V&V Reference Report
L2 ASCDS Version : 10.4.3.1

Observation 51136 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 2 2016

Contents

1 Front

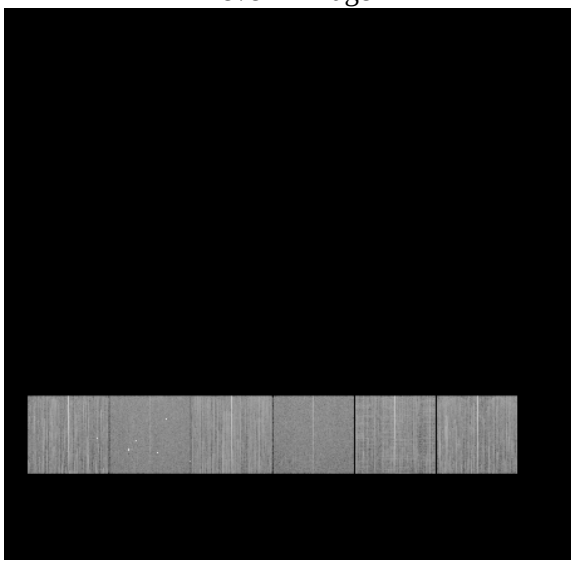
seq_num		Sequence number
obs_id	51136	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	191.58666291939	Nominal RA [deg]
dec_nom	-13.325361967976	Nominal Dec [deg]
roll_nom	40.746294142277	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8129.840736866	Sum of GTIs [s]
livetime	8026.8957982534	Livetime [s]
ontime4	8129.7176167965	Sum of GTIs [s]
ontime5	8129.7996968031	Sum of GTIs [s]
ontime6	8129.7586568594	Sum of GTIs [s]
ontime7	8129.840736866	Sum of GTIs [s]
ontime8	8129.6765768528	Sum of GTIs [s]
ontime9	8129.8817768097	Sum of GTIs [s]
l2events	183487	Number of level 2 events

2 OBI

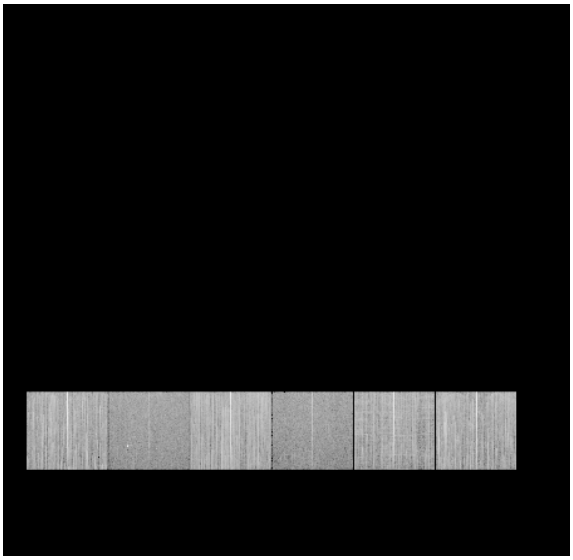
2.1 OBI

2.1.1 Images

Level 1 Image

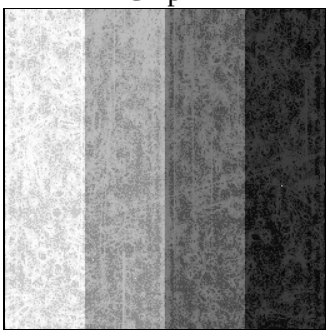


Level 1 Bad Events

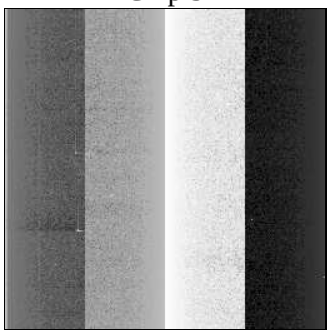


2.1.2 Bias

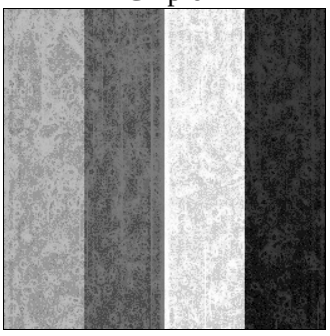
Chip 4



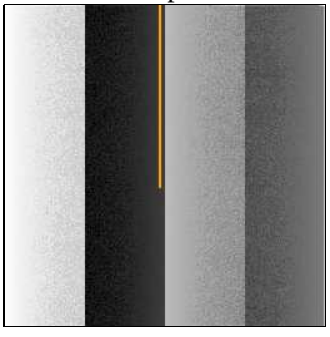
Chip 5



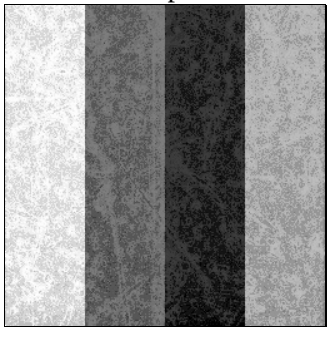
Chip 6



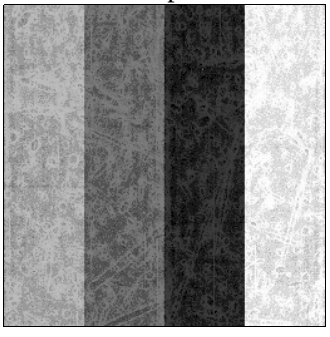
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	2	Obi number
ascdsver	10.4.3.1	Processing system revision
caldbver	4.7.1	
date	2016-04-02T21:32:24	Date and time of file creation
revision	1	Processing version of data

sched_exp_time	0.0	[s] Scheduled observation exposure time
ontime	8129.840736866	Sum of GTIs [s]
ontime4	8129.7176167965	Sum of GTIs [s]
ontime5	8129.7996968031	Sum of GTIs [s]
ontime6	8129.7586568594	Sum of GTIs [s]
ontime7	8129.840736866	Sum of GTIs [s]
ontime8	8129.6765768528	Sum of GTIs [s]
ontime9	8129.8817768097	Sum of GTIs [s]
l1events	1004960	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	173918	150712	195375	134218	172778	177959
rejected events	152094	87190	174371	82187	141035	157281
rejected %	87%	57%	89%	61%	81%	88%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	11478	8083	9782	5799	12800	9762
	6%	5%	5%	4%	7%	5%
grade 1 events	115	183	59	110	90	75
	0%	0%	0%	0%	0%	0%
grade 2 events	4311	22817	4745	13219	7137	4513
	2%	15%	2%	9%	4%	2%
grade 3 events	1647	2083	1497	3985	2678	1562
	0%	1%	0%	2%	1%	0%
grade 4 events	1561	1959	1435	4062	2654	1513
	0%	1%	0%	3%	1%	0%
grade 5 events	3730	7427	3747	9004	4819	4172
	2%	4%	1%	6%	2%	2%
grade 6 events	3172	29722	3920	25902	7054	3710
	1%	19%	2%	19%	4%	2%
grade 7 events	147904	78438	170190	72137	135546	152652
	85%	52%	87%	53%	78%	85%

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
[deg] Pointing RA	0	191.5866629193861
[deg] Pointing Dec	0	-13.32536196797561
[deg] Pointing Roll	0.0	40.74629414227655
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	575979494.3424439	575979494.3424439
Observation start date	2016-04-02T10:18:14	2016-04-02T10:18:14
[s] Observation end time (MET)	575989041.91064	575989041.91064
Observation end date	2016-04-02T12:57:22	2016-04-02T12:57:21
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	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)	2016.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.129840736866

A.2 Comments