

<http://cxc.harvard.edu/csc/>

The Chandra Source Catalog (CSC) is ultimately intended to be the definitive catalog of all X-ray sources detected by the Chandra X-Ray Observatory. Release 1.0 of the catalog, available since March 2009, includes information about point and compact (<~30 arcsec) sources detected in public ACIS imaging observations from roughly the first eight years of the Chandra mission; highly extended sources, and sources located in selected fields containing bright, highly extended sources, are excluded. CSC Release 1.1 (April 2010) will include the information contained in Release 1.0, plus point and compact source data extracted from HRC imaging observations and “catch-up” ACIS observations released publicly prior to the end of 2009.

X-ray spatial, spectral, and temporal source properties are provided for each source in the catalog:

- * **Position and Position Errors**
- * **Source Flags**
- * **Source Extent and Errors**
- * **Source Fluxes**
- * **Source Significance**
- * **Spectral Properties**
- * **Source Variability**

Chandra Level=3 full-field and source region data products are also available for each source in the catalog:

Full-field files

events table
events image
background
exposure map
sensitivity map
aspect histogram
bad pixel
field of view

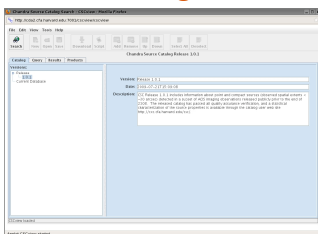
Source region files

events table
events image
region
exposure map
light curve
PHA
ARF
RMF
PSF

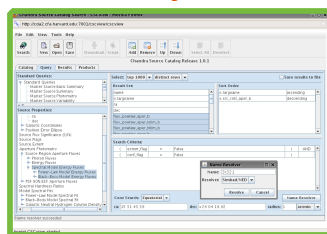
The CSCview data retrieval interface is available for browsing the CSC and downloading tables of quality-assured source properties and data products. CSCview is a GUI application which has design features reminiscent of a web browser, with various tabbed pages and a standardized menu bar with common options available in *File*, *Edit*, *View*, and *Help* menus (however the tabs are not independent of one another). It is a Java applet which runs in a Java-enabled web browser, requiring Java version 1.5 or higher.

CSCview has five distinct faces split amongst four tabs: the *Catalog* tab, the *Query* tab, consisting of a query builder page and an Astronomical Data Query Language (ADQL) 2.0 query editor page, the *Results* tab, and the *Products* tab.

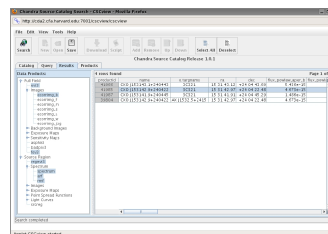
Catalog tab



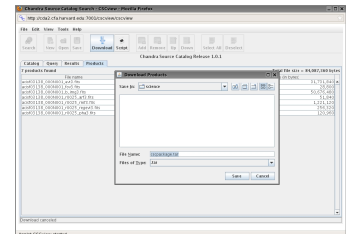
Query tab



Results tab

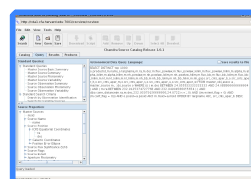


Products tab



Choose which view of the catalog to access, a “release view” or the “current database view.”

Construct a catalog query in the **query builder** or the **ADQL query editor**.



Save the table of query results to a tab-delimited format text file, and make data product selections for sources in the table.

Download source region and/or full-field data products to a single tar file, or generate a Wget download script for a batch download on the Unix command line.

