

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 62158 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Aug 24 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

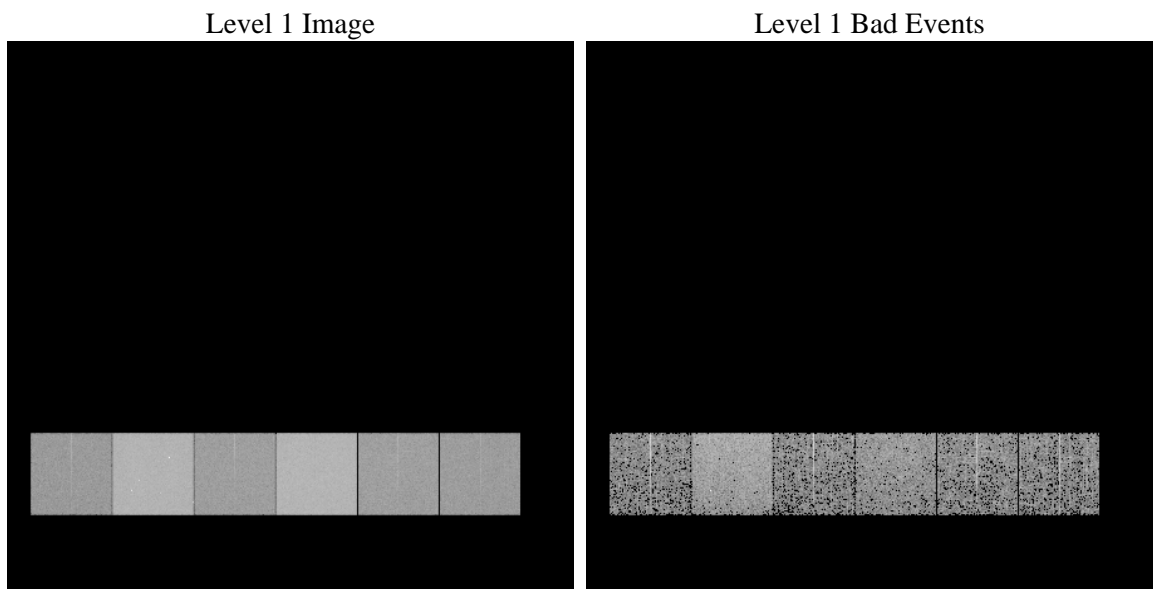
1 Front

seq_num	 	Sequence number
obs_id	62158	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
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	119.98686966603	Nominal RA [deg]
dec_nom	54.972782160556	Nominal Dec [deg]
roll_nom	225.6031170382	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2935.1687164158	Sum of GTIs [s]
livetime	2898.0018427821	Livetime [s]
ontime4	1176.4962806404	Sum of GTIs [s]
ontime5	3142.5511054993	Sum of GTIs [s]
ontime6	1285.4048576504	Sum of GTIs [s]
ontime7	2935.1687164158	Sum of GTIs [s]
ontime8	1322.3429207206	Sum of GTIs [s]
ontime9	1244.557990849	Sum of GTIs [s]
l2events	929635	Number of level 2 events

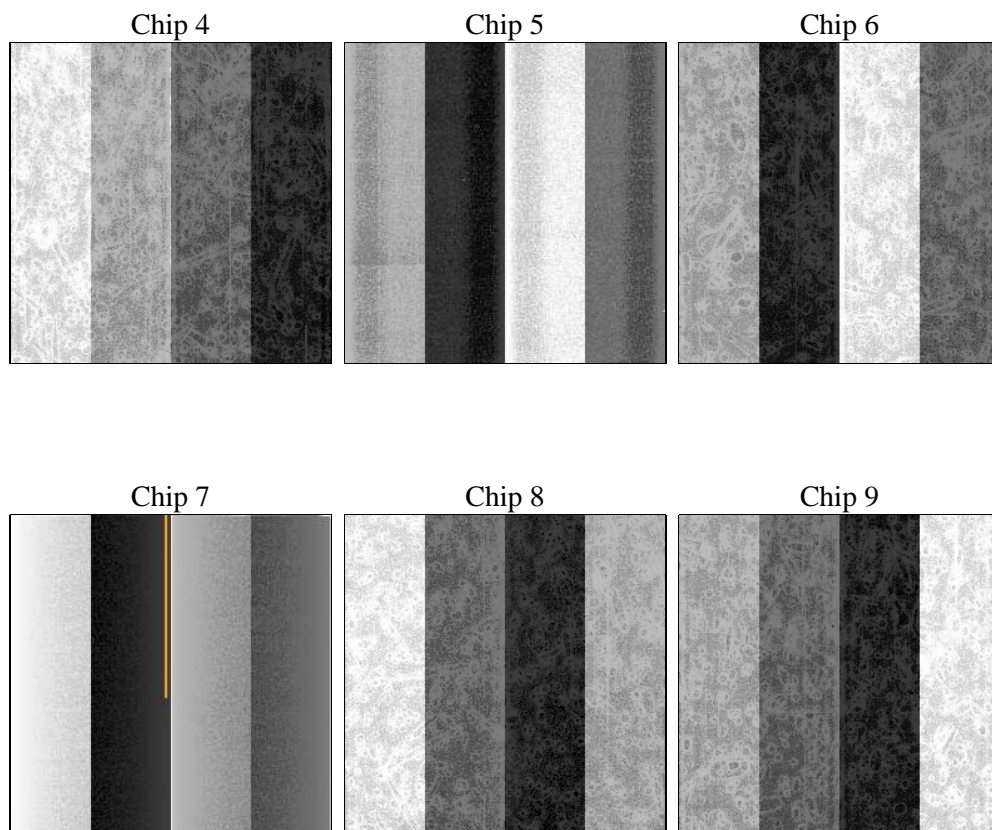
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2935.1687164158	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime4	1176.4962806404	Sum of GTIs [s]
date	2012-08-24T14:11:05	Date and time of file creation	ontime5	3142.5511054993	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	1285.4048576504	Sum of GTIs [s]
			ontime7	2935.1687164158	Sum of GTIs [s]
			ontime8	1322.3429207206	Sum of GTIs [s]
			ontime9	1244.557990849	Sum of GTIs [s]
			l1events	1064454	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	112986	275413	131892	285891	135510	122762	grade 0 events	56596	64151	65330	69458	67128	60395
rejected events	12837	26007	12841	16533	13693	12710		50%	23%	49%	24%	49%	49%
rejected %	11%	9%	9%	5%	10%	10%	grade 1 events	337	199	376	205	434	378
								0%	0%	0%	0%	0%	0%
							grade 2 events	17615	86824	20400	59801	21408	19391
								15%	31%	15%	20%	15%	15%
							grade 3 events	6214	16765	7488	27854	7600	6973
								5%	6%	5%	9%	5%	5%
							grade 4 events	6215	16789	7254	27462	7785	6823
								5%	6%	5%	9%	5%	5%
							grade 5 events	870	5604	975	3819	1072	1019
								0%	2%	0%	1%	0%	0%
							grade 6 events	13509	64877	18579	84783	17896	16470
								11%	23%	14%	29%	13%	13%
							grade 7 events	11630	20204	11490	12509	12187	11313
								10%	7%	8%	4%	8%	9%

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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	119.9868696660325	Alternating exposures requested	N	N
[deg] Pointing Dec	0	54.97278216055602	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	225.6031170382047			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	67659648.79963399	67659648.03116401			
Observation start date	2000-02-23T02:20:49	2000-02-23T02:20:48			
[s] Observation end time (MET)	67666948.84990001	67666948.08143			
Observation end date	2000-02-23T04:22:29	2000-02-23T04:22:28			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9351687164158

A.2 Comments

The bias map for CCD_ID = 5 was incomplete because of data gaps in telemetry. Bias map for chip 5 were reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps. The region affected is bounded by the chip coordinates:
(1,645),(1024,645),(1024,654),(1,654)