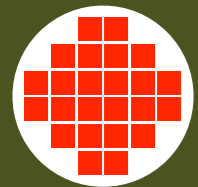


LOFAR MSSS

Multifrequency Snapshot Sky Survey



M * S * S * S

STATUS REPORT AND UPDATE

MULTIFREQUENCY SNAPSHOT SKY SURVEY

**George Heald (MSSS Project Leader)
(on behalf of the MSSS Team)**

LOFAR status meeting, 21/1/2015

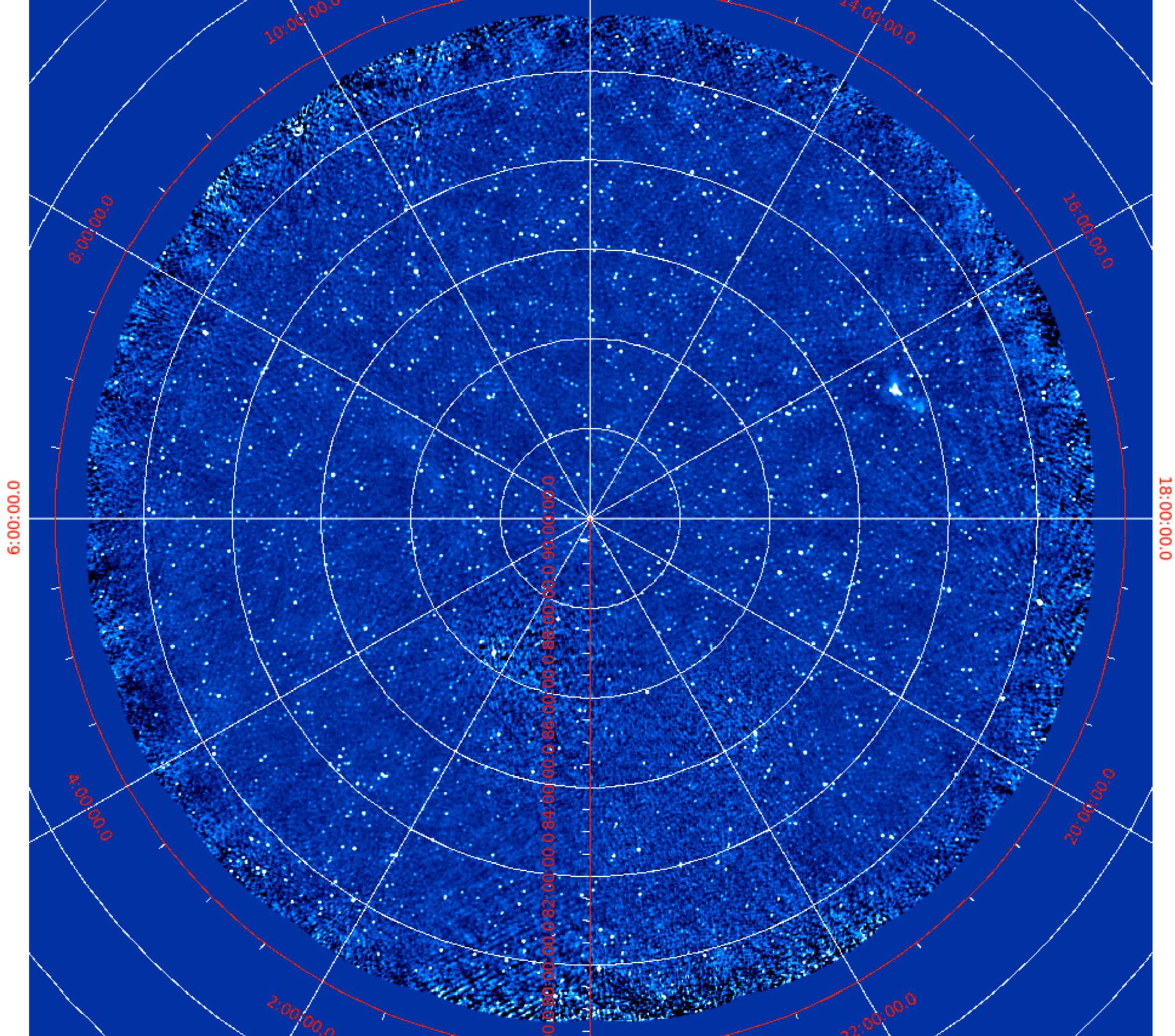


LOFAR

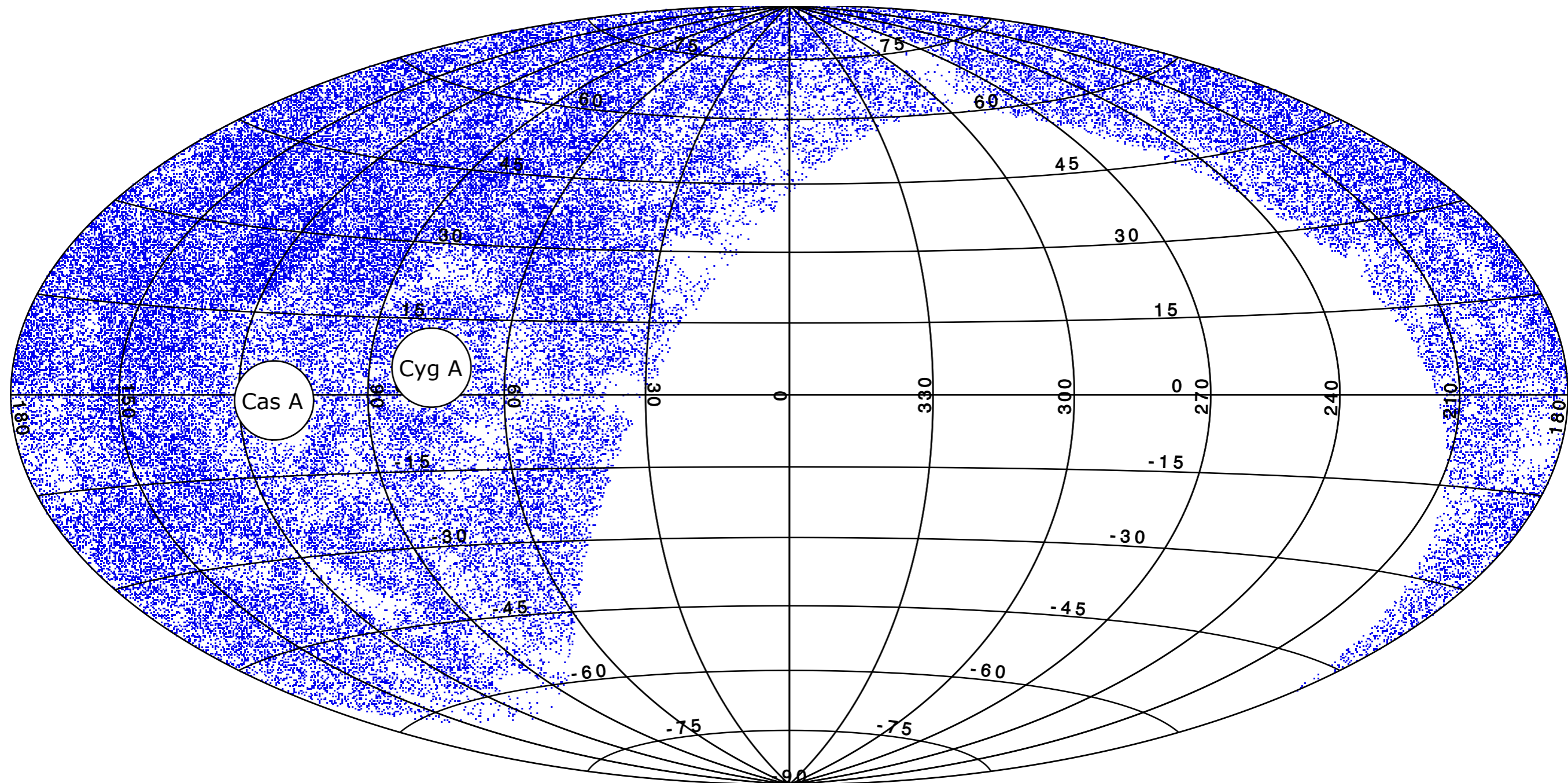
- MVF paper status
- Toward the first HBA catalog

- MSSS Verification Field
 - 100 square degrees centered at (15h,69d)
 - Both LBA and HBA (~1000 sources)
- Paper submitted to A&A, referee report in hand
- Intention is to make the data products available after acceptance

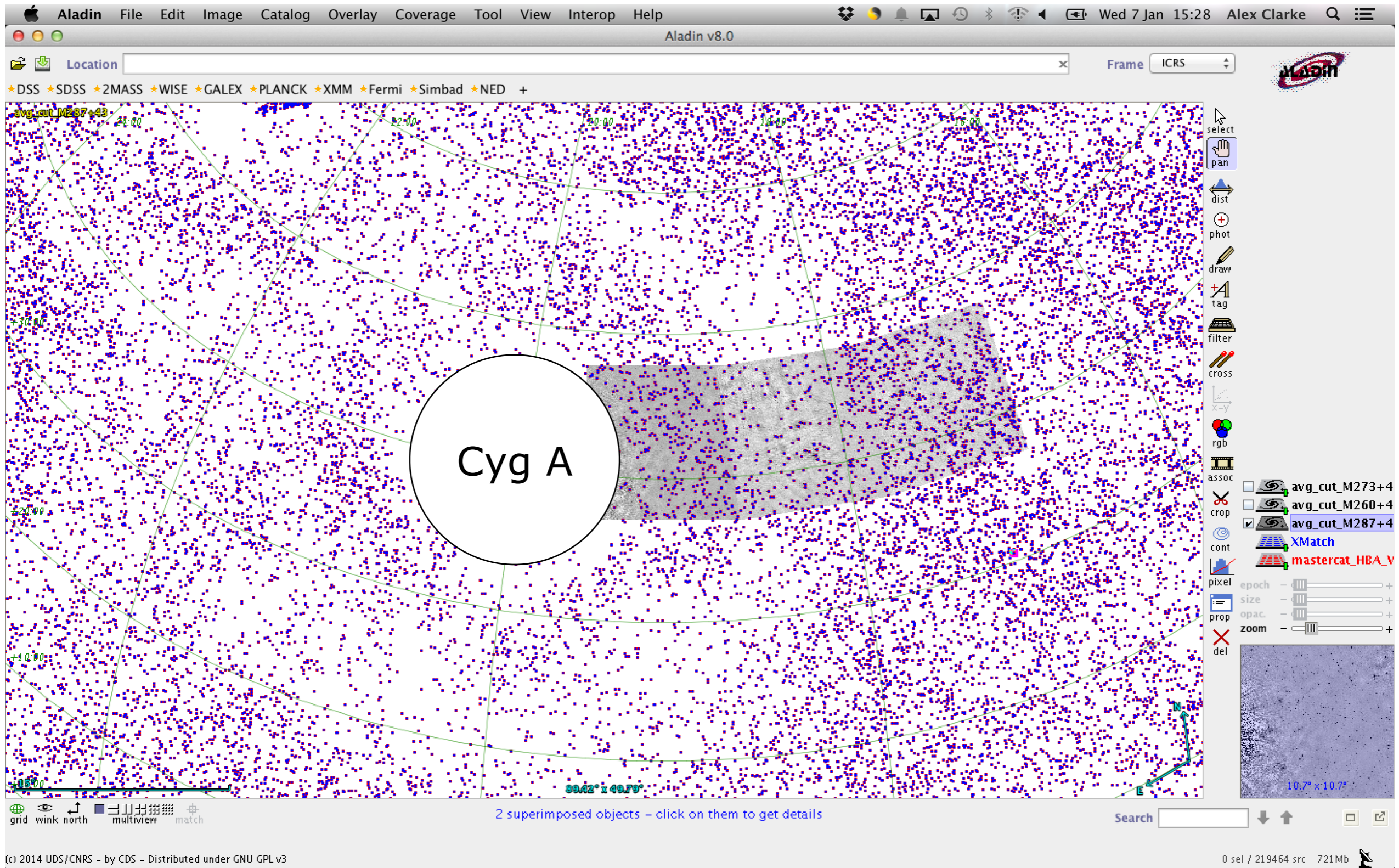
- All HBA mosaics now finalized!
 - UVmin inconsistencies fixed
 - striping fixed where possible
 - 214 mosaics (each ~ 100 sq deg), including enlarged NCP mosaic ($\text{dec} \geq 79^\circ$)
 - variable mosaic frame size with declination for easy stitching
- Huge quality control effort undertaken during end of 2014
 - **PARTICULAR THANKS** to Alex Clarke for a lot of work and very effective coordination...
 - ... and to the rest of the Quality Control team:
Georgi Kokotanekov, Jonas Trüstedt, & Błażej Nikiel-Wroczyński



- Mosaics completed; most in good shape after a great deal of quality control in the MSSS team
- First catalog in hand: a little more than 100,000 sources



- Rudimentary demixing strategy not ideal (as expected)



- Top priority: fix flux scale (see LSMs: 1 Oct and 26 Nov 2014)
 - for MSSS: post-hoc scalar correction
 - for 'normal' imaging applications: fix in beam model
- Populate postage stamp server with images and catalogs
 - through <http://msss.astron.nl> web portal
- Continue to push early science projects
 - coordination telecon with science working group leaders to be held soon (email coming this week)
 - efforts already underway in several groups
- Data release!