

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62313 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

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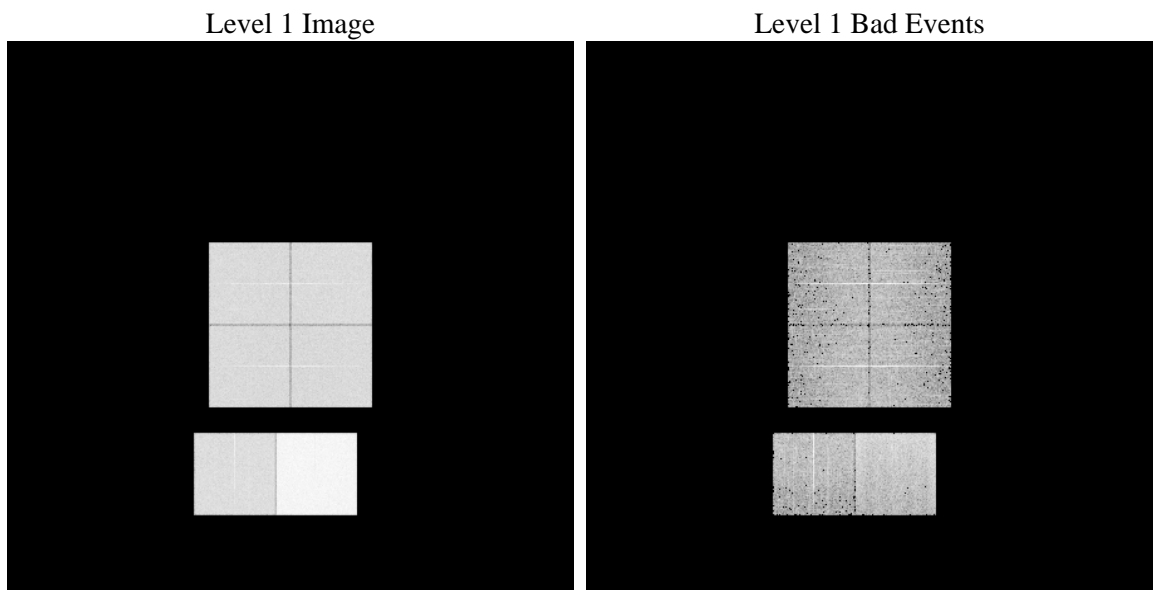
1 Front

seq_num	 	Sequence number
obs_id	62313	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
dec_targ	0.0	Observer's specified target Dec
ra_nom	117.29703555189	Nominal RA
dec_nom	-37.171128719403	Nominal Dec
roll_nom	62.703721939632	Nominal Roll
revision	4	Processing version of data
ontime	4874.4692960456	Sum of GTIs [s]
livetime	4812.745830766	Livetime [s]
ontime0	1944.5516787693	Sum of GTIs [s]
ontime1	2002.9613576606	Sum of GTIs [s]
ontime2	1886.1309285164	Sum of GTIs [s]
ontime3	1860.3557170406	Sum of GTIs [s]
ontime6	2103.2394193485	Sum of GTIs [s]
ontime7	4874.4692960456	Sum of GTIs [s]
l2events	1318695	Number of level 2 events

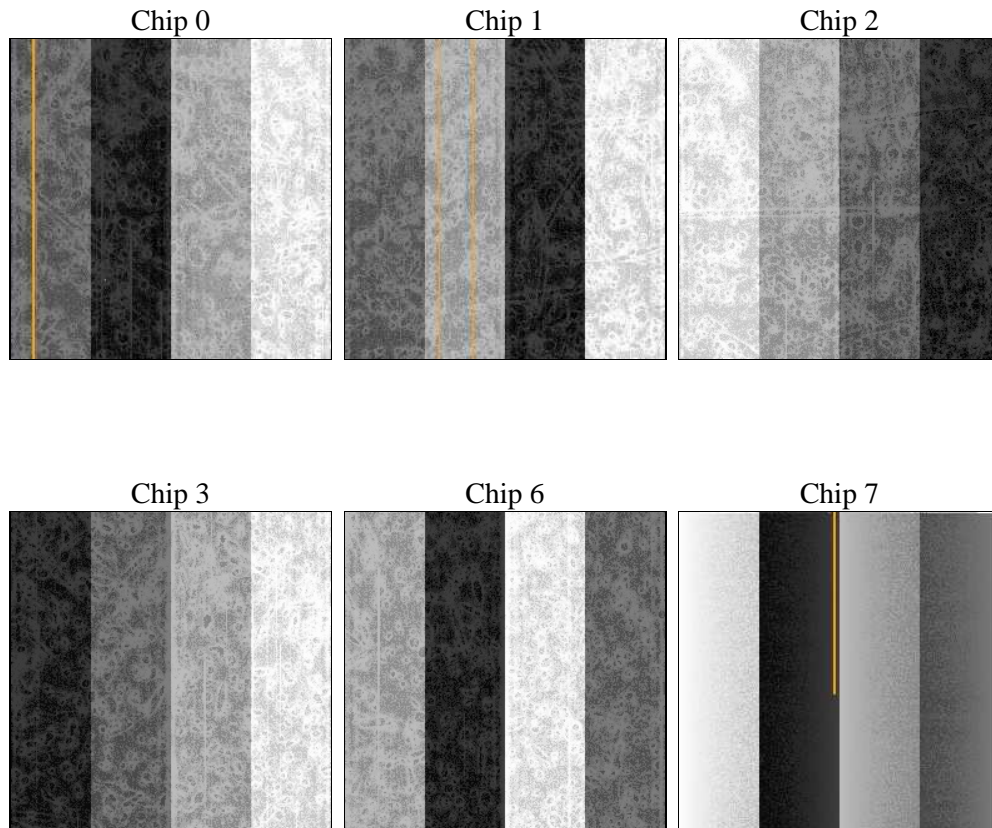
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.1	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	 		Scheduled observation exposure time
date	2009-11-21T14:32:57	Date and time of file creation	ontime	4874.4692960456
revision	3	Processing version of data	ontime0	1944.5516787693
			ontime1	2002.9613576606
			ontime2	1886.1309285164
			ontime3	1860.3557170406
			ontime6	2103.2394193485
			ontime7	4874.4692960456
			l1events	1517947
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				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	197014	203214	193366	191873	221706	510774	grade 0 events	62815	64688	53540	54817	52524	84775
rejected events	25479	26764	27141	27043	31127	48056		31%	31%	27%	28%	23%	16%
rejected %	12%	13%	14%	14%	14%	9%	grade 1 events	278	276	248	246	187	206
								0%	0%	0%	0%	0%	0%
							grade 2 events	64882	66832	71718	69713	89549	129871
								32%	32%	37%	36%	40%	25%
							grade 3 events	6815	7056	5515	5707	5472	40017
								3%	3%	2%	2%	2%	7%
							grade 4 events	6685	7014	5639	5755	5390	36233
								3%	3%	2%	2%	2%	7%
							grade 5 events	1677	1772	1650	1673	1746	6995
								0%	0%	0%	0%	0%	1%
							grade 6 events	30338	30860	29813	28838	37644	171822
								15%	15%	15%	15%	16%	33%
							grade 7 events	23524	24716	25243	25124	29194	40855
								11%	12%	13%	13%	13%	7%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	117.2970355518913	Alternating exposures requested	N	N
Pointing Dec	0	-37.1711287194033	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	62.70372193963206			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	58929674.229	58929673.460506			
Observation start date	1999-11-14T01:21:14	1999-11-14T01:21:13			
Observation end time	58974626.631	58974625.862131			
Observation end date	1999-11-14T13:50:27	1999-11-14T13:50:25			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8744692960456

A.2 Comments

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The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

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.