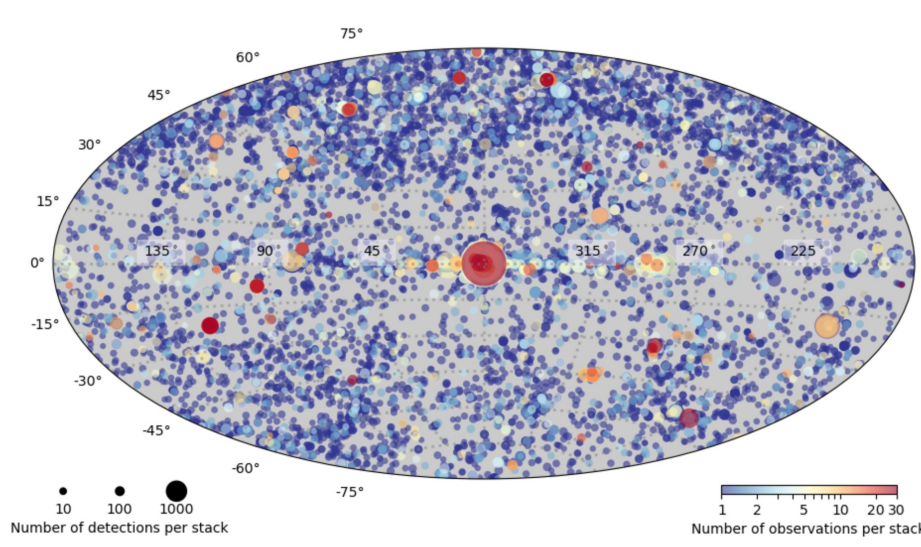


## Chandra Source Catalog

The CSC 2.1 includes measured properties for about 400k X-ray sources with data public by Dec 2021.

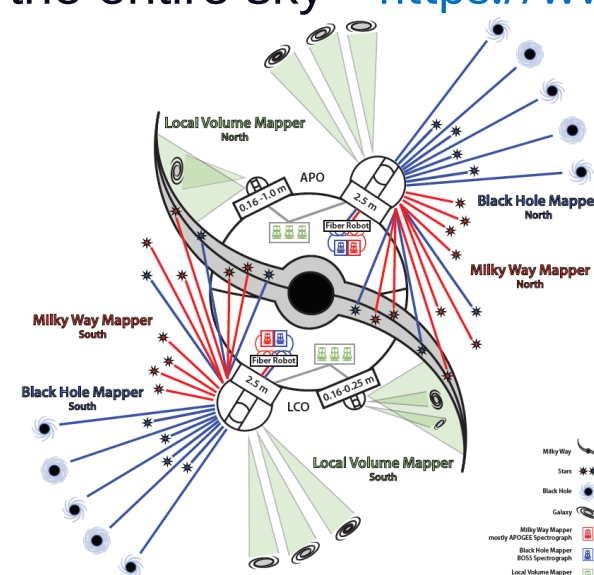
<https://cxc.cfa.harvard.edu/csc>



## SDSS-V

The SDSS-V (2020 – 2027) is providing multi-epoch optical ( $r < 21$ ,  $R \sim 2000$ ) & IR ( $H < 14$ ,  $R \sim 22,500$ ) spectroscopy across the entire sky

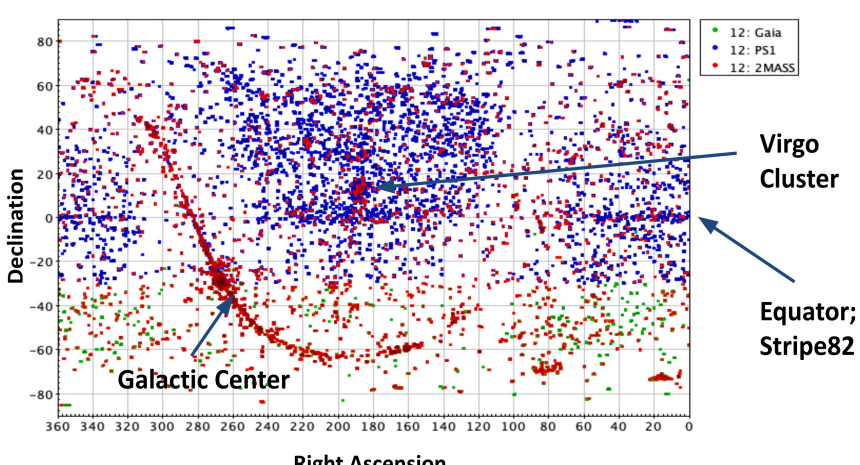
<https://www.sdss.org>



SDSS-V uses 500 optical and IR fibers robotically positioned at both the APO 2.5m North (7deg<sup>2</sup> FoV) and LCO 2.5m South (3deg<sup>2</sup>)

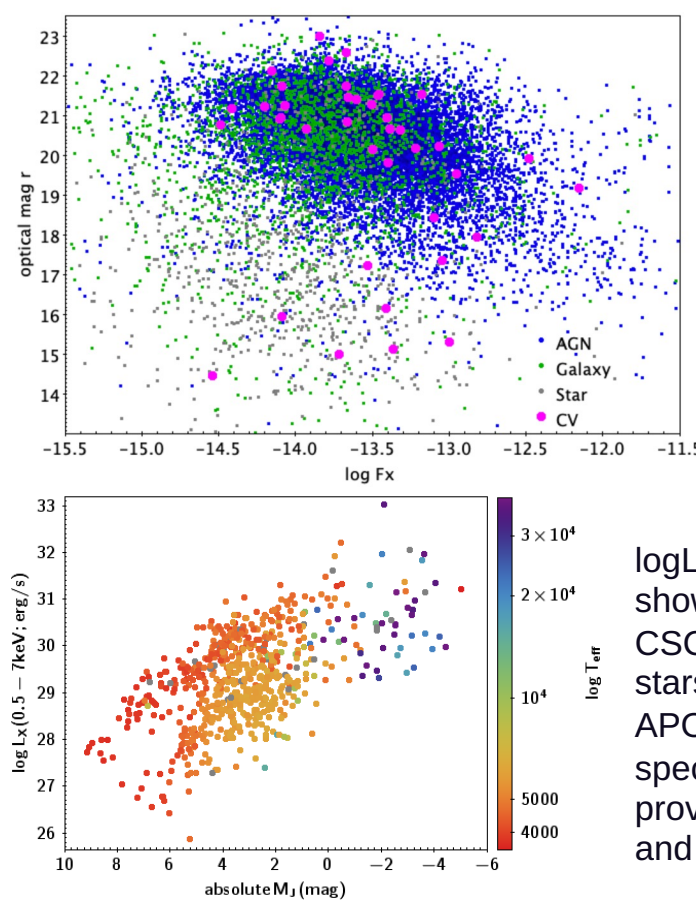
## CSC/SDSS-V Targets

SDSS-V is obtaining optical & IR spectra for ~40k of 188k CSC2.1 counterparts matched to all-sky opt/IR catalogs



[https://cxc.cfa.harvard.edu/csc/csc\\_crossmatches.html](https://cxc.cfa.harvard.edu/csc/csc_crossmatches.html)

## SDSS Spectra Past & Present



**Existing Optical Spectroscopic Matches**

CSC2.1 2022 Oct Matched (3") to DR17 + spAll-v6\_0\_9 through 59764

**14231 AGN**  
**2473 Galaxies**  
**817 Stars**  
**44 CVs**

**17565**

log L<sub>X</sub> vs. M<sub>J</sub> (color shows T<sub>eff</sub>) for 740 CSC2.1 matched to stars with SDSS-V APOGEE IR spectra. SDSS provides log g, T<sub>eff</sub> and [Fe/H]