SIA2 2D prototype

F.Bonnarel (CDS),

Development supported by the EuroVO-AIDA project

2 Methods

- Query Method
  - New response (with utypes and ucds, consistent with ObsTap Utypes but more extended, Mapping (WCS) section
  - More QUERY PARAMETERS : TIME, POL, BAND + Optionnal = (ASTCALIB, FLUXLIMIT, SPATRES, SPECRES, ...)
- Access Data Method (New!!!)
  - Cutouts in angular or pixel dimension (cfitsio syntax for the latter)
  - Transforms (resampling)

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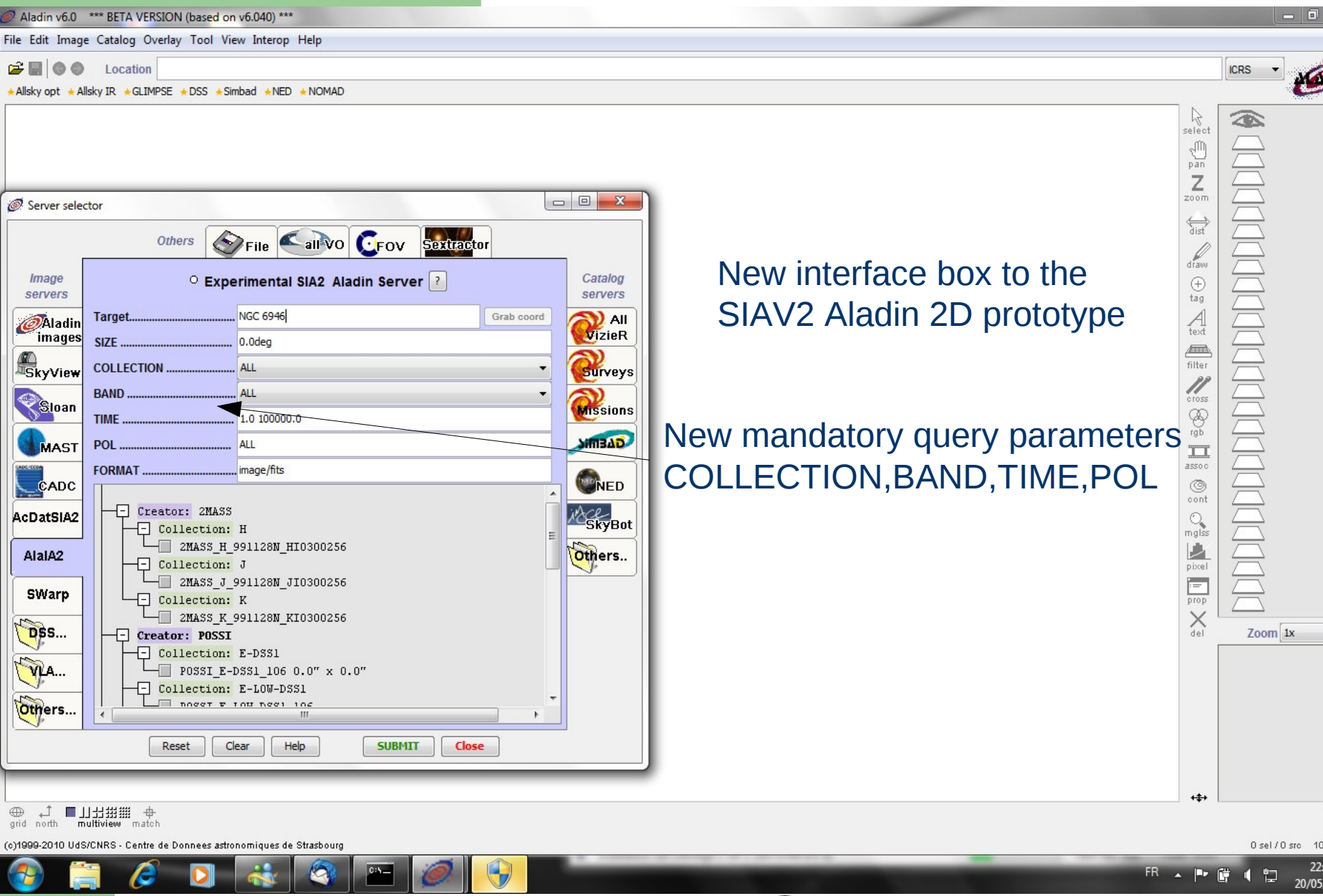
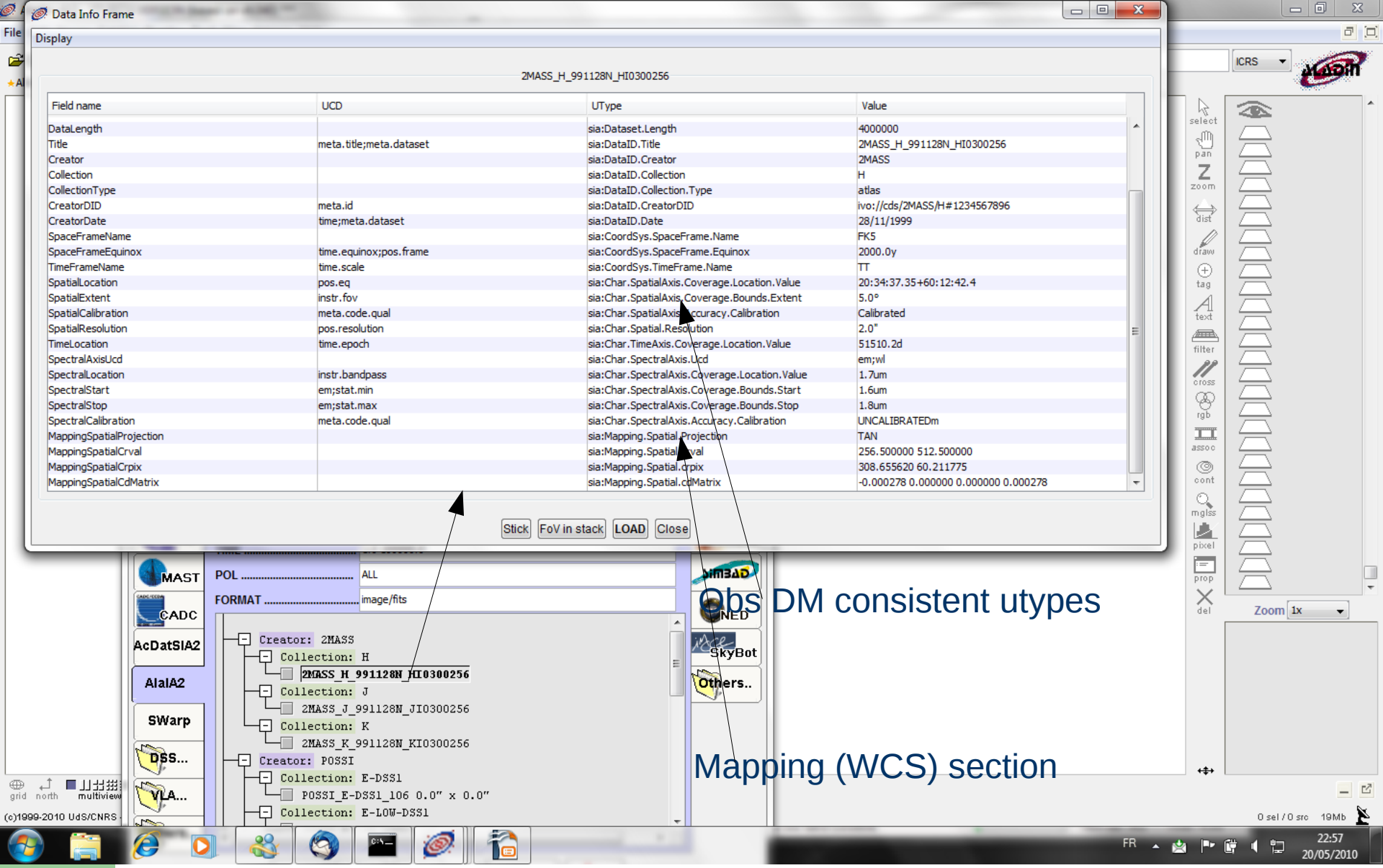


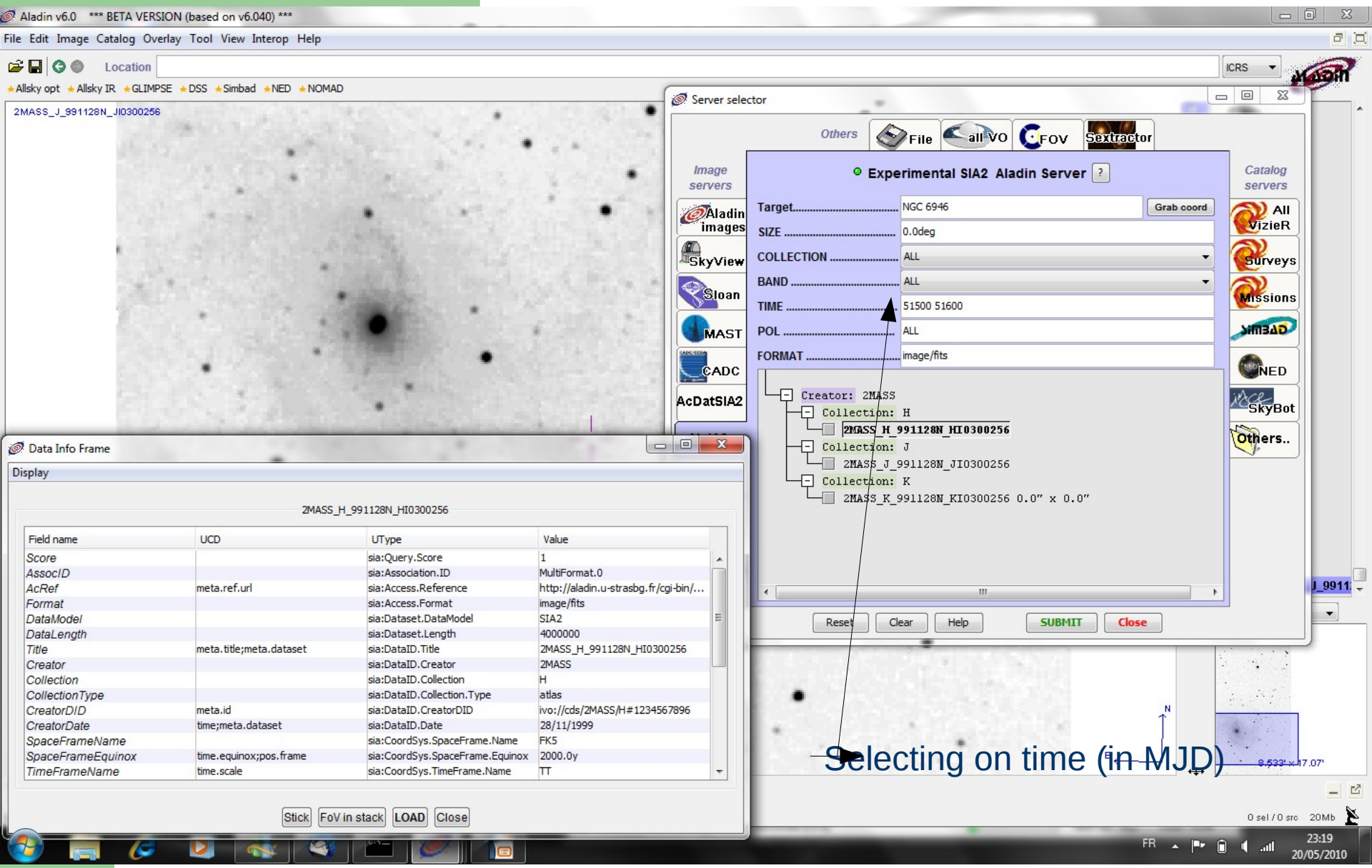
New interface box to the SIAV2 Aladin 2D prototype

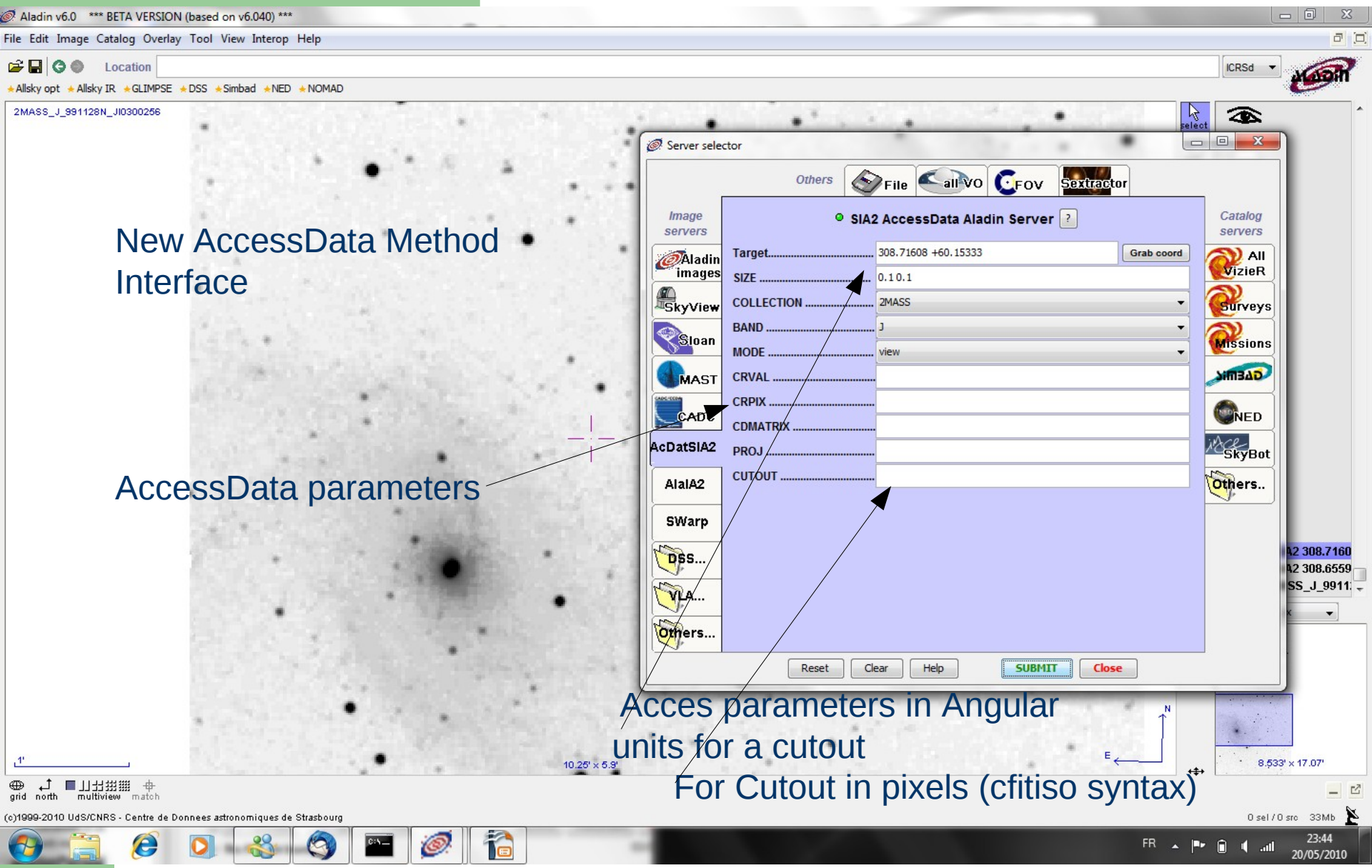
New mandatory query parameters COLLECTION,BAND,TIME,POL



Obs DM consistent utypes

Mapping (WCS) section


Aladin v6.0 *** BETA VERSION (based on v6.040) ***
File Edit Image Catalog Overlay Tool View Interop Help
Location
ICRS
Allsky opt Allsky IR GLIMPSE DSS Simbad NED NOMAD
2MASS_J_991128N_JI0300256
Server selector
Others
File
all VO
FOV
Sextractor
Image servers
Aladin images
SkyView
Sloan
MAST
CADC
AcDatSIA2
Experimental SIA2 Aladin Server
Target
NGC 6946
Grab coord
SIZE
0.0deg
COLLECTION
ALL
BAND
ALL
TIME
51500 51600
POL
ALL
FORMAT
image/fits
Creator: 2MASS
Collection: H
2MASS_H_991128N_HI0300256
Collection: J
2MASS_J_991128N_JI0300256
Collection: K
2MASS_K_991128N_KI0300256 0.0" x 0.0"
Catalog servers
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
Help
SUBMIT
Close
Data Info Frame
Display
2MASS_H_991128N_HI0300256
Field name | UCD | UType | Value
Score | | sia:Query.Score | 1
AssocID | | sia:Association.ID | MultiFormat.0
AcRef | meta.ref.url | sia:Access.Reference | http://aladin.u-strasbg.fr/cgi-bin/...
Format | | sia:Access.Format | image/fits
DataModel | | sia:Dataset.DataModel | SIA2
DataLength | | sia:Dataset.Length | 4000000
Title | meta.title;meta.dataset | sia:DataID.Title | 2MASS_H_991128N_HI0300256
Creator | | sia:DataID.Creator | 2MASS
Collection | | sia:DataID.Collection | H
CollectionType | | sia:DataID.Collection.Type | atlas
CreatorDID | meta.id | sia:DataID.CreatorDID | ivo://cds/2MASS/H#1234567896
CreatorDate | time;meta.dataset | sia:DataID.Date | 28/11/1999
SpaceFrameName | | sia:CoordSys.SpaceFrame.Name | FK5
SpaceFrameEquinox | time.equinox;pos.frame | sia:CoordSys.SpaceFrame.Equinox | 2000.0y
TimeFrameName | time.scale | sia:CoordSys.TimeFrame.Name | TT
Stick
FoV in stack
LOAD
Close
Selecting on time (in MJD)
0 sel / 0 src 20Mb
FR
23:19
20/05/2010

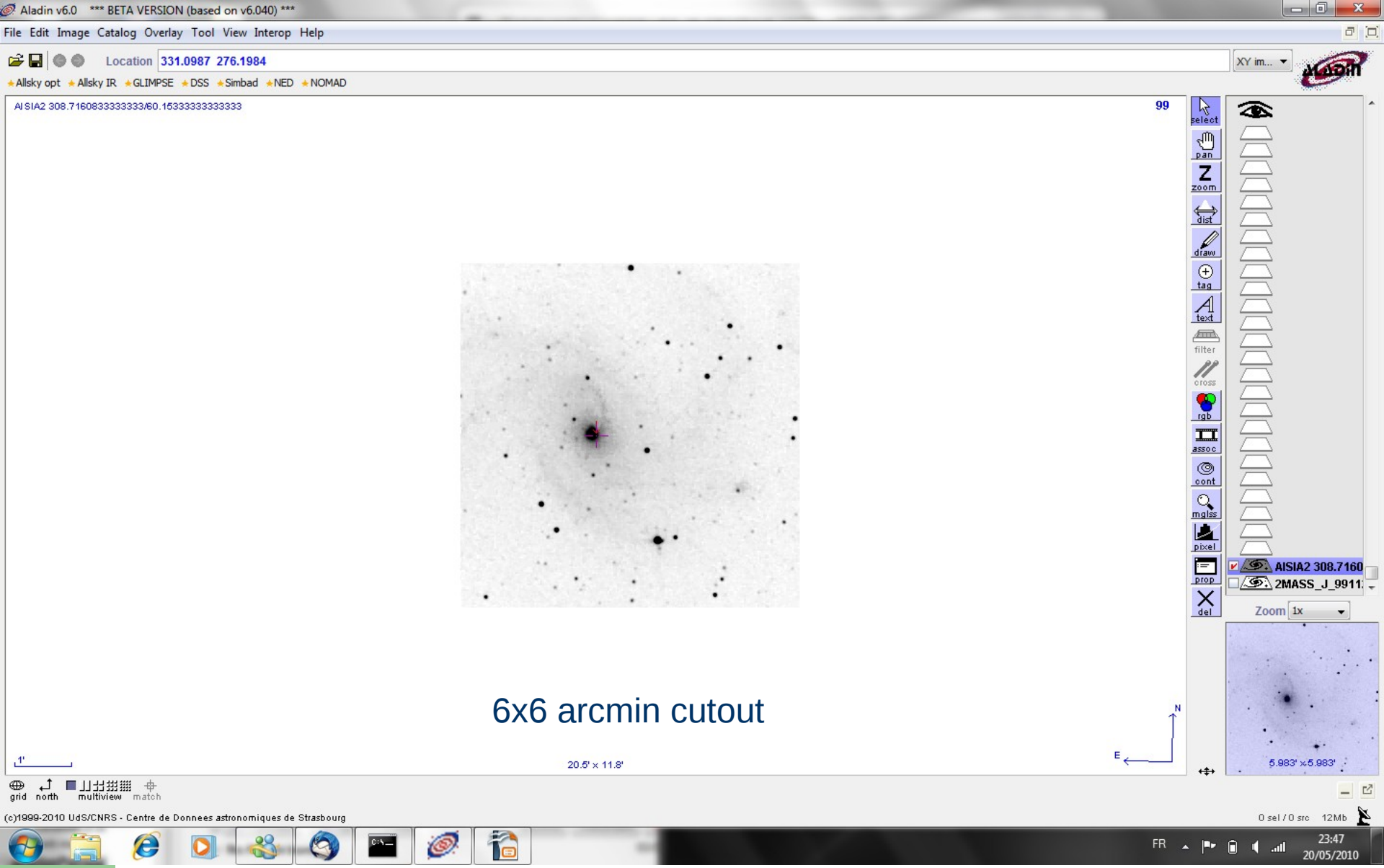


New AccessData Method Interface

AccessData parameters

Acces parameters in Angular units for a cutout

For Cutout in pixels (cfitiso syntax)



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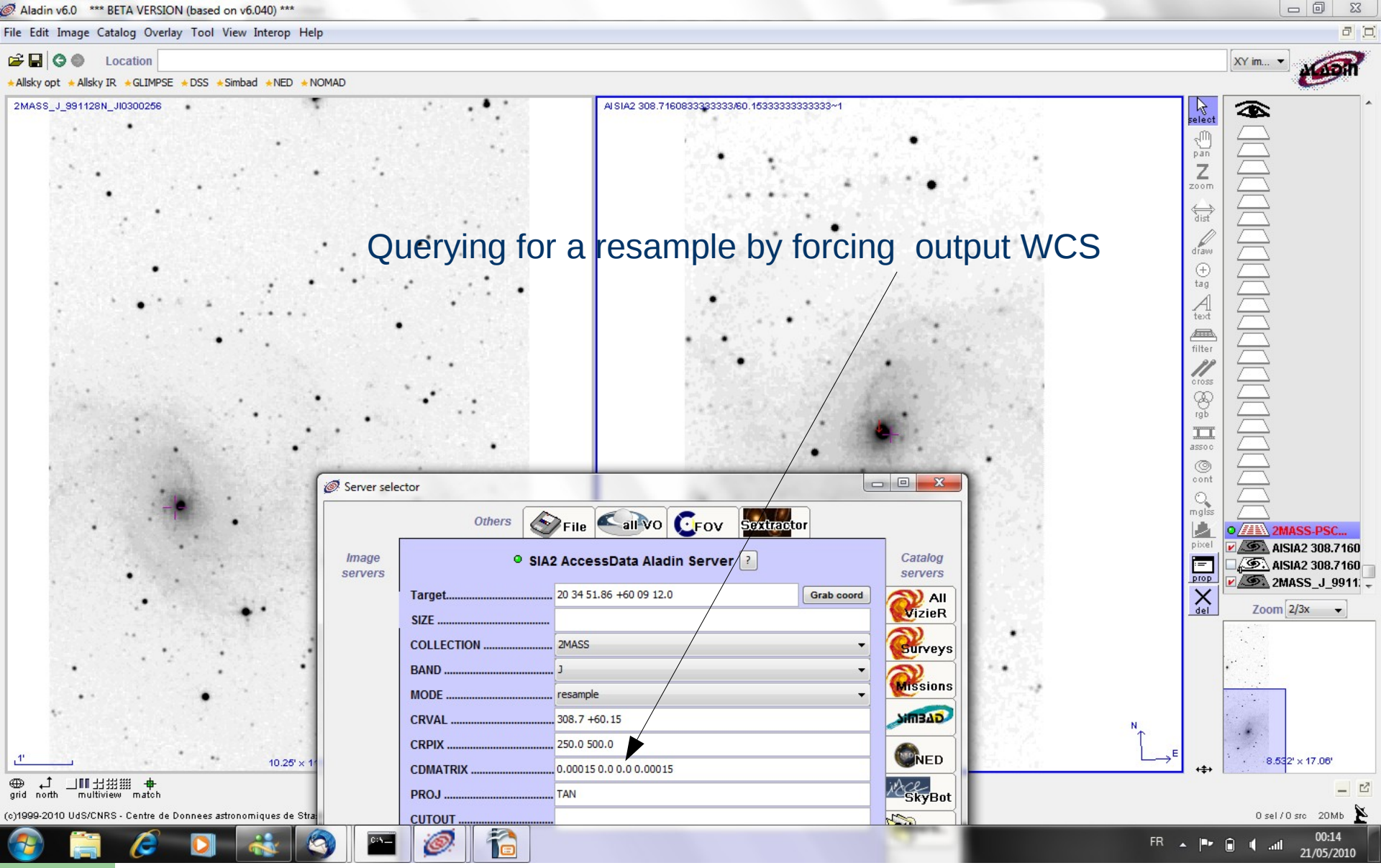
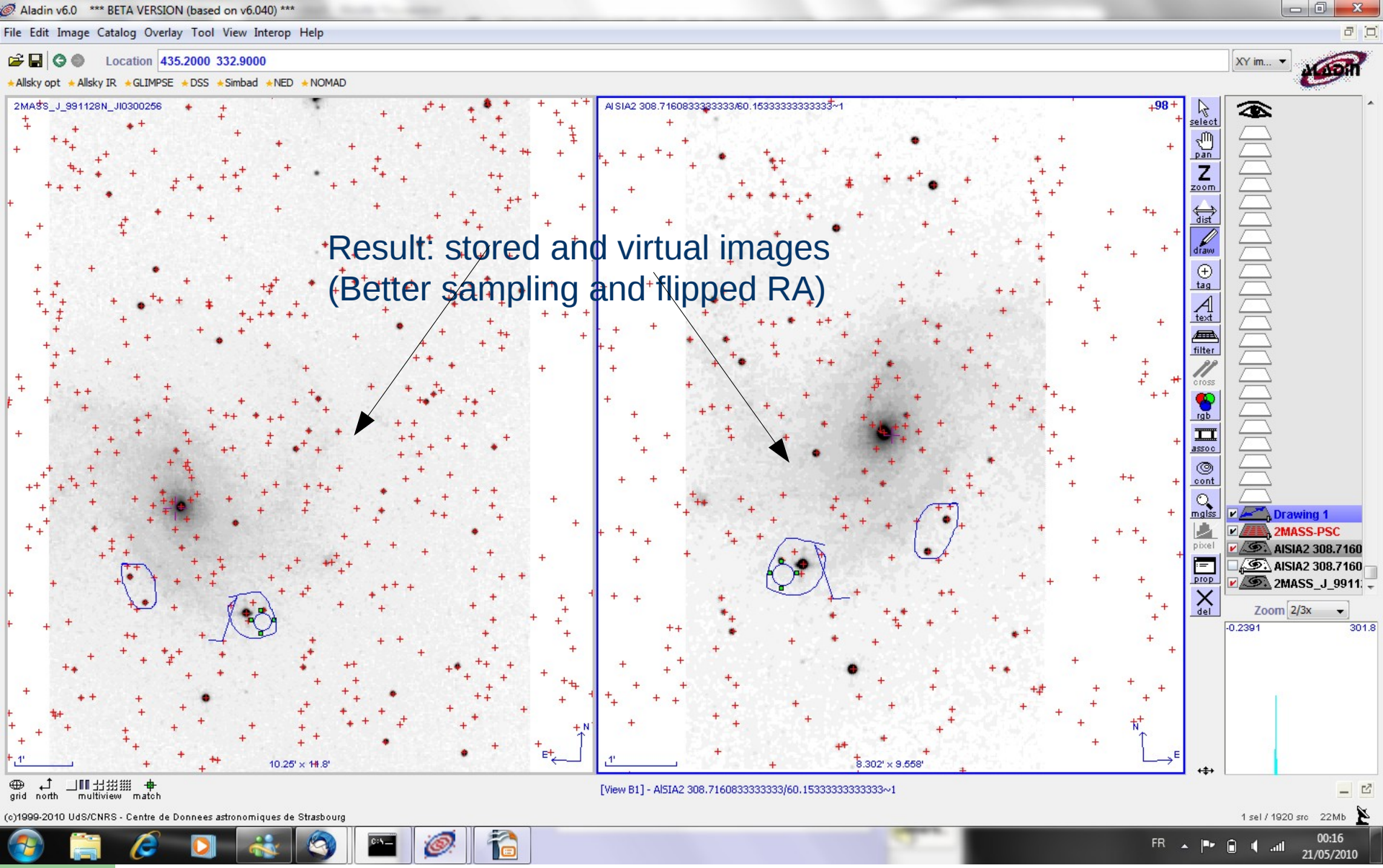
Querying for a resample by forcing output WCS




Aladin v6.0 *** BETA VERSION (based on v6.040) ***
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Allsky opt Allsky IR GLIMPSE DSS Simbad NED NOMAD
2MASS_J_991128N_JI0300256
AISIA2 308.7160833333333/60.15333333333333~1
Result: stored and virtual images
(Better sampling and flipped RA)
Drawing 1
2MASS-PSC
AISIA2 308.7160
AISIA2 308.7160
2MASS_J_9911
Zoom 2/3x
-0.2391
301.8
10.25' x 11.8'
8.302' x 9.558'
[View B1] - AISIA2 308.7160833333333/60.15333333333333~1
(c)1999-2010 UdS/CNRS - Centre de Donnees astronomiques de Strasbourg
1 sel / 1920 src 22Mb
00:16
21/05/2010

Towards 3D + Future

- IN case of 3D data
  - POL, BAND, TIME may drive real Filtering
  - Reduction of axes will be implemented
  - Cutout on 3 axes
- Link of DataAccess with Query response (via ObsID, probably)