

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62221 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Dec 2 2009

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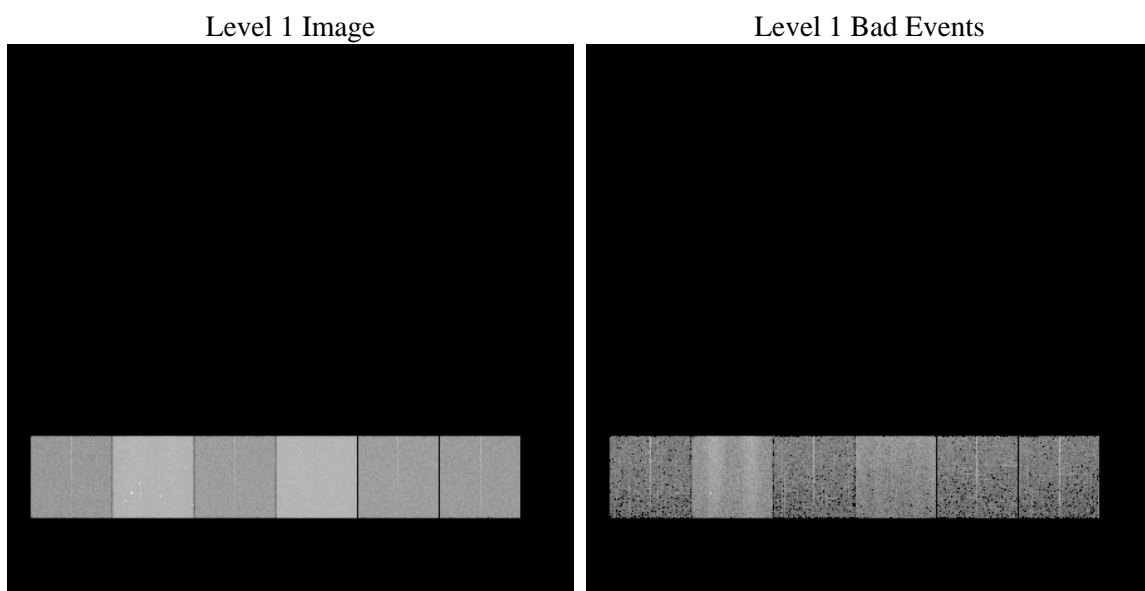
1 Front

seq_num	 	Sequence number
obs_id	62221	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	213.29618407099	Nominal RA
dec_nom	-65.323698734332	Nominal Dec
roll_nom	86.066372212366	Nominal Roll
revision	3	Processing version of data
ontime	2863.4803845584	Sum of GTIs [s]
livetime	2827.2212717483	Livetime [s]
ontime4	1084.4020619765	Sum of GTIs [s]
ontime5	3028.7698339298	Sum of GTIs [s]
ontime6	1210.5572035685	Sum of GTIs [s]
ontime7	2863.4803845584	Sum of GTIs [s]
ontime8	1236.7719523385	Sum of GTIs [s]
ontime9	1174.987082012	Sum of GTIs [s]
l2events	881689	Number of level 2 events

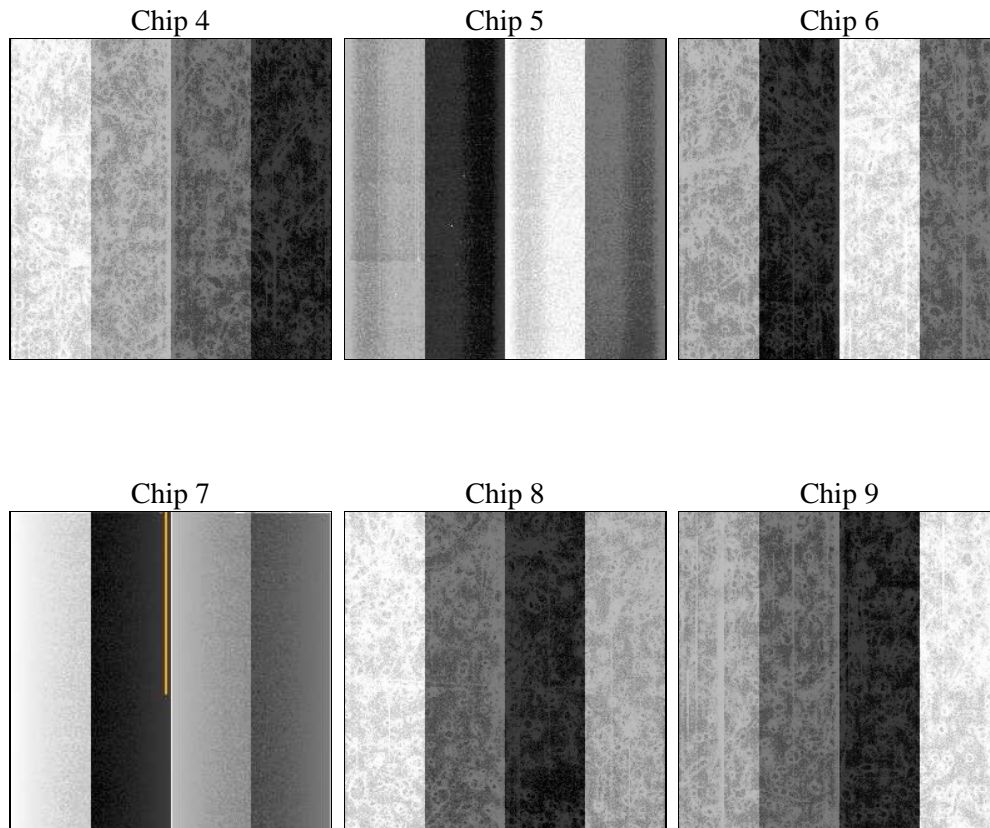
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.2	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	 		Scheduled observation exposure time
date	2009-12-02T21:04:39	Date and time of file creation	ontime	2863.4803845584
revision	3	Processing version of data	ontime4	1084.4020619765
			ontime5	3028.7698339298
			ontime6	1210.5572035685
			ontime7	2863.4803845584
			ontime8	1236.7719523385
			ontime9	1174.987082012
			l1events	1062036
				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	107246	286850	125834	293358	130696	118052	grade 0 events	20248	26187	29990	47397	39618	30888
rejected events	19405	52340	19848	33292	20217	18828		18%	9%	23%	16%	30%	26%
rejected %	18%	18%	15%	11%	15%	15%	grade 1 events	86	151	126	135	147	128
								0%	0%	0%	0%	0%	0%
							grade 2 events	48652	91993	50423	74160	44791	44463
								45%	32%	40%	25%	34%	37%
							grade 3 events	2056	12059	3062	22953	4164	3235
								1%	4%	2%	7%	3%	2%
							grade 4 events	1967	10317	3060	20252	4157	3270
								1%	3%	2%	6%	3%	2%
							grade 5 events	928	4894	989	4104	1139	1068
								0%	1%	0%	1%	0%	0%
							grade 6 events	16740	98452	21176	100028	20009	18967
								15%	34%	16%	34%	15%	16%
							grade 7 events	16569	42797	17008	24329	16671	16033
								15%	14%	13%	8%	12%	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	213.2961840709868	Alternating exposures requested	N	N
Pointing Dec	0	-65.3236987343317	Primary exposure time	3.2	3.2
Pointing Roll	0.0	86.06637221236596			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	64461548.179258	64461547.410823			
Observation start date	2000-01-17T01:59:08	2000-01-17T01:59:07			
Observation end time	64468848.229523	64468847.461089			
Observation end date	2000-01-17T04:00:48	2000-01-17T04:00:47			
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)	2010.08.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8634803845584

A.2 Comments

The focal plane temperature is approximately -110C during this observation. The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front- and back-illuminated chips are affected. However, a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.