Advanced Aladin Miriam Cortés





Astronomy ESFRI & Research Infrastructure Cluster
ASTERICS - 653477

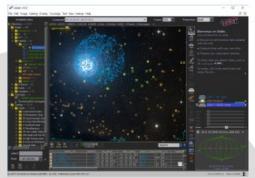


What's new in release V10?

Discovery data tree

Integrated access to all CDS and other VO collections (>20,000 data sets)...





New look & feel

Modern and compact layout...





ALADIN

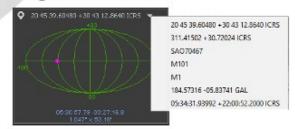
Access selector

Choose among all available access modes and derived products ...

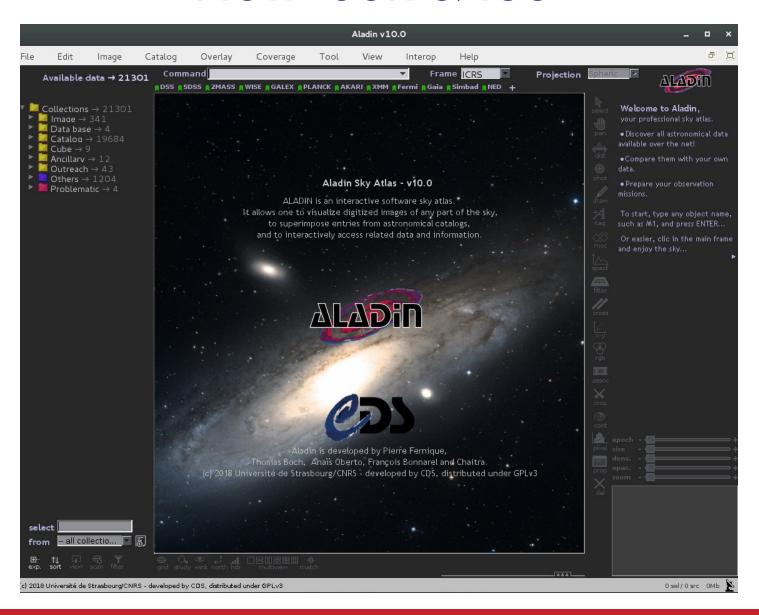


Target history controler

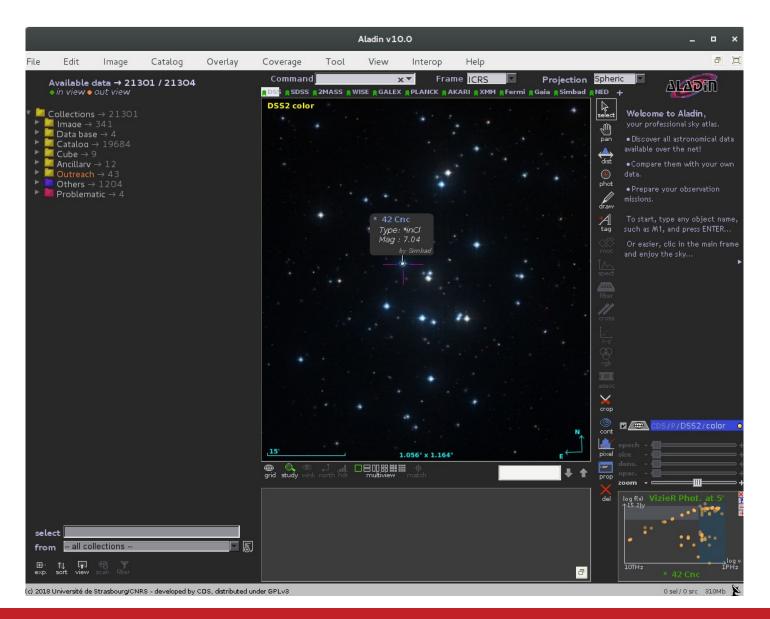
Come back to a previous target, command...



New look & feel



Simbad & Vizier info



CDS X-match

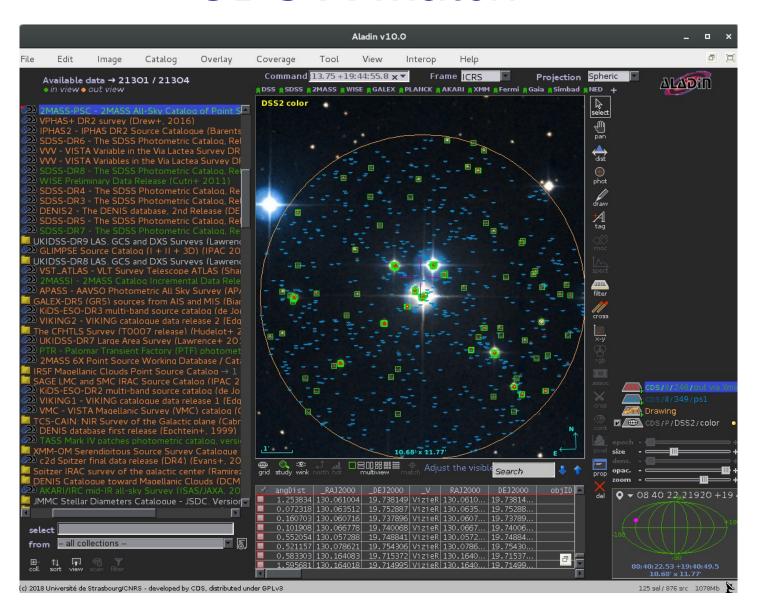


Image / Mosaic builder

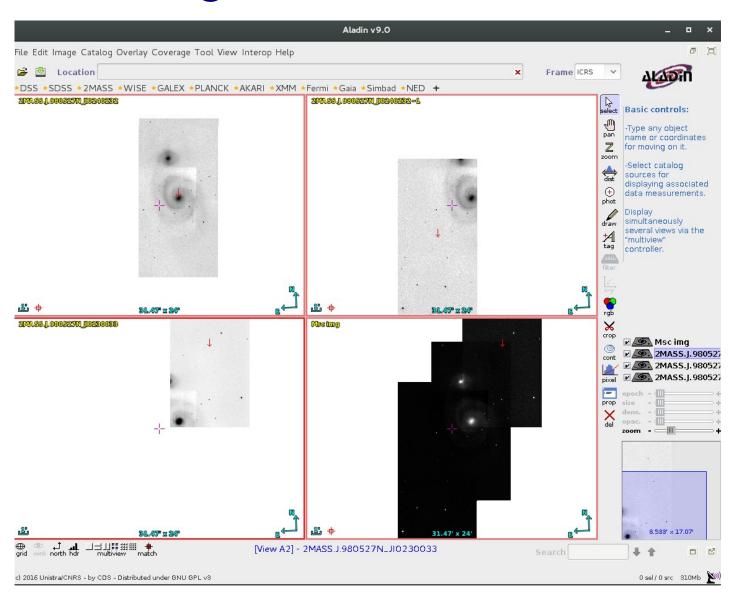


Image / Arithmetic operation

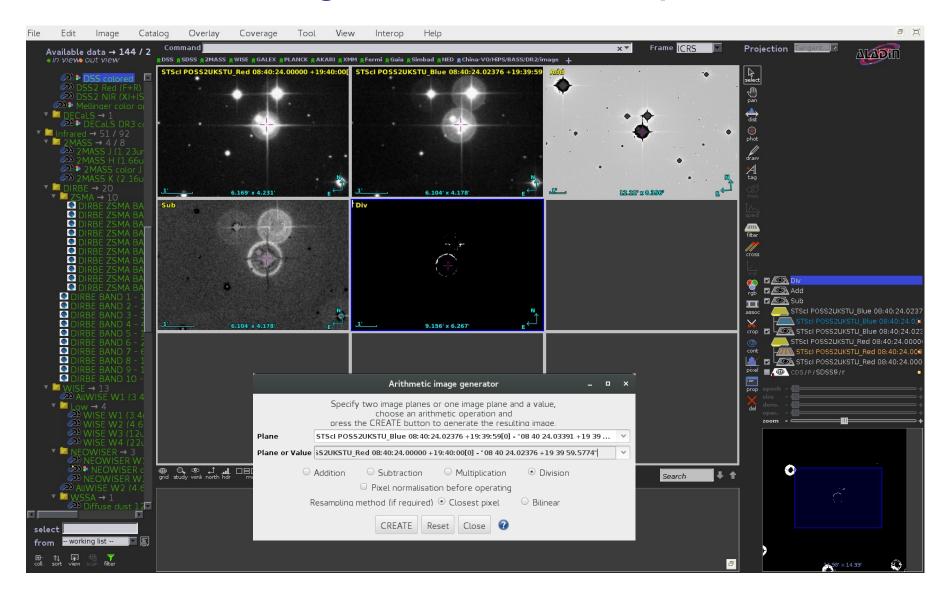
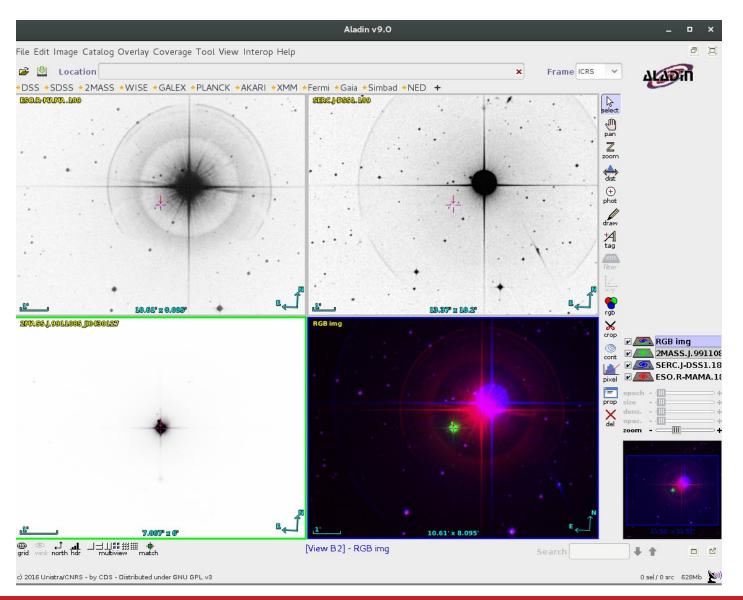
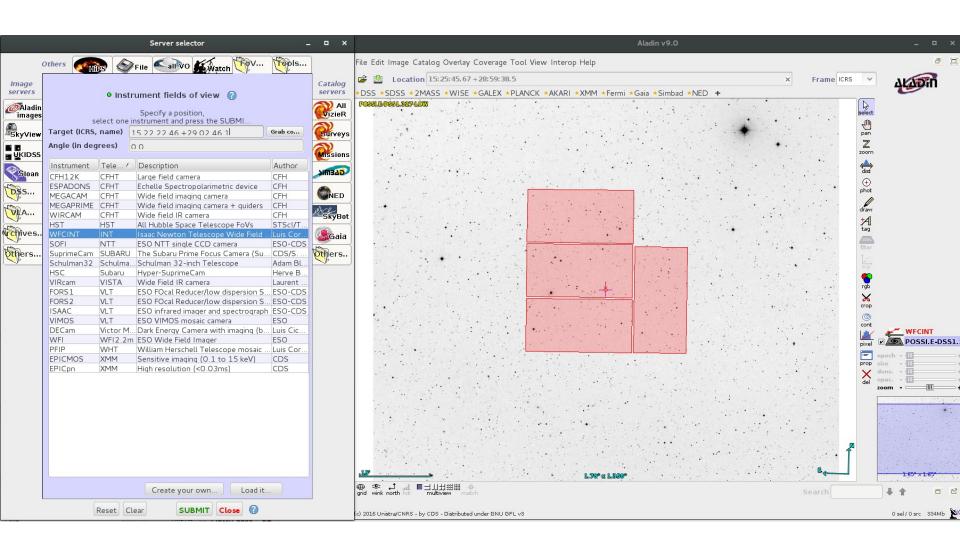


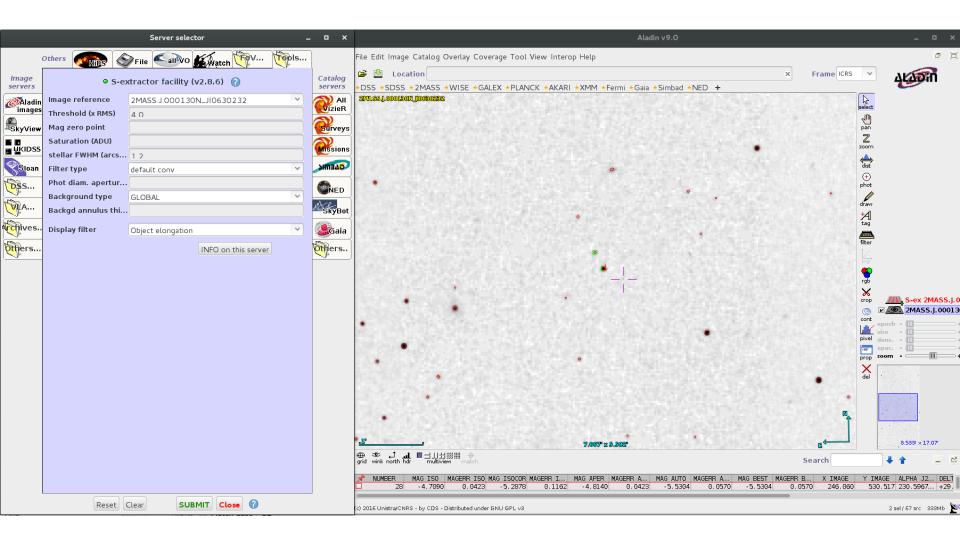
Image / RGB builder



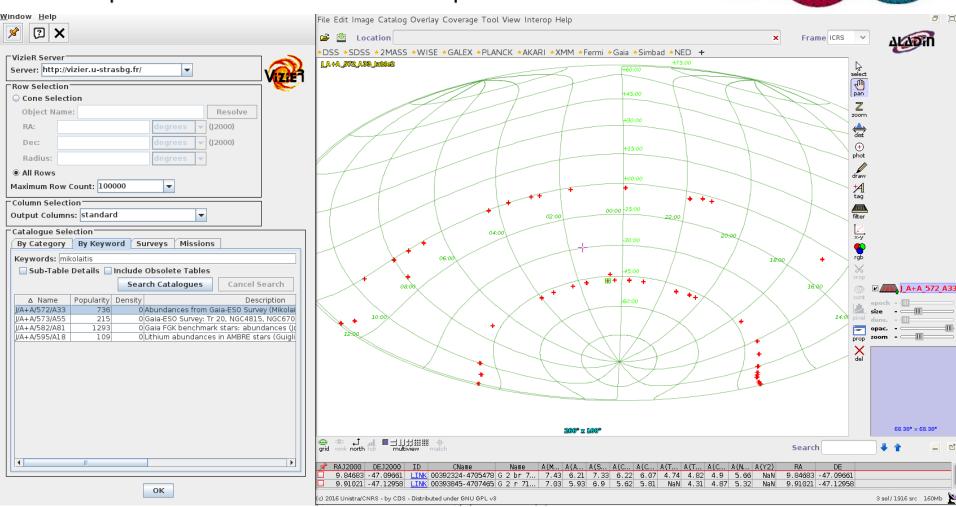
File / Load instrument FoV



Tools / Remote tools/Tools / Sextractor



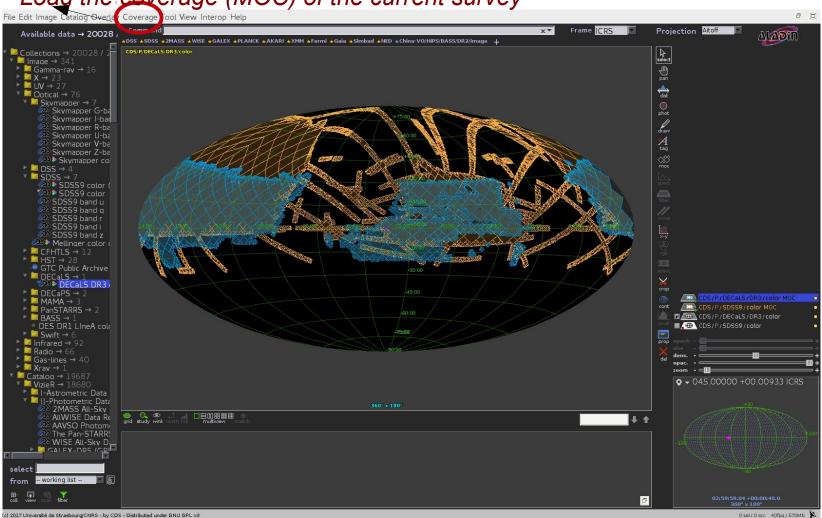
- Multi-object coverage (MOC): Method for describing sky regions
- Based on Healpix (list of HEALPIX cells stored in a FITS binary table)
 - Equal-area cells & isolatitude → Speed.



MOC

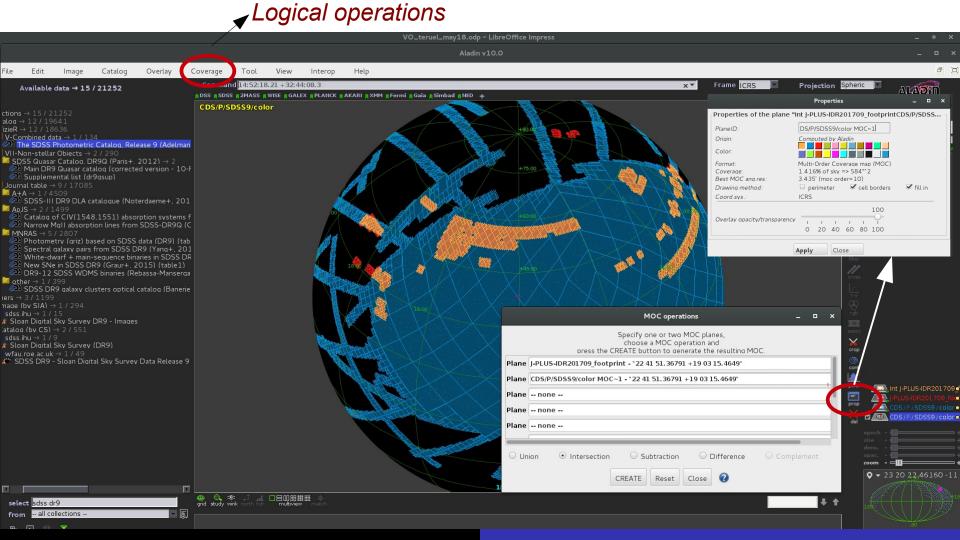
How to know the area in common between two surveys?

Load the coverage (MOC) of the current survey



Case #4: Aladin

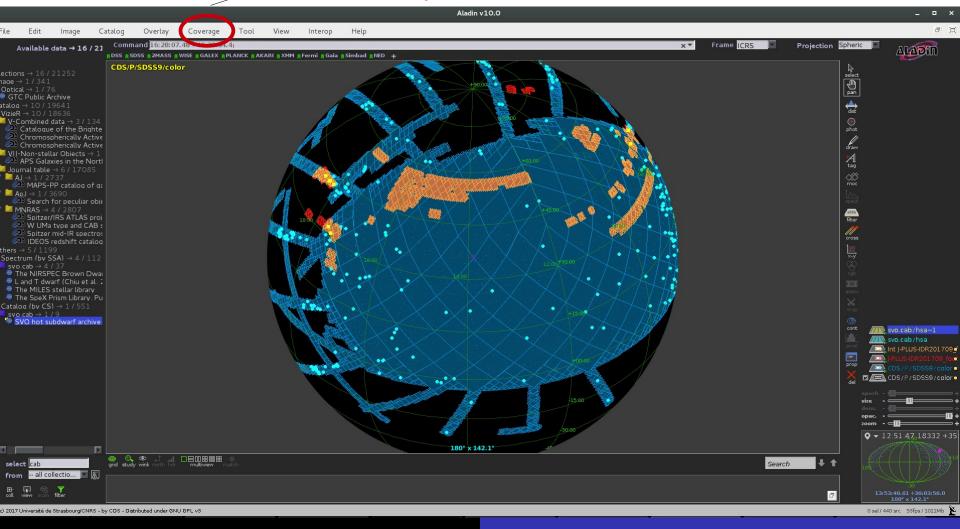
How to know the area in common between two surveys?



Case #4: Aladin

How to know the area in common between two surveys?

→ Filter a table by MOC



HIPS

- Hierarchical Progressive Survey
- Visualize a survey "a la Google maps".
- Multi-scale view of images with capability to zoom and pan on any region.

Astronomy & Astrophysics manuscript no. Fernique_Allen_04May2015

Hierarchical progressive surveys

Multi-resolution HEALPix data structures for astronomical images, catalogues, and 3-dimensional data cubes

P. Fernique¹, M. G. Allen¹, T. Boch¹, A. Oberto¹, F-X. Pineau¹, D. Durand², C. Bot¹, L. Cambrésy¹, S. Derriere¹, F. Genova¹, and F. Bonnarel¹

HIPS

