

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 54580 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 18 2012

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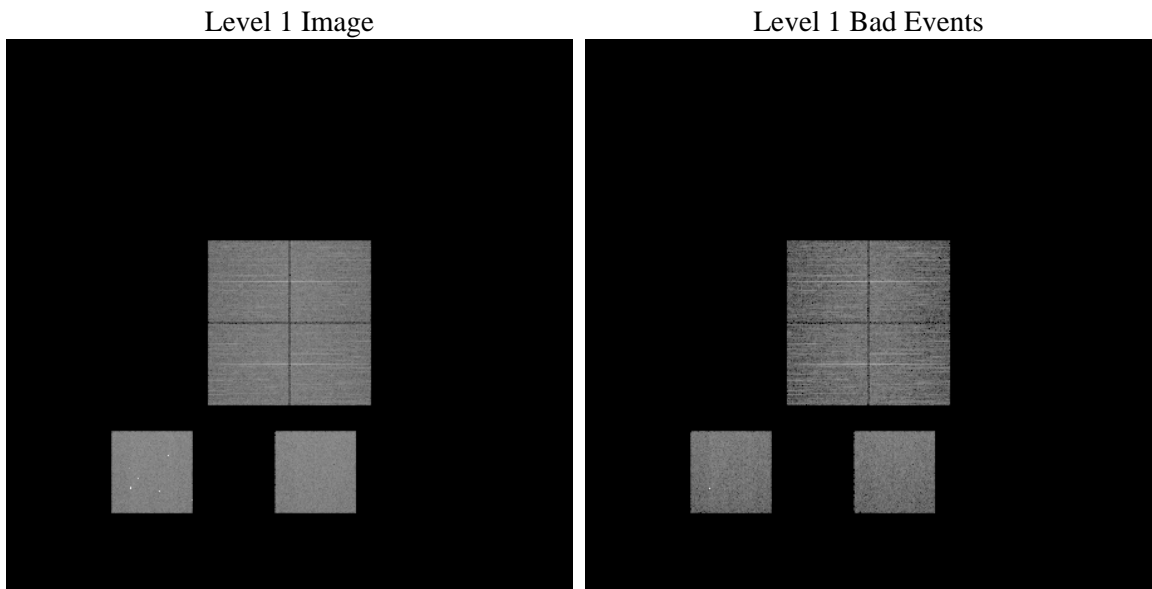
1 Front

seq_num	 	Sequence number
obs_id	54580	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	247.47630604927	Nominal RA [deg]
dec_nom	7.4829569303069	Nominal Dec [deg]
roll_nom	182.81973603118	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8254.8614904284	Sum of GTIs [s]
livetime	8150.3334637558	Livetime [s]
ontime0	8254.8614805341	Sum of GTIs [s]
ontime1	8254.8614805341	Sum of GTIs [s]
ontime2	8254.8614805341	Sum of GTIs [s]
ontime3	8254.8614904284	Sum of GTIs [s]
ontime5	8254.8224740624	Sum of GTIs [s]
ontime7	8254.8614904284	Sum of GTIs [s]
l2events	279058	Number of level 2 events

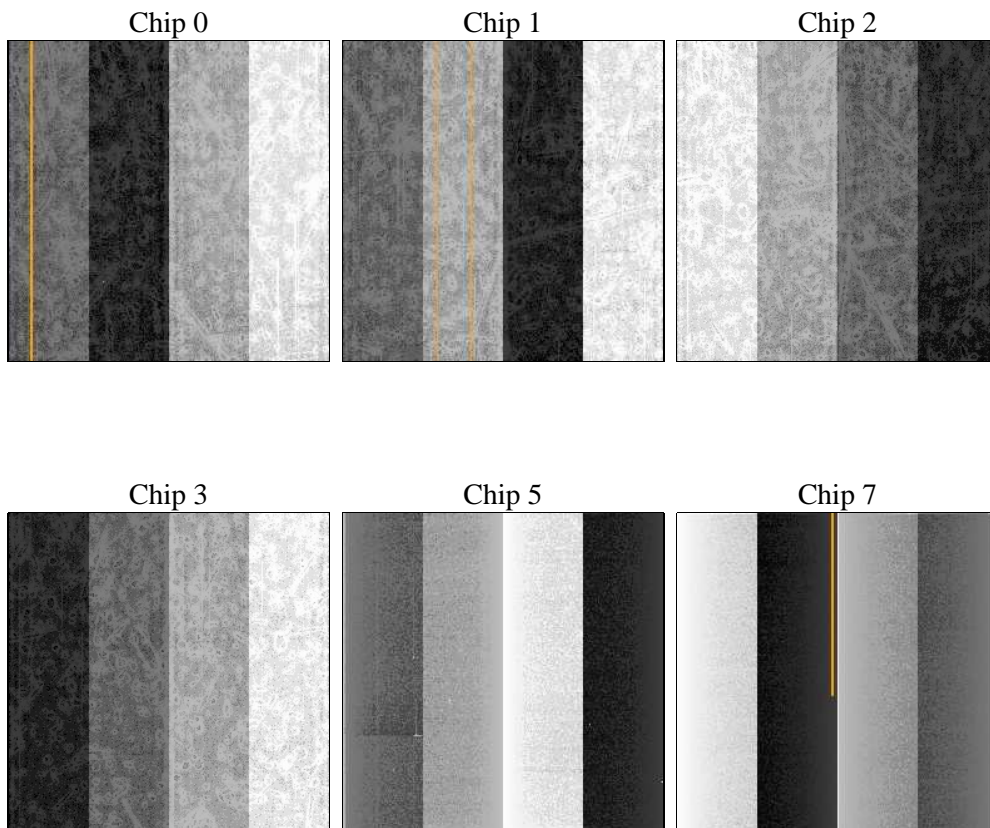
2 OBI

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	8254.8614904284	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	8254.8614805341	Sum of GTIs [s]
date	2012-06-18T14:05:03	Date and time of file creation	ontime1	8254.8614805341	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8254.8614805341	Sum of GTIs [s]
			ontime3	8254.8614904284	Sum of GTIs [s]
			ontime5	8254.8224740624	Sum of GTIs [s]
			ontime7	8254.8614904284	Sum of GTIs [s]
			l1events	596325	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	84800	85775	87359	89341	129789	119261	grade 0 events	20653	20183	21119	21188	11270	10614
rejected events	45341	45951	47809	49656	56140	53170		24%	23%	24%	23%	8%	8%
rejected %	53%	53%	54%	55%	43%	44%	grade 1 events	122	98	122	110	184	105
								0%	0%	0%	0%	0%	0%
							grade 2 events	7320	7817	7023	7115	26066	14011
								8%	9%	8%	7%	20%	11%
							grade 3 events	2666	2646	2744	2761	2603	5947
								3%	3%	3%	3%	2%	4%
							grade 4 events	2660	2644	2697	2812	2523	5834
								3%	3%	3%	3%	1%	4%
							grade 5 events	3086	3223	2990	3335	7048	8228
								3%	3%	3%	3%	5%	6%
							grade 6 events	6160	6534	5967	5809	31187	29685
								7%	7%	6%	6%	24%	24%
							grade 7 events	42133	42630	44697	46211	48908	44837
								49%	49%	51%	51%	37%	37%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	247.4763060492678
[deg] Pointing Dec	0	7.482956930306876
[deg] Pointing Roll	0.0	182.8197360311839
[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)	454881929.987486	454881928.96249
Observation start date	2012-05-31T20:05:30	2012-05-31T20:05:28
[s] Observation end time (MET)	454900369.738469	454900368.71347
Observation end date	2012-06-01T01:12:50	2012-06-01T01:12:48
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2548614904284

A.2 Comments

A spatial region of the original bias map for CCD = 1 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 = 1 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by chip coords:
(259,656),(433,656),(433,874),(259,816)