

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59506 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 27 2012

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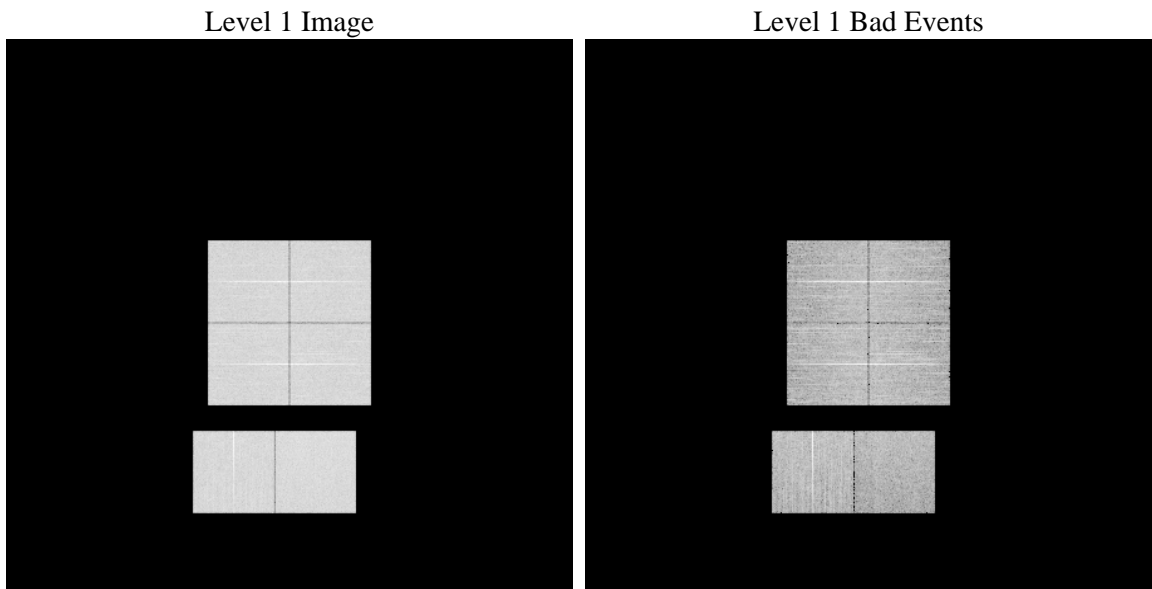
1 Front

seq_num	 	Sequence number
obs_id	59506	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	195.00657651143	Nominal RA [deg]
dec_nom	-2.027745002206	Nominal Dec [deg]
roll_nom	250.40814017282	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6748.7999748588	Sum of GTIs [s]
livetime	6663.3426059376	Livetime [s]
ontime0	6748.7999748588	Sum of GTIs [s]
ontime1	6748.7999748588	Sum of GTIs [s]
ontime2	6748.7999748588	Sum of GTIs [s]
ontime3	6748.7999748588	Sum of GTIs [s]
ontime6	6748.7999748588	Sum of GTIs [s]
ontime7	6748.7999748588	Sum of GTIs [s]
l2events	828547	Number of level 2 events

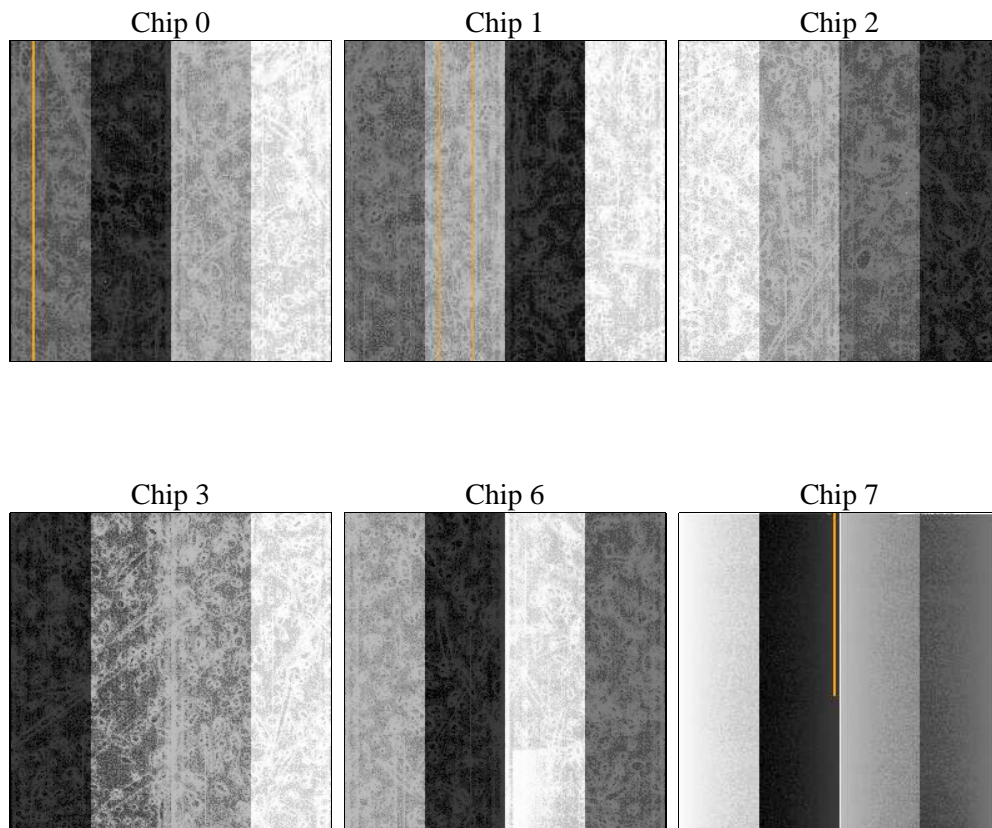
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6360	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	6748.7999748588	Sum of GTIs [s]
caldsver	4.5.5	 	ontime0	6748.7999748588	Sum of GTIs [s]
date	2012-12-27T09:42:08	Date and time of file creation	ontime1	6748.7999748588	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	6748.7999748588	Sum of GTIs [s]
			ontime3	6748.7999748588	Sum of GTIs [s]
			ontime6	6748.7999748588	Sum of GTIs [s]
			ontime7	6748.7999748588	Sum of GTIs [s]
			l1events	1226708	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	196447	197649	202346	202853	209288	218125	grade 0 events	54796	45840	58592	58335	37331	36616
rejected events	57298	58223	63230	62500	66101	48074		27%	23%	28%	28%	17%	16%
rejected %	29%	29%	31%	30%	31%	22%	grade 1 events	210	168	246	248	154	111
								0%	0%	0%	0%	0%	0%
							grade 2 events	50687	60333	47675	49426	71923	35626
								25%	30%	23%	24%	34%	16%
							grade 3 events	6034	4940	6209	6248	3854	19514
								3%	2%	3%	3%	1%	8%
							grade 4 events	5900	4993	6104	6130	3933	16836
								3%	2%	3%	3%	1%	7%
							grade 5 events	2720	2568	2764	3059	2553	6699
								1%	1%	1%	1%	1%	3%
							grade 6 events	24850	26385	23721	23352	29353	65250
								12%	13%	11%	11%	14%	29%
							grade 7 events	51250	52422	57035	56055	60187	37473
								26%	26%	28%	27%	28%	17%

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	OVERRIDE	OVERRIDE
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	195.0065858624107	195.006576511427	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.02771884358372	-2.027745002206005	Alternating exposures requested	N	N
[deg] Pointing Roll	250.4081404961493	250.4081401728208	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.78090834371673	-0.78090834371673			
[mm] SIM defocus	0.7524282194390134	0.7524282194390134			
[mm] SIM translation stage pos	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	240336232.019694	240336232.019694			
Observation start date	2005-08-13T16:11:00	2005-08-13T16:03:52			
[s] Observation end time (MET)	240345750.893511	240345750.893511			
Observation end date	2005-08-13T17:57:00	2005-08-13T18:42:30			
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)	2013.01.24
V&V Edition	1
V&V Disposition and Status	Repr+DD
V&V Charge Time	6.7487999748588

A.2 Comments

SAP: please reprocess with the replacement bias for CCD6

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The bias map for CCD_ID = 6 suffers from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the 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_ID = 6 will be recreated to remove this anomaly and the data will be reprocessed.