

Enabling a robust VOspace for VO tools and services

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CDS

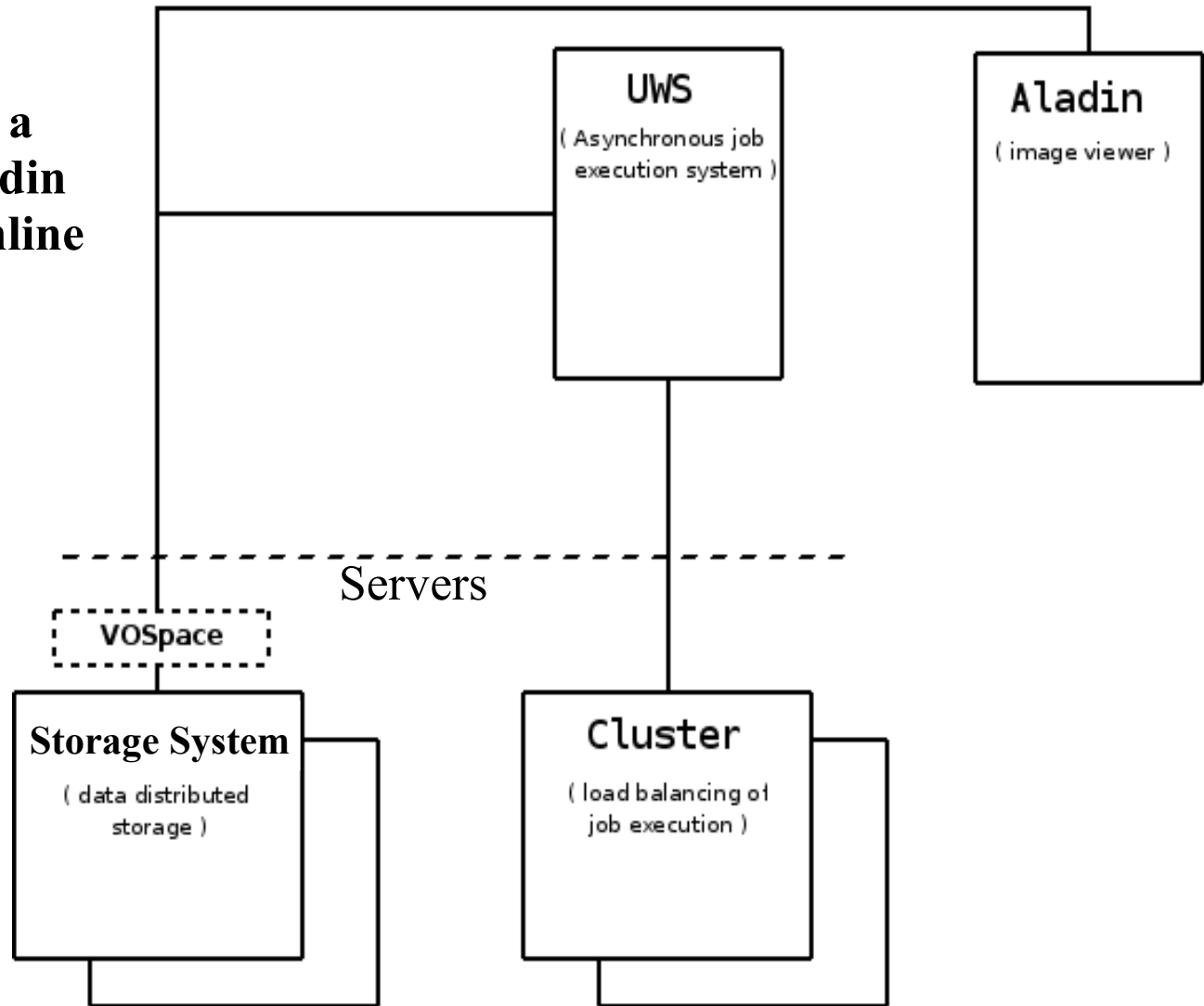


VOSpace

- **VOSpace is the IVOA work for the definition of an interface to a virtual file system available for VO applications and services. It defines only the interface and not the storage infrastructure. This one is under the responsibility of the “space provider”.**
- **VOSpace can be used with local file systems, databases, evolved storage systems, etc..**

Use case

- Our aim is to create a storage area for Aladin and the new CDS online services interfaces which are under development.



Which storage system ?

- **iRODS, integrated Rule-based Data System**
- **Available since January 2008**
- **Successor of SRB (Storage Resource Broker)**
- **Developed by SDSC, iRODS is open source and other people are participating**
- **It is in the category of evolved storage systems**

Roadmap

- **First step : development of an Aladin plugin giving an access to the iRODS implementation**
 - **To experiment iRODS itself**

- **Second step : implementation of the VOSpace interface over iRODS**

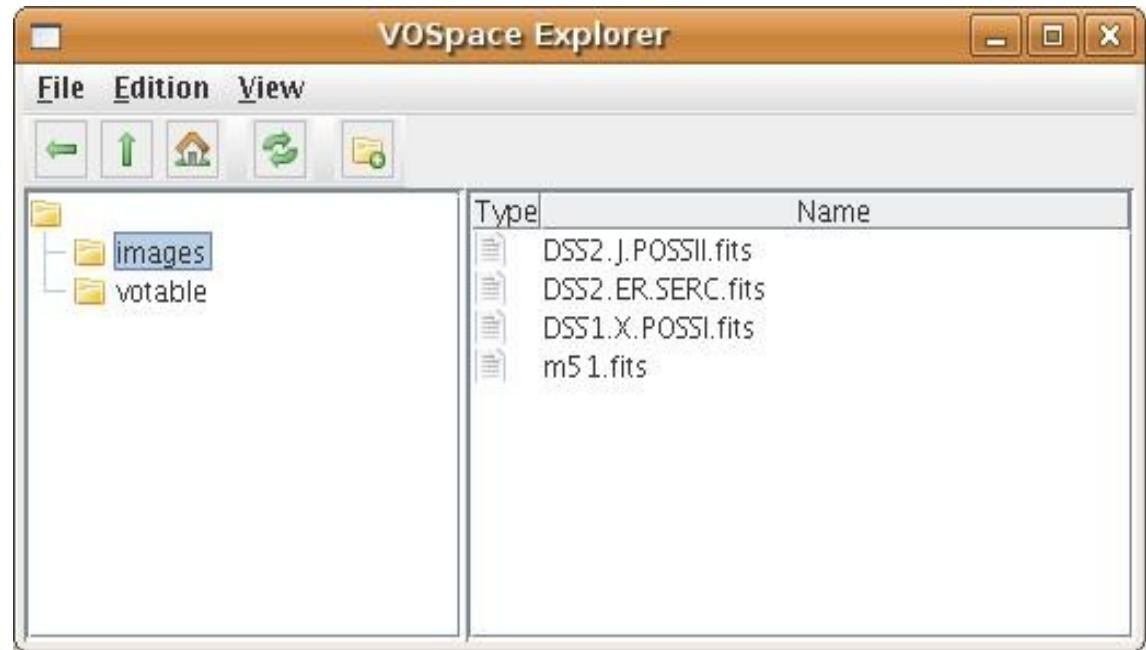
- **Third step : create client tools**
 - **A small VOSpace explorer**
 - **A VOSpace file chooser like as Aladin plugin**
 - **...**

- **Last step : real life services, not for the Second Life community**

■ Some screen shots from step 3

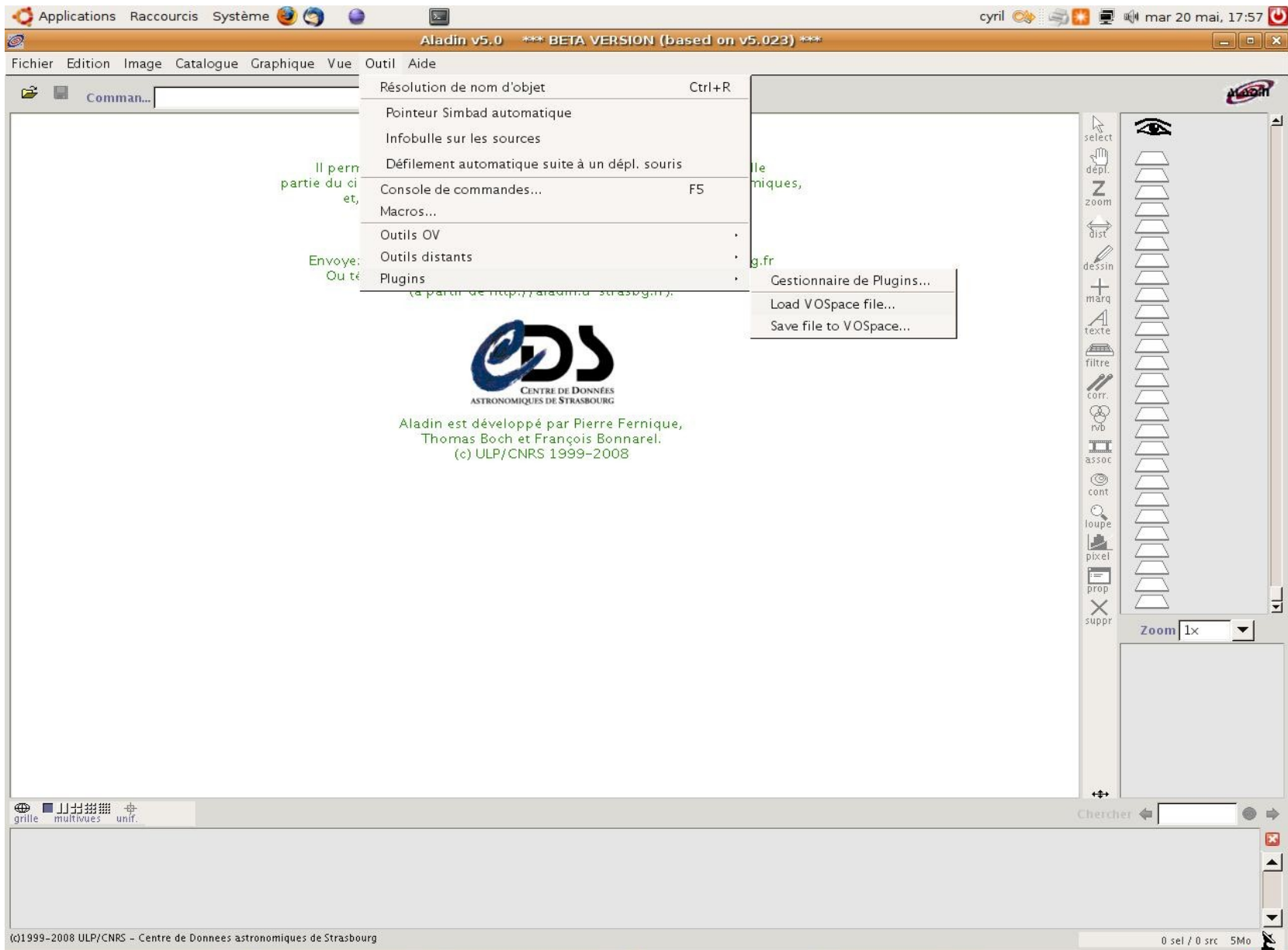
VOSpace explorer

- Development of a VOSpace explorer in Java to access and manage the files.
- It is possible to do the common actions on the files.
- If a VO tool supports drag and drop it is possible to interact through this way with the explorer.



Ongoing work

- The next version of the explorer is under testing.
- It integrates PLASTIC and makes the interaction possible with other tools like TOPCAT or VisIvo through this way.



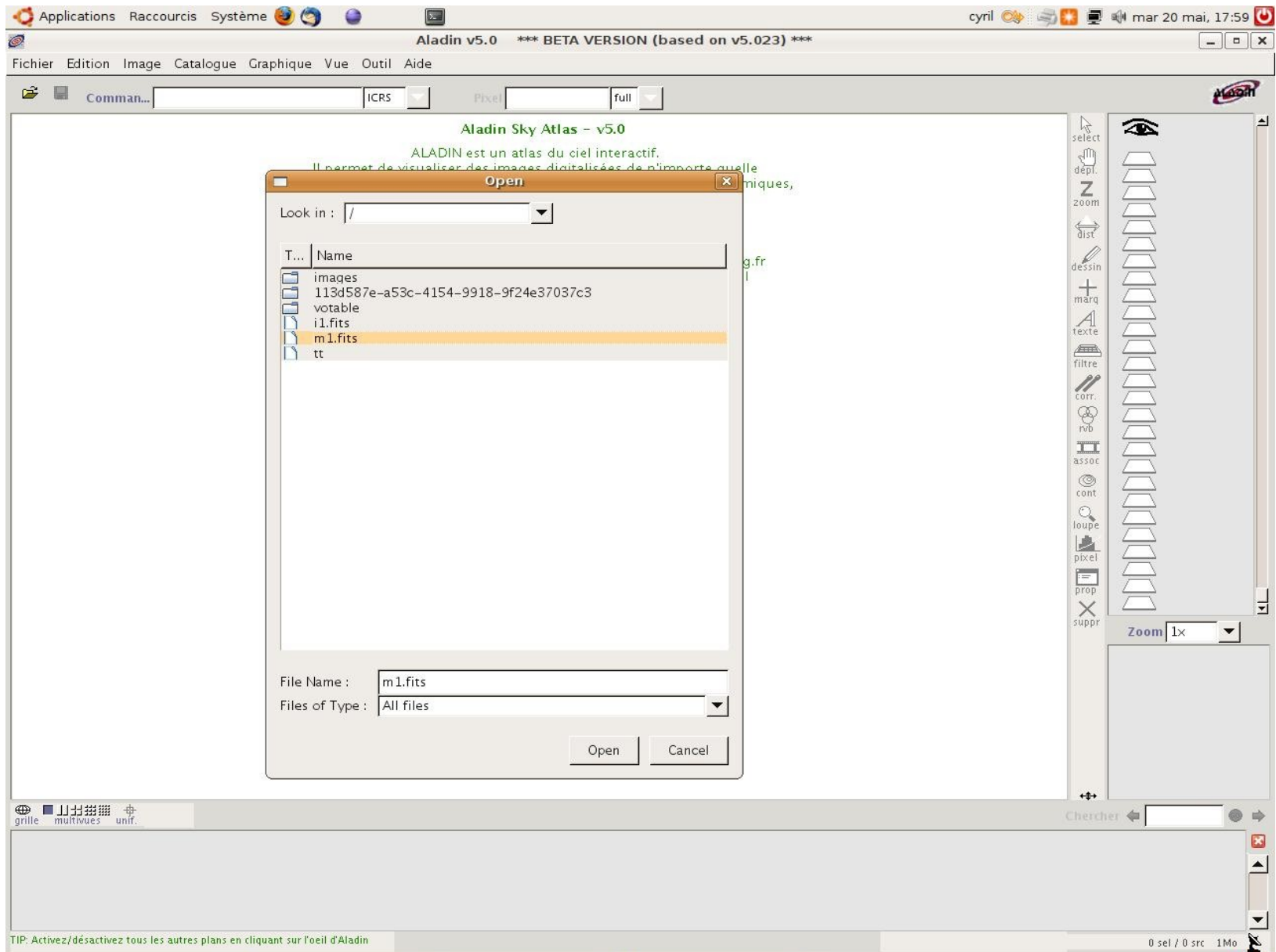
File chooser for Aladin

Trieste, IVOA meeting 19-23 May 2008

GWS Session 2, 22 May

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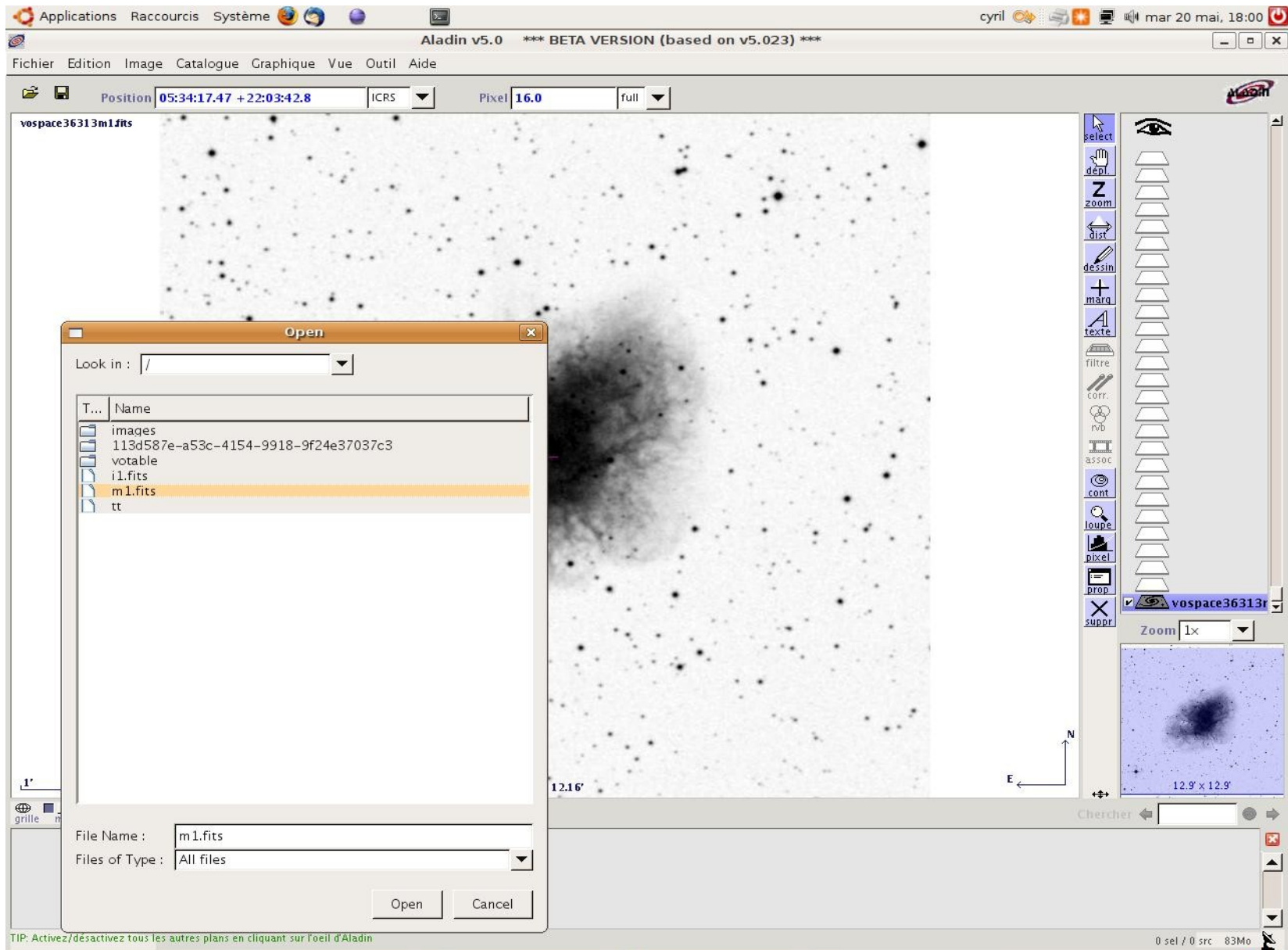
File chooser for Aladin (2)

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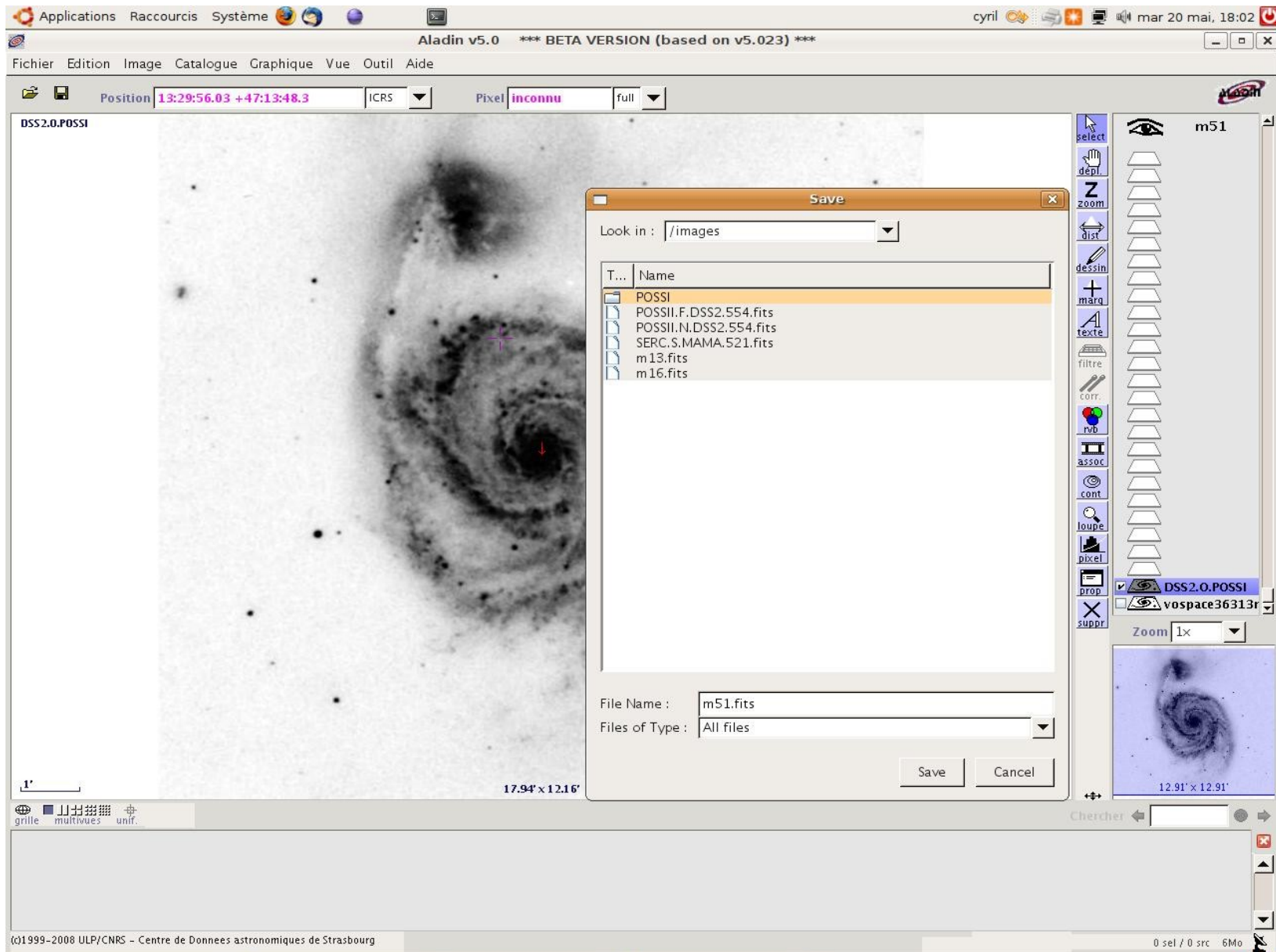


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Conclusion

■ iRODS

- is easy to implement (can be done without much manpower)
- seems to be a good solution to ensure the robustness of a VOSpace.

■ A PLASTIC compliant VOSpace explorer could be a solution to provide a simple access to the stored files for VO Applications.

■ This work is done in the frame of VOTECH stage ending in September, so the tools will be available before next interop and the sources too.