

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4464 - L2 Version 5  
Chandra X-Ray Center

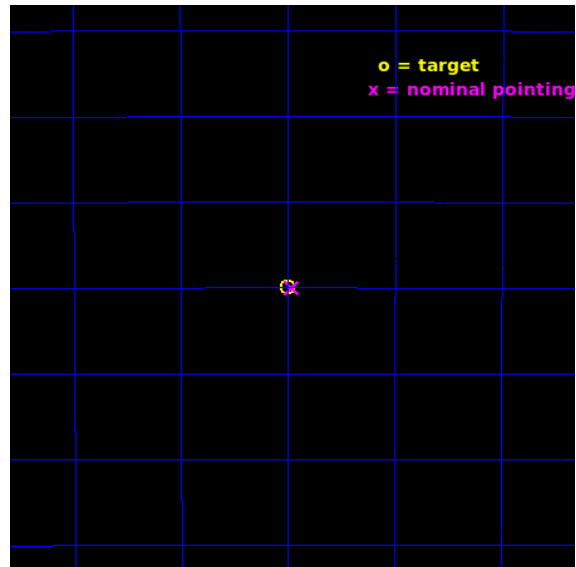
L2 Processing Date : Sep 24 2020

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# 1 Front

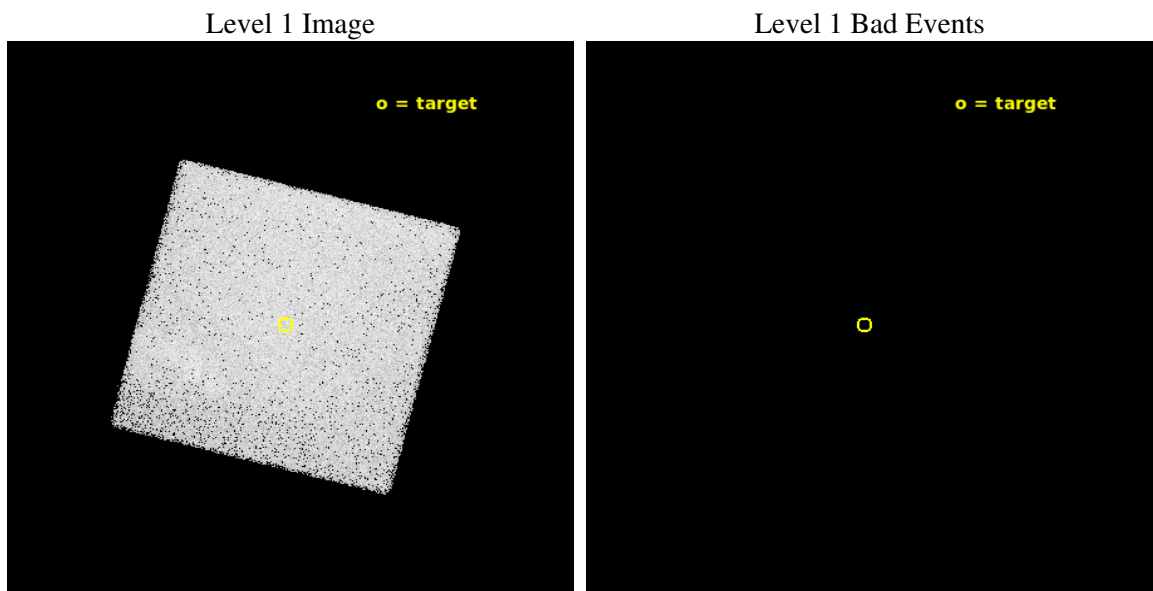
seq_num	100047	Sequence number
obs_id	4464	Observation id
title	A Search for Soft X-Ray Auroras on Earth	Proposal title
observer	Dr. Ronald Elsner	Principal investigator
object	EARTH	Source name
ra_targ	72.5	Observer's specified target RA [deg]
dec_targ	-37.0	Observer's specified target Dec [deg]
ra_nom	72.490466467619	Nominal RA [deg]
dec_nom	-37.000115011088	Nominal Dec [deg]
roll_nom	239.22795875024	Nominal Roll [deg]
revision	5	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	0	Obi number	sched_exp_time	1200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	0.0	[s]
caldsver	4.9.2	&#160	l1events	196056	Number of level 1 events
date	2020-09-25T02:43:20	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

	<b>segment 0</b>
level 1 events	196056
rejected events	0
rejected %	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	72.49048421286979	72.49046646761919
[deg] Pointing Dec	-37.0000911204983	-37.00011501108808
[deg] Pointing Roll	239.2279694228139	239.2279587502385
[s] Window start time (MET)	197986264.184000	197986264.184000
[s] Window stop time (MET)	197988664.184000	197988664.184000
[mm] SIM focus pos	-1.0388663562	-1.0388663562
[mm] SIM defocus	0.00142623215544524	0.00142623215544524
[mm] SIM translation stage pos	126.98297999	126.98297999
[mm] SIM translation stage offset	0.002514315287797331	0.002514315287797331
[s] Observation start time (MET)	197987298.184	197987298.184
Observation start date	2004-04-10T12:27:14	2004-04-10T12:28:18
[s] Observation end time (MET)	197988498.184	197988498.184
Observation end date	2004-04-10T12:47:14	2004-04-10T12:48:18

Parameter	Planned	Actual
Obspar format version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.2

## A.2 Comments

Window constraint met.

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Because the OBC aspect solution was used, there are no L2 events, and consequently no GTIs. Charge time is taken from the L1 ontime instead.

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This is an observation of a moving target. Users will need to run sso\_freeze or similar software to position the events in the reference frame of the target.