ObsCore Radio extension
CDS Proto demo

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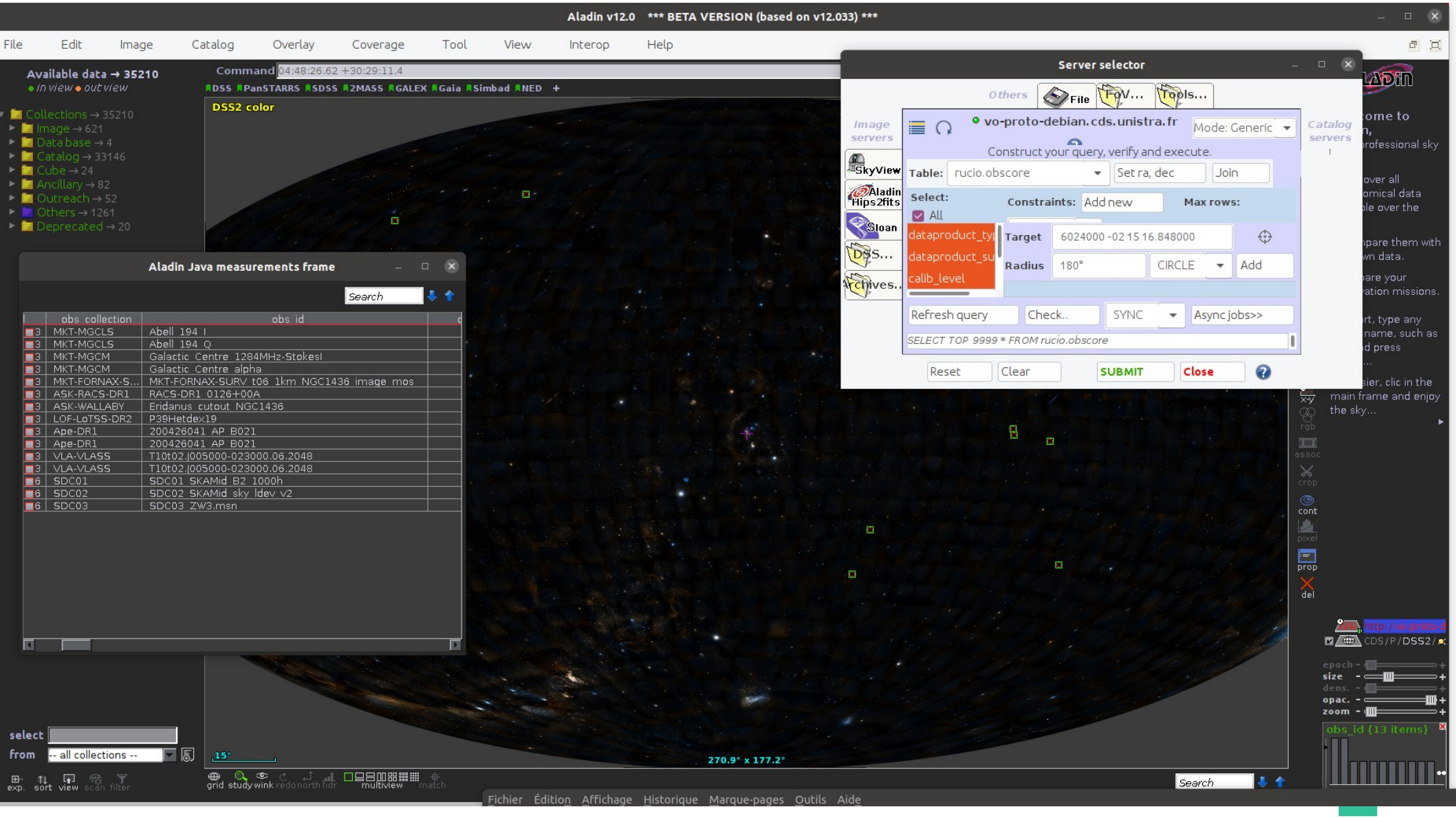
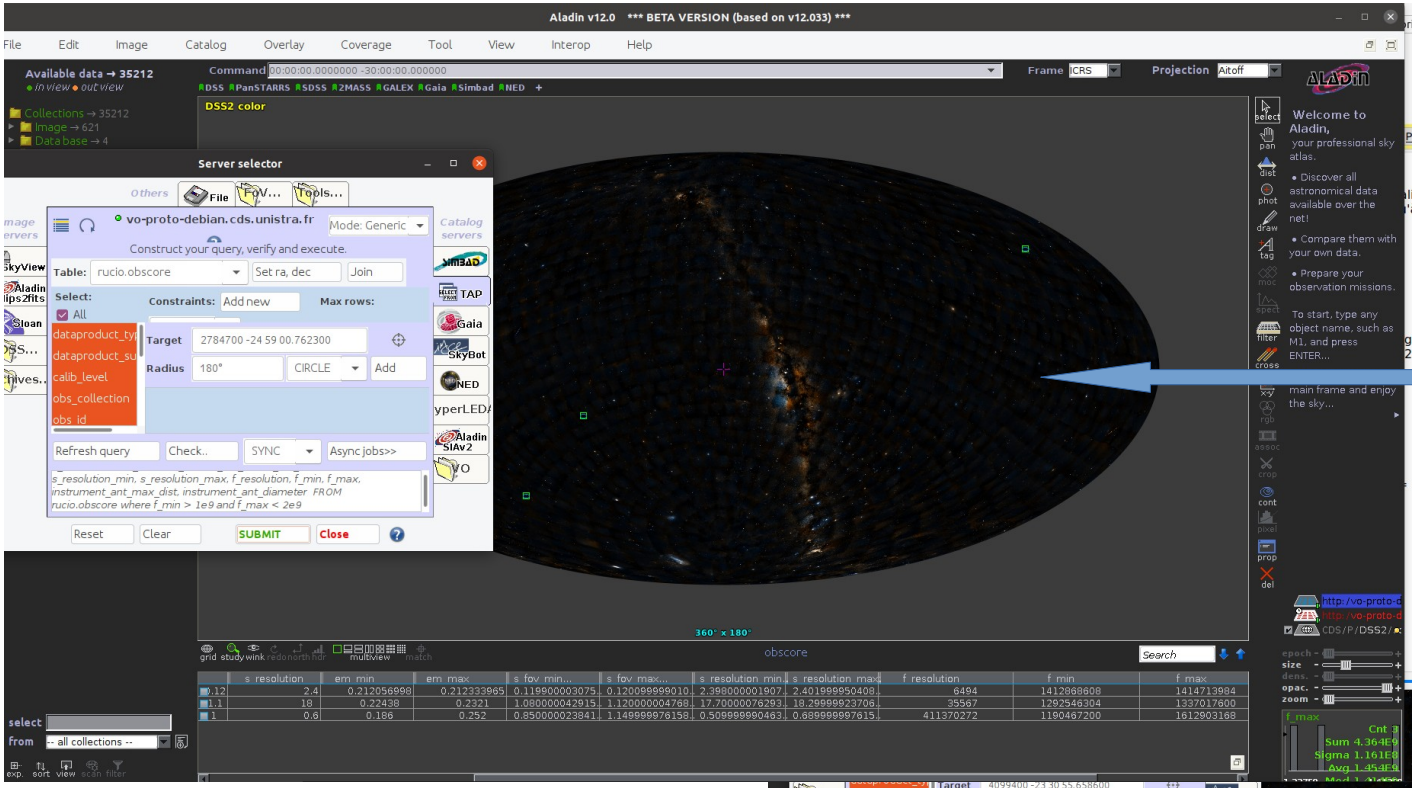
CDS prototype demo (Dachs implementation) :
16 datasets from the SRCnetwork ObsCore service



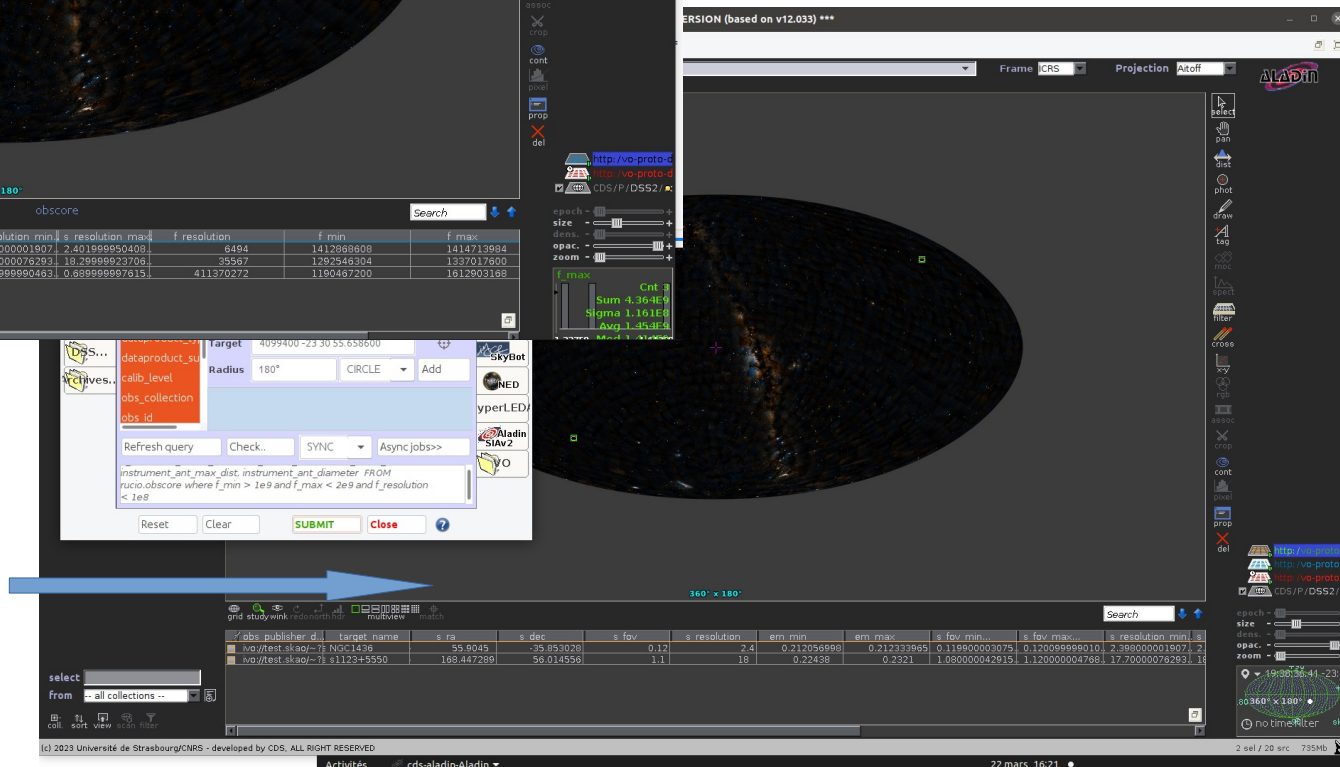
CDS prototype demo (Dachs implementation) :

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)



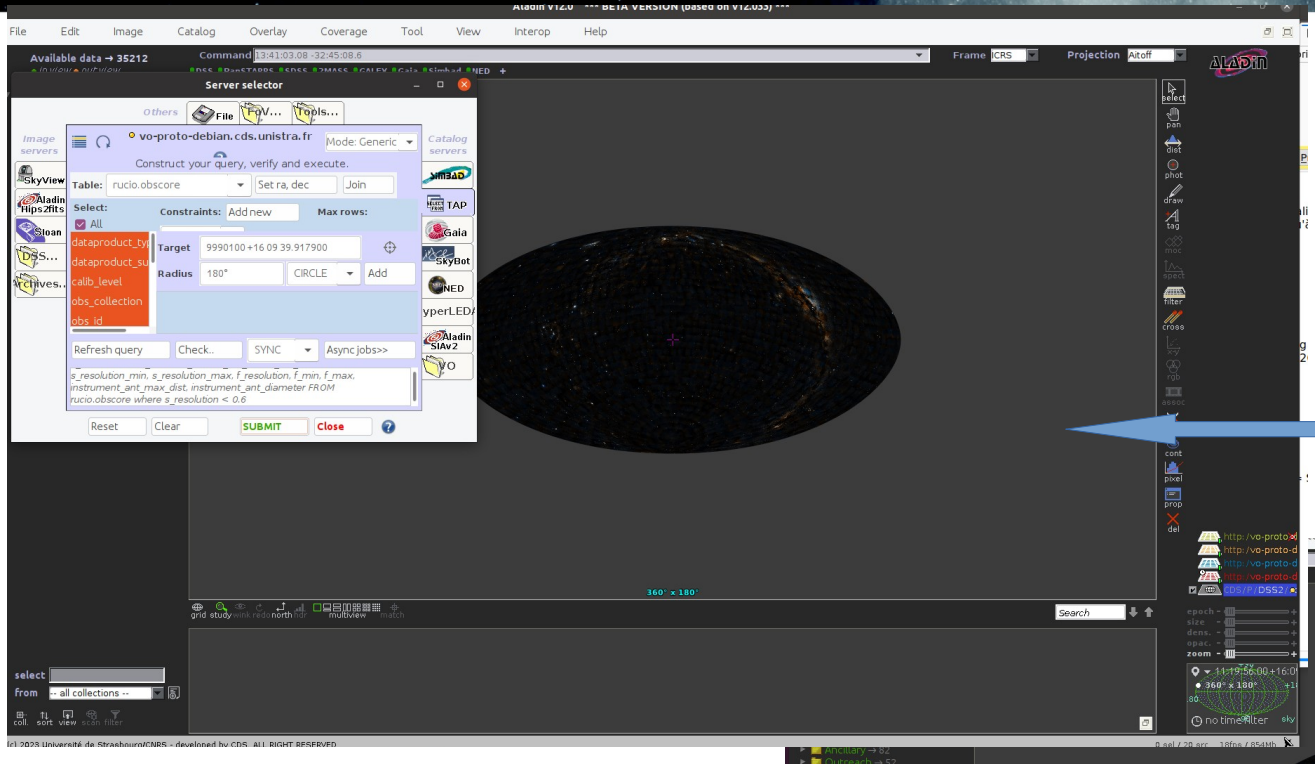
SELECT obs_publisher_did, target_name, s_ra, s_dec, s_fov, s_resolution, em_min, em_max, s_fov_min, s_fov_max, s_resolution_min, s_resolution_max, f_resolution, f_min, f_max, instrument_ant_max_dist, instrument_ant_diameter
FROM rucio.obscore
where f_min > 1e9 and f_max < 2e9



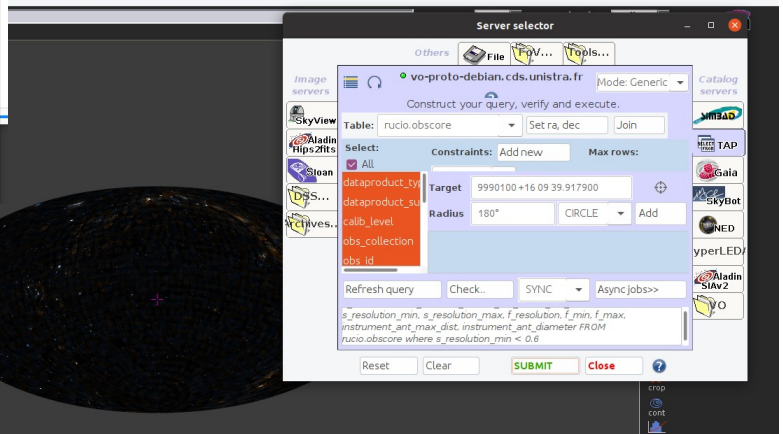
SELECT obs_publisher_did, target_name, s_ra, s_dec, s_fov, s_resolution, em_min, em_max, s_fov_min, s_fov_max, s_resolution_min, s_resolution_max, f_resolution, f_min, f_max, instrument_ant_max_dist, instrument_ant_diameter
FROM rucio.obscore
where f_min > 1e9 and f_max < 2e9
and f_resolution < 1e8

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_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 s_resolution < 0.6



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 s_resolution_min < 0.6

→ At least some part of the datsaset 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)

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 s_fov > 7.5 deg

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 s_fov_min > 7.5

→all channels of the dataset have a field of view larger than 7.5