

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

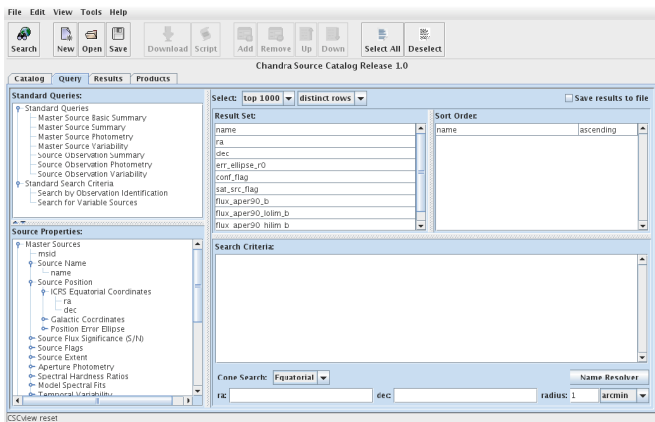
The Chandra Source Catalog (CSC) is ultimately intended to be the definitive catalog of all X-ray sources detected by the Chandra X-Ray Observatory. CSC Release 1 became available in March 2009; it includes information about sources detected in public ACIS imaging observations from roughly the first eight years of the Chandra mission. Only point sources, and compact sources with extents ~ 30 arcseconds, are included. Highly extended sources, and sources located in selected fields containing bright, highly extended sources, are excluded.

The CSC contains positions and multi-band count rates for the sources, as well as derived spatial, spectral, and temporal calibrated source properties that may be compared with data obtained by other telescopes. The CSC also includes associated data products for each source, including images, photon event lists, light curves, and spectra.

Search the catalog, save text files of source data, and download data files associated with each source with CSCview.

1

2



Chandra Source Catalog Release 1.0

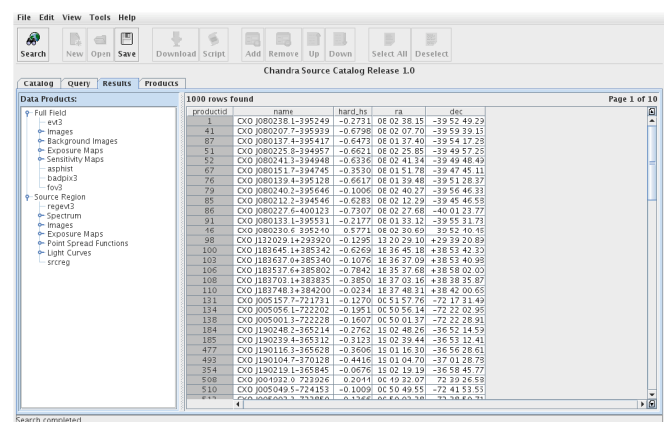
Standard Queries: Master Source Basic Summary, Master Source Summary, Master Source Photometry, Master Source Variability, Source Observation Summary, Source Observation Photometry, Source Observation Variability

Source Properties: Master Sources, msid, Source Name, name, Source Position, ICRS Equatorial Coordinates, Galactic Coordinates, Position Error Ellipse, Source Flux Significance (S/N), Source Flags, Source Orient, Aperture Photometry, Spectral Hardness Ratios, Model Spectral Fits, Temporal Variability

Search Criteria: Comp Search: Equatorial, Name Resolver

Result Set: top 1000, distinct rows

Search: name, Sort Order: name ascending



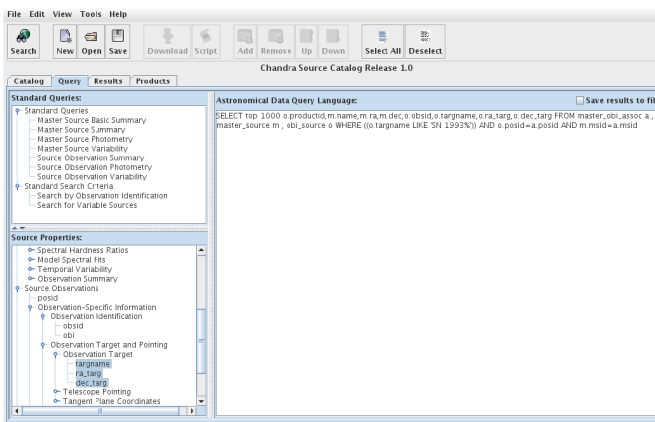
Chandra Source Catalog Release 1.0

1000 rows found

productid	name	hard_hs	ra	dec
1	CXO J080238-1-395249	-0.2731	08 02 38.10	-39 52 49.29
41	CXO J080207-1-395939	-0.6798	08 02 07.70	-39 59 39.15
87	CXO J080137-4-395417	-0.6473	08 01 37.40	-39 54 17.25
51	CXO J080235-3-394957	-0.6621	08 02 35.85	-39 49 57.25
52	CXO J080241-1-394948	-0.6535	08 02 41.34	-39 49 48.42
67	CXO J080151-7-394745	-0.5530	08 01 51.78	-39 47 45.11
76	CXO J080139-4-395128	-0.6517	08 01 39.48	-39 51 28.37
79	CXO J080240-2-395646	-0.1006	08 02 40.27	-39 56 46.33
85	CXO J080212-2-394546	-0.6283	08 02 12.29	-39 45 46.55
86	CXO J080237-4-400123	-0.7507	08 02 37.68	-40 01 23.77
91	CXO J080133-1-395531	-0.2177	08 01 33.32	-39 55 31.73
16	CXO J080230-3-395160	0.5773	08 02 30.60	-39 52 40.16
98	CXO J132029-14-293920	-0.1295	13 20 29.10	+29 39 20.89
100	CXO J181645-14-385242	-0.6269	18 16 45.18	+38 52 42.35
103	CXO J181637-8-385400	-0.1076	18 16 37.00	+38 53 40.95
106	CXO J181537-6-385802	-0.7842	18 15 37.68	+38 58 02.02
108	CXO J181702-14-381825	-0.3850	18 17 02.16	+38 18 25.87
110	CXO J181748-14-384200	-0.224	18 17 48.31	+38 42 06.65
131	CXO J005157-7-221731	-0.1270	00 51 57.76	-22 17 31.42
134	CXO J005056-17-222262	-0.1951	00 50 56.14	-22 22 26.95
138	CXO J005001-3-222228	-0.1607	00 50 01.37	-22 22 28.91
184	CXO J190248-1-265214	-0.2762	19 02 48.26	-26 52 14.52
195	CXO J190239-1-265132	-0.1123	19 02 39.44	-26 51 31.41
477	CXO J190116-1-365628	-0.3606	19 01 16.30	-36 56 28.61
493	CXO J190104-1-370128	-0.1416	19 01 04.79	-37 01 28.79
334	CXO J190219-1-365845	-0.0676	19 02 19.10	-36 58 45.77
508	CXO J004922-0-723926	0.2041	00 49 22.07	-72 39 26.58
510	CXO J005049-1-724153	-0.1009	00 50 49.53	-72 41 53.53
814	CXO J004603-3-333861	0.1262	00 46 03.30	-33 38 61.31

OR

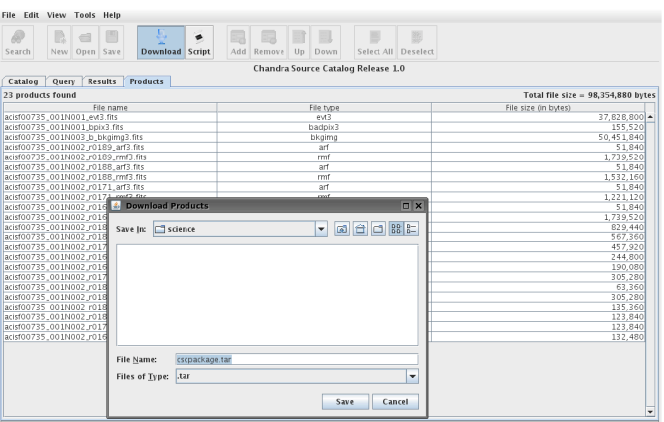
3



Chandra Source Catalog Release 1.0

Astronomical Data Query Language: `SELECT top 1000 a.productid,m.name,m.ra,m.dec,a.obsid,o.targetname,e.ra,targ.o.dec,targ FROM master_obs_assoc a ,master_source m ,tbl_source o WHERE ((o.targetname LIKE 'SN 1992N') AND o.poid=a.poid) AND m.msid=a.msid`

Source Properties: Spectral Hardness Ratios, Model Spectral Fits, Temporal Variability, Observation Summary, Source Observations, obsid, Observation-Specific Information, Observation Identification, Observation-Target and Pointing, Observation Target, targname, ra,targ, dec,targ, Telescope Pointing, Target Name Coordinates



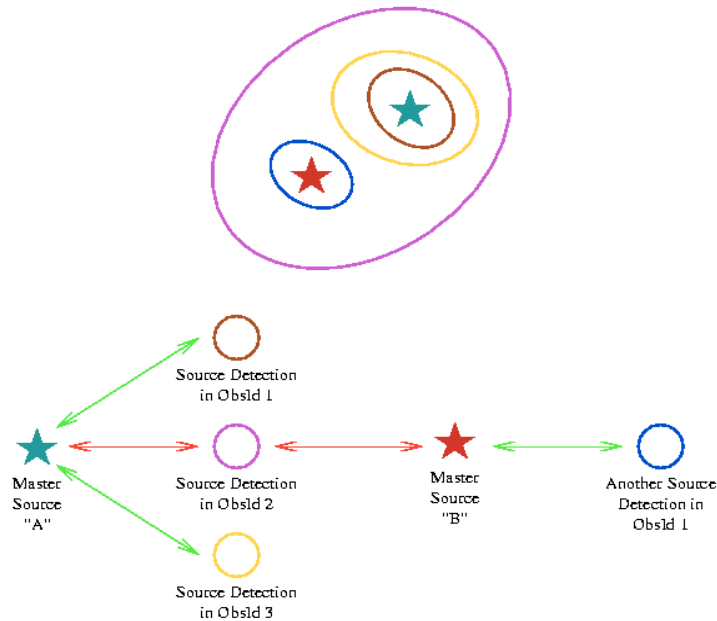
Chandra Source Catalog Release 1.0

23 products found

File Name	File Type	File Size (in bytes)
acis00735_001n001_arf.fits	arf	37,620,800
acis00735_001n001_bkgv2.fits	bkgv2	155,520
acis00735_001n001_bkgv3.fits	bkgv3	50,481,840
acis00735_001n002_01850_arf2.fits	arf	51,840
acis00735_001n002_01850_rmf2.fits	rmf	1,739,520
acis00735_001n002_01888_arf2.fits	arf	51,840
acis00735_001n002_01888_rmf2.fits	rmf	1,739,520
acis00735_001n002_01888_arf3.fits	arf	51,840
acis00735_001n002_01888_rmf3.fits	rmf	1,739,520
acis00735_001n002_01888_arf4.fits	arf	51,840
acis00735_001n002_01888_rmf4.fits	rmf	1,739,520
acis00735_001n002_01888_arf5.fits	arf	51,840
acis00735_001n002_01888_rmf5.fits	rmf	1,739,520
acis00735_001n002_01888_arf6.fits	arf	51,840
acis00735_001n002_01888_rmf6.fits	rmf	1,739,520
acis00735_001n002_01888_arf7.fits	arf	51,840
acis00735_001n002_01888_rmf7.fits	rmf	1,739,520
acis00735_001n002_01888_arf8.fits	arf	51,840
acis00735_001n002_01888_rmf8.fits	rmf	1,739,520
acis00735_001n002_01888_arf9.fits	arf	51,840
acis00735_001n002_01888_rmf9.fits	rmf	1,739,520
acis00735_001n002_01888_arf10.fits	arf	51,840
acis00735_001n002_01888_rmf10.fits	rmf	1,739,520

Download Products dialog box: Save in: science, File Name: cscpackage.tar, Files of Type: tar

The catalog is presented in two tables: the **Master Sources Table** and the **Source Observations Table**. Each distinct X-ray source on the sky identified in the CSC is represented by a single *master source* table entry and one or more *source observation* table entries for each observation in which the source is detected. In each table, a row represents a source, and each column a quantity or parameter that is officially part of the catalog.



The red arrows in the figure illustrate that confused sources are linked to multiple master sources in the catalog, but their properties do not contribute to the reported master source properties.

If a source is detected in multiple observations that overlap the same region of sky, then the master source table entry is produced by merging the corresponding individual source observations. **The properties of a master source represent the best estimates of the source properties derived from the set of individual source observations contributing to the master source.** The Source Observations Table contains source properties based on observational data extracted independently from each Chandra pointing in which the source is detected; it contains multiple entries for the corresponding single, merged source entry in the Master Sources Table.

Bidirectional links within the catalog database connect a master source table entry with multiple source observation entries associated with it, so that you can view all observations of a single source and how they contribute to the master source entry. These links are referred to as Master Sources/Source Observations Associations. This feature allows you to request any combination of master source properties and source observation properties in a single query to the database, so you are not restricted to searching a single table at a given time.

Send questions about the CSC to the CXC Helpdesk:

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

