

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62363 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Nov 19 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

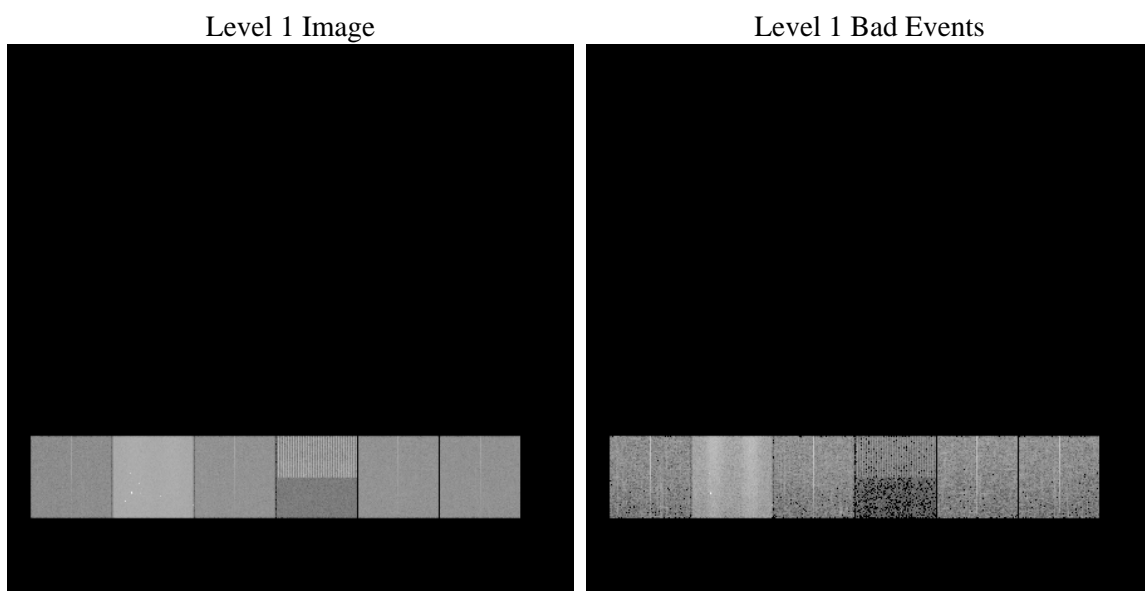
1 Front

seq_num	 	Sequence number
obs_id	62363	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
dec_targ	0.0	Observer's specified target Dec
ra_nom	112.1445303183	Nominal RA
dec_nom	80.027364240999	Nominal Dec
roll_nom	78.496878304178	Nominal Roll
revision	3	Processing version of data
ontime	815.53325950354	Sum of GTIs [s]
livetime	805.20648631654	Livetime [s]
ontime4	1564.2977854386	Sum of GTIs [s]
ontime5	4701.5613673106	Sum of GTIs [s]
ontime6	1817.2219361439	Sum of GTIs [s]
ontime7	815.53325950354	Sum of GTIs [s]
ontime8	1810.6577761322	Sum of GTIs [s]
ontime9	1807.457756184	Sum of GTIs [s]
l2events	1097965	Number of level 2 events

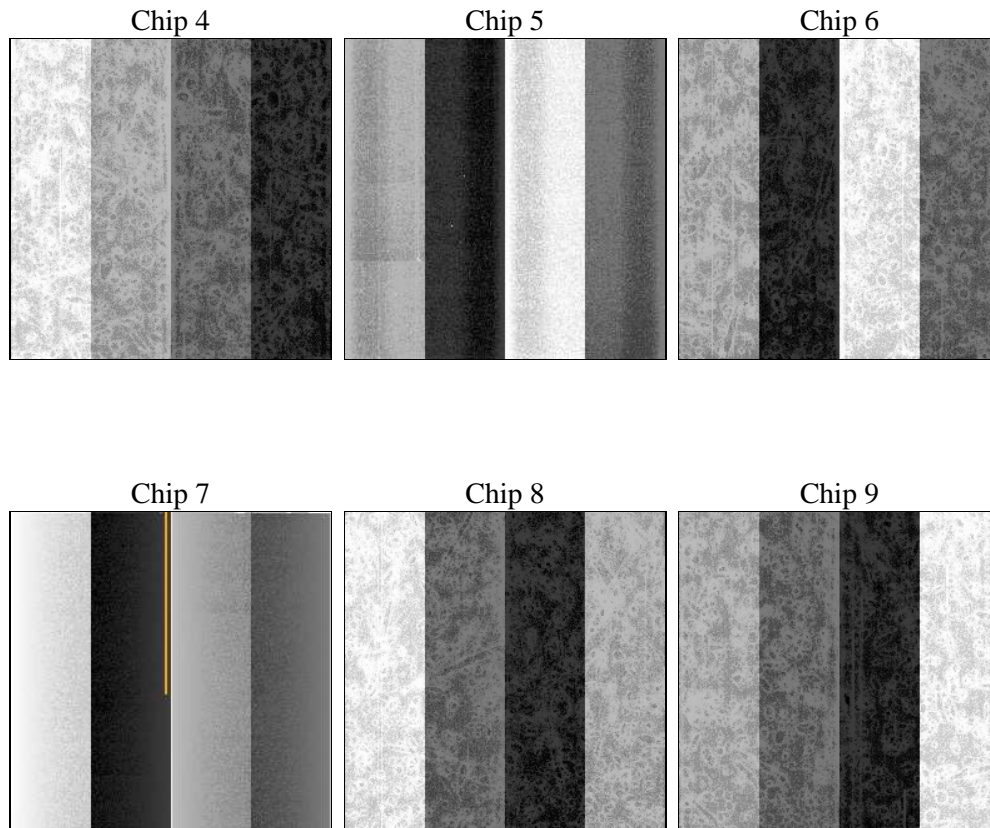
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	<table><tr><td>sched_exp_time</td><td>0.0</td><td>Scheduled observation exposure time</td></tr><tr><td>ontime</td><td>815.53325950354</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime4</td><td>1564.2977854386</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime5</td><td>4701.5613673106</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime6</td><td>1817.2219361439</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime7</td><td>815.53325950354</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime8</td><td>1810.6577761322</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime9</td><td>1807.457756184</td><td>Sum of GTIs [s]</td></tr><tr><td>l1events</td><td>1446633</td><td>Number of level 1 events</td></tr></table>	sched_exp_time	0.0	Scheduled observation exposure time	ontime	815.53325950354	Sum of GTIs [s]	ontime4	1564.2977854386	Sum of GTIs [s]	ontime5	4701.5613673106	Sum of GTIs [s]	ontime6	1817.2219361439	Sum of GTIs [s]	ontime7	815.53325950354	Sum of GTIs [s]	ontime8	1810.6577761322	Sum of GTIs [s]	ontime9	1807.457756184	Sum of GTIs [s]	l1events	1446633	Number of level 1 events
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ontime9	1807.457756184	Sum of GTIs [s]																												
l1events	1446633	Number of level 1 events																												
ascdsver	8.1.1	ASCDS version number																												
caldsver	4.1.4	 																												
date	2009-11-19T23:21:59	Date and time of file creation																												
revision	3	Processing version of data																												

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	164196	480253	202028	203719	202296	194141
rejected events	29542	82813	31796	15852	31404	29448
rejected %	17%	17%	15%	7%	15%	15%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	31977	43644	46964	129351	60099	51230
	19%	9%	23%	63%	29%	26%
grade 1 events	145	250	199	253	272	238
	0%	0%	0%	0%	0%	0%
grade 2 events	71950	155086	80905	22552	68254	72705
	43%	32%	40%	11%	33%	37%
grade 3 events	3284	20991	4839	6815	6338	5322
	2%	4%	2%	3%	3%	2%
grade 4 events	3222	17862	4781	5947	6362	5298
	1%	3%	2%	2%	3%	2%
grade 5 events	1385	8041	1822	1488	1919	1708
	0%	1%	0%	0%	0%	0%
grade 6 events	24755	162828	34255	29802	30712	31328
	15%	33%	16%	14%	15%	16%
grade 7 events	27478	71551	28263	7511	28340	26312
	16%	14%	13%	3%	14%	13%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	112.144530318301	Alternating exposures requested	N	N
Pointing Dec	0	80.02736424099922	Primary exposure time	3.2	3.2
Pointing Roll	0.0	78.49687830417794			
SIM focus pos (mm)	-0.684267	-1.041718744158295			
SIM defocus (mm)	0	0.4916178952460017			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	55547994.107073	55547993.338563			
Observation start date	1999-10-05T21:59:54	1999-10-05T21:59:53			
Observation end time	55557914.057428	55557913.28892			
Observation end date	1999-10-06T00:45:14	1999-10-06T00:45:13			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.81553325950354

A.2 Comments

The front-end processor designated FEP0 suffered from a rare problem. As a result, the top half of the bias-map for Chip 7 was corrupted for part of the observation and many invalid events were telemetered for this region. The standard pipeline processing tools identify the problem and remove the spurious events from the Level 2 event file during the interval in question.

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This observation was acquired with the focal plane temperature raised from -120C to -110C, for attempted recalibration of ACIS for the 1999-09-16 through 2000-01-28 period. This reprocessing of the data applies no CTI correction because none is available for that temperature.