New generation DAL protocol: DataLink status

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Data Link

- Related to the Uprise of ObsTAP
- Discussions in Napoli and mainly Pune
- Use cases listed.
- Prototypes in Urbana
  - Xmm data: laurent michel
  - Aladin/ Healpix provenance (F Bonnarel)
- Working Draft : F.Bonnarel,L.Michel,M.Louys, . Others ? (Markus , etc …)-→ May the 12th

Use cases

- Retrieving other data formats:
  fits, jpeg, text/xml
- Acces to some kind of ”preview” of a dataset:
  Images, spectra, SimDAL use case ..
- Internal description and access to complex or heterogeneous datasets and archives: MEFS, Xray use case

Use cases

- Linkage to IVOA standardized metadata observation, characterisation, provenance
- Link to another IVOA service :
  - ObsTAP,
  - any kind of TAP service
  - simple access protocols such as SIA,SSA, etc...
    - Query mode
    - Access data mode
  - Other UWS Web services for reprocessing

Caveats/Issues/questions

- DataLink is strongly needed for ObsTap but is not EXCLUSIVLY bound to it
  - Usefull each time a TABLE Row has a « dataset » id and must be related to other resources (data metadata, services)
- DataLink is not an « AccessData » method it is a « Related Resource Discovery » protocol
  - Attached to individaul DataSets
  - AccessData DAL resources can be some of those

Caveats/Issues/questions

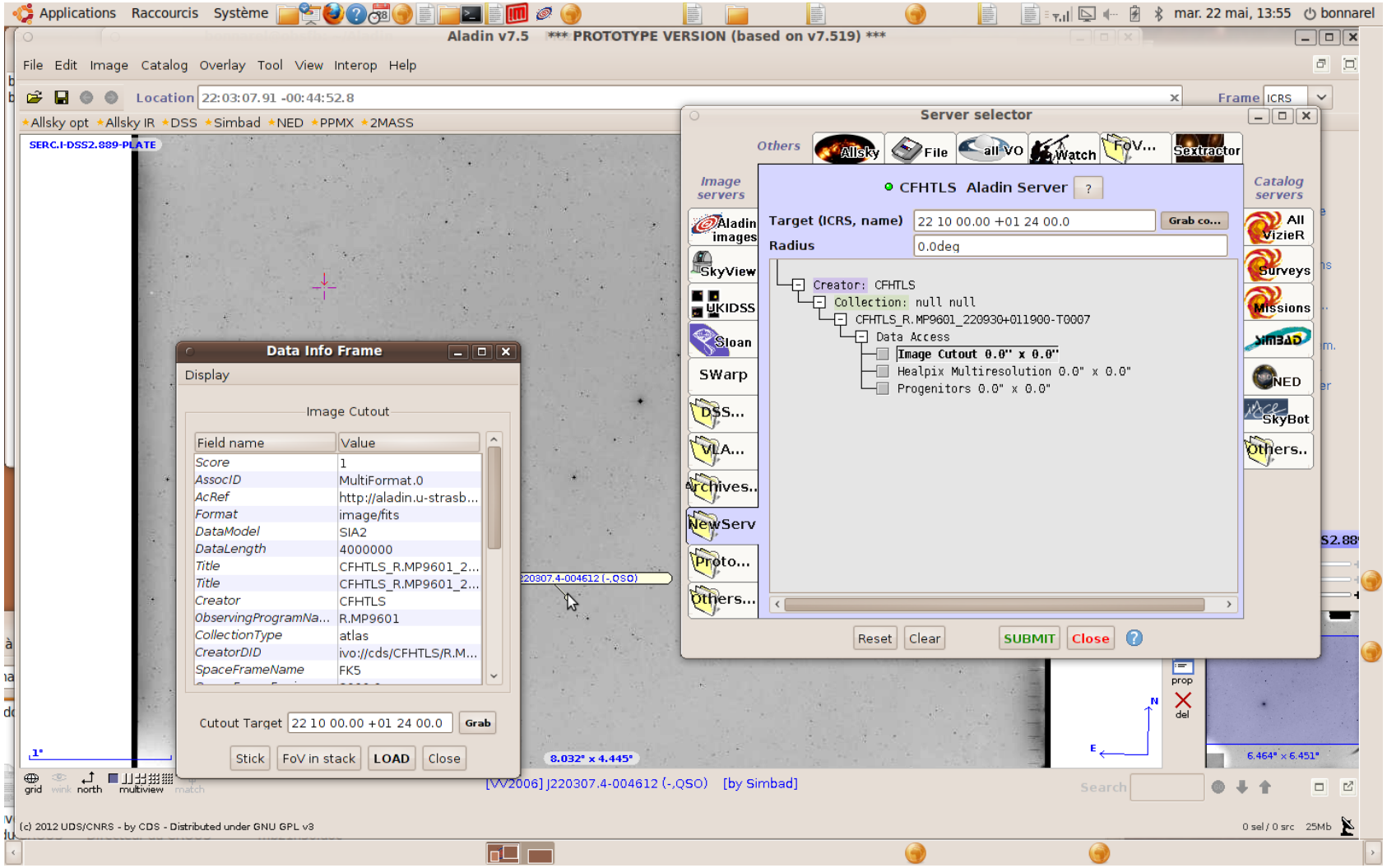
- Define it as a real (« registered ») IVOA service or a generic method (to be included in DALI ?)
  - New parameter ?
  - Dal extension mechanism
  - if it is a service must be described in the registry

- What kind of Data set ID to use :
  Publisher Did ? Or internal ID ?

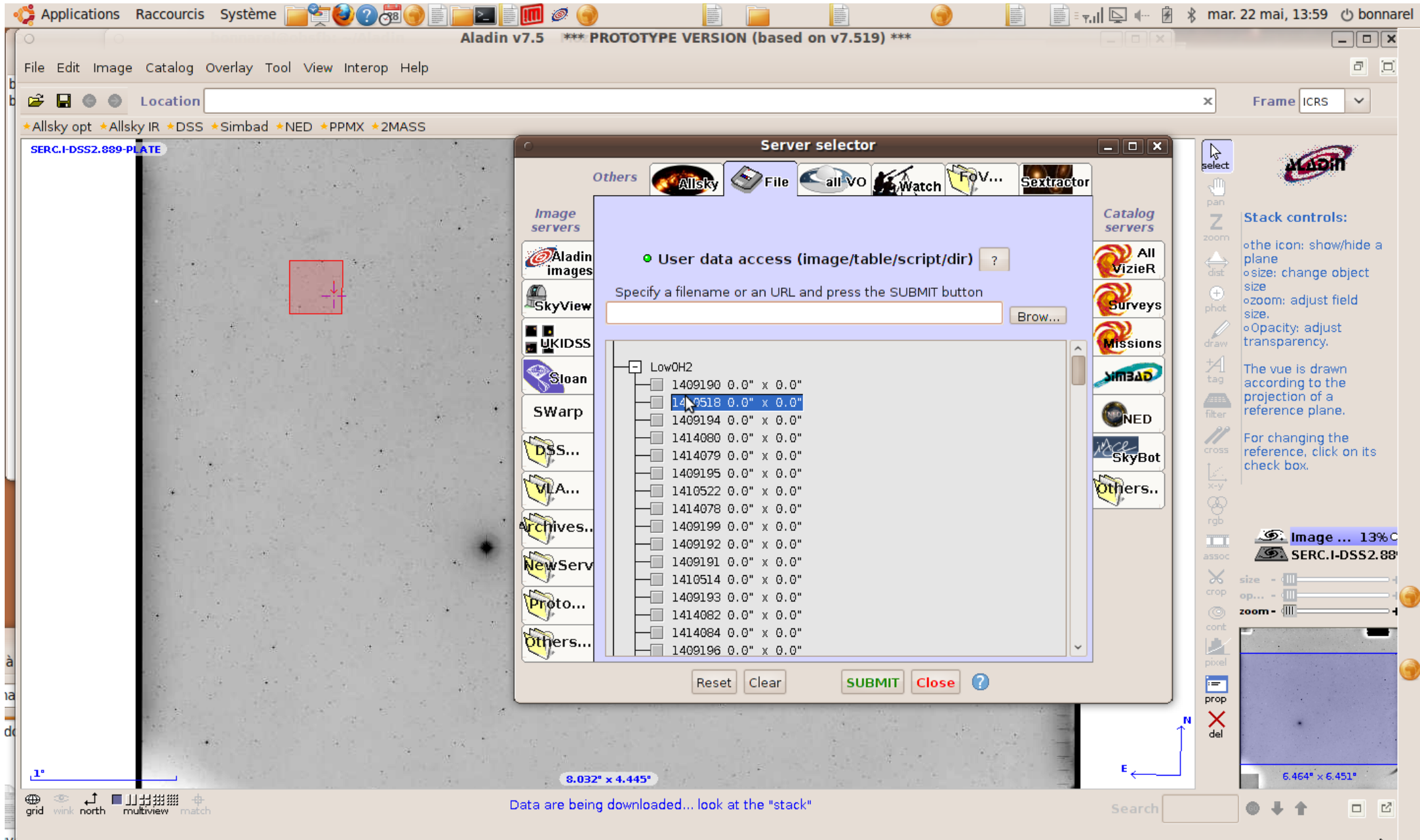
CDS Prototype « Slide Demo » (real demo HackAThon session)

- Based on CDS description as proposed in the Working Draft
- Used in two ways: FROM Usual DAL response and FROM Healpix AllSky maps
  - DataLink attached to a SIA (sia2) Query response (shown in Napoli)
  - DataLink retrieved for accessing Healpix cell progenitor information (thanks to P.Fernique)
    - Link towards IVOA metadata for each proogenitor
    - Link towards progenitor cutouts (access data)

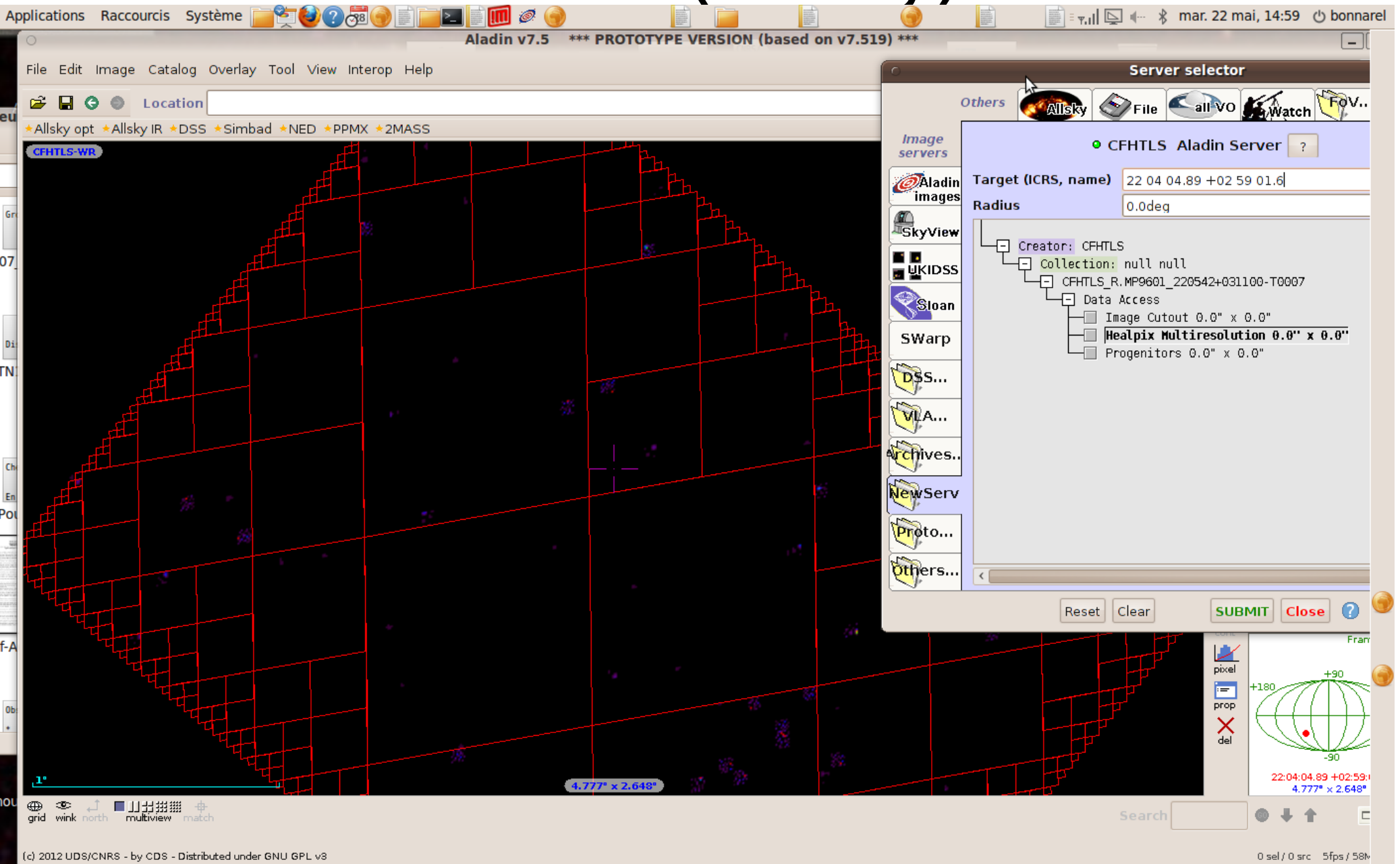
1. DataLink attached to SIA response



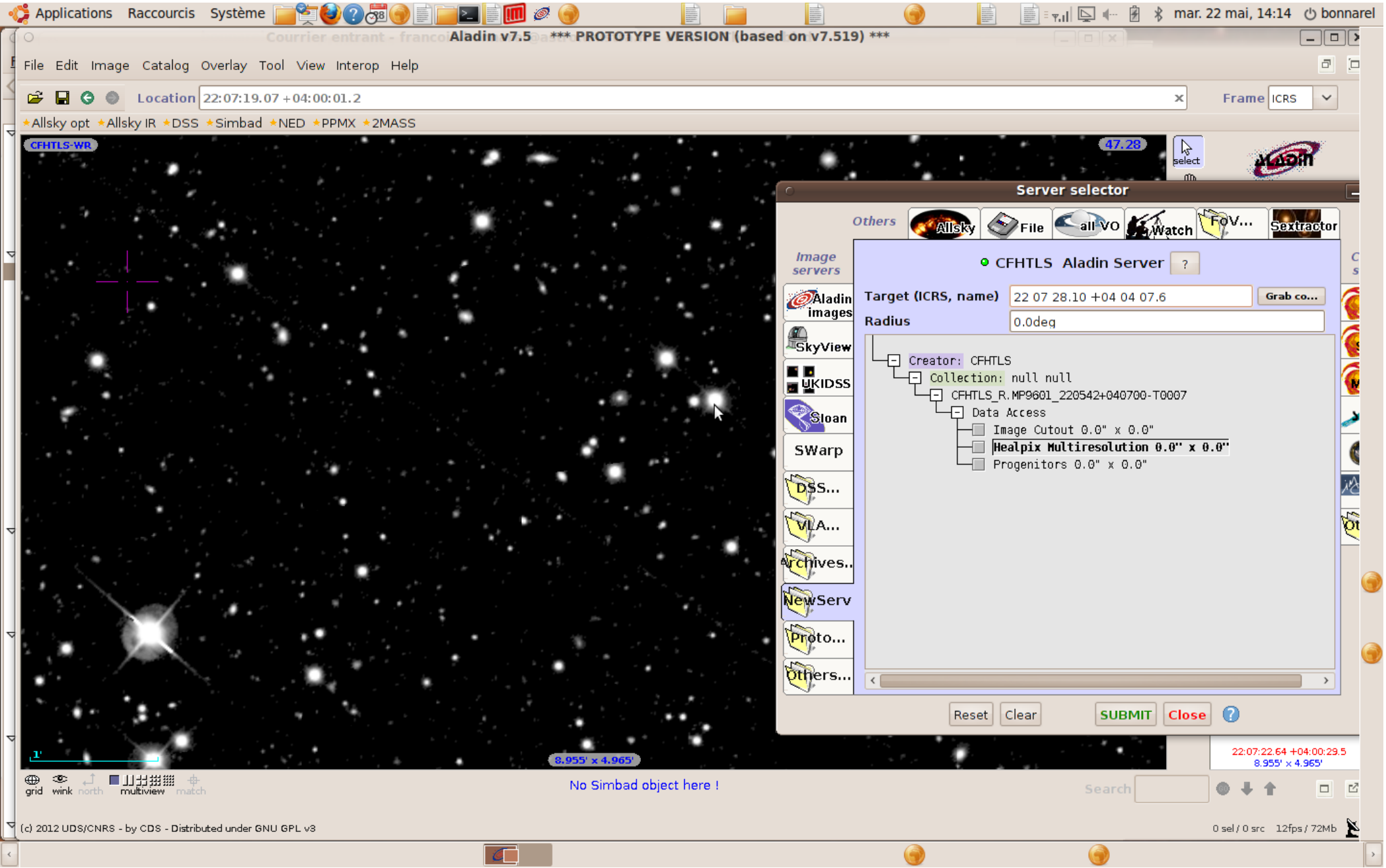
1. Acces to Stack progenitors



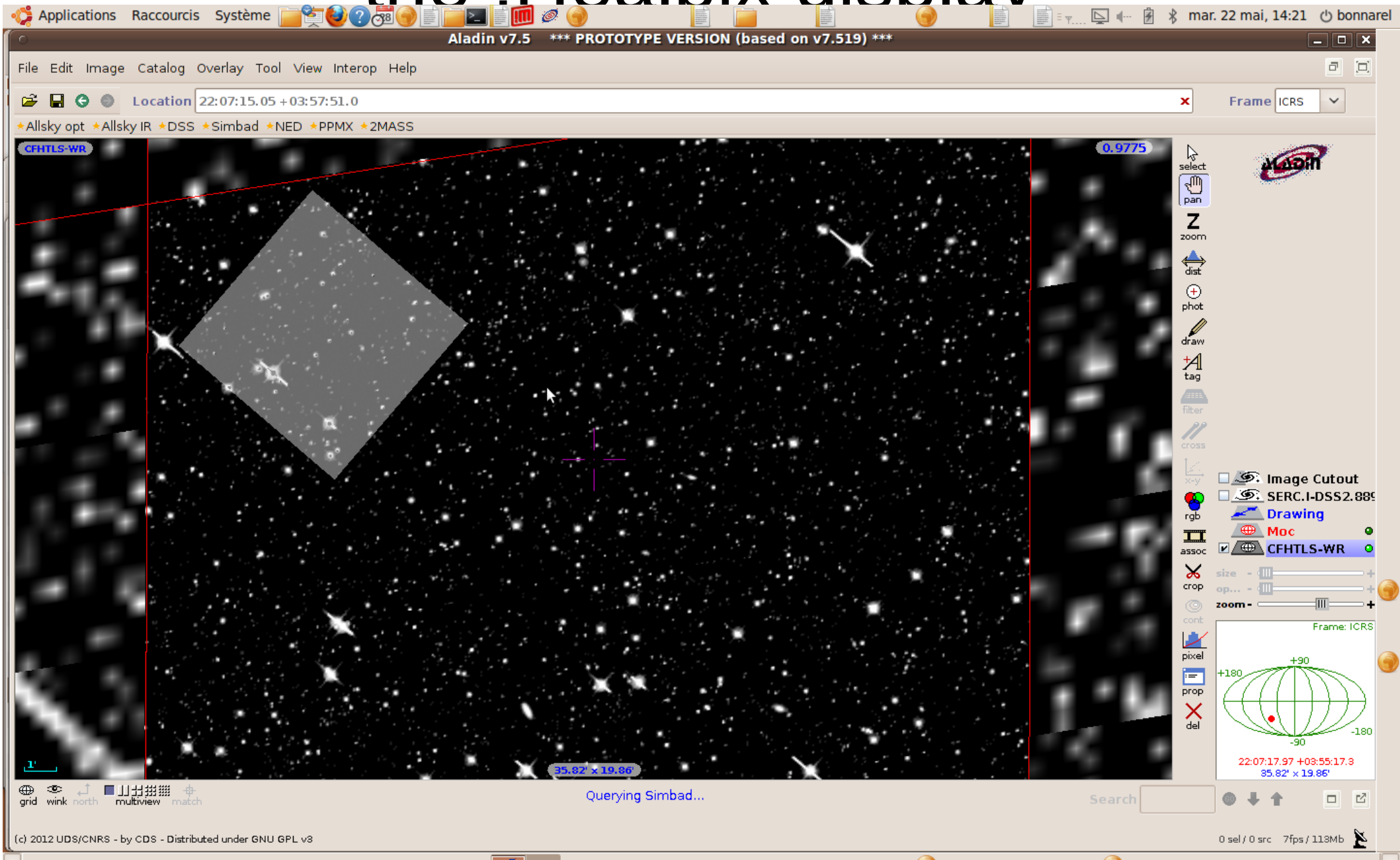
1.Access to Healpix multiresoltion mode (AllSky)



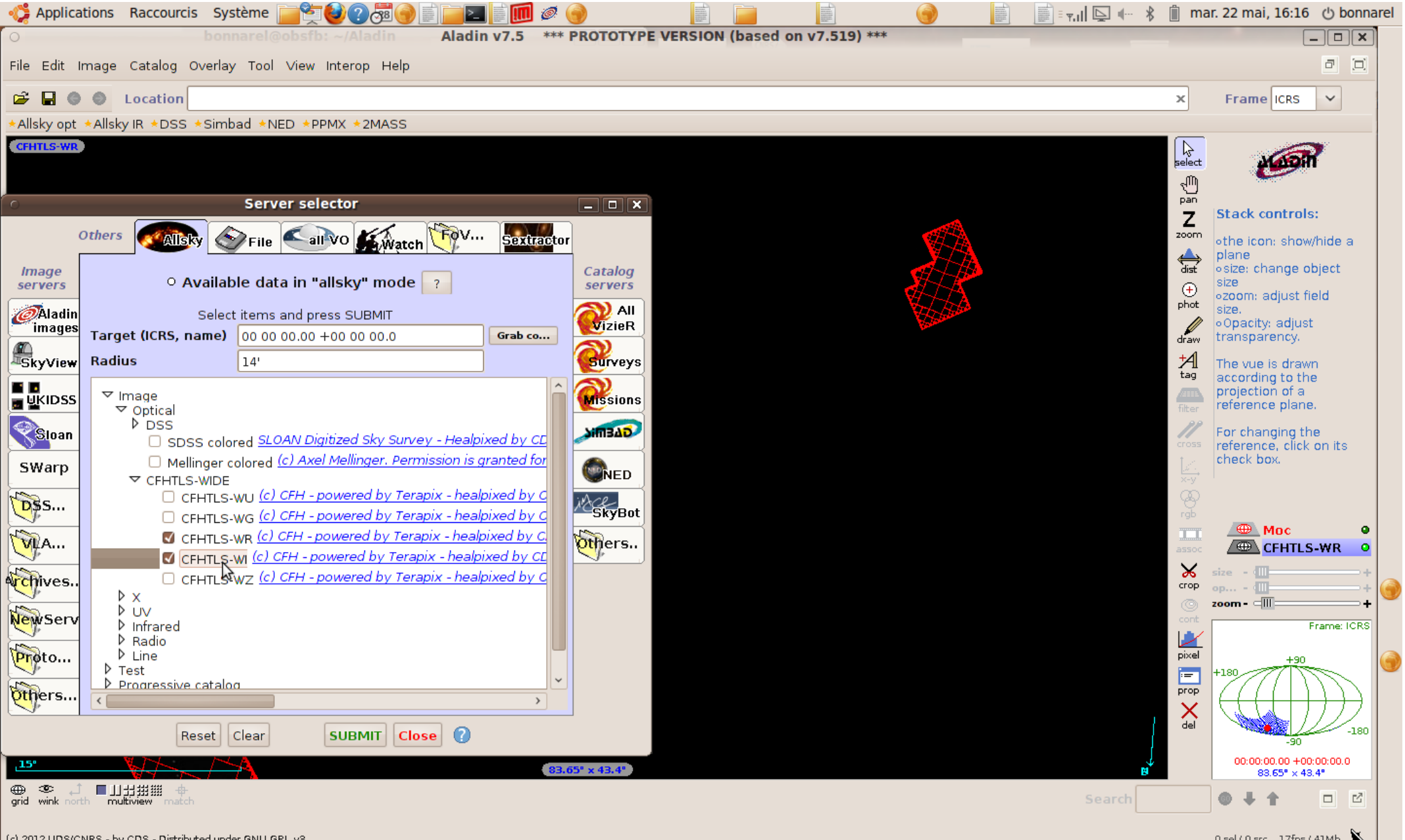
1.Healpix mode: best resolution



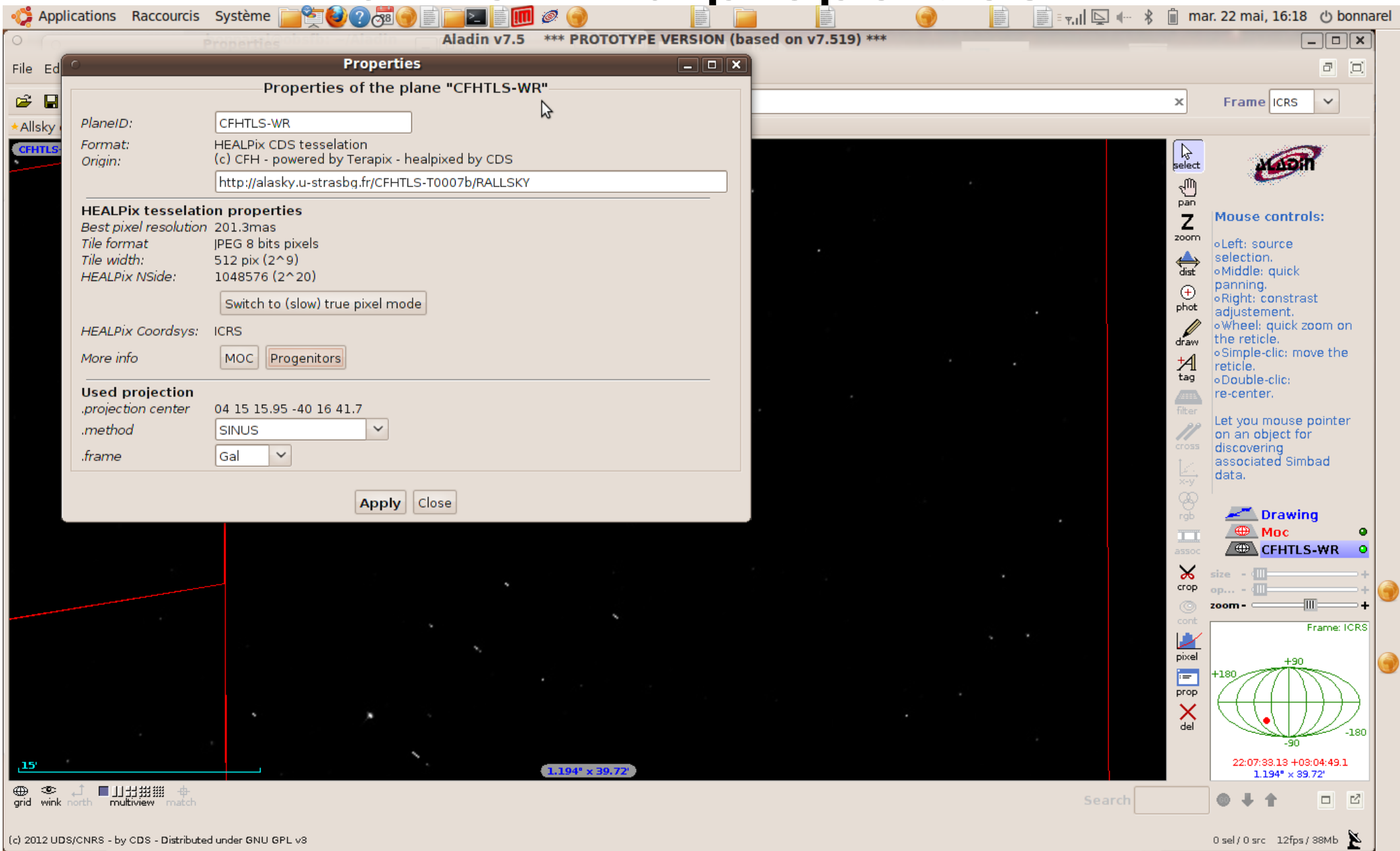
1.Original image Cutout on top of the .Healpix display



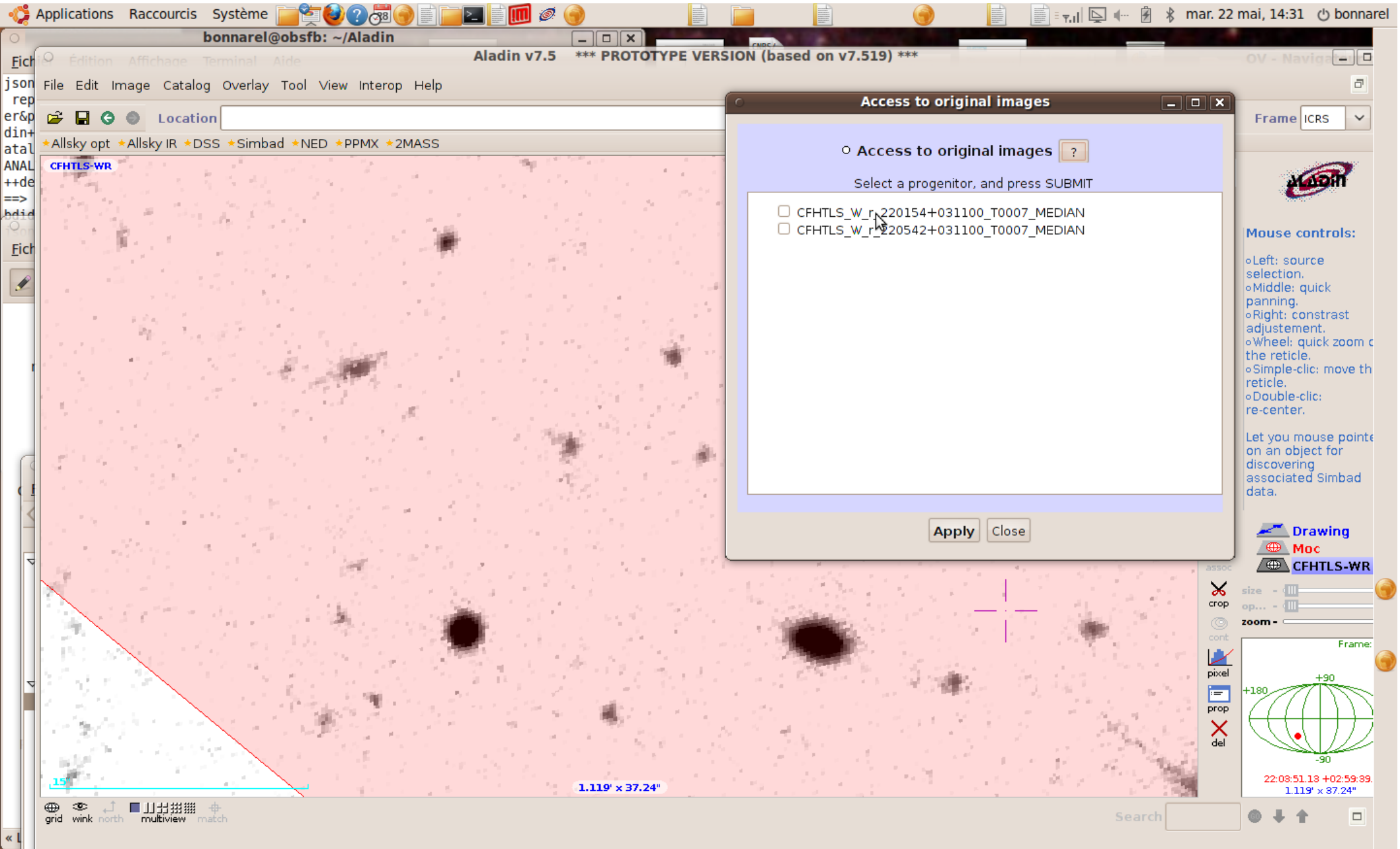
2.CFHTLS ALLSKY MODE



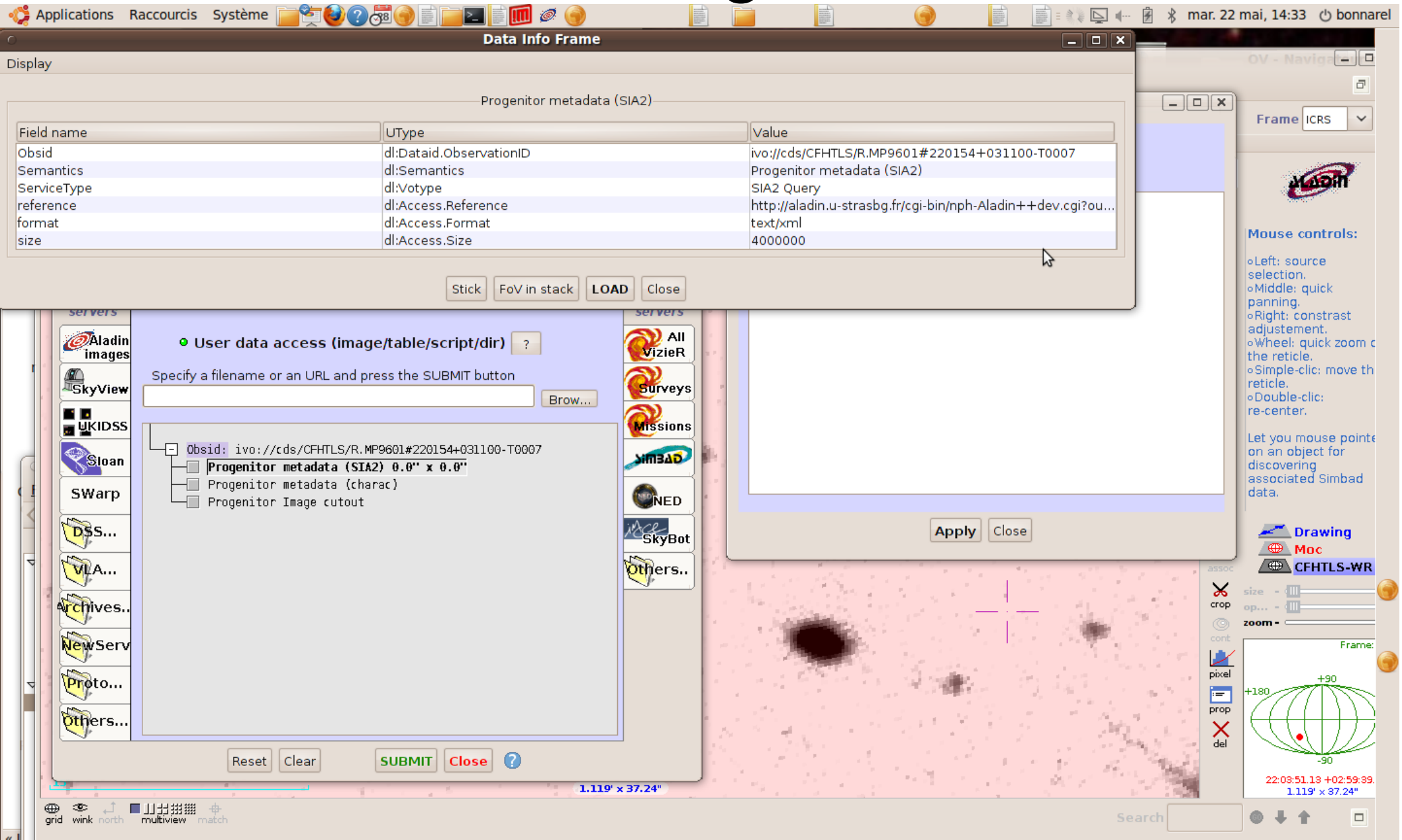
2. Acces to MOC and Progenitors driven via properties



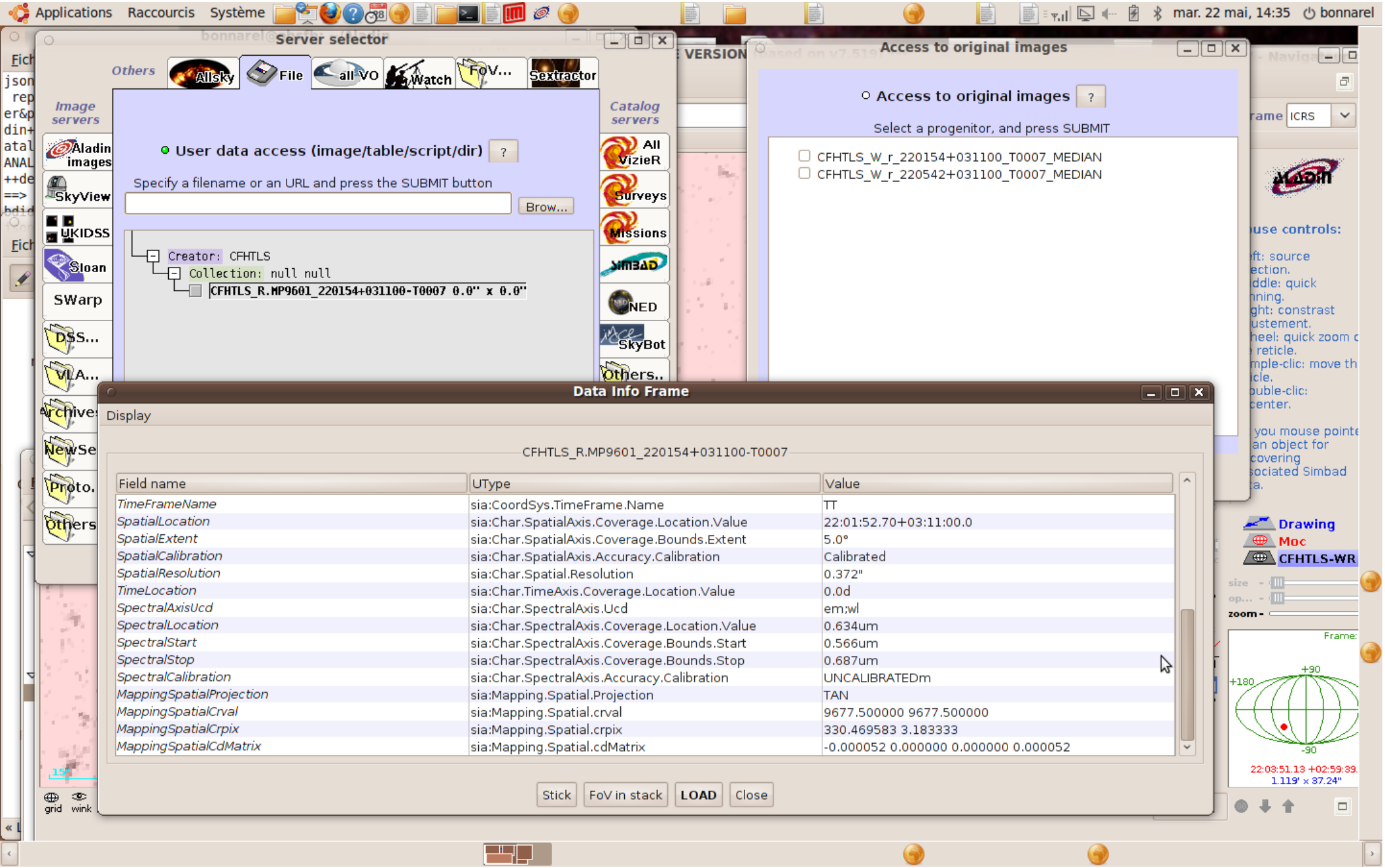
2.Original Images IDs



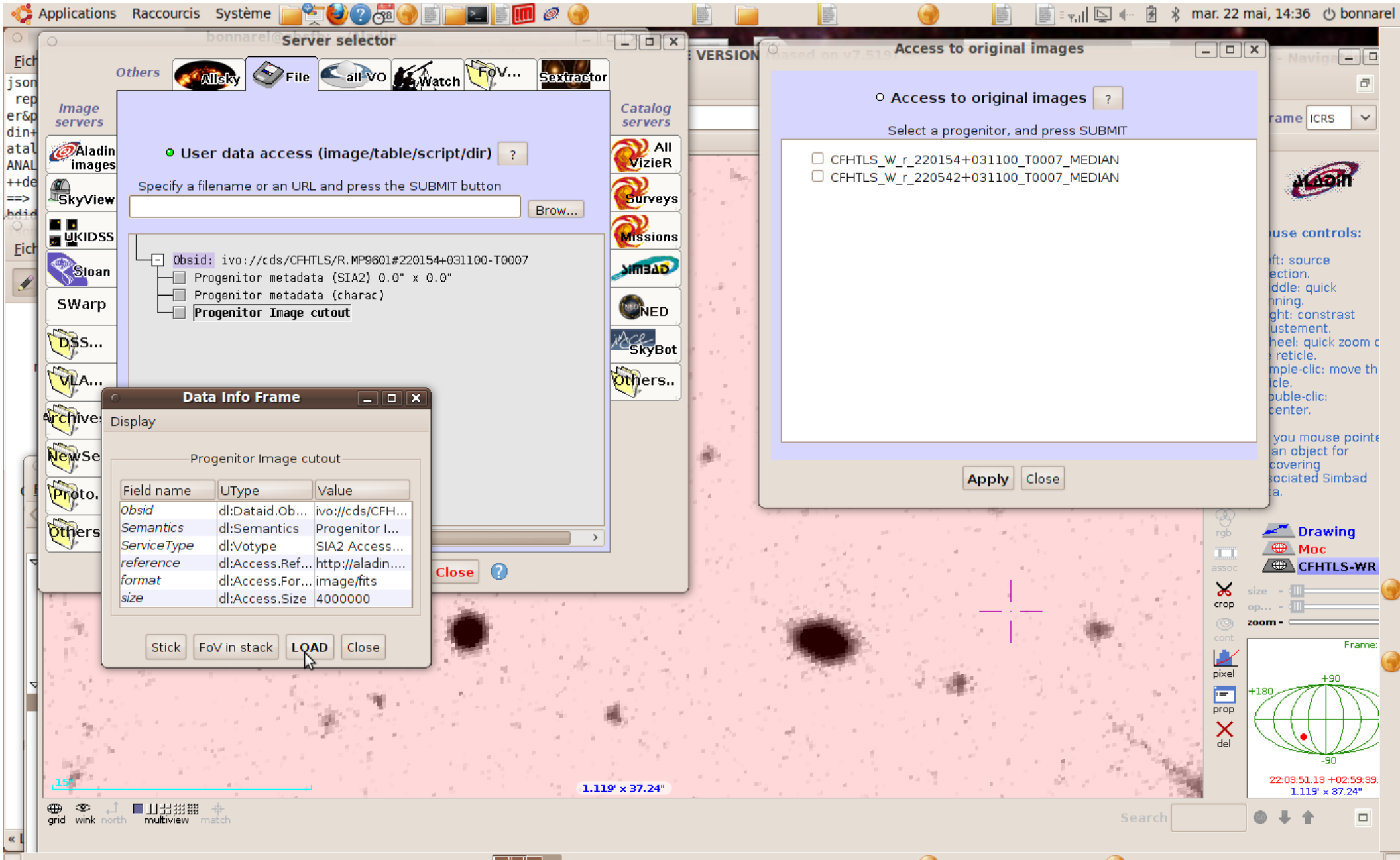
DataLink for one of the original image



SIA2 metadata for this image



2.Retrieving original image cutout



2.Cutout on top of Healpix mode display