	8357	5401
								2%	20%	3%	20%	5%	3%
							grade 7 events	125515	65656	120180	58045	111546	124717
								76%	48%	76%	46%	70%	77%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	273.024411306725	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-39.97824529493242	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	16.41091414431717	[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)	488012791.520174	488012790.49517			
Observation start date	2013-06-19T07:06:32	2013-06-19T07:06:30			
[s] Observation end time (MET)	488032485.871243	488032484.84624			
Observation end date	2013-06-19T12:34:46	2013-06-19T12:34:44			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2835676235557

### A.2 Comments