Datalink and TAP in Aladin

Contents

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1. Demo for CADC
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3. Conclusions

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4. Generic tap client
5. Glu tap client
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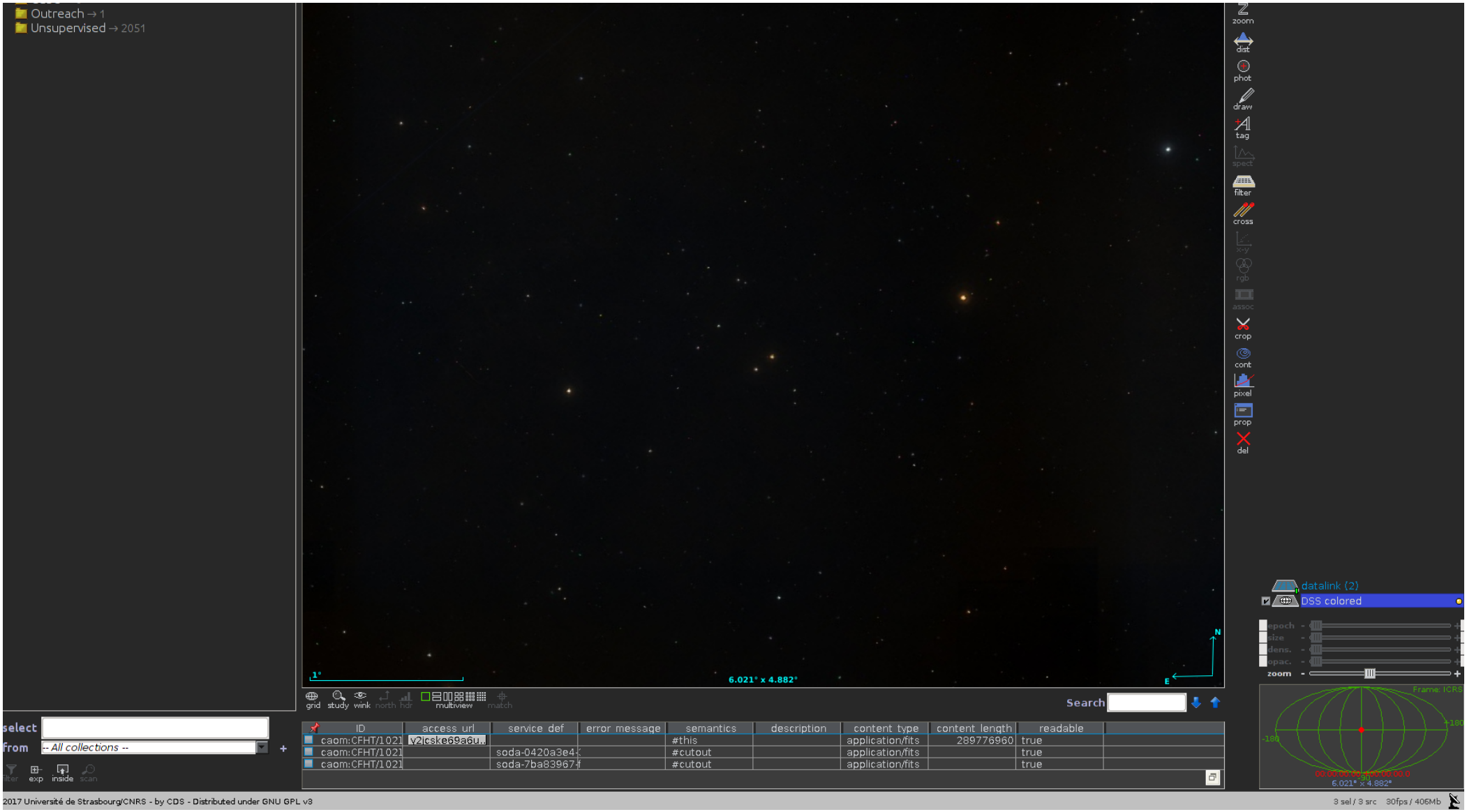
7. Loading TAP from directory tree
8. Conclusions

SIAV2/SODA/Datalink in Aladin



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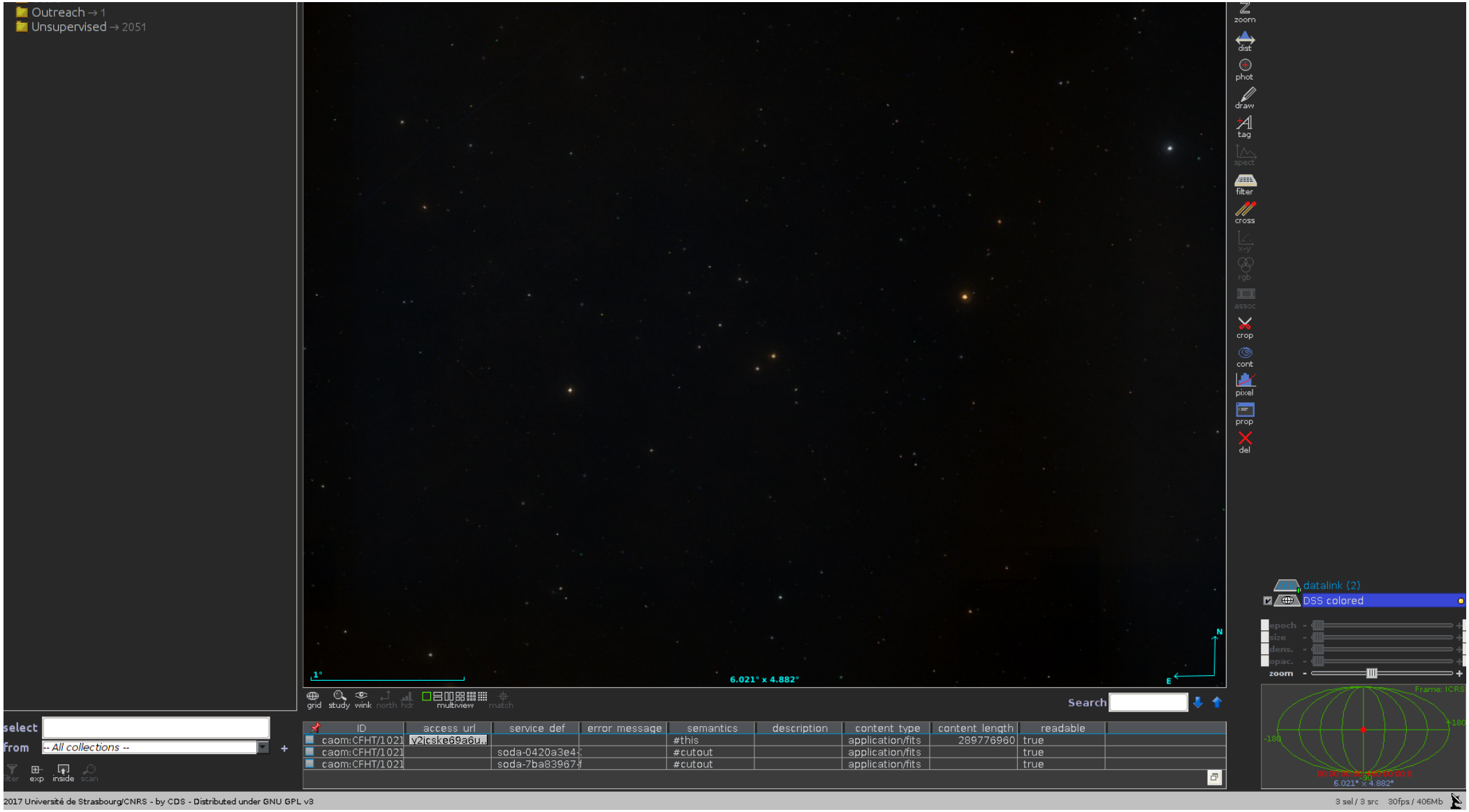

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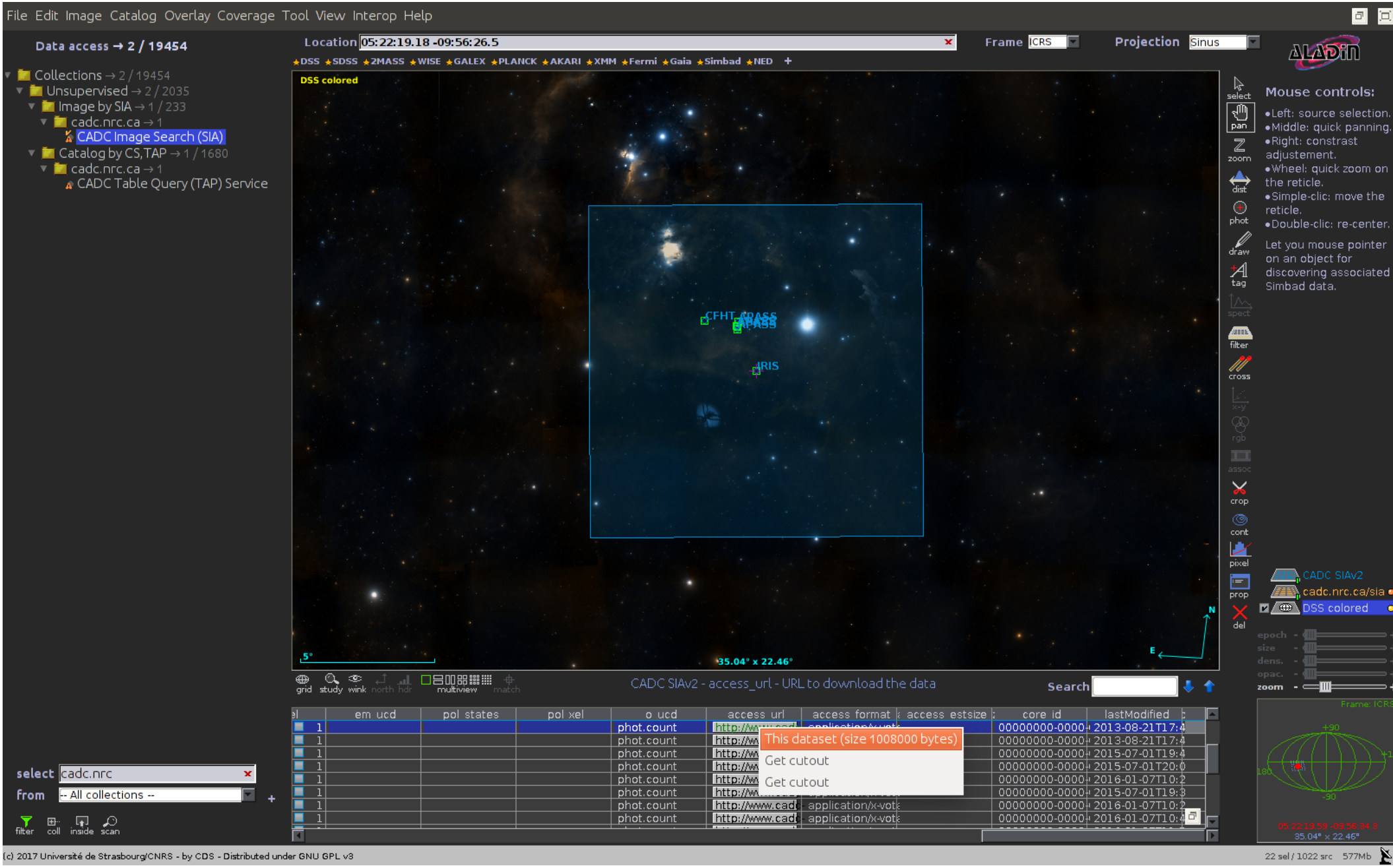

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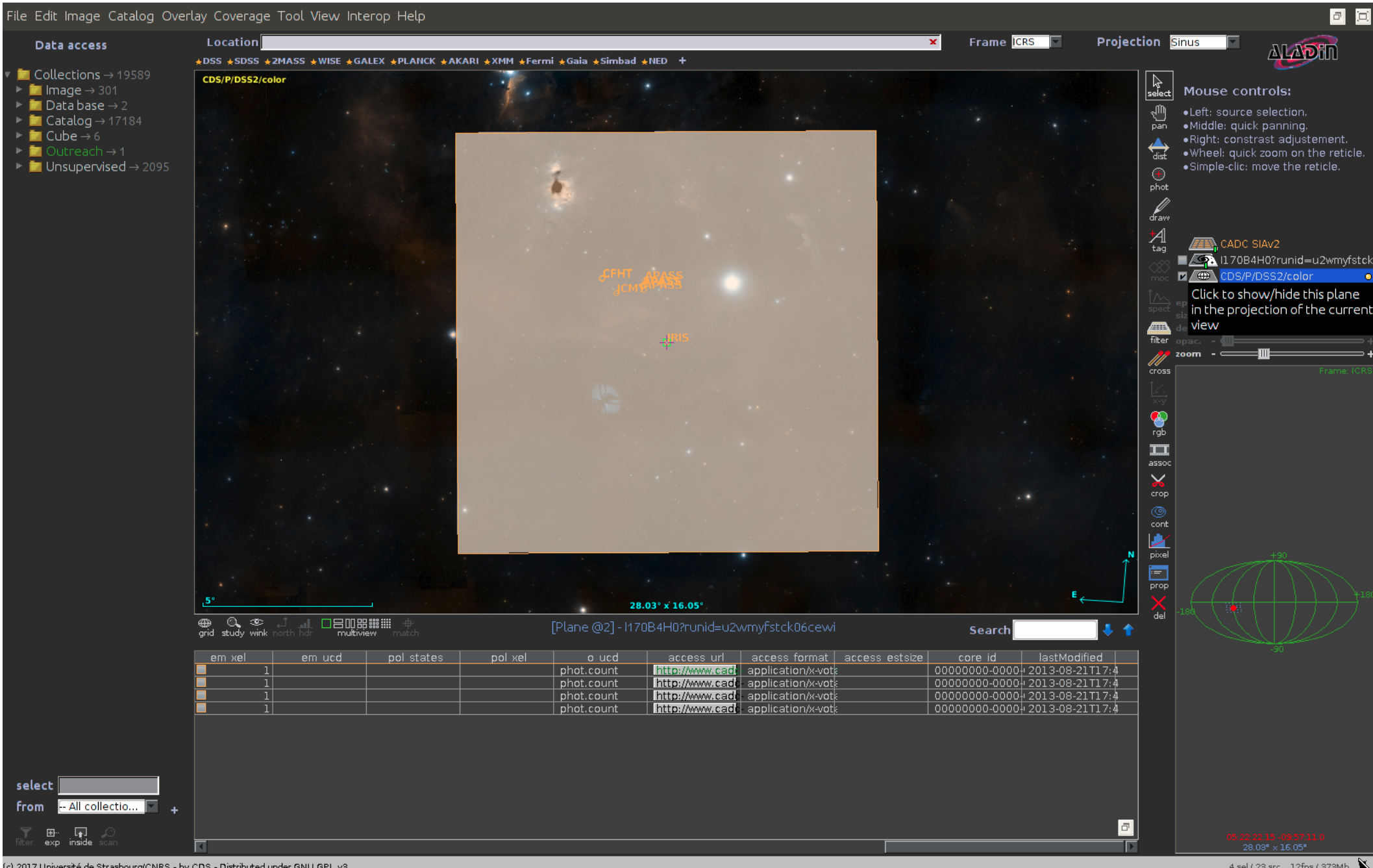
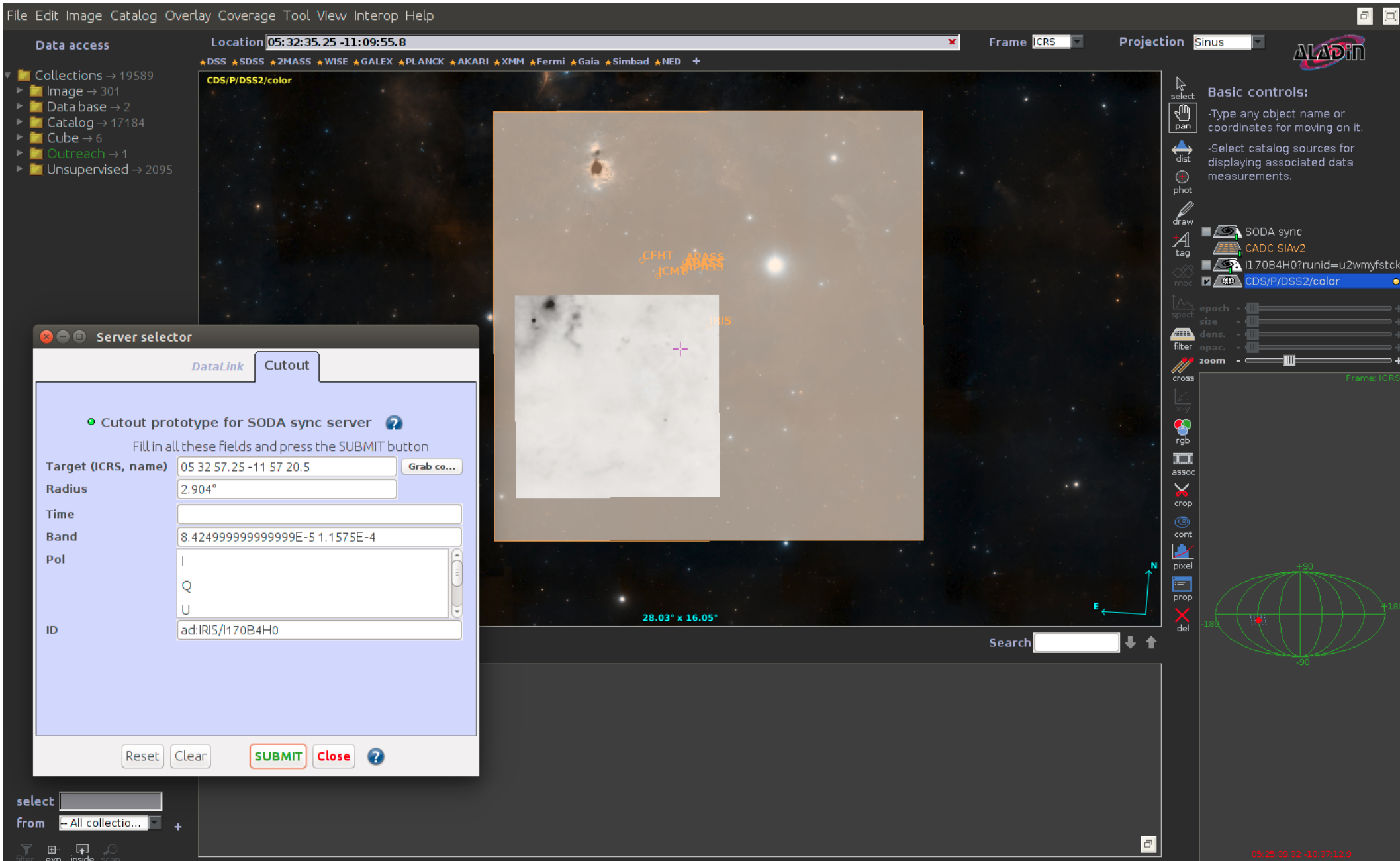


SIAV2/SODA/Datalink in Aladin



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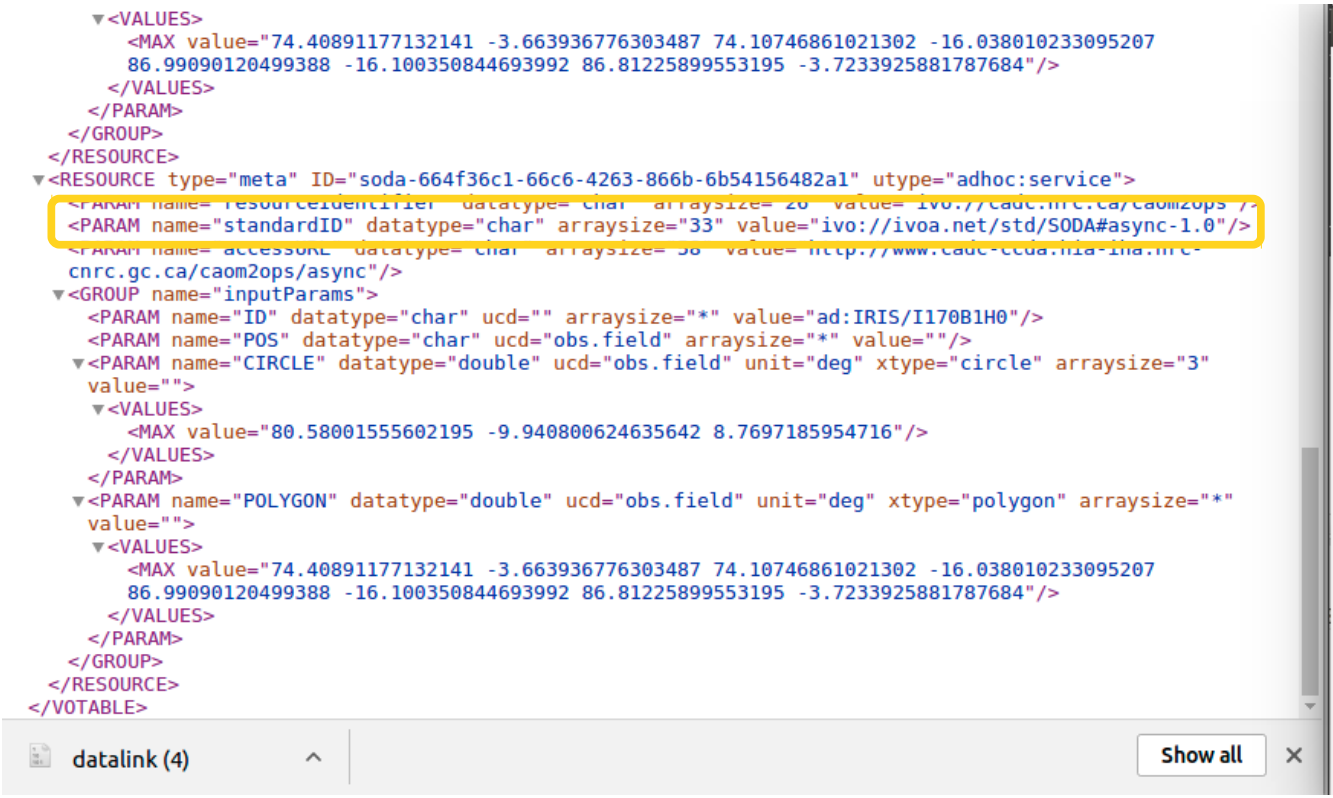

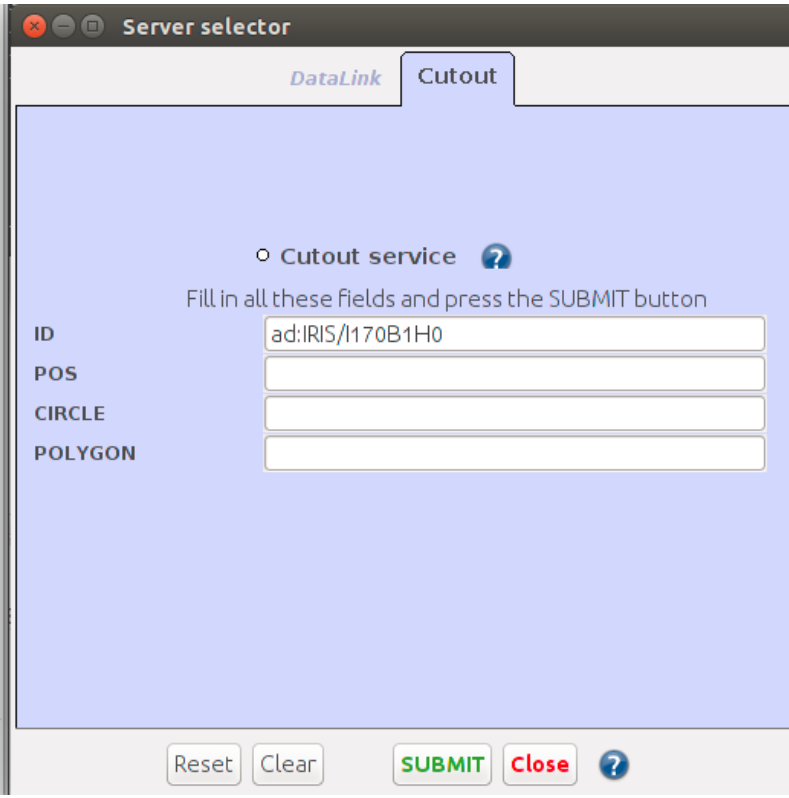

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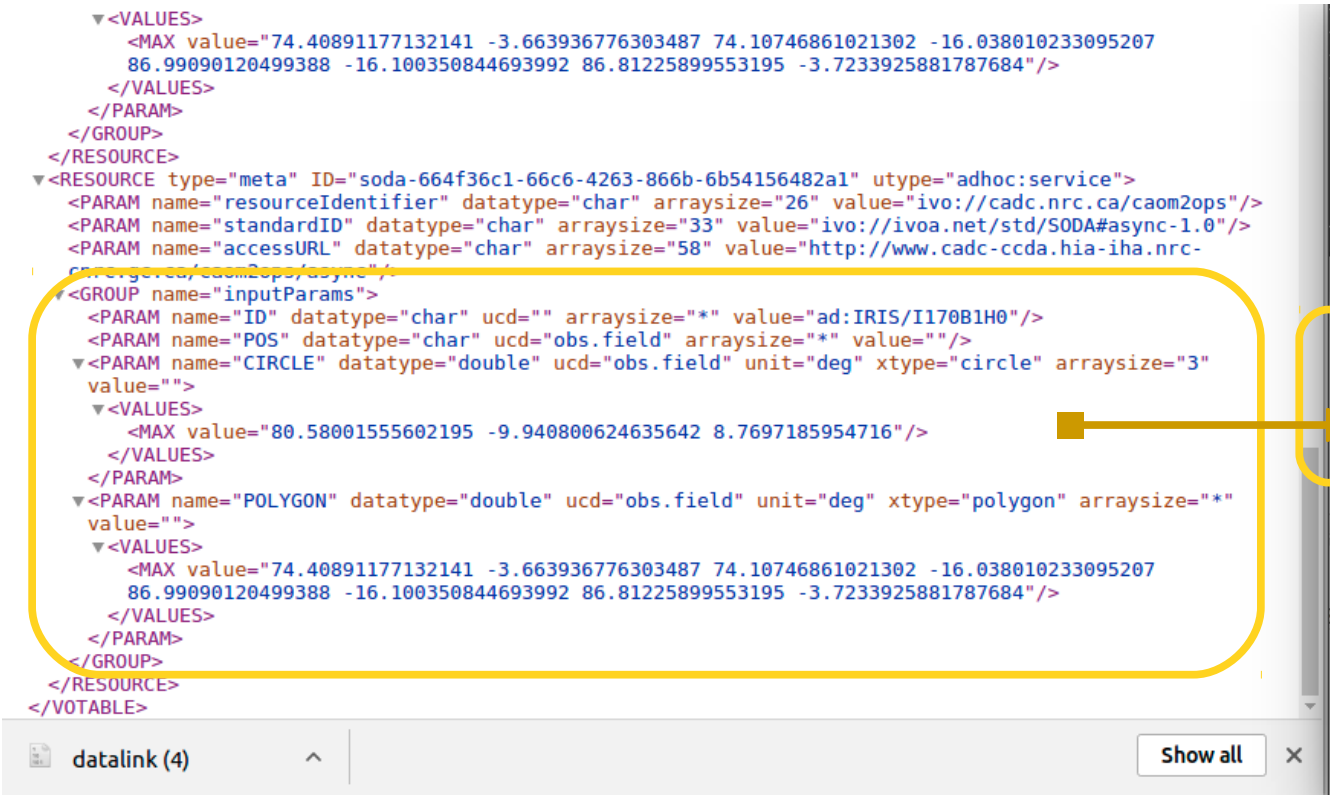

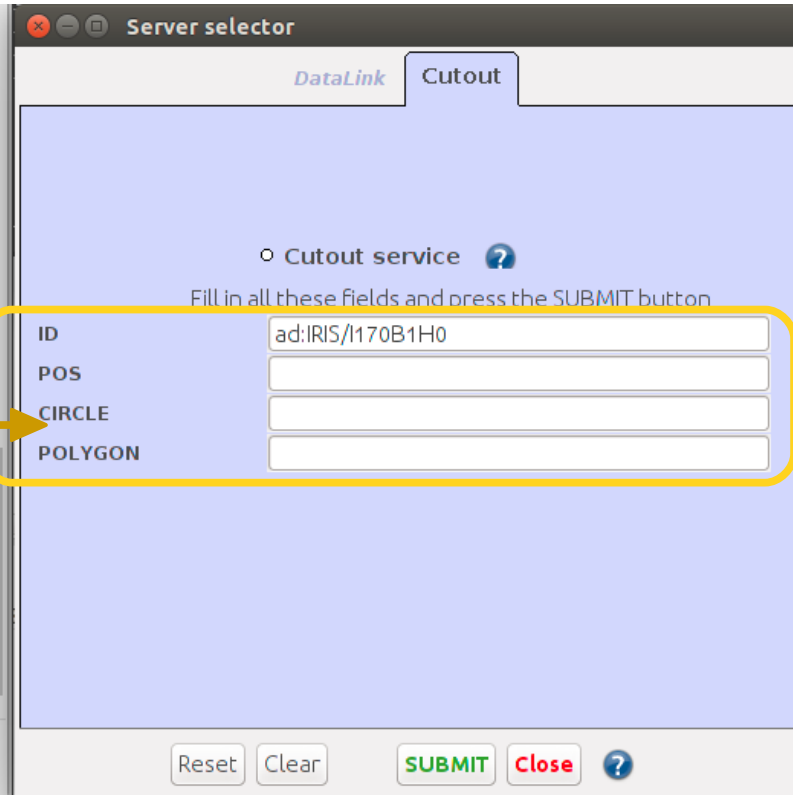

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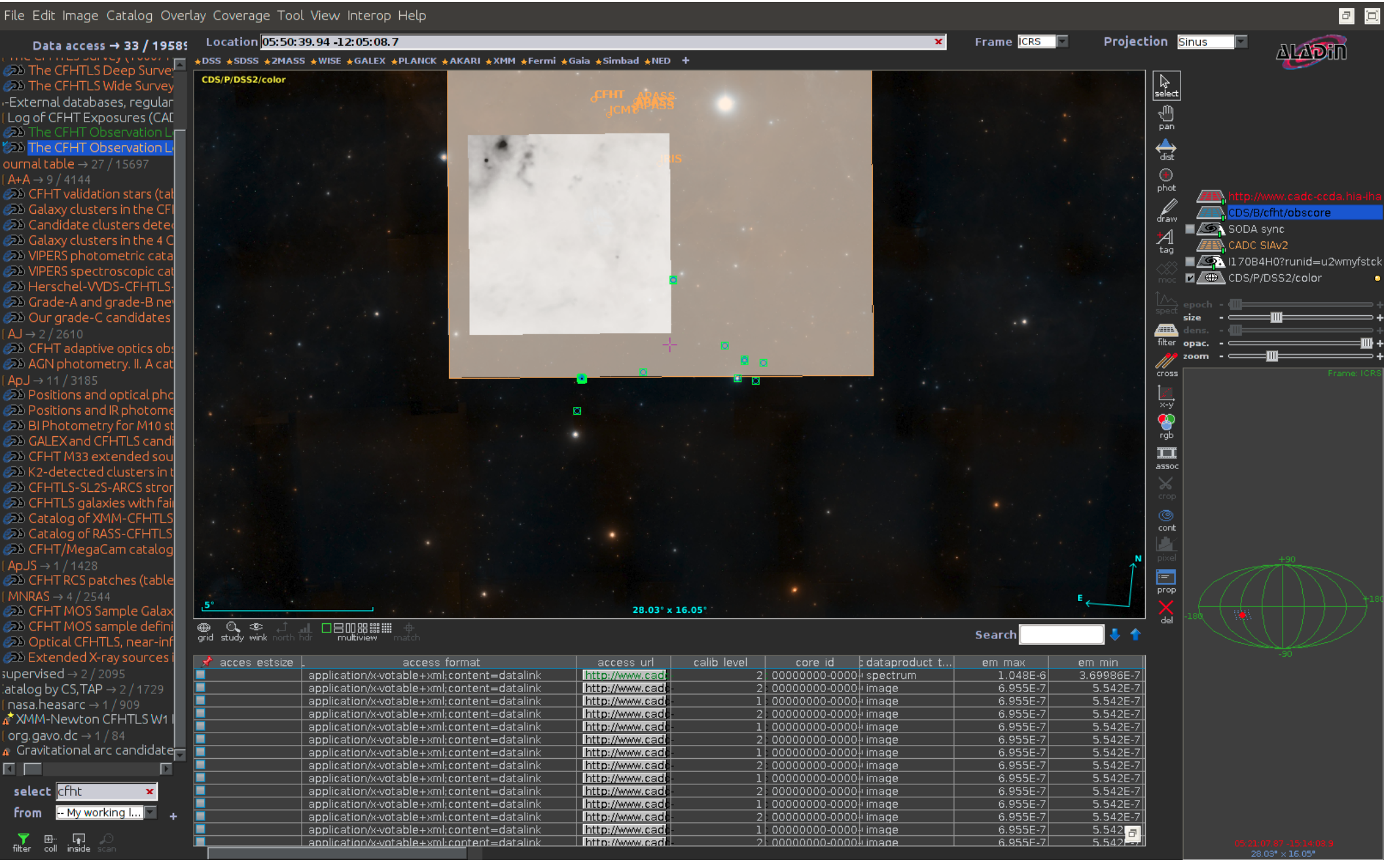
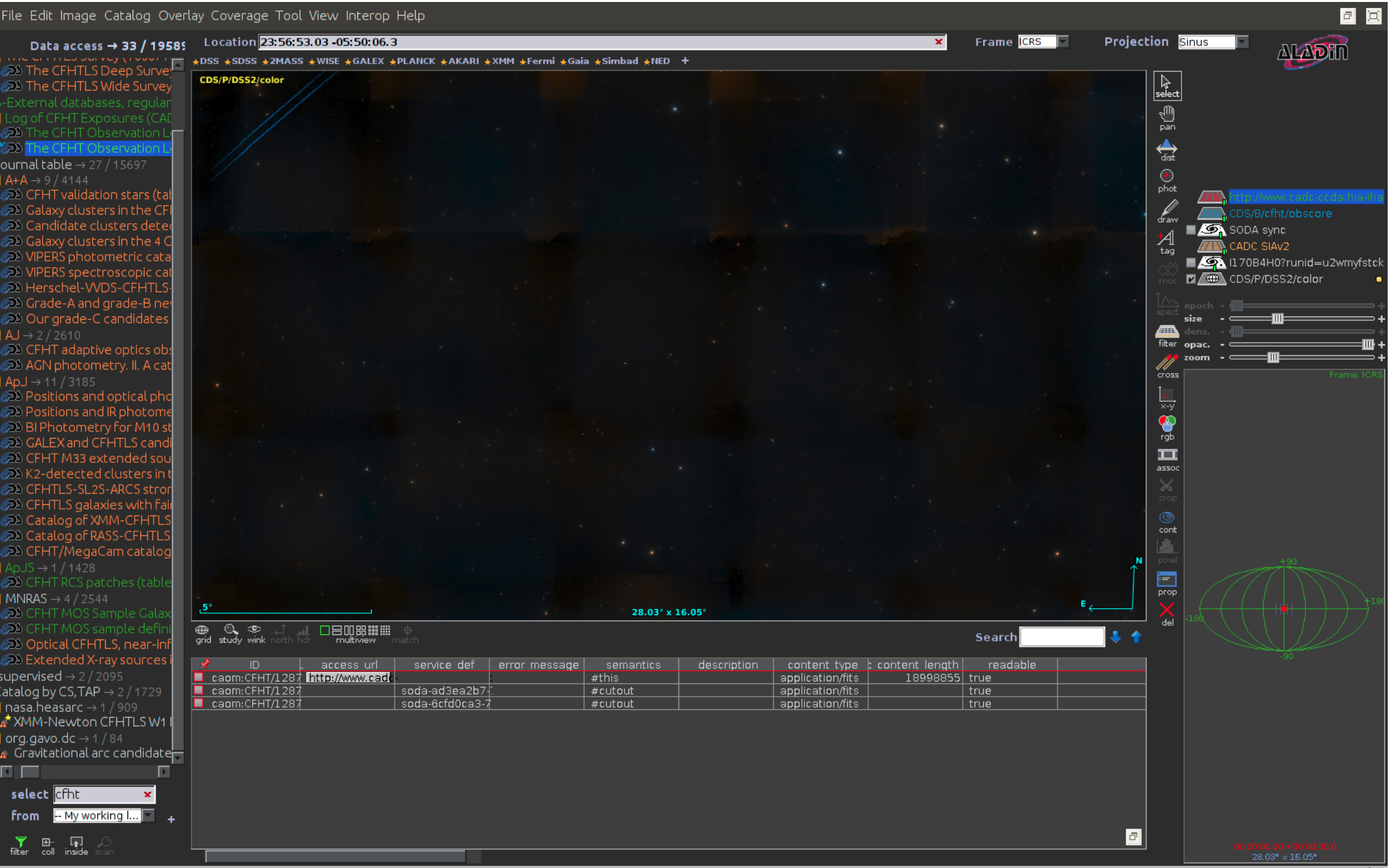


SIAV2/SODA/Datalink in Aladin



SIAV2/SODA/Datalink in Aladin

```
<TD>
  http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/caom2ops/datalink?runid=ox66cf6nd5wsfxx6&ID=caom%3AIRIS%2Ff170h000%2FIRAS-100um
</TD>
<TD>application/x-votable+xml;content=datalink</TD>
<TD/>
<TD>f170h000</TD>
```

Value = application/x-votable+xml;content=datalink

	Visible	Coo	Name	Description	Unit	Datatype	UCD	Utype	Wi...	Arr...	Pr...
26	☑		em_max	stop spectral coordinate v...	m	double	em.wl;stat.max	obscore:Char.SpectralAxis....			
27	☑		Spectral co...	stop spectral coordinate v...	m	double	em.wl;stat.max	obscore:Char.SpectralAxis....			
28	☑		em_res_power	typical spectral resolution		double	spect.resolution	obscore:Char.SpectralAxis....			
29	☑		em_xel	dimensions (number of pix...		long	meta.number	obscore:Char.SpectralAxis....			
30	☑		em_ucd	UCD describing the spectr...		char	meta.ucd	obscore:Char.SpectralAxis....		32*	
31	☑		pol_states	polarization states presen...		char	meta.code;ph...	obscore:Char.PolarizationA...		32*	
32	☑		pol_xel	dimensions (number of pix...		long	meta.number	obscore:Char.PolarizationA...			
33	☑		o_ucd	UCD describing the obser...		char	meta.ucd	obscore:Char.ObservableA...		32*	
34	☑		access_url	URL to download the data		char	meta.ref.url	obscore:Access.Reference		*	
35	☑		access_format	format of the data file(s)		char	meta.code.mi...	obscore:Access.Format		128*	
36	☑		access_estsi...	estimated size of the dow...	kbyte	long	phys.size;meta...	obscore:Access.Size			
37	☑		core_id	primary key		char				36	
38	☑		lastModified	timestamp of last modifica...		char				*	

Select all | Unselect all - Parsing report | Coord. columns - Close

SIAV2/SODA/Datalink in Aladin

```
<TD>
  http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/caom2ops/datalink?runid=ox66cf6nd5wsfxx6&ID=caom%3AIRIS%2Ff170h000%2FIRAS-100um
</TD>
<TD>application/x-votable+xml;content=datalink</TD>
<TD/>
<TD>f170h000</TD>
```

Value = application/x-votable+xml;content=datalink

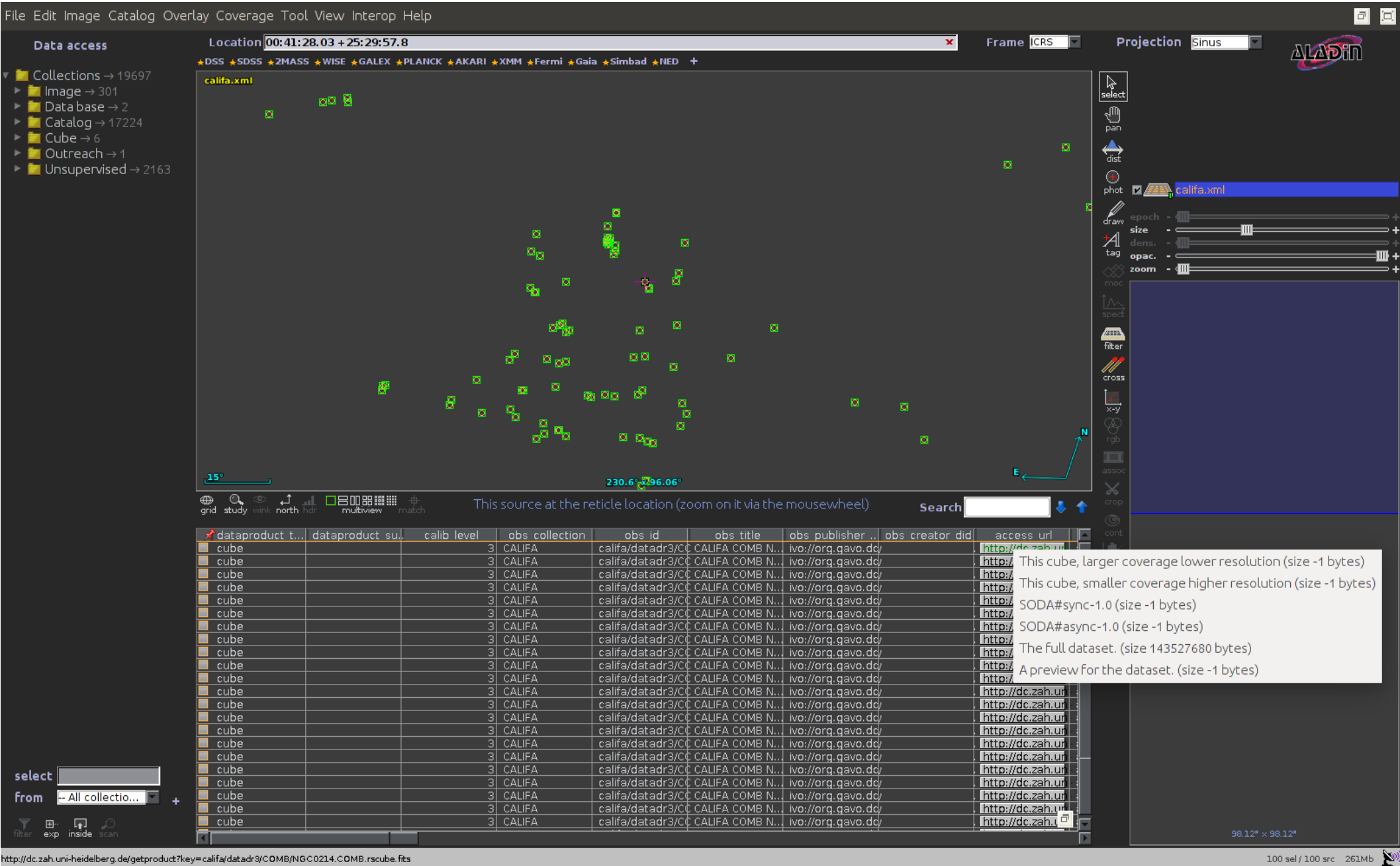
	Visible	Coo	Name	Description	Unit	Datatype	UCD	Utype	Width	Arrays...	Precis...
1	☑		**acces_estsize**	? estimated size of the do...		int	meta.number			1	
2	☑		**access_format**	format of the data file (\o...		char	meta.note			*	
3	☑		**access_url**	? URL to download the da...		char	meta.ref.url			*	
4	☑		**calib_level**	[1,2] calibration level (\or...		short	phot.calib;arit...			1	
5	☑		**core_id**	primary key (\original{cor...		char	meta.id.part;...			36	
6	☑		**dataproduct_type**	type of product (\original{...		char	meta.note			*	
7	☑		**em_max**	? stop spectral coordinat...	m	float	instr.bandpass			1	
8	☑		**Spectral coordinate ...**	? stop spectral coordinat...	m	float	instr.bandpass			1	
9	☑		**em_min**	? start spectral coordinat...	m	float	instr.bandpass			1	
10	☑		**Spectral coordinate s...**	? start spectral coordinat...	m	float	instr.bandpass			1	
11	☑		**em_res_power**	? typical spectral resoluti...		float	spect.resoluti...			1	
12	☑		**em_ucd**	? UCD describing the spec...		char	meta.number			*	
13	☑		**em_xel**	? dimensions (number of ...		int	phys.size			1	

Select all | Unselect all | - | Parsing report | Coord. columns | - | Close

Conclusions

1. Need to resolve issues with Aladin and implement handling of more usecases
2. Need a distinctive way to identify a datalink
   → Addition of UCD to access format(Asterics Tech Forum March 2017)
   → appropriate obscore utypes for access url and format columns
3. Better description of services

SIAV2/SODA/Datalink in Aladin



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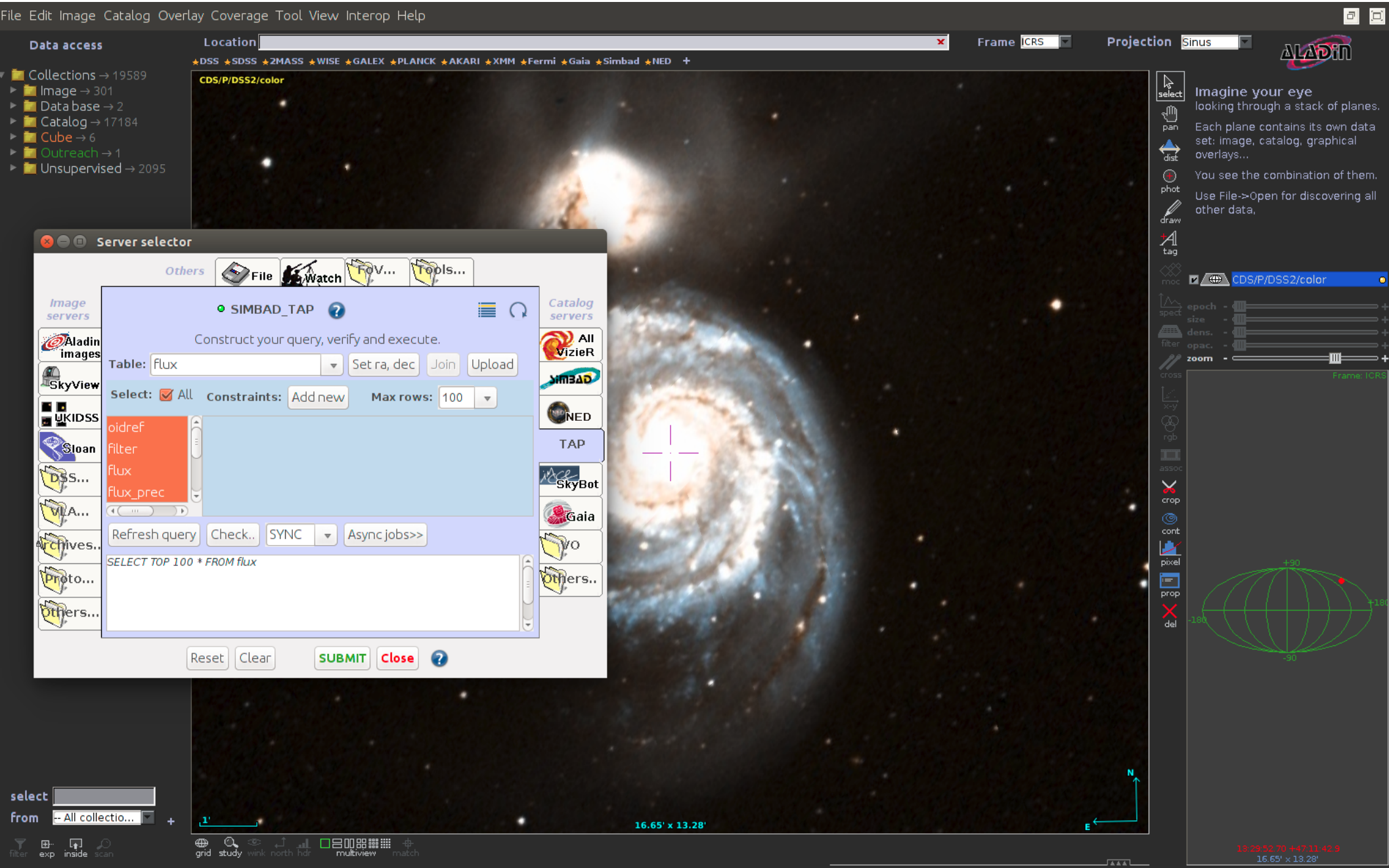
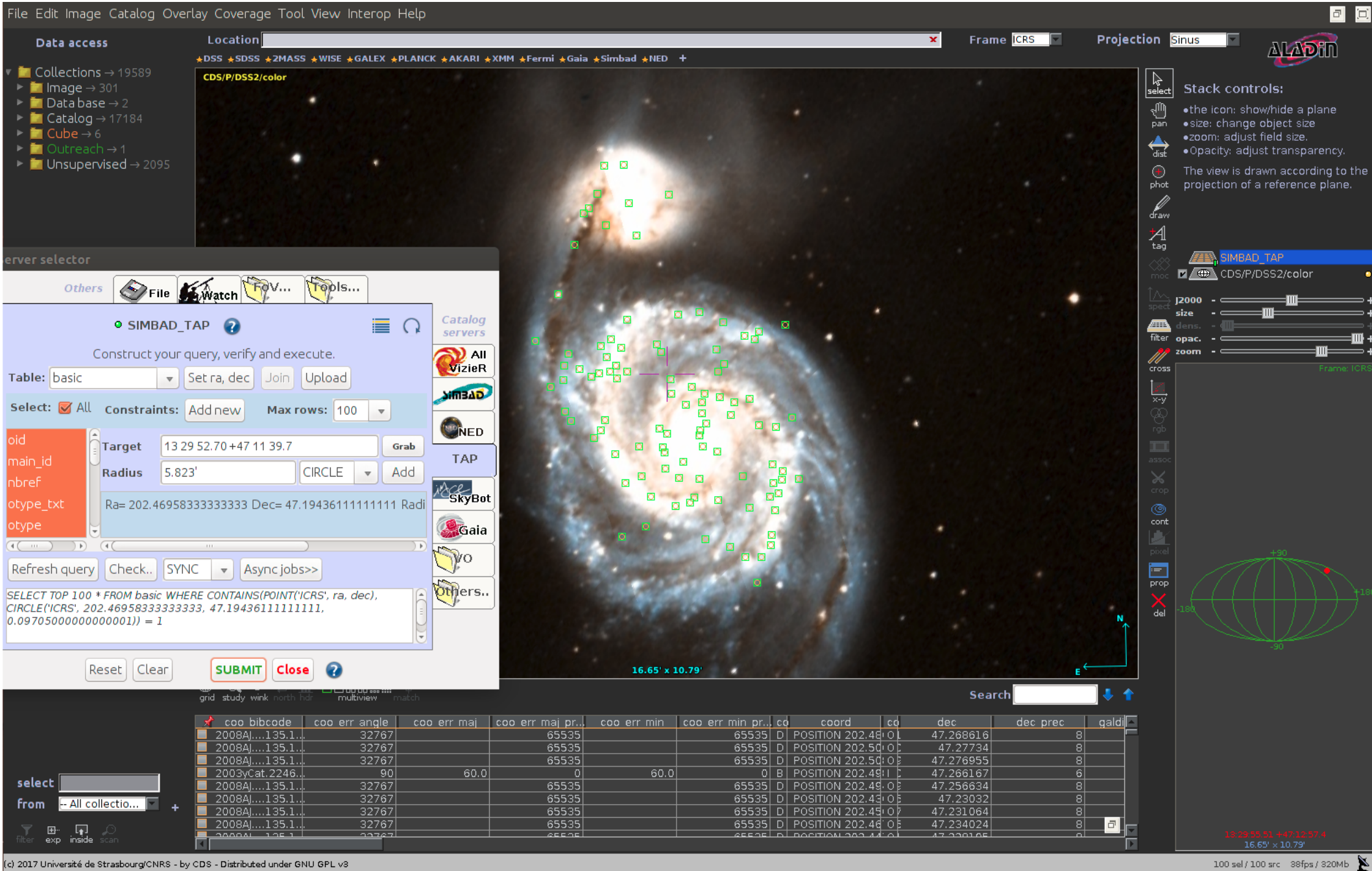
Aladin's TAP clients



Aladin's TAP clients



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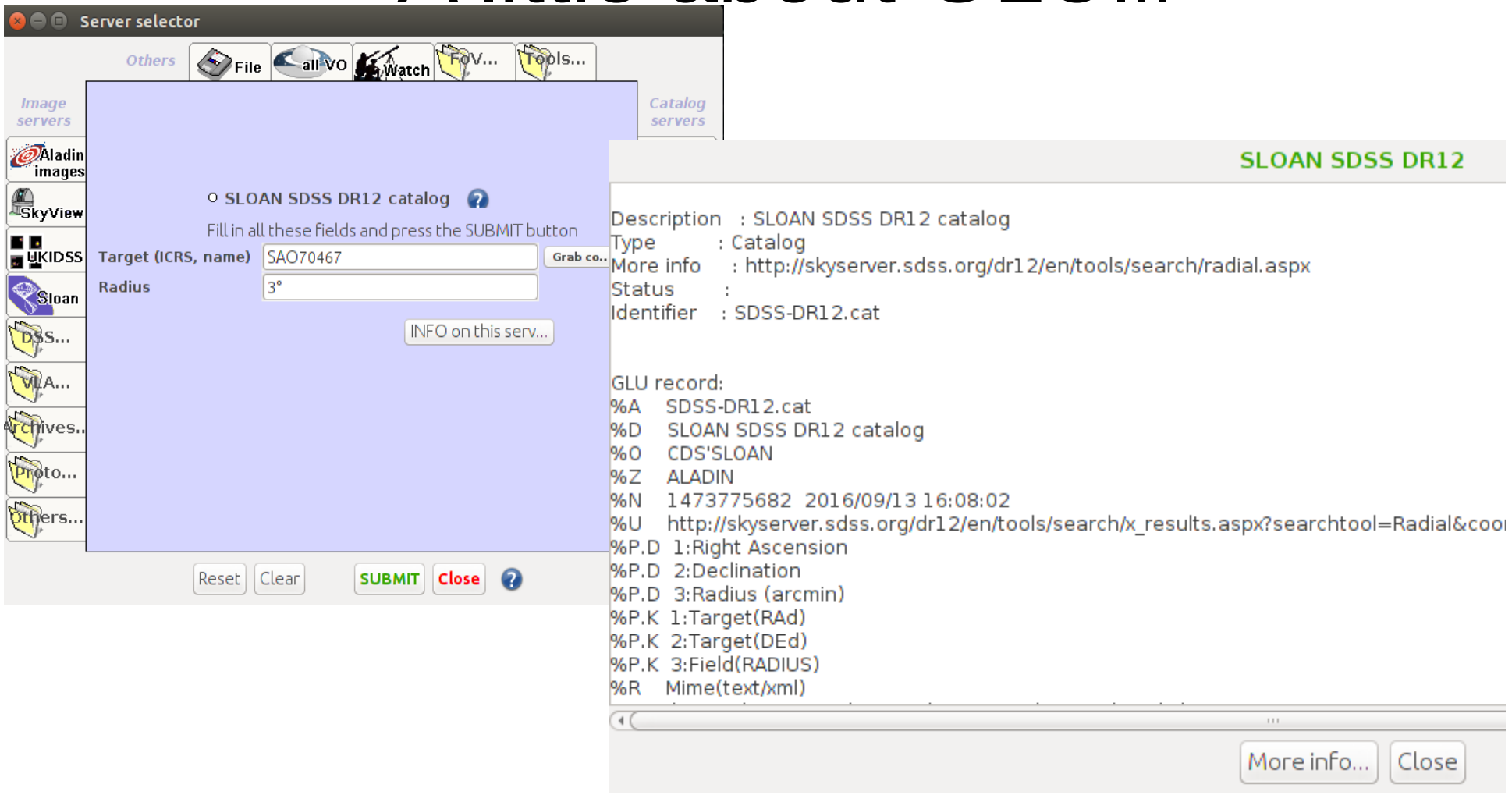
Aladin's TAP clients
A little about GLU...



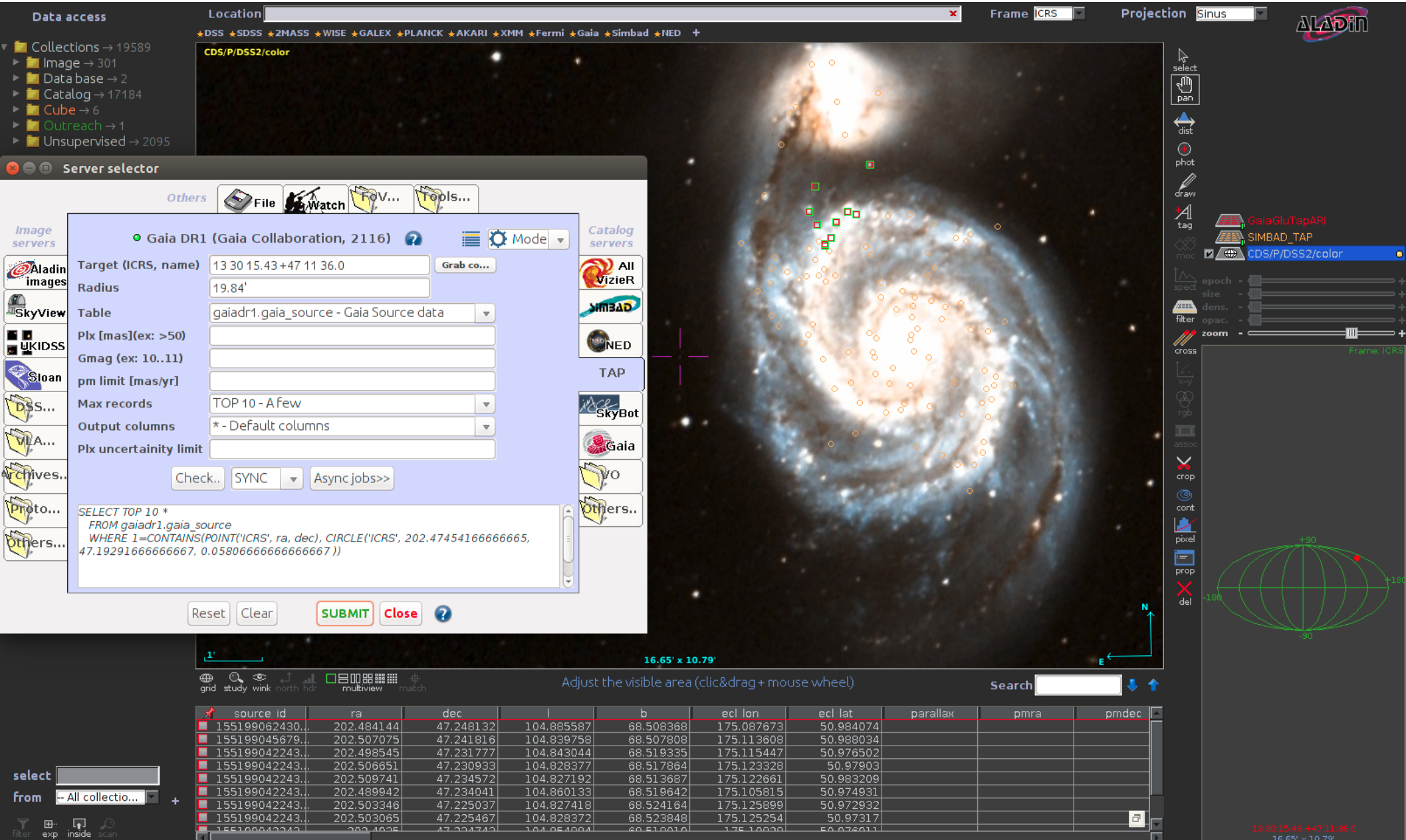
Aladin's TAP clients

- Glu

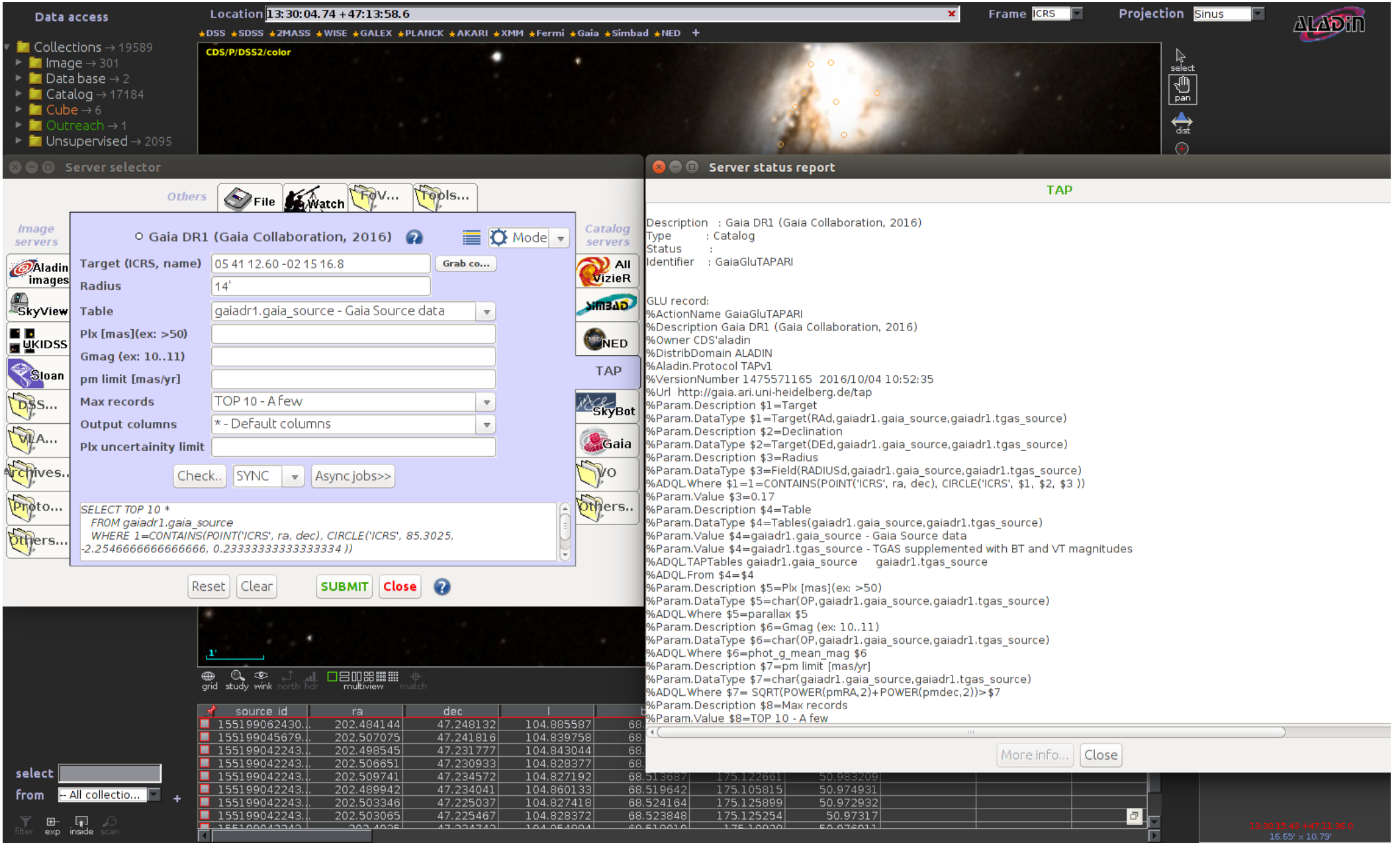
```
%Param.Description   5:Plx [mas](ex: >50)
%Param.DataType      5=char(OP,"I/337/gaia","I/337/tgasptyc")
%ADQL.Where          5=parallax $5
```

%ADQL.Where
%ADQL.Select
%ADQL.From
Etc..

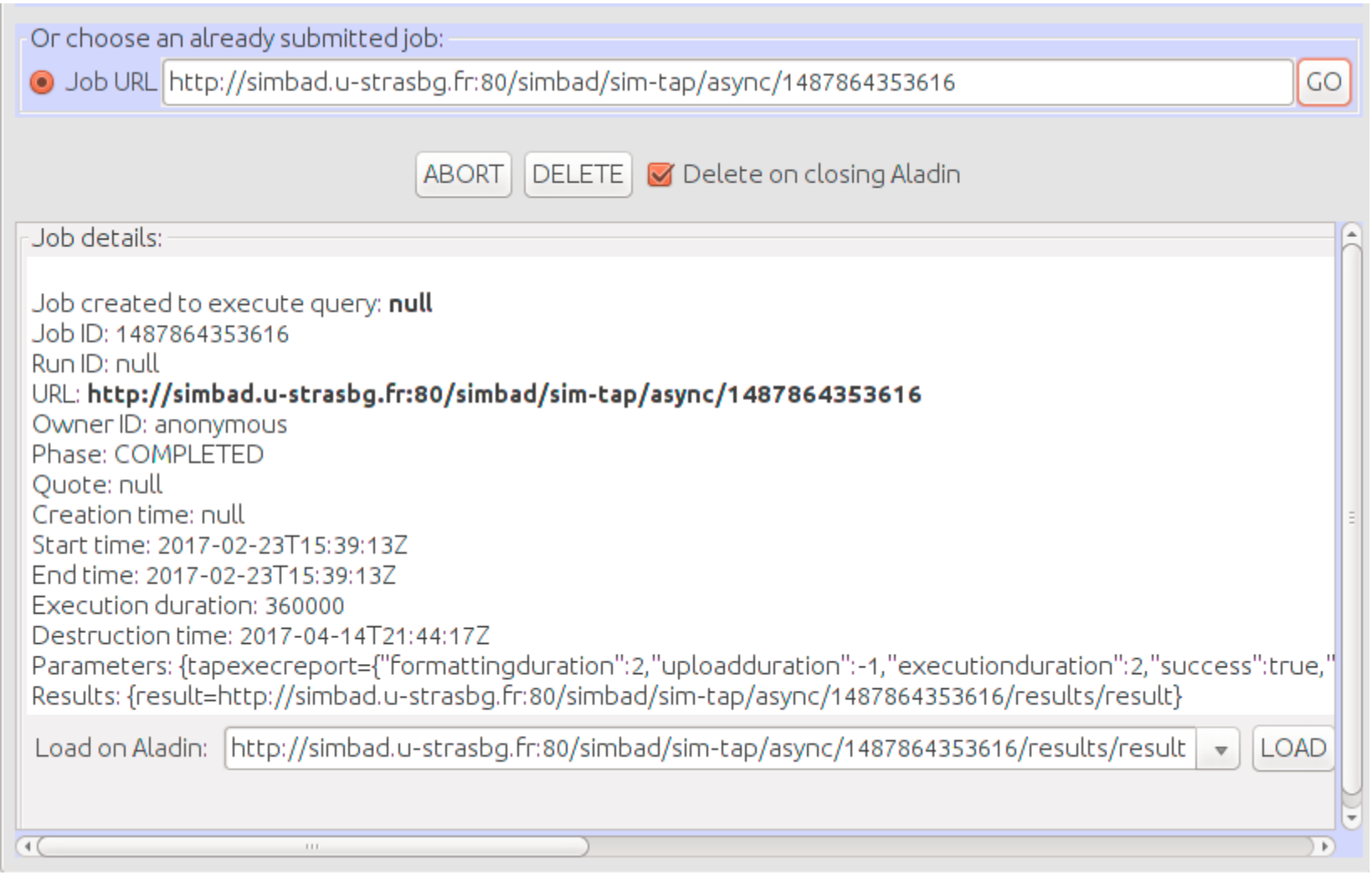
Aladin's TAP clients



Aladin's TAP clients



Aladin's TAP clients



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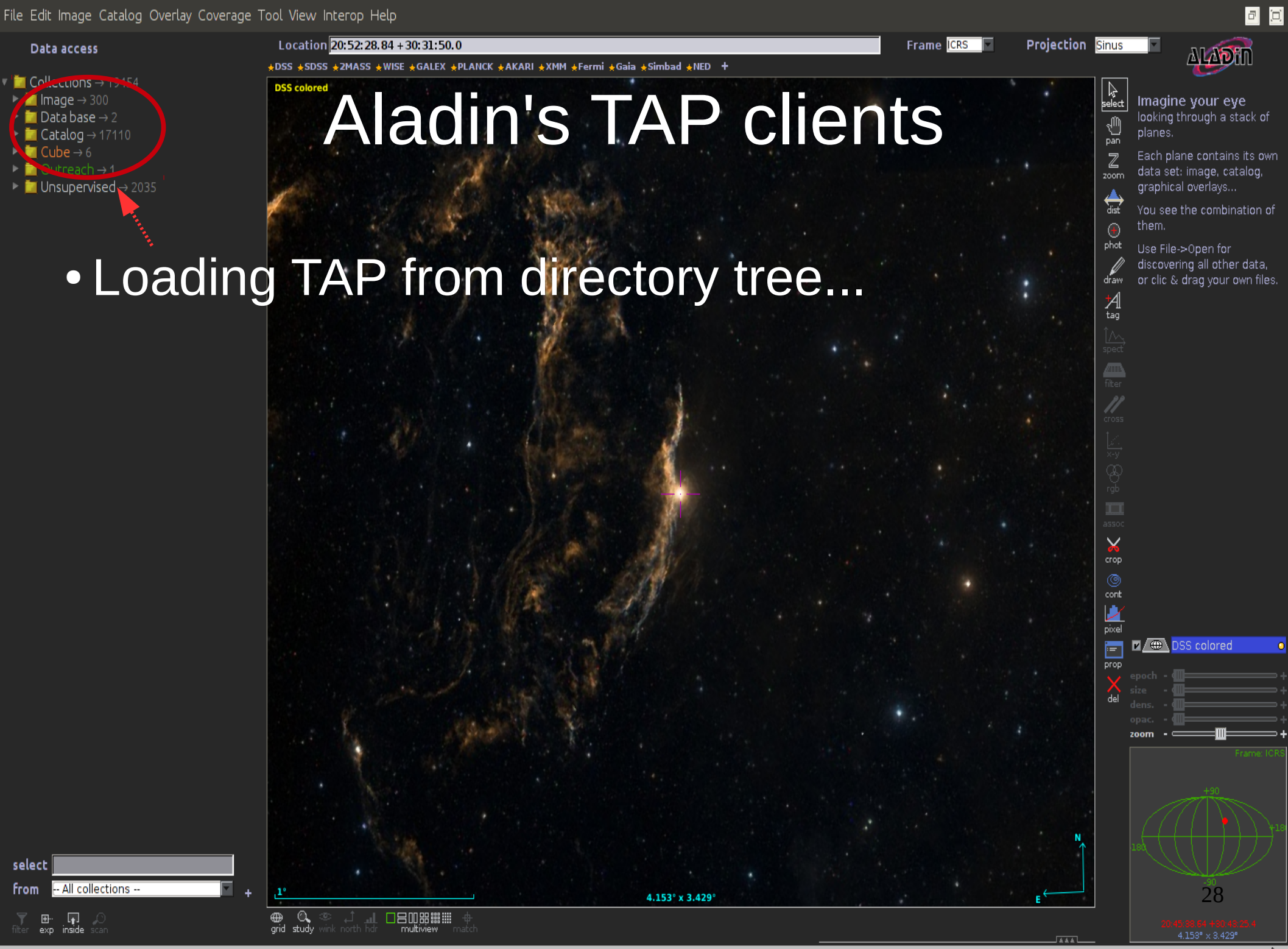
File Edit Image Catalog Overlay Coverage Tool View Interop Help
Data access
Location 20:52:28.84 +30:31:50.0
Frame ICRS
Projection Sinus
DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED
Image → 300
Data base → 2
Catalog → 17110
Cube → 6
Outreach → 1
Unsupervised → 2035
DSS colored
Aladin's TAP clients
• Loading TAP from directory tree...
Imagine your eye
looking through a stack of planes.
Each plane contains its own data set: image, catalog, graphical overlays...
You see the combination of them.
Use File->Open for discovering all other data, or clic & drag your own files.
select
from
-- All collections --
4.153° x 3.429°
28
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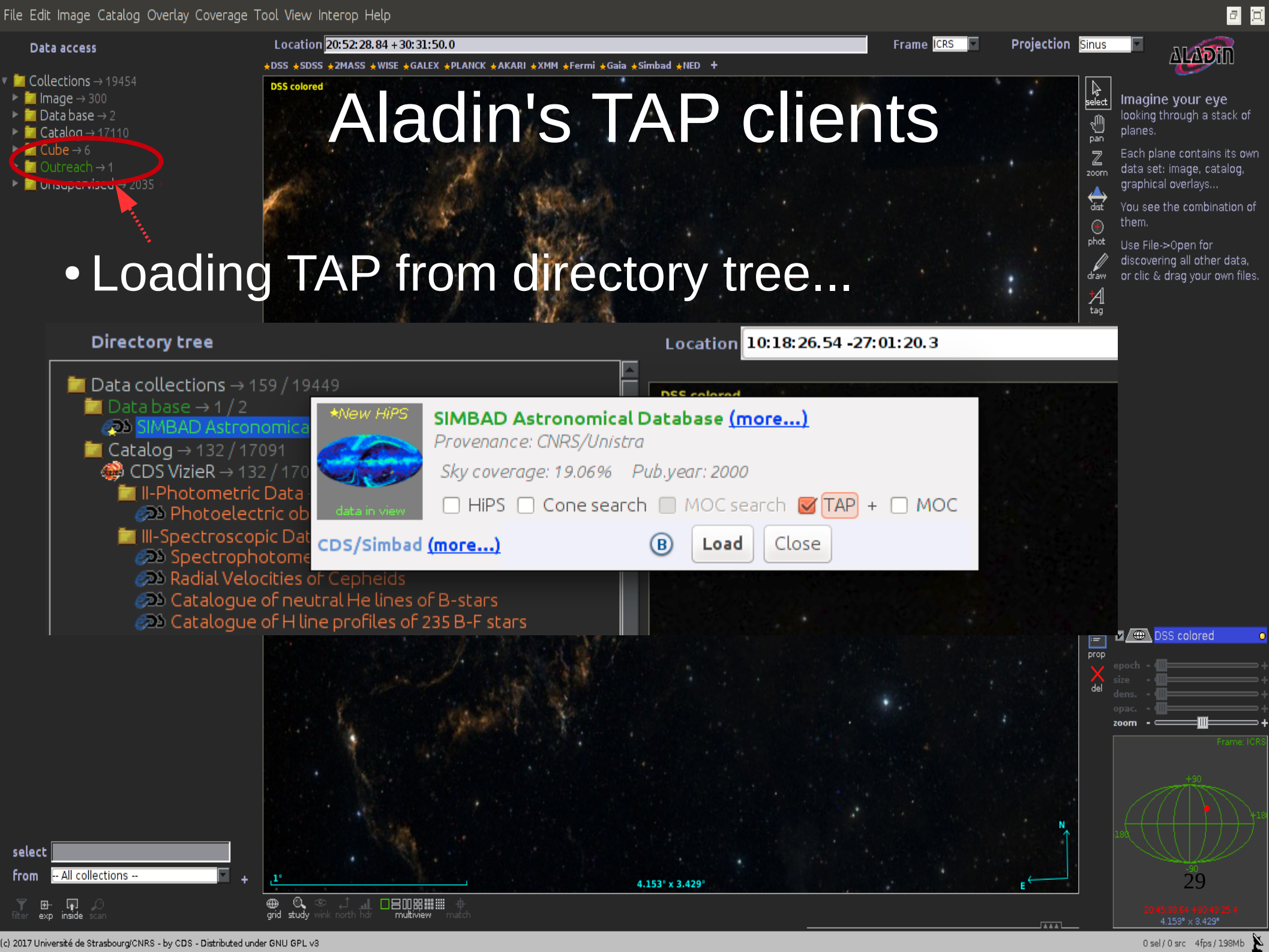
File Edit Image Catalog Overlay Coverage Tool View Interop Help
Data access
Location 20:52:28.84 +30:31:50.0
Frame ICRS
Projection Sinus
DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED
Collections → 19454
Image → 300
Data base → 2
Catalog → 17110
Cube → 6
Outreach → 1
DSS colored
Aladin's TAP clients
• Loading TAP from directory tree...
Imagine your eye
looking through a stack of planes.
Each plane contains its own data set: image, catalog, graphical overlays...
You see the combination of them.
Use File->Open for discovering all other data, or clic & drag your own files.
Directory tree
Location 10:18:26.54 -27:01:20.3
Data collections → 159 / 19449
Data base → 1 / 2
SIMBAD Astronomica
Catalog → 132 / 17091
CDS VizieR → 132 / 170
II-Photometric Data
Photoelectric ob
III-Spectroscopic Dat
Spectrophotome
Radial Velocities of Cepheids
Catalogue of neutral He lines of B-stars
Catalogue of H line profiles of 235 B-F stars
*New HiPS
data in view
SIMBAD Astronomical Database (more...)
Provenance: CNRS/Unistra
Sky coverage: 19.06% Pub.year: 2000
HiPS Cone search MOC search TAP + MOC
CDS/Simbad (more...)
Load
Close
DSS colored
select
from -- All collections --
filter exp inside scan
grid study wink north hdr multiview match
4.153° x 3.429°
29
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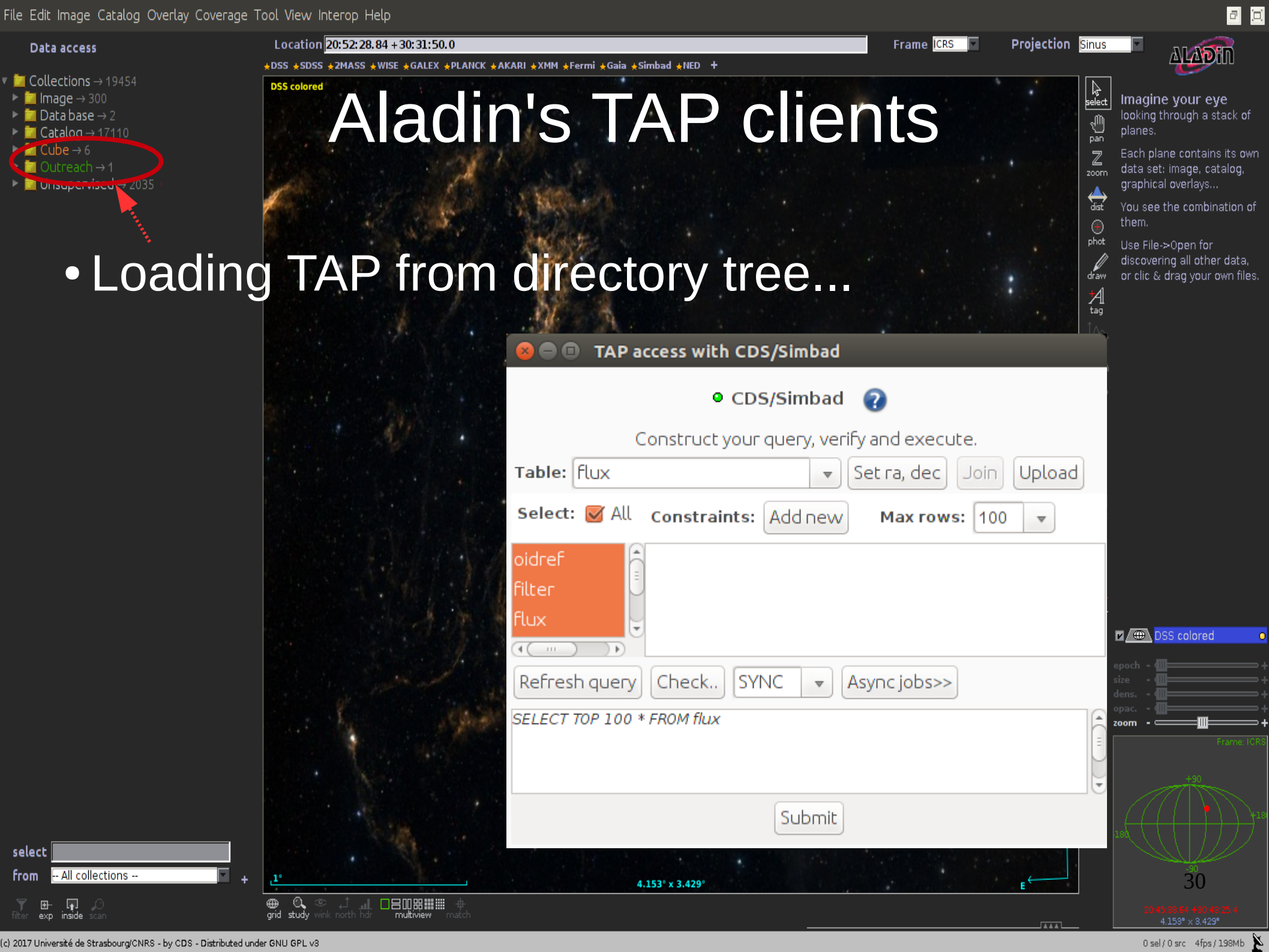

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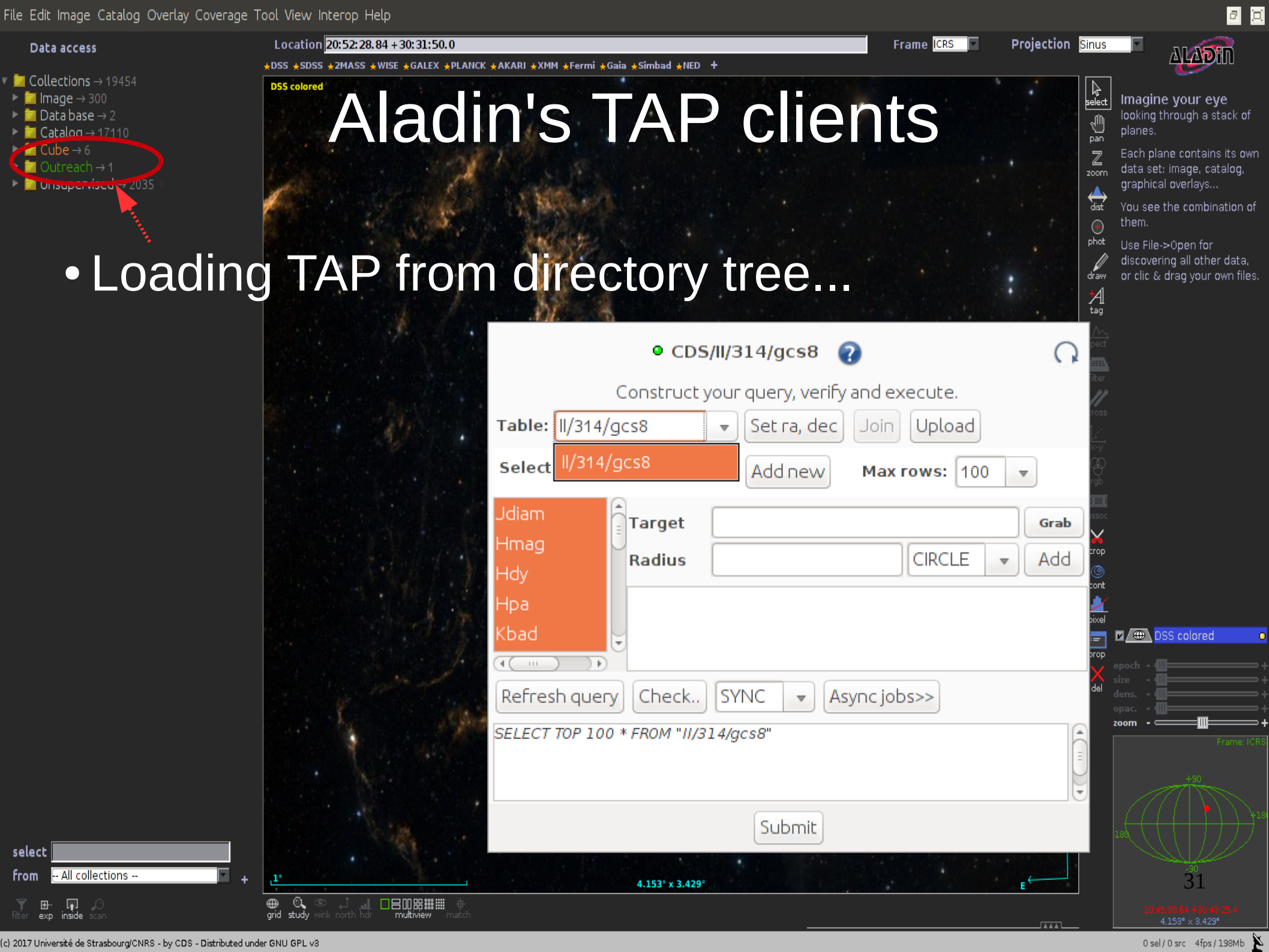
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Data access
Location 20:52:28.84 +30:31:50.0
Frame ICRS
Projection Sinus
DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED
Collections → 19454
Image → 300
Data base → 2
Catalog → 17110
Cube → 6
Outreach → 1
Unsupervised → 2035
DSS colored
Aladin's TAP clients
• Loading TAP from directory tree...
CDS/II/314/gcs8
Construct your query, verify and execute.
Table: II/314/gcs8
Set ra, dec
Join
Upload
Select
II/314/gcs8
Add new
Max rows: 100
Jdiam
Hmag
Hdy
Hpa
Kbad
Target
Grab
Radius
CIRCLE
Add
Refresh query
Check..
SYNC
Async jobs>>
SELECT TOP 100 * FROM "II/314/gcs8"
Submit
Imagine your eye
looking through a stack of planes.
Each plane contains its own data set: image, catalog, graphical overlays...
You see the combination of them.
Use File->Open for discovering all other data, or clic & drag your own files.
DSS colored
select
from
-- All collections --
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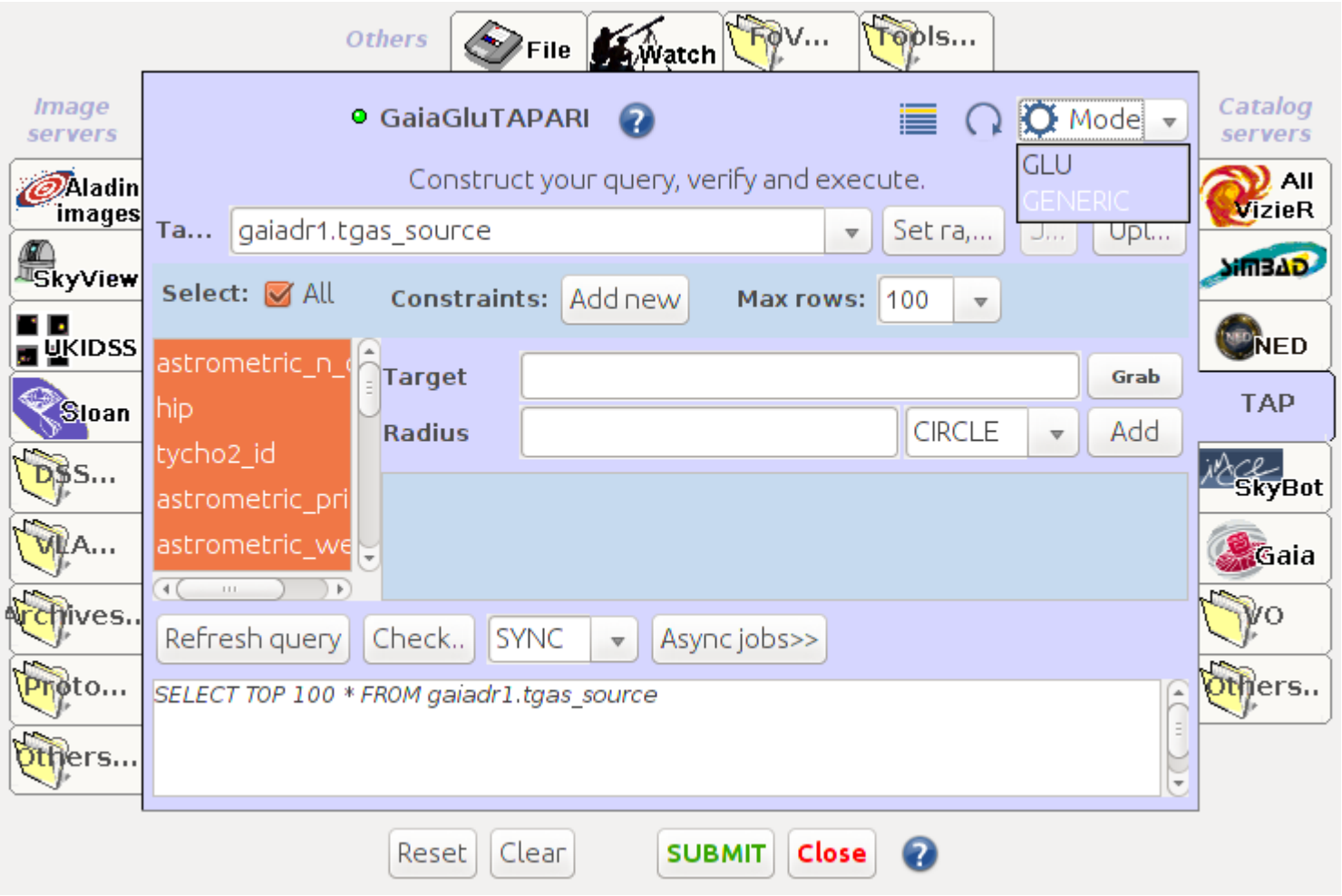
Conclusions

- Improve usability
  - Using of interface and/or writing GLU records
  - Swapping between GLU and generic TAP forms
  - Different modes coming up
- Features to be added
  - Join, Glu upload
  - TAP Async query job saving
- MultiTAP

Aladin's TAP clients



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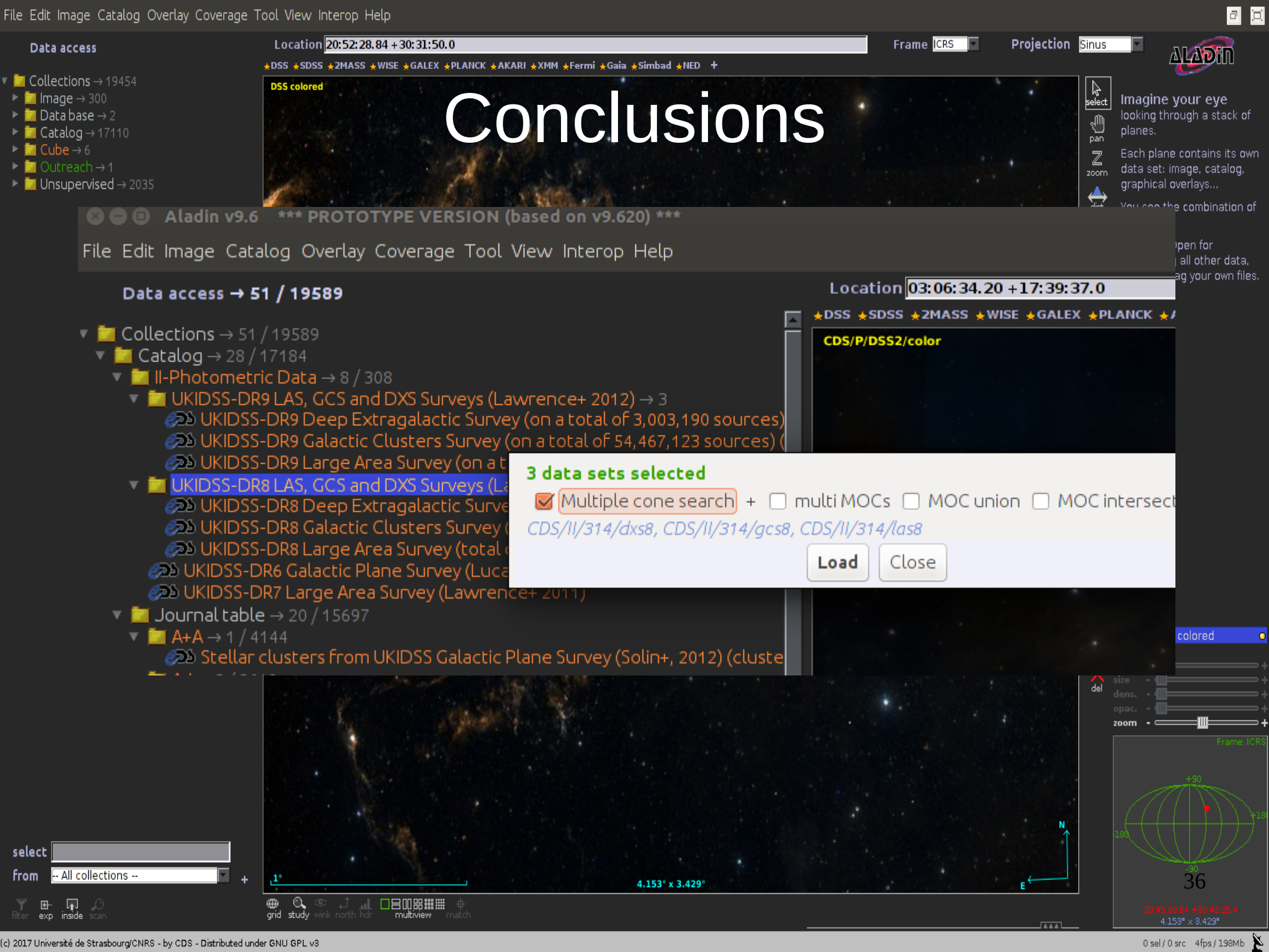

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  - UWS job saving
- MultiTAP

Thank you!

http://aladin.u-strasbg.fr/java/AladinProto.jar