

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53632 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 14 2013

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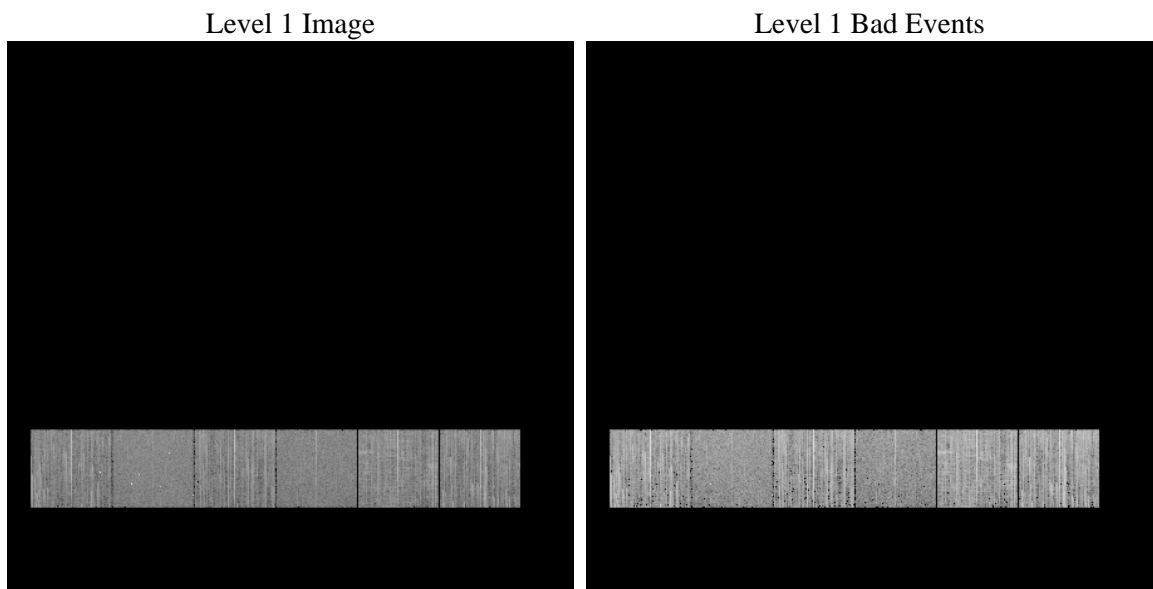
# 1 Front

seq_num	&#160	Sequence number
obs_id	53632	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	244.04100286147	Nominal RA [deg]
dec_nom	-46.003528757757	Nominal Dec [deg]
roll_nom	320.15128555385	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4499.1999832988	Sum of GTIs [s]
livetime	4442.2284040173	Livetime [s]
ontime4	4499.1999832988	Sum of GTIs [s]
ontime5	4499.1999832988	Sum of GTIs [s]
ontime6	4499.1999832988	Sum of GTIs [s]
ontime7	4499.1999832988	Sum of GTIs [s]
ontime8	4499.1999832988	Sum of GTIs [s]
ontime9	4499.1999832988	Sum of GTIs [s]
l2events	126933	Number of level 2 events

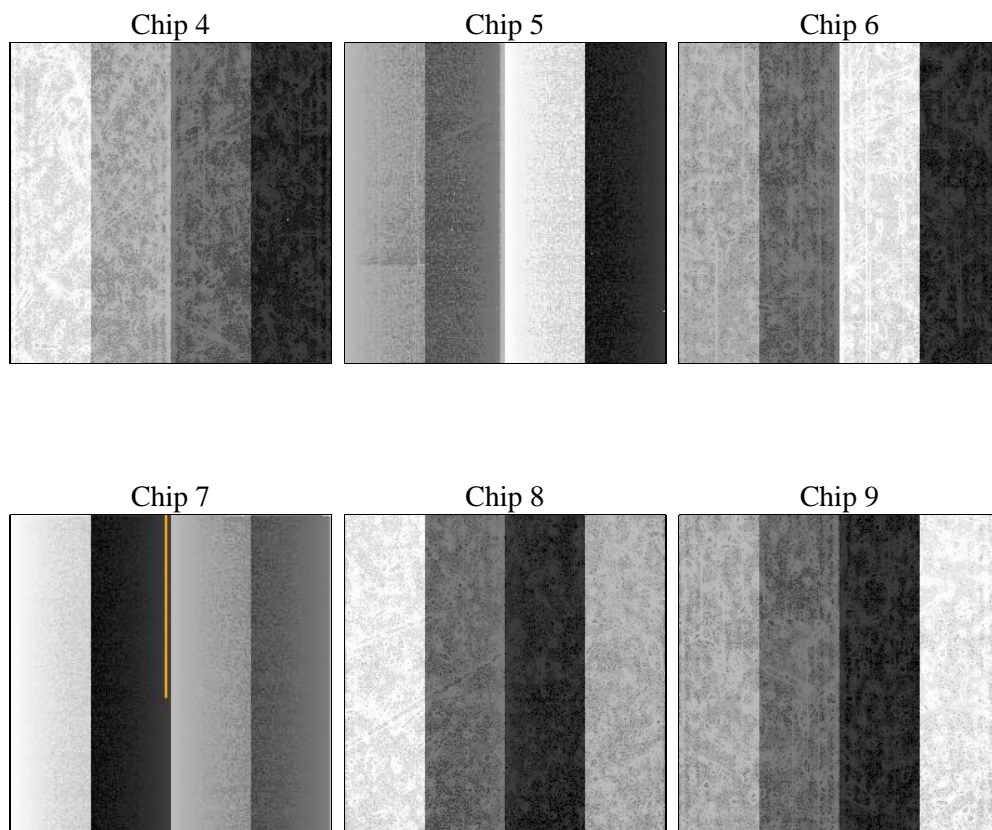
## 2 OBI

### 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	4499.1999832988	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	4499.1999832988	Sum of GTIs [s]
date	2013-06-15T00:12:16	Date and time of file creation	ontime5	4499.1999832988	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4499.1999832988	Sum of GTIs [s]
			ontime7	4499.1999832988	Sum of GTIs [s]
			ontime8	4499.1999832988	Sum of GTIs [s]
			ontime9	4499.1999832988	Sum of GTIs [s]
			l1events	473856	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	80509	73456	78366	66303	88649	86573	grade 0 events	10551	5117	9052	4569	10518	8824
rejected events	61885	38742	60168	35304	65528	69098		13%	6%	11%	6%	11%	10%
rejected %	76%	52%	76%	53%	73%	79%	grade 1 events	80	154	46	47	46	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	3327	12669	3672	7517	4703	3334
								4%	17%	4%	11%	5%	3%
							grade 3 events	1223	1194	1181	2582	1764	1207
								1%	1%	1%	3%	1%	1%
							grade 4 events	1240	1240	1168	2528	1827	1165
								1%	1%	1%	3%	2%	1%
							grade 5 events	1683	3351	1650	3899	2150	1814
								2%	4%	2%	5%	2%	2%
							grade 6 events	2283	14494	3125	13822	4309	2964
								2%	19%	3%	20%	4%	3%
							grade 7 events	60122	35237	58472	31339	63332	67223
								74%	47%	74%	47%	71%	77%

## 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	244.0410028614672
[deg] Pointing Dec	0	-46.00352875775721
[deg] Pointing Roll	0.0	320.151285553846
[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)	487584851.946958	487584850.92196
Observation start date	2013-06-14T08:14:12	2013-06-14T08:14:10
[s] Observation end time (MET)	487593658.747436	487593657.72244
Observation end date	2013-06-14T10:40:59	2013-06-14T10:40:57
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)	2013.06.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.4991999832988

### A.2 Comments