

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 60975 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 25 2013

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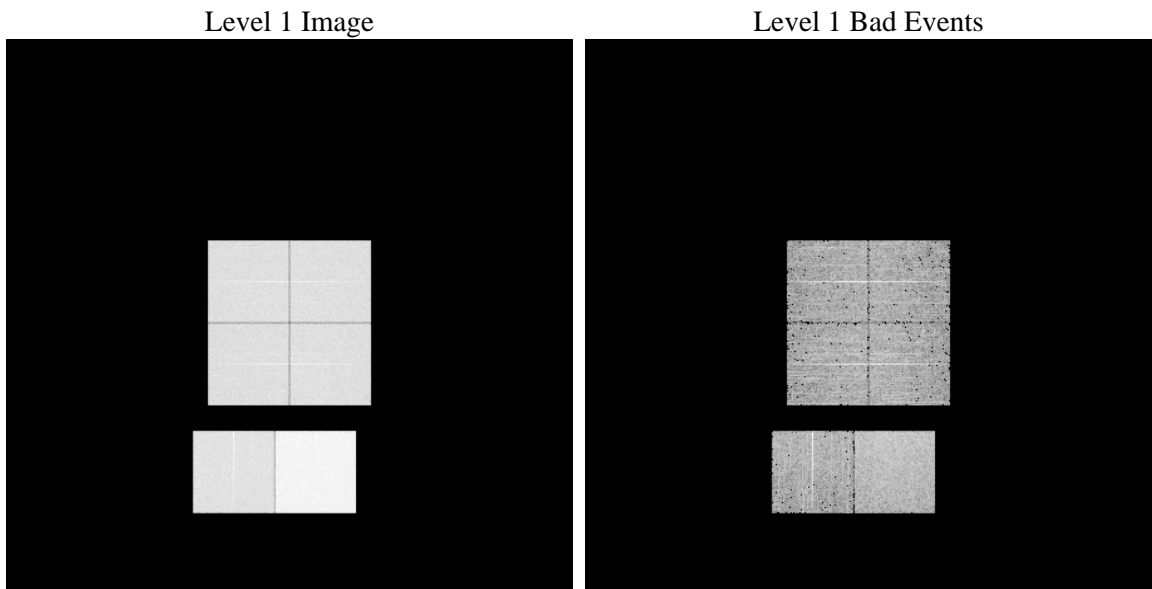
1 Front

seq_num	 	Sequence number
obs_id	60975	Observation id
title	ACIS-012367 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	162.19125684056	Nominal RA [deg]
dec_nom	-3.1727630664983	Nominal Dec [deg]
roll_nom	74.976828976259	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8463.9999684691	Sum of GTIs [s]
livetime	8356.8237044595	Livetime [s]
ontime0	4147.0320918858	Sum of GTIs [s]
ontime1	4128.479322046	Sum of GTIs [s]
ontime2	3943.784122169	Sum of GTIs [s]
ontime3	4060.2951295674	Sum of GTIs [s]
ontime6	4312.3226001263	Sum of GTIs [s]
ontime7	8463.9999684691	Sum of GTIs [s]
l2events	1301980	Number of level 2 events

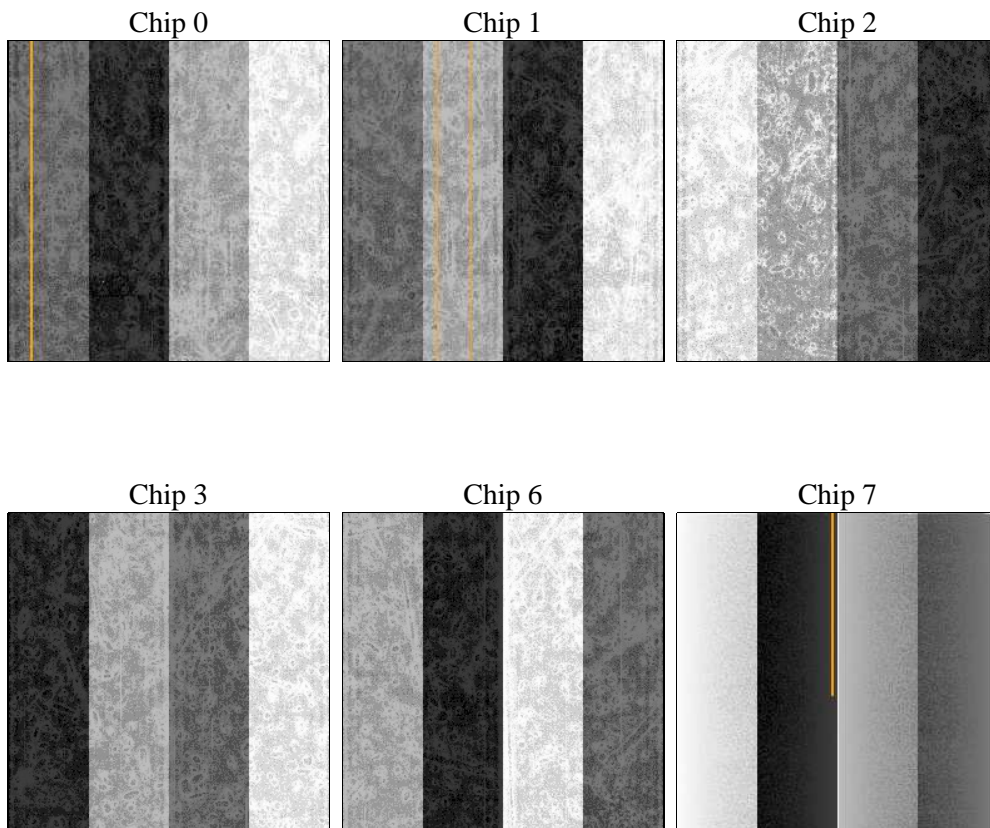
2 OBI

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	8.5.1.1	Processing system revision	ontime	8463.9999684691	Sum of GTIs [s]
caldbver	4.5.6	 	ontime0	4147.0320918858	Sum of GTIs [s]
date	2013-03-25T15:03:59	Date and time of file creation	ontime1	4128.479322046	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3943.784122169	Sum of GTIs [s]
			ontime3	4060.2951295674	Sum of GTIs [s]
			ontime6	4312.3226001263	Sum of GTIs [s]
			ontime7	8463.9999684691	Sum of GTIs [s]
			l1events	1552152	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	216614	216063	212216	217682	238253	451324	grade 0 events	103966	103420	102070	105289	112419	101911
rejected events	27990	27514	29857	30258	31656	45177		47%	47%	48%	48%	47%	22%
rejected %	12%	12%	14%	13%	13%	10%	grade 1 events	613	502	615	662	570	266
								0%	0%	0%	0%	0%	0%
							grade 2 events	32541	33229	30919	32135	35629	89437
								15%	15%	14%	14%	14%	19%
							grade 3 events	12154	12053	11992	12121	12866	41088
								5%	5%	5%	5%	5%	9%
							grade 4 events	12198	11987	11723	12008	12634	40528
								5%	5%	5%	5%	5%	8%
							grade 5 events	2110	1892	1903	2102	2143	8747
								0%	0%	0%	0%	0%	1%
							grade 6 events	27765	27860	25655	25871	33049	133183
								12%	12%	12%	11%	13%	29%
							grade 7 events	25267	25120	27339	27494	28943	36164
								11%	11%	12%	12%	12%	8%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	162.1912568405561	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-3.172763066498288	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	74.97682897625913			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	152412326.768859	152412325.74414			
Observation start date	2002-10-31T00:45:27	2002-10-31T00:45:25			
[s] Observation end time (MET)	152435463.069821	152435462.0451			
Observation end date	2002-10-31T07:11:03	2002-10-31T07:11:02			
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)	2013.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4639999684691

A.2 Comments

A spatial region of the original bias map for CCD = 6 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 = 6 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:
(885,1),(910,1),(910,124),(885,136)