

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 52204 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jan 9 2015

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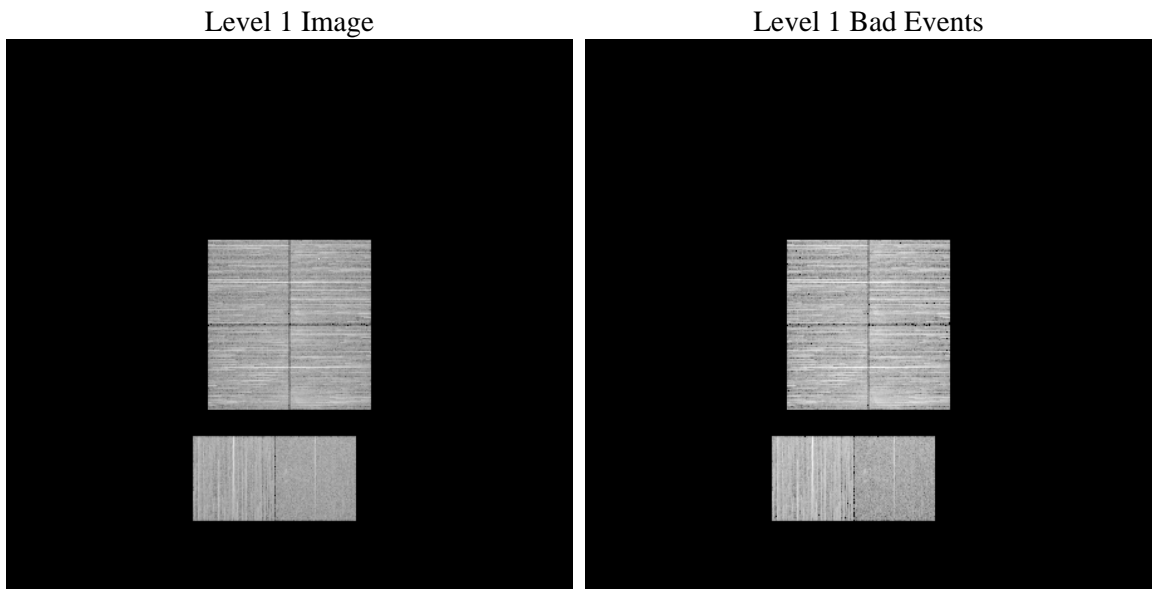
1 Front

seq_num	 	Sequence number
obs_id	52204	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	101.82544205918	Nominal RA [deg]
dec_nom	13.170075802432	Nominal Dec [deg]
roll_nom	120.94159726761	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6883.1999744177	Sum of GTIs [s]
livetime	6796.0407517762	Livetime [s]
ontime0	6883.1999744177	Sum of GTIs [s]
ontime1	6883.1999744177	Sum of GTIs [s]
ontime2	6883.1999744177	Sum of GTIs [s]
ontime3	6883.1999744177	Sum of GTIs [s]
ontime6	6883.1999744177	Sum of GTIs [s]
ontime7	6883.1999744177	Sum of GTIs [s]
l2events	129670	Number of level 2 events

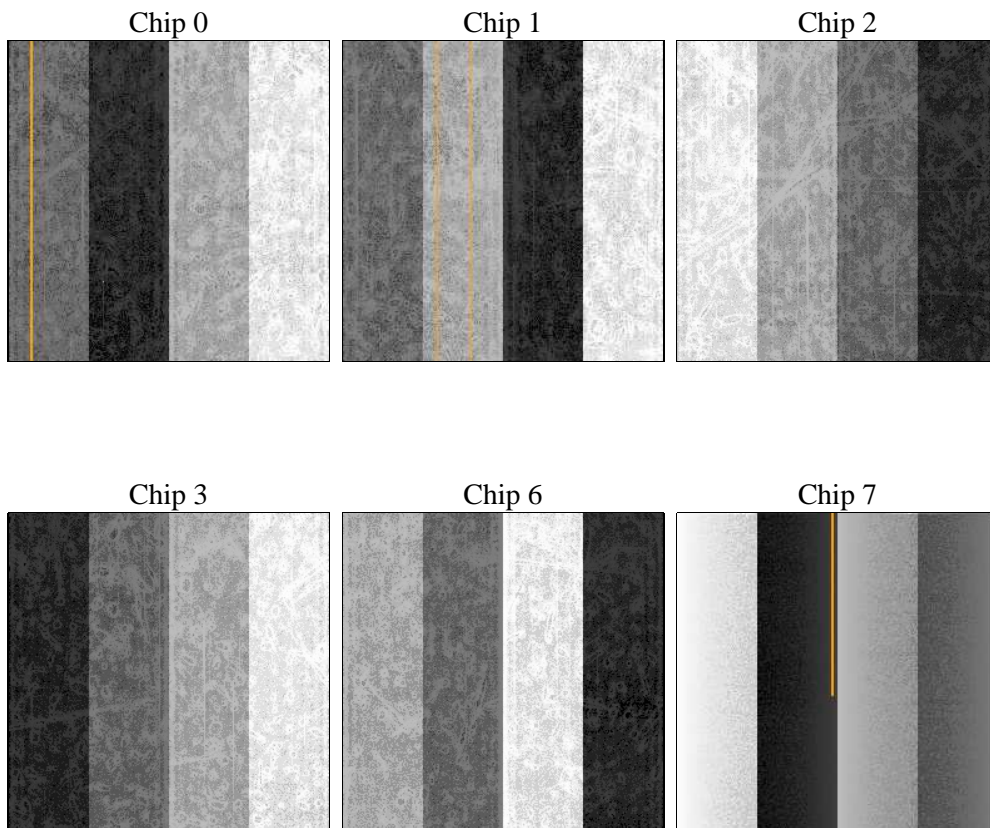
2 OBI

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	10.3.1	Processing system revision	ontime	6883.1999744177	Sum of GTIs [s]
caldsver	4.6.5	 	ontime0	6883.1999744177	Sum of GTIs [s]
date	2015-01-09T20:09:11	Date and time of file creation	ontime1	6883.1999744177	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6883.1999744177	Sum of GTIs [s]
			ontime3	6883.1999744177	Sum of GTIs [s]
			ontime6	6883.1999744177	Sum of GTIs [s]
			ontime7	6883.1999744177	Sum of GTIs [s]
			l1events	691920	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	112460	121193	119278	125649	118744	94596	grade 0 events	9959	10116	10366	10283	9964	5595
rejected events	93239	101157	99869	106317	98614	54614		8%	8%	8%	8%	8%	5%
rejected %	82%	83%	83%	84%	83%	57%	grade 1 events	54	59	59	55	48	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	4062	4407	3947	3821	4301	10036
								3%	3%	3%	3%	3%	10%
							grade 3 events	1397	1374	1391	1446	1391	3331
								1%	1%	1%	1%	1%	3%
							grade 4 events	1375	1421	1450	1427	1430	3335
								1%	1%	1%	1%	1%	3%
							grade 5 events	2233	2360	2238	2508	2546	6053
								1%	1%	1%	1%	2%	6%
							grade 6 events	3147	3422	3010	3110	3774	19147
								2%	2%	2%	2%	3%	20%
							grade 7 events	90233	98034	96817	102999	95290	47039
								80%	80%	81%	81%	80%	49%

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	0	101.8254420591819	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	13.17007580243211	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	120.9415972676074	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	536681963.101971	536681963.101971			
Observation start date	2015-01-03T14:19:23	2015-01-03T14:19:23			
[s] Observation end time (MET)	536690361.230349	536690361.230349			
Observation end date	2015-01-03T16:39:21	2015-01-03T16:39:21			
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)	2015.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8831999744177

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.