

# V&V Reference Report

## L2 ASCDS Version : 8.3.2

Observation 62989 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Aug 15 2010

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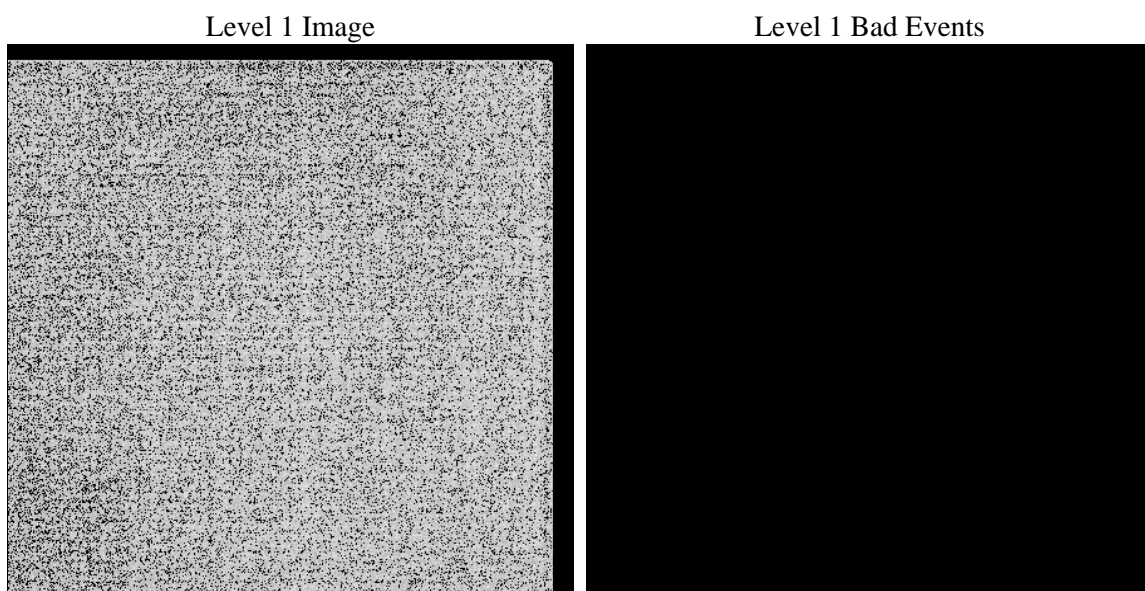
# 1 Front

seq_num	0	Sequence number
obs_id	62989	Observation id
title	HRC Activation	Proposal title
observer	CHANDRA orbital activation and checkout	Principal investigator
object	&#160	Source name
ra_targ	0.0	Target RA
dec_targ	0.0	Target Dec
ra_nom	41.892998150787	Nominal RA
dec_nom	-11.17049851621	Nominal Dec
roll_nom	108.98328802538	Nominal Roll
revision	4	Processing version of data
ontime	0.0	[s]
livetime	0.0	Ontime multiplied by DTCOR
l2events	0	Number of level 2 events

## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	ObI number	sched_exp_time	3000	Scheduled observation exposure time
ascdsver	8.3.2	Processing system revision	ontime	0.0	[s]
caldbver	4.3.0	&#160	l1events	399953	Number of level 1 events
date	2010-08-15T11:39:35	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

	<b>segment 0</b>
level 1 events	399953
rejected events	0
rejected %	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	SECONDARY	SECONDARY
Pointing RA	0	41.89299815078721
Pointing Dec	0	-11.17049851620997
Pointing Roll	0.0	108.9832880253759
SIM focus pos (mm)	-1.040293	0
SIM defocus (mm)	0	0
SIM translation stage pos (mm)	126.985494	0
SIM translation stage offset (mm)	0	0
Observation start time	49606044.658	49606044.0878
Observation start date	1999-07-29T03:27:25	1999-07-29T03:27:24
Observation stop time	49615195.897	49615195.288103
Observation end date	1999-07-29T05:59:56	1999-07-29T05:59:55

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0

## A.2 Comments

HRC-I initial turn-on. HRC shield 1 HV full on, 03:49. Rates about 4500 per sec.

Start HRC-I high voltage turn-on, 04:07.

See occasional events at 04:46:14, at HV=1200v.

Hold at HV = 1350. Getting about 140 per sec count rate, of which  $\geq$  half are cosmic rays, but residual counting rate is higher than expected. HRC team decides to stay at this voltage step and monitor performance for the duration of time until radiation belt passage. (Expect to operate at 1550v).

Only level 1 events because there is no Kalman lock during this observation.