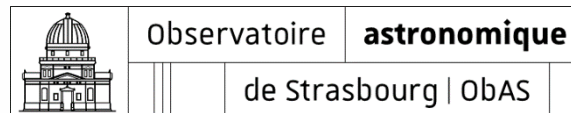


ALADIN

Help Aladin v10 find & display your data collection

IVOA Santiago Interop – 27 & 30 October 2017

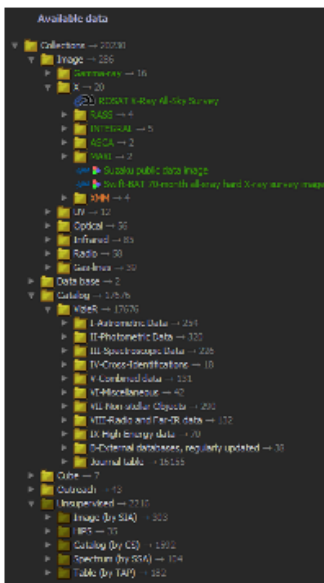
Pierre Fernique
on behalf the Aladin team



What's new in release V10 ?

Discovery data tree

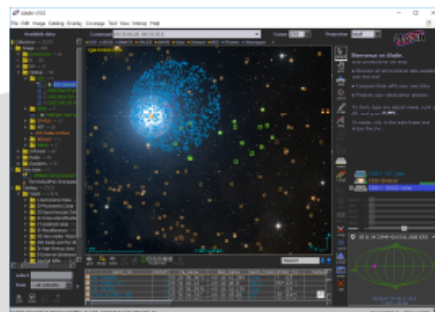
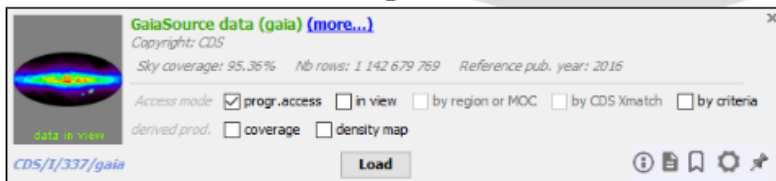
Integrated access to all CDS and other VO collections (>20,000 data sets)...



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Access selector

Choose among all available access modes and derived products ...

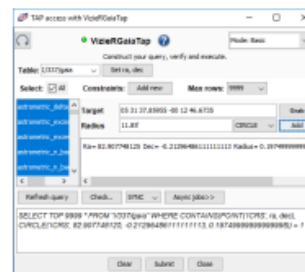


New look & feel

Modern and compact layout...

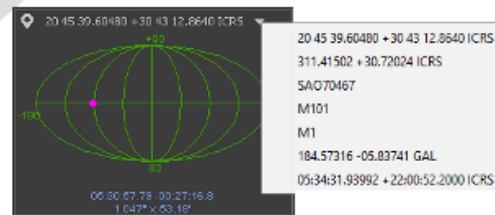
Multi-protocol support

HiPS, MOC, CS, SIA, SSA, TAP...



Target history controller

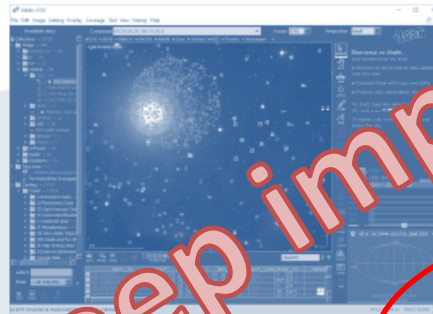
Come back to a previous target, command...



What's new in release V10 ?

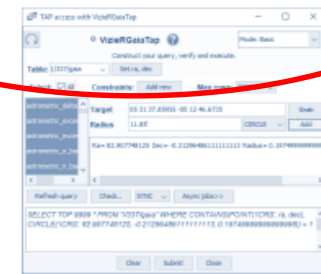
Discovery data tree

Integrated access to all CDS and other VO collections (>20,000 data sets)...



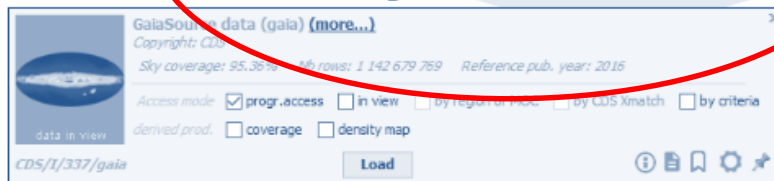
New look & feel
Modern and compact
layout...

Multi-protocol support HiPS, MOC, CS, SIA, SSA, TAP...



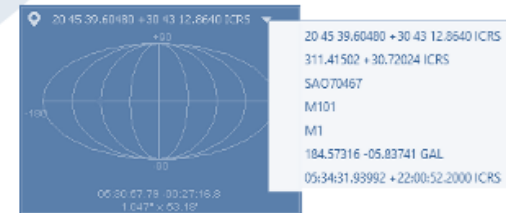
Access selector

Choose among all available access modes and derived products ...

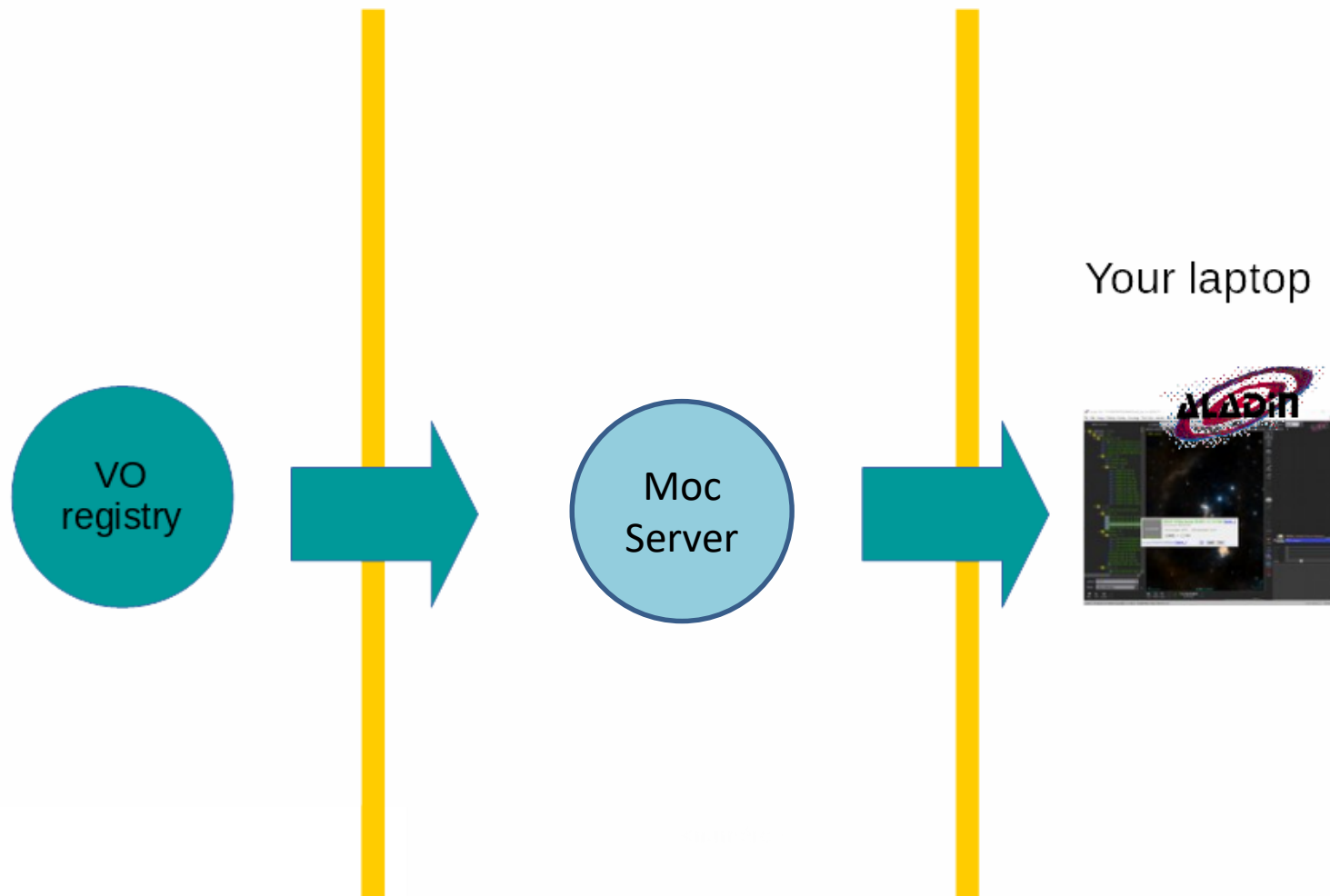


Target history controller

Come back to a previous target, command...



□ From VO registry to Aladin



□ From VO registry to Aladin

Regtap server



alasky@cds



Your laptop



Other servers



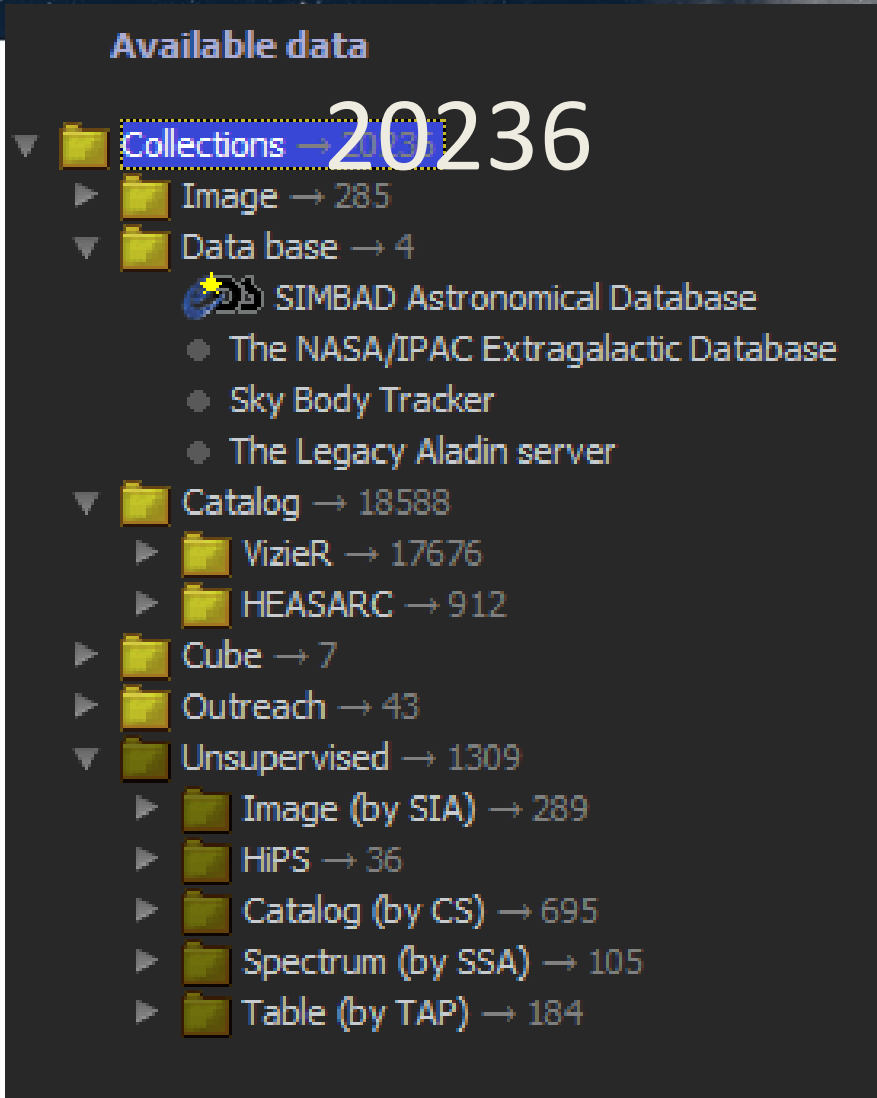
MocServer

MOCs
1GB

Props
25MB



□ Register your collections



- All VO collections available by a few clicks...
- ...But with the information that you provided in the VO registry => display, search, filtering...
- Title, Description, ...

□ Provide your MOC

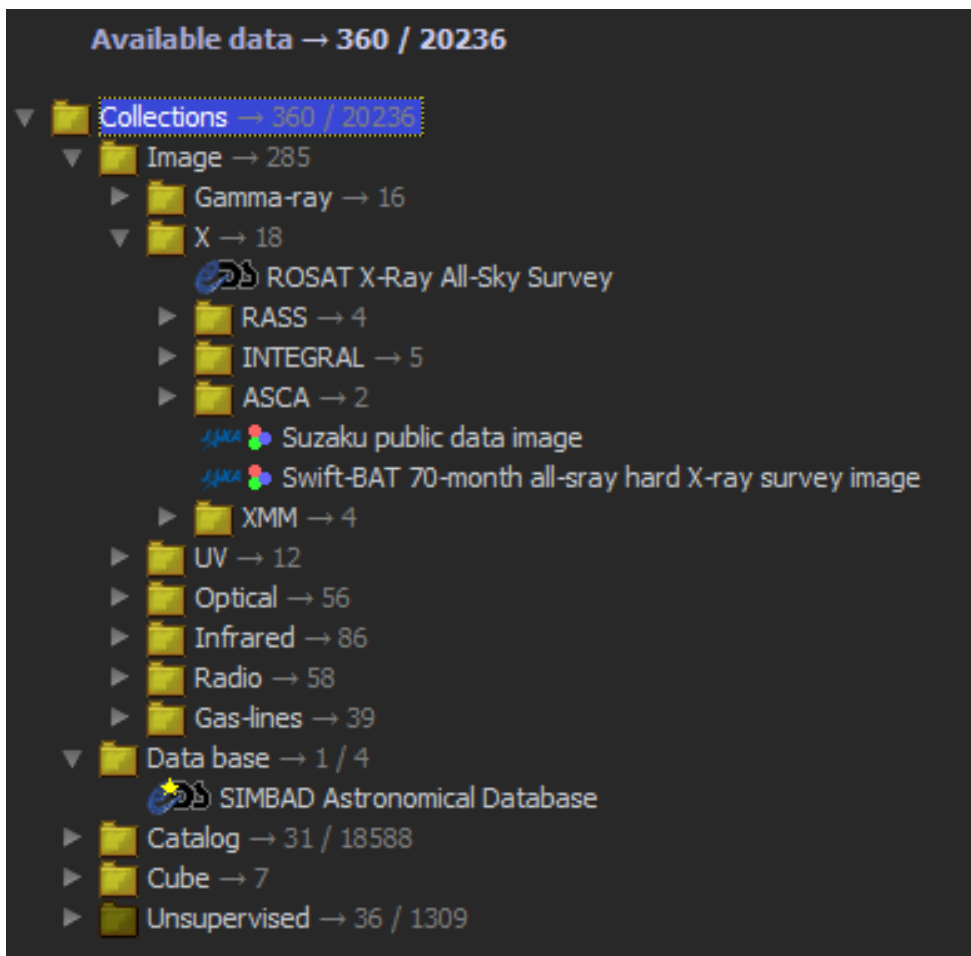
- **Green:** There are data in the field
- **Orange:** Nothing in the field



- **White: No sé !**

A screenshot of a software interface. On the left, a tree view titled "Available data" lists various astronomical data collections. A green arrow points to the "Image" folder, and an orange arrow points to the "Infrared" folder. On the right, a "Command" window shows a star field image with the text "CDS/P/DSS2/color". Below the tree view, a black banner contains the text "Digitized First Byurakan Survey:" with an orange arrow pointing to it. Below the banner, a list of folders is visible, including "3crsnapshots", "archive.stsci.edu", "arvo", "au.csiro", "byurakan.oact.inaf.it", and "cadc.prc.ca".

□ Declare your HiPS server



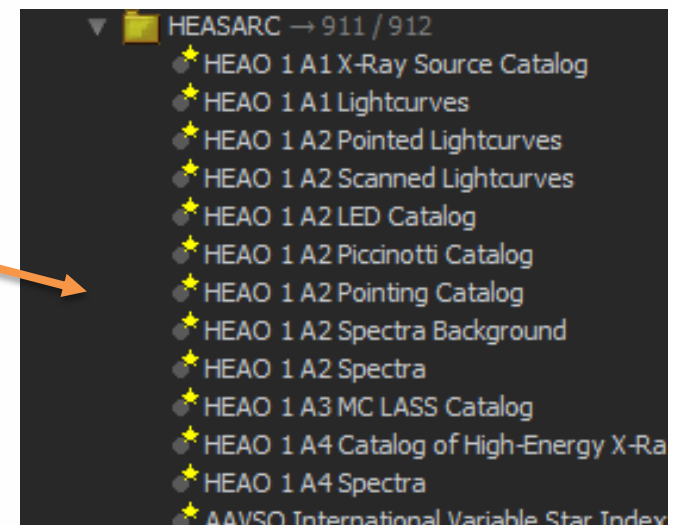
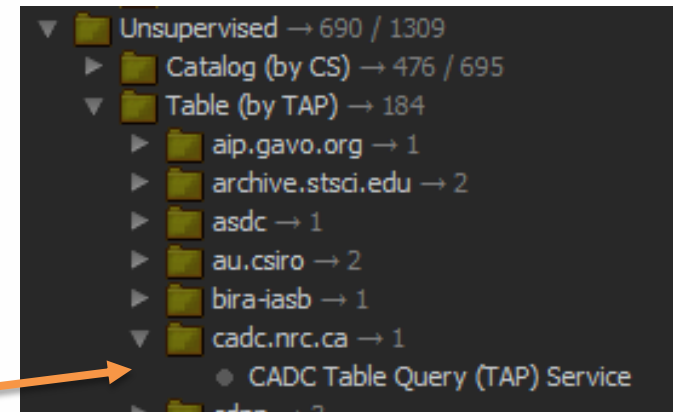
- Without a HiPS server declaration, your HiPS list will be never harvested, and you will not appear in the Aladin Data tree

□ Declare your TAP server & your tables available by TAP

According to the Endorsed IVOA note « Discovering Data Collections Within Services », we are now able to manipulate both:

- the TAP server which provides a list of tables
- And all the tables available by this TAP server.

=> Add the « aux, served-by, ... » in the VO registry



□ If possible, provide the table name

- DwarfArchives.org ? Photometry, spe
- **CARS source catalogue query**
- Gravitational arc candidates in the CF

TAP access with org.gavo.dc/cars/q/cat

org.gavo.dc/cars/q/cat ? Mode: cars.srccat

Générez, vérifiez et exécutez votre requête.

Table: cars.srccat Set ra, dec

Select: All Constraints: Add new Max rows: 9999

carsid
seqnr
raj2000
dej2000
xpos

Target
Radius CIRCLE Add

Refresh query Check.. SYNC Async jobs>>

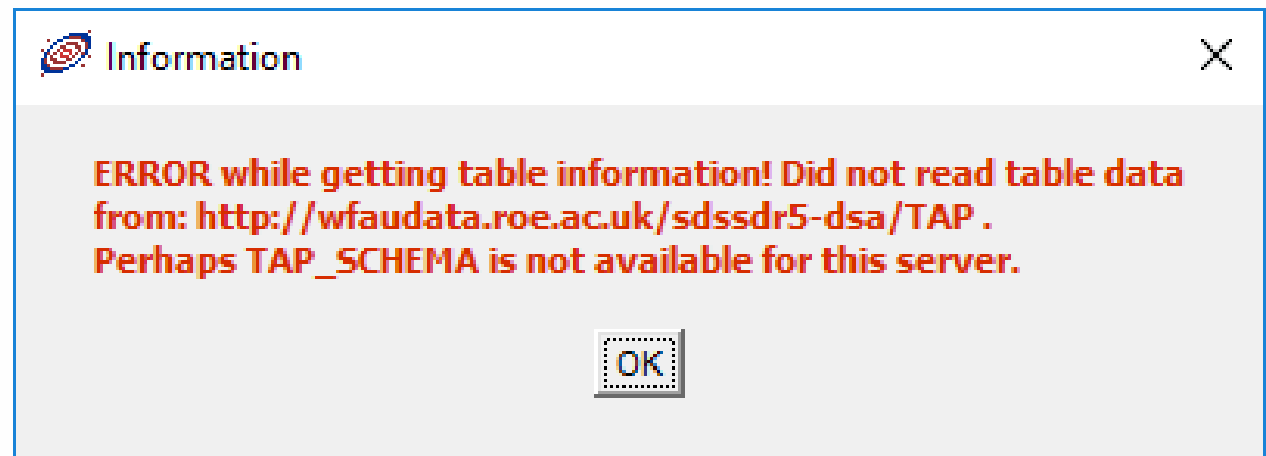
```
SELECT TOP 9999 * FROM cars.srccat
```

Clear Submit Close

If there is a one-to-one correspondance between your DB table and its declaration in the VO registry, provide the « table name » used in the TAP schema.

□ Fully implement TAP

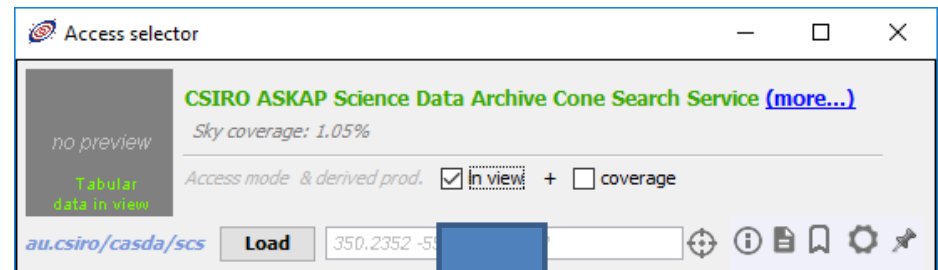
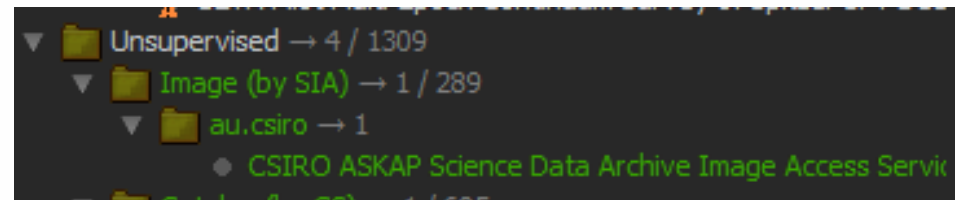
- http://wfaudata.roe.ac.uk/sdssdr5-dsa/TAP/sync?QUERY=SELECT+table_name+FROM+TAP_SCHEMA.tables



□ Avoid, if possible, CS « grain coarse » declaration

If you declare a catalog, which contains several tables but not declare individually (multiple CS capabilities), you will lost:

- The search/filtering support
- The MOC benefit
- The table names + descriptions...



□ Avoid cross type capabilities

How to manage a collection which declares simultaneous capabilities for images, spectrum, catalog, ...

- Duplicate the collection declarations in the VO registry ?
- Or the client has to split it?

The image shows a screenshot of a VO client interface. On the left, a tree view shows a 'Catalog' folder expanded to 'HEASARC' with sub-items like 'ASCA Master Catalog', 'Chandra Observations', and 'NuSTAR Master Catalog'. A blue arrow points from the 'Catalog' label to the 'HEASARC' folder. To the right, a search results page for 'Chandra Observations' is shown. Above the page, four vertical arrows point down: a blue arrow labeled 'CS', a red arrow labeled 'SIA', a red arrow labeled 'SSA', and a blue arrow labeled 'TAP'. The search results page shows 'no preview', 'Tabular' format, and 'Access mode' options: 'by cone' (checked), 'by cone', 'by cone', and 'by criteria'. A 'Load' button and a search input field are at the bottom.

Catalog =>

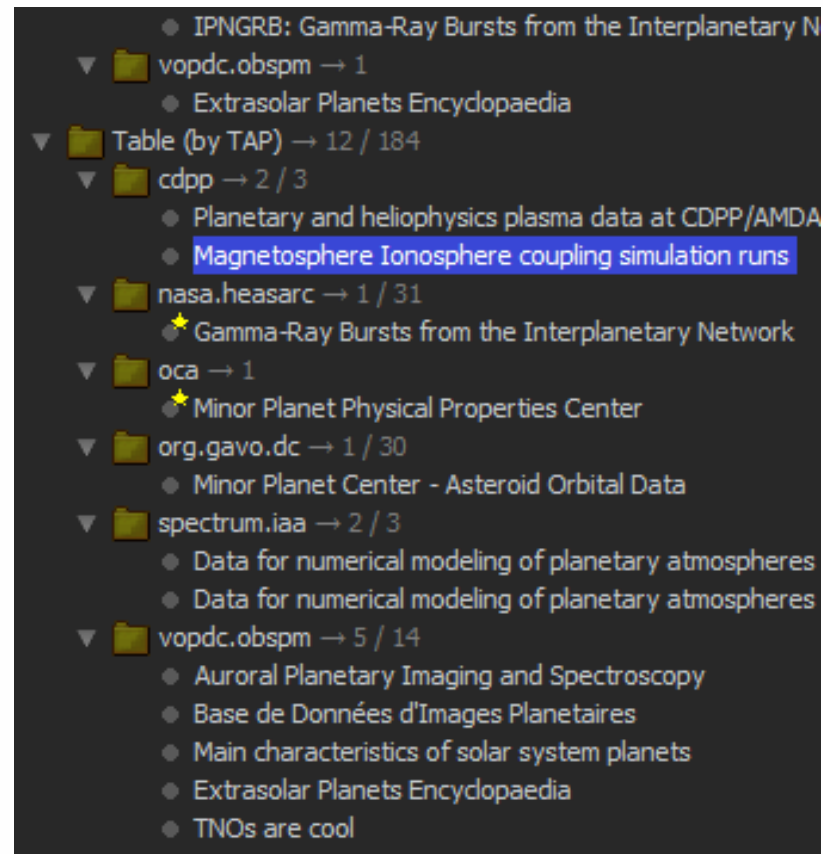
CS SIA SSA TAP

★New release
Chandra Observations (more...)
Coverage unknown (availability...)
no preview
Tabular
Access mode by cone by cone by cone by criteria
nasa.heasarc/chanmaster Load Object or coordinates ?

□ Sky ? Planets ? Simulations ? ...

How to
declare/recognize a VO
registry record
concerning:

- Sky ?
- Planets ?
- Simulations ?
- ...



How to build a form for SIA2 or Obscure queries?

The screenshot shows a 'Server selector' window with a form titled 'Generic SIAv2 query'. The form contains the following fields:

Field Name	Value
Target (ICRS, name)	NGC 1055
Radius	14'
Server IVOID or base URL	irsa.ipac/sia
Data set identifier	
Collection name	
Telescope name	
Instrument name	
Target	
Calibration level (0..3)	
Maximum number of rec	99999

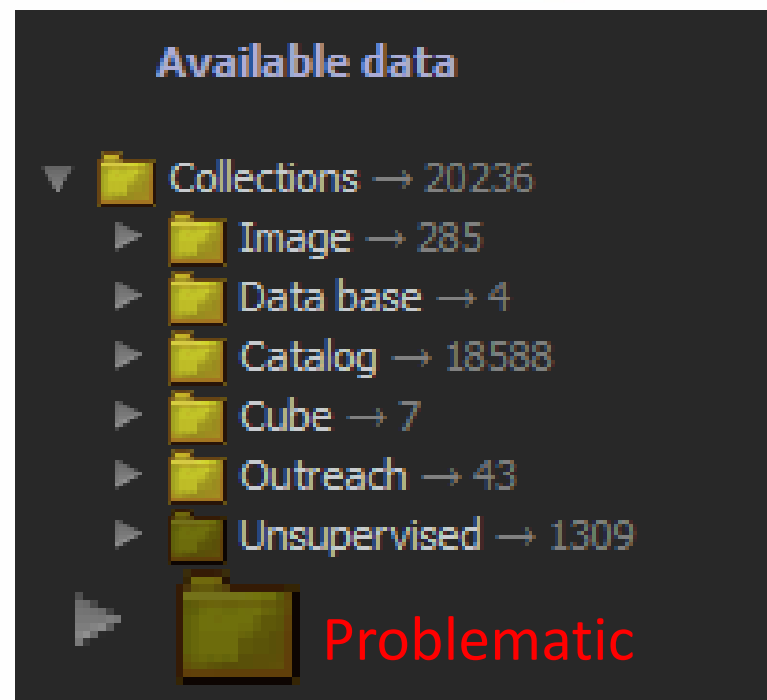
At the bottom of the form are buttons for 'Reset', 'Clear', 'SUBMIT', and 'Close', along with a help icon.

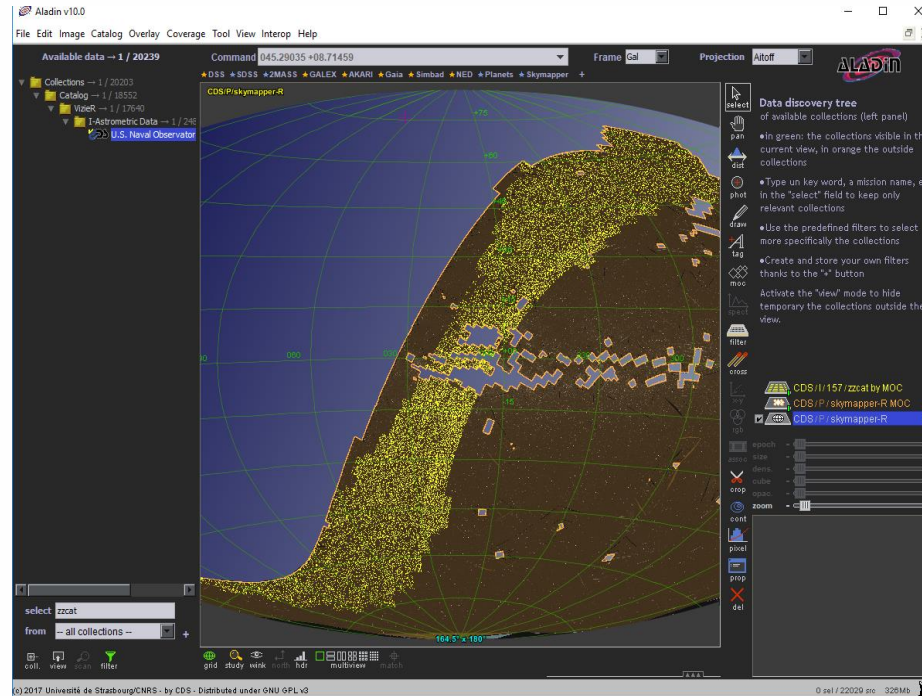
Blank fields are bad..., choice popup is better... (dixit Taylor)

Could VO registry store the list of available values (Instrument names, Collection names, ...) in order to create usable forms (with popups)?

□ The good, the bad, the ugly....

- A important fraction of collections is not reachable/working for months (out-of-order, no longer managed, forgotten prototypes, ...)
- It is very harmful for Aladin, and for other providers
- **Idea:** move temporary these collections in a dedicated branch (based on the n last IVOA registry validator tests)





Thanks – question ?