

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60531 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 5 2012

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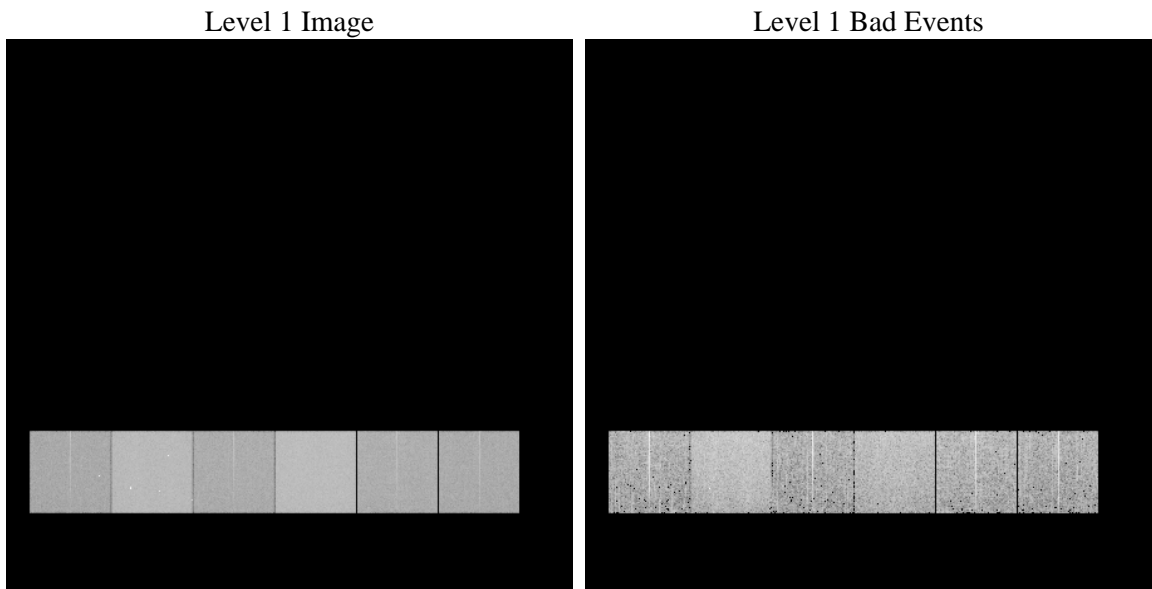
# 1 Front

seq_num	&#160	Sequence number
obs_id	60531	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	211.85981547875	Nominal RA [deg]
dec_nom	43.614715375847	Nominal Dec [deg]
roll_nom	334.52454187449	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7800.6128639281	Sum of GTIs [s]
livetime	7701.8368068799	Livetime [s]
ontime4	4167.3631646335	Sum of GTIs [s]
ontime5	7800.5718239248	Sum of GTIs [s]
ontime6	4475.8524254858	Sum of GTIs [s]
ontime7	7800.6128639281	Sum of GTIs [s]
ontime8	4601.6138315499	Sum of GTIs [s]
ontime9	4365.2283432782	Sum of GTIs [s]
l2events	1143136	Number of level 2 events

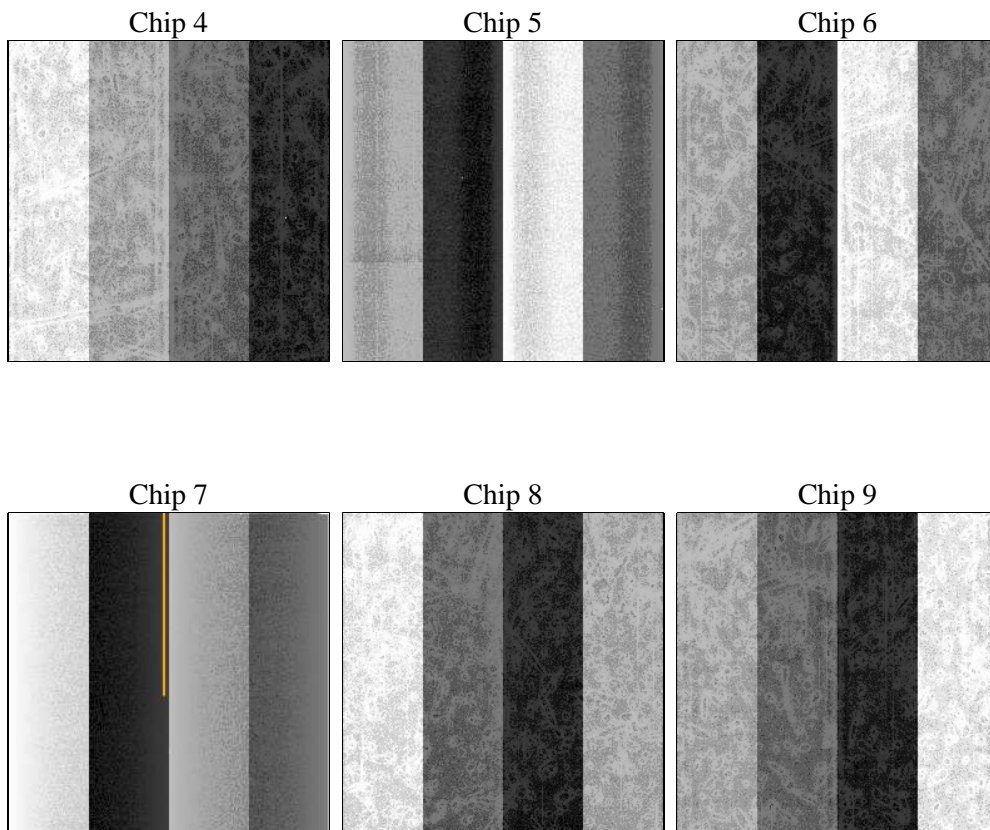
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	7800.6128639281	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	4167.3631646335	Sum of GTIs [s]
date	2012-11-05T07:15:39	Date and time of file creation	ontime5	7800.5718239248	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4475.8524254858	Sum of GTIs [s]
			ontime7	7800.6128639281	Sum of GTIs [s]
			ontime8	4601.6138315499	Sum of GTIs [s]
			ontime9	4365.2283432782	Sum of GTIs [s]
			l1events	1418438	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	176186	312660	197217	337206	208994	186175	grade 0 events	84910	63549	91786	73410	95145	86460
rejected events	30750	48701	29474	41063	34935	29659		48%	20%	46%	21%	45%	46%
rejected %	17%	15%	14%	12%	16%	15%	grade 1 events	564	336	430	195	495	454
								0%	0%	0%	0%	0%	0%
							grade 2 events	23271	92591	29007	65380	30498	27095
								13%	29%	14%	19%	14%	14%
							grade 3 events	9543	17054	10285	29708	11184	9999
								5%	5%	5%	8%	5%	5%
							grade 4 events	9522	16913	10209	29646	11314	9832
								5%	5%	5%	8%	5%	5%
							grade 5 events	1862	8360	2043	7717	2533	2240
								1%	2%	1%	2%	1%	1%
							grade 6 events	18190	73863	26456	98035	25918	23363
								10%	23%	13%	29%	12%	12%
							grade 7 events	28324	39994	27001	33115	31907	26732
								16%	12%	13%	9%	15%	14%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	211.8598154787481	Alternating exposures requested	N	N
[deg] Pointing Dec	0	43.61471537584676	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	334.5245418744945			
[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)	181846658.512534	181846657.48781			
Observation start date	2003-10-06T16:57:39	2003-10-06T16:57:37			
[s] Observation end time (MET)	181864819.463315	181864818.43859			
Observation end date	2003-10-06T22:00:19	2003-10-06T22:00:18			
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)	2012.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8006128639281

## A.2 Comments