

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 55804 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jul 9 2012

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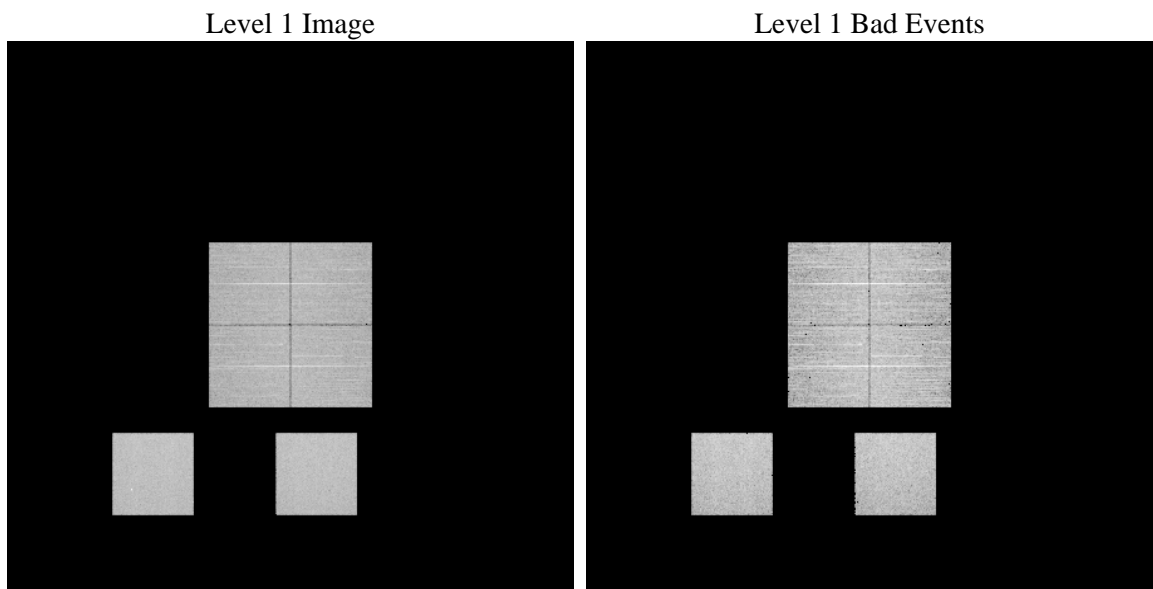
1 Front

seq_num	 	Sequence number
obs_id	55804	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	209.95103478427	Nominal RA [deg]
dec_nom	-60.983799331112	Nominal Dec [deg]
roll_nom	112.83056384628	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8172.7999696136	Sum of GTIs [s]
livetime	8069.311055329	Livetime [s]
ontime0	8172.7999696136	Sum of GTIs [s]
ontime1	8172.7999696136	Sum of GTIs [s]
ontime2	8172.7999696136	Sum of GTIs [s]
ontime3	8172.7999696136	Sum of GTIs [s]
ontime5	8172.7999696136	Sum of GTIs [s]
ontime7	8172.7999696136	Sum of GTIs [s]
l2events	372351	Number of level 2 events

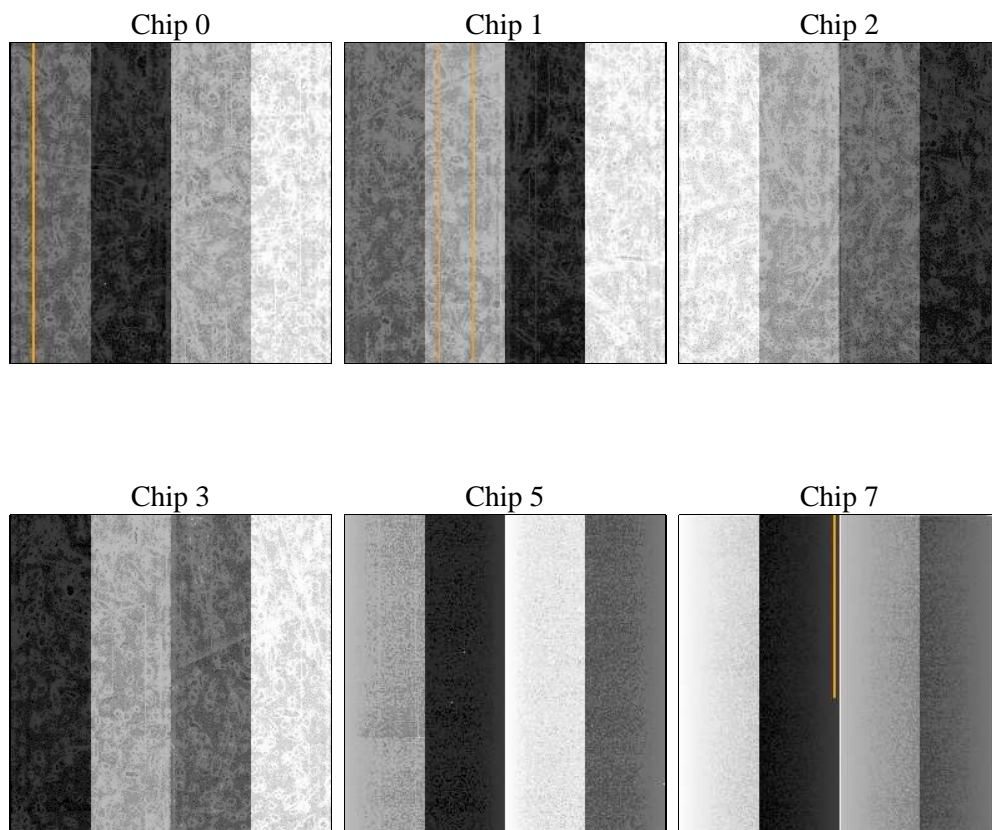
2 OBI

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	8.4.5	Processing system revision	ontime	8172.7999696136	Sum of GTIs [s]
caldsver	4.5.0	 	ontime0	8172.7999696136	Sum of GTIs [s]
date	2012-07-09T13:22:13	Date and time of file creation	ontime1	8172.7999696136	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8172.7999696136	Sum of GTIs [s]
			ontime3	8172.7999696136	Sum of GTIs [s]
			ontime5	8172.7999696136	Sum of GTIs [s]
			ontime7	8172.7999696136	Sum of GTIs [s]
			l1events	740395	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	110496	109650	111099	115342	148062	145746	grade 0 events	28539	28220	29379	29580	10834	14993
rejected events	55768	54868	56632	60677	61811	59880		25%	25%	26%	25%	7%	10%
rejected %	50%	50%	50%	52%	41%	41%	grade 1 events	167	159	203	191	146	139
								0%	0%	0%	0%	0%	0%
							grade 2 events	10332	10481	9538	9658	30900	18464
								9%	9%	8%	8%	20%	12%
							grade 3 events	3833	3706	3769	3693	3688	7771
								3%	3%	3%	3%	2%	5%
							grade 4 events	3603	3722	3674	3814	3668	7652
								3%	3%	3%	3%	2%	5%
							grade 5 events	3584	3620	3452	3822	8068	9563
								3%	3%	3%	3%	5%	6%
							grade 6 events	8447	8682	8135	7963	37197	37023
								7%	7%	7%	6%	25%	25%
							grade 7 events	51991	51060	52949	56621	53561	50141
								47%	46%	47%	49%	36%	34%

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	209.9510347842709
[deg] Pointing Dec	0	-60.98379933111245
[deg] Pointing Roll	0.0	112.8305638462832
[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)	408758932.034302	408758931.0093
Observation start date	2010-12-15T00:08:52	2010-12-15T00:08:51
[s] Observation end time (MET)	408769001.634821	408769000.60981
Observation end date	2010-12-15T02:56:42	2010-12-15T02:56:40
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)	2012.07.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1727999696136

A.2 Comments

A spatial region of the original bias map for CCD = 3 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 = 3 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:
(281,1),(354,1),(354,745),(281,781)