

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51539 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 27 2015

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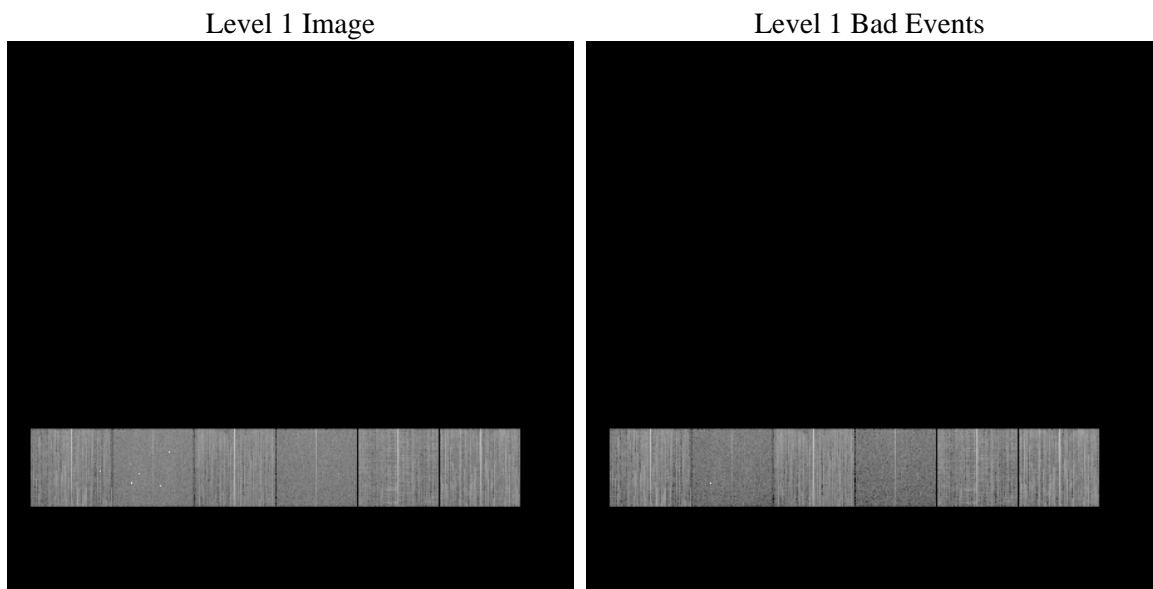
# 1 Front

seq_num	&#160	Sequence number
obs_id	51539	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	37.717601054393	Nominal RA [deg]
dec_nom	-10.971638141125	Nominal Dec [deg]
roll_nom	15.750245046978	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8352.0001244545	Sum of GTIs [s]
livetime	8246.2420699079	Livetime [s]
ontime4	8352.0001244545	Sum of GTIs [s]
ontime5	8352.0001244545	Sum of GTIs [s]
ontime6	8352.0001244545	Sum of GTIs [s]
ontime7	8352.0001244545	Sum of GTIs [s]
ontime8	8352.0001244545	Sum of GTIs [s]
ontime9	8352.0001244545	Sum of GTIs [s]
l2events	175992	Number of level 2 events

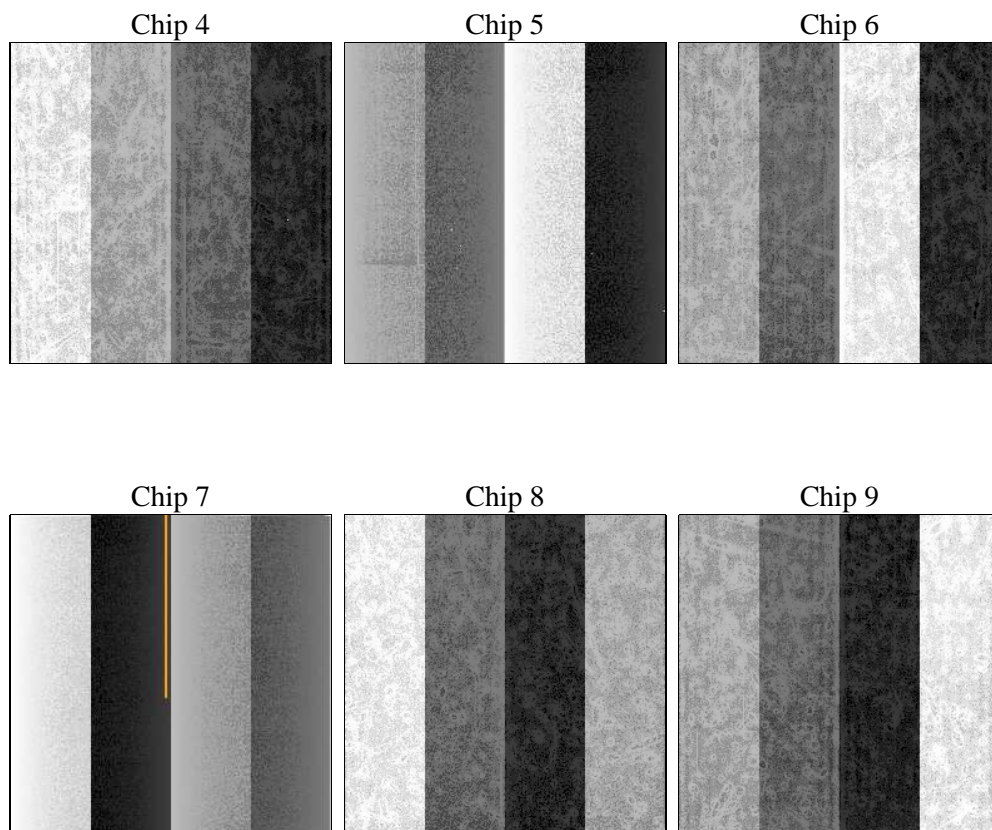
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	8352.0001244545	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime4	8352.0001244545	Sum of GTIs [s]
date	2015-10-27T20:51:52	Date and time of file creation	ontime5	8352.0001244545	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8352.0001244545	Sum of GTIs [s]
			ontime7	8352.0001244545	Sum of GTIs [s]
			ontime8	8352.0001244545	Sum of GTIs [s]
			ontime9	8352.0001244545	Sum of GTIs [s]
			l1events	906976	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	155809	138799	164625	121087	153390	173266	grade 0 events	12129	8571	9348	5286	12710	10086
rejected events	133211	81259	143187	73315	122548	151965		7%	6%	5%	4%	8%	5%
rejected %	85%	58%	86%	60%	79%	87%	grade 1 events	118	185	53	88	74	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	4395	19290	5393	12135	7007	4583
								2%	13%	3%	10%	4%	2%
							grade 3 events	1628	1418	1359	3477	2571	1439
								1%	1%	0%	2%	1%	0%
							grade 4 events	1579	1487	1368	3327	2344	1500
								1%	1%	0%	2%	1%	0%
							grade 5 events	3325	6184	3067	7350	4091	3561
								2%	4%	1%	6%	2%	2%
							grade 6 events	3049	27403	4218	24060	6511	3888
								1%	19%	2%	19%	4%	2%
							grade 7 events	129586	74261	139819	65364	118082	148154
								83%	53%	84%	53%	76%	85%

## 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	37.71760105439309
[deg] Pointing Dec	0	-10.97163814112545
[deg] Pointing Roll	0.0	15.75024504697825
[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)	562315893.0806659	562315892.05567
Observation start date	2015-10-27T06:51:33	2015-10-27T06:51:32
[s] Observation end time (MET)	562326874.9312871	562326873.9062901
Observation end date	2015-10-27T09:54:35	2015-10-27T09:54:33
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)	2015.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3520001244545

### A.2 Comments