

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53129 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 27 2013

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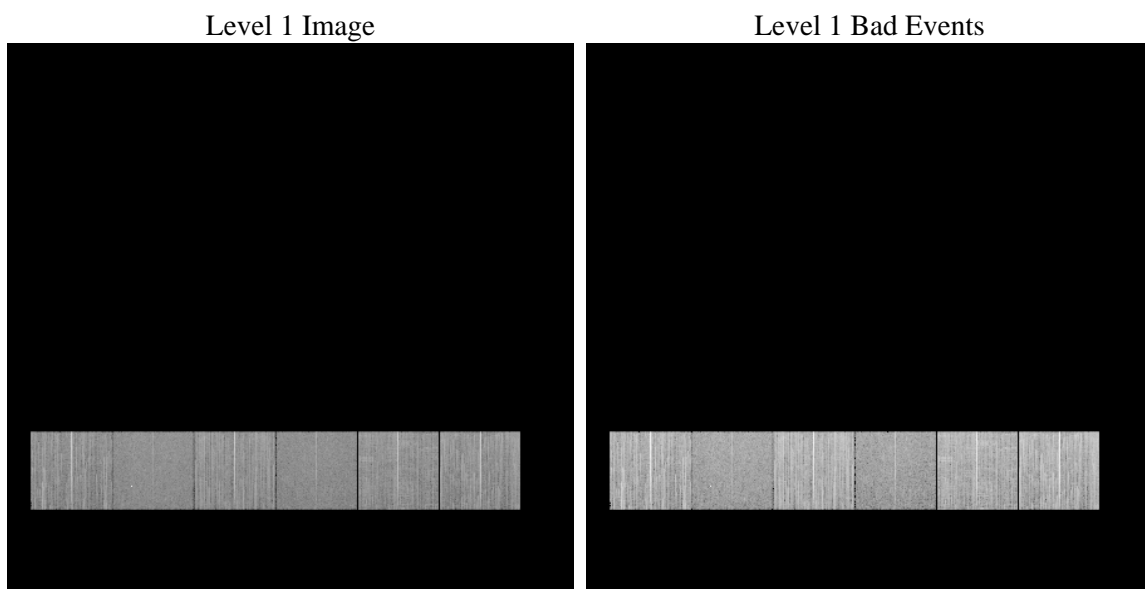
# 1 Front

seq_num	&#160	Sequence number
obs_id	53129	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	252.8370771768	Nominal RA [deg]
dec_nom	22.489473864095	Nominal Dec [deg]
roll_nom	27.49919719342	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8280.7574852109	Sum of GTIs [s]
livetime	8175.9015478596	Livetime [s]
ontime4	8274.1949443817	Sum of GTIs [s]
ontime5	8280.7574852109	Sum of GTIs [s]
ontime6	8280.7178453803	Sum of GTIs [s]
ontime7	8280.7574852109	Sum of GTIs [s]
ontime8	8280.6357653737	Sum of GTIs [s]
ontime9	8280.7574852109	Sum of GTIs [s]
l2events	211222	Number of level 2 events

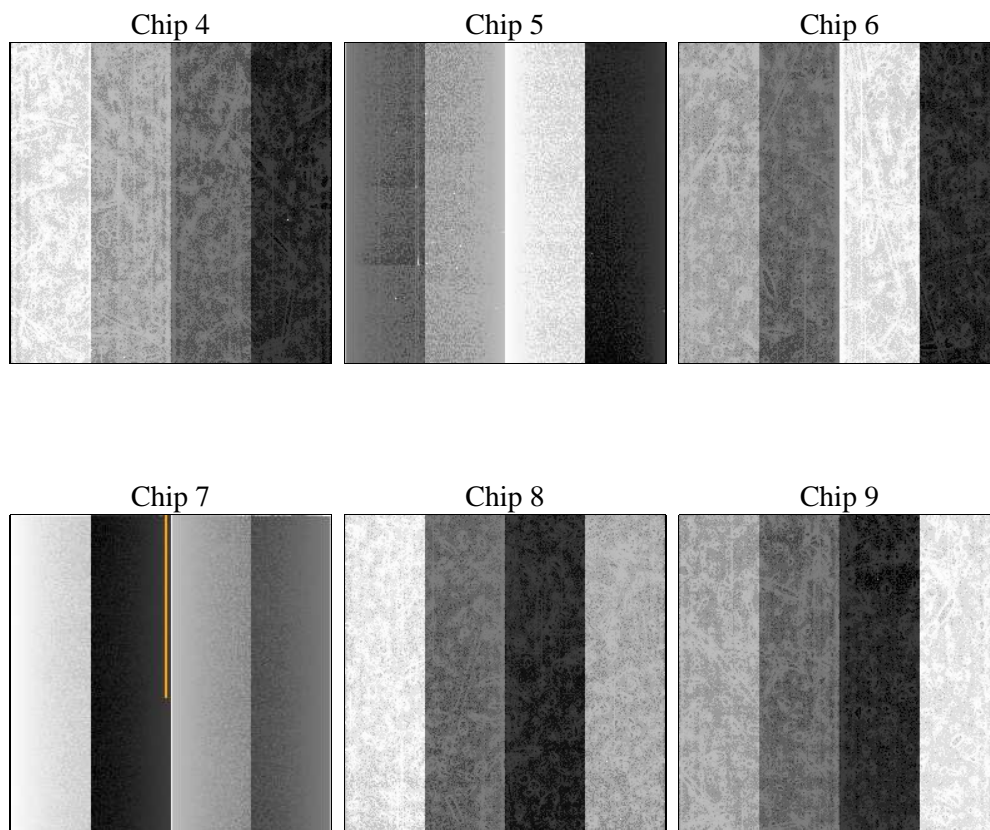
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	8280.7574852109	Sum of GTIs [s]
caldsver	4.6.0	&#160	ontime4	8274.1949443817	Sum of GTIs [s]
date	2013-12-27T17:21:43	Date and time of file creation	ontime5	8280.7574852109	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8280.7178453803	Sum of GTIs [s]
			ontime7	8280.7574852109	Sum of GTIs [s]
			ontime8	8280.6357653737	Sum of GTIs [s]
			ontime9	8280.7574852109	Sum of GTIs [s]
			l1events	854887	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	143696	126779	155618	117930	151913	158951	grade 0 events	14895	4447	12195	6967	16385	13503
rejected events	115505	70757	126673	65370	114841	130375		10%	3%	7%	5%	10%	8%
rejected %	80%	55%	81%	55%	75%	82%	grade 1 events	93	144	56	81	77	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	5590	20114	8043	12987	8296	6394
								3%	15%	5%	11%	5%	4%
							grade 3 events	2099	1999	1602	3916	2630	1848
								1%	1%	1%	3%	1%	1%
							grade 4 events	1917	2064	1604	3999	2614	1879
								1%	1%	1%	3%	1%	1%
							grade 5 events	2911	5158	2639	6718	3651	3173
								2%	4%	1%	5%	2%	1%
							grade 6 events	3690	27398	5501	24691	7147	4952
								2%	21%	3%	20%	4%	3%
							grade 7 events	112501	65455	123978	58571	111113	127134
								78%	51%	79%	49%	73%	79%

## 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	252.8370771768025
[deg] Pointing Dec	0	22.4894738640947
[deg] Pointing Roll	0.0	27.49919719342048
[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)	504498316.37075	504498315.34575
Observation start date	2013-12-27T02:25:16	2013-12-27T02:25:15
[s] Observation end time (MET)	504509244.92135	504509243.89635
Observation end date	2013-12-27T05:27:25	2013-12-27T05:27:23
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	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)	2013.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2807574852109

### A.2 Comments