

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60399 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 10 2012

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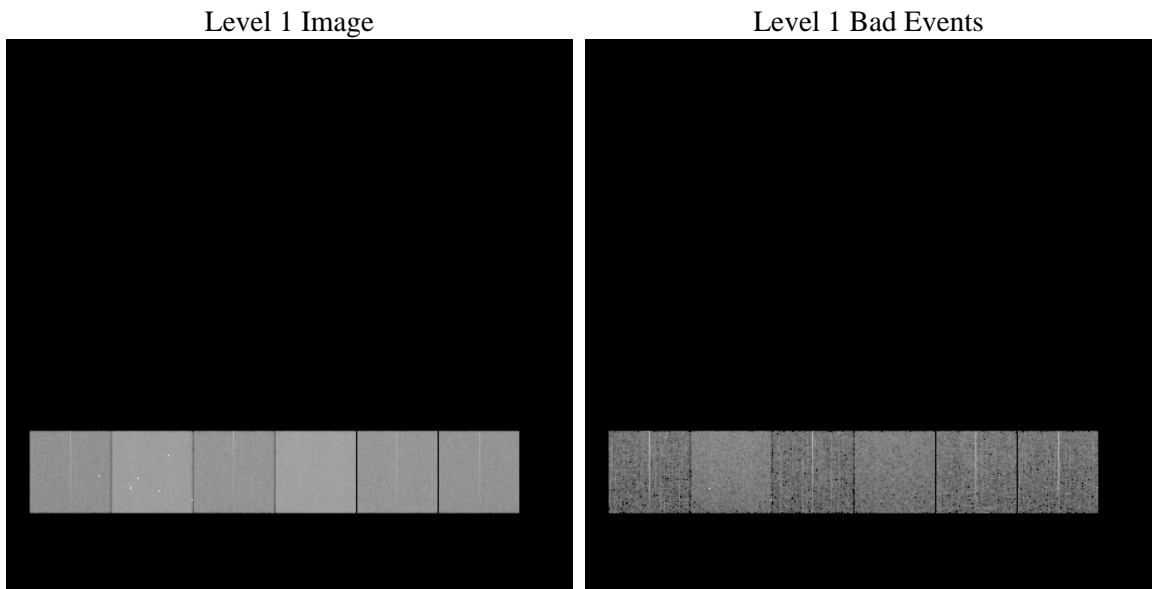
# 1 Front

seq_num	&#160	Sequence number
obs_id	60399	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	154.99013412646	Nominal RA [deg]
dec_nom	15.027004413454	Nominal Dec [deg]
roll_nom	76.586375963911	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7803.3506225646	Sum of GTIs [s]
livetime	7704.539898368	Livetime [s]
ontime4	4571.9678955674	Sum of GTIs [s]
ontime5	7803.3095825613	Sum of GTIs [s]
ontime6	4974.969022572	Sum of GTIs [s]
ontime7	7803.3506225646	Sum of GTIs [s]
ontime8	5140.260319978	Sum of GTIs [s]
ontime9	4870.3034548759	Sum of GTIs [s]
l2events	1135379	Number of level 2 events

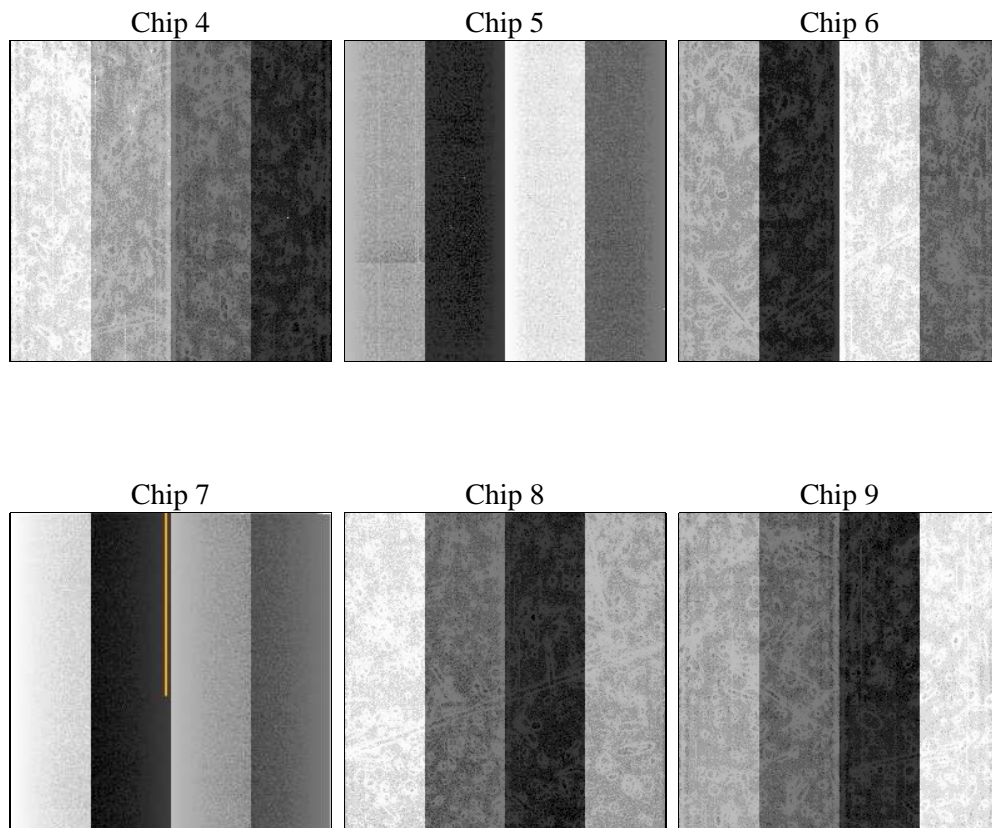
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	7803.3506225646	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	4571.9678955674	Sum of GTIs [s]
date	2012-11-11T00:37:48	Date and time of file creation	ontime5	7803.3095825613	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4974.969022572	Sum of GTIs [s]
			ontime7	7803.3506225646	Sum of GTIs [s]
			ontime8	5140.260319978	Sum of GTIs [s]
			ontime9	4870.3034548759	Sum of GTIs [s]
			l1events	1417727	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	181184	298750	206230	316806	218292	196465	grade 0 events	88505	57968	95898	69471	101191	91311
rejected events	30656	48918	30662	38445	34647	31205		48%	19%	46%	21%	46%	46%
rejected %	16%	16%	14%	12%	15%	15%	grade 1 events	582	792	407	171	463	467
								0%	0%	0%	0%	0%	0%
							grade 2 events	23101	91991	29999	60648	31662	28296
								12%	30%	14%	19%	14%	14%
							grade 3 events	9808	14143	10997	27792	11891	10434
								5%	4%	5%	8%	5%	5%
							grade 4 events	10018	13966	10813	27725	11764	10432
								5%	4%	5%	8%	5%	5%
							grade 5 events	1957	8168	2248	7297	2494	2229
								1%	2%	1%	2%	1%	1%
							grade 6 events	19096	71764	27861	92725	27137	24787
								10%	24%	13%	29%	12%	12%
							grade 7 events	28117	39958	28007	30977	31690	28509
								15%	13%	13%	9%	14%	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	0	154.9901341264583
[deg] Pointing Dec	0	15.02700441345395
[deg] Pointing Roll	0.0	76.58637596391094
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-190.132523	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	191217438.518593	191217437.49388
Observation start date	2004-01-23T03:57:19	2004-01-23T03:57:17
[s] Observation end time (MET)	191232577.769254	191232576.74454
Observation end date	2004-01-23T08:09:38	2004-01-23T08:09:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	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)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8033506225646

### A.2 Comments