

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 60653 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Mar 1 2013

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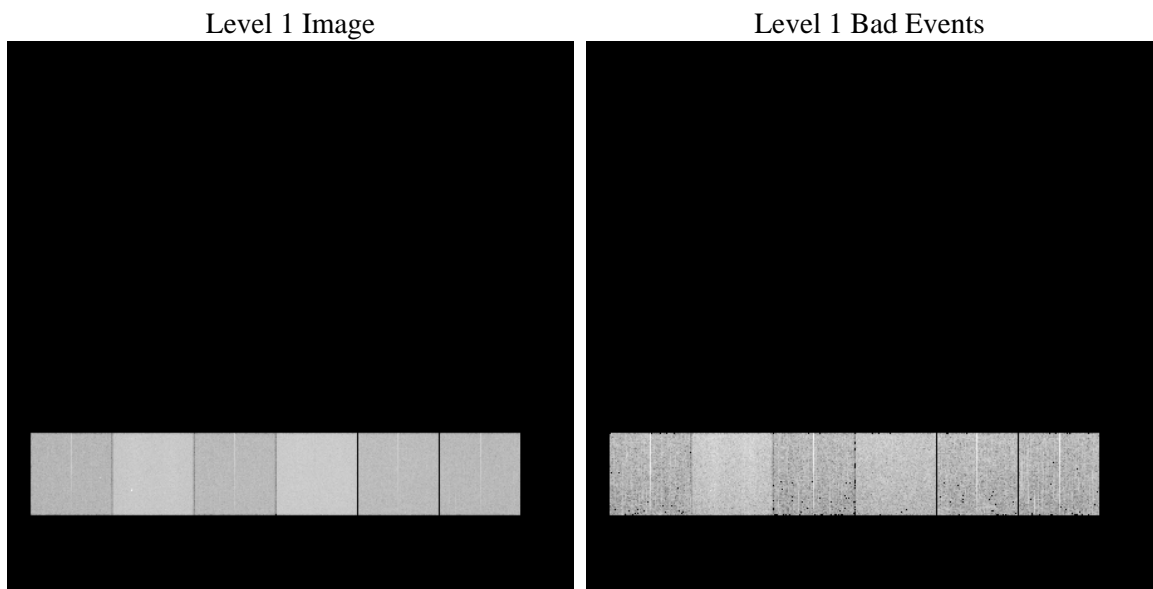
# 1 Front

seq_num	&#160	Sequence number
obs_id	60653	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	30.541825764102	Nominal RA [deg]
dec_nom	-38.815648809883	Nominal Dec [deg]
roll_nom	111.54848274233	Nominal Roll [deg]
revision	5	Processing version of data
ontime	8377.599968791	Sum of GTIs [s]
livetime	8271.5177536011	Livetime [s]
ontime4	4193.5018416941	Sum of GTIs [s]
ontime5	8377.599968791	Sum of GTIs [s]
ontime6	4559.735625118	Sum of GTIs [s]
ontime7	8377.599968791	Sum of GTIs [s]
ontime8	4815.7730723321	Sum of GTIs [s]
ontime9	4533.8070664108	Sum of GTIs [s]
l2events	1230904	Number of level 2 events

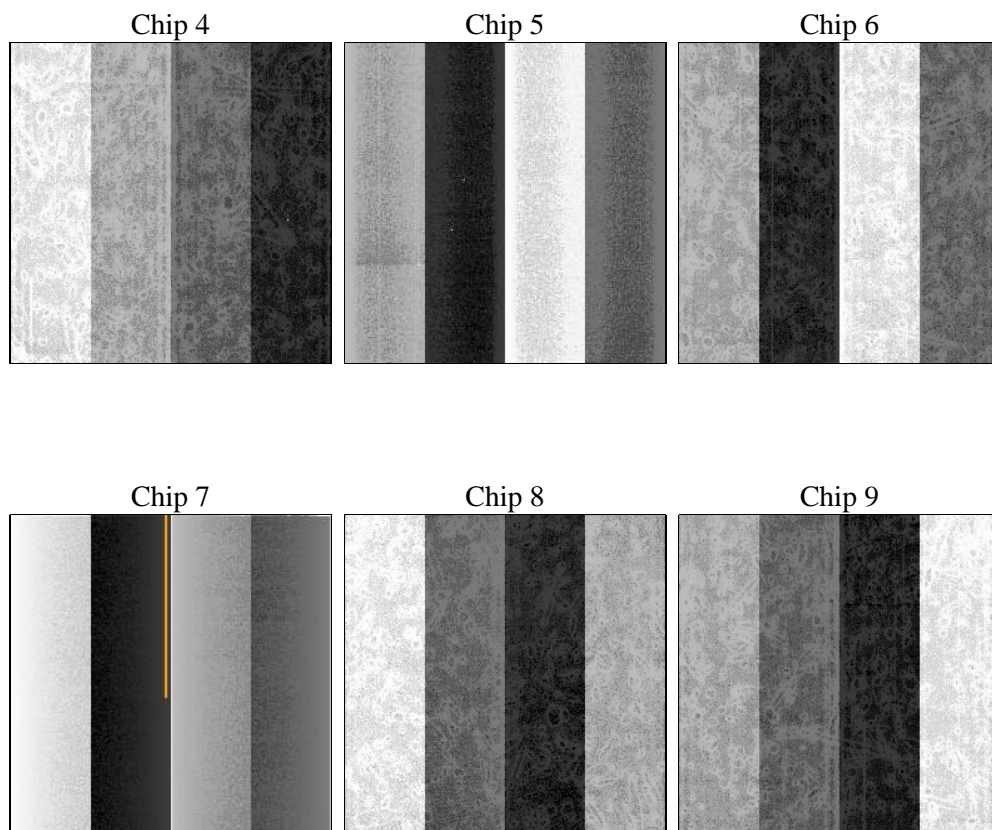
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	900	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8377.599968791	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	4193.5018416941	Sum of GTIs [s]
date	2013-03-01T23:14:25	Date and time of file creation	ontime5	8377.599968791	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	4559.735625118	Sum of GTIs [s]
			ontime7	8377.599968791	Sum of GTIs [s]
			ontime8	4815.7730723321	Sum of GTIs [s]
			ontime9	4533.8070664108	Sum of GTIs [s]
			l1events	1537276	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	182301	344395	207754	375957	224102	202767	grade 0 events	90037	49463	93521	79952	105432	96157
rejected events	33518	61761	33201	47499	35975	34046		49%	14%	45%	21%	47%	47%
rejected %	18%	17%	15%	12%	16%	16%	grade 1 events	654	219	410	195	503	517
								0%	0%	0%	0%	0%	0%
							grade 2 events	21026	118959	33353	74104	32253	27478
								11%	34%	16%	19%	14%	13%
							grade 3 events	10116	13282	10201	32941	12160	10766
								5%	3%	4%	8%	5%	5%
							grade 4 events	10014	12775	10291	32189	12067	10747
								5%	3%	4%	8%	5%	5%
							grade 5 events	1824	8991	2112	8309	2509	2218
								1%	2%	1%	2%	1%	1%
							grade 6 events	18942	91032	28981	112571	27921	25306
								10%	26%	13%	29%	12%	12%
							grade 7 events	29688	49674	28885	35696	31257	29578
								16%	14%	13%	9%	13%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	30.54178125289488	30.54182576410218
[deg] Pointing Dec	-38.81579199560183	-38.81564880988338
[deg] Pointing Roll	111.5484908011735	111.548482742331
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	174586775.901958	174586775.901958
Observation start date	2003-07-14T16:24:00	2003-07-14T16:19:35
[s] Observation end time (MET)	174595284.202481	174595284.202481
Observation end date	2003-07-14T16:39:00	2003-07-14T18:41:24
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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)	2013.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.377599968791

### A.2 Comments