

Datalink and TAP in Aladin (*the updates*)

ASTERICS DADI Technology Forum 4



Contents

SIAV2/SODA/Datalink updates in Aladin

- 1.SODA async
- 2.Conclusions

Aladin's TAP client updates

- 3.Join feature
- 4.Template tap client
- 5.Obscore tap client
- 6.Conclusions

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SIAV2/SODA/Datalink in Aladin

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Available data Command 23:30:13.64 +15:45:39.5 Frame ICRS Projection Aitoff

DSS PanSTARRS SDSS 2MASS GALEX Gaia Simbad NED +

X-ray → 24
UV → 27
ROSATWFC → 3
ROSAT Wide
ROSAT Wide
ROSAT Wide
GALEX → 3
GALEXGR6 A
GALEXGR6 A
GALEXGR6 A
Swift → 15
HST → 6
Optical → 75
HST → 28
Skymapper → 7
SDSS → 7
CFHTLS → 12
Swift → 6
UVOT → 6
Combined S
Combined S
Combined S

DSS2 color

15" 1.804' x 55.19"

This source at the reticle location (z) Search

grid study wink north hdr multiview match

access url dataproduct t... dataproduct su... calib level obs collection obs id
<http://datalink.wfc3-cube>
This cube, larger coverage lower resolution
<http://datalink.wfc3-cube>
This cube, smaller coverage higher resolution
<http://datalink.wfc3-cube>
<http://datalink.wfc3-cube>

An interactive service on this dataset.
An interactive service on this dataset.
The full dataset. (size 145575360 byte)
A preview for the dataset.

Welcome to Aladin,
your professional sky atlas.
• Discover all astronomical data available over the net!
• Compare them ...

select cont
pan pixel
dist prop
phot del
draw
tag
moc
spect
filter
cross
x-y
rgb
assoc
crop

epoch size dens. opac. zoom

163.49809 -60.4

+90 +18
L80 -90
23:30:13.64 +15:45:39.5
1.804' x 55.19"

(c) 2018 Université de Strasbourg/CNRS - d 4 sel / 7 src 406Mb

SIAV2/SODA/Datalink in Aladin

Aladin v10.0 *** PROTOTYPE VERSION (based on v10.076) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Available data → 21208 / 2121 Command Frame CRS Projection Aitoff

DSS PanSTARRS SDSS 2MASS GALEX Gaia Simbad NED +

Service dc.zah.uni-heidelberg.de

• Cutout prototype for SODA server ?
Fill in all these fields and press the SUBMIT button

Target (ICRS, name) 23 30 15.31866 +15 45 25.4362

Radius 18.65"

Time

Band 0.0 1.0E-6

Pol I
Q
U

ID :adr3/COMB/UGC12633.COMB.rscube.fits

ASYNC

Reset Clear Submit Close

grid study wink north hdr multiview match

Adjust the visible area (clic&drag + m) Search

select

From all collections

access url dataproduct t... dataproduct su... calib level obs collection obs id

http://dc.zah.un	cube		3	CALIFA	califa/adr3/
http://dc.zah.un	cube		3	CALIFA	califa/adr3/

ALADIN

Welcome to Aladin your professional sky atlas.

- Discover all astronomical data available over the network.
- Compare them with your own data.
- Prepare your observation mission

org.gavo.dc-t

epoch size dens. opacity zoom

cross

x-y

rgb

assoc

crop

cont

pixel

05 26 13.74513

+90
180
-90

SIAV2/SODA/Datalink in Aladin

Aladin v10.0 *** PROTOTYPE VERSION (based on v10.076) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Available data → 21208 / 2121 Command 23:30:20.85 +15:45:30.7 Frame CRS Projection Aitoff

DSS PanSTARRS SDSS 2MASS GALEX Gaia Simbad NED +

DSS2 color

The screenshot shows the Aladin software interface. The main window displays a star field with a large circular selection centered on a bright star. Below the selection, the text "4.517' x 3.102'" indicates the size of the field. The left sidebar lists "Available data" (21208 / 2121), including collections, images, databases, catalogs, cubes, solar system objects, ancillary data, outreach, and others. The top menu bar includes File, Edit, Image, Catalog, Overlay, Coverage, Tool, View, Interop, and Help. The toolbar at the top has buttons for DSS, PanSTARRS, SDSS, 2MASS, GALEX, Gaia, Simbad, and NED. The right side features a welcome message, a list of tools (select, pan, dist, phot, draw, tag, moc, spect, filter, cross, x-y, rgb, epoch, size, assoc, dens, opac, zoom, crop, cont, pixel), and a search bar. The bottom right corner shows a coordinate display with values 23 30 15.31866 +15 45.

Welcome to Aladin,
your professional sky
atlas.

- Discover all astronomical data available over the net!
- Compare them with your own data.
- Prepare your observation missions.

To start, type any object name, such as M1, and press ENTER...

1' 4.517' x 3.102'

grid study wink north hdr multiview match

Search

23 30 15.31866 +15 45

SIAV2/SODA/Datalink in Aladin

Aladin v10.0 *** PROTOTYPE VERSION (based on v10.076) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Available data → 21208 / 2121 Command Frame CRS Projection Aitoff

DSS PanSTARRS SDSS 2MASS GALEX Gaia Simbad NED +

Service dc.zah.uni-heidelberg.de

○ Cutout prototype for SODA server ?
Fill in all these fields and press the SUBMIT button

Target (ICRS, name) 23 30 11.97044 +15 45 29.3300

Radius 21.68"

Time

Band 0.0 1.0E-6

Pol I
Q
U

ID :adr3/COMB/UGC12633.COMB.rscube.fits

ASYNC
SYNC
ASYNC

Reset Close

This cube, larger coverage lower resolution
This cube, smaller coverage higher resolution
An interactive service on this dataset.
An interactive service on this dataset.
The full dataset. (size 145575360 byte)
A preview for the dataset.

select from all collections

access url dataproduct t... datapro

http://dc.zah.un cube
http://dc.zah.un cube

ALADIN

Welcome to Aladin your professional sky atlas.

- Discover all astronomical data available over the network.
- Compare them with your own data.
- Prepare your observation mission

org.gavo.dc-t

epoch size dens. opacity zoom

cross

x-y

rgb

assoc

crop

cont

pixel

05 26 13.74513

+90
180
-90

SIAV2/SODA/Datalink in Aladin

Aladin v10.0 *** PROTOTYPE VERSION (based on v10.076) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Available data → 21208 / 2121 Command Frame CRS Projection Aitoff

Service dc.zah.uni-heidelberg.de

Cutout prototype for SODA server ?
Fill in all these fields and press the SUBMIT button

Target (ICRS, name) 23 30 15.31866 +15 45 25.4362

Radius 18.65"

Time

Band 0.0 1.0E-6

Pol I
Q
U

ID :adr3/COMB/UGC12633.COMB.rscube.fits

ASYNC

Reset Clear Submit Close

This cube, larger coverage lower resolution
This cube, smaller coverage higher resolution
An interactive service on this dataset.
An interactive service on this dataset.
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A preview for the dataset.

access url dataproduct t... dataproduct
http://dc.zah.un cube
http://dc.zah.un cube

Welcome to Aladin your professional sky atlas.
Discover all astronomical data available over the network.
Compare them with your own data.
Prepare your observation mission.
org.gavo.dc-t
CDS/P/DSS2
epoch size dens. opac. zoom
cross
x-y
rgb
assoc
crop
cont
pixel

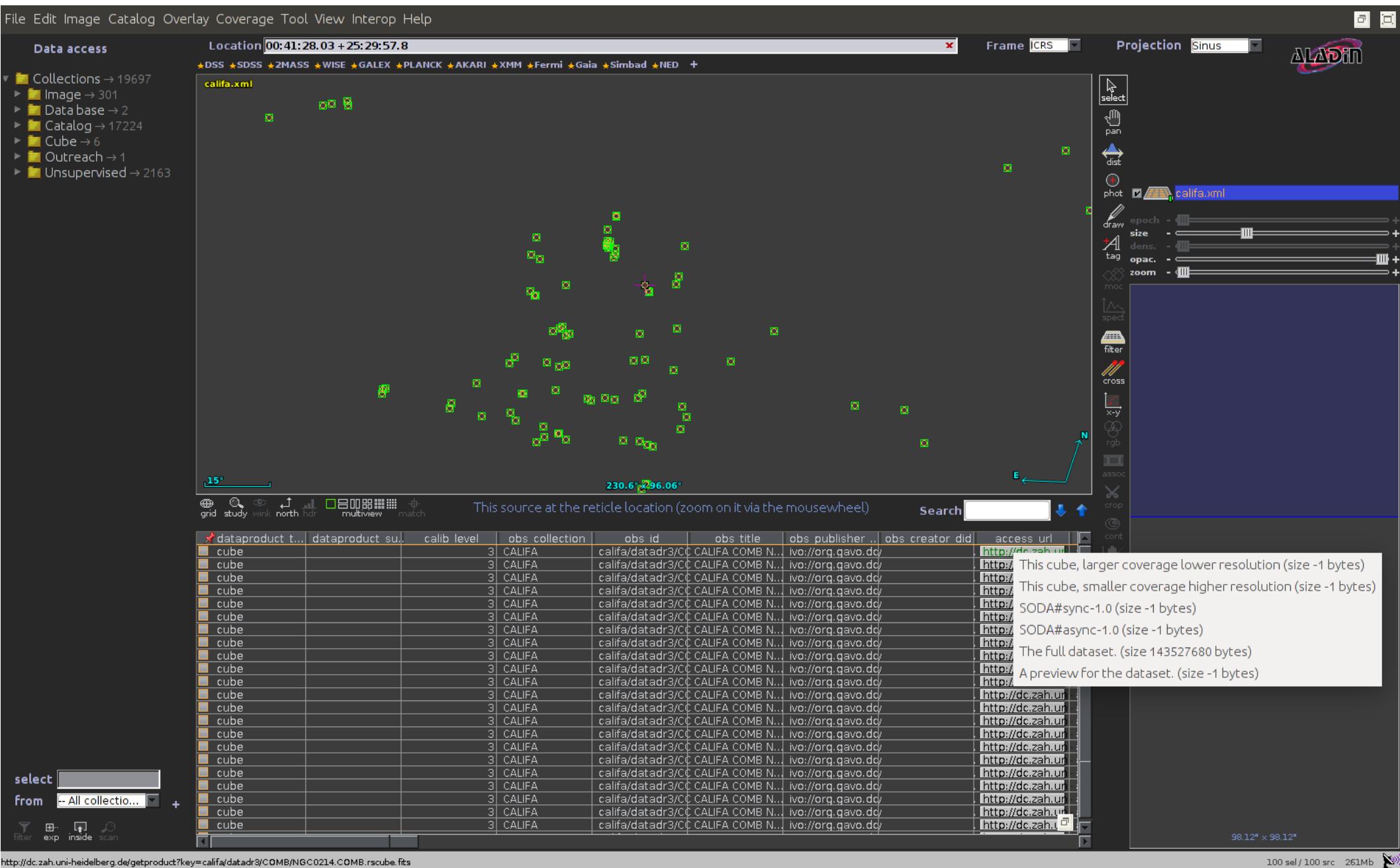
05 26 13.74513
+90
180
-90

Sync/Async of same service?

Conclusions

1. Need to resolve issues with Aladin and implement handling of more usecases
2. Better description of services
3. Distinctive way to identify a datalink
 - Logic in progress with IVOA DAL WG..
 - Datalink identified at stream: (based on the presence of 4 column names: ID, access_url, service_def and semantics)

SIAV2/SODA/Datalink in Aladin



Conclusions

1. Need to resolve issues with Aladin and implement handling of more usecases
2. Better description of services
3. Distinctive way to identify a datalink
 - Logic in progress with IVOA DAL WG..
 - Datalink identified at stream: (based on the presence of 4 column names: ID, access_url, service_def and semantics)

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Join feature

- With server table or upload table
- Position, foreign-key relation, free

Join feature

Server selector

CDS/Simbad Mode: Generic

Table: basic Set ra, dec Join

Select: All Constraints: Add new Max rows: 9999

oid main_id nbref otype_txt otype

Target Radius CIRCLE Add

Refresh query Check.. SYNC Async jobs>> Upload

SELECT TOP 9999 * FROM basic

Reset Clear SUBMIT Close ?

Create simple join constraints

Add join constraints by selecting the tables and conditions.

With server tables: otypes

With uploaded table... (org.gavo.dc-tap~2.xml) TAP_U...

Choose constraint for joining the tables

Join for this column: oid = oidref

If located close within the radius of:

Join for this column: oid = oidref

Write this join query

The screenshot shows the Aladin software interface. On the left is the 'Server selector' window, which includes a toolbar with 'File', 'FoV...', and 'Tools...', and a sidebar with links like 'Image servers', 'Aladin images', 'SkyView', 'Sloan', 'DSS...', 'VLA...', 'Archives...', 'Proto...', and 'Others...'. The main area of the selector has a table dropdown set to 'basic', a 'Set ra, dec' button, and a 'Join' button. Below these are 'Select' and 'Constraints' buttons, and a 'Max rows' input field set to 9999. A list of columns ('oid', 'main_id', 'nbref', 'otype_txt', 'otype') is shown in an orange box. At the bottom are 'Refresh query', 'Check..', 'SYNC', 'Async jobs>>', and 'Upload' buttons, along with a SQL query editor containing 'SELECT TOP 9999 * FROM basic'. At the very bottom are 'Reset', 'Clear', 'SUBMIT', 'Close', and a help button. To the right of the selector is a modal dialog titled 'Create simple join constraints'. This dialog has a header 'Add join constraints by selecting the tables and conditions.' and two radio buttons: 'With server tables: otypes' (selected) and 'With uploaded table... (org.gavo.dc-tap~2.xml) TAP_U...'. It also contains a section 'Choose constraint for joining the tables' with three radio buttons: 'Join for this column: oid = oidref' (selected), 'If located close within the radius of:', and 'Join for this column: oid = oidref'. Below this is a 'Write this join query' button. The status bar at the bottom right shows coordinates 'SAO70467 +90' and other navigation icons.

Join feature

The screenshot shows the Aladin software interface. On the left, the 'Server selector' window is open, showing various image servers like Aladin images, SkyView, Sloan, DSS, VLA, Archives, Photo, and Others. The main window is titled 'CDS/Simbad' and shows a query builder. The 'Table' dropdown is set to 'basic'. Under 'Select', 'All' is checked. In the 'Constraints' section, 'Add new' is selected, and a target 'm31' is specified with a 'Radius' of 4 arcseconds, centered at Ra=10.68470 Dec=41.26875. The query results show columns: basic.oid, basic.main_id, basic.nbreff, basic.otype_txt, and basic.otype. Below the table, the generated SQL query is:

```
SELECT TOP 9999 * FROM basic JOIN otypes AS otypes ON basic.oid = otypes.oidref  
WHERE CONTAINS(POINT('ICRS', basic.ra, basic.dec), CIRCLE('ICRS', 10.68470,  
41.26875, 0.06666)) = 1
```

To the right, a 'Create simple join constraints' dialog is open. It has two tabs: 'With server tables' (selected) pointing to 'otypes', and 'With uploaded table...' (disabled). It allows selecting constraints for joining tables, with 'Join for this column: oid = oidref' selected. A 'Write this join query' button is present, and the resulting query is shown below:

```
otypes (basic.oid = otypes.oidref)
```

Aladin's TAP new features

The screenshot shows the Aladin software interface. The main window displays a star map with a color-coded field labeled "DSS2 color". A cluster of stars is highlighted with green and blue circles. The map includes a scale bar (1°) and a coordinate indicator (20.09° x 14.56°). The top right corner features a "Welcome to Aladin" message with a list of features: Discover all astronomical data available over the net!, Compare them with your own data., Prepare your observation missions., To start, type any object name, such as M1, and press ENTER..., and Or easier, clic in the main frame and enjoy the sky... Below this is a legend for various tools: select, pan, dist, phot, draw, tag, moc, spect, filter, cross, x-y, rgb, epoch, assoc, size, dens., opac., crop, zoom, cont, pixel, prop, and del. On the left, a sidebar lists "collections" and "SIMBAD Astronomical Database". At the bottom, there is a search bar and a table of database results.

DSS2 color

Welcome to Aladin,
your professional sky
atlas.

- Discover all
astronomical data
available over the net!
- Compare them with your
own data.
- Prepare your
observation missions.

To start, type any object
name, such as M1, and
press ENTER...

Or easier, clic in the main
frame and enjoy the sky...

Collections

- collections → 21208
- | Image → 341
- | Data base → 4
- | SIMBAD Astronomical Database
- | Sky Body Tracker
- | The NASA/IPAC Extragalactic Database
- | The Legacy Aladin server
- | Catalog → 19565
- | Cube → 8
- | Solar system → 47
- | Ancillary → 7
- | Outreach → 44
- | Others → 1180
- | Problematic → 4
- | Unsupervised → 8

SIMBAD Astronomical Database

Sky Body Tracker

The NASA/IPAC Extragalactic Database

The Legacy Aladin server

Catalog → 19565

Cube → 8

Solar system → 47

Ancillary → 7

Outreach → 44

Others → 1180

Problematic → 4

Unsupervised → 8

DSS2 color

1°

20.09° x 14.56°

Search

oidref	h	otype
7818971	161	0612736
7818971	161	0612736
7818971	-849	674240
10060418	-849	674240

SAO70467

grid study wink north hdr multiview match

select

From -- all collections --

180 0 180 180 90 -90

Join feature

Create simple join constraints

Add join constraints by selecting the tables and conditions.

With server tables: otypes
 With uploaded tables: (CDS/Simbad) TAP_UPLOAD.AladinTable27

Choose constraint for joining the tables

Join for this column:
 If located close within the radius of:
 Join for this column: oid = coo_err_angle

Write this join query

```

x otypes (basic.oid = otypes.oidref)
x AladinTable20 (1 =CONTAINS (POINT('ICRS', basic.ra, basic.dec), CIRCLE('ICRS', AladinT

```

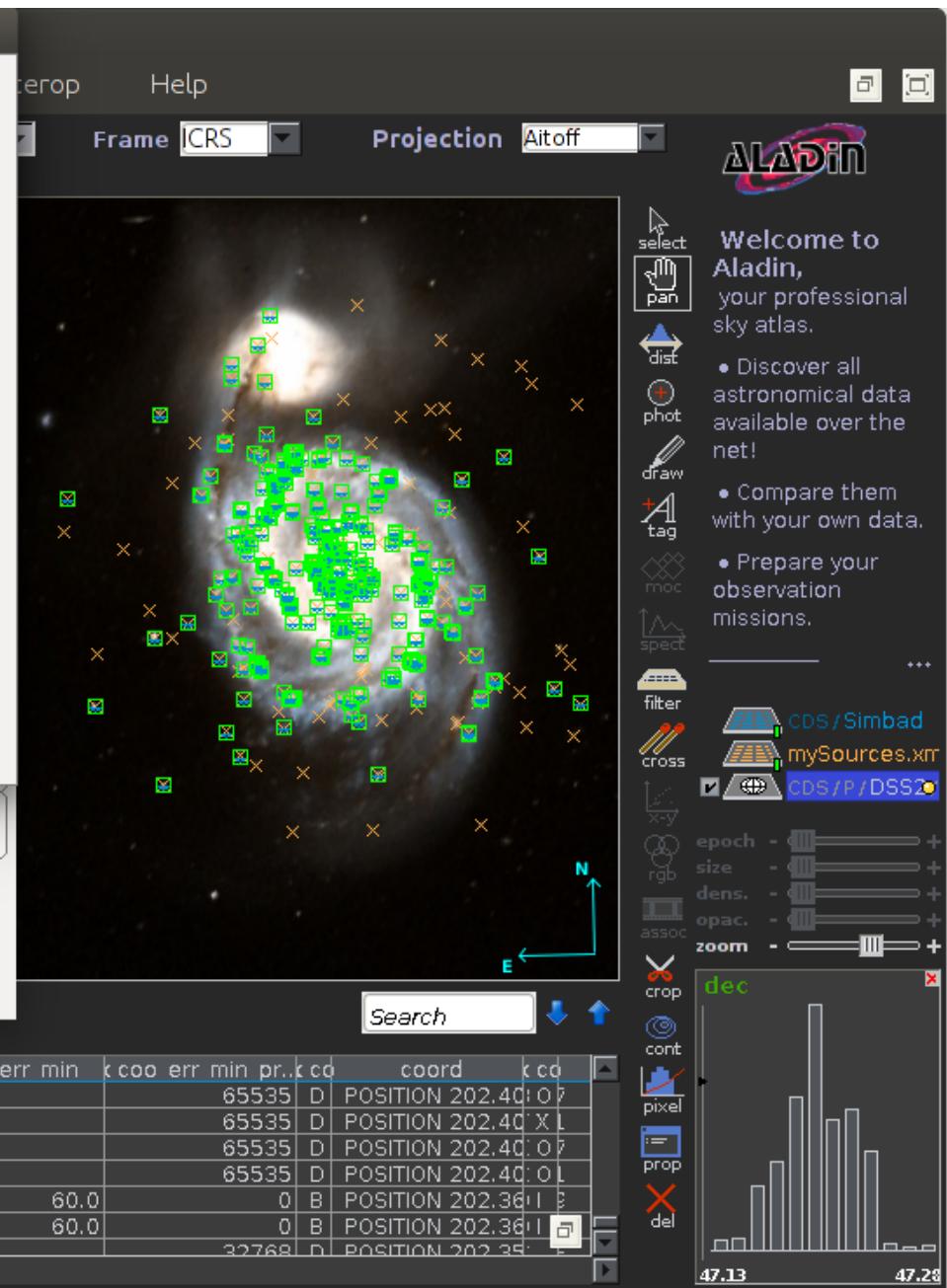
```

SELECT TOP 9999 * FROM basic JOIN otypes AS otypes ON basic.oid = otypes.oidref
JOIN TAP_UPLOAD.AladinTable20 AS AladinTable20 ON 1 =CONTAINS (POINT('ICRS', basic.ra, basic.dec), CIRCLE('ICRS', AladinTable20.ra, AladinTable20.dec, 2/3600.))

```

Others...

Reset Clear Close



Contents

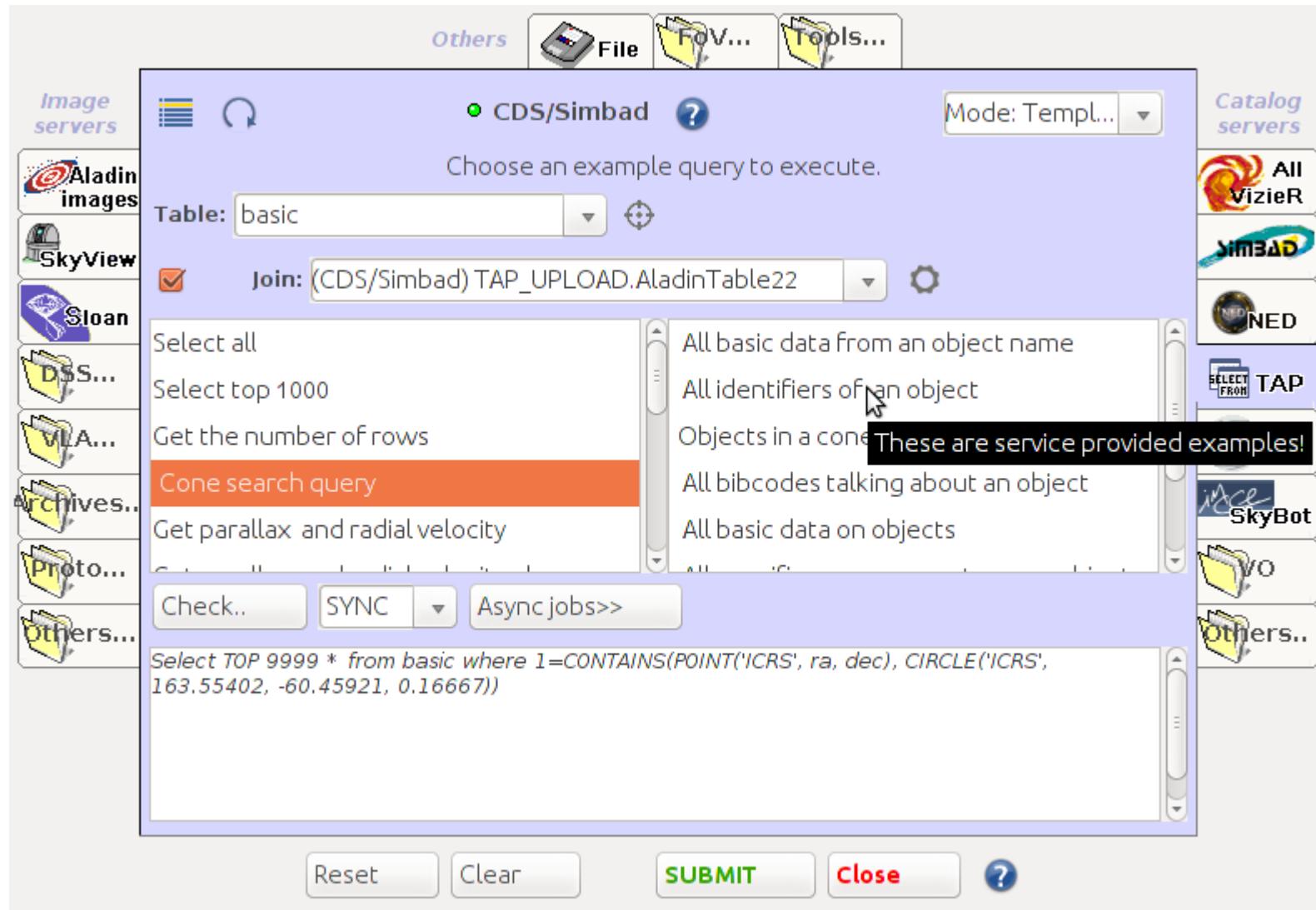
SIAV2/SODA/Datalink updates in Aladin

- 1. SODA async
- 2. Conclusions

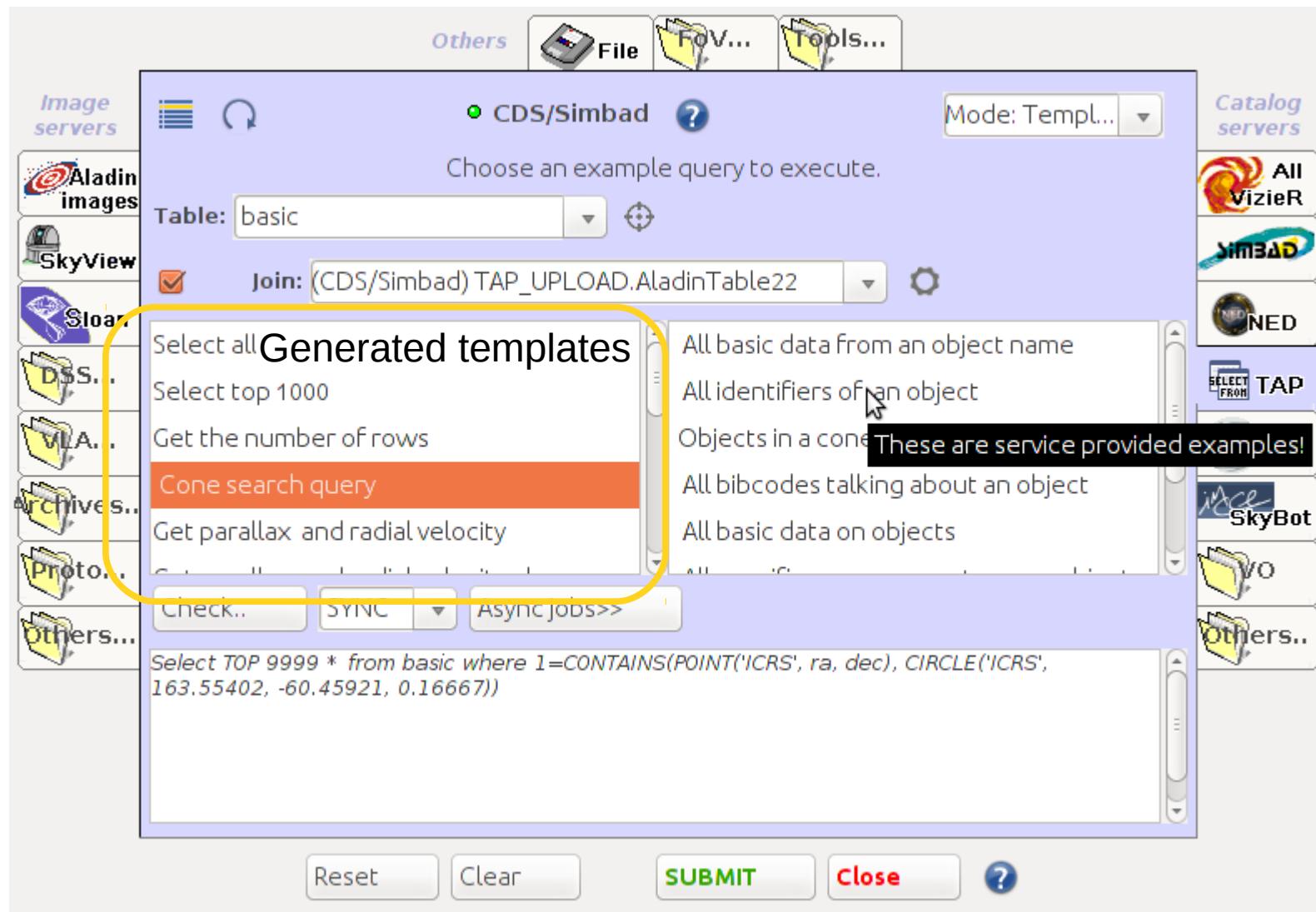
Aladin's TAP clients updates

- 3. Join feature
- 4. Template tap client
- 5. Obscore tap client
- 6. Conclusions

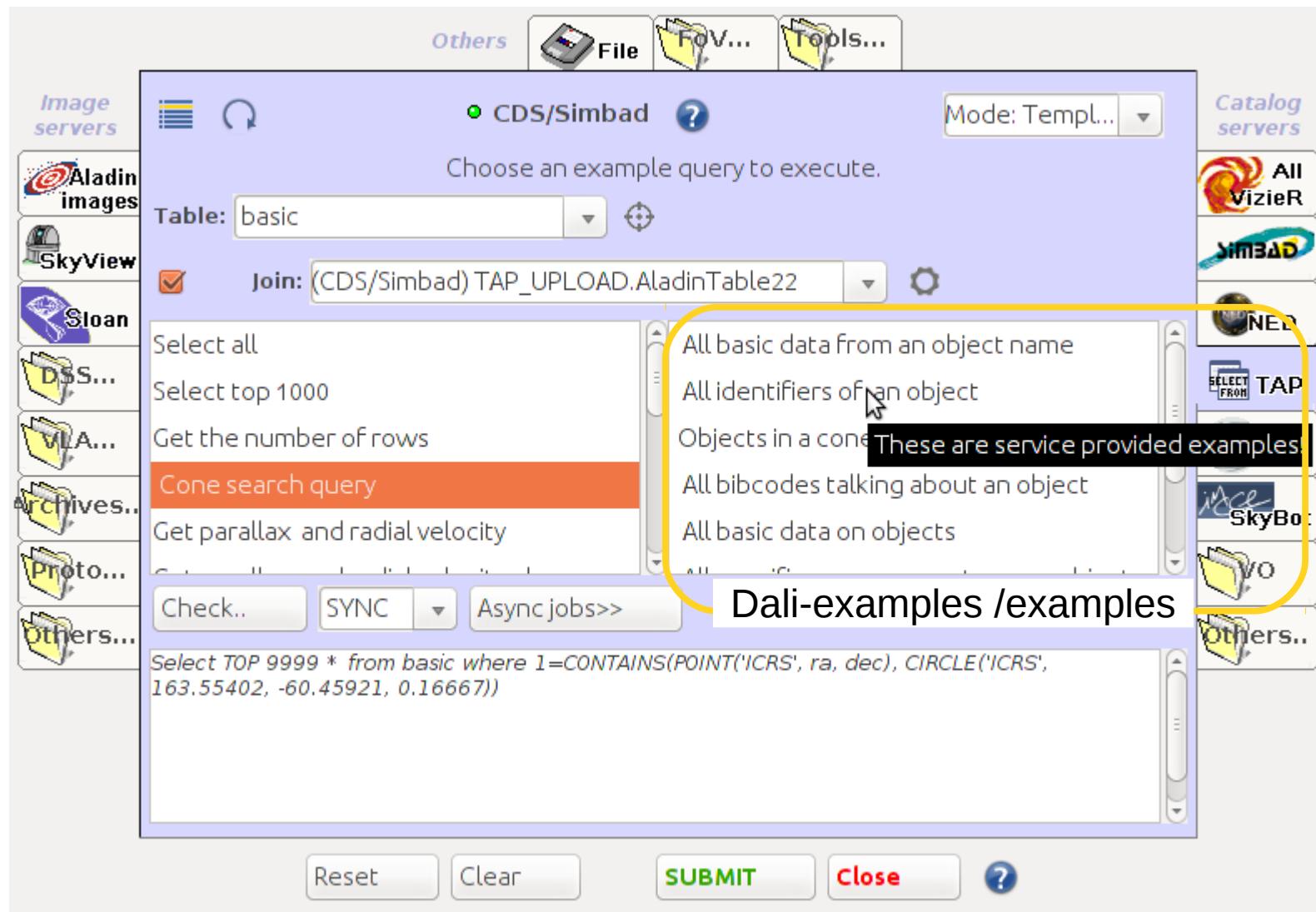
Template tap client



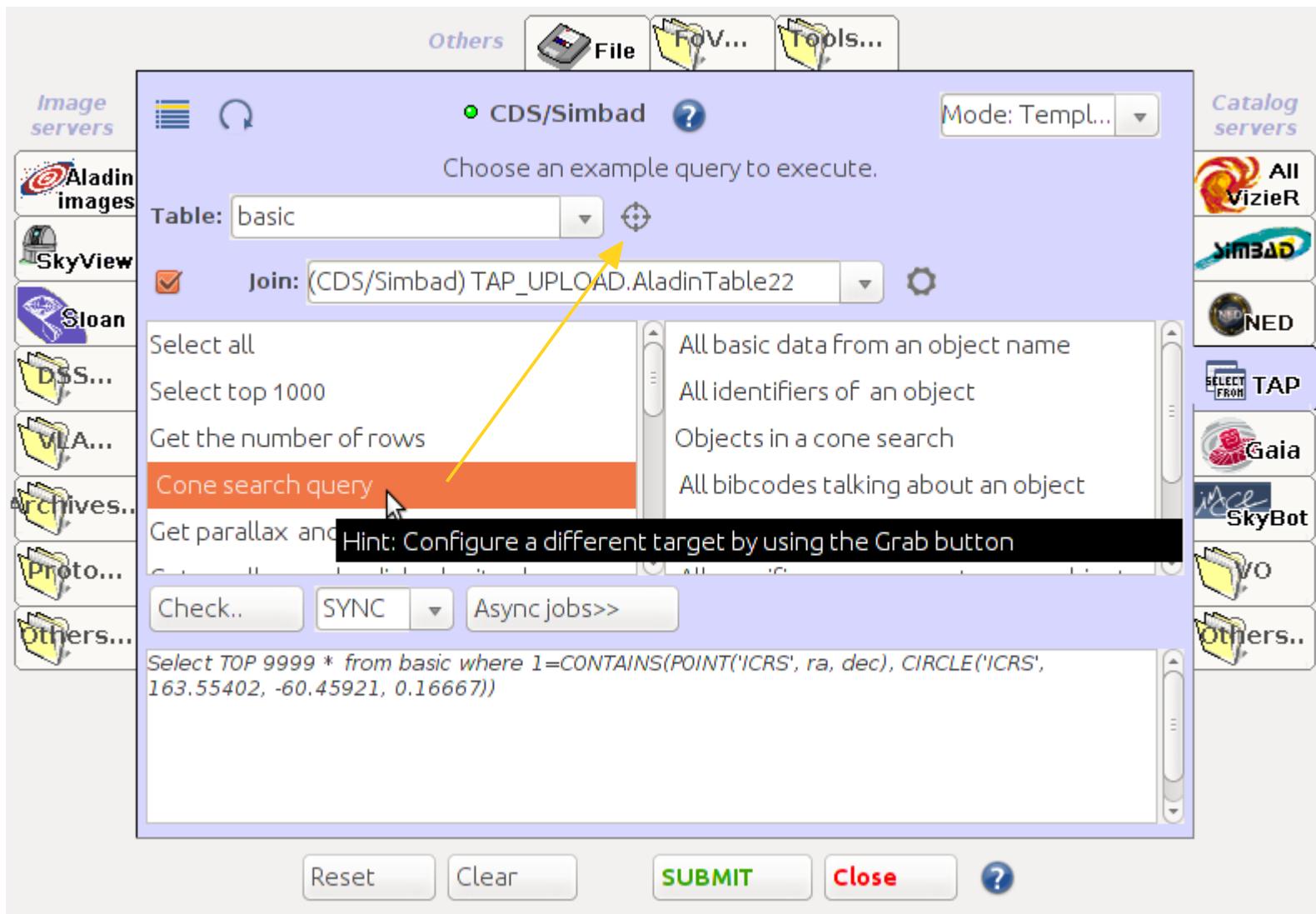
Template tap client



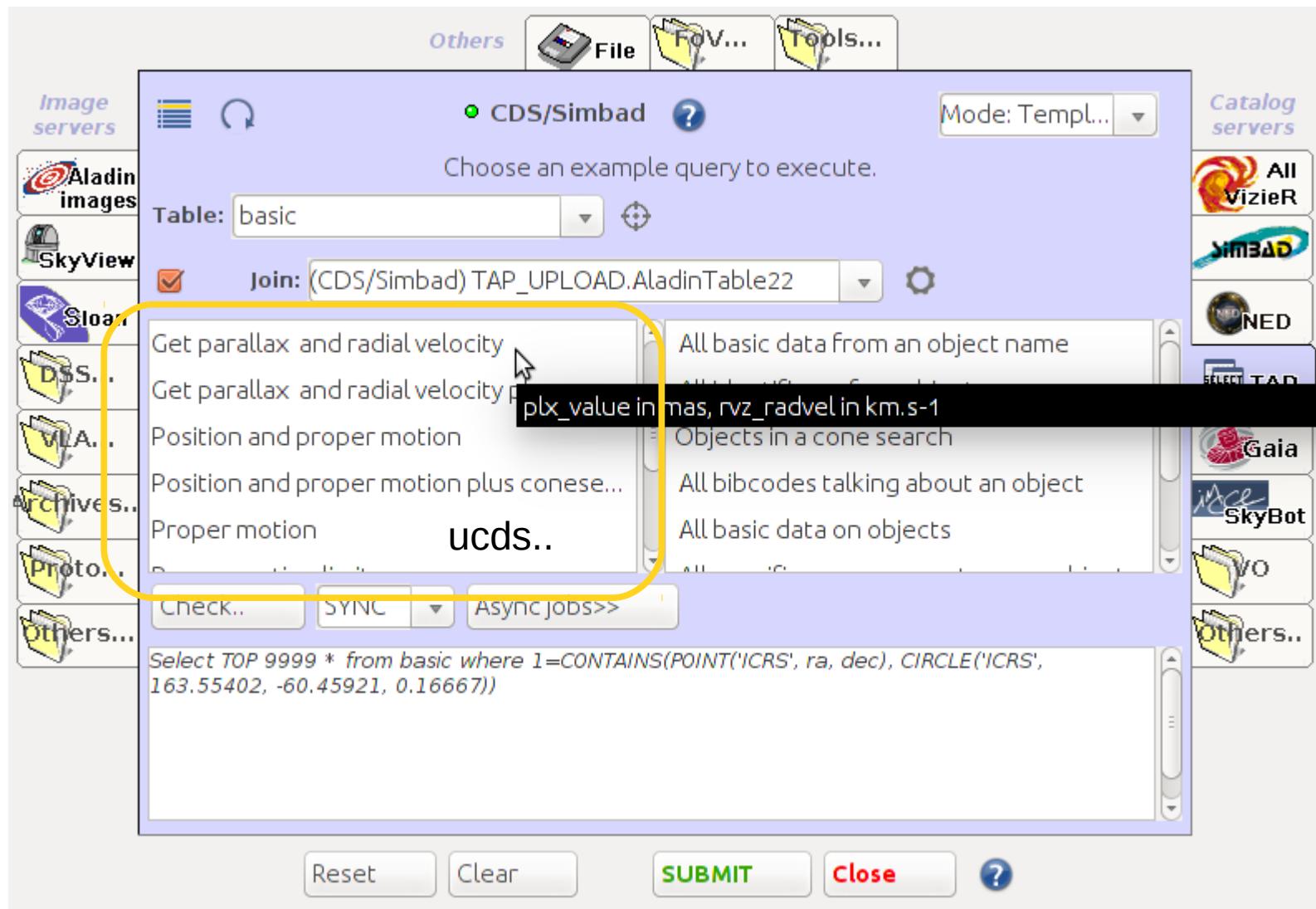
Template tap client



Template tap client



Template tap client



Template tap client

Server selector

Others File FOV... Tools...

CDS/Simbad ? Mode: Templ...

Choose an example query to execute.

Table: basic Join: (CDS/Simbad) TAP_UPLOAD.AladinTable1

Proper motion limits

Select main_id, ra, dec, rvz_redshift
Select main_id, ra, dec, rvz_redshift p...

Check.. SYNC Async jobs>>

Select TOP 9999 main_id, ra, dec, pmra, pmdec,
 $\text{SQRT}(\text{POWER(pmra,2)}+\text{POWER(pmdec,2)})$ as pm from basic WHERE
 $\text{SQRT}(\text{POWER(pmra,2)}+\text{POWER(pmdec,2)}) > 20$

Reset Clear SUBMIT Close ?

grid study wink north hdr multiview match

Catalog servers

- All VizieR
- SIMBAD
- NED
- TAP
- Gaia
- SkyBot
- VO
- Others...

ALADIN

Welcome to Aladin, your professional sky atlas.

- Discover all astronomical data available over the net!
- Compare them with your own data.
- Prepare your observation missions.

To start, type any ...

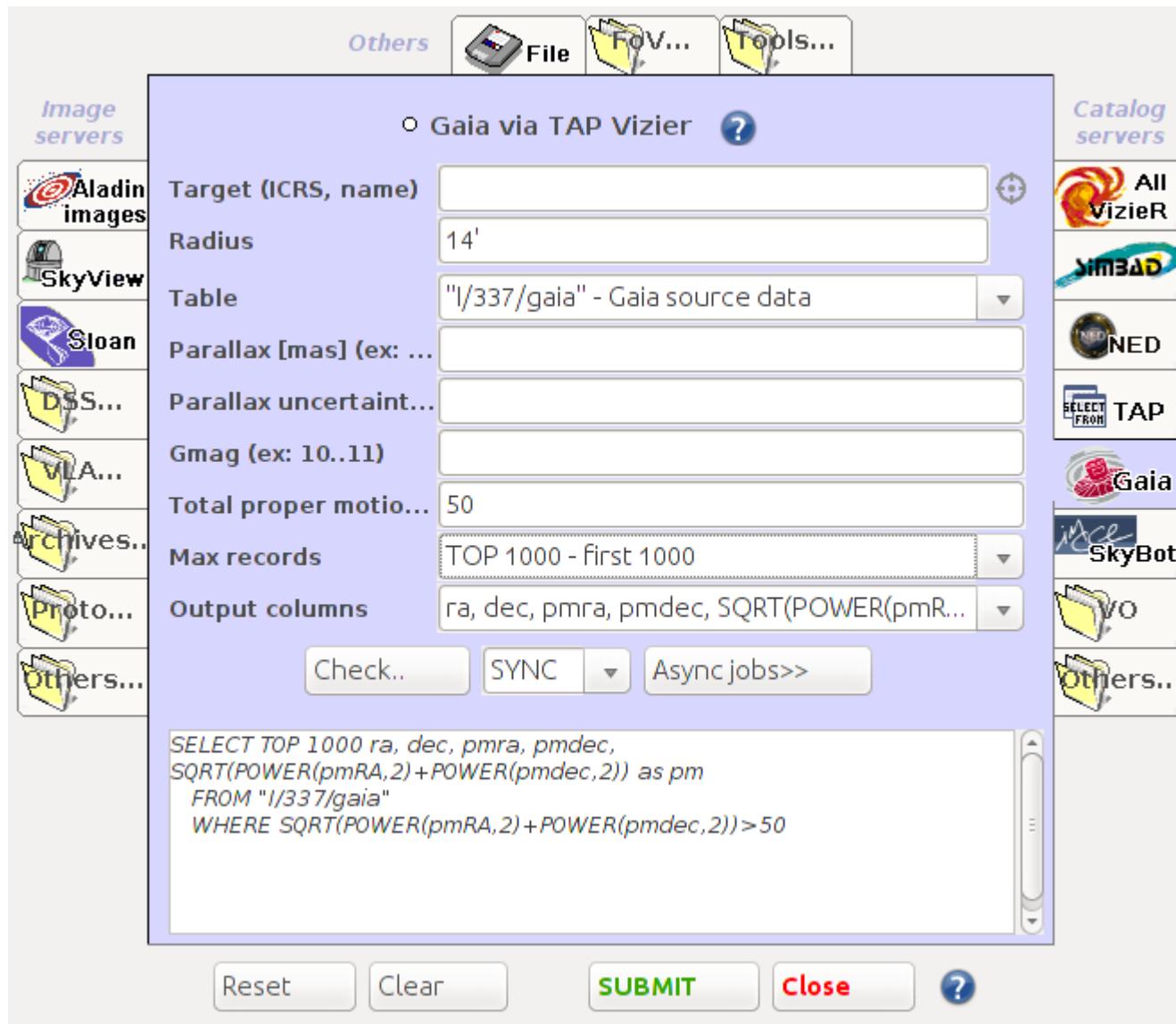
Search

main id	ra	dec	pmra	pmdec	pm
UCAC2 33429...	269.990821	4.598942	-14.7	-14.1	20.369094
TYC 994-1499...	266.809109	8.844841	-1.799	-39.197	39.238262
TYC 994-240-1	266.8114408	8.847582	-5.633	-43.158	43.524058
2MASS J1812556	273.231908	11.602548	-25.3	24.1	34.941379
2MASS J1846107	281.544764	10.551941	-16.4	-27.4	31.933055
2MASS J1846209	281.587148	10.503709	-19.4	-33.1	38.366261
2MASS J1846460	281.691769	11.09897	-21.2	-16.8	27.049584
UGCS J174207.6	265.531882	5.172271	9.85	-38.68	39.91447
UGCS J174348.2	265.951045	5.703929	-19.43	-8.57	21.23605
UGCS J174349.1	265.954572	4.876473	-2.0	-22.0	22.090722
UGCS J174355.1	265.979948	4.743094	-12.24	-26.21	28.927179
UGCS J174433.3	266.13878	6.001072	-20.22	-51.9	55.699716
UGCS J174519.0	266.329346	5.335037	-11.53	-26.56	28.954697

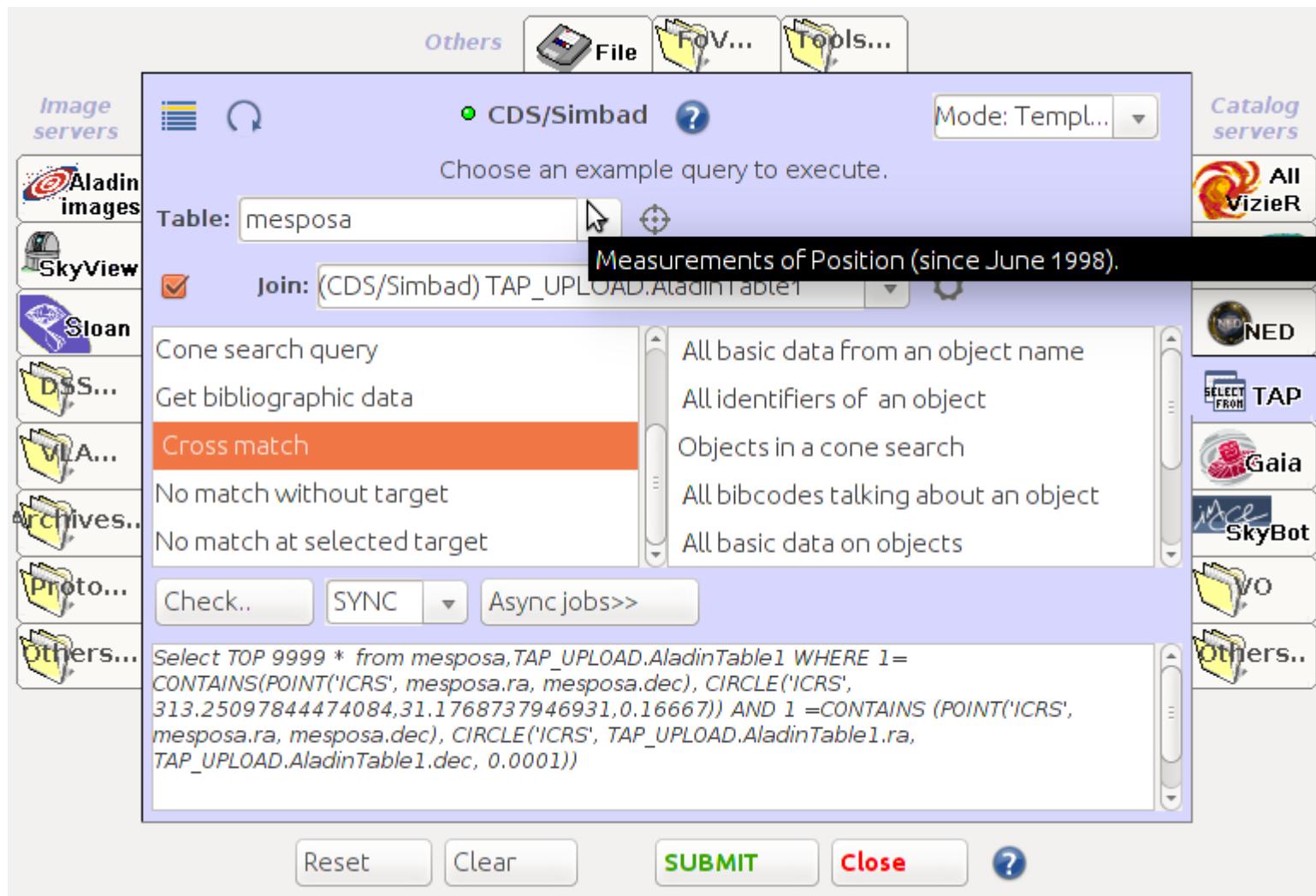
epoch size dens. assoc zoom crop cont pixel prop del

20.37 55.699716

Aladin's TAP clients updates



Template tap client



Template tap client

Choose an example query to execute.

Table: basic

Join: (CDS/Simbad~2) TAP_UPLOAD.AladinTable20

Cross match

No match without target

No match at selected target

Select main_id, ra, dec, rvz_redshift

Select main_id, ra, dec, rvz_redshi...

All basic data from an object name

All identifiers of an object

Objects in a cone search

All bibcodes talking about an objec...

Check.. SYNC Async jobs>>

```
Select TOP 9999 * from basic,TAP_UPLOAD.AladinTable20 WHERE 1=CONTAINS(POINT('ICRS', basic.ra, basic.dec), CIRCLE('ICRS', 265.99407,5.16457,0.5435)) AND 1 =CONTAINS (POINT('ICRS', basic.ra, basic.dec), CIRCLE('ICRS', TAP_UPLOAD.AladinTable20.ra, TAP_UPLOAD.AladinTable20.dec, 0.0001))
```

Reset Clear SUBMIT Close ?

grid study wink north hdr multiview match

Search

18°

Interop Help

Frame CRS Projection Aitoff

All vizier SIMBAD NED SELECT FROM TAP Gaia SkyBot VO Others..

ALADIN

Welcome to Aladin, your professional sky atlas.

- Discover all astronomical data available over the net!
- Compare them with your own data.
- Prepare your observation missions.

epoch size dens. assoc zoom

filter cross crop cont

CDS/Simbad~2 CDS/Simbad CDS/P/DSS2

coo_bibcode	coo_err_angle	coo_err_maj	coo_err_maj_pr..	coo_err_min	coo_err_min_pr..	cd	coord	cd	d
2003yCat.2246...	90	60.0	0	60.0	0	B	POSITION 265.53:N	E	5
2003yCat.2246...	0	80.0	0	60.0	0	B	POSITION 265.95:N	A	5
2003yCat.2246...	90	60.0	0	60.0	0	B	POSITION 265.95:N	?	4
2003yCat.2246...	90	60.0	0	60.0	0	B	POSITION 265.97:N	A	4
2003yCat.2246...	172	70.0	0	70.0	0	B	POSITION 266.32:N	A	5

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- 6. Conclusions

Obscore tap client

The screenshot shows the Obscore tap client interface. At the top, there is a menu bar with "Others", "File", "FoV...", and "Tools...". Below the menu is a toolbar with icons for "Image servers", "Aladin images", "SkyView", "Sloan", "DSS...", "VLA...", "Archives...", "Proto...", and "Others...". On the right side, there is a sidebar titled "Catalog servers" with icons for "All VizieR", "SIMBAD", "NED", "TAP", "Gaia", "SkyBot", "VO", and "Others..". The main window has a title bar "org.vivo.dc/tap" with a question mark icon and a "Mode: Obsc..." dropdown. A sub-header says "Add any obscore criteria and execute query." The central area contains a query builder for the "ivoa.obscore" table. It includes fields for "Select" (set to "*"), "Max rows" (set to 9999), "Dataproduct type" (set to "image"), "Target" (empty), "Radius" (empty), and several filter criteria: "ra", "em_min", "Exposure time", and "dataproduct_type". Below the builder is a "Check.." button, a "SYNC" dropdown, an "Async jobs>>" button, and an "Upload" button. A SQL query "SELECT TOP 9999 * FROM ivoa.obscore" is displayed in a text area at the bottom. At the very bottom are buttons for "Reset", "Clear", "SUBMIT" (in green), "Close" (in red), and a question mark icon.

Is apropos to Aladin (→ for images)
Obscore ← image sources

Table: ivoa.obscore

Select: * Max rows: 9999

Dataproduct type: image

Target:

Radius:

ra

em_min

Exposure time

dataproduct_type

Check.. SYNC Async jobs>> Upload

```
SELECT TOP 9999 * FROM ivoa.obscore
```

Reset Clear SUBMIT Close ?

Obscore tap client

Others File FoV... Tools...

Add any obscore criteria and execute query.

Table: ivoa.obscore

Select: * Max rows: 9999

Dataproduct type: image

Target

Radius

ra

em_min

Exposure time

dataproduct_type

Catalog servers

- All VizieR
- SIMBAD
- NED
- TAP
- Gaia
- SkyBot
- VO
- Others...

Mode: Obsc...

?

Check.. SYNC Asy

SELECT TOP 9999 * FROM ivoa.obscore

Reset Clear **SUBMIT** Close ?

The screenshot shows the Obscore tap client interface. The main window has a purple header bar with tabs for 'Others', 'File', 'FoV...', and 'Tools...'. Below the header is a search bar with the URL 'org.gavo.dc/tap' and a help icon. To the right of the search bar is a dropdown menu labeled 'Mode: Obsc...' with a downward arrow. The main area contains fields for 'Table' (set to 'ivoa.obscore'), 'Select' (set to '*'), and 'Max rows' (set to '9999'). A 'Dataproduct type:' dropdown is open, showing options like 'image', 'cube', 'spectrum', 'sed', 'timeseries', 'visibility', 'event', and 'measurements'. The option 'cube' is highlighted with a red background. On the left side, there's a sidebar titled 'Image servers' with icons for Aladin images, SkyView, Sloan, DSS..., VLA..., Archives..., Proto..., and Others...'. On the right side, there's a sidebar titled 'Catalog servers' with icons for All VizieR, SIMBAD, NED, TAP, Gaia, SkyBot, VO, and Others...'. At the bottom, there are buttons for 'Check..', 'SYNC', and 'Asy', and a large text input field containing the SQL query 'SELECT TOP 9999 * FROM ivoa.obscore'. At the very bottom are buttons for 'Reset', 'Clear', 'SUBMIT' (in green), 'Close' (in red), and a help icon '?'.

Obscore tap client

The screenshot shows the Obscore tap client interface. At the top, there are tabs for 'Others', 'File', 'FoV...', and 'Tapis...'. Below the tabs, the URL is set to 'org.gavo.dc/tap' and the mode is 'Obsc...'. A status message says 'Add any obscore criteria and execute query.'

On the left, under 'Image servers', are links to Aladin images, SkyView, Sloan, DSS..., VLA..., Archives..., Proto..., and Others... . On the right, under 'Catalog servers', are links to All VizieR, SIMBAD, NED, SELECT FROM TAP, Gaia, iVOO, and Others... .

The main query area includes:

- Table: ivoa.obscore
- Select: *
- Max rows: 9999
- Dataproduct type: image
- Target: (empty field)
- Radius: CIRCLE
- Filter criteria:
 - ra
 - em_min
 - Exposure time
 - t_min
 - t_max
 - Temporal resolution
 - Time range
- Buttons: Async jobs>>, Upload
- Bottom buttons: Reset, Clear, SUBMIT, Close, and a help icon.

Obscore tap client

The screenshot shows the Obscore tap client interface with the following configuration:

- Table:** ivoa.obscore
- Select:** *
- Max rows:** 9999
- Dataproduct type:** timeseries
- Target:** 18 50 04.79525 +33 21 45.6100
- Radius:** 14'
- Criteria:** ra, em_min, Time range (01-jan-2000, 02-jan-2016), dataproduct_type
- Buttons:** Check.., SYNC, Async jobs>>, Upload

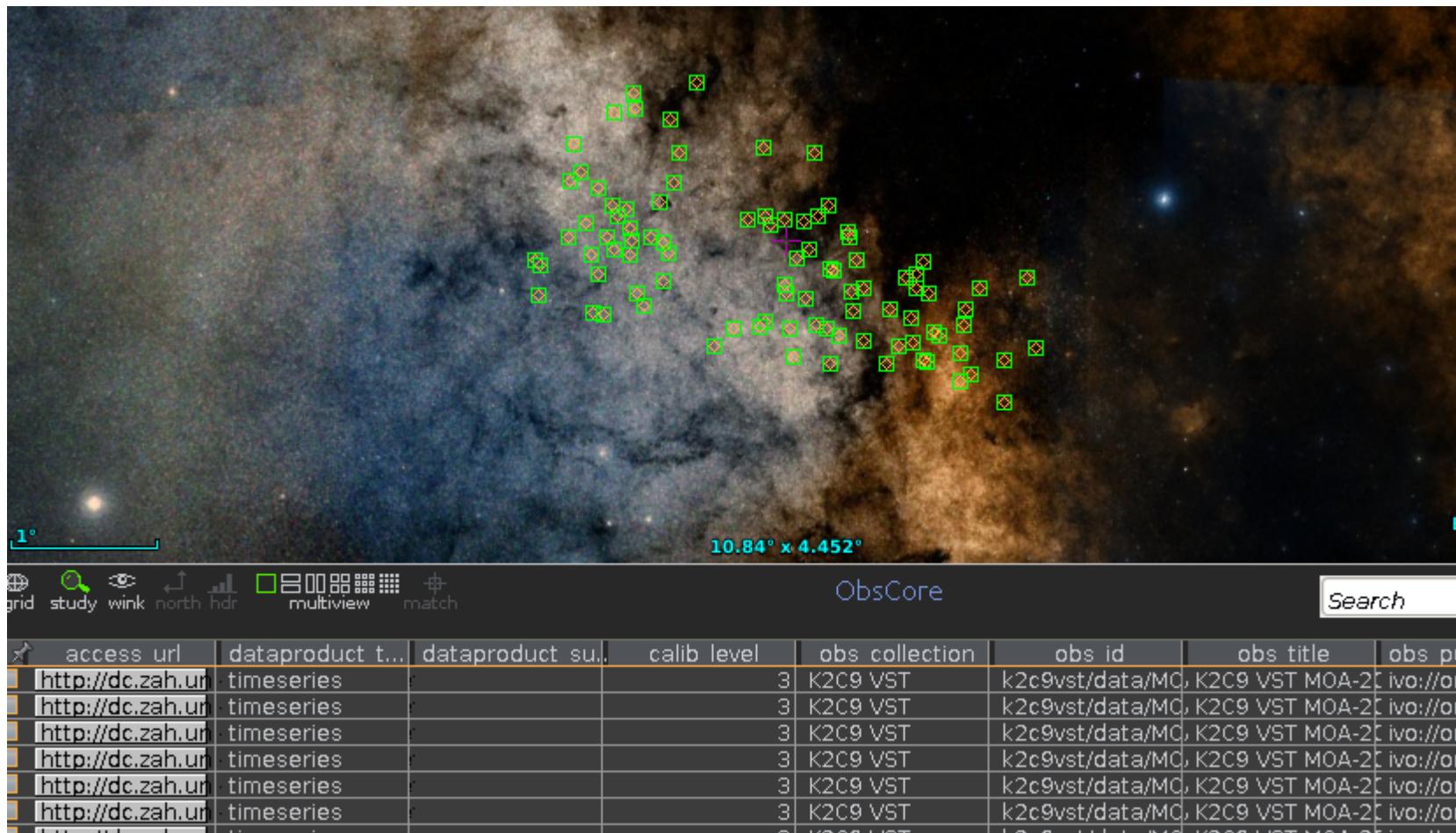
The generated SQL query is:

```
SELECT TOP 9999 * FROM ivoa.obscore WHERE dataproduct_type = 'timeseries'  
AND t_min >= 51544.041666666651 AND 57389.041666666651 <= t_max
```

Annotations with arrows point to specific fields and buttons:

1. Select a dataproduct type and click on "Add"
- 2.1. Select time range
- 2.2. Provide time input and click "Add"

Obscore tap client



Obscore tap client

Generic tap client for Gavo:

org.gavo.dc/tap Mode: Generic
Construct your query, verify and execute.
Table: glots.tables Set ra, dec Join
Select: All Constraints: Add new Max rows: 9999

need to manually
find obscore table to
enable obscore
client...
(for large servers...)

Type in obscore, choose and load the table:

org.gavo.dc/tap Mode: Generic
Construct your query, verify and execute.
Table: ivoa.obscore Set ra, dec Join
Select: ivoa.obscore Add new Max rows: 9999
flare_survey.data
ivoa.emptyobscore

Find obscore by
schema name = ivoa
table name = obscore
?

Now obscore mode is available.

org.gavo.dc/tap Mode: Generic
Construct your query, verify and execute.
score Set ra, dec Join
Mode: Generic
Generic
Templates
Obscore

Contents

SIAV2/SODA/Datalink updates in Aladin

- 1.SODA async
- 2.Conclusions

Aladin's TAP clients updates

- 3.Join feature
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- 5.Obscore tap client
- 6.Conclusions

Conclusions

- Fix issues
- Improve usability
 - More verbose, descriptive...
 - Changes as per feedback
- Server join in examples mode, MultiTAP



Data access

Location **20:52:28.84 +30:31:50.0**

Frame CRS Projection Sinus

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED +

DSS colored

Collections → 19454
 ▶ Image → 300
 ▶ Data base → 2
 ▶ Catalog → 17110
 ▶ Cube → 6
 ▶ Outreach → 1
 ▶ Unsupervised → 2035

Aladin v9.6 *** PROTOTYPE VERSION (based on v9.620) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help



-
- select
-
-
- pan
-
-
- zoom
-
-
- dist
-
-
- phot

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
overing all other data,
lic & drag your own files.

Conclusions

Data access → 51 / 19589

Location **03:06:34.20 +17:39:37.0**

★DSS ★SDSS ★2MASS ★WISE ★GALEX ★PLANCK ★

CDS/P/DSS2/color

Collections → 51 / 19589
 Catalog → 28 / 17184
 II-Photometric Data → 8 / 308
 UKIDSS-DR9 LAS, GCS and DXS Surveys (Lawrence+ 2012) → 3
 UKIDSS-DR9 Deep Extragalactic Survey (on a total of 3,003,190 sources)
 UKIDSS-DR9 Galactic Clusters Survey (on a total of 54,467,123 sources)
 UKIDSS-DR9 Large Area Survey (on a total of 1,000,000 sources)
 UKIDSS-DR8 LAS, GCS and DXS Surveys (Lawrence+ 2011) → 3
 UKIDSS-DR8 Deep Extragalactic Survey (on a total of 3,003,190 sources)
 UKIDSS-DR8 Galactic Clusters Survey (on a total of 54,467,123 sources)
 UKIDSS-DR8 Large Area Survey (on a total of 1,000,000 sources)
 UKIDSS-DR6 Galactic Plane Survey (Lucas+ 2009) → 1
 UKIDSS-DR7 Large Area Survey (Lawrence+ 2011)
 Journal table → 20 / 15697
 A+A → 1 / 4144
 Stellar clusters from UKIDSS Galactic Plane Survey (Solin+, 2012) (cluster)

3 data sets selected
 Multiple cone search + multi MOCs MOC union MOC intersection
 CDS/II/314/dxs8, CDS/II/314/gcs8, CDS/II/314/las8

Load Close

DSS colored

zoom

Frame: ICRS

N
E
37
+90
+18
180
-90
-18

4.153° x 3.429°

grid study winc north hdr multiview match

select from All collections +
 filter exp inside scan
 (c) 2017 Université de Strasbourg/CNRS - by CDS - Distributed under GNU GPL v3
 0 sel / 0 src 4fps / 198Mb

Thank you!