

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 57015 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jun 11 2012

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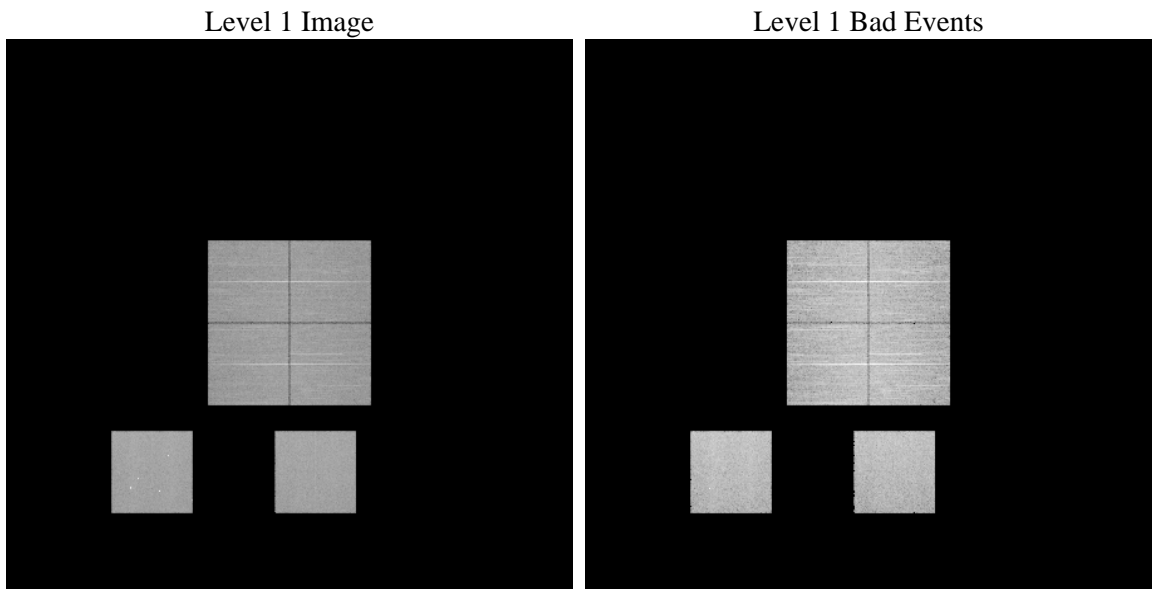
1 Front

seq_num	 	Sequence number
obs_id	57015	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	24.976943755228	Nominal RA [deg]
dec_nom	27.02012931294	Nominal Dec [deg]
roll_nom	102.91687921168	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8449.9893092513	Sum of GTIs [s]
livetime	8342.9904566449	Livetime [s]
ontime0	8449.948269248	Sum of GTIs [s]
ontime1	8449.9072292447	Sum of GTIs [s]
ontime2	8449.8661892414	Sum of GTIs [s]
ontime3	8450.0303492546	Sum of GTIs [s]
ontime5	8449.8251492381	Sum of GTIs [s]
ontime7	8449.9893092513	Sum of GTIs [s]
l2events	523370	Number of level 2 events

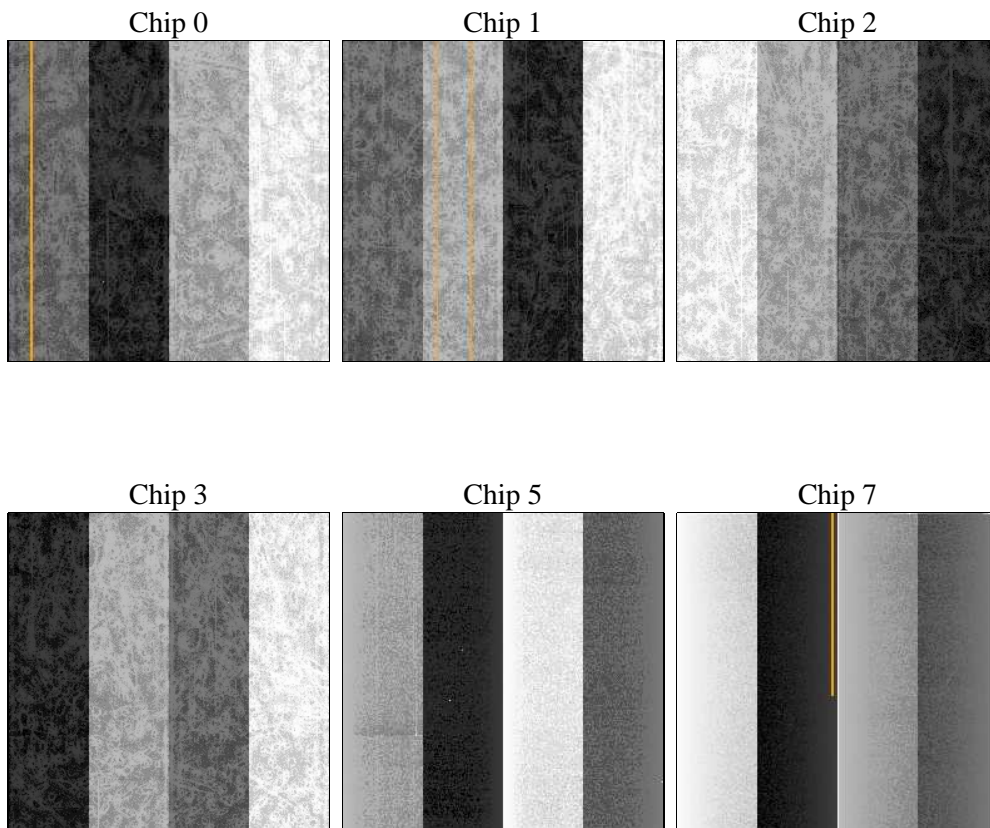
2 OBI

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	8449.9893092513	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	8449.948269248	Sum of GTIs [s]
date	2012-06-11T12:59:12	Date and time of file creation	ontime1	8449.9072292447	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8449.8661892414	Sum of GTIs [s]
			ontime3	8450.0303492546	Sum of GTIs [s]
			ontime5	8449.8251492381	Sum of GTIs [s]
			ontime7	8449.9893092513	Sum of GTIs [s]
			l1events	1020498	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	155513	152783	160648	161464	197748	192342	grade 0 events	41637	40823	42908	42859	16715	21031
rejected events	77570	74003	82232	82778	77994	74143		26%	26%	26%	26%	8%	10%
rejected %	49%	48%	51%	51%	39%	38%	grade 1 events	325	259	352	349	290	173
								0%	0%	0%	0%	0%	0%
							grade 2 events	14102	15220	13416	13393	43957	25934
								9%	9%	8%	8%	22%	13%
							grade 3 events	5256	5075	5429	5567	4542	10614
								3%	3%	3%	3%	2%	5%
							grade 4 events	5183	5095	5237	5372	4547	10728
								3%	3%	3%	3%	2%	5%
							grade 5 events	4224	4360	3948	4828	9626	11467
								2%	2%	2%	2%	4%	5%
							grade 6 events	11801	12583	11458	11524	50024	49942
								7%	8%	7%	7%	25%	25%
							grade 7 events	72985	69368	77900	77572	68047	62453
								46%	45%	48%	48%	34%	32%

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	24.97694375522817	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	27.02012931294047	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	102.9168792116753	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	362154180.468213	362154179.44321			
Observation start date	2009-06-23T14:23:00	2009-06-23T14:22:59			
[s] Observation end time (MET)	362164360.768722	362164359.74372			
Observation end date	2009-06-23T17:12:41	2009-06-23T17:12:39			
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)	2012.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4499893092513

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. The pixels affected by the anomaly are bounded by chip coords:
(639,1),(689,1),(689,77),(639,77)