

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51075 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : May 3 2016

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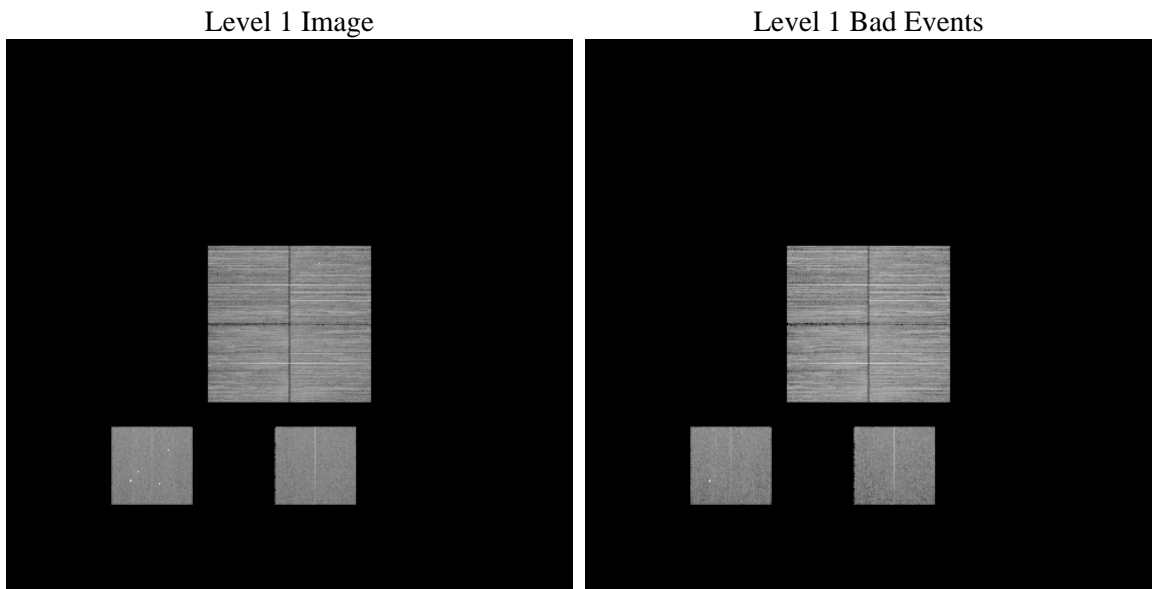
1 Front

seq_num	 	Sequence number
obs_id	51075	Observation id
title	ACIS-012357 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtycle	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	222.78421031953	Nominal RA [deg]
dec_nom	-19.67129487216	Nominal Dec [deg]
roll_nom	201.27739290718	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8223.9602377415	Sum of GTIs [s]
livetime	8119.8235013368	Livetime [s]
ontime0	8223.9191976786	Sum of GTIs [s]
ontime1	8223.8781577349	Sum of GTIs [s]
ontime2	8223.837117672	Sum of GTIs [s]
ontime3	8224.0001225471	Sum of GTIs [s]
ontime5	8223.7960777283	Sum of GTIs [s]
ontime7	8223.9602377415	Sum of GTIs [s]
l2events	177186	Number of level 2 events

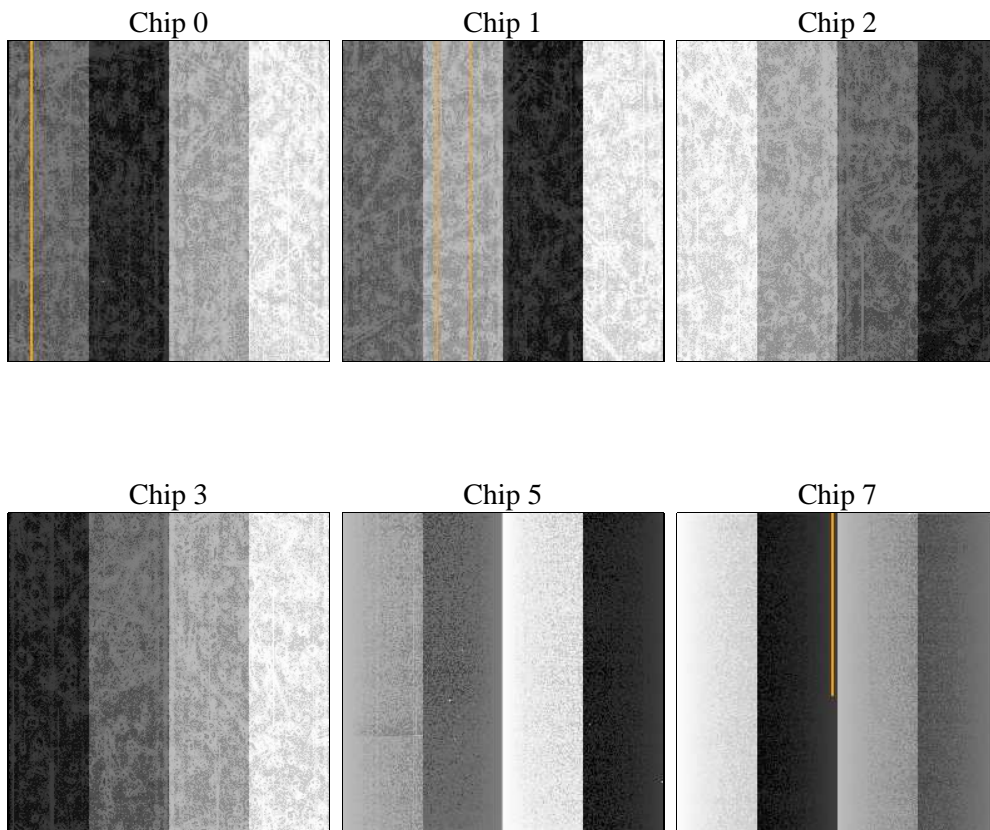
2 OBI

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	10.4.3.1	Processing system revision	ontime	8223.9602377415	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	8223.9191976786	Sum of GTIs [s]
date	2016-05-03T17:15:01	Date and time of file creation	ontime1	8223.8781577349	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8223.837117672	Sum of GTIs [s]
			ontime3	8224.0001225471	Sum of GTIs [s]
			ontime5	8223.7960777283	Sum of GTIs [s]
			ontime7	8223.9602377415	Sum of GTIs [s]
			l1events	985035	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	161557	181292	172821	185742	149539	134084	grade 0 events	9098	9366	9531	9677	9140	5255
rejected events	141716	160239	153124	165468	87206	83501		5%	5%	5%	5%	6%	3%
rejected %	87%	88%	88%	89%	58%	62%	grade 1 events	42	51	72	84	184	118
								0%	0%	0%	0%	0%	0%
							grade 2 events	4637	5102	4216	4321	20934	12685
								2%	2%	2%	2%	13%	9%
							grade 3 events	1431	1470	1398	1490	1646	3633
								0%	0%	0%	0%	1%	2%
							grade 4 events	1435	1385	1432	1489	1493	3567
								0%	0%	0%	0%	0%	2%
							grade 5 events	3089	3143	3113	3628	6436	8374
								1%	1%	1%	1%	4%	6%
							grade 6 events	3336	3830	3215	3381	29372	25648
								2%	2%	1%	1%	19%	19%
							grade 7 events	138489	156945	149844	161672	80334	74804
								85%	86%	86%	87%	53%	55%

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	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	0	222.7842103195319	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-19.67129487216003	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	201.277392907178	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673			
[mm] SIM defocus	0.7524282194390134	0.7524282194390134			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	578267487.173179	578267487.173179			
Observation start date	2016-04-28T21:51:27	2016-04-28T21:51:27			
[s] Observation end time (MET)	578277036.5778151	578277036.5778151			
Observation end date	2016-04-29T00:30:37	2016-04-29T00:30:36			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2239602377415

A.2 Comments

A spatial region of the original bias map for CCD = 1 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 = 1 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.