

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53650 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 7 2013

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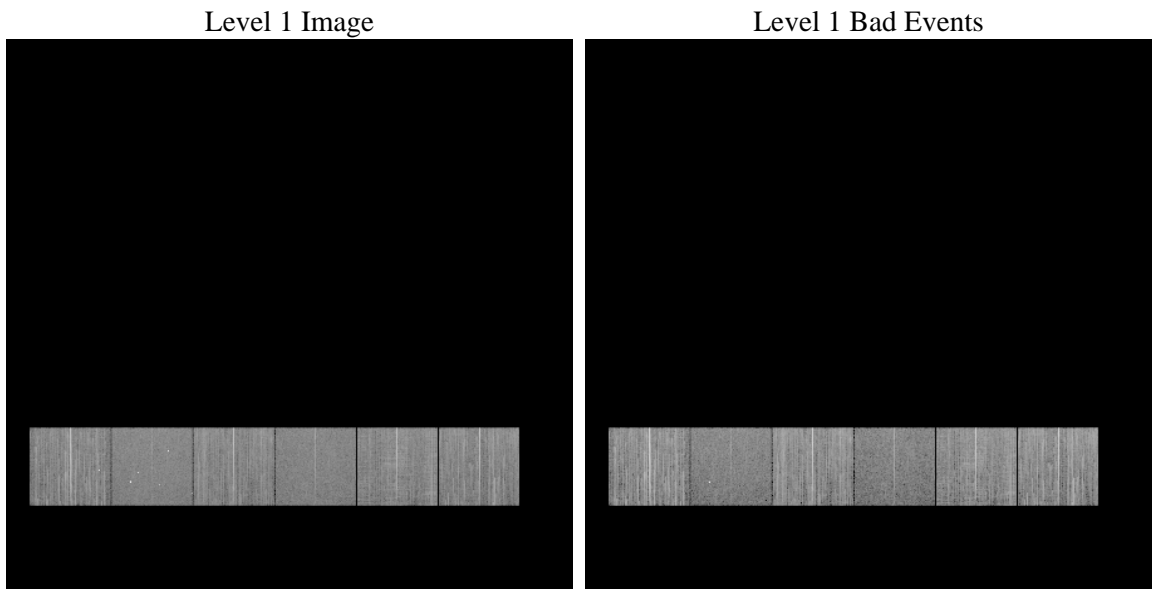
# 1 Front

seq_num	&#160	Sequence number
obs_id	53650	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	83.972786350487	Nominal RA [deg]
dec_nom	-25.023947193381	Nominal Dec [deg]
roll_nom	191.78517968842	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8415.9999687076	Sum of GTIs [s]
livetime	8309.431509597	Livetime [s]
ontime4	8415.9999687076	Sum of GTIs [s]
ontime5	8415.9999687076	Sum of GTIs [s]
ontime6	8415.9999687076	Sum of GTIs [s]
ontime7	8415.9999687076	Sum of GTIs [s]
ontime8	8415.9999687076	Sum of GTIs [s]
ontime9	8415.9999687076	Sum of GTIs [s]
l2events	238132	Number of level 2 events

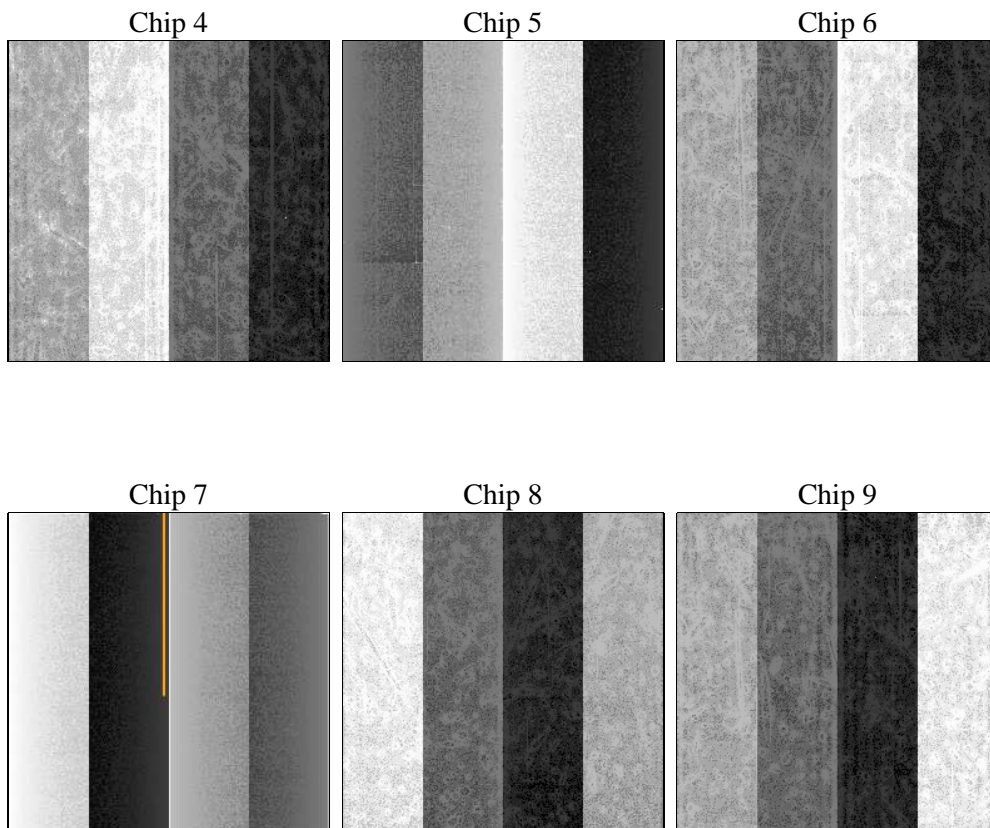
## 2 OBI

### 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	8415.9999687076	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	8415.9999687076	Sum of GTIs [s]
date	2013-06-07T06:04:46	Date and time of file creation	ontime5	8415.9999687076	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8415.9999687076	Sum of GTIs [s]
			ontime7	8415.9999687076	Sum of GTIs [s]
			ontime8	8415.9999687076	Sum of GTIs [s]
			ontime9	8415.9999687076	Sum of GTIs [s]
			l1events	874505	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	154293	137433	150662	123675	154931	153511	grade 0 events	18885	9269	16925	8573	19475	16754
rejected events	120274	73259	116785	65685	112209	120575		12%	6%	11%	6%	12%	10%
rejected %	77%	53%	77%	53%	72%	78%	grade 1 events	124	127	81	83	105	108
								0%	0%	0%	0%	0%	0%
							grade 2 events	6214	23354	6748	14216	8602	6355
								4%	16%	4%	11%	5%	4%
							grade 3 events	2380	2214	2213	4902	3302	2269
								1%	1%	1%	3%	2%	1%
							grade 4 events	2275	2164	2216	4877	3309	2268
								1%	1%	1%	3%	2%	1%
							grade 5 events	2978	6283	3030	7427	3918	3513
								1%	4%	2%	6%	2%	2%
							grade 6 events	4419	27475	5943	25742	8246	5462
								2%	19%	3%	20%	5%	3%
							grade 7 events	117018	66547	113506	57855	107974	116782
								75%	48%	75%	46%	69%	76%

## 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	83.97278635048659	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-25.02394719338149	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	191.7851796884187	[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)	486901357.309828	486901356.28483			
Observation start date	2013-06-06T10:22:37	2013-06-06T10:22:36			
[s] Observation end time (MET)	486911629.860385	486911628.83539			
Observation end date	2013-06-06T13:13:50	2013-06-06T13:13:48			
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)	2013.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4159999687076

### A.2 Comments