

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60993 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 15 2012

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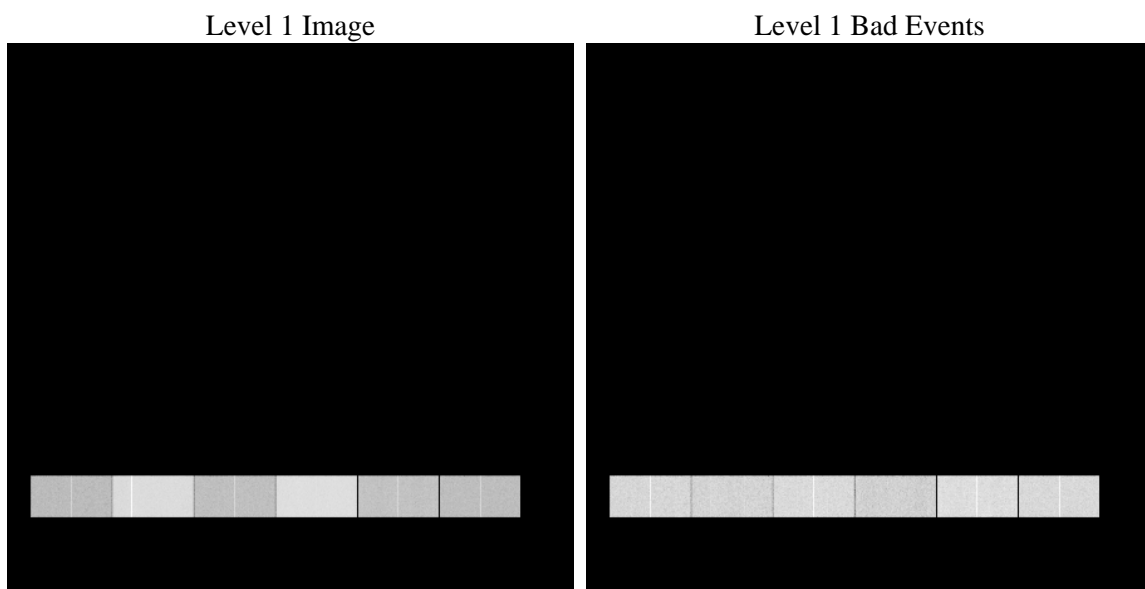
# 1 Front

seq_num	&#160	Sequence number
obs_id	60993	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	116.08528443139	Nominal RA [deg]
dec_nom	37.226083363081	Nominal Dec [deg]
roll_nom	81.29297744863	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8859.4572292268	Sum of GTIs [s]
livetime	8824.8499744252	Livetime [s]
ontime4	2860.7908474505	Sum of GTIs [s]
ontime5	8860.25	Sum of GTIs [s]
ontime6	3152.630143255	Sum of GTIs [s]
ontime7	8859.4572292268	Sum of GTIs [s]
ontime8	3215.3748564422	Sum of GTIs [s]
ontime9	3037.3535210788	Sum of GTIs [s]
l2events	913022	Number of level 2 events

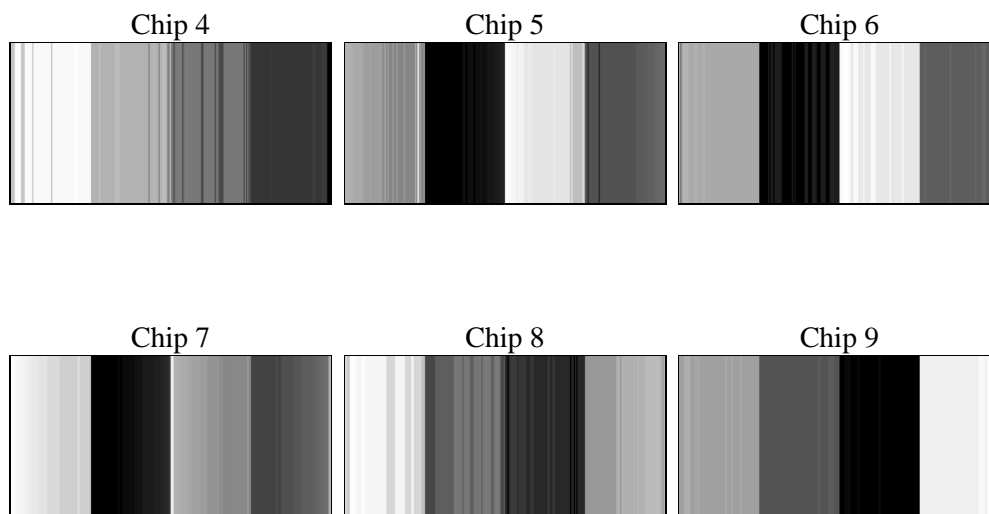
## 2 OBI

### 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	8859.4572292268	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	2860.7908474505	Sum of GTIs [s]
date	2012-10-15T17:37:52	Date and time of file creation	ontime5	8860.25	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3152.630143255	Sum of GTIs [s]
			ontime7	8859.4572292268	Sum of GTIs [s]
			ontime8	3215.3748564422	Sum of GTIs [s]
			ontime9	3037.3535210788	Sum of GTIs [s]
			l1events	1562816	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	140611	451243	161391	479386	178863	151322	grade 0 events	12710	53164	10929	90589	17565	12516
rejected events	95464	83698	107940	74315	120287	102102		9%	11%	6%	18%	9%	8%
rejected %	67%	18%	66%	15%	67%	67%	grade 1 events	85	180	57	278	89	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	73177	171364	86785	104851	86257	78973
								52%	37%	53%	21%	48%	52%
							grade 3 events	1836	11172	1527	35943	2560	1731
								1%	2%	0%	7%	1%	1%
							grade 4 events	1797	11055	1495	35081	2621	1677
								1%	2%	0%	7%	1%	1%
							grade 5 events	1728	10141	1623	10647	1846	1525
								1%	2%	1%	2%	1%	1%
							grade 6 events	22007	121010	29153	138810	29204	25970
								15%	26%	18%	28%	16%	17%
							grade 7 events	27271	73157	29822	63187	38721	28862
								19%	16%	18%	13%	21%	19%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	116.0852844313862
[deg] Pointing Dec	0	37.22608336308063
[deg] Pointing Roll	0.0	81.29297744863044
[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)	151238617.670097	151238616.64539
Observation start date	2002-10-17T10:43:38	2002-10-17T10:43:36
[s] Observation end time (MET)	151259509.220963	151259508.19626
Observation end date	2002-10-17T16:31:49	2002-10-17T16:31:48
Read mode	CONTINUOUS	CONTINUOUS

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	0

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.16
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	8.8594572292268

## A.2 Comments

Column 233 in chip 5 bias file has an unusually high adu value.