

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53355 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 1 2013

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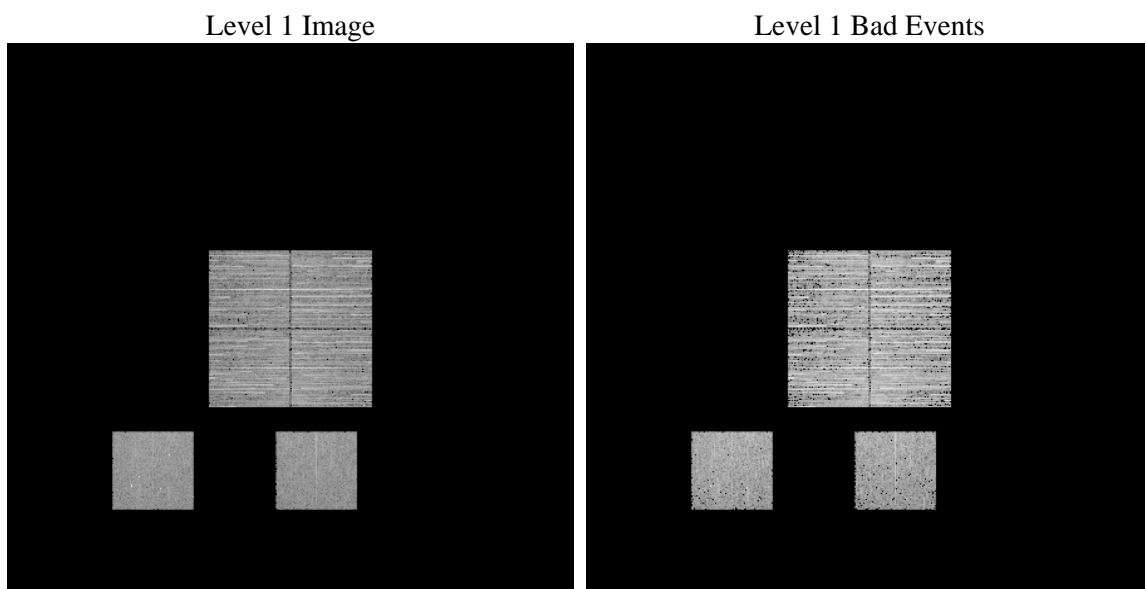
# 1 Front

seq_num	&#160	Sequence number
obs_id	53355	Observation id
title	ACIS-012357 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	344.0239708658	Nominal RA [deg]
dec_nom	-7.0161112339543	Nominal Dec [deg]
roll_nom	292.94436636526	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3288.5994753242	Sum of GTIs [s]
livetime	3246.9572486107	Livetime [s]
ontime0	3288.5584353209	Sum of GTIs [s]
ontime1	3288.5173953176	Sum of GTIs [s]
ontime2	3288.4763553143	Sum of GTIs [s]
ontime3	3288.6405153275	Sum of GTIs [s]
ontime5	3288.435315311	Sum of GTIs [s]
ontime7	3288.5994753242	Sum of GTIs [s]
l2events	90148	Number of level 2 events

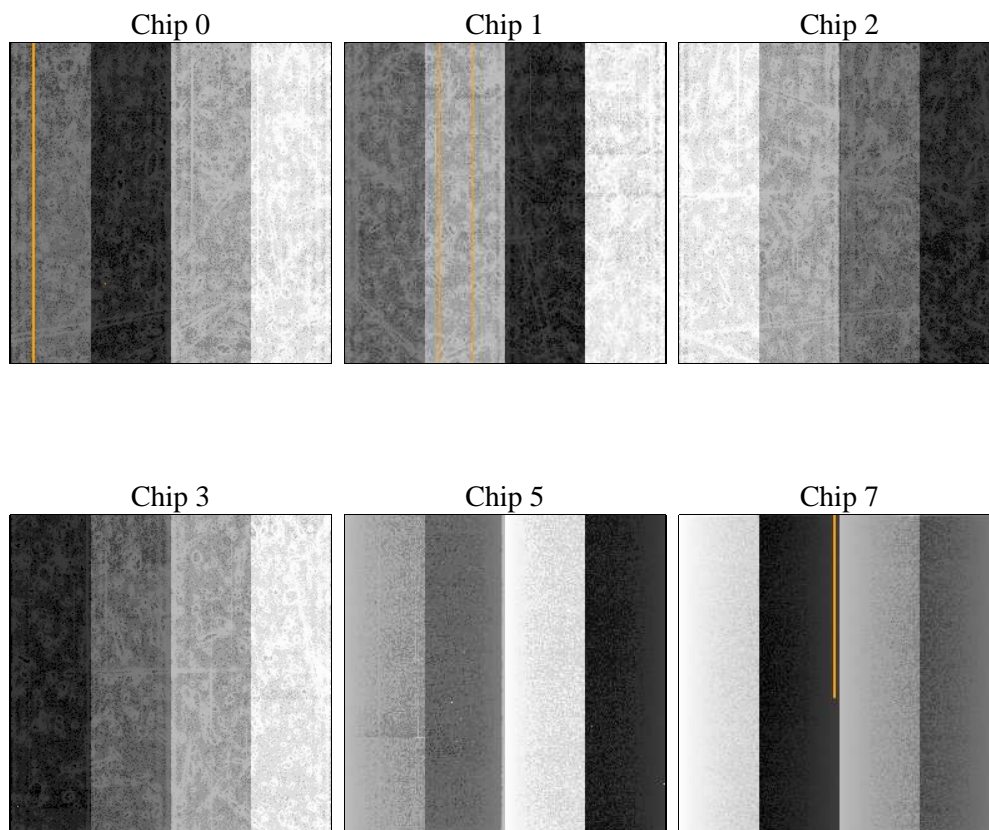
## 2 OBI

### 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	10	Processing system revision	ontime	3288.5994753242	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime0	3288.5584353209	Sum of GTIs [s]
date	2013-10-01T04:19:21	Date and time of file creation	ontime1	3288.5173953176	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3288.4763553143	Sum of GTIs [s]
			ontime3	3288.6405153275	Sum of GTIs [s]
			ontime5	3288.435315311	Sum of GTIs [s]
			ontime7	3288.5994753242	Sum of GTIs [s]
			l1events	337101	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	53924	60607	58158	62671	52576	49165	grade 0 events	6173	6041	6407	6612	3202	3239
rejected events	41850	48407	45885	50122	28162	26739		11%	9%	11%	10%	6%	6%
rejected %	77%	79%	78%	79%	53%	54%	grade 1 events	32	15	41	43	77	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	2368	2457	2388	2317	8837	5514
								4%	4%	4%	3%	16%	11%
							grade 3 events	811	838	812	857	901	1856
								1%	1%	1%	1%	1%	3%
							grade 4 events	815	846	850	832	861	1772
								1%	1%	1%	1%	1%	3%
							grade 5 events	1112	1171	1018	1170	2474	3027
								2%	1%	1%	1%	4%	6%
							grade 6 events	1907	2018	1816	1931	10613	10045
								3%	3%	3%	3%	20%	20%
							grade 7 events	40706	47221	44826	48909	25611	23680
								75%	77%	77%	78%	48%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	344.0239708658045	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-7.016111233954311	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	292.9443663652569	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	496957475.007619	496957473.98262			
Observation start date	2013-09-30T19:44:35	2013-09-30T19:44:33			
[s] Observation end time (MET)	496964274.857991	496964273.83299			
Observation end date	2013-09-30T21:37:55	2013-09-30T21:37:53			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2885994753242

### A.2 Comments