

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4458 - L2 Version 4
Chandra X-Ray Center

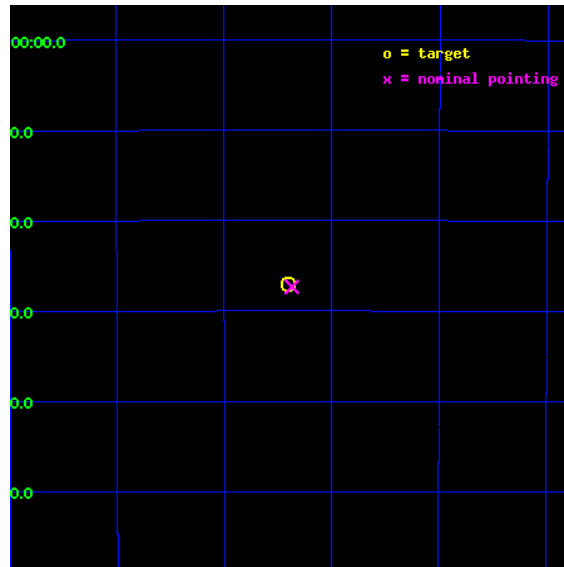
L2 Processing Date : Nov 12 2012

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1 Front

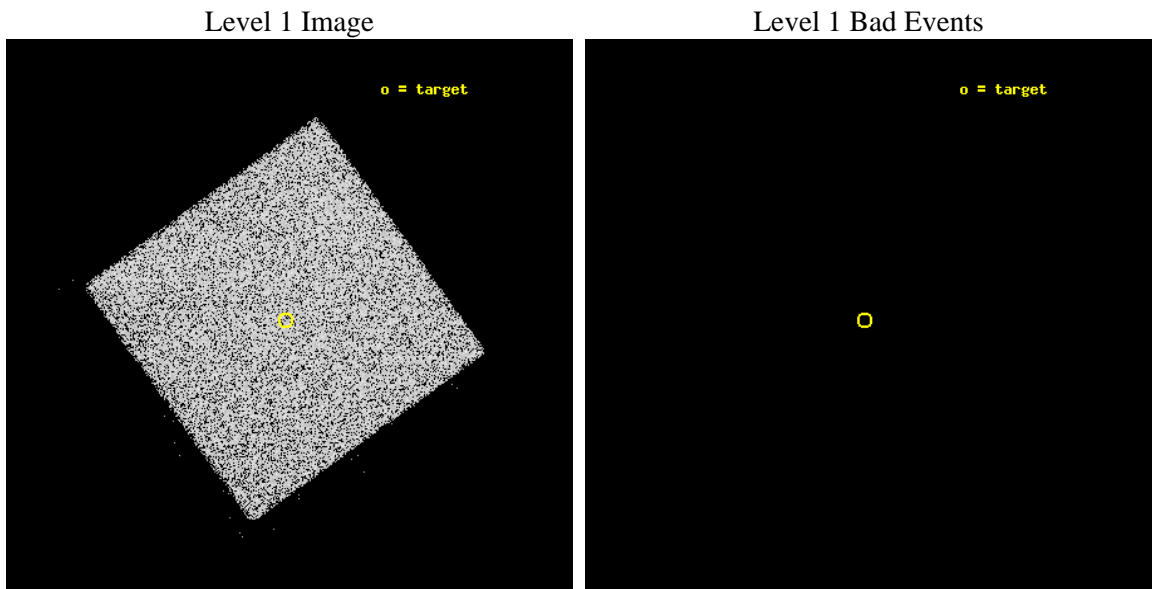
seq_num	100041	Sequence number
obs_id	4458	Observation id
title	A Search for Soft X-Ray Auroras on Earth	Proposal title
observer	Dr. Ronald Elsner	Principal investigator
object	EARTH	Source name
ra_targ	75.1	Observer's specified target RA [deg]
dec_targ	-36.45	Observer's specified target Dec [deg]
ra_nom	75.092477416798	Nominal RA [deg]
dec_nom	-36.455621233378	Nominal Dec [deg]
roll_nom	279.249741358	Nominal Roll [deg]
revision	4	Processing version of data
ontime	0.0	[s]
livetime	0.0	Ontime multiplied by DTCOR
l2events	0	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	0.0	[s]
caldbver	4.5.2	 	l1events	86376	Number of level 1 events
date	2012-11-12T16:23:57	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

	segment 0
level 1 events	86376
rejected events	0
rejected %	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I			
Grating	NONE	NONE			
Data mode	OBSERVING	OBSERVING	Obspar file type	PREDICTED	ACTUAL
Observation mode	POINTING	POINTING	Obspar update status	OVERRIDE	OVERRIDE
[deg] Pointing RA	75.09247180879908	75.09247741679756			
[deg] Pointing Dec	-36.45559382430653	-36.45562123337832			
[deg] Pointing Roll	279.2497380189947	279.2497413580001			
[s] Window start time (MET)	194331664.184000	194331664.184000			
[s] Window stop time (MET)	194334064.184000	194334064.184000			
[mm] SIM focus pos	-1.0388663562	-1.0388663562			
[mm] SIM defocus	0.00142623215544524	0.00142623215544524			
[mm] SIM translation stage pos	126.9854943053	126.9854943053			
[mm] SIM translation stage offset	-1.219291334564332e-11	-1.219291334564332e-11			
[s] Observation start time (MET)	194331693.079754	194331693.079754			
Observation start date	2004-02-28T05:00:00	2004-02-28T05:01:33			
[s] Observation end time (MET)	194332938.454809	194332938.454809			
Observation end date	2004-02-28T05:20:00	2004-02-28T05:22:18			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.245

A.2 Comments

On-Board-Computer aspect solution used. Due to violation of the earth angle constraint, there are no L2 events, and therefore no ontime or GTI. Charge time is set to the L1 time.

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Spacecraft attitude control was maintained at a single fixed attitude using gyros only, without any reference stars or any other external attitude references. This is an observation of a moving target. Event positions are in the reference frame of Chandra, not of the Earth. Users should run a software tool such as `sso_freeze` to reposition the events in the reference frame of the Earth, then run normal data analysis tools.