Chandra Source Catalog:
Source Properties and Data Products

Source Flags
Various quick-reference and warning flags

Source Flags

Property / Data Product	Each band
Significance	
Detect significance	✔
Flux significance	✔
Extent	O
Confusion	O
Variability	O
Hardness ratio variability	
Streak source	O
Saturated source	O
Pile-up	
Chip edge	
Multi-chip	
Dither warning	
Manual include	
Manual Region	
Manual match	

O: separate values for each band only in per-observation sources

Photometry
Photometric parameters derived from the source region apertures, as well as apertures covering 90% of the PSF

Photometric Information

Property Data Product	Each band	Confidence limits	Also at 90% PSF	Background
Aperture	✔		✔	✔
Counts in aperture	✔		✔	✔
Source counts in aperture	✔		✔	
Source rate in aperture	✔	✔	✔	
Photon flux	✔	✔	✔	
Aperture flux	✔	✔	✔	
Power Law flux	✔	✔	✔	
Black Body flux	✔	✔	✔	

Space
Position and size of the source

Spatial properties

Property Data Product	Each band	Error	Background
RA, Dec	O	E	
Galactic l, b	O		
Focal plane θ, ϕ			
Observed size	✔	✔	
PSF size	✔	✔	
Deconvolved size	O	✔	
Region			✔
Image	✔		
PSF Image	✔		
Exposure map	✔		

O: separate values for each band only in per-observation sources
E: error ellipse

Keys
In the tables individual source items are color coded, indicating in which table they may be found, or whether they are data products.

Red: Properties for per-observation sources
Blue: Properties for Master List sources
Black: Properties in both source lists
Magenta: Data product

Spectrum
Spectral fits, hardness ratios, spectral files

Spectral Information

Property Data Product	Confidence limits	Also at 90% PSF
Power Law fit	✔	
Black Body fit	✔	
N_H (Galactic)		
Hardness ratios	✔	
Spectrum		✔
ARF (auxiliary response)		
RMF (redistribution matrix)		

Time
Variability probabilities for single and multiple observations

Variability Information

Property Data Product	Each band	Error	Background
Intra variability index	✔		
Intra variability sigma	✔		
Intra variability mean/min/max	✔		
GL variability probability	✔		
KP variability probability	✔		
KS variability probability	✔		
Inter variability index			
Inter variability probability			
Inter variability sigma			
Light curve	✔	✔	✔

Intra: within a single observation
Inter: across multiple observations

Observation
Information on the observation(s) where the source was detected

Observation Information

Property / Data Product	Background
Number ACIS observation	
Number HRC observation	
Exposure time ACIS	
Exposure time HRC	
ObsId	
Observation Interval	
...etc.	
Event List	
Field of view	
Image	✔
Exposure map	
Sensitivity map	

CSC Energy bands

ACIS:	0.5 keV < **b** < 7.0 keV	
ACIS:	0.2 keV < **u** < 0.5 keV < **s** < 1.2 keV < **m** < 2.0 keV < **h** < 7.0 keV	
HRC:	0.1 keV < **w** < 10.0 keV	