

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1264 - L2 Version 2

Chandra X-Ray Center

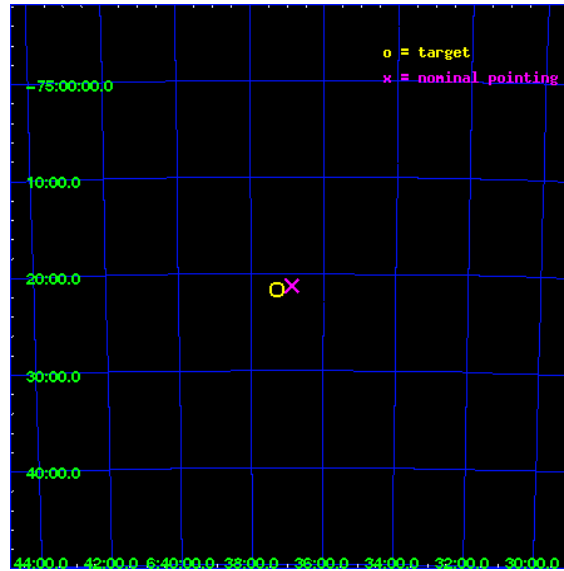
L2 Processing Date : Dec 14 2009

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1 Front

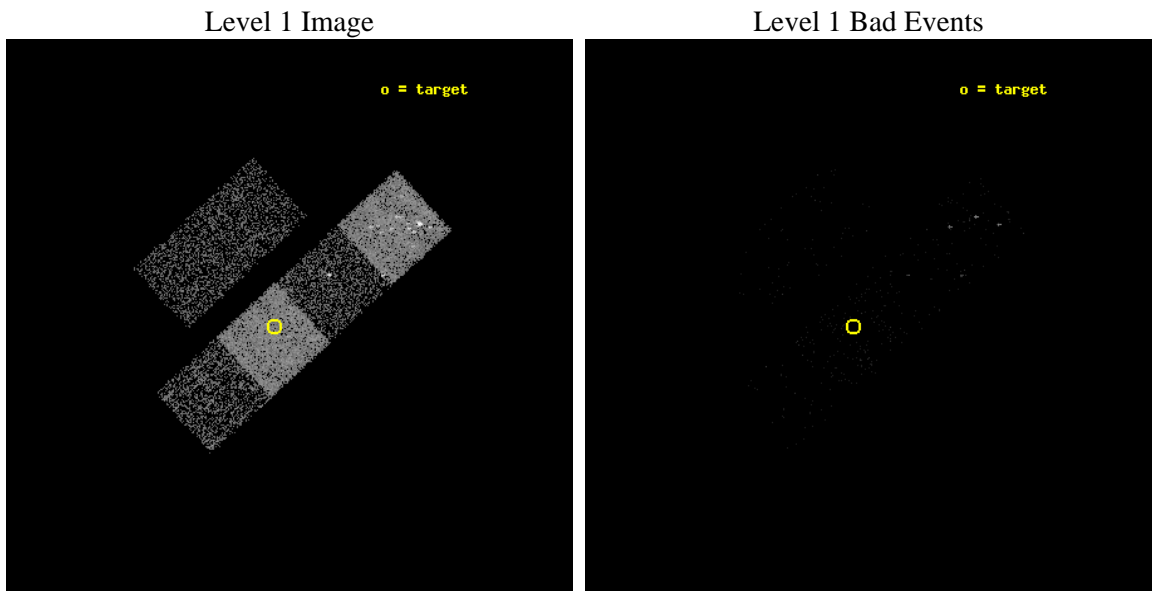
seq_num	780214	Sequence number
obs_id	1264	Observation id
title	 	Proposal title
observer	DR. CXC CALIBRATION	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	99.325316	Observer's specified target RA
dec_targ	-75.360754	Observer's specified target Dec
ra_nom	99.217561009078	Nominal RA
dec_nom	-75.353958000909	Nominal Dec
roll_nom	137.35056218402	Nominal Roll
revision	2	Processing version of data
ontime	0.0	Sum of GTIs [s]
livetime	0.0	Livetime [s]
ontime2	0.0	Sum of GTIs [s]
ontime3	0.0	Sum of GTIs [s]
ontime5	0.0	Sum of GTIs [s]
ontime6	0.0	Sum of GTIs [s]
ontime7	0.0	Sum of GTIs [s]
ontime8	0.0	Sum of GTIs [s]
l2events	0	Number of level 2 events



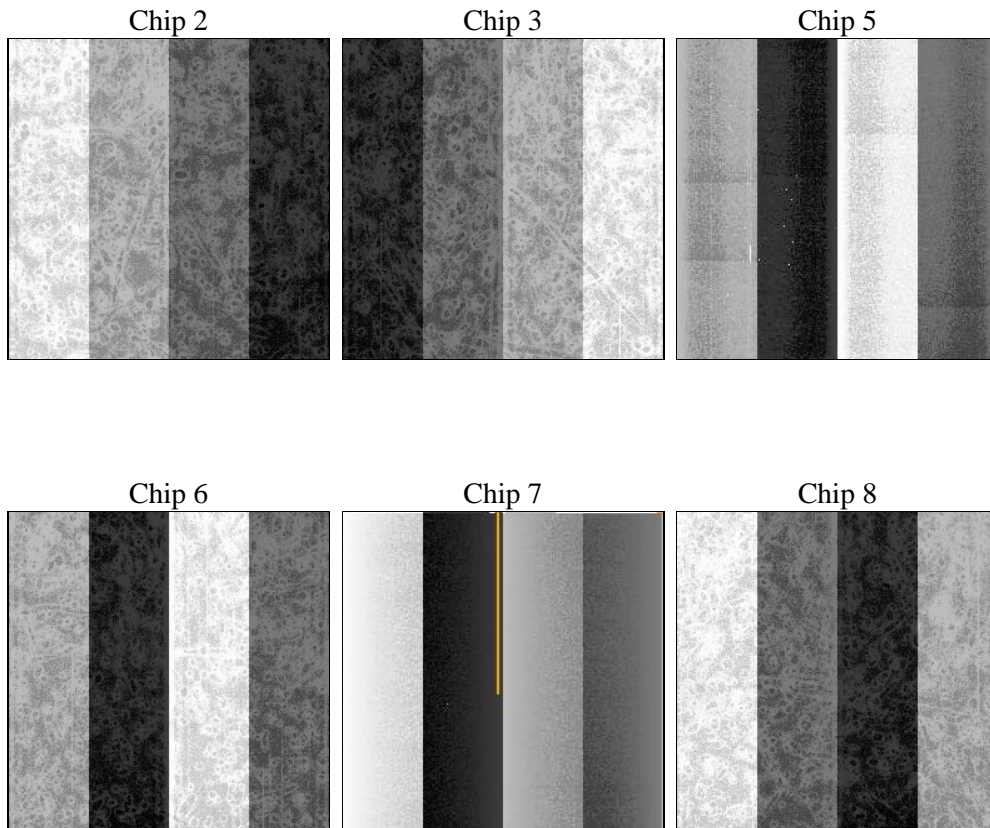
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	0.0	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	758.39315668494	Sum of GTIs [s]
date	2009-12-14T04:55:35	Date and time of file creation	ontime3	758.39315668494	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	758.39315668494	Sum of GTIs [s]
			ontime6	758.39315668494	Sum of GTIs [s]
			ontime7	758.39315668494	Sum of GTIs [s]
			ontime8	758.39315668494	Sum of GTIs [s]
			l1events	33068	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	1838	1893	13507	2526	10705	2599
rejected events	510	515	968	653	1021	589
rejected %	27%	27%	7%	25%	9%	22%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	358	349	3087	665	761	507
	19%	18%	22%	26%	7%	19%
grade 1 events	2	4	224	13	4	8
	0%	0%	1%	0%	0%	0%
grade 2 events	256	270	1934	341	1309	475
	13%	14%	14%	13%	12%	18%
grade 3 events	136	128	787	166	707	205
	7%	6%	5%	6%	6%	7%
grade 4 events	112	128	668	131	664	166
	6%	6%	4%	5%	6%	6%
grade 5 events	508	511	744	640	1017	581
	27%	26%	5%	25%	9%	22%
grade 6 events	466	503	6063	570	6243	657
	25%	26%	44%	22%	58%	25%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	99.325316	99.21756100907771	Alternating exposures requested	N	N
Pointing Dec	-75.360754	-75.35395800090851	Primary exposure time	0.000000	3.2
Pointing Roll	137.298067	137.3505621840183			
SIM focus pos (mm)	-0.684267	0.255451383487682			
SIM defocus (mm)	0	0.9397188447875782			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	51021224.184000	51020810.637103			
Observation start date	1999-08-14T12:32:40	1999-08-14T12:26:50			
Observation end time	51022224.184000	51022337.374657			
Observation end date	1999-08-14T12:49:20	1999-08-14T12:52:17			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

3 Point Sources

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.761

A.2 Comments

After the maneuver to this target, the guide stars were not acquired and the satellite went to Bright Star Hold. The telescope was in Kalman lock during most of the observation, using whatever bright stars it had acquired for pointing control. The data system does not have information on the position and magnitude of the stars used for Bright Star Hold, and therefore no aspect solution (pointing reconstruction) has been calculated, other than the OBC calculation. This results in no GTI and no Level 2 events. There are events in the Level 1 event file, although artifacts of the dither pattern can be seen in the image.

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It is possible to determine the position and magnitude of each star used for pointing control during a Bright Star Hold by a posterior calculations. It was not deemed worthwhile for this observation, but could be done on request.

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The focal plane temperature is approximately -100 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.