

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 52495 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Sep 8 2014

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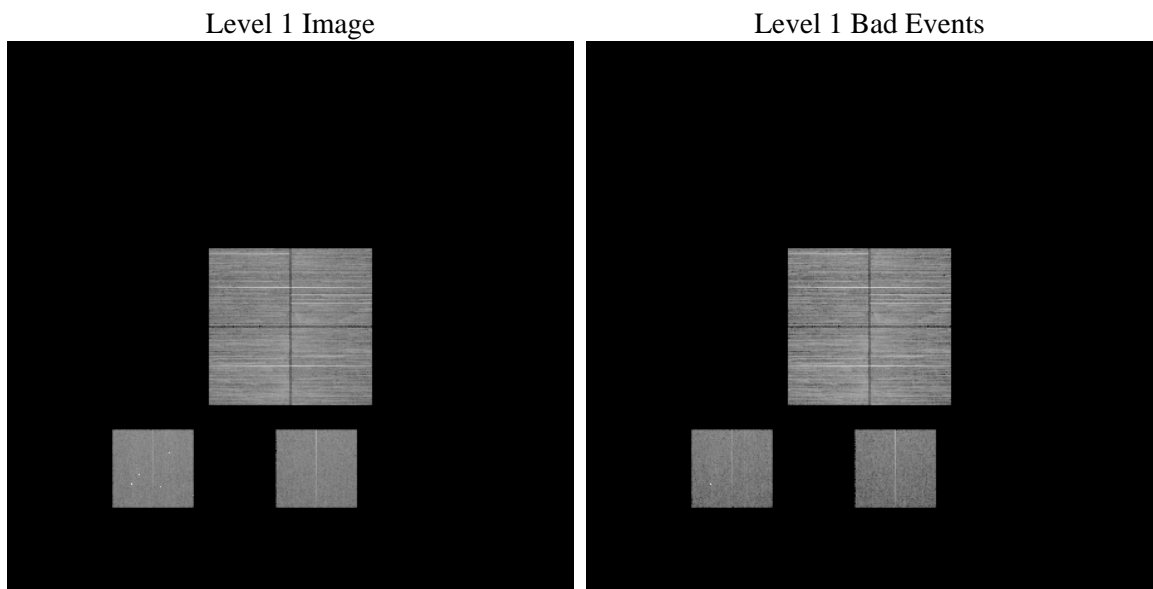
1 Front

seq_num	 	Sequence number
obs_id	52495	Observation id
title	ACIS-012357 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	325.81043708191	Nominal RA [deg]
dec_nom	10.792406831488	Nominal Dec [deg]
roll_nom	224.26845400446	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8456.6457403898	Sum of GTIs [s]
livetime	8349.5626000443	Livetime [s]
ontime0	8456.6047003865	Sum of GTIs [s]
ontime1	8456.5636603832	Sum of GTIs [s]
ontime2	8456.5226203799	Sum of GTIs [s]
ontime3	8453.4457700253	Sum of GTIs [s]
ontime5	8456.4815803766	Sum of GTIs [s]
ontime7	8456.6457403898	Sum of GTIs [s]
l2events	222849	Number of level 2 events

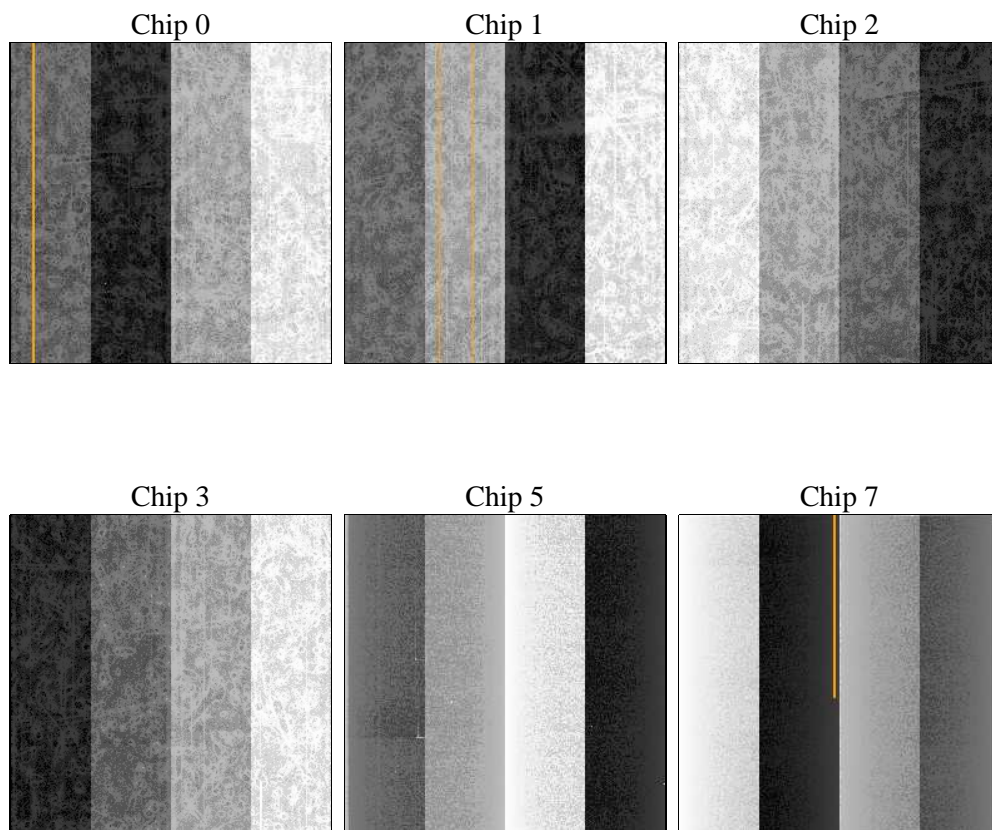
2 OBI

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	10.2.4	Processing system revision	ontime	8456.6457403898	Sum of GTIs [s]
caldsver	4.6.3	 	ontime0	8456.6047003865	Sum of GTIs [s]
date	2014-09-08T22:19:16	Date and time of file creation	ontime1	8456.5636603832	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8456.5226203799	Sum of GTIs [s]
			ontime3	8453.4457700253	Sum of GTIs [s]
			ontime5	8456.4815803766	Sum of GTIs [s]
			ontime7	8456.6457403898	Sum of GTIs [s]
			l1events	1046640	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	173760	189681	205418	183977	155867	137937	grade 0 events	13643	13399	14579	14110	9938	7609
rejected events	146149	161760	177301	156423	86724	78304		7%	7%	7%	7%	6%	5%
rejected %	84%	85%	86%	85%	55%	56%	grade 1 events	110	74	96	104	214	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	5747	6043	5428	5283	24599	15058
								3%	3%	2%	2%	15%	10%
							grade 3 events	1969	1871	1932	1987	2403	4779
								1%	0%	0%	1%	1%	3%
							grade 4 events	1908	1921	2005	2002	2355	4689
								1%	1%	0%	1%	1%	3%
							grade 5 events	3086	2985	2926	3410	7158	8337
								1%	1%	1%	1%	4%	6%
							grade 6 events	4357	4701	4182	4184	29871	27523
								2%	2%	2%	2%	19%	19%
							grade 7 events	142940	158687	174270	152897	79329	69833
								82%	83%	84%	83%	50%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	325.8104370819078	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	10.79240683148789	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	224.268454004457	[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)	526206847.919225	526206846.89423			
Observation start date	2014-09-04T08:34:08	2014-09-04T08:34:06			
[s] Observation end time (MET)	526219926.919952	526219925.89495			
Observation end date	2014-09-04T12:12:07	2014-09-04T12:12:05			
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)	2014.09.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4566457403898

A.2 Comments

A spatial region of the original bias map for CCD = 2 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 2 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.