

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1306 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 17 2009

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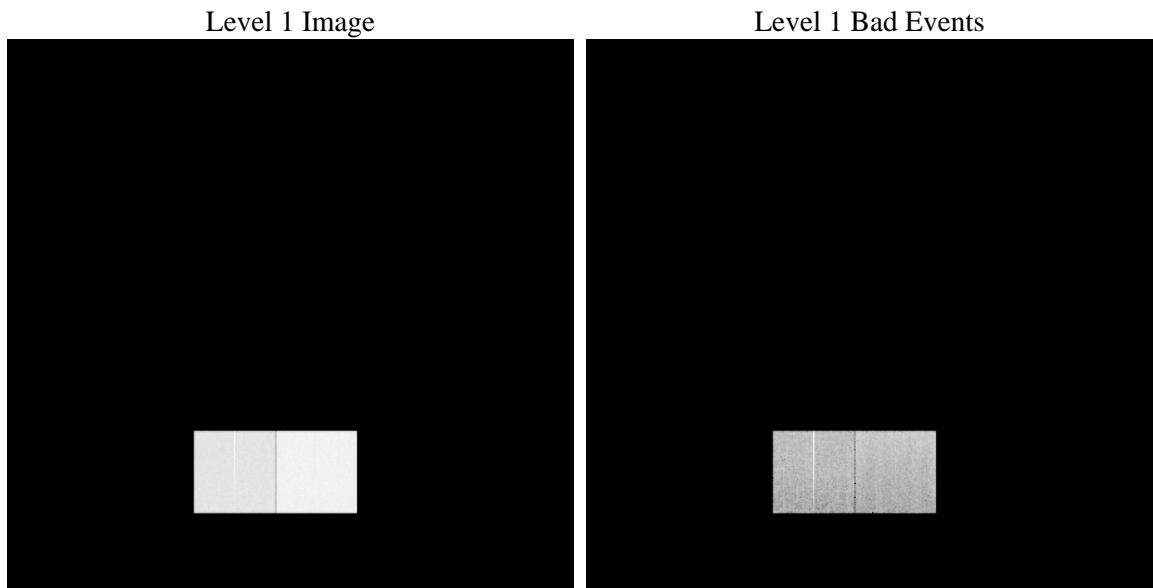
1 Front

seq_num	 	Sequence number
obs_id	1306	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	119.99427452461	Nominal RA
dec_nom	-66.595007105649	Nominal Dec
roll_nom	121.36583403009	Nominal Roll
revision	4	Processing version of data
ontime	8043.8944469914	Sum of GTIs [s]
livetime	7942.0378120518	Livetime [s]
ontime4	4498.5385449827	Sum of GTIs [s]
ontime5	8043.8534069881	Sum of GTIs [s]
ontime6	5133.7701448053	Sum of GTIs [s]
ontime7	8043.8944469914	Sum of GTIs [s]
ontime8	5162.9389561117	Sum of GTIs [s]
ontime9	5023.5776979178	Sum of GTIs [s]
l2events	1274057	Number of level 2 events

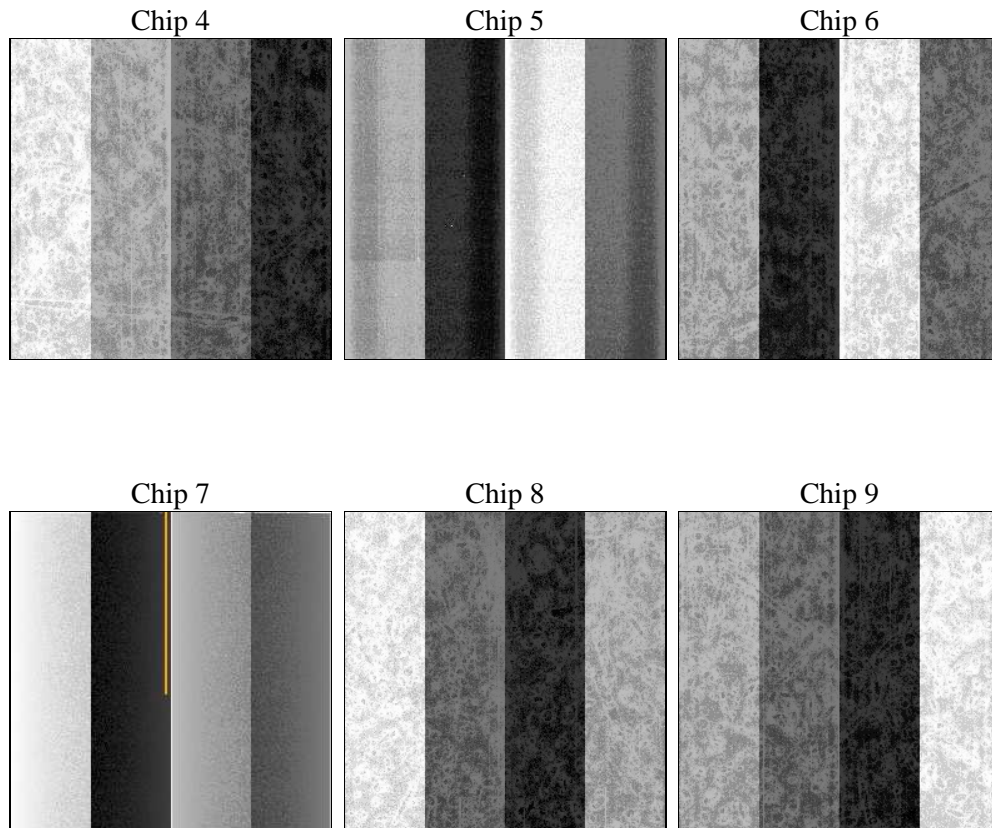
2 OBI

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
caldbver	4.1.4	
date	2009-11-17T11:26:18	Date and time of file creation
revision	4	Processing version of data

sched_exp_time	0	Scheduled observation exposure time
ontime	8043.8944469914	Sum of GTIs [s]
ontime4	4498.5385449827	Sum of GTIs [s]
ontime5	8043.8534069881	Sum of GTIs [s]
ontime6	5133.7701448053	Sum of GTIs [s]
ontime7	8043.8944469914	Sum of GTIs [s]
ontime8	5162.9389561117	Sum of GTIs [s]
ontime9	5023.5776979178	Sum of GTIs [s]
l1events	1462192	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	567892	894300	0	0
rejected events	0	0	85370	89787	0	0
rejected %	0%	0%	15%	10%	0%	0%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	133388	143344	0	0
	0%	0%	23%	16%	0%	0%
grade 1 events	0	0	587	367	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	226366	225686	0	0
	0%	0%	39%	25%	0%	0%
grade 3 events	0	0	13735	69164	0	0
	0%	0%	2%	7%	0%	0%
grade 4 events	0	0	13856	62093	0	0
	0%	0%	2%	6%	0%	0%
grade 5 events	0	0	4858	12958	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	95177	304226	0	0
	0%	0%	16%	34%	0%	0%
grade 7 events	0	0	79925	76462	0	0
	0%	0%	14%	8%	0%	0%

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	119.9942745246085	Alternating exposures requested	N	N
Pointing Dec	0	-66.59500710564906	Primary exposure time	0	3.2
Pointing Roll	121.357876	121.3658340300856			
SIM focus pos (mm)	-0.684267	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	54177009.402	54177008.633902			
Observation start date	1999-09-20T01:10:09	1999-09-20T01:10:08			
Observation end time	54189245.853	54189245.084341			
Observation end date	1999-09-20T04:34:06	1999-09-20T04:34:05			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Glenn Allen
V&V Date (YYYY-MM-DD)	2009.11.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.04389444

A.2 Comments

Joy,

Yes. A window mask was used to disable ACIS-S0, -S1, -S4, and -S5. Therefore, only events for ACIS-S2 and -S3 were telemetered although all 6 of the ACIS-S CCDs are specified as 'active.'

Glenn

GLENN,

Is this a correct comment?

'Although 6 CCD chips were turned on for this observation, a spatial exclusion window was specified that only allowed events from chips 6 and 7 to be telemetered.'

Joy

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Engineering data, so no fids / guide stars present.

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Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for approximately the [first 8 ksec] of this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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.

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(NOTE: Does charge time matter for a non-science observation?)

Charge time for this observation remains at original value of 9 ksec, although with the current processing the charge time would have been 8.043 ksec.

