



VAO prototype integration inside Aladin

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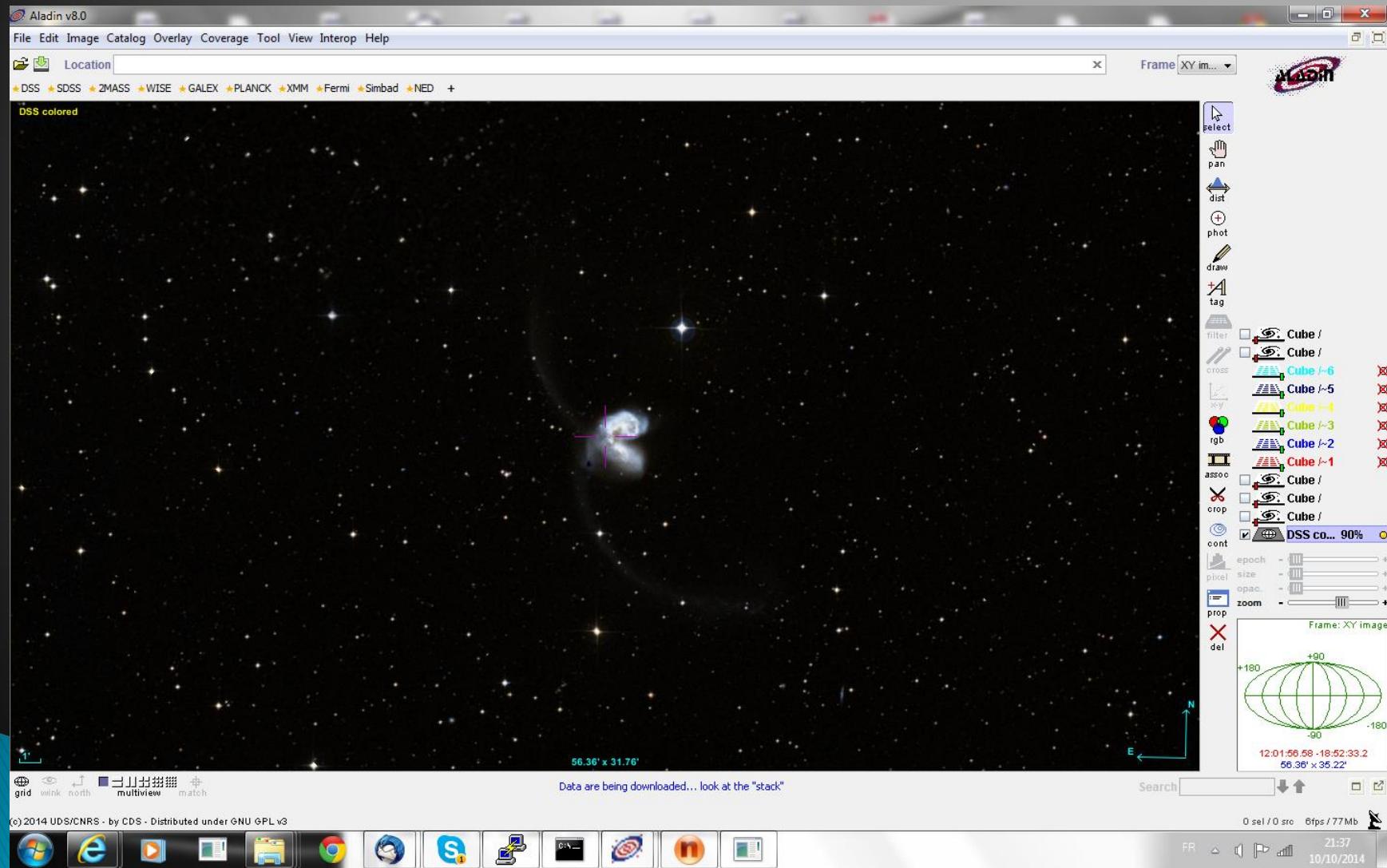
VAO SIAV2 server ALMA test data



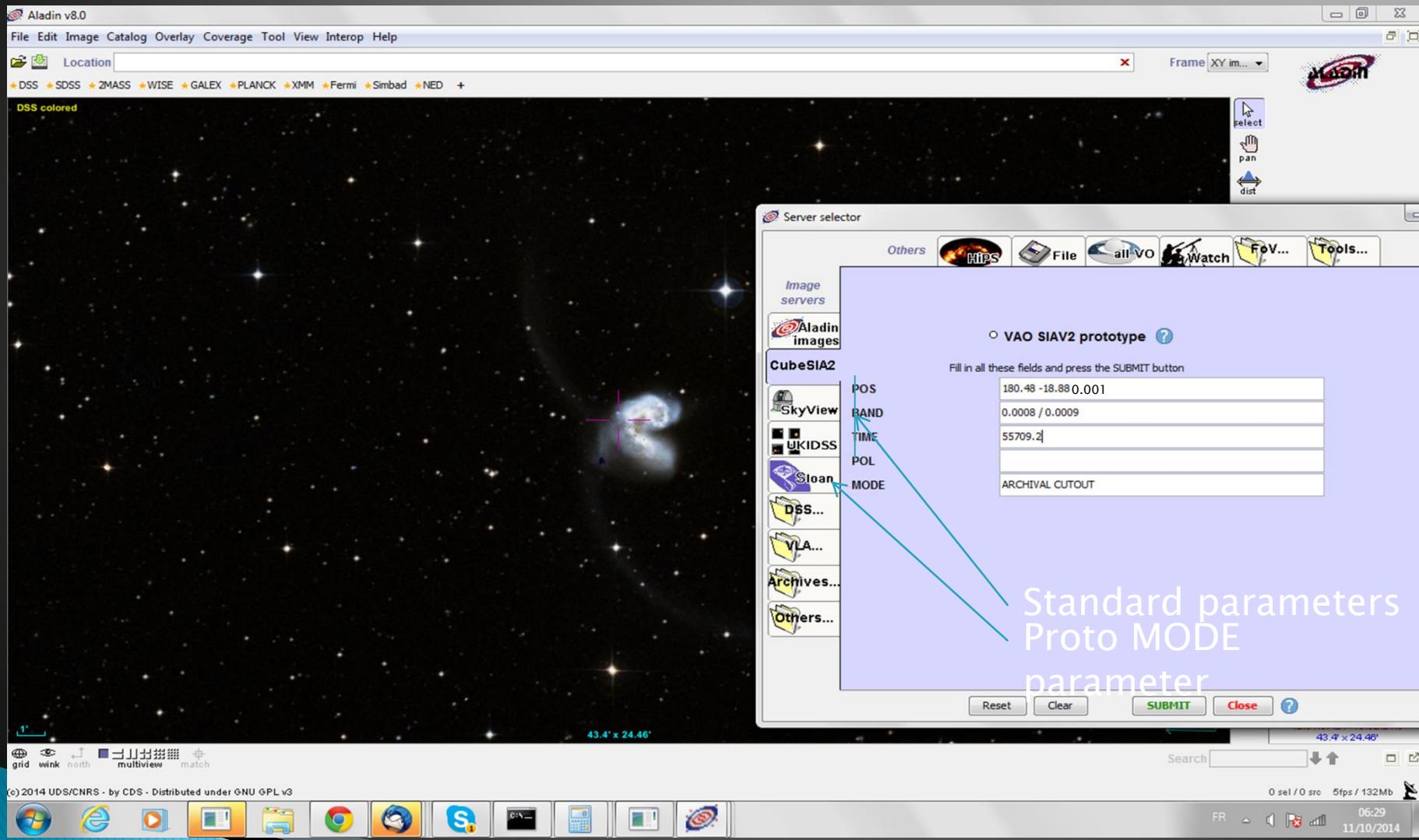
Antennae galaxies. A Combined Picture made with ALMA CO Millimeter and submillimeter band and HST image

VAO server contains test ALMA Server within this area

Aladin: Colored DSS Hips Zoom on Antennae galaxies



Interface to VAO SIAV2 server



Query response

Obscore metadata for full images and cubes or cutouts
interfaces. CO3 cube and moment images

The screenshot shows the Aladin v8.0 software interface. At the top, there is a menu bar with File, Edit, Image, Catalog, Overlay, Coverage, Tool, View, Interop, and Help. Below the menu is a toolbar with various icons for DSS, SDSS, 2MASS, WISE, GALEX, PLANCK, XMM, Fermi, Simbad, and NED. A status bar at the bottom displays "0 sel / 0 src" and "77ps / 77Mb".

A blue arrow points from the text "Obscore metadata for full images and cubes or cutouts interfaces. CO3 cube and moment images" to the "Data Info Frame" window.

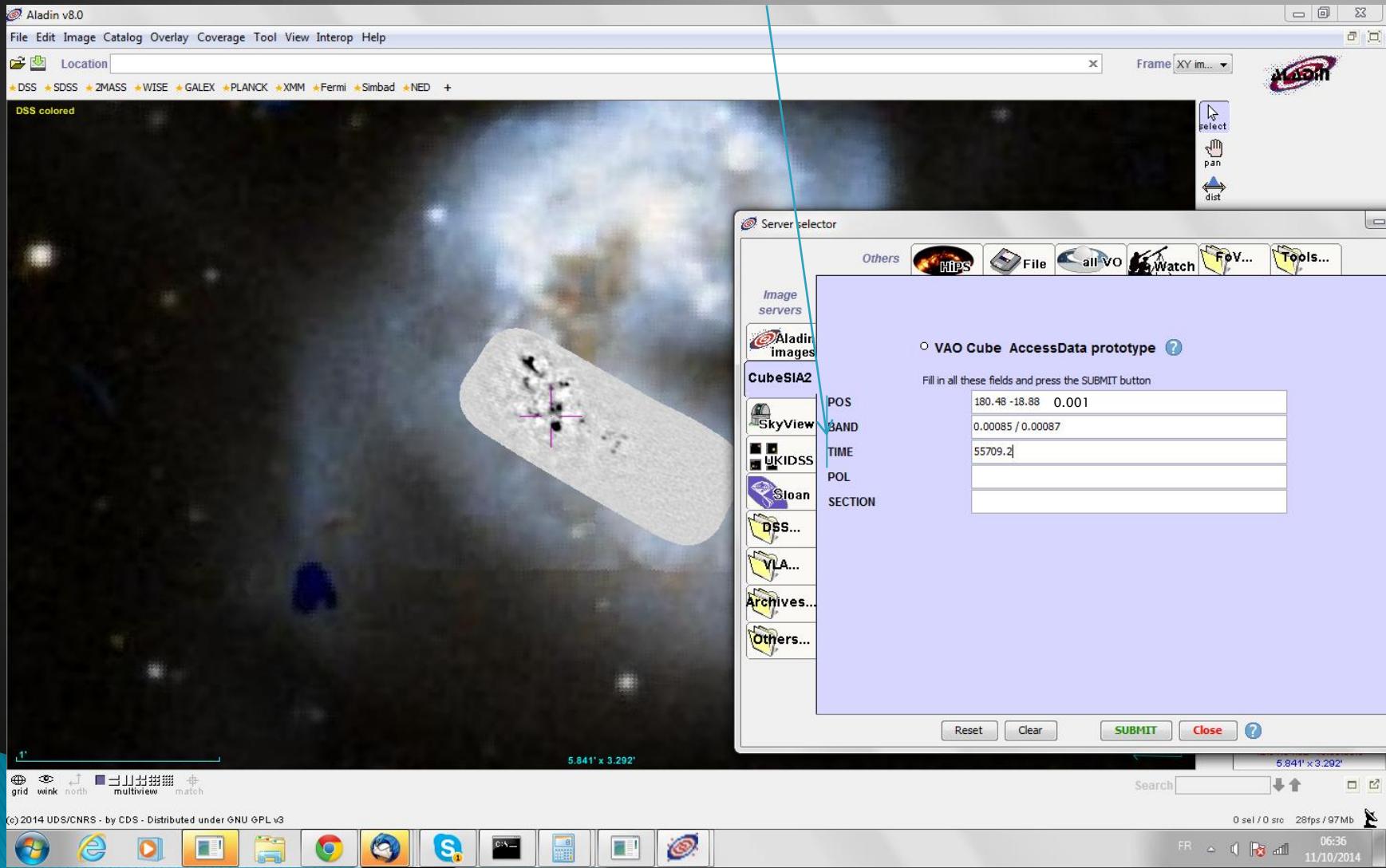
Data Info Frame: This window is titled "ALMA test data: Antennae_South.CO3_2Line.Clean.pcall.image.mom.weighted_coord.fits". It contains a table with columns: Field name, UCD, UType, and Value. The table includes the following data:

Field name	UCD	UType	Value
access_url	meta.ref.url	sia:Access.Reference	http://voasa-vm1.aoc.nrao.edu/ivoa-dal/siavp2-vao/sync?REQUEST=accessData&FORMAT=image/fits&PubID=ivo%3A%2F%2Fnrao%2Fvo%23sia2model%3A373
access_format		sia:Access.Format	image/fits
access_estsize	meta.number	sia:Access.Size	2367.0kB
calib_level		sia:Dataset.CalibLevel	2
dataset_length	meta.number	sia:Dataset.Length	562500
im_nsbarays	meta.number	sia:Image.Nsbarays	1
im_naxes	meta.number	sia:Image.Naxes	2
im_naxis	meta.number	sia:Image.Naxis	750 750
im_pixtype		sia:Image.Pixtype	float
im_wcsaxes		sia:Image.WCSAxes	RA---SIN DEC---SIN FREQ STOKES
im_scale		sia:Image.Scale	0.13"
obs_title	meta.title;meta.dat...	sia:DataID.Title	ALMA test data: Antennae_South.CO3_2Line.Clean.pcall.image.mom.weighted_coord.fits
Title	meta.id		ALMA test data: Antennae_South.CO3_2Line.Clean.pcall.image.mom.weighted_coord.fits
obs_creator_name	meta.curation	sia:DataID.Creator	NRAO
obs_collection		sia:DataID.Collection	ivo://nrao/alma

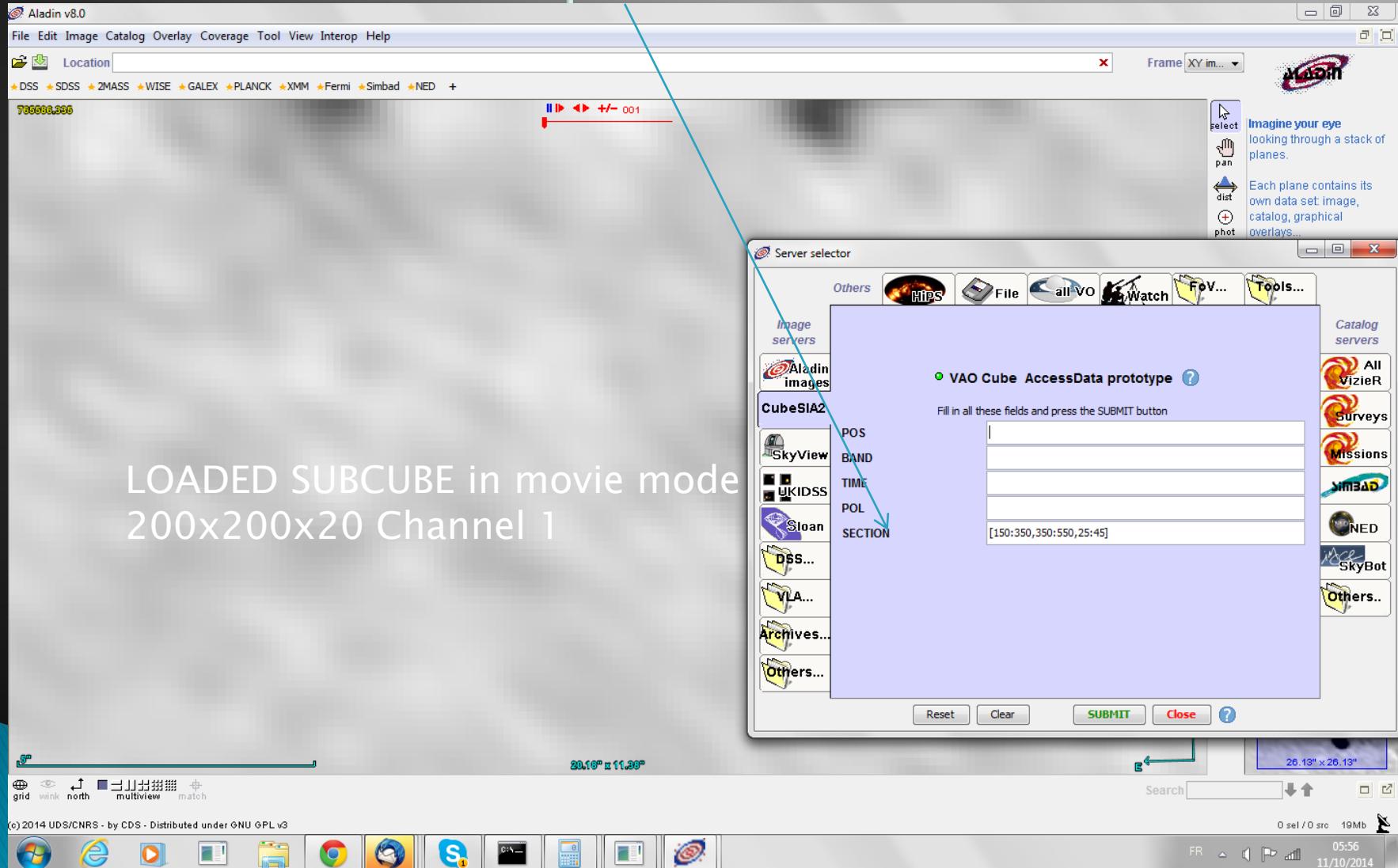
At the bottom of the Data Info Frame are buttons for Stick, FoV in stack, LOAD, and Close.

SkyView: This window shows a star map with a bounding box of "56.36' x 31.76'". It has a sidebar with links to UKIDSS, Sloan, DSS..., VLA..., Archives..., and Others... On the right, there is a list of "Missions" including ALMA, NED, and SkyBot, along with a "Others..." section. Buttons at the bottom include Reset, Clear, SUBMIT, Close, and a help icon.

AccessData interface to the loaded CO3 cube. Standard parameters

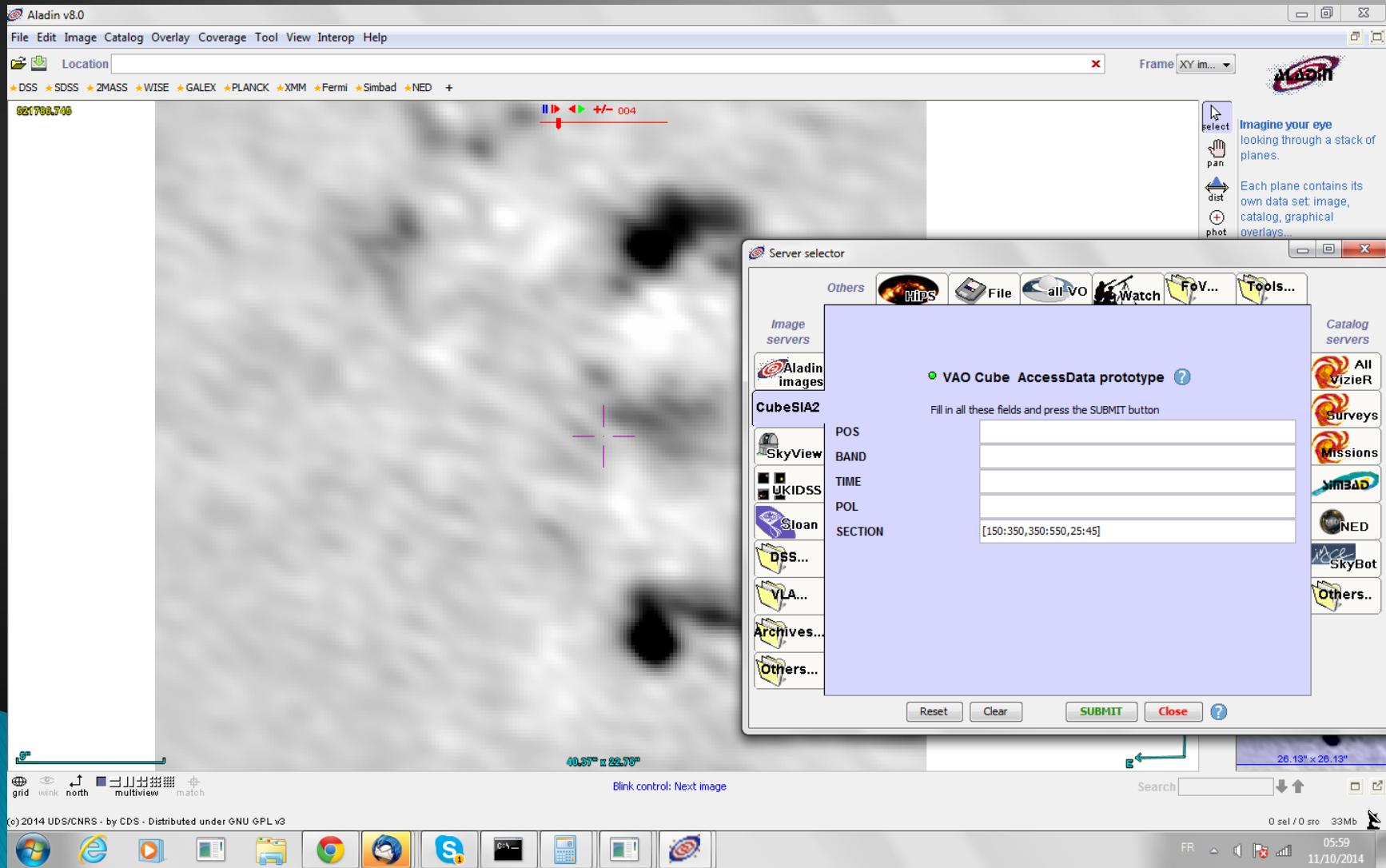


AccesData interface to the loaded CO3 cube. Prototype pixel cutout parameter



LOADED SUBCUBE in movie mode

Channel 4



LOADED SUBCUBE in movie mode

Channel 7

Aladin v8.0

Edit Image Catalog Overlay Coverage Tool View Interop Help

Location 69 37 Frame XY im... X

SS ★ SDSS ★ 2MASS ★ WISE ★ GALEX ★ PLANCK ★ XMM ★ Fermi ★ Simbad ★ NED +

7067.166

Imagine your eye looking through a stack of planes.

Each plane contains its own data set: image, catalog, graphical overlays...

select
pan
dist
phot

Server selector

Others HIPS File all VO Watch FoV... Tools...

Image servers

Aladin images

CubeSIA2

SkyView

UKIDSS

Sloan

DSS...

VLA...

Archives...

Others...

VAO Cube AccessData prototype ?

Fill in all these fields and press the SUBMIT button

POS

BAND

TIME

POL

SECTION

[150:350,350:550,25:45]

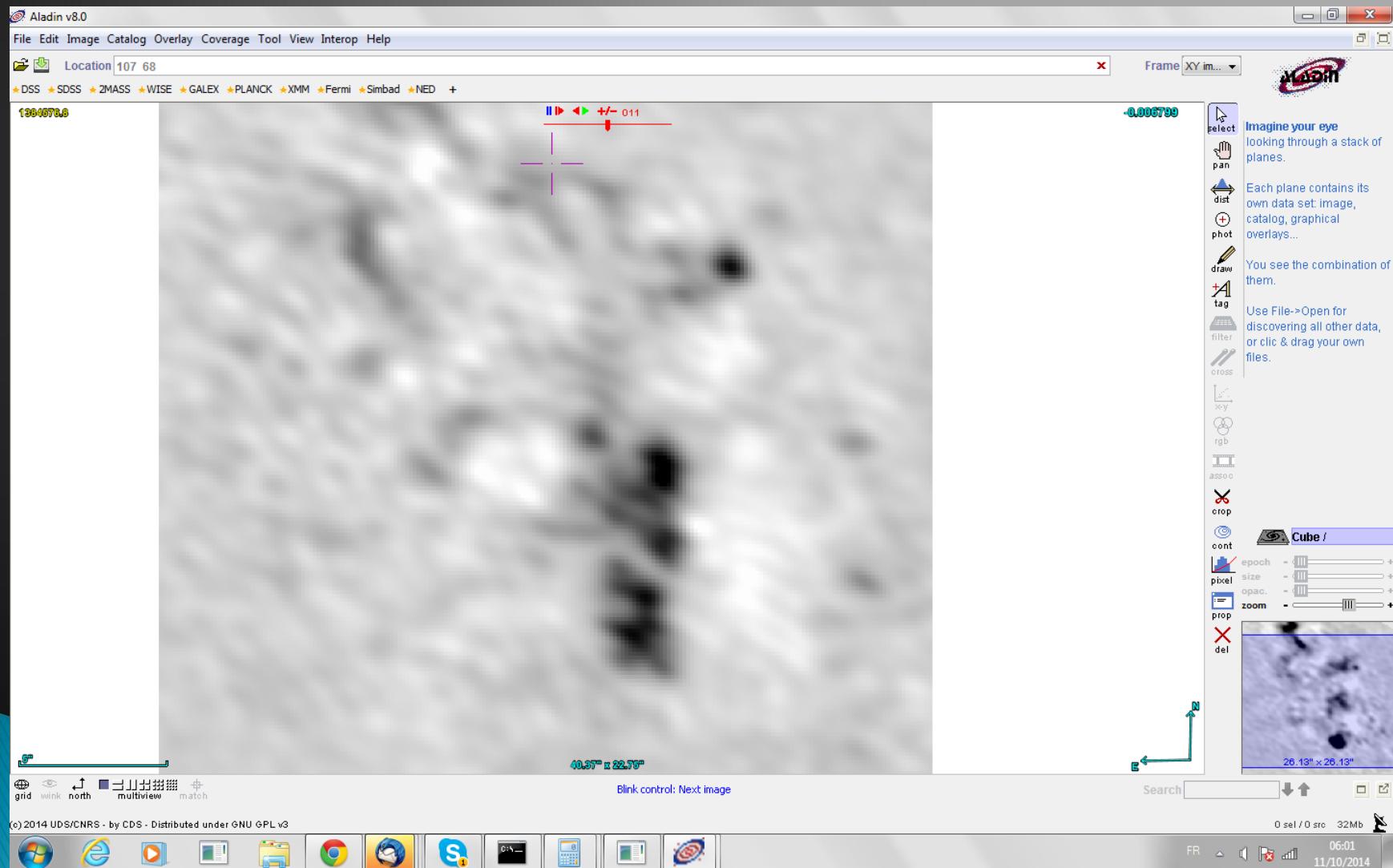
Reset Clear SUBMIT Close ?

40.37° x 22.75°

26.13° x 26.13°

LOADED SUBCUBE in movie mode

Channel 11



LOADED SUBCUBE in movie mode

Channel 16

