

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 51506 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Nov 17 2015

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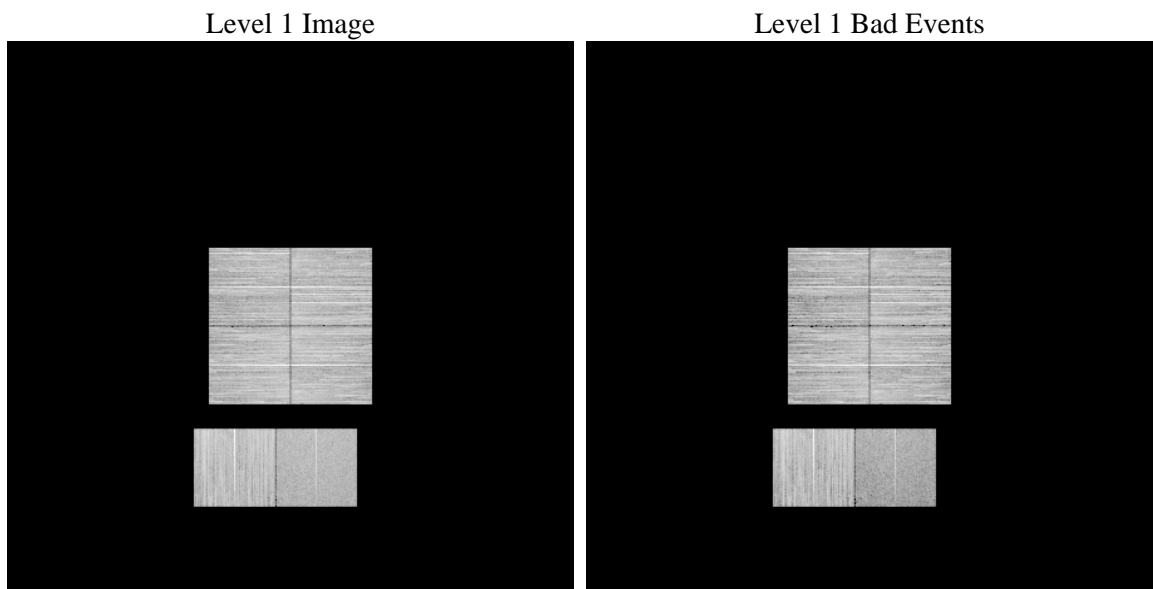
1 Front

seq_num	 	Sequence number
obs_id	51506	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	73.969105803163	Nominal RA [deg]
dec_nom	34.013367449068	Nominal Dec [deg]
roll_nom	119.58629257948	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8453.281170845	Sum of GTIs [s]
livetime	8346.240634705	Livetime [s]
ontime0	8453.2401307821	Sum of GTIs [s]
ontime1	8453.1990908384	Sum of GTIs [s]
ontime2	8453.1580507755	Sum of GTIs [s]
ontime3	8453.3222107887	Sum of GTIs [s]
ontime6	8453.1170108318	Sum of GTIs [s]
ontime7	8453.281170845	Sum of GTIs [s]
l2events	142373	Number of level 2 events

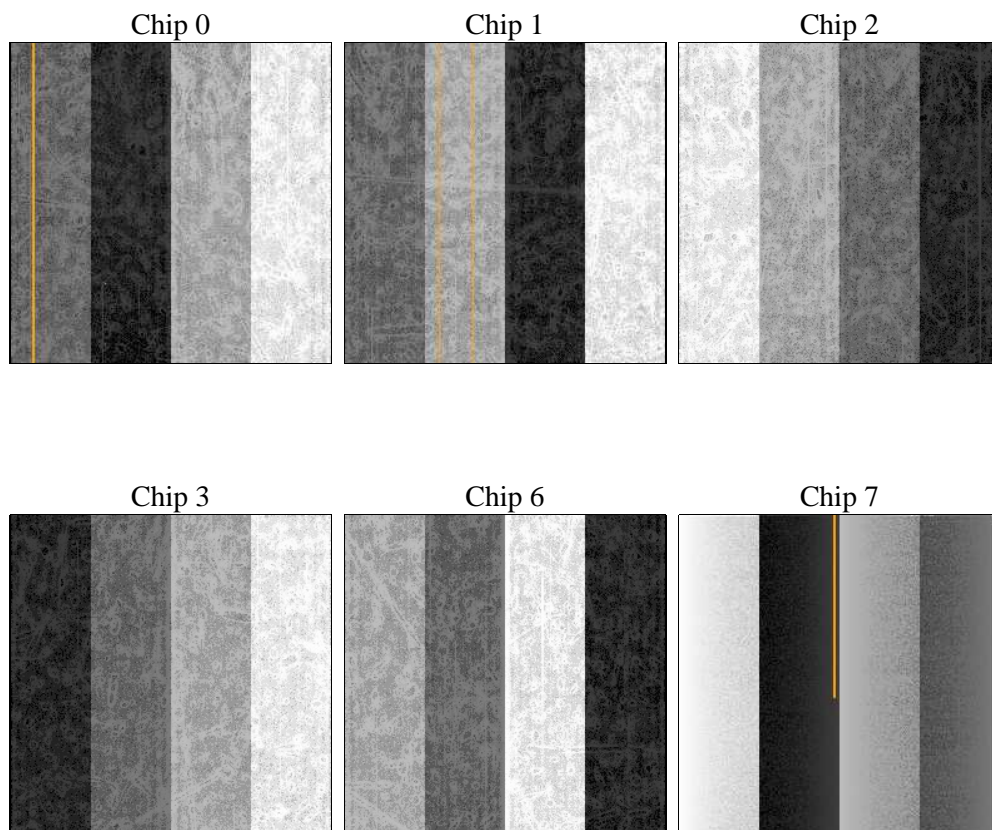
2 OBI

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	10.4.2.1	Processing system revision	ontime	8453.281170845	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	8453.2401307821	Sum of GTIs [s]
date	2015-11-17T17:05:07	Date and time of file creation	ontime1	8453.1990908384	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8453.1580507755	Sum of GTIs [s]
			ontime3	8453.3222107887	Sum of GTIs [s]
			ontime6	8453.1170108318	Sum of GTIs [s]
			ontime7	8453.281170845	Sum of GTIs [s]
			l1events	918107	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	145328	160323	159845	161366	170530	120715	grade 0 events	9411	8692	9798	10062	8471	5026
rejected events	124669	139301	139495	140314	149192	73599		6%	5%	6%	6%	4%	4%
rejected %	85%	86%	87%	86%	87%	60%	grade 1 events	59	52	62	60	42	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	4969	5774	4478	4617	6030	11789
								3%	3%	2%	2%	3%	9%
							grade 3 events	1375	1248	1423	1445	1259	3296
								0%	0%	0%	0%	0%	2%
							grade 4 events	1311	1301	1456	1438	1234	3194
								0%	0%	0%	0%	0%	2%
							grade 5 events	2799	2702	2652	3091	2732	7033
								1%	1%	1%	1%	1%	5%
							grade 6 events	3598	4012	3202	3496	4353	23828
								2%	2%	2%	2%	2%	19%
							grade 7 events	121806	136542	136774	137157	146409	66471
								83%	85%	85%	84%	85%	55%

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	73.96910580316252	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	34.01336744906767	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	119.5862925794758	[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)	563911949.371001	563911948.346			
Observation start date	2015-11-14T18:12:29	2015-11-14T18:12:28			
[s] Observation end time (MET)	563924747.521726	563924746.49673			
Observation end date	2015-11-14T21:45:48	2015-11-14T21:45:46			
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)	2015.11.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.453281170845

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.