

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 60669 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Aug 15 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	8
2.5	FID Slots	8
A	Summary	9
A.1	Status	9
A.2	Comments	9

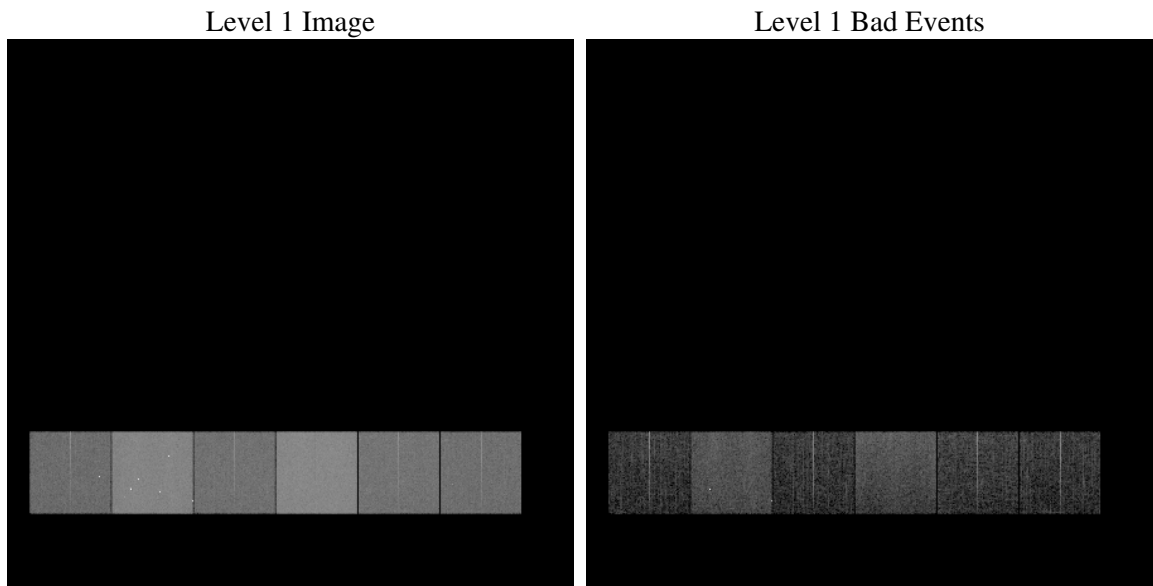
1 Front

seq_num	
obs_id	60669
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	92.864973537713
dec_nom	-40.009863800966
roll_nom	167.29968664364
revision	3
ontime	8442.9386454523
livetime	8336.0290725962
ontime4	4135.813246429
ontime5	8449.4616857171
ontime6	4505.2451150417
ontime7	8442.9386454523
ontime8	4641.4479447007
ontime9	4372.2403219044
l2events	1219390

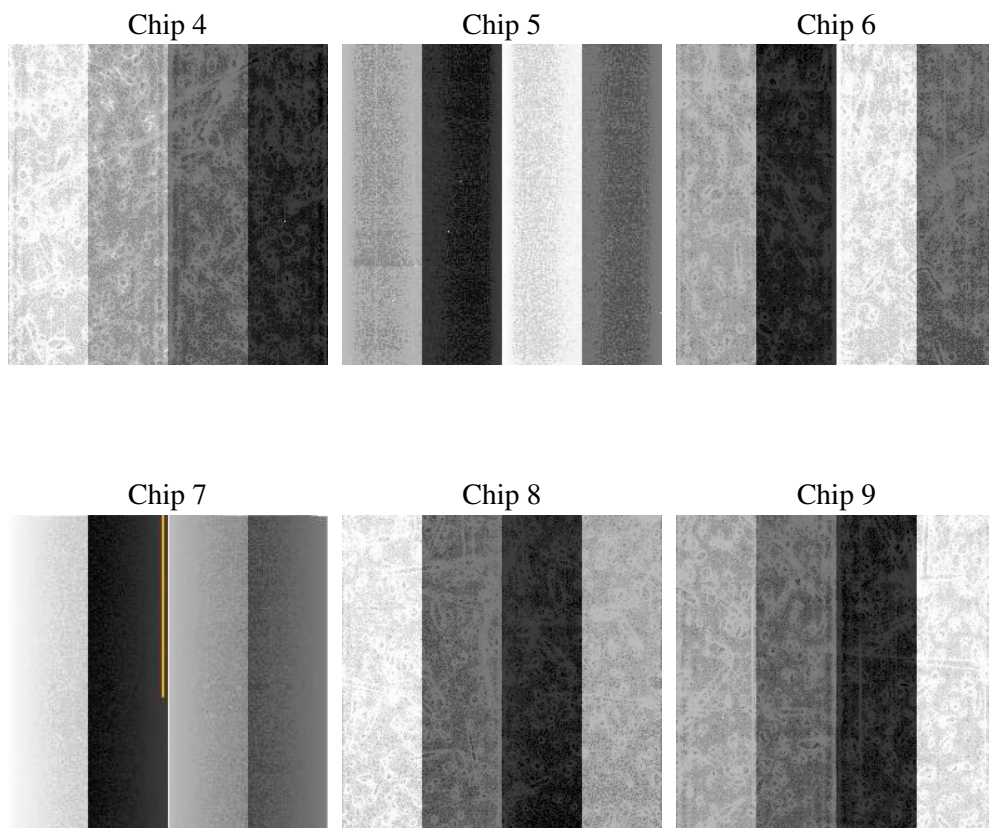
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-08-15T11:56:35
revision	3

sched_exp_time	0.0
ontime	8446.0421090424
ontime4	4138.7935900092
ontime5	8452.524109304
ontime6	4508.2664986253
ontime7	8446.0421090424
ontime8	4644.3872483075
ontime9	4375.3848254979
l1events	1536792

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	181347	355161	207010	378887	219251	195136
rejected events	30714	66333	30154	58777	35077	30106
rejected %	16%	18%	14%	15%	15%	15%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	89778	31461	96227	53419	102647	92157
	49%	8%	46%	14%	46%	47%
grade 1 events	625	190	400	126	489	483
	0%	0%	0%	0%	0%	0%
grade 2 events	22414	137387	31355	100521	31880	27589
	12%	38%	15%	26%	14%	14%
grade 3 events	9806	8415	10602	22517	11608	10361
	5%	2%	5%	5%	5%	5%
grade 4 events	9882	8072	10804	21725	11585	10425
	5%	2%	5%	5%	5%	5%
grade 5 events	1891	7102	2054	7116	2436	2113
	1%	1%	0%	1%	1%	1%
grade 6 events	18918	103660	28009	122526	27189	24661
	10%	29%	13%	32%	12%	12%
grade 7 events	28033	58874	27559	50937	31417	27347
	15%	16%	13%	13%	14%	14%

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	92.86497353771323	Alternating exposures requested	N	N
Pointing Dec	0	-40.0098638009657	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	167.2996866436373			
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	173887147.772113	173887146.74741			
Observation start date	2003-07-06T13:59:08	2003-07-06T13:59:06			
Observation end time	173909494.823064	173909493.79836			
Observation end date	2003-07-06T20:11:35	2003-07-06T20:11:33			
Read mode	TIMED	TIMED			

2.3 Aspect

2.4 Star Slots

2.5 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.44293864

A.2 Comments

Two CCD bias maps were incomplete because of data gaps in telemetry. Bias maps for chips 5 and 7 were reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps.

The ACIS focal plane temperature was above calibration limits for the entire observation.