

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53544 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 21 2013

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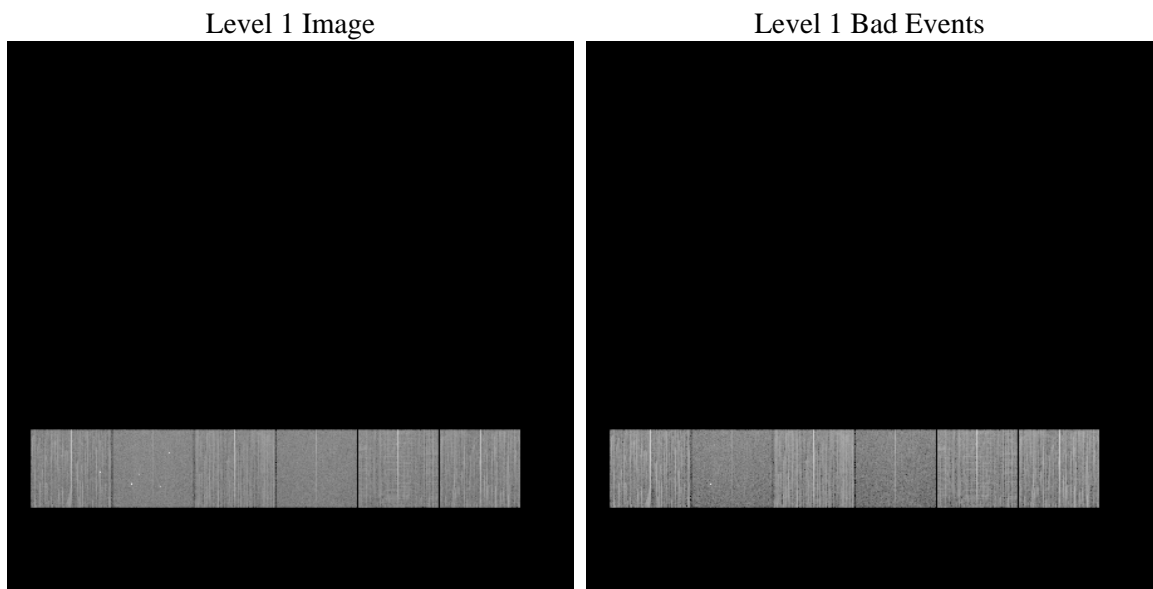
# 1 Front

seq_num	&#160	Sequence number
obs_id	53544	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	282.99280004006	Nominal RA [deg]
dec_nom	-10.0271254737	Nominal Dec [deg]
roll_nom	235.96875319787	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8281.5999692082	Sum of GTIs [s]
livetime	8176.7333638173	Livetime [s]
ontime4	8281.5999692082	Sum of GTIs [s]
ontime5	8281.5999692082	Sum of GTIs [s]
ontime6	8281.5999692082	Sum of GTIs [s]
ontime7	8281.5999692082	Sum of GTIs [s]
ontime8	8281.5999692082	Sum of GTIs [s]
ontime9	8281.5999692082	Sum of GTIs [s]
l2events	256831	Number of level 2 events

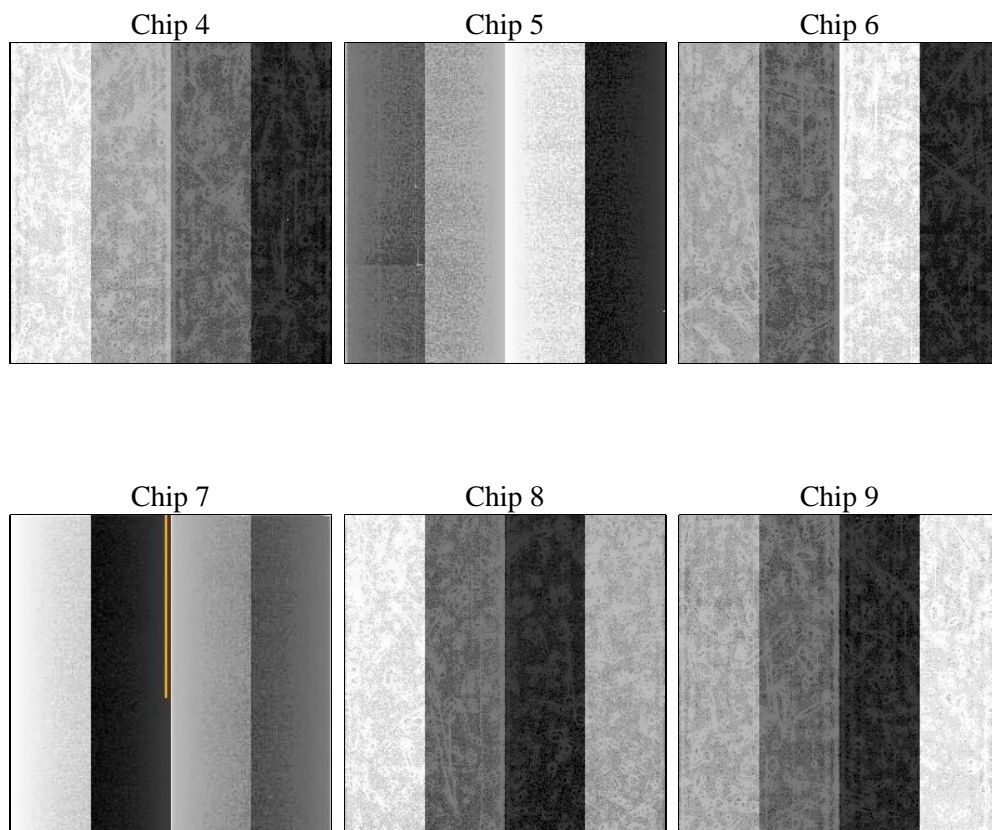
## 2 OBI

### 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	8281.5999692082	Sum of GTIs [s]
caldsver	4.5.7	&#160	ontime4	8281.5999692082	Sum of GTIs [s]
date	2013-07-21T14:38:57	Date and time of file creation	ontime5	8281.5999692082	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8281.5999692082	Sum of GTIs [s]
			ontime7	8281.5999692082	Sum of GTIs [s]
			ontime8	8281.5999692082	Sum of GTIs [s]
			ontime9	8281.5999692082	Sum of GTIs [s]
			l1events	912766	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	157255	138904	164559	128407	160051	163590	grade 0 events	20647	7865	18494	9412	20861	18209
rejected events	119504	73843	126895	66689	113943	127249		13%	5%	11%	7%	13%	11%
rejected %	75%	53%	77%	51%	71%	77%	grade 1 events	173	128	69	84	117	84
								0%	0%	0%	0%	0%	0%
							grade 2 events	6822	24637	7568	14960	9415	7074
								4%	17%	4%	11%	5%	4%
							grade 3 events	2568	2293	2450	5068	3377	2349
								1%	1%	1%	3%	2%	1%
							grade 4 events	2502	2199	2389	5014	3223	2411
								1%	1%	1%	3%	2%	1%
							grade 5 events	3141	6701	3185	7836	4084	3498
								1%	4%	1%	6%	2%	2%
							grade 6 events	5231	28104	6790	27296	9252	6330
								3%	20%	4%	21%	5%	3%
							grade 7 events	116171	66977	123614	58737	109722	123635
								73%	48%	75%	45%	68%	75%

## 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	282.9928000400646	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-10.02712547370032	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	235.9687531978707	[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)	490755609.66935	490755608.64435			
Observation start date	2013-07-21T01:00:10	2013-07-21T01:00:08			
[s] Observation end time (MET)	490772706.670282	490772705.64528			
Observation end date	2013-07-21T05:45:07	2013-07-21T05:45:05			
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)	2013.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2815999692082

### A.2 Comments