

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 52115 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 3 2015

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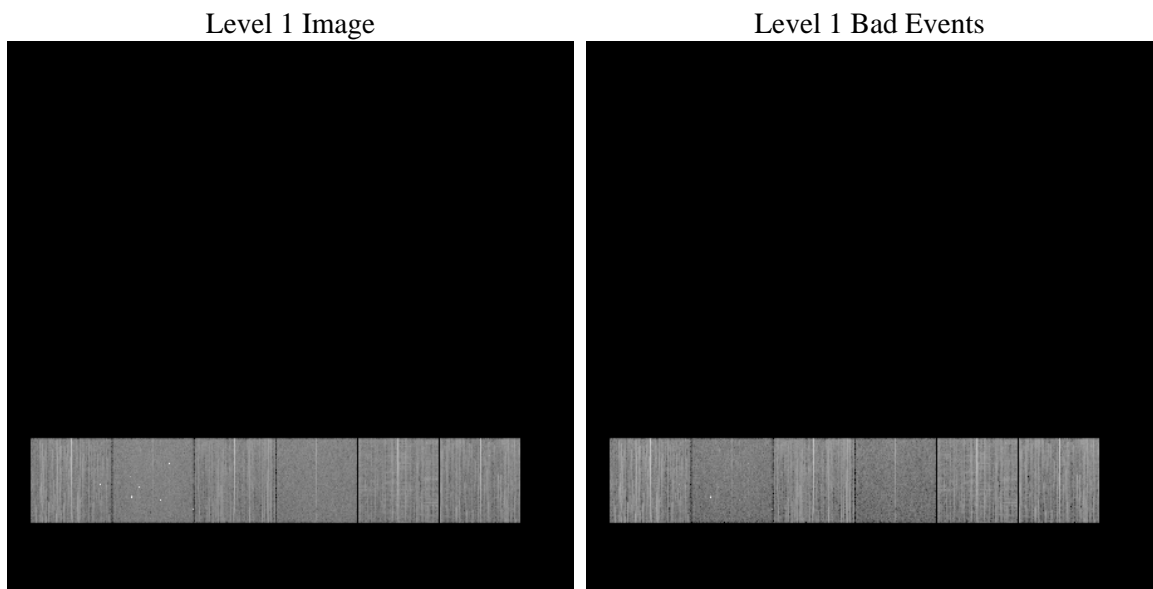
1 Front

seq_num	 	Sequence number
obs_id	52115	Observation id
title	ACIS-456789 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	125.46991159825	Nominal RA [deg]
dec_nom	-3.7828558990329	Nominal Dec [deg]
roll_nom	132.79175236473	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8101.8958871365	Sum of GTIs [s]
livetime	7999.3048030375	Livetime [s]
ontime4	8101.772767067	Sum of GTIs [s]
ontime5	8101.8548470736	Sum of GTIs [s]
ontime6	8101.8138071299	Sum of GTIs [s]
ontime7	8101.8958871365	Sum of GTIs [s]
ontime8	8101.7317271233	Sum of GTIs [s]
ontime9	8101.9369270802	Sum of GTIs [s]
l2events	174200	Number of level 2 events

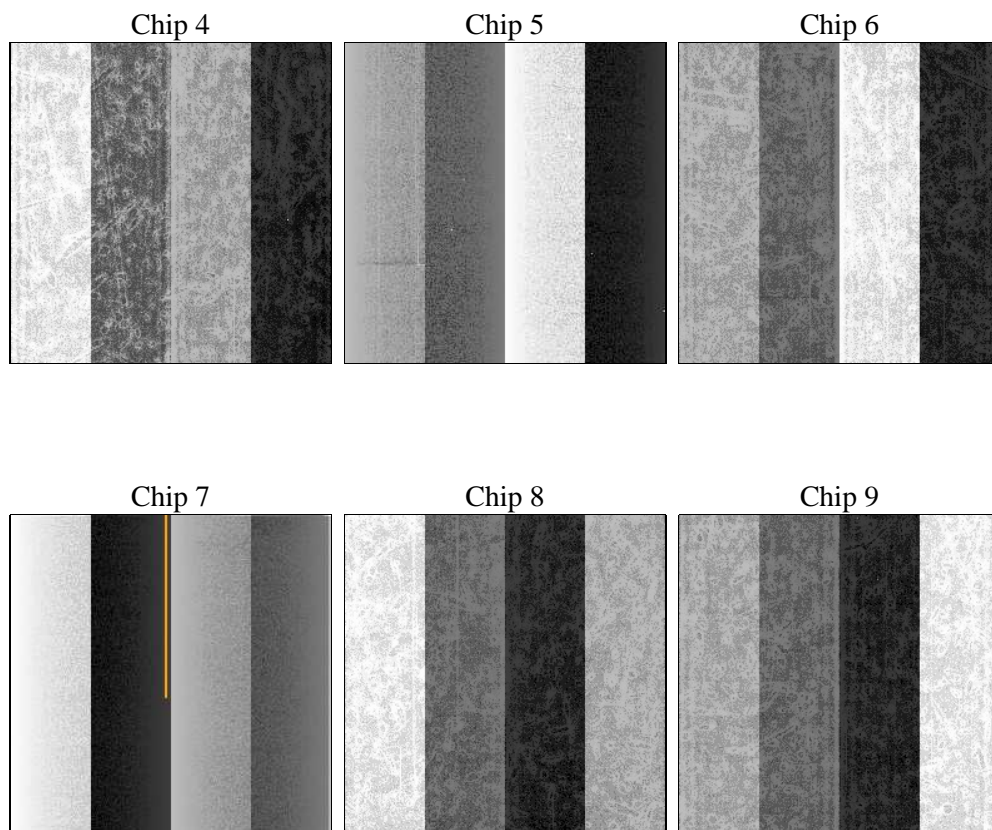
2 OBI

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	10.3.3	Processing system revision	ontime	8101.8958871365	Sum of GTIs [s]
caldsver	4.6.6	 	ontime4	8101.772767067	Sum of GTIs [s]
date	2015-02-03T17:51:29	Date and time of file creation	ontime5	8101.8548470736	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8101.8138071299	Sum of GTIs [s]
			ontime7	8101.8958871365	Sum of GTIs [s]
			ontime8	8101.7317271233	Sum of GTIs [s]
			ontime9	8101.9369270802	Sum of GTIs [s]
			l1events	813378	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	149617	127440	142122	109652	142622	141925	grade 0 events	14311	10996	10716	5734	13405	11154
rejected events	124783	71141	119455	64728	112244	119383		9%	8%	7%	5%	9%	7%
rejected %	83%	55%	84%	59%	78%	84%	grade 1 events	93	195	42	81	69	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	4527	18945	5265	11329	6724	4669
								3%	14%	3%	10%	4%	3%
							grade 3 events	1653	1544	1472	3372	2384	1624
								1%	1%	1%	3%	1%	1%
							grade 4 events	1644	1509	1427	3364	2190	1557
								1%	1%	1%	3%	1%	1%
							grade 5 events	2931	5486	2777	6724	3693	3282
								1%	4%	1%	6%	2%	2%
							grade 6 events	3179	24432	4234	22014	6304	3976
								2%	19%	2%	20%	4%	2%
							grade 7 events	121279	64333	116189	57034	107853	115599
								81%	50%	81%	52%	75%	81%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	125.4699115982496
[deg] Pointing Dec	0	-3.782855899032943
[deg] Pointing Roll	0.0	132.7917523647335
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	539194320.242247	539194320.242247
Observation start date	2015-02-01T16:12:00	2015-02-01T16:12:00
[s] Observation end time (MET)	539203658.9683681	539203658.9683681
Observation end date	2015-02-01T18:47:39	2015-02-01T18:47:38
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1018958871365

A.2 Comments

A spatial region of the original bias map for CCD = 4 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 = 4 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.