SIAV2 : which kind of problem it is adressing…

F.Bonnarel on behalf of the SIAV2 author group

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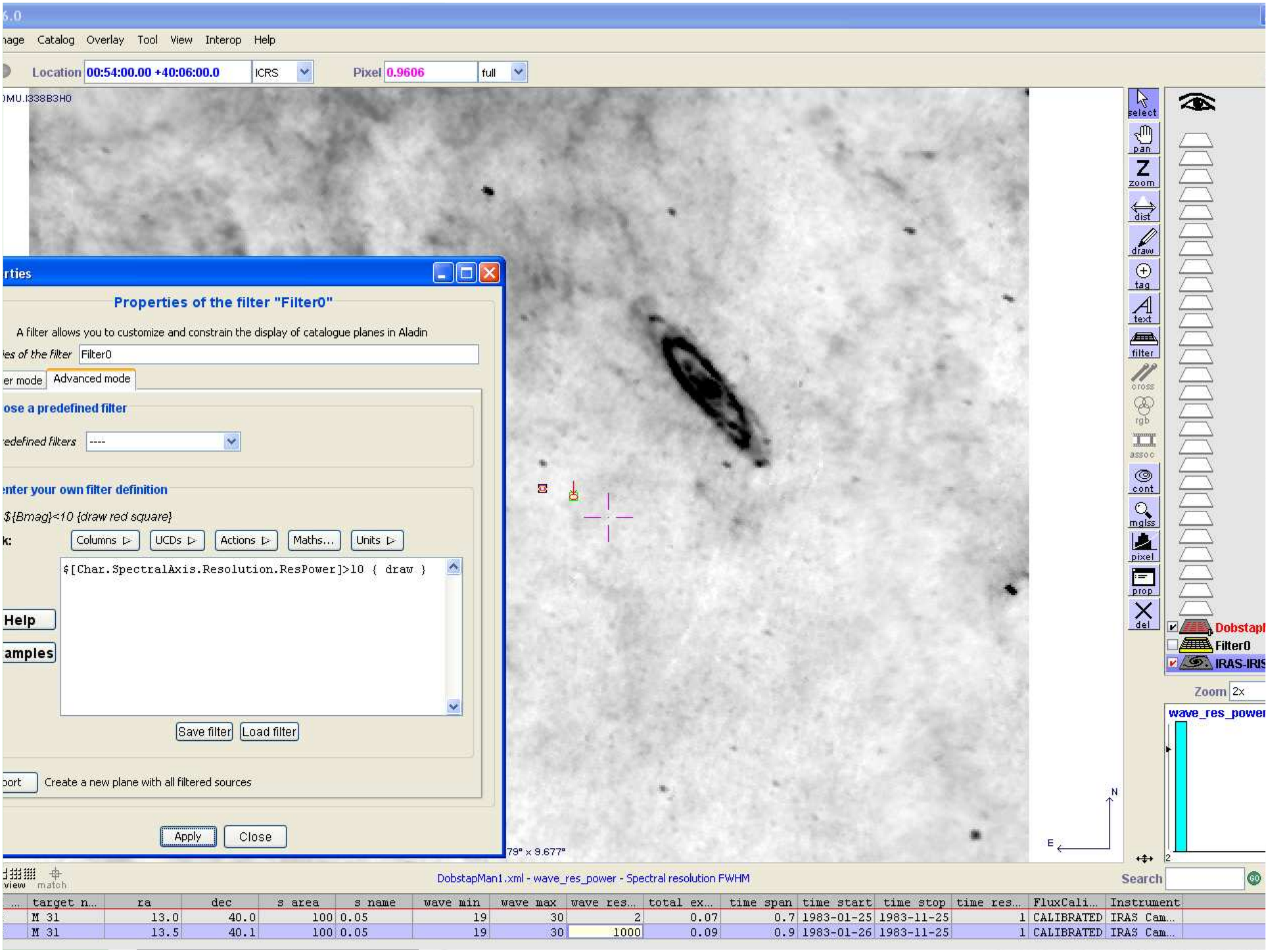
Comparison with ObsTAP/GDS

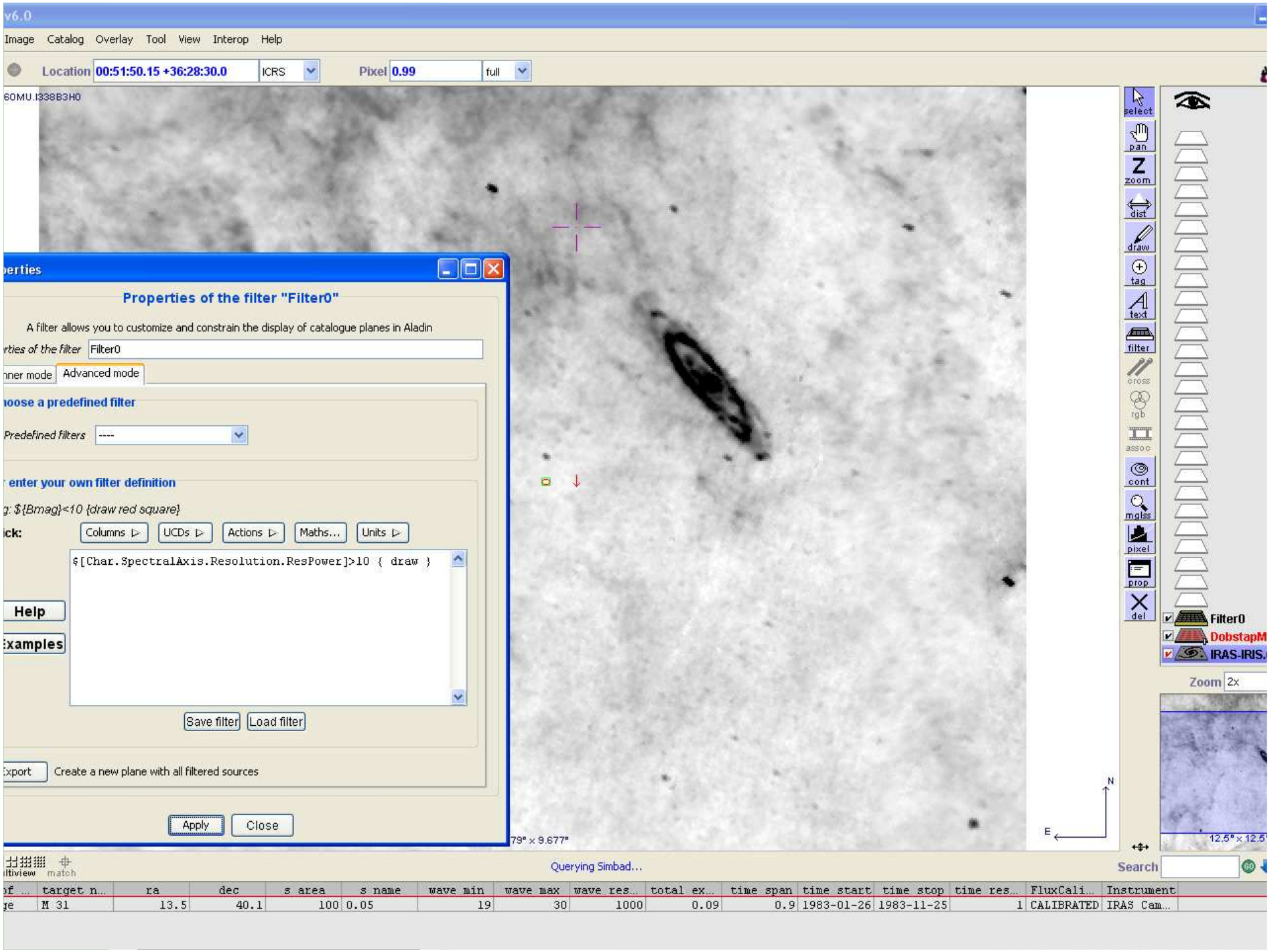
- ObsTAP allows for generic queries in ADQL
- ObsTAP has less metadata
- ObsTAP is not specialized for images
- ObsTAP has no peculiar method for Data Access
  - but GDS will have linkage for complex data and S*AP services
- Conclusion: ObsTAP comes first, SIAV2 may be second time query/acces

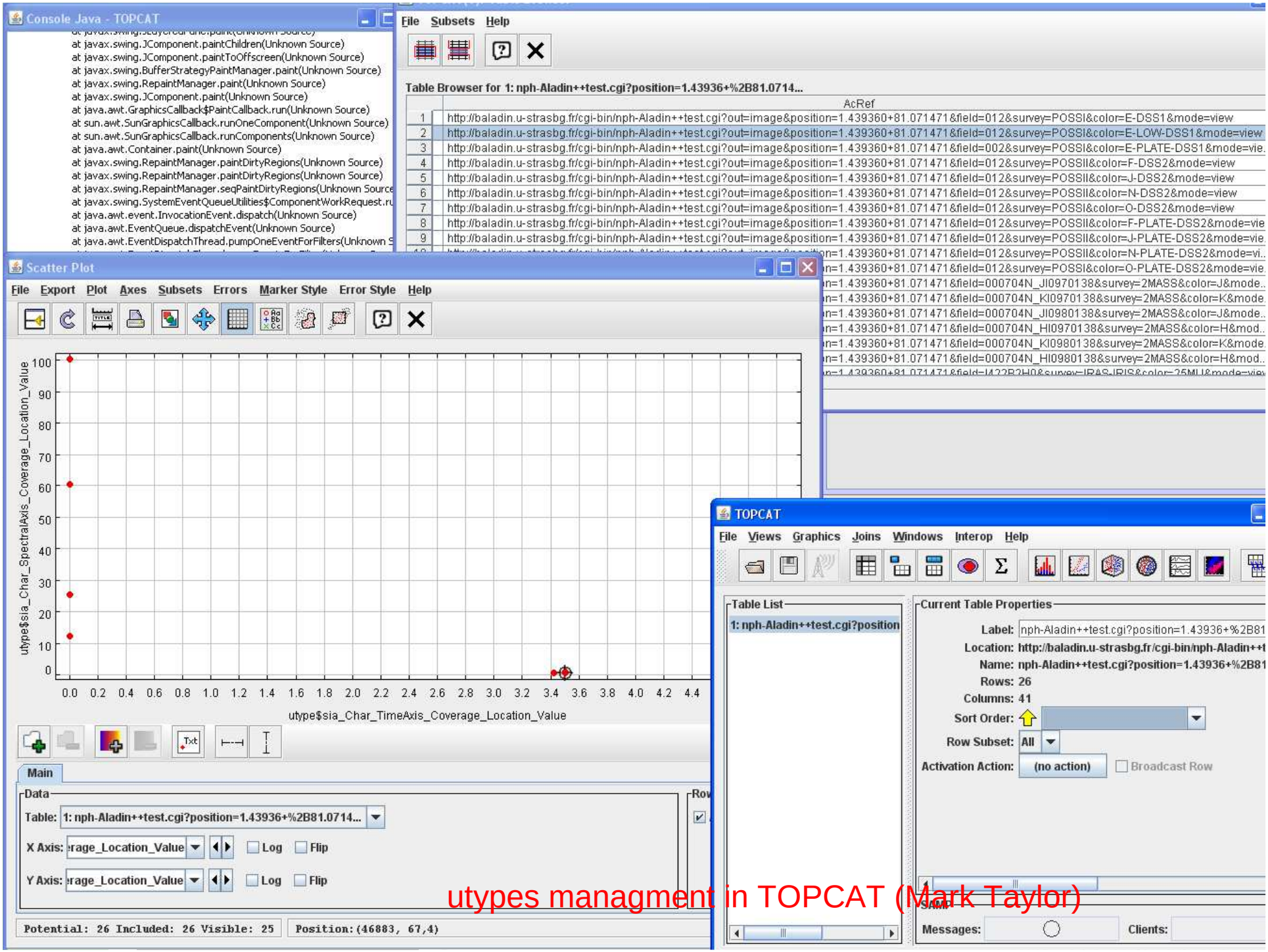
Doing more than SIA1

- Image description (data discovery)
  - Wavelength, Time can be sampled (= cubes).
  - Polarization being described
  - Curation and Creator available
  - Interoperable FIELDS (ucds, utypes)
- More Filtering (BAND, POL, TIME, intervals etc …)



target n...	ra	dec	s area	s name	wave min	wave max	wave res...	total ex...	time span	time start	time stop	time res...	FluxCali...	Instrument
M 31	13.0	40.0	100	0.05	19	30	2	0.07	0.7	1983-01-25	1983-11-25	1	CALIBRATED	IRAS Cam...
M 31	13.5	40.1	100	0.05	19	30	1000	0.09	0.9	1983-01-26	1983-11-25	1	CALIBRATED	IRAS Cam...

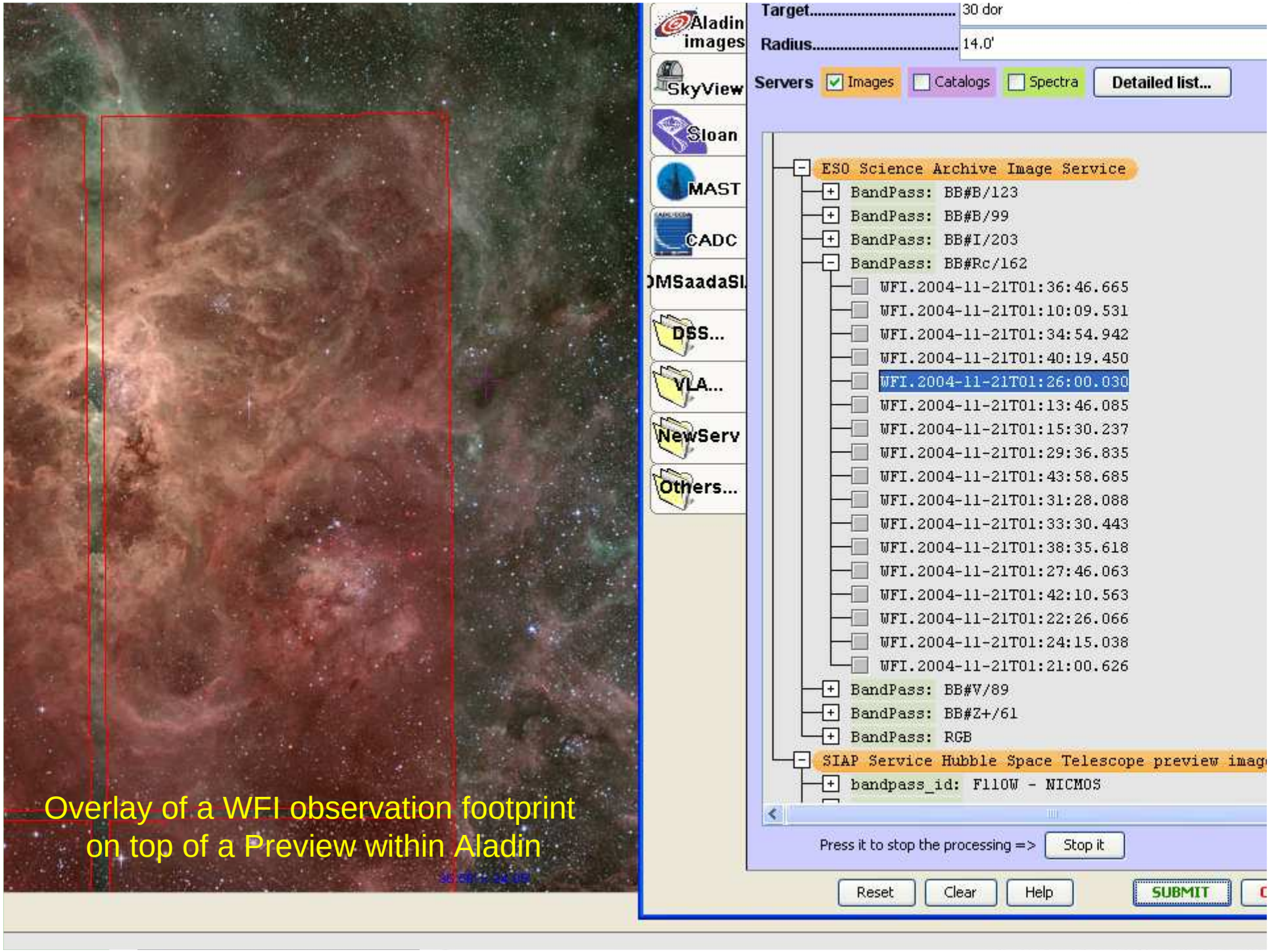

v6.0
Image Catalog Overlay Tool View Interop Help
Location 00:51:50.15 +36:28:30.0 ICRS
Pixel 0.99 full
Properties of the filter "Filter0"
A filter allows you to customize and constrain the display of catalogue planes in Aladin
Filter0
Advanced mode
Predefined filters
enter your own filter definition
Columns
UCDs
Actions
Maths...
Units
$[Char.SpectralAxis.Resolution.ResPower]>10 { draw }
Help
Examples
Save filter
Load filter
Create a new plane with all filtered sources
Apply
Close
select
pan
zoom
dist
draw
tag
text
filter
cross
rgb
assoc
cont
mgISS
pixel
prop
del
Filter0
Zoom 2x
Querying Simbad...
Search
target n... ra dec s area s name wave min wave max wave res... total ex... time span time start time stop time res... FluxCali... Instrument
M 31 13.5 40.1 100 0.05 19 30 1000 0.09 0.9 1983-01-26 1983-11-25 1 CALIBRATED IRAS Cam...



utypes managment in TOPCAT (Mark Taylor)

Standardized access to fov description

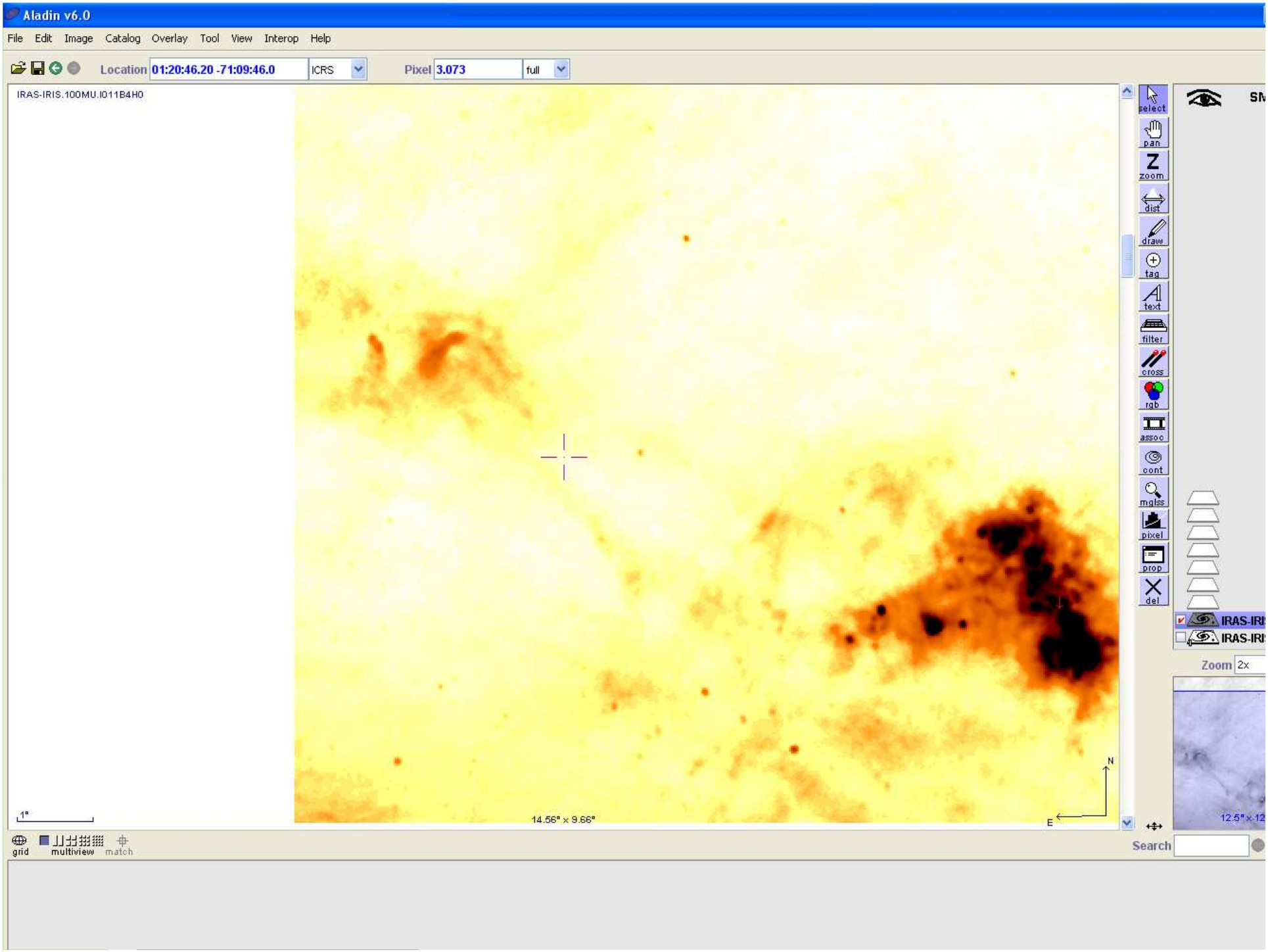
- Have observation field of views displayed on quickviews
- Fully interoperable with footprint services. (manipulate regions, see Tamas Talk)



Overlay of a WFI observation footprint on top of a Preview within Aladin

Accessing data

- Retrieving compressed data (ask for HCOMP or « rice » compression)
- Resampling data (eg IR or MW backgrounds)
- « snapshots » or massive small image services (asynchronous)
- Accessing full metadata for images and cubes:
  - (Observation DM metadata, proprietary Model metadata)


Aladin v6.0
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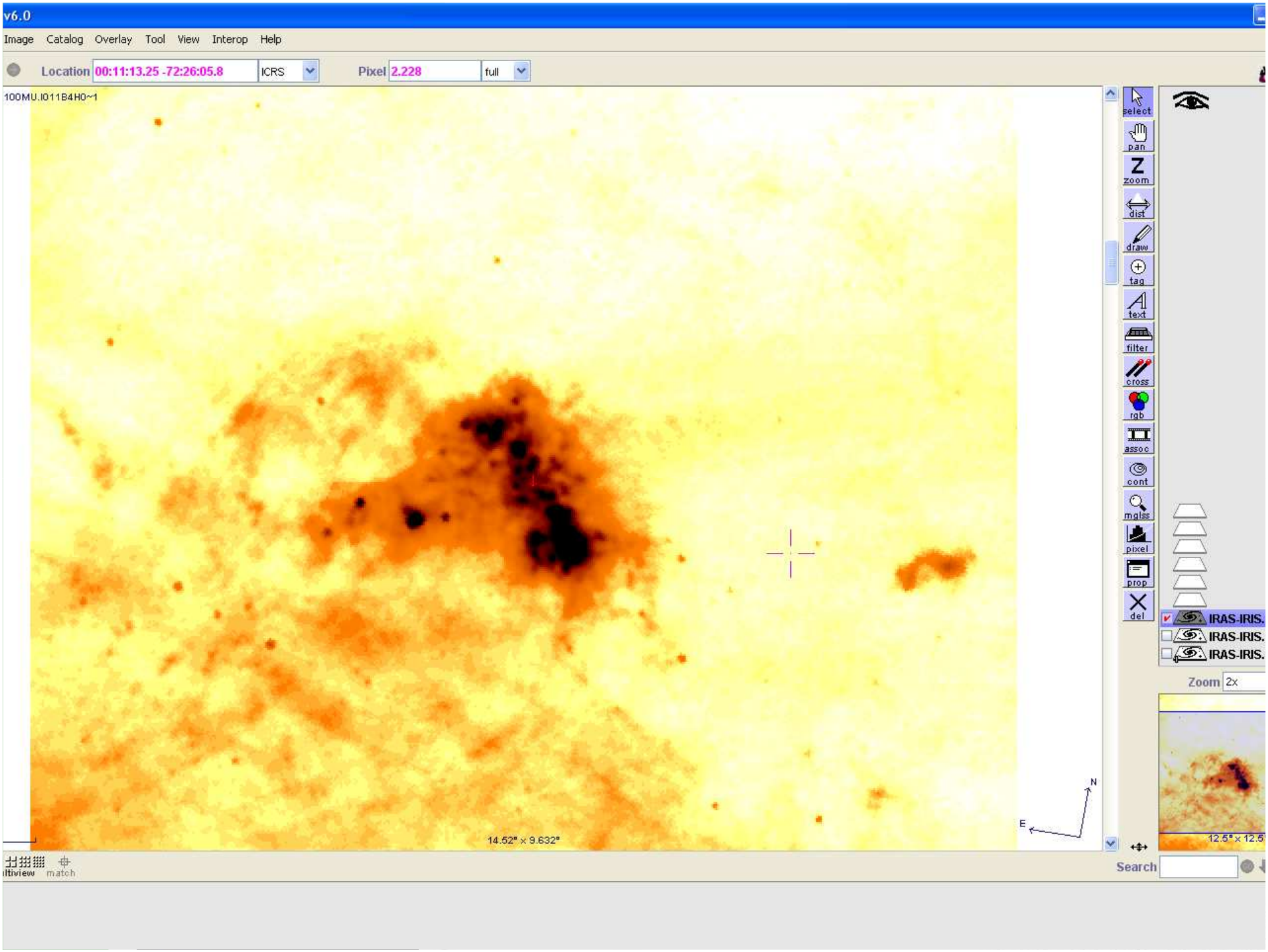
Pixel 3.073
full
IRAS-IRIS.100MU.I011B4H0
select
pan
zoom
dist
draw
tag
text
filter
cross
rgb
assoc
cont
mglss
pixel
prop
del
IRAS-IRI
IRAS-IRI
Zoom 2x
1°
14.56' x 9.66'
N
E
grid
multiview
match
Search


v6.0
Image Catalog Overlay Tool View Interop Help
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100MU.I011B4H0~1
select
pan
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rgb
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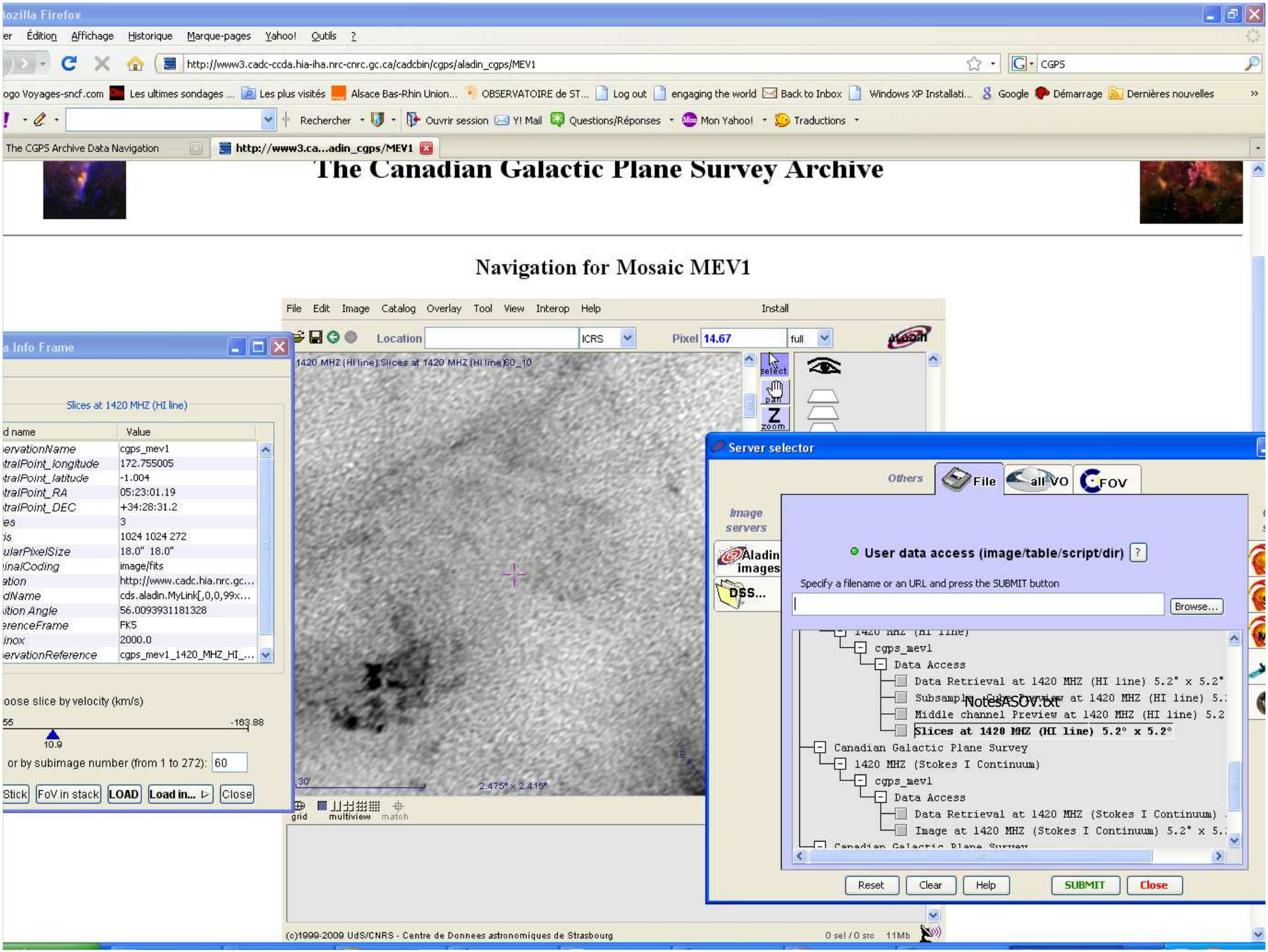
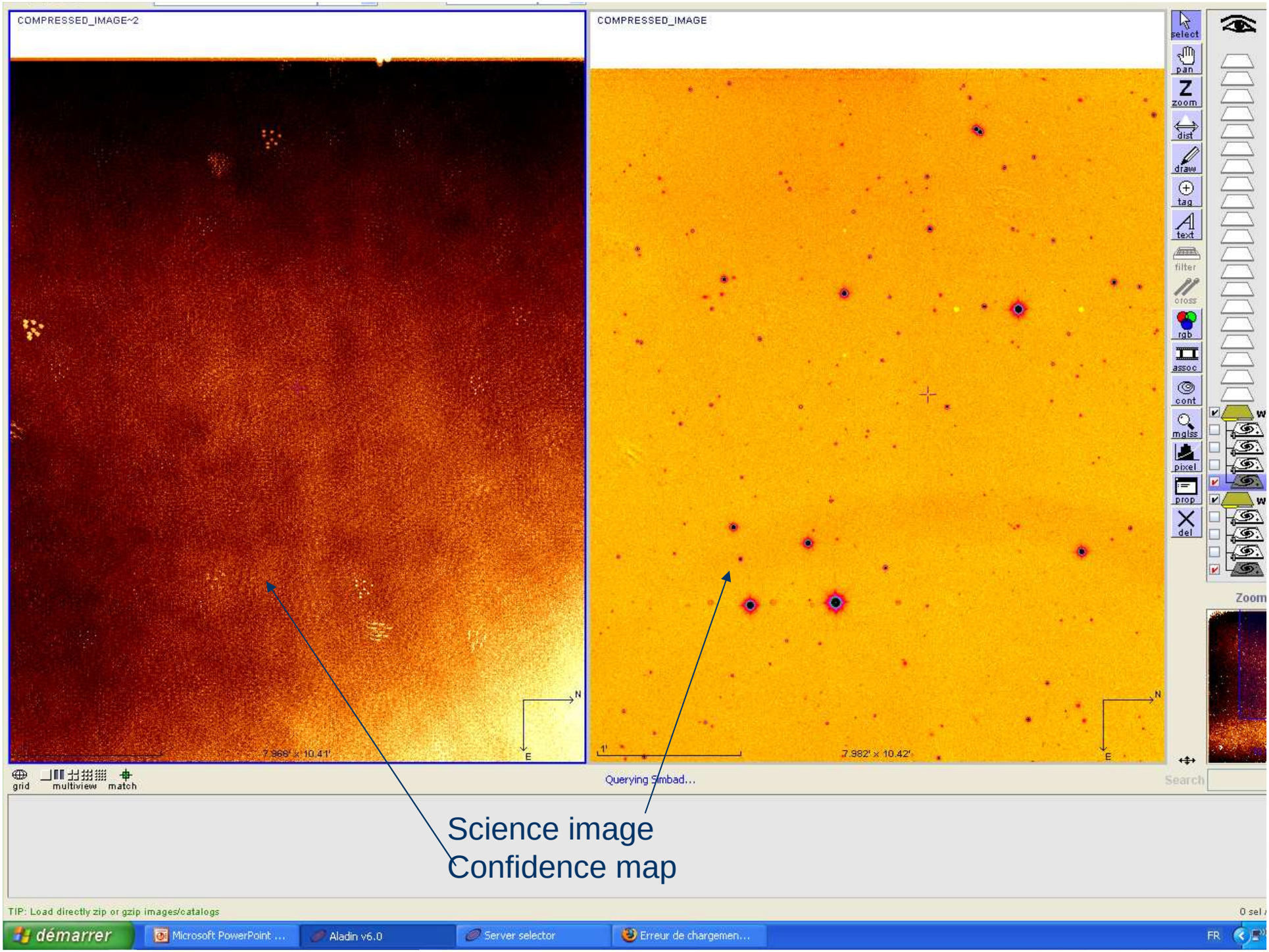
pixel
prop
del
IRAS-IRIS.
IRAS-IRIS.
IRAS-IRIS.
Zoom 2x
14.52' × 9.632'
12.5' × 12.5'
N
E
Search

More complex access cases

- Accessing auxiliary data :
  - (confidence maps, use case Richard McMahon)
  - Calibration data
  - Raw data
  - Elements of a mosaic
- Cutting out in Cubes


Mozilla Firefox
http://www3.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/cadcbin/cgps/aladin_cgps/MEV1
The CGPS Archive Data Navigation
The Canadian Galactic Plane Survey Archive
Navigation for Mosaic MEV1
Info Frame
Slices at 1420 MHZ (HI line)
Server selector
User data access (image/table/script/dir)
Specify a filename or an URL and press the SUBMIT button
Browse...
Data Retrieval at 1420 MHZ (HI line) 5.2° x 5.2°
Middle channel Preview at 1420 MHZ (HI line) 5.2
Slices at 1420 MHZ (HI line) 5.2° x 5.2°
Canadian Galactic Plane Survey
1420 MHZ (Stokes I Continuum)
Data Retrieval at 1420 MHZ (Stokes I Continuum)
Image at 1420 MHZ (Stokes I Continuum) 5.2° x 5.
Reset
Clear
Help
SUBMIT
Close
(c)1999-2009 UdS/CNRS - Centre de Donnees astronomiques de Strasbourg


COMPRESSED_IMAGE~2
COMPRESSED_IMAGE
Science image
Confidence map