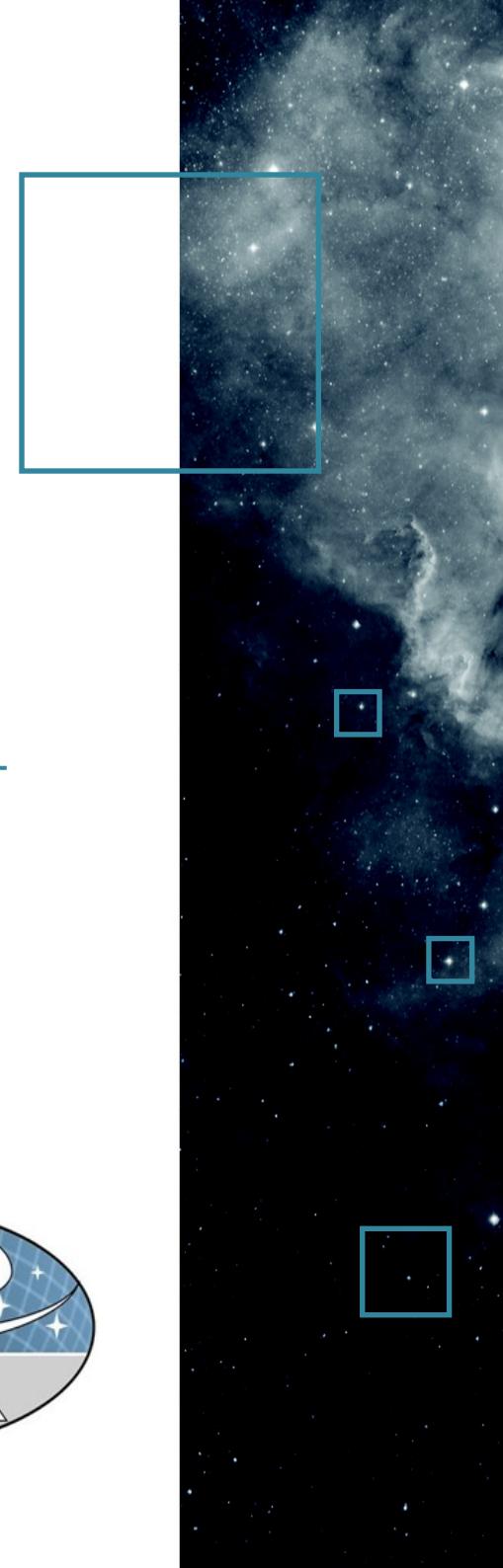


# ObsCore Radio extension CDS Proto demo

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F.Bonnarel



# CDS prototype demo (Dachs implementation) : 16 datasets from the SRCnetwork ObsCore service

Aladin v12.0 \*\*\* BETA VERSION (based on v12.033) \*\*\*

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Available data → 35210  
 • in view • outview

Command 04:48:26.62 +30:29:11.4  
 RDSS PanSTARRS SDSS 2MASS GALEX Gaia Simbad NED +  
 DSS2 color

**DSS2 color**

Aladin Java measurements frame

Search

obs collection	obs id
MKT-MGCLS	Abell 194 I
MKT-MGCLS	Abell 194 Q
MKT-MGCM	Galactic Centre 1284MHz-StokesI
MKT-MGCM	Galactic Centre alpha
MKT-FORNAX-S...	MKT-FORNAX-SURV t06 1km NGC1436 image mos
ASK-RACS-DR1	RACS-DR1 0128+00A
ASK-WALLABY	Eridanus cutout NGC1436
LOF-LOTSS-DR2	P39Hetdex19
Ape-DR1	200426041 AP B021
Ape-DR1	200426041 AP B021
VLA-VLASS	T10t02 J005000-023000.06.2048
VLA-VLASS	T10t02 J005000-023000.06.2048
SDC01	SDC01 SKAMid B2 1000h
SDC02	SDC02 SKAMid sky ldev v2
SDC03	SDC03 ZW3.msn

select  
 from -- all collections --

grid studywink redonorth hdr multiview match

epoch size dens. opac. zoom

obs\_id (13 items)

Server selector

Others File FOV... Tools...

SkyView Aladin Hips2fits Sloan DSS... Archives...

vo-proto-debian.cds.unistra.fr Mode: Generic

Construct your query, verify and execute.

Table: rucio.obscore Set ra, dec Join

Select: Constraints: Add new Max rows:  
 All

Target: 6024000 -02 15 16.848000 Radius: 180° CIRCLE Add

Refresh query Check.. SYNC Async jobs>>

SELECT TOP 9999 \* FROM rucio.obscore

Reset Clear SUBMIT Close ?

http://ve-proto.d...

CDS/P/DSS2/...

epoch size dens. opac. zoom

obs\_id (13 items)

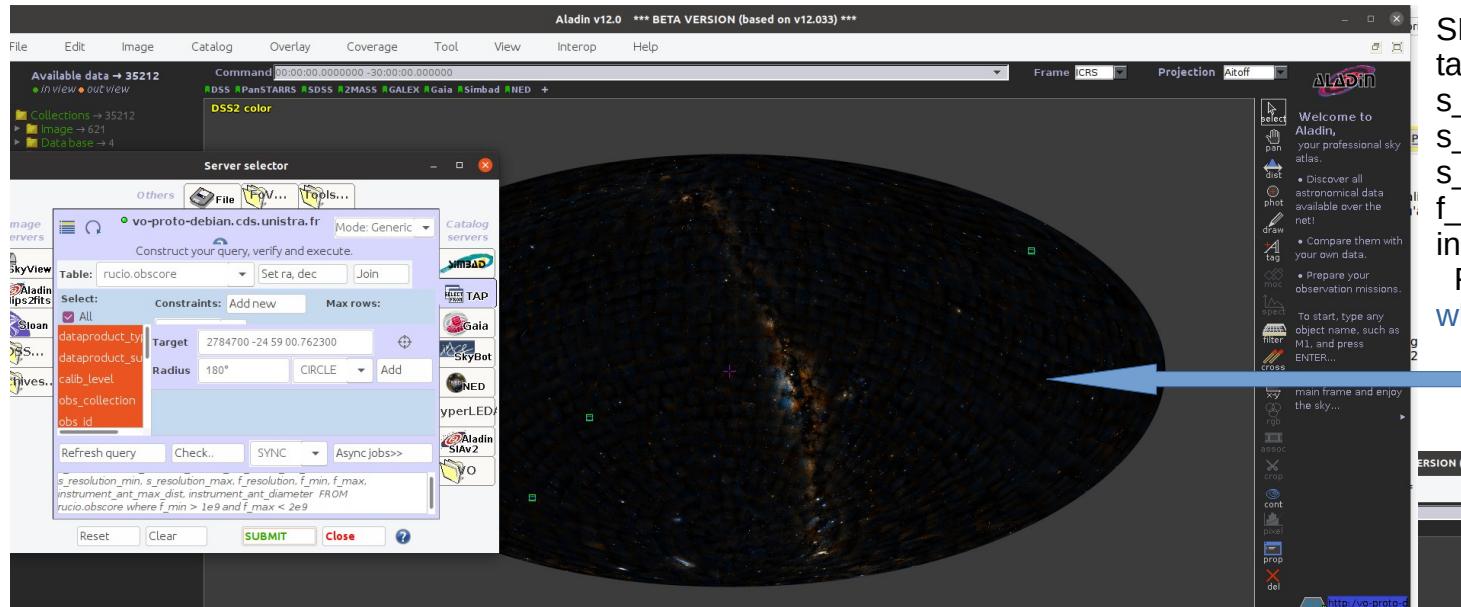
270.9° x 177.2°

Fichier Édition Affichage Historique Marque-pages Outils Aide

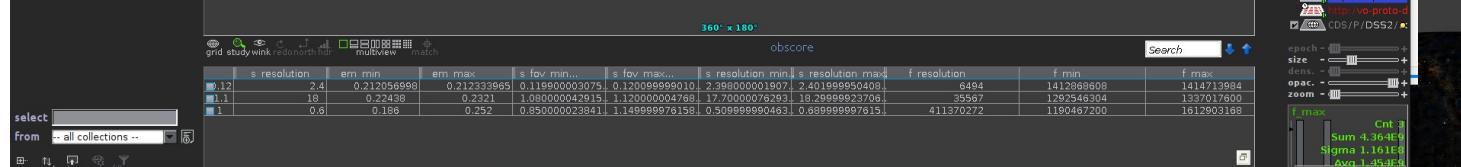
CDS prototype demo (Dachs implementation) :

frequency between 1 and 2 Ghz (upper left - 3 results)

freq. between 1 and 2 Ghz and spectral resolution better than 100 Mhz (lower right – 2 results)



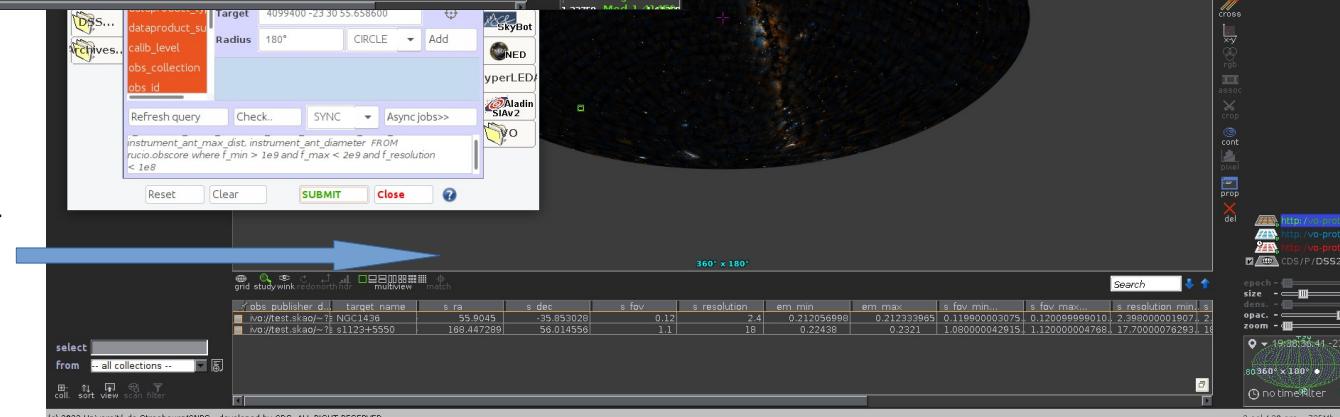
```
SELECT obs_publisher_id,  
target_name, s_ra, s_dec, s_fov,  
s_resolution, em_min, em_max,  
s_fov_min, s_fov_max, s_resolution_min,  
s_resolution_max, f_resolution, f_min,  
f_max, instrument_ant_max_dist,  
instrument_ant_diameter  
FROM rucio.obscore  
where f_min > 1e9 and f_max < 2e9
```



```
SELECT obs_publisher_did, target_name, s_ra,  
s_dec, s_fov, s_resolution, em_min, em_max,  
s_fov_min, s_fov_max, s_resolution_min,  
s_resolution_max, f_resolution, f_min, f_max,  
instrument_ant_max_dist, instrument_ant_diameter
```

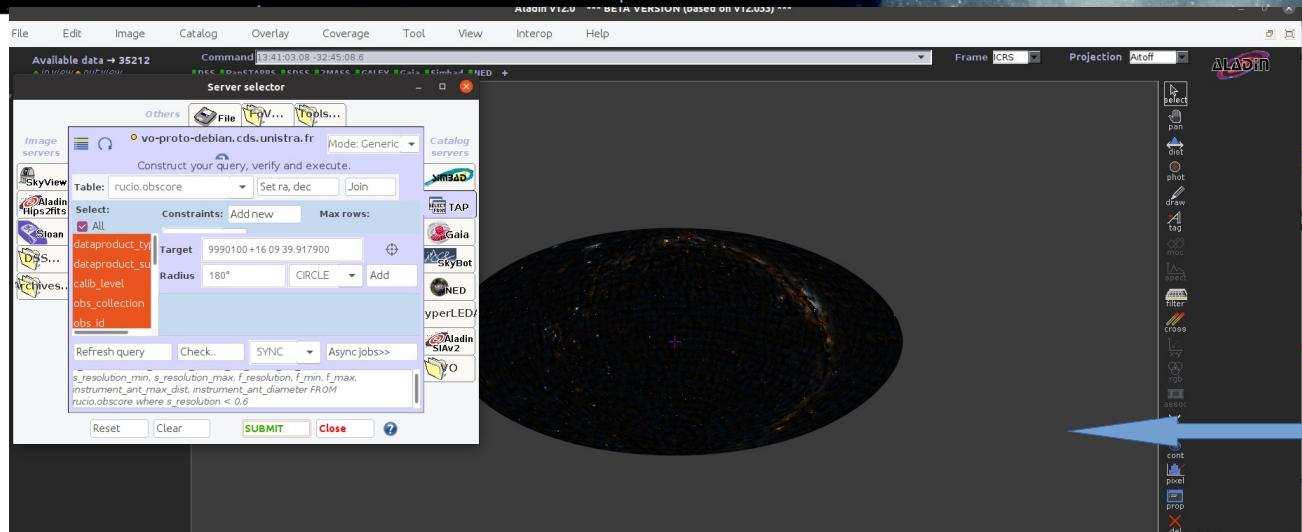
FROM rucio.obscore

where  $f_{\min} > 1e9$  and  $f_{\max} < 2e9$   
and  $f_{\text{resolution}} < 1e8$



# CDS prototype demo (Dachs implementation) :

s\_resolution better than 0.6 arcsec (upper left - no result)  
 s\_resolution\_min better than 0.6 arcsec(lower right - 1 result)



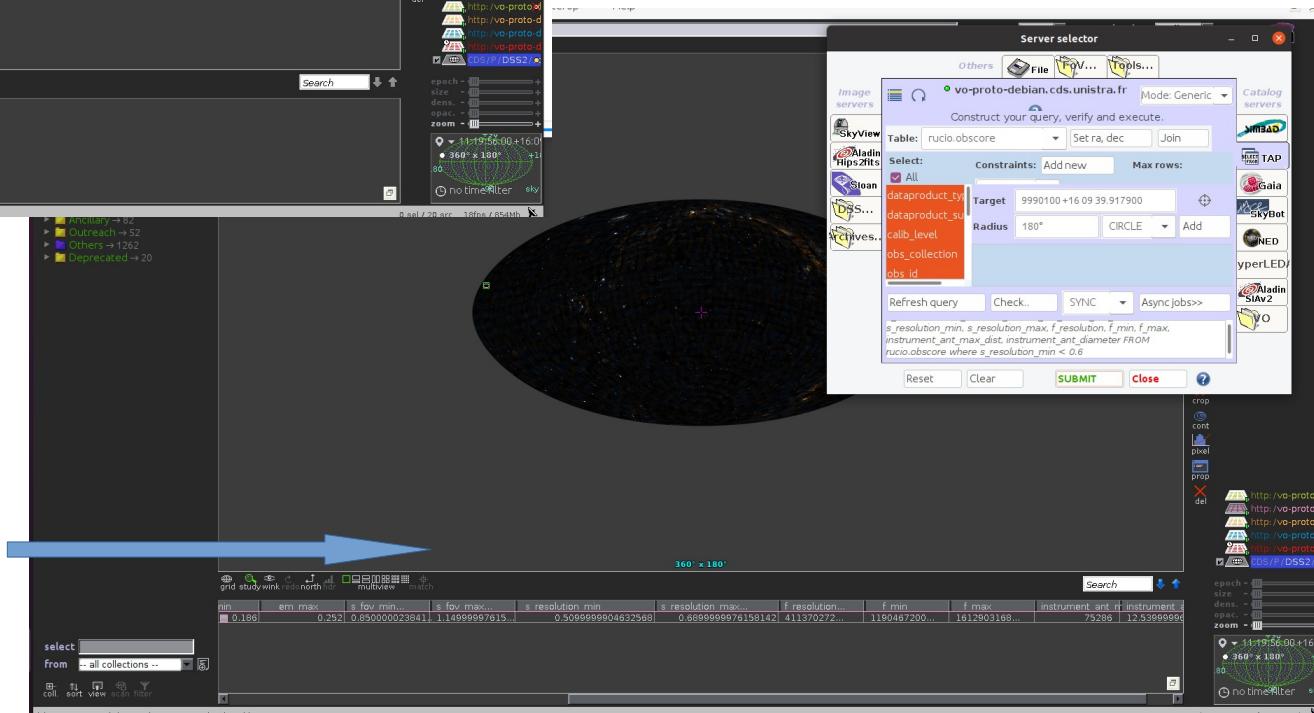
```
SELECT obs_publisher_id,
target_name, s_ra, s_dec, s_fov,
s_resolution, em_min, em_max,
s_fov_min, s_fov_max, s_resolution_min,
s_resolution_max, f_resolution, f_min,
f_max, instrument_ant_max_dist,
instrument_ant_diameter
FROM rucio.obscore
where s_resolution < 0.6
```



```
SELECT obs_publisher_id, target_name, s_ra,
s_dec, s_fov, s_resolution, em_min, em_max,
s_fov_min, s_fov_max, s_resolution_min,
s_resolution_max, f_resolution, f_min, f_max,
instrument_ant_max_dist, instrument_ant_diameter
FROM rucio.obscore
where s_resolution_min < 0.6
```

```
SELECT obs_publisher_id, target_name, s_ra,
s_dec, s_fov, s_resolution, em_min, em_max,
s_fov_min, s_fov_max, s_resolution_min,
s_resolution_max, f_resolution, f_min, f_max,
instrument_ant_max_dist, instrument_ant_diameter
FROM rucio.obscore
where s_resolution_min < 0.6
```

→ At least some part of the dataset has a resolution better than 0.6 arcsec



# CDS prototype demo (Dachs implementation) :

s\_fov larger than 7.5 deg (upper left – two results)

s\_fov\_min larger than 7.5 deg(lower right – 1 result)

The screenshot shows two separate queries in the Aladin interface, each with a blue arrow pointing from its query window to the corresponding result in the main map view.

**Query 1 (Upper Left):**

```
SELECT obs_publisher_id, target_name, s_ra, s_dec, s_fov, s_resolution, em_min, em_max, s_fov_min, s_fov_max, s_resolution_min, s_resolution_max, f_resolution, f_min, f_max, instrument_ant_max_dist, instrument_ant_diameter
FROM rucio.obscore
where s_fov > 7.5 deg
```

**Query 2 (Lower Right):**

```
SELECT obs_publisher_id, target_name, s_ra, s_dec, s_fov, s_resolution, em_min, em_max, s_fov_min, s_fov_max, s_resolution_min, s_resolution_max, f_resolution, f_min, f_max, instrument_ant_max_dist, instrument_ant_diameter
FROM rucio.obscore
where s_fov_min > 7.5
```

**Aladin Interface Details:**

- Left Panel:** Shows the "Available data" tree with various collections like Image, Gamma-ray, X-ray, UV, Optical, Infrared, Radio, and Catalog.
- Top Bar:** File, Edit, Image, Catalog, Overlay, Coverage, Tool, View, Interop, Help.
- Server Selector:** Set to "vo-proto-debian.cds.unistra.fr" mode "Generic".
- Result View:** Displays a map of the sky with several green dots representing the results of the queries.
- Bottom Panel:** Includes a table viewer showing the selected data rows and a command line interface for further querying.