

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51261 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 18 2016

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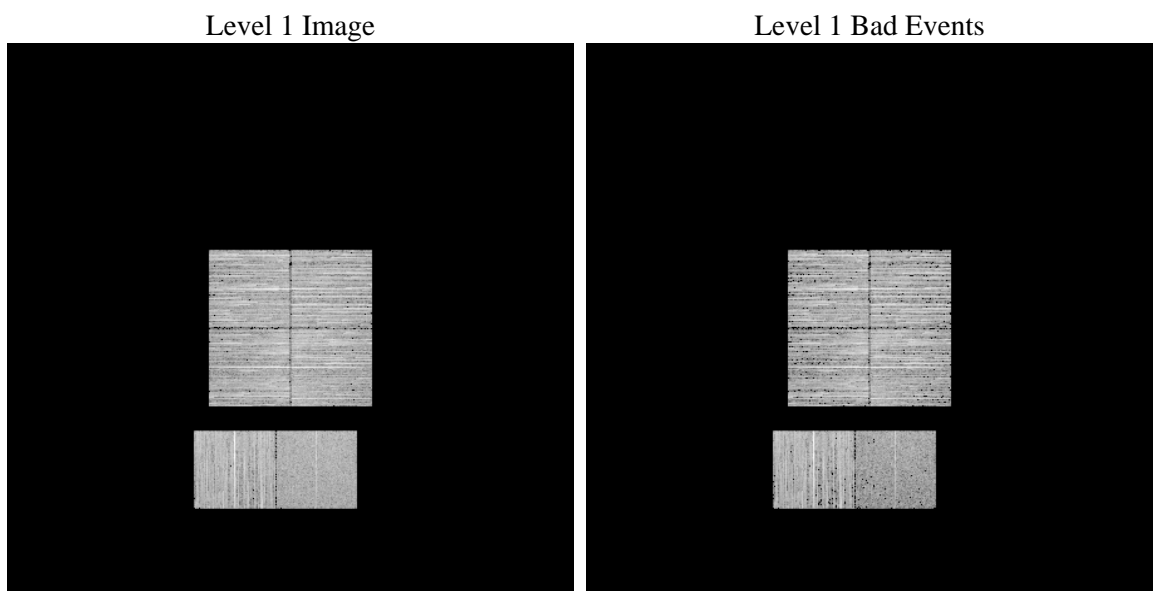
1 Front

seq_num	 	Sequence number
obs_id	51261	Observation id
title	ACIS-012367 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	170.19555864728	Nominal RA [deg]
dec_nom	3.4287917474097	Nominal Dec [deg]
roll_nom	65.3045502341	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3283.2000489235	Sum of GTIs [s]
livetime	3241.6261929983	Livetime [s]
ontime0	3283.2000489235	Sum of GTIs [s]
ontime1	3283.2000489235	Sum of GTIs [s]
ontime2	3283.2000489235	Sum of GTIs [s]
ontime3	3283.2000489235	Sum of GTIs [s]
ontime6	3283.2000489235	Sum of GTIs [s]
ontime7	3283.2000489235	Sum of GTIs [s]
l2events	58673	Number of level 2 events

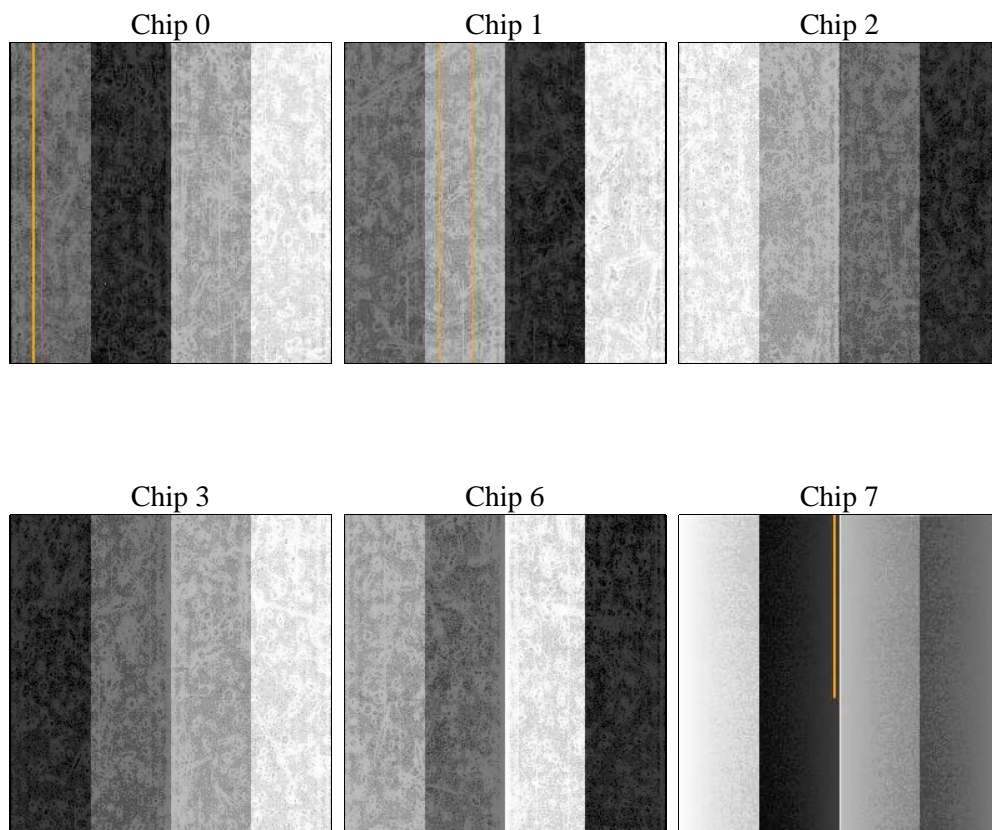
2 OBI

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	3283.2000489235	Sum of GTIs [s]
caldbver	4.7.0	 	ontime0	3283.2000489235	Sum of GTIs [s]
date	2016-02-18T16:55:40	Date and time of file creation	ontime1	3283.2000489235	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3283.2000489235	Sum of GTIs [s]
			ontime3	3283.2000489235	Sum of GTIs [s]
			ontime6	3283.2000489235	Sum of GTIs [s]
			ontime7	3283.2000489235	Sum of GTIs [s]
			l1events	382196	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	67457	68747	62105	65530	67146	51211
rejected events	59151	60336	53934	57352	58536	30363
rejected %	87%	87%	86%	87%	87%	59%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3921	3706	4037	4025	3869	2371
	5%	5%	6%	6%	5%	4%
grade 1 events	43	22	22	24	18	45
	0%	0%	0%	0%	0%	0%
grade 2 events	1812	1881	1630	1601	1950	5156
	2%	2%	2%	2%	2%	10%
grade 3 events	598	616	596	615	565	1649
	0%	0%	0%	0%	0%	3%
grade 4 events	601	607	587	606	596	1623
	0%	0%	0%	0%	0%	3%
grade 5 events	1341	1286	1152	1435	1352	3405
	1%	1%	1%	2%	2%	6%
grade 6 events	1383	1610	1329	1341	1638	10073
	2%	2%	2%	2%	2%	19%
grade 7 events	57758	59019	52752	55883	57158	26889
	85%	85%	84%	85%	85%	52%

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	170.1955586472798	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	3.428791747409668	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	65.30455023410043	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	571874100.622736	571874099.5977401			
Observation start date	2016-02-14T21:55:01	2016-02-14T21:54:59			
[s] Observation end time (MET)	571886527.723442	571886526.69844			
Observation end date	2016-02-15T01:22:08	2016-02-15T01:22:06			
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)	2016.02.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2832000489235

A.2 Comments

A spatial region of the original bias map for CCD = 3 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 = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.