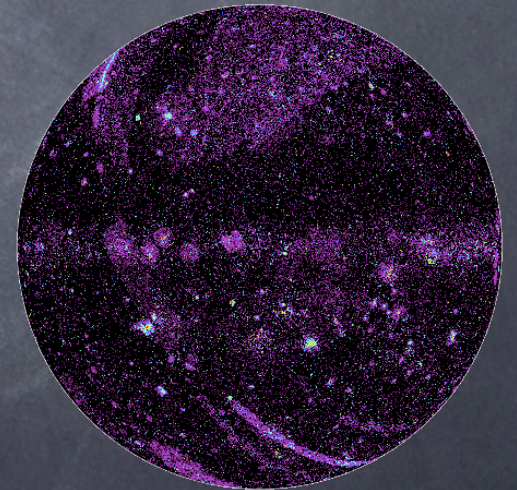
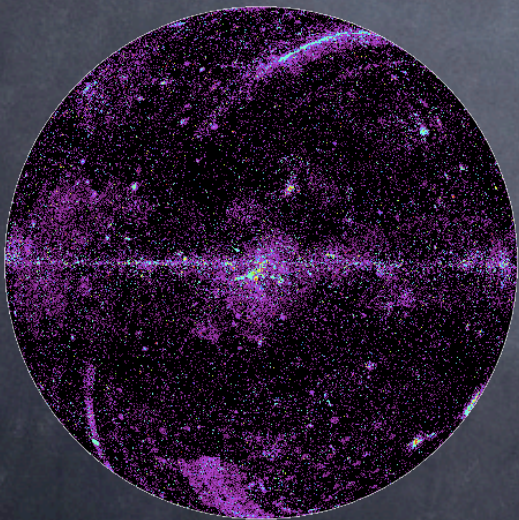
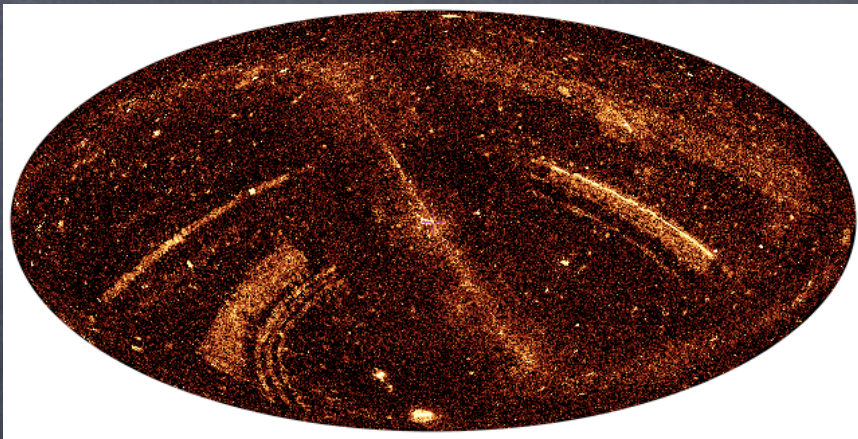


Simbad bibliographical map and beyond

Mining CDS data

Thomas Boch [CDS]



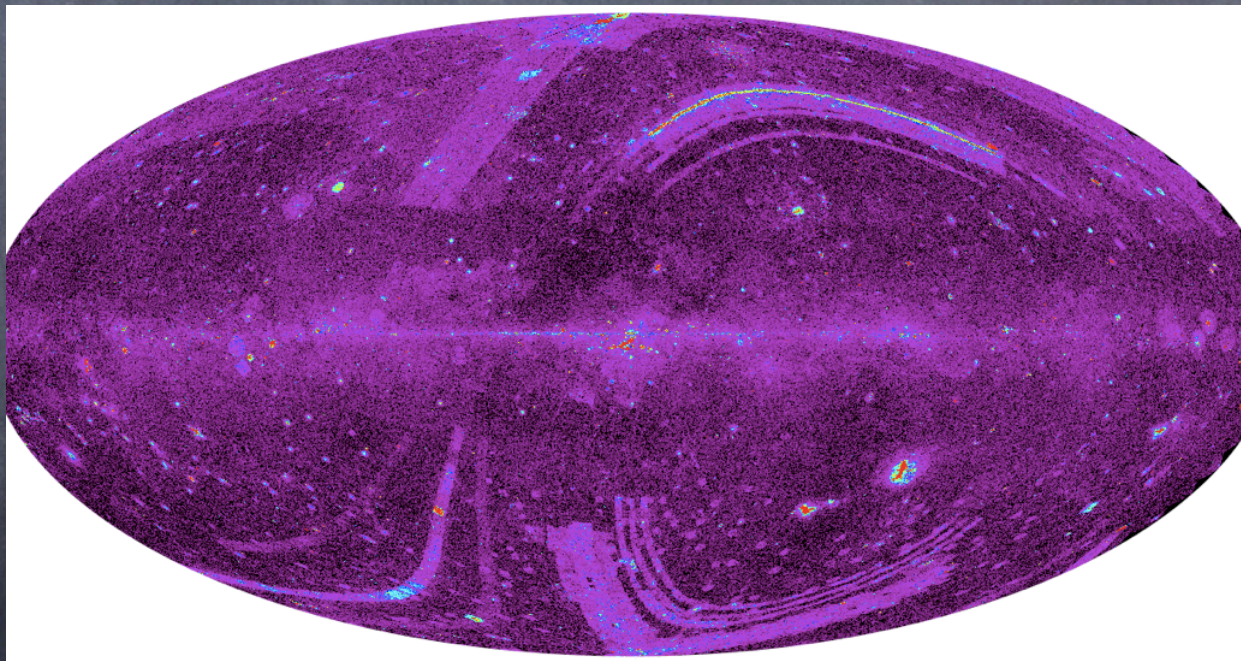


Bibliographical map

- Density map of Simbad objects on the sky (weighted by the number of references for each object)
- Gives a global view of how Simbad sources/ references are distributed on the sky
 - point out dense and/or deeply studied regions

Technical details (1/2)

- Map dynamically generated as HEALPIX files
 - each “pixel” has the same surface on the sky
 - can be visualized in any tool supporting Healpix




Technical details (2/2)

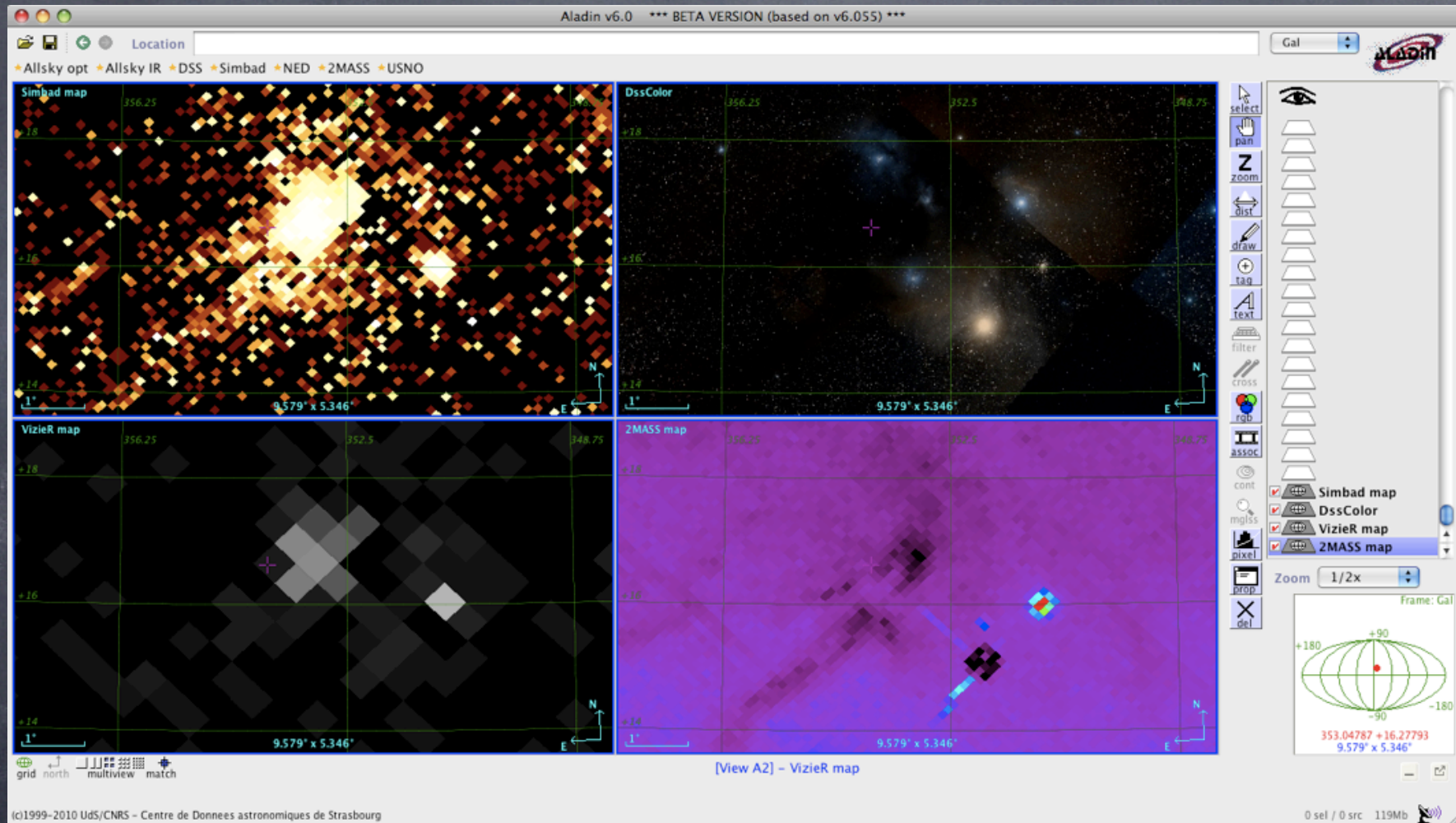
- User can choose resolution (NSIDE) and set some constraints to filter out sources of interest (by object type, color, magnitudes ranges)
 - Reduced view of Simbad data (RA, DEC, B,V,J, H, K, ...)
 - extracted from simbad database
 - converted to COLFITS (column-oriented storage, provided by STILTS) for fast selection by criteria

Demo

Aladin v6.0 *** BETA VERSION (based on v6.055) ***

Location Gal 

★ Allsky opt ★ Allsky IR ★ DSS ★ Simbad ★ NED ★ 2MASS ★ USNO



0 sel / 0 src / 119Mb

(c)1999-2010 Uds/CNRS - Centre de Donnees astronomiques de Strasbourg



*IVOA Interop Meeting@Victoria
May 18 2010 - KDD - T. Boch*



Conclusions

- Healpix density maps allow to
 - explore available data
 - compare data at a global level
 - compare coverage of different catalogues
- Next step
 - compute intersection between different surveys/catalogues/etc coverage maps
 - query catalogues by a set of healpix numbers
- Link with footprint effort at IVOA level



*IVOA Interop Meeting@Victoria
May 18 2010 - KDD - T. Boch*

