

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53385 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 20 2013

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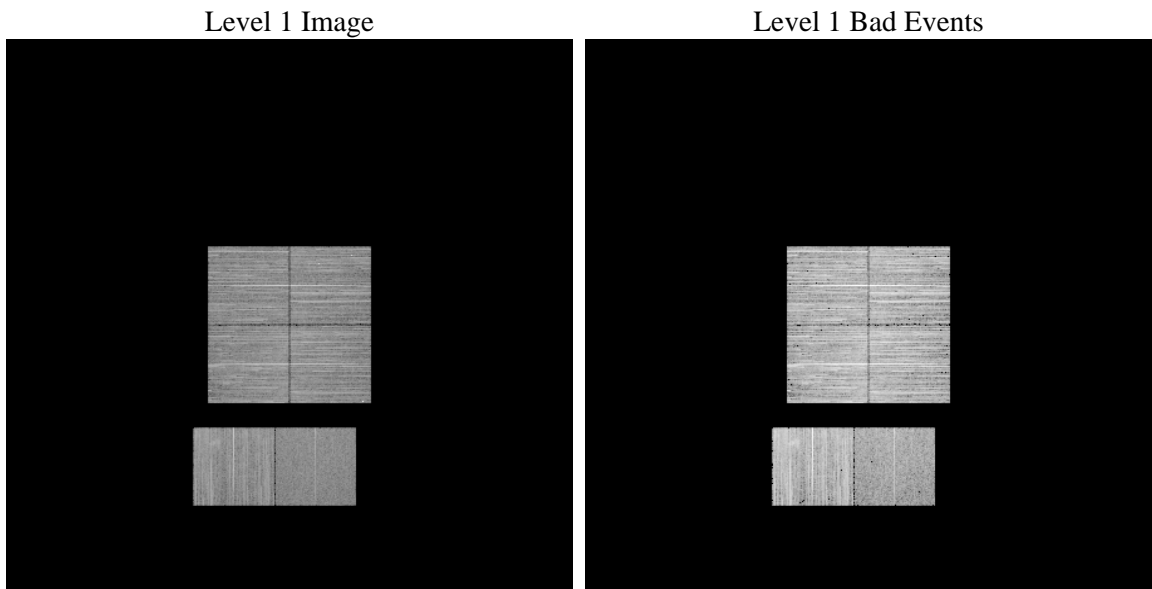
# 1 Front

seq_num	&#160	Sequence number
obs_id	53385	Observation id
title	ACIS-012367 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	352.01678461501	Nominal RA [deg]
dec_nom	-19.995695464366	Nominal Dec [deg]
roll_nom	344.39654671187	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5516.2069612741	Sum of GTIs [s]
livetime	5446.3574272694	Livetime [s]
ontime0	5516.2069513798	Sum of GTIs [s]
ontime1	5516.2069513798	Sum of GTIs [s]
ontime2	5516.1739497185	Sum of GTIs [s]
ontime3	5516.2069513798	Sum of GTIs [s]
ontime6	5516.1329097152	Sum of GTIs [s]
ontime7	5516.2069612741	Sum of GTIs [s]
l2events	170143	Number of level 2 events

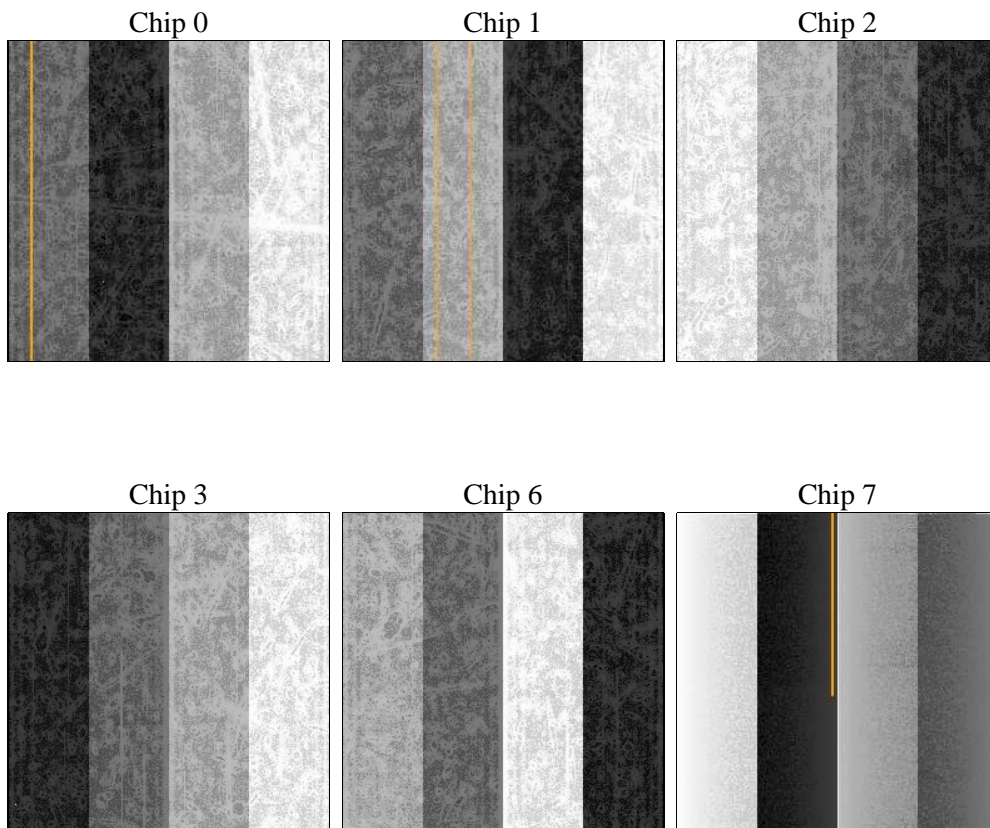
## 2 OBI

### 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	5516.2069612741	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	5516.2069513798	Sum of GTIs [s]
date	2013-09-20T14:17:14	Date and time of file creation	ontime1	5516.2069513798	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5516.1739497185	Sum of GTIs [s]
			ontime3	5516.2069513798	Sum of GTIs [s]
			ontime6	5516.1329097152	Sum of GTIs [s]
			ontime7	5516.2069612741	Sum of GTIs [s]
			l1events	665511	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	111928	113400	115817	116638	119133	88595	grade 0 events	10411	9532	11527	12878	8198	5992
rejected events	84728	85703	88586	87698	90591	46488		9%	8%	9%	11%	6%	6%
rejected %	75%	75%	76%	75%	76%	52%	grade 1 events	49	39	56	54	29	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	8795	10178	7862	7900	11687	10858
								7%	8%	6%	6%	9%	12%
							grade 3 events	1383	1103	1467	1460	1016	2938
								1%	0%	1%	1%	0%	3%
							grade 4 events	1268	1116	1412	1469	999	2869
								1%	0%	1%	1%	0%	3%
							grade 5 events	1541	1582	1524	1807	1406	4173
								1%	1%	1%	1%	1%	4%
							grade 6 events	5343	5768	4963	5233	6642	19450
								4%	5%	4%	4%	5%	21%
							grade 7 events	83138	84082	87006	85837	89156	42256
								74%	74%	75%	73%	74%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	352.0167846150088	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-19.9956954643657	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	344.3965467118696	[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)	496012006.755936	496012005.73094			
Observation start date	2013-09-19T21:06:47	2013-09-19T21:06:45			
[s] Observation end time (MET)	496028197.65682	496028196.63182			
Observation end date	2013-09-20T01:36:38	2013-09-20T01:36:36			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.5162069612741

### A.2 Comments