

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53551 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 29 2013

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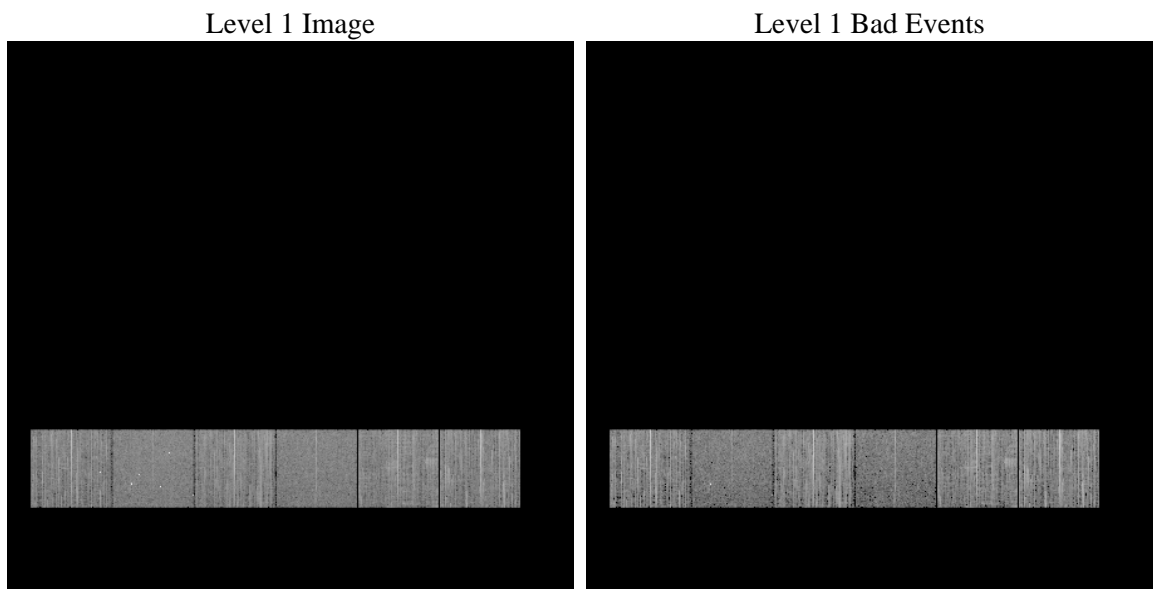
# 1 Front

seq_num	&#160	Sequence number
obs_id	53551	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	325.98266128098	Nominal RA [deg]
dec_nom	-24.076014889284	Nominal Dec [deg]
roll_nom	90.721458605697	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4763.2592465281	Sum of GTIs [s]
livetime	4702.9439898582	Livetime [s]
ontime4	4766.3771768808	Sum of GTIs [s]
ontime5	4763.2182064652	Sum of GTIs [s]
ontime6	4766.4182168841	Sum of GTIs [s]
ontime7	4763.2592465281	Sum of GTIs [s]
ontime8	4763.0950965285	Sum of GTIs [s]
ontime9	4766.541336894	Sum of GTIs [s]
l2events	129639	Number of level 2 events

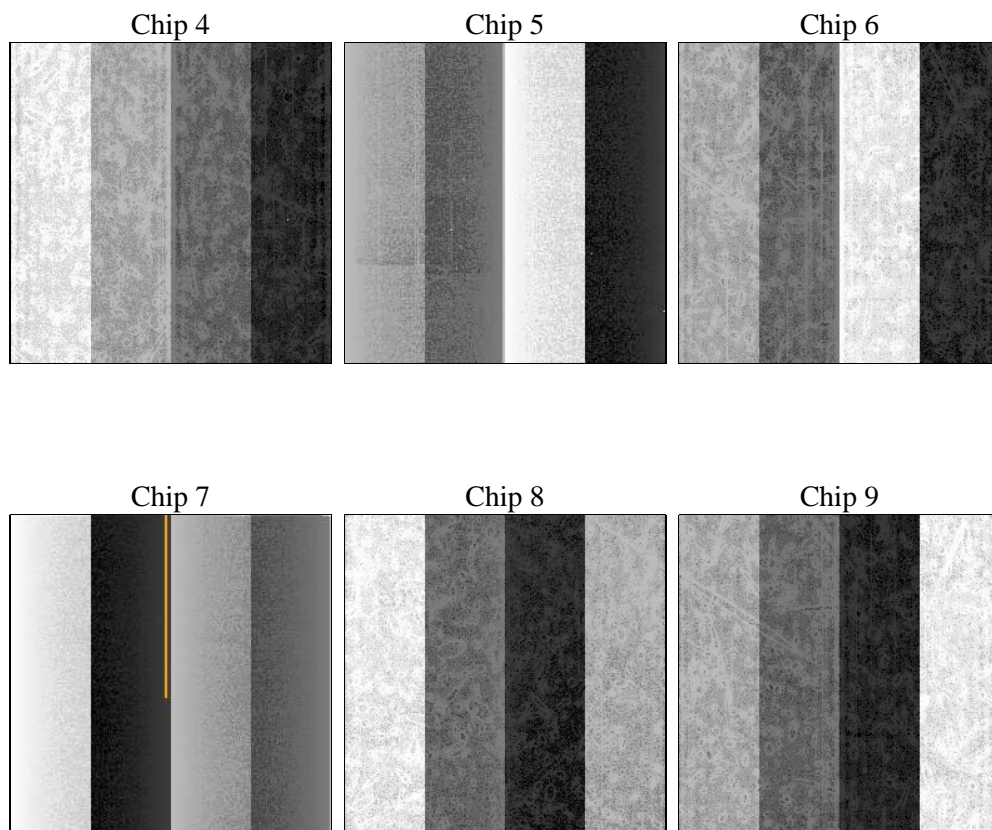
## 2 OBI

### 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	4763.2592465281	Sum of GTIs [s]
caldbver	4.5.7	&#160	ontime4	4766.3771768808	Sum of GTIs [s]
date	2013-07-29T21:55:24	Date and time of file creation	ontime5	4763.2182064652	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4766.4182168841	Sum of GTIs [s]
			ontime7	4763.2592465281	Sum of GTIs [s]
			ontime8	4763.0950965285	Sum of GTIs [s]
			ontime9	4766.541336894	Sum of GTIs [s]
			l1events	483564	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	79800	76487	85747	67462	86242	87826	grade 0 events	10976	6838	9116	4482	10568	9112
rejected events	60654	39547	67168	36177	62981	69684		13%	8%	10%	6%	12%	10%
rejected %	76%	51%	78%	53%	73%	79%	grade 1 events	65	138	39	45	66	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	3318	12800	3927	7751	4761	3615
								4%	16%	4%	11%	5%	4%
							grade 3 events	1270	1022	1194	2490	1777	1224
								1%	1%	1%	3%	2%	1%
							grade 4 events	1284	1067	1122	2444	1785	1207
								1%	1%	1%	3%	2%	1%
							grade 5 events	1663	3326	1608	3863	2247	1836
								2%	4%	1%	5%	2%	2%
							grade 6 events	2298	15213	3220	14118	4374	2984
								2%	19%	3%	20%	5%	3%
							grade 7 events	58926	36083	65521	32269	60664	67798
								73%	47%	76%	47%	70%	77%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	325.982661280985	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-24.0760148892839	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	90.72145860569741	[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)	490331140.746137	490331139.72121			
Observation start date	2013-07-16T03:05:41	2013-07-16T03:05:39			
[s] Observation end time (MET)	490337805.296499	490337804.27157			
Observation end date	2013-07-16T04:56:45	2013-07-16T04:56:44			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.07.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7632592465281

## A.2 Comments

After the initial processing of the raw data, the Ground Operations Team discovered a double-bit error in the raw data. The corrupted data were removed

from the raw data file and this obsid was reprocessed. This version uses the corrected raw telemetry file.