V&V Reference Report
L2 ASCDS Version : 8.1.2

Observation 62206 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 5 2009

Contents

1 Front

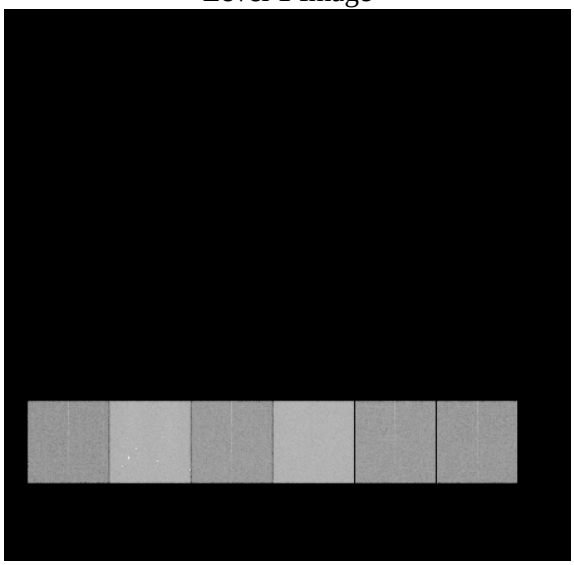
seq_num		Sequence number
obs_id	62206	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	201.6939409138	Nominal RA
dec_nom	-47.470521348599	Nominal Dec
roll_nom	66.068480848465	Nominal Roll
revision	3	Processing version of data
ontime	2930.3931729719	Sum of GTIs [s]
livetime	2893.2867701448	Livetime [s]
ontime4	1124.4807419106	Sum of GTIs [s]
ontime5	3118.3702214584	Sum of GTIs [s]
ontime6	1267.0453225449	Sum of GTIs [s]
ontime7	2930.3931729719	Sum of GTIs [s]
ontime8	1267.1274823323	Sum of GTIs [s]
ontime9	1205.3424723521	Sum of GTIs [s]
l2events	902812	Number of level 2 events

2 OBI

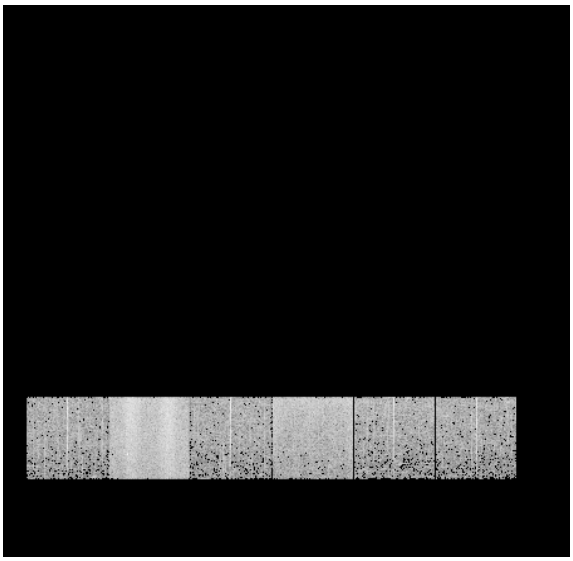
2.1 OBI

2.1.1 Images

Level 1 Image

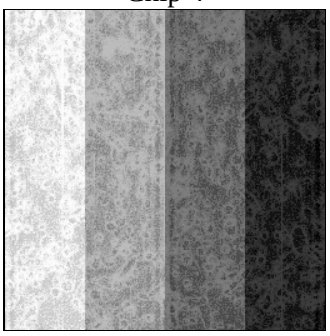


Level 1 Bad Events

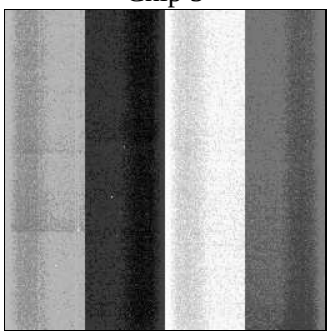


2.1.2 Bias

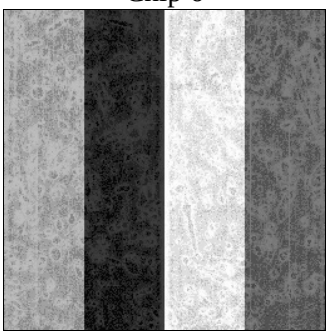
Chip 4



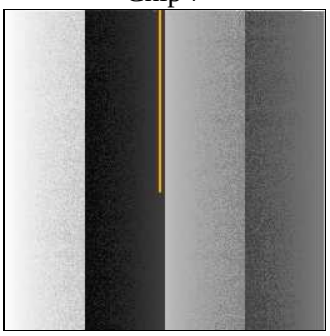
Chip 5



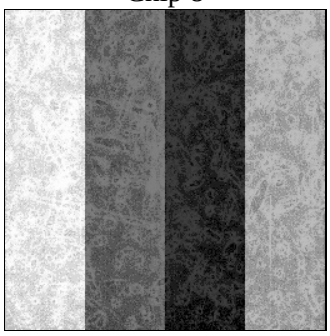
Chip 6



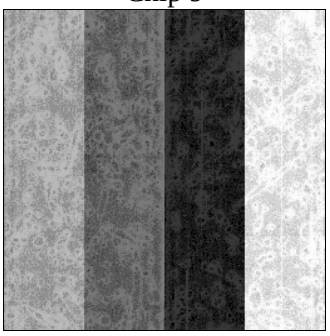
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.1.2	ASCDS version number
caldbver	4.1.4	
date	2009-12-05T16:49:08	Date and time of file creation
revision	3	Processing version of data

sched_exp_time	0.0	Scheduled observation exposure time
ontime	2930.3931729719	Sum of GTIs [s]
ontime4	1124.4807419106	Sum of GTIs [s]
ontime5	3118.3702214584	Sum of GTIs [s]
ontime6	1267.0453225449	Sum of GTIs [s]
ontime7	2930.3931729719	Sum of GTIs [s]
ontime8	1267.1274823323	Sum of GTIs [s]
ontime9	1205.3424723521	Sum of GTIs [s]
l1events	1060018	Number of level 1 events

2.1.4 Events

	ccd 4	**ccd 5**	**ccd 6**	**ccd 7**	**ccd 8**	**ccd 9**
level 1 events	106491	286644	128048	291867	129156	117812
rejected events	17533	46047	18054	27676	17900	16803
rejected %	16%	16%	14%	9%	13%	14%

	ccd 4	**ccd 5**	**ccd 6**	**ccd 7**	**ccd 8**	**ccd 9**
grade 0 events	19823	27746	30687	48565	38498	30278
	18%	9%	23%	16%	29%	25%
grade 1 events	88	156	121	90	154	117
	0%	0%	0%	0%	0%	0%
grade 2 events	48603	93394	51585	73932	44489	45303
	45%	32%	40%	25%	34%	38%
grade 3 events	2002	12774	3232	22826	4168	3146
	1%	4%	2%	7%	3%	2%
grade 4 events	2014	10902	3179	20739	4161	3241
	1%	3%	2%	7%	3%	2%
grade 5 events	833	4595	1028	3939	1088	1041
	0%	1%	0%	1%	0%	0%
grade 6 events	16516	96042	21311	98423	19940	19041
	15%	33%	16%	33%	15%	16%
grade 7 events	16612	41035	16905	23353	16658	15645
	15%	14%	13%	8%	12%	13%

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
Pointing RA	0	201.6939409138036
Pointing Dec	0	-47.47052134859857
Pointing Roll	0.0	66.06848084846528
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	65101740.653	65101739.884087
Observation start date	2000-01-24T11:49:01	2000-01-24T11:48:59
Observation end time	65147361.354	65147360.585746
Observation end date	2000-01-25T00:29:21	2000-01-25T00:29:20
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	0.000000	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9303931729719

A.2 Comments

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Focal plane temperature is approximately -110 C degrees during this
observation. ACIS has not been calibrated at this temperature, because
the focal plan temperature of -119.7 C degrees became the standard
shortly
after the start of the mission. Both front and back illuminated chips
are affected.
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.
This reprocessing
of the data applies no CTI correction because none is available
for this temperature.
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