

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56472 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jun 21 2012

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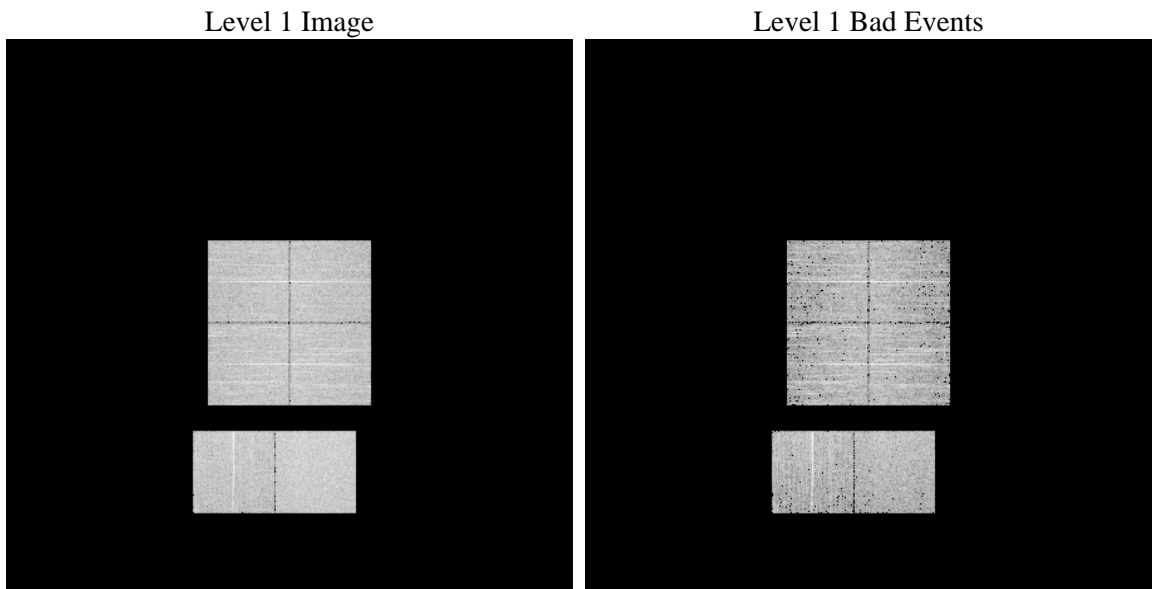
1 Front

seq_num	 	Sequence number
obs_id	56472	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	130.02748386594	Nominal RA [deg]
dec_nom	-7.4910639575877	Nominal Dec [deg]
roll_nom	345.44187047984	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3382.3999874592	Sum of GTIs [s]
livetime	3339.5700021812	Livetime [s]
ontime0	3382.3999874592	Sum of GTIs [s]
ontime1	3382.3999874592	Sum of GTIs [s]
ontime2	3382.3999874592	Sum of GTIs [s]
ontime3	3382.3999874592	Sum of GTIs [s]
ontime6	3382.3999874592	Sum of GTIs [s]
ontime7	3382.3999874592	Sum of GTIs [s]
l2events	168371	Number of level 2 events

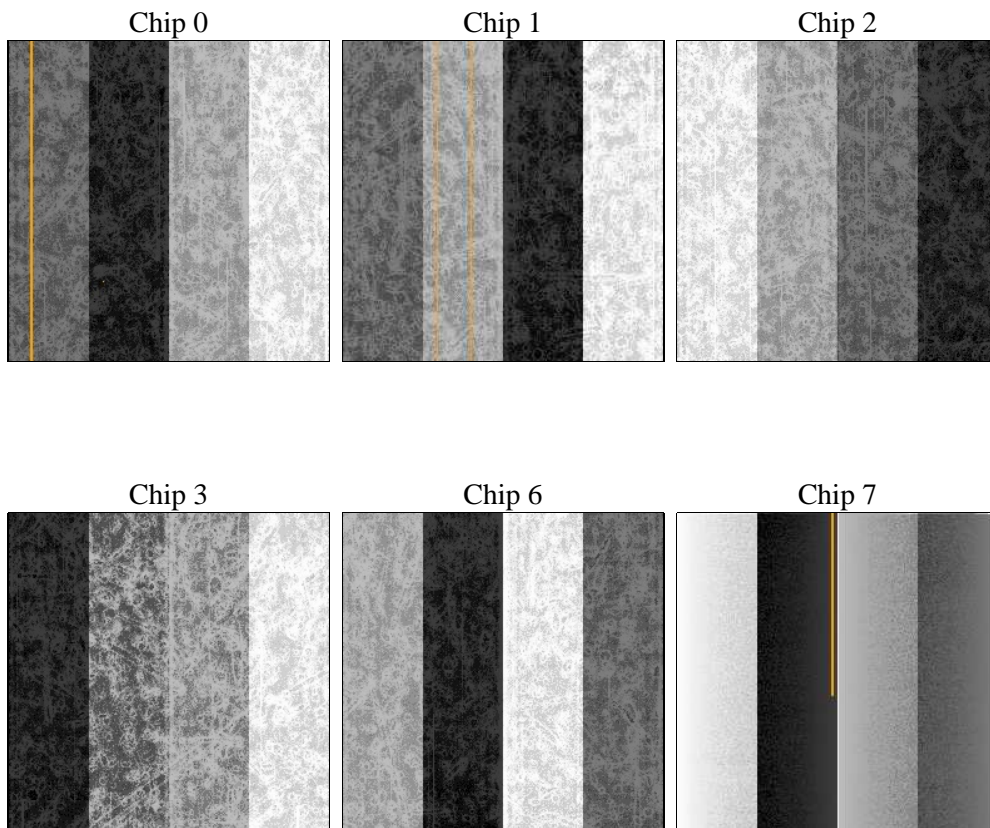
2 OBI

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	3382.3999874592	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	3382.3999874592	Sum of GTIs [s]
date	2012-06-21T15:02:44	Date and time of file creation	ontime1	3382.3999874592	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3382.3999874592	Sum of GTIs [s]
			ontime3	3382.3999874592	Sum of GTIs [s]
			ontime6	3382.3999874592	Sum of GTIs [s]
			ontime7	3382.3999874592	Sum of GTIs [s]
			l1events	366691	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	56902	56113	60356	60559	60095	72666	grade 0 events	14478	14119	15140	15225	14495	7332
rejected events	30049	28823	33125	33481	32402	30665		25%	25%	25%	25%	24%	10%
rejected %	52%	51%	54%	55%	53%	42%	grade 1 events	118	89	113	122	72	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	5055	5744	4650	4747	5458	9406
								8%	10%	7%	7%	9%	12%
							grade 3 events	1887	1786	1968	1951	1705	3696
								3%	3%	3%	3%	2%	5%
							grade 4 events	1825	1786	1922	1842	1796	3697
								3%	3%	3%	3%	2%	5%
							grade 5 events	1664	1651	1582	1822	1715	4367
								2%	2%	2%	3%	2%	6%
							grade 6 events	4204	4438	4170	3970	4884	18860
								7%	7%	6%	6%	8%	25%
							grade 7 events	27671	26500	30811	30880	29970	25250
								48%	47%	51%	50%	49%	34%

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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	130.0274838659388	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-7.491063957587691	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	345.4418704798443	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	381574676.045136	381574675.02013			
Observation start date	2010-02-03T08:57:56	2010-02-03T08:57:55			
[s] Observation end time (MET)	381579856.395398	381579855.37039			
Observation end date	2010-02-03T10:24:16	2010-02-03T10:24:15			
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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.3823999874592

A.2 Comments

A spatial region of the original bias map for CCD = 0 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 = 0 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:
(423,1),(484,1),(484,318),(423,349)