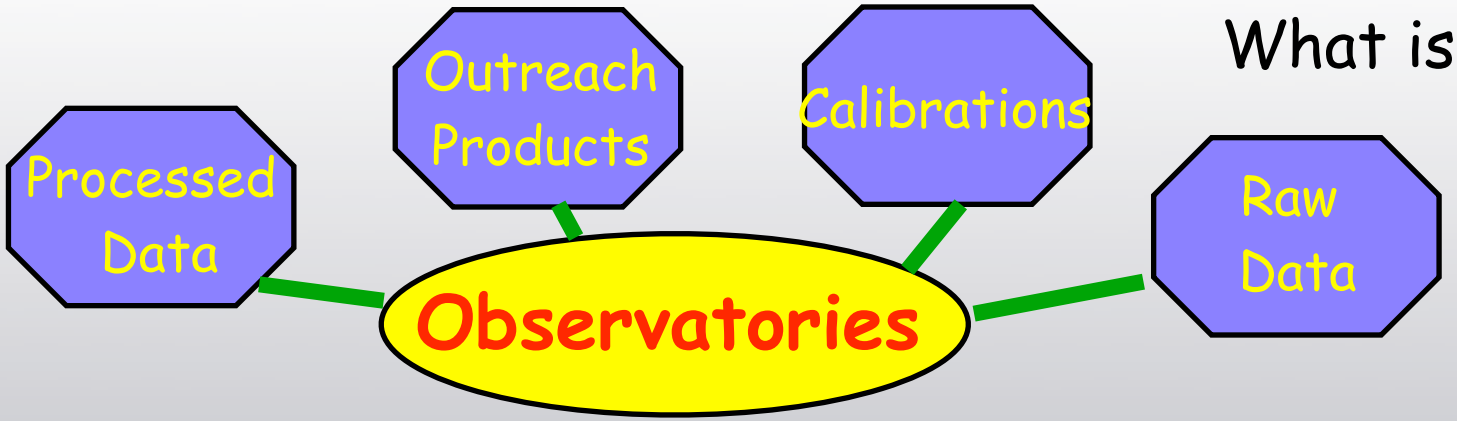
VO Tools Overview

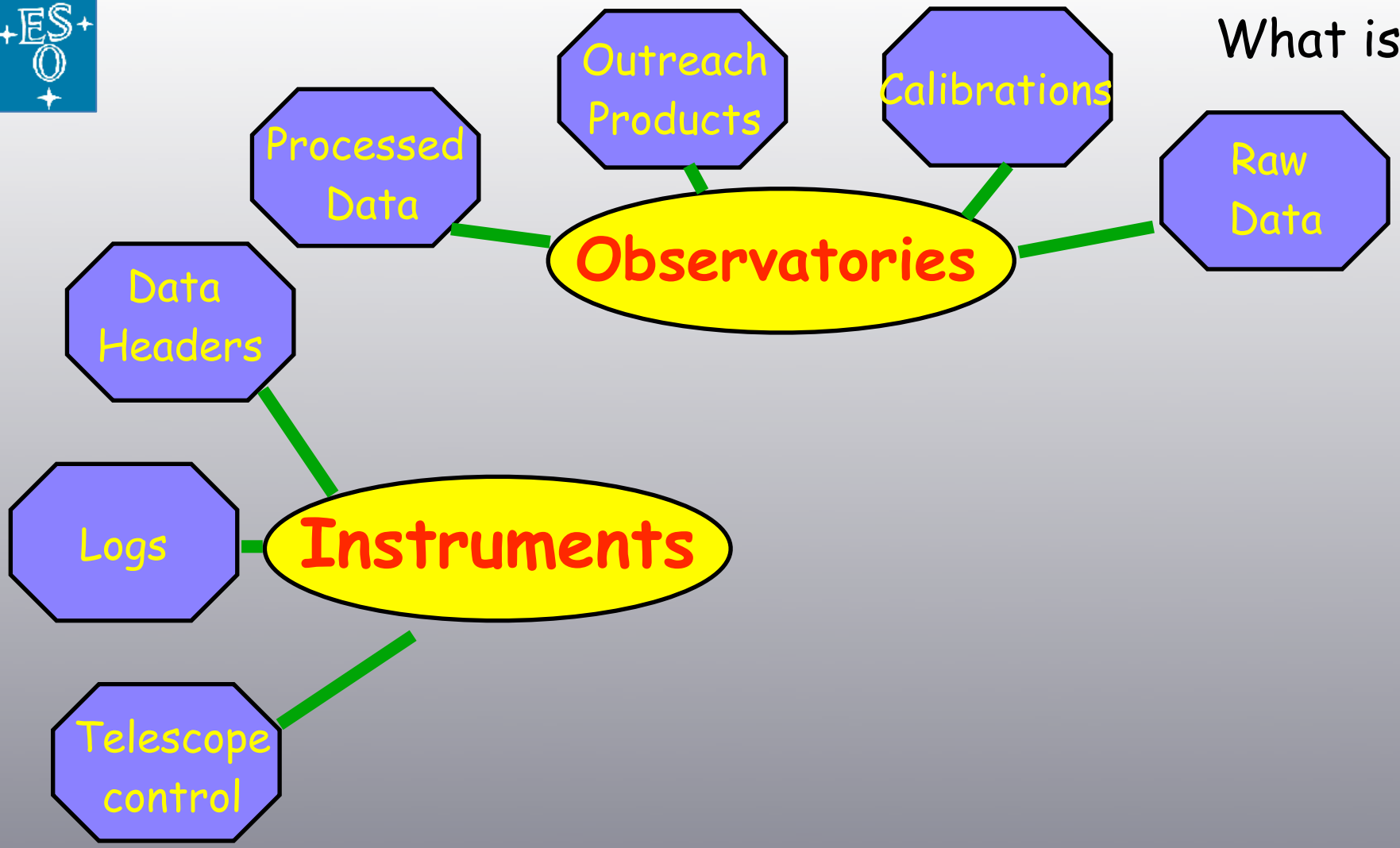
Evanthia Hatziminaoglou,
Euro-VO Facility Centre Astronomer
ESO - Garching

What is the VO?

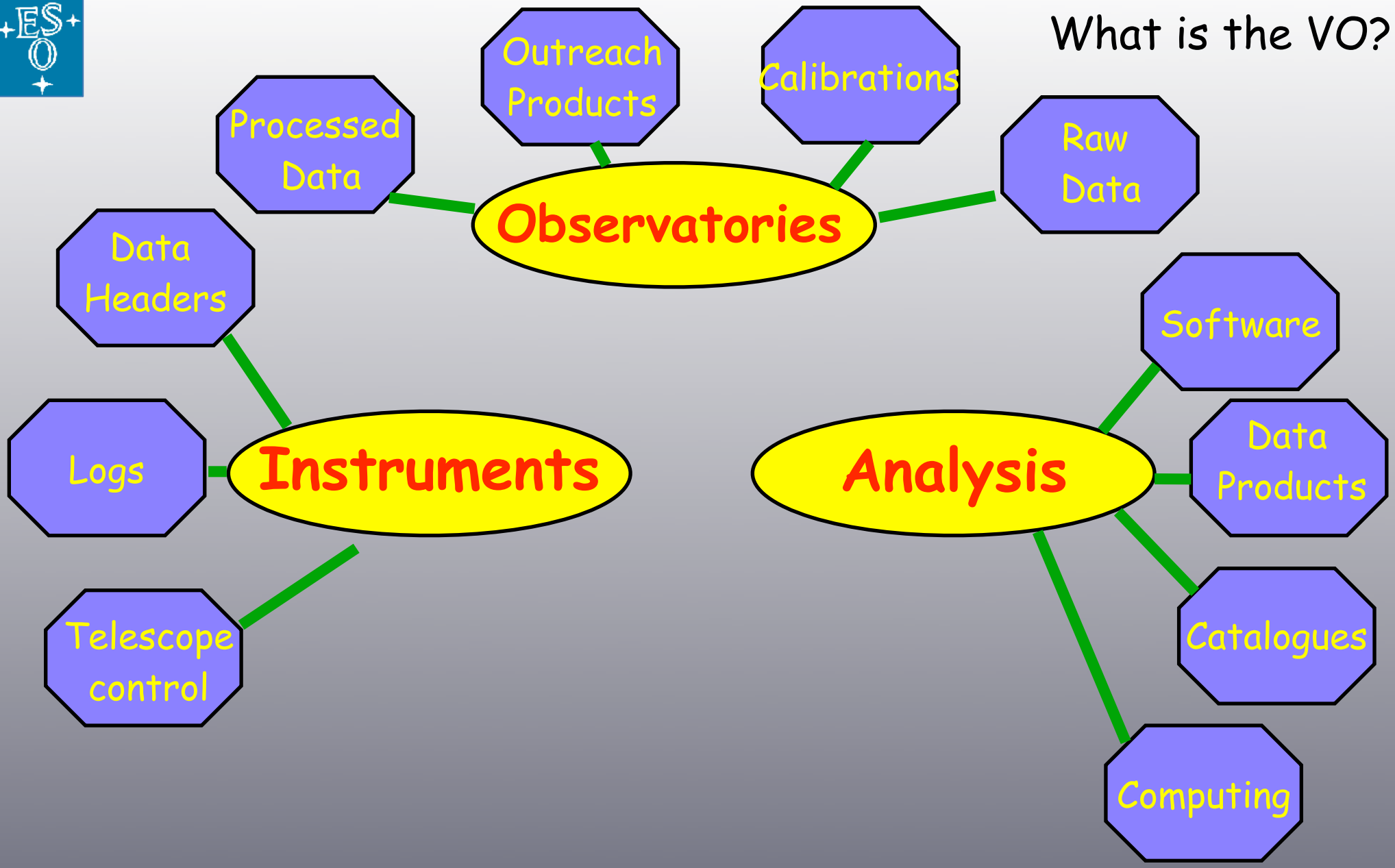
What is the VO?



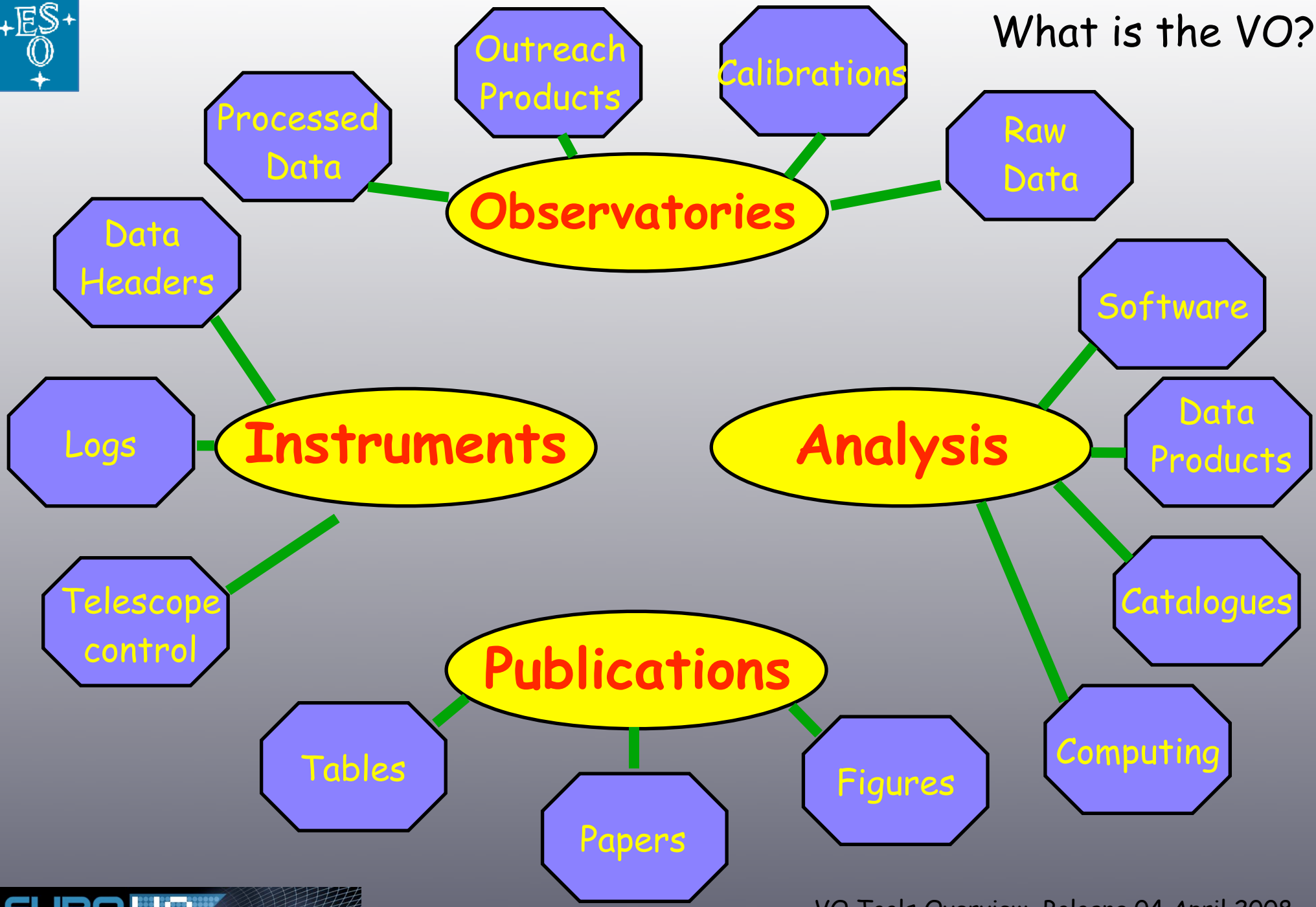
What is the VO?



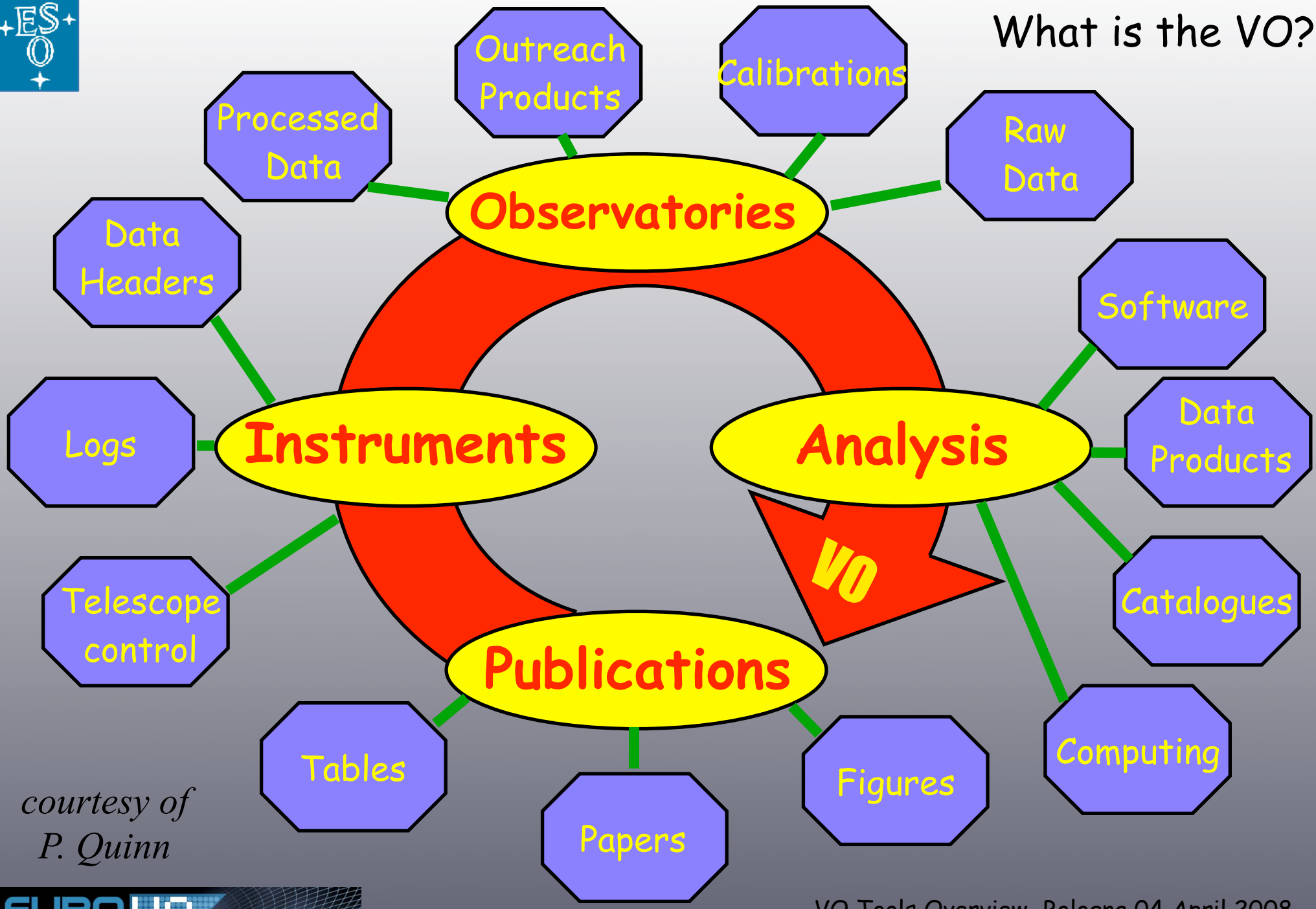
What is the VO?



What is the VO?



What is the VO?



courtesy of P. Quinn

What is the VO?

"A virtual observatory is a collection of interoperating data archives and software tools which utilize the internet to form a scientific research environment in which astronomical research programs can be conducted."

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Wikipedia

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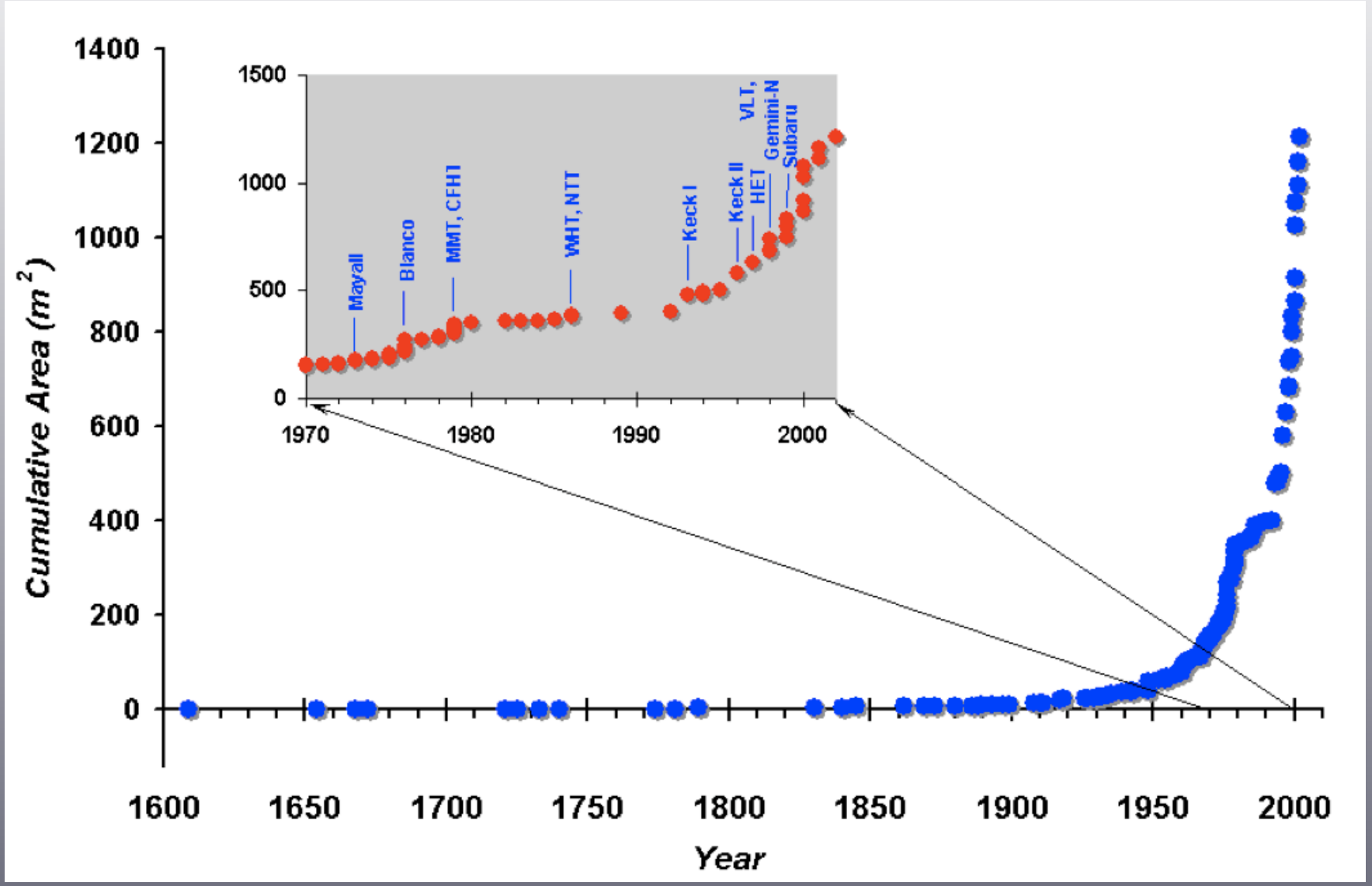
Wikipedia

Why do we need the VO?

Telescope Collective Area Increase

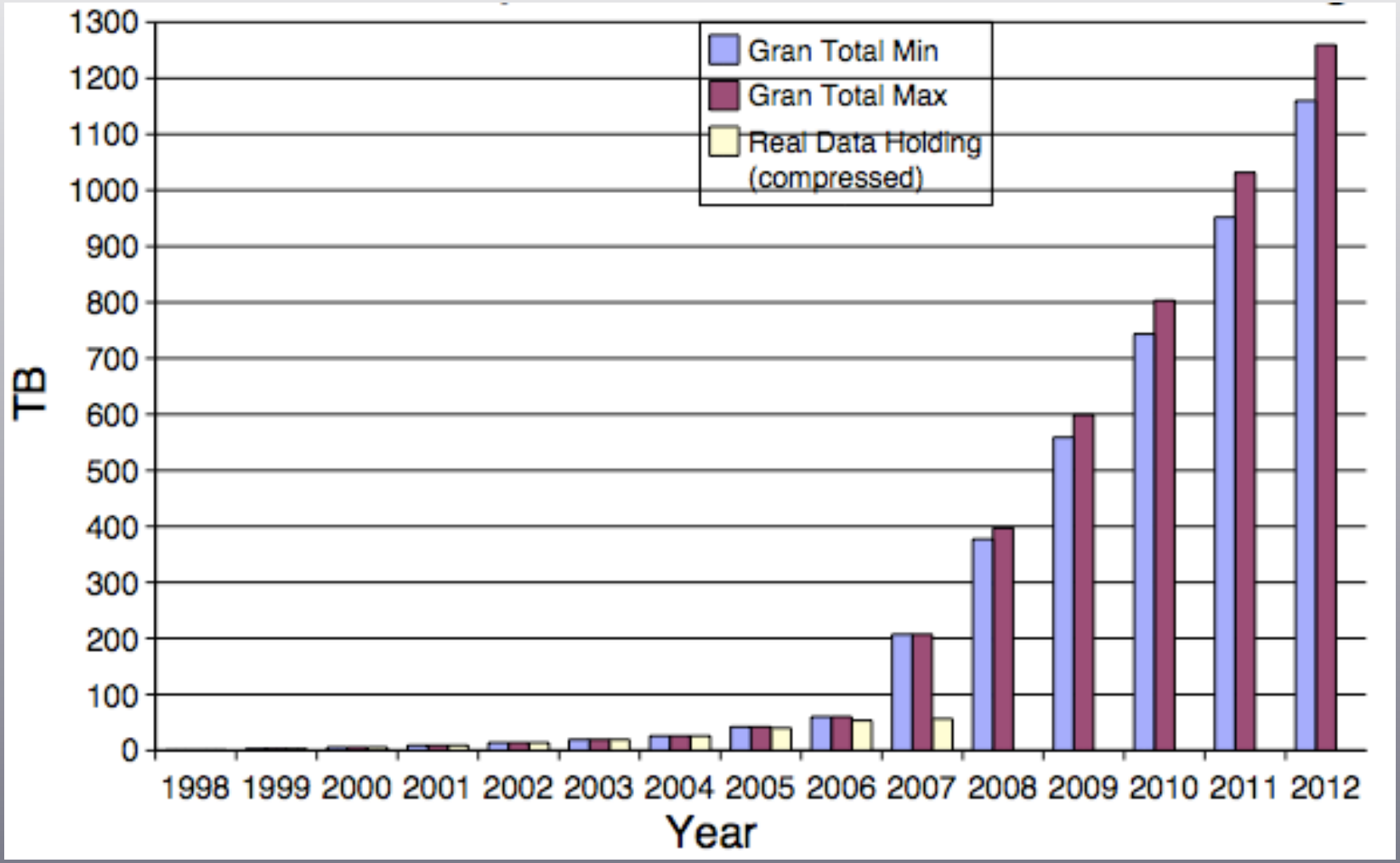
Telescope Collective Area Increase



Why do we need the VO?

ESO Archive Growth

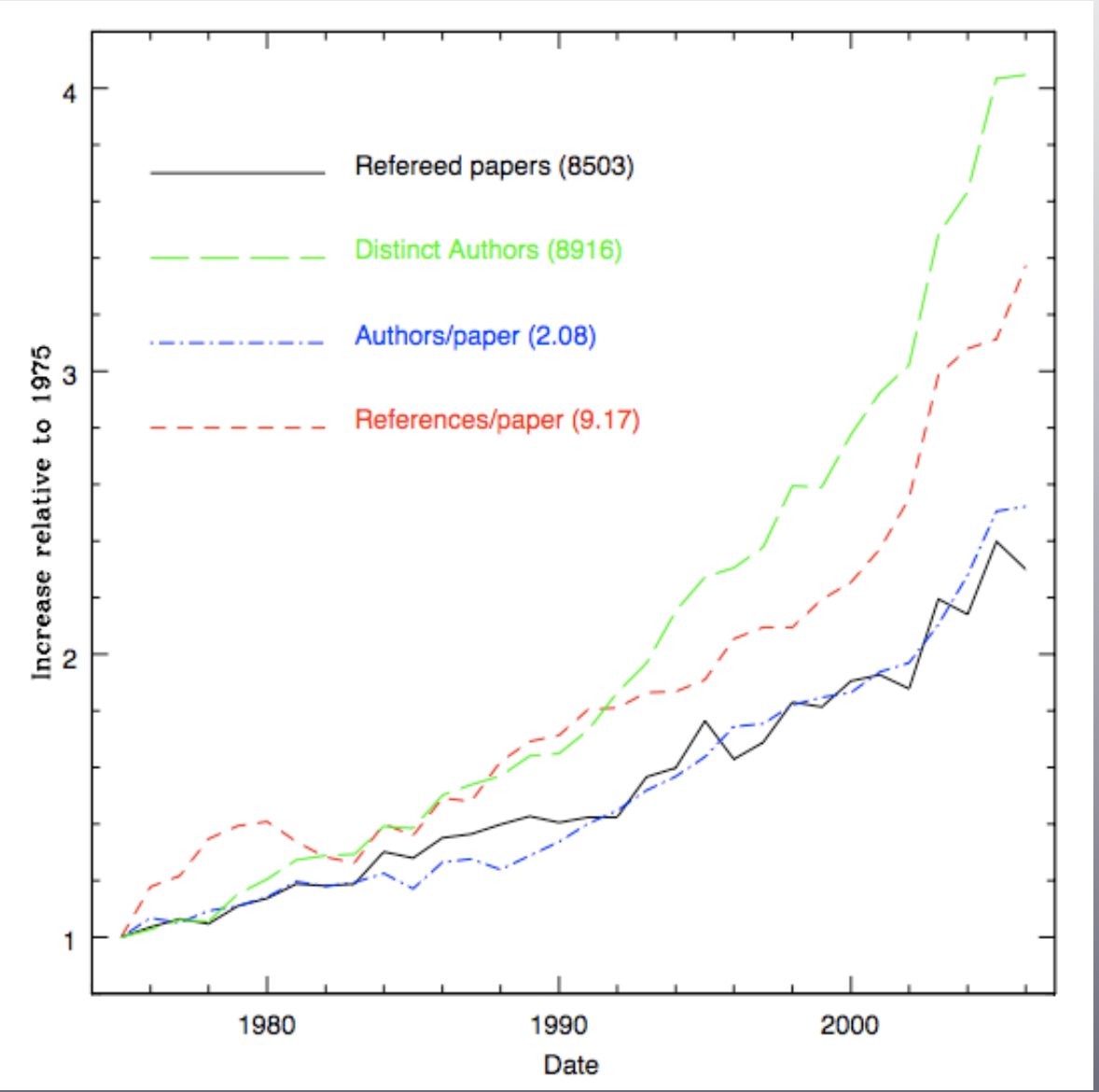
ESO Archive Growth



Why do we need the VO?

Astronomical Publications Growth

Astronomical Publications Growth



White 2007

Dictionary

Dictionary

- Registry: the yellow pages of the VO

Dictionary

- Registry: the yellow pages of the VO
- PLASTIC: PLatform for AStronomy Tool InterConnection

Dictionary

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- MySpace: virtual space storage

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- SIA: Simple Image Access

Dictionary

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- PLASTIC: PLatform for AStronomy Tool InterConnection
- MySpace: virtual space storage
- VOTable: data stored in XML format
- SIA: Simple Image Access
- SSA: Simple Spectral Access

Data Discovery			
Aladin			
VO Desktop			
Datascope			
Octet			
OpenSkyQuery			
VoEventNet			
ASPID			
NED			

Data Discovery	Spectral Analysis		
Aladin	SPLAT		
VO Desktop	VOSpec		
Datascope	Specview		
Octet	Euro-3D		
OpenSkyQuery	*NVO Spectrum*		
VoEventNet			
ASPID			
NED			

Data Discovery	Spectral Analysis	Data visualisation and handling	
Aladin	SPLAT	TopCat	
VO Desktop	VOSpec	STILTS	
Datascope	Specview	VOPlot	
Octet	Euro-3D	VisIVO	
OpenSkyQuery	*NVO Spectrum*	VOCat	
VoEventNet		*Montage*	
ASPID		*VOStat*	
NED		*NVO Footprint*	

Data Discovery	Spectral Analysis	Data visualisation and handling	SED building and fitting
Aladin	SPLAT	TopCat	VOSED
VO Desktop	VOSpec	STILTS	Yafit
Datascope	Specview	VOPlot	easy-z
Octet	Euro-3D	VisIVO	GOSSIP
OpenSkyQuery	*NVO Spectrum*	VOCat	*NVO Filter*
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VoEventNet		*Montage*	
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Aladin Sky Atlas

http://aladin.u-strasbg.fr/

Aladin Sky Atlas

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Description

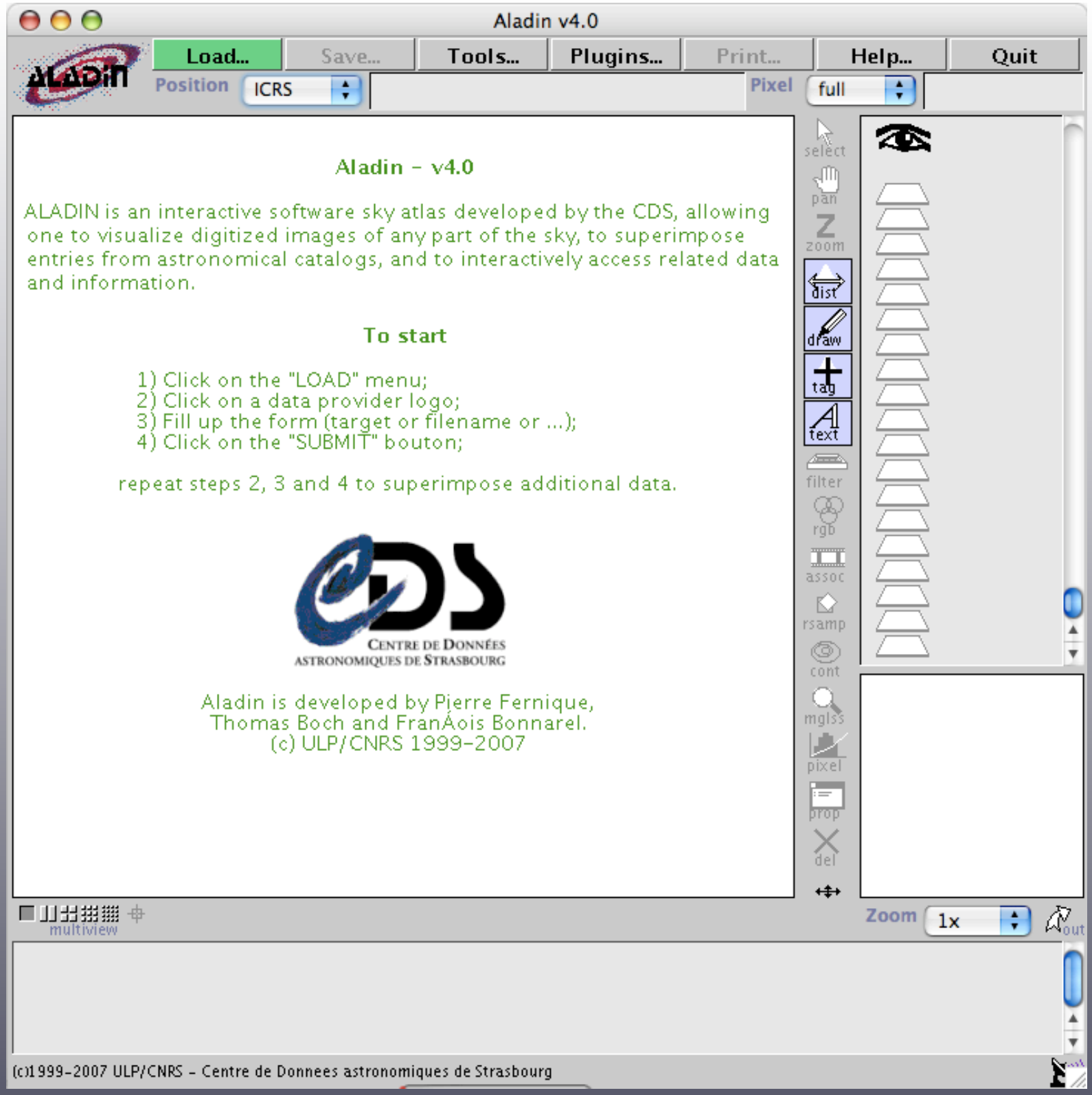
Aladin Sky Atlas

http://aladin.u-strasbg.fr/

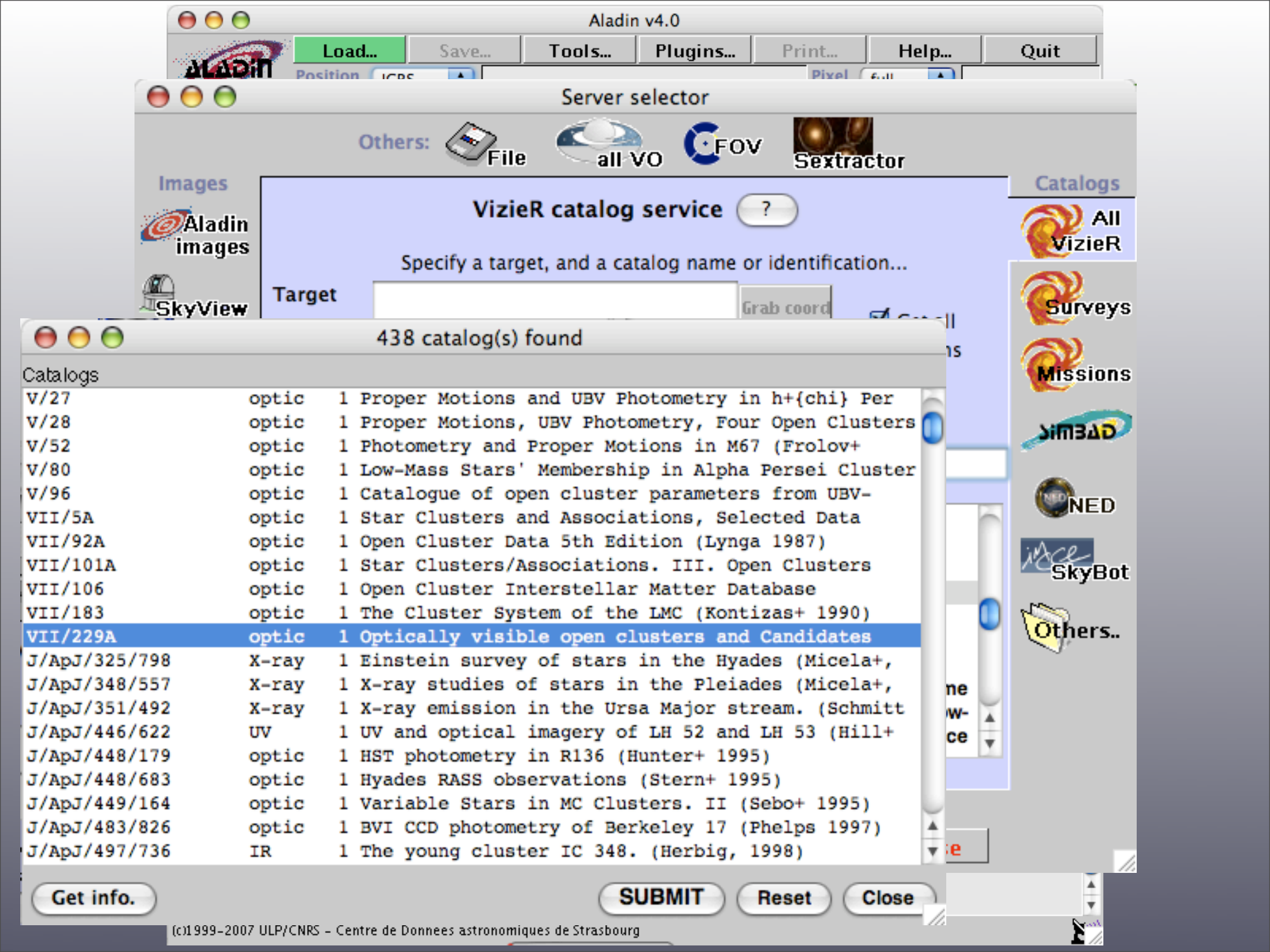
Description

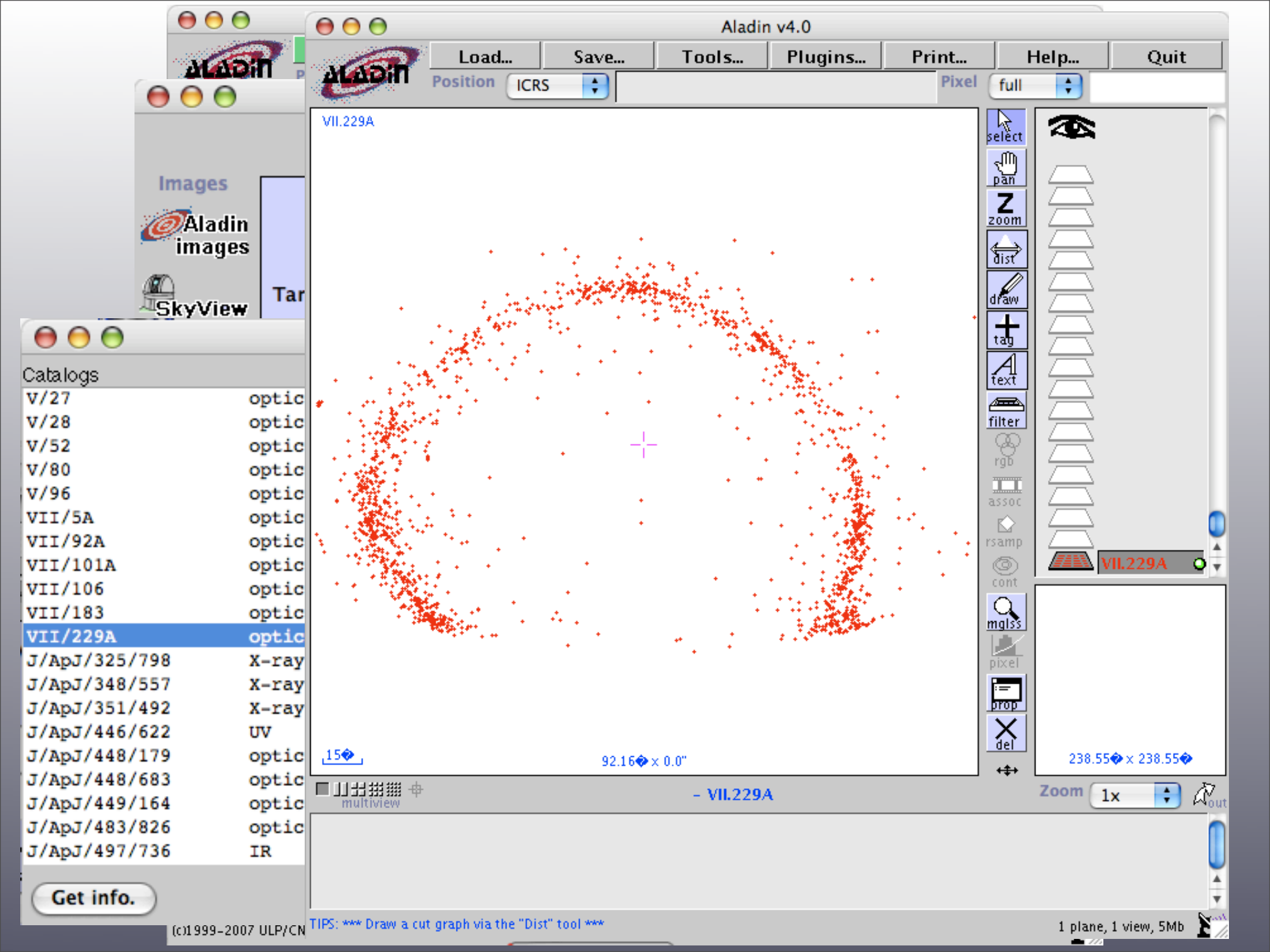
Aladin is an interactive software sky atlas allowing the user to visualize digitized astronomical images, superimpose entries from astronomical catalogues or databases, and interactively access related data and information from the Simbad database, the VizieR service and other archives for all known sources in the field.

The Aladin sky atlas is available in three modes: a Java Standalone application, a Java applet interface and a simple previewer.

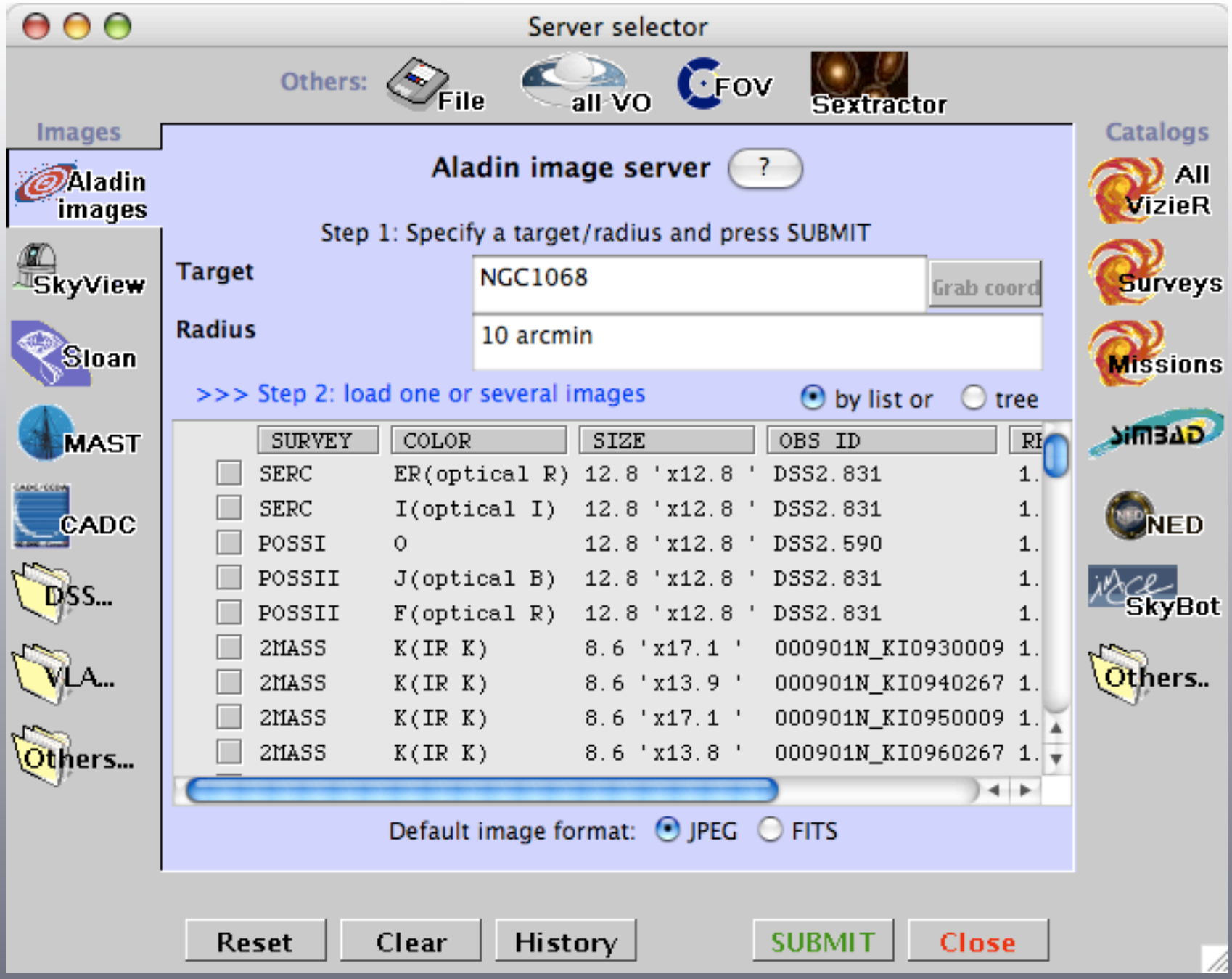

Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Position
ICRS
Pixel
full
Aladin - v4.0
ALADIN is an interactive software sky atlas developed by the CDS, allowing one to visualize digitized images of any part of the sky, to superimpose entries from astronomical catalogs, and to interactively access related data and information.
To start
1) Click on the "LOAD" menu;
2) Click on a data provider logo;
3) Fill up the form (target or filename or ...);
4) Click on the "SUBMIT" bouton;
repeat steps 2, 3 and 4 to superimpose additional data.
CENTRE DE DONNÉES ASTRONOMIQUES DE STRASBOURG
Aladin is developed by Pierre Fernique, Thomas Boch and FranÁois Bonnarel.
(c) ULP/CNRS 1999-2007
select
pan
zoom
dist
draw
tag
text
filter
rgb
assoc
rsamp
cont
mglss
pixel
prop
del
multiview
Zoom
1x
out
(c)1999-2007 ULP/CNRS - Centre de Donnees astronomiques de Strasbourg


Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
VizieR catalog service
?
Specify a target, and a catalog name or identification...
Target
Grab coord
Catalog
Radius
14.0'
Get all columns
... don't know which catalog ? Select the potentially interesting ones with words/keywords !
Author, free text...:
Wavelength
Radio
IR
optical
UV
EUV
X-ray
Gamma-ray
Mission
ANS
ASCA
BeppoSAX
CGRO
COBE
Chandra
Copernicus
EUVE
EXOSAT
Einstein
Astronomy
Nonstellar
Novae
Obs_Log
Open_Clusters
Orbits
Parallaxes
Photometry
Photometry:interme
Photometry:narrow-
Photometry:surface
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
History
SUBMIT
Close
(c)1999-2007 ULP/CNRS - Centre de Donnees astronomiques de Strasbourg


Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
VizieR catalog service
?
Specify a target, and a catalog name or identification...
Target
Grab coord
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
438 catalog(s) found
Catalogs
V/27 optic 1 Proper Motions and UBV Photometry in h+{chi} Per
V/28 optic 1 Proper Motions, UBV Photometry, Four Open Clusters
V/52 optic 1 Photometry and Proper Motions in M67 (Frolov+
V/80 optic 1 Low-Mass Stars' Membership in Alpha Persei Cluster
V/96 optic 1 Catalogue of open cluster parameters from UBV-
VII/5A optic 1 Star Clusters and Associations, Selected Data
VII/92A optic 1 Open Cluster Data 5th Edition (Lynga 1987)
VII/101A optic 1 Star Clusters/Associations. III. Open Clusters
VII/106 optic 1 Open Cluster Interstellar Matter Database
VII/183 optic 1 The Cluster System of the LMC (Kontizas+ 1990)
VII/229A optic 1 Optically visible open clusters and Candidates
J/ApJ/325/798 X-ray 1 Einstein survey of stars in the Hyades (Micela+,
J/ApJ/348/557 X-ray 1 X-ray studies of stars in the Pleiades (Micela+,
J/ApJ/351/492 X-ray 1 X-ray emission in the Ursa Major stream. (Schmitt
J/ApJ/446/622 UV 1 UV and optical imagery of LH 52 and LH 53 (Hill+
J/ApJ/448/179 optic 1 HST photometry in R136 (Hunter+ 1995)
J/ApJ/448/683 optic 1 Hyades RASS observations (Stern+ 1995)
J/ApJ/449/164 optic 1 Variable Stars in MC Clusters. II (Sebo+ 1995)
J/ApJ/483/826 optic 1 BVI CCD photometry of Berkeley 17 (Phelps 1997)
J/ApJ/497/736 IR 1 The young cluster IC 348. (Herbig, 1998)
Get info.
SUBMIT
Reset
Close
(c)1999-2007 ULP/CNRS - Centre de Donnees astronomiques de Strasbourg


Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Position
ICRS
Pixel
full
VII.229A
select
pan
zoom
dist
draw
tag
text
filter
rgb
assoc
rsamp
cont
mglss
pixel
prop
del
15°
92.16° x 0.0"
238.55° x 238.55°
multiview
- VII.229A
Zoom
1x
out
Images
Aladin images
SkyView
Tar
Catalogs
V/27 optic
V/28 optic
V/52 optic
V/80 optic
V/96 optic
VII/5A optic
VII/92A optic
VII/101A optic
VII/106 optic
VII/183 optic
VII/229A optic
J/ApJ/325/798 X-ray
J/ApJ/348/557 X-ray
J/ApJ/351/492 X-ray
J/ApJ/446/622 UV
J/ApJ/448/179 optic
J/ApJ/448/683 optic
J/ApJ/449/164 optic
J/ApJ/483/826 optic
J/ApJ/497/736 IR
Get info.
(c)1999-2007 ULP/CN
TIPS: *** Draw a cut graph via the "Dist" tool ***
1 plane, 1 view, 5Mb


Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
Aladin image server
?
>>> Step 1: Specify a target/radius and press SUBMIT
Target
NGC1068
Grab coord
Radius
10 arcmin
Step 2: load one or several images
by list or
tree
Default image format:
JPEG
FITS
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
History
SUBMIT
Close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Target
NGC1068
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SURVEY COLOR SIZE OBS ID
SERC ER(optical R) 12.8 'x12.8 ' DSS2.831 1.
SERC I(optical I) 12.8 'x12.8 ' DSS2.831 1.
POSSI O 12.8 'x12.8 ' DSS2.590 1.
POSSII J(optical B) 12.8 'x12.8 ' DSS2.831 1.
POSSII F(optical R) 12.8 'x12.8 ' DSS2.831 1.
2MASS K(IR K) 8.6 'x17.1 ' 000901N_KI0930009 1.
2MASS K(IR K) 8.6 'x13.9 ' 000901N_KI0940267 1.
2MASS K(IR K) 8.6 'x17.1 ' 000901N_KI0950009 1.
2MASS K(IR K) 8.6 'x13.8 ' 000901N_KI0960267 1.
Default image format:
JPEG
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Reset
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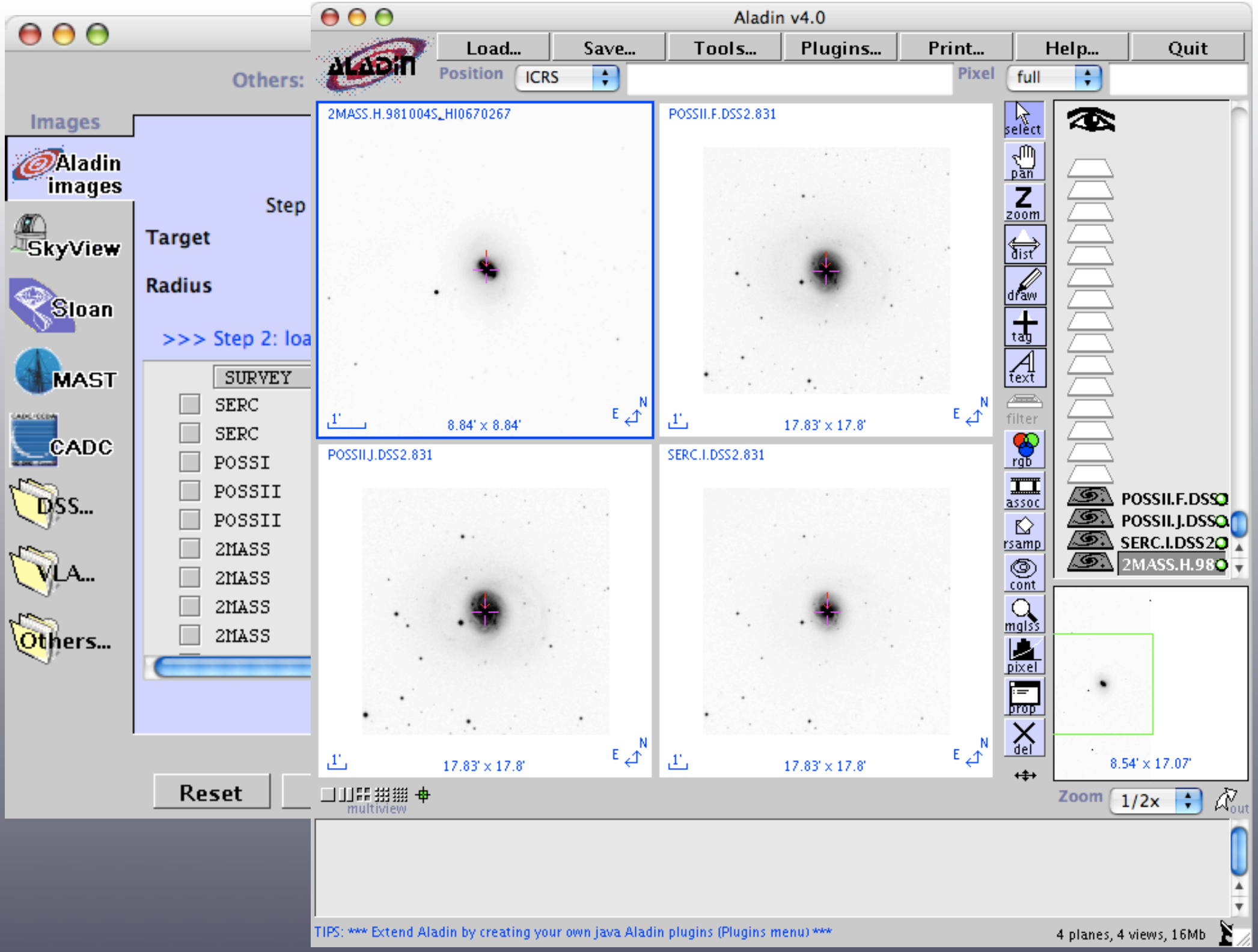
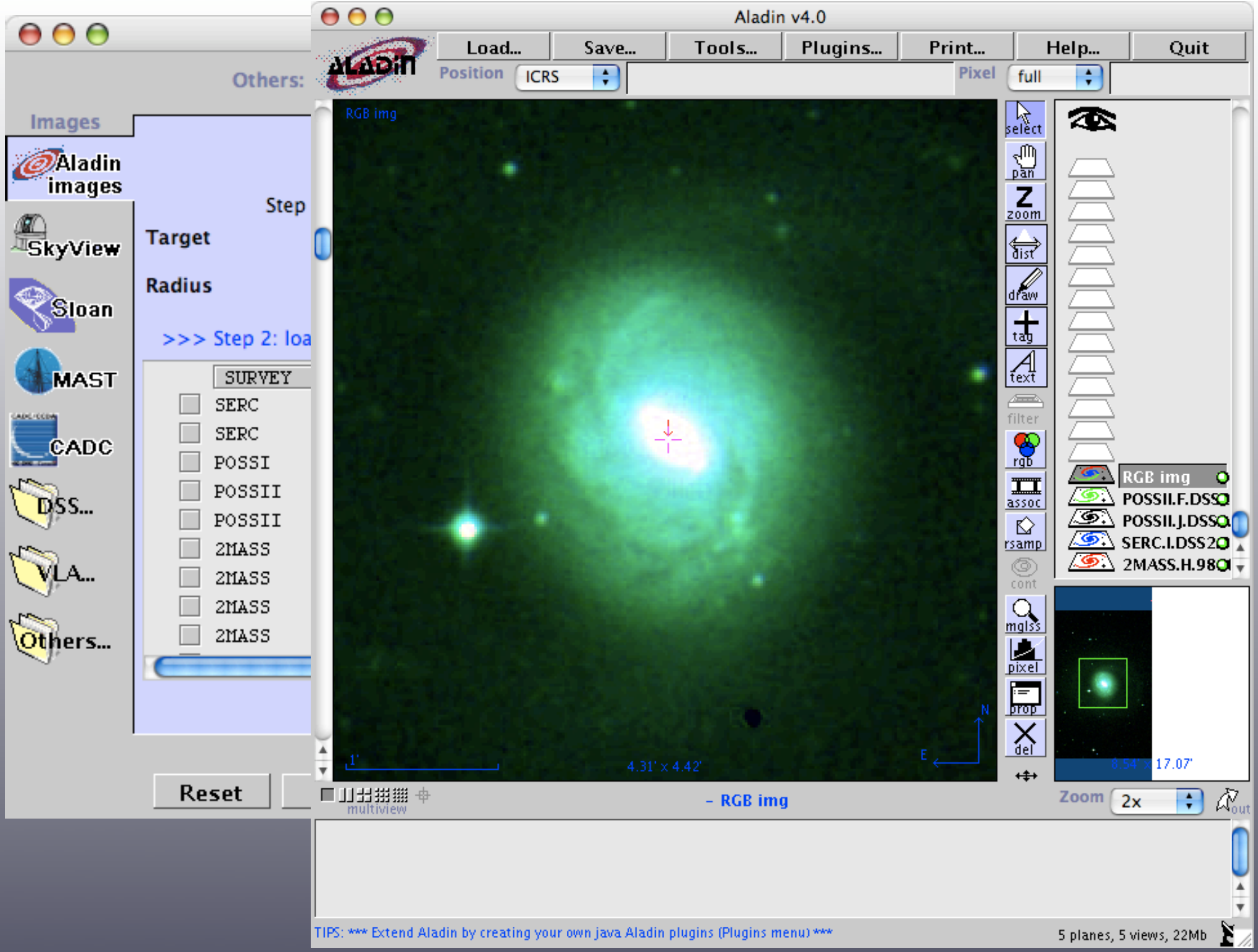
Close


Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Position
ICRS
Pixel
full
2MASS.H.981004S_HI0670267
POSSII.F.DSS2.831
POSSII.J.DSS2.831
SERC.I.DSS2.831
8.84' x 8.84'
17.83' x 17.8'
17.83' x 17.8'
17.83' x 17.8'
select
pan
zoom
dist
draw
tag
text
filter
rgb
assoc
rsamp
cont
mglss
pixel
prop
del
POSSII.F.DSS
POSSII.J.DSS
SERC.I.DSS2
2MASS.H.98
8.54' x 17.07'
Zoom
1/2x
out
multiview
Others:
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
Step
Target
Radius
>>> Step 2: loa
SURVEY
SERC
SERC
POSSI
POSSII
POSSII
2MASS
2MASS
2MASS
2MASS
Reset
TIPS: *** Extend Aladin by creating your own java Aladin plugins (Plugins menu) ***
4 planes, 4 views, 16Mb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Load...
Save...
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Plugins...
Print...
Help...
Quit
Position
ICRS
Pixel
full
RGB img
select
pan
zoom
dist
draw
tag
text
filter
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rsamp
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mglss
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prop
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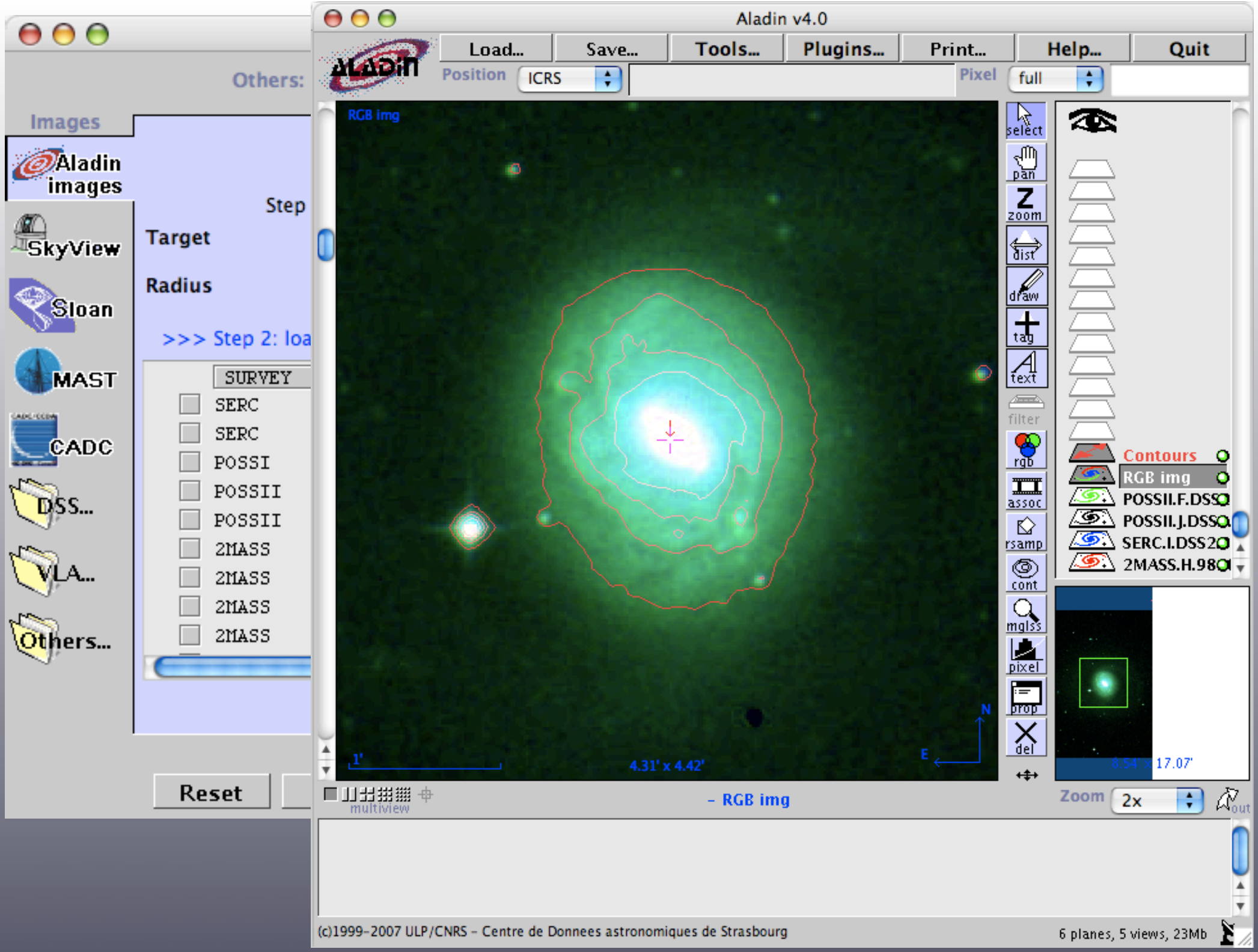
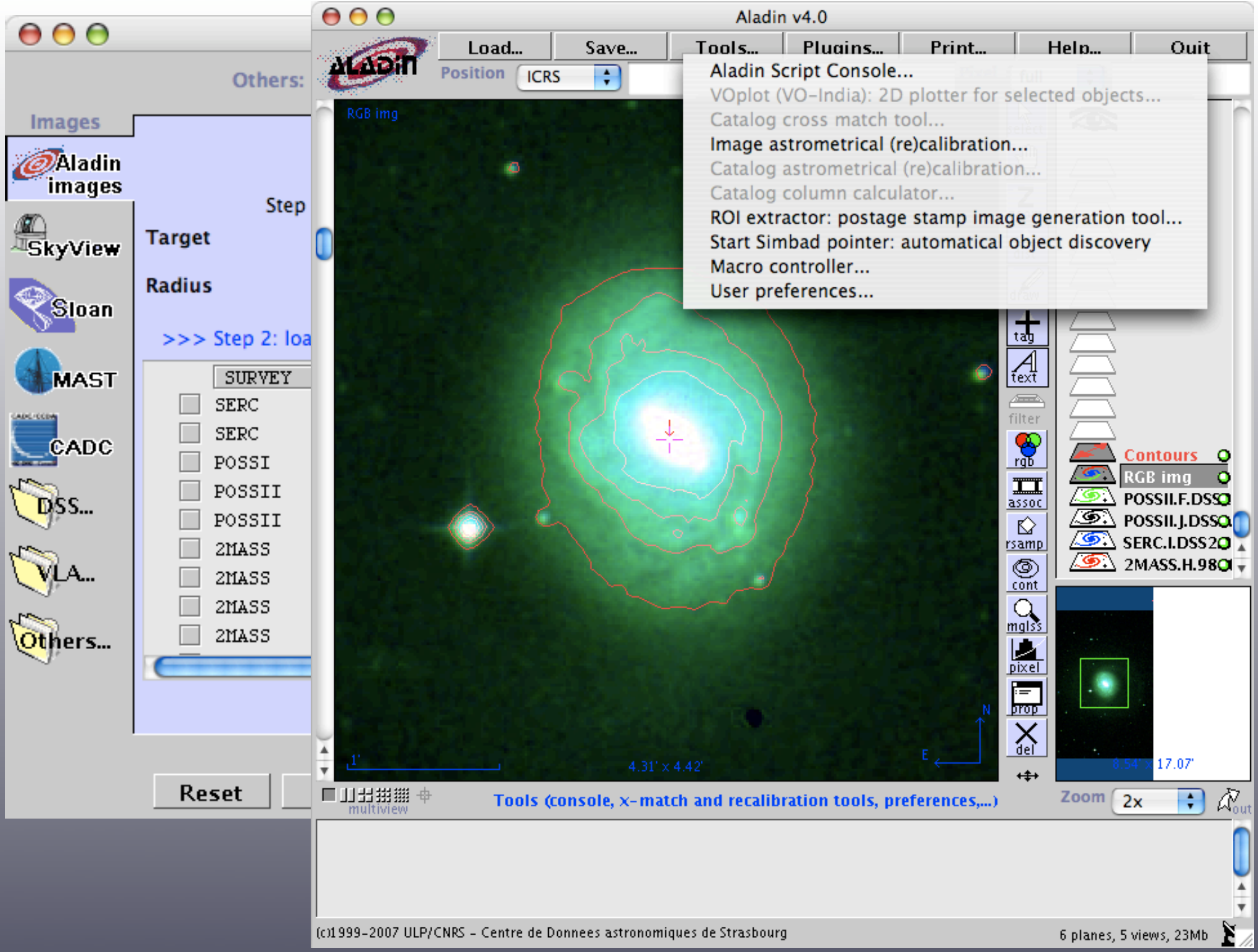
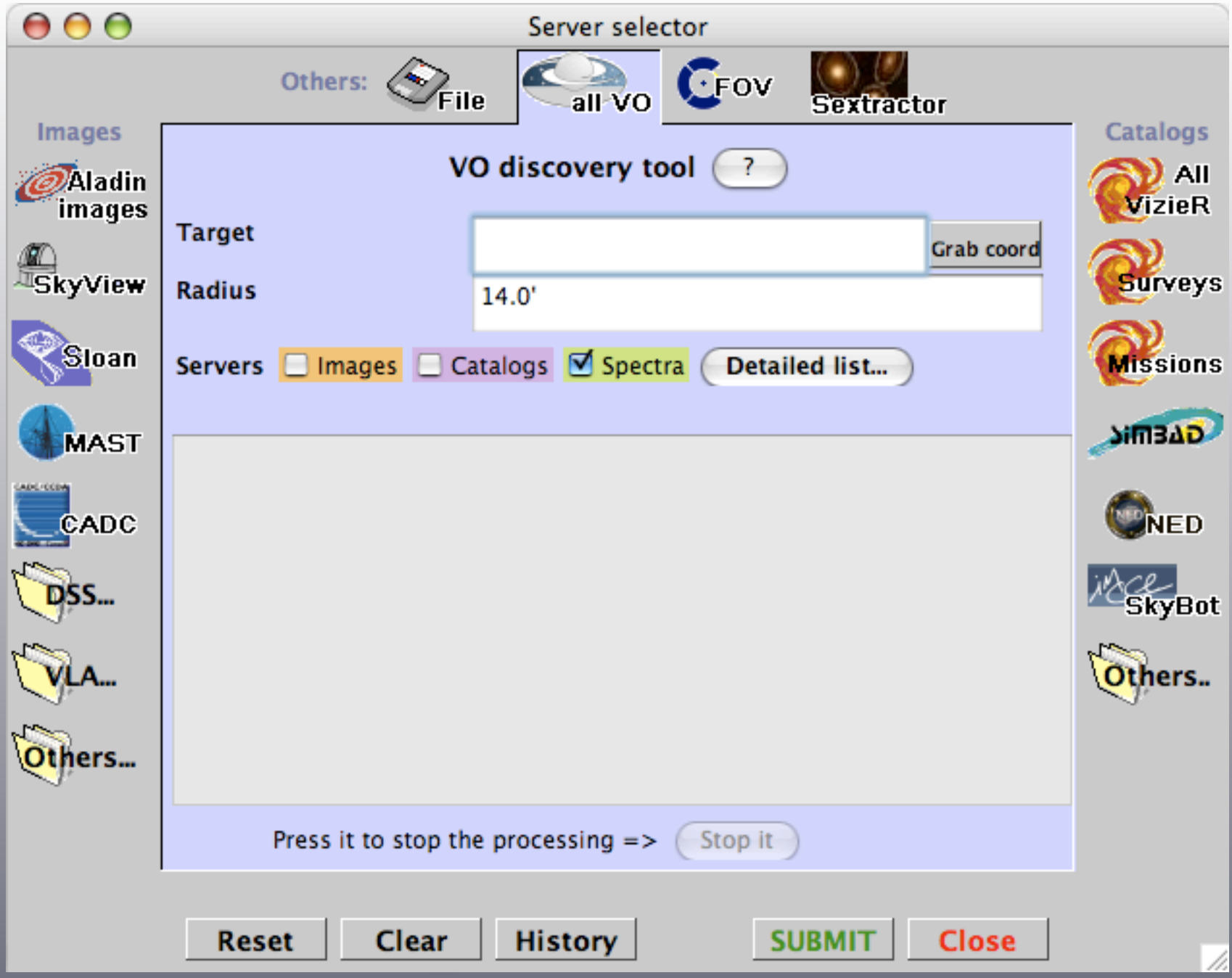
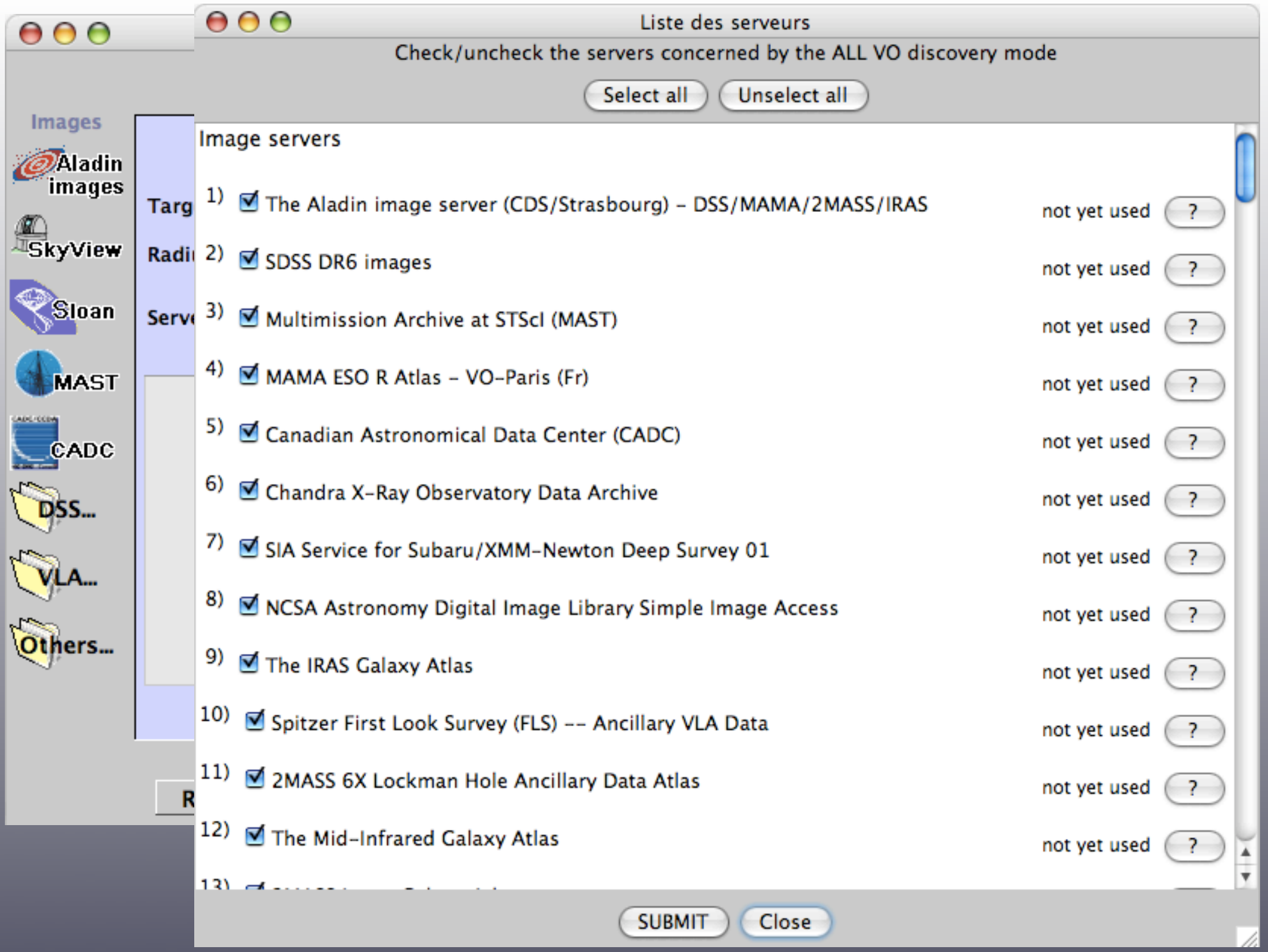
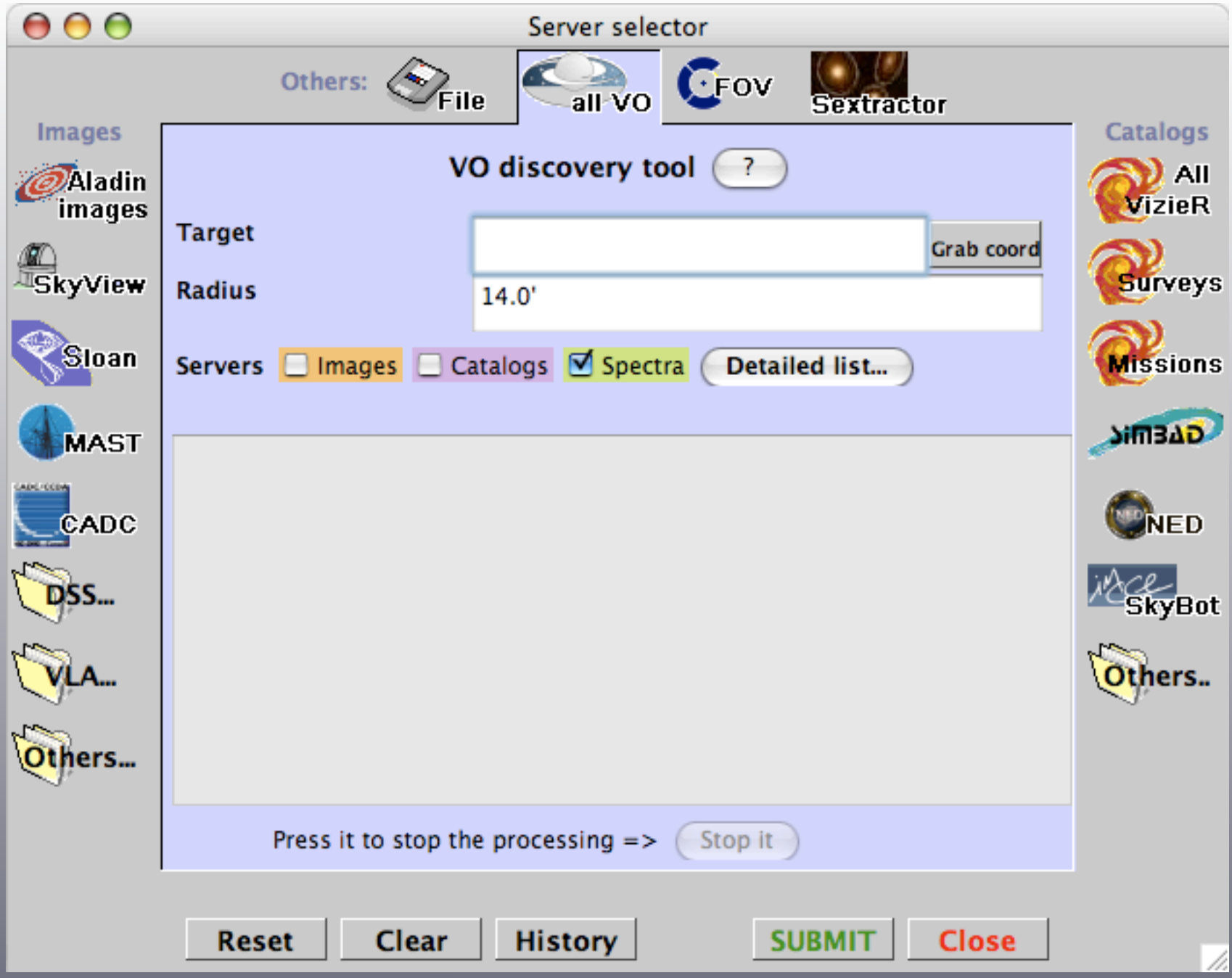
RGB img
POSSII.F.DSS
POSSII.J.DSS
SERC.I.DSS2
2MASS.H.98
1'
4.31' x 4.42'
N
E
8.54' x 17.07'
multiview
- RGB img
Zoom
2x
out
Others:
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
Step
Target
Radius
>>> Step 2: loa
SURVEY
SERC
SERC
POSSI
POSSII
POSSII
2MASS
2MASS
2MASS
2MASS
Reset
TIPS: *** Extend Aladin by creating your own java Aladin plugins (Plugins menu) ***
5 planes, 5 views, 22Mb

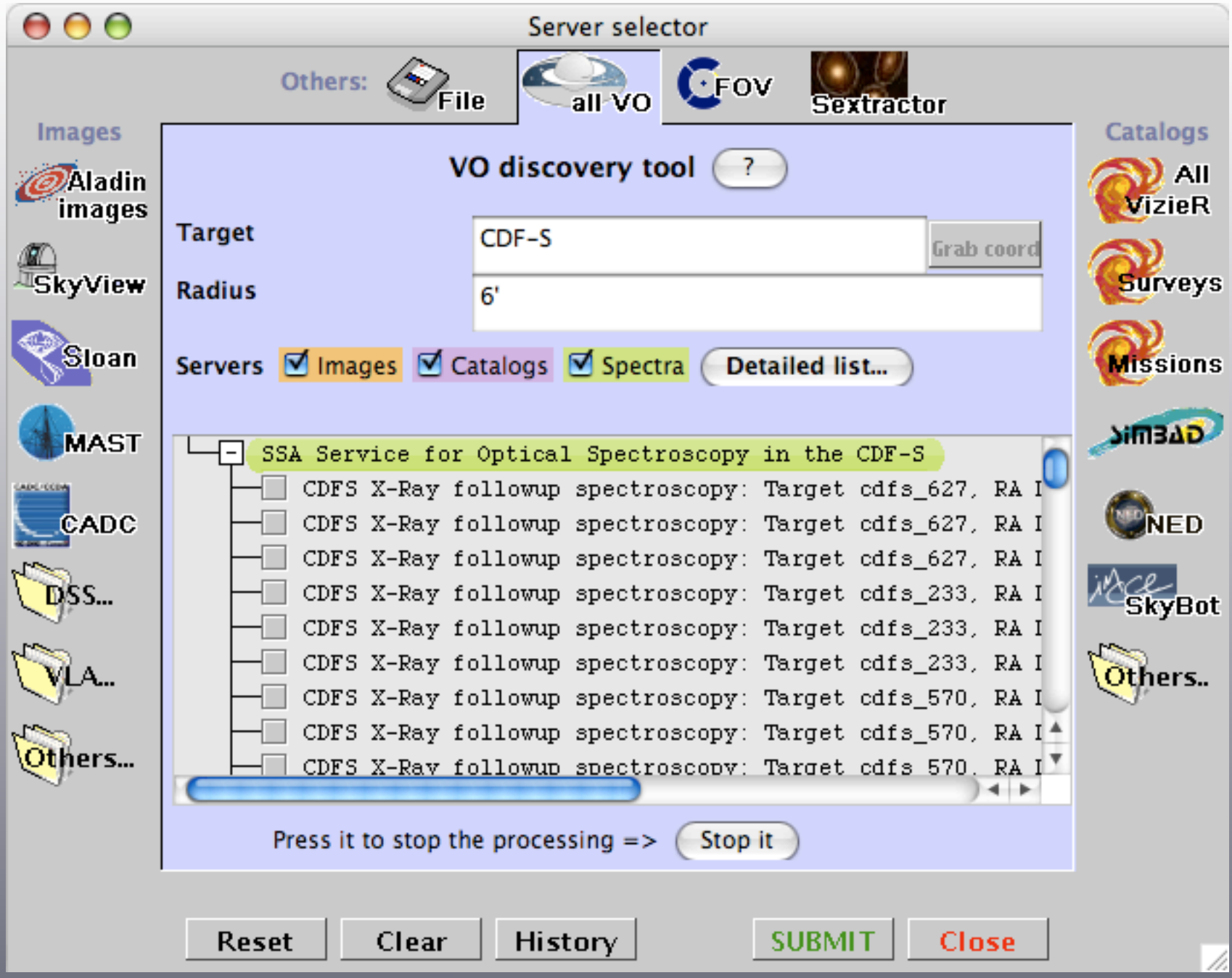

Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Position
ICRS
Pixel
full
RGB img
select
pan
zoom
dist
draw
tag
text
filter
rgb
assoc
rsamp
cont
mglss
pixel
prop
del
Contours
RGB img
POSSII.F.DSS
POSSII.J.DSS
SERC.I.DSS2
2MASS.H.98
1'
4.31' x 4.42'
N
E
8.54' x 17.07'
multiview
- RGB img
Zoom
2x
out
(c)1999-2007 ULP/CNRS - Centre de Donnees astronomiques de Strasbourg
6 planes, 5 views, 23Mb
Others:
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
Step
Target
Radius
>>> Step 2: loa
SURVEY
SERC
SERC
POSSI
POSSII
POSSII
2MASS
2MASS
2MASS
2MASS
Reset

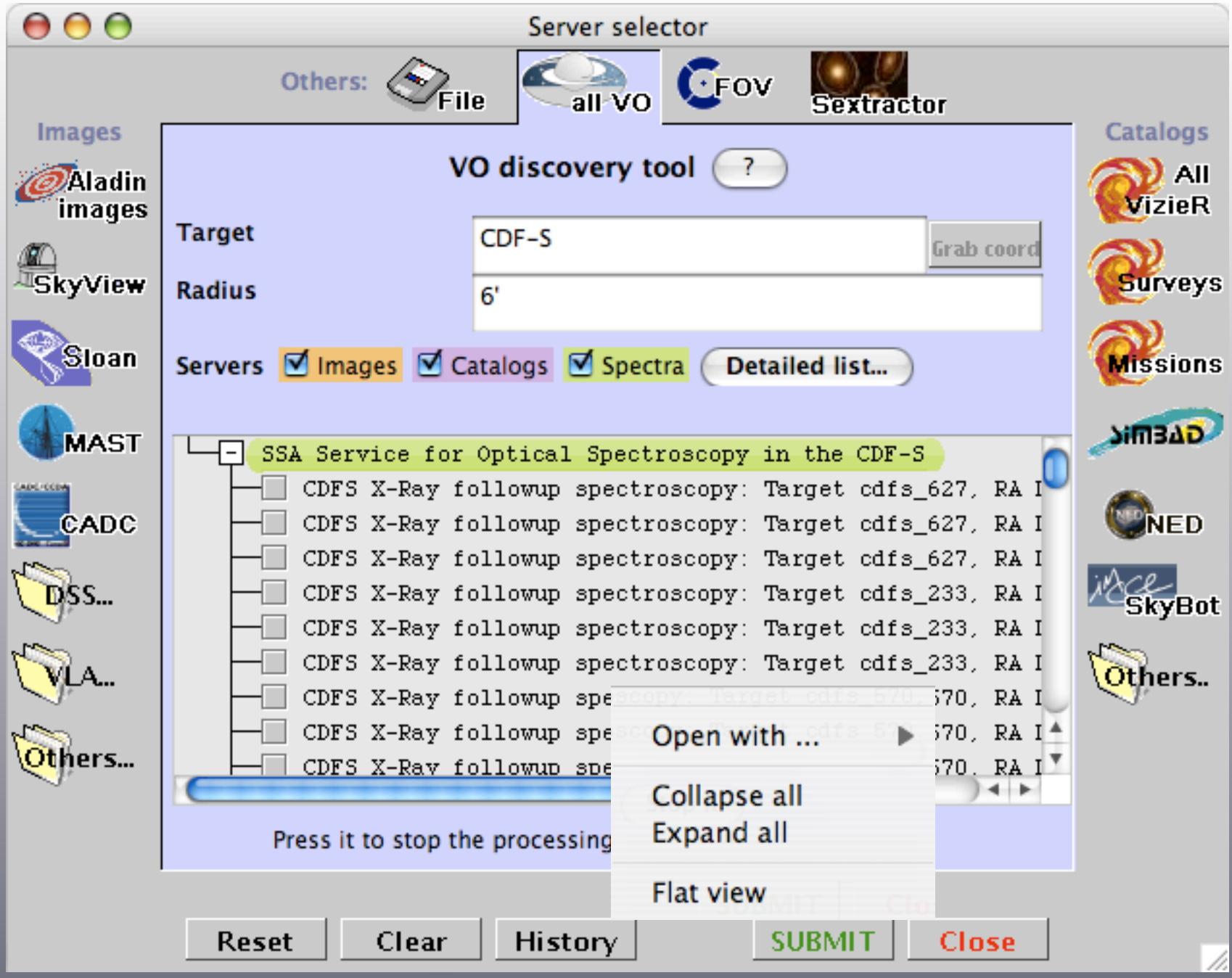

Aladin v4.0
Load...
Save...
Tools...
Plugins...
Print...
Help...
Quit
Position
ICRS
Aladin Script Console...
VOplot (VO-India): 2D plotter for selected objects...
Catalog cross match tool...
Image astrometrical (re)calibration...
Catalog astrometrical (re)calibration...
Catalog column calculator...
ROI extractor: postage stamp image generation tool...
Start Simbad pointer: automatical object discovery
Macro controller...
User preferences...
RGB img
Others:
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
Step
Target
Radius
>>> Step 2: loa
SURVEY
SERC
SERC
POSSI
POSSII
POSSII
2MASS
2MASS
2MASS
2MASS
Reset
tag
text
filter
rgb
assoc
rsamp
cont
mglss
pixel
prop
del
Contours
RGB img
POSSII.F.DSS
POSSII.J.DSS
SERC.I.DSS2
2MASS.H.98
1'
4.31' x 4.42'
N
E
8.54' x 17.07'
multiview
Tools (console, x-match and recalibration tools, preferences,...)
Zoom
2x
out
(c)1999-2007 ULP/CNRS - Centre de Donnees astronomiques de Strasbourg
6 planes, 5 views, 23Mb

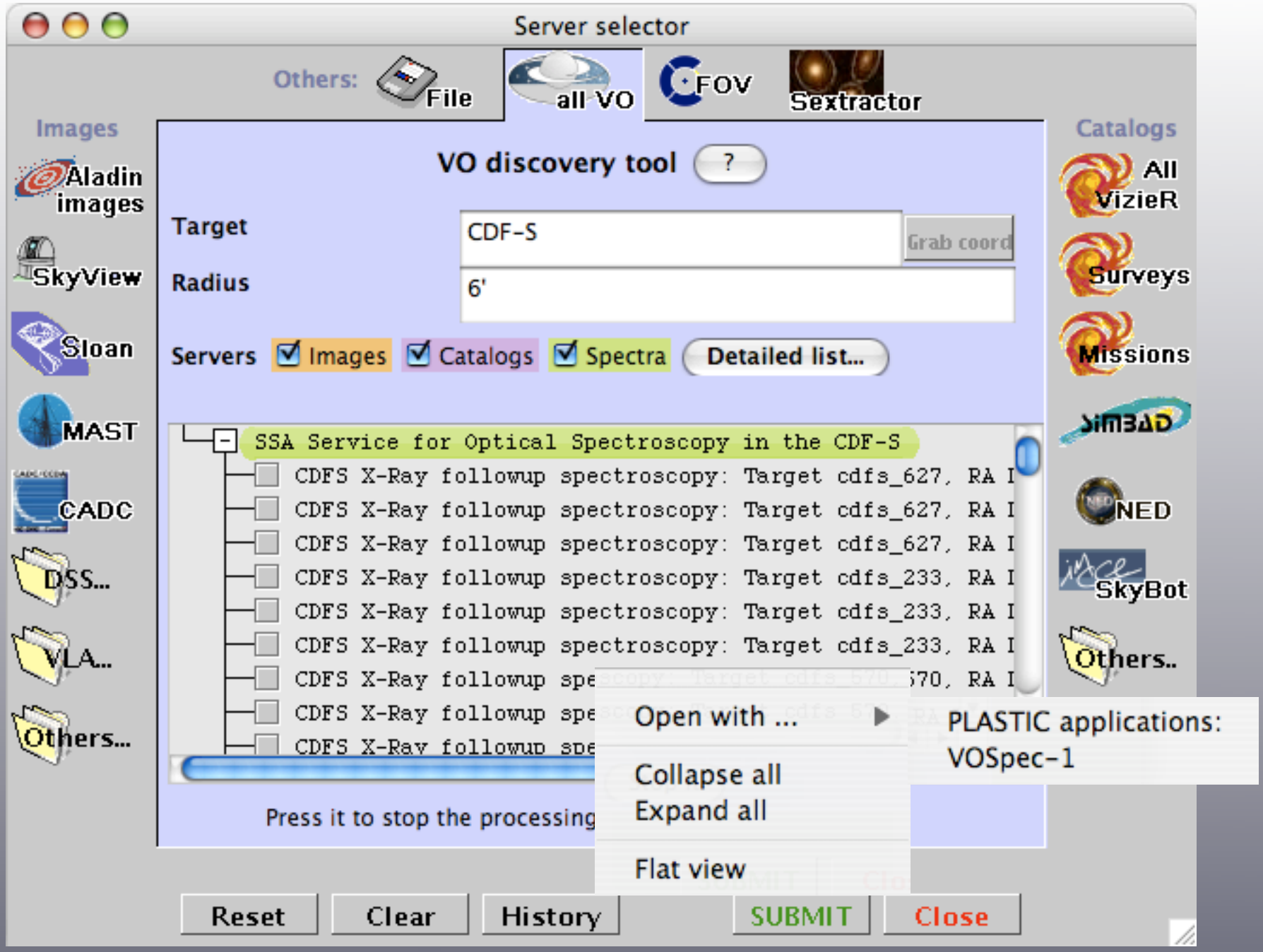

Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
VO discovery tool
?
Target
Grab coord
Radius
14.0'
Servers
Images
Catalogs
Spectra
Detailed list...
Press it to stop the processing =>
Stop it
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
History
SUBMIT
Close


Liste des serveurs
Check/uncheck the servers concerned by the ALL VO discovery mode
Select all
Unselect all
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
Image servers
1) The Aladin image server (CDS/Strasbourg) - DSS/MAMA/2MASS/IRAS not yet used ?
2) SDSS DR6 images not yet used ?
3) Multimission Archive at STScI (MAST) not yet used ?
4) MAMA ESO R Atlas - VO-Paris (Fr) not yet used ?
5) Canadian Astronomical Data Center (CADC) not yet used ?
6) Chandra X-Ray Observatory Data Archive not yet used ?
7) SIA Service for Subaru/XMM-Newton Deep Survey 01 not yet used ?
8) NCSA Astronomy Digital Image Library Simple Image Access not yet used ?
9) The IRAS Galaxy Atlas not yet used ?
10) Spitzer First Look Survey (FLS) -- Ancillary VLA Data not yet used ?
11) 2MASS 6X Lockman Hole Ancillary Data Atlas not yet used ?
12) The Mid-Infrared Galaxy Atlas not yet used ?
SUBMIT
Close


Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
VO discovery tool
?
Target
Grab coord
Radius
14.0'
Servers
Images
Catalogs
Spectra
Detailed list...
Press it to stop the processing =>
Stop it
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
History
SUBMIT
Close


Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
VO discovery tool
?
Target
CDF-S
Grab coord
Radius
6'
Servers
Images
Catalogs
Spectra
Detailed list...
SSA Service for Optical Spectroscopy in the CDF-S
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_570, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_570, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_570, RA I
Press it to stop the processing =>
Stop it
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
History
SUBMIT
Close


Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
VO discovery tool
?
Target
CDF-S
Grab coord
Radius
6'
Servers
Images
Catalogs
Spectra
Detailed list...
SSA Service for Optical Spectroscopy in the CDF-S
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
Open with ...
Collapse all
Expand all
Flat view
Press it to stop the processing
Reset
Clear
History
SUBMIT
Close
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..

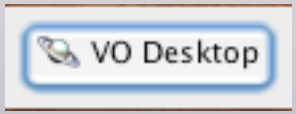

Server selector
Others:
File
all VO
FOV
Sextractor
Images
Aladin images
SkyView
Sloan
MAST
CADC
DSS...
VLA...
Others...
VO discovery tool
?
Target
CDF-S
Grab coord
Radius
6'
Servers
Images
Catalogs
Spectra
Detailed list...
SSA Service for Optical Spectroscopy in the CDF-S
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_627, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spectroscopy: Target cdfs_233, RA I
CDFS X-Ray followup spe
CDFS X-Ray followup spe
CDFS X-Ray followup spe
Press it to stop the processing
Open with ...
Collapse all
Expand all
Flat view
PLASTIC applications:
VOSpec-1
Catalogs
All VizieR
Surveys
Missions
SIMBAD
NED
SkyBot
Others..
Reset
Clear
History
SUBMIT
Close

Astrogrid VO Desktop

http://www.astrogrid.org/

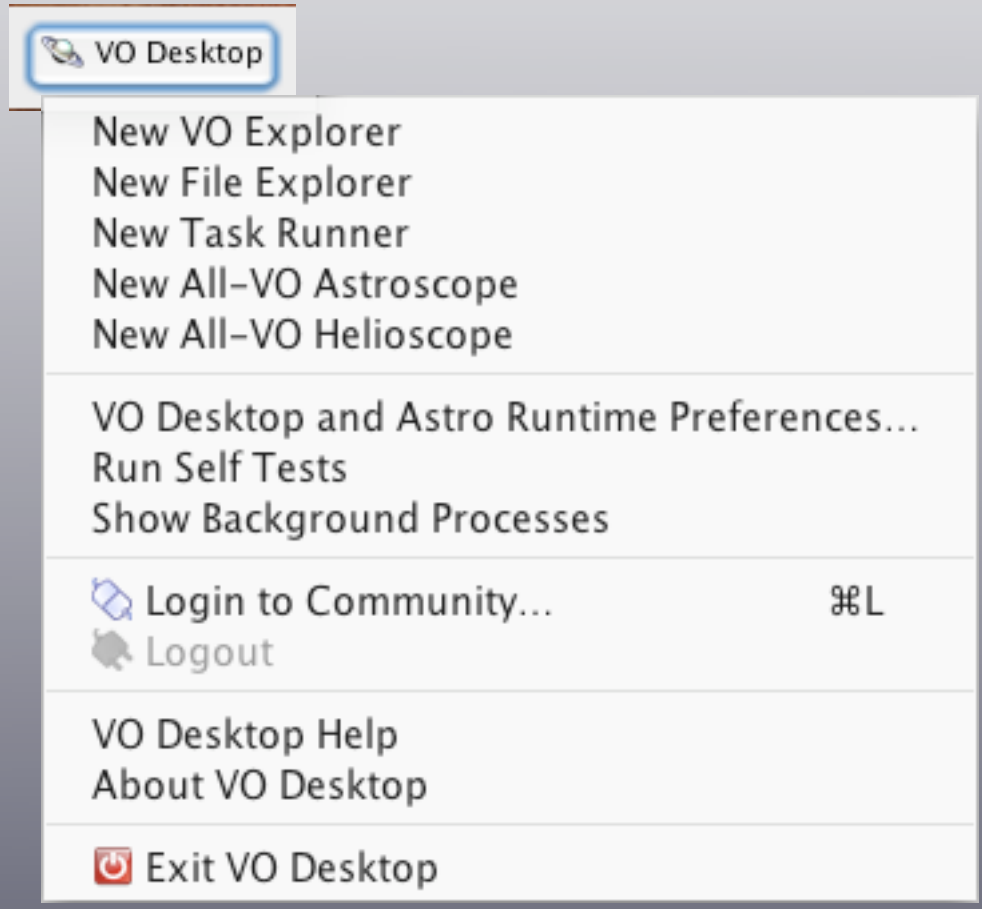
Astrogrid VO Desktop

http://www.astrogrid.org/



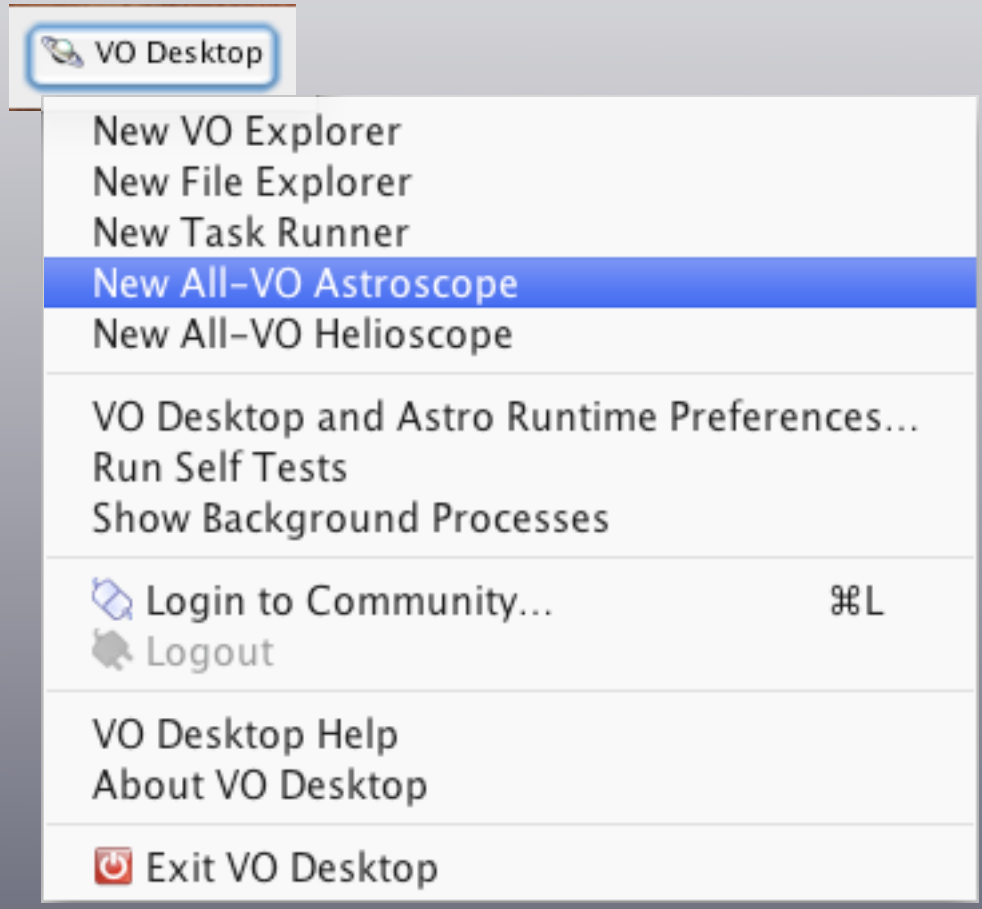
Astrogrid VO Desktop

http://www.astrogrid.org/

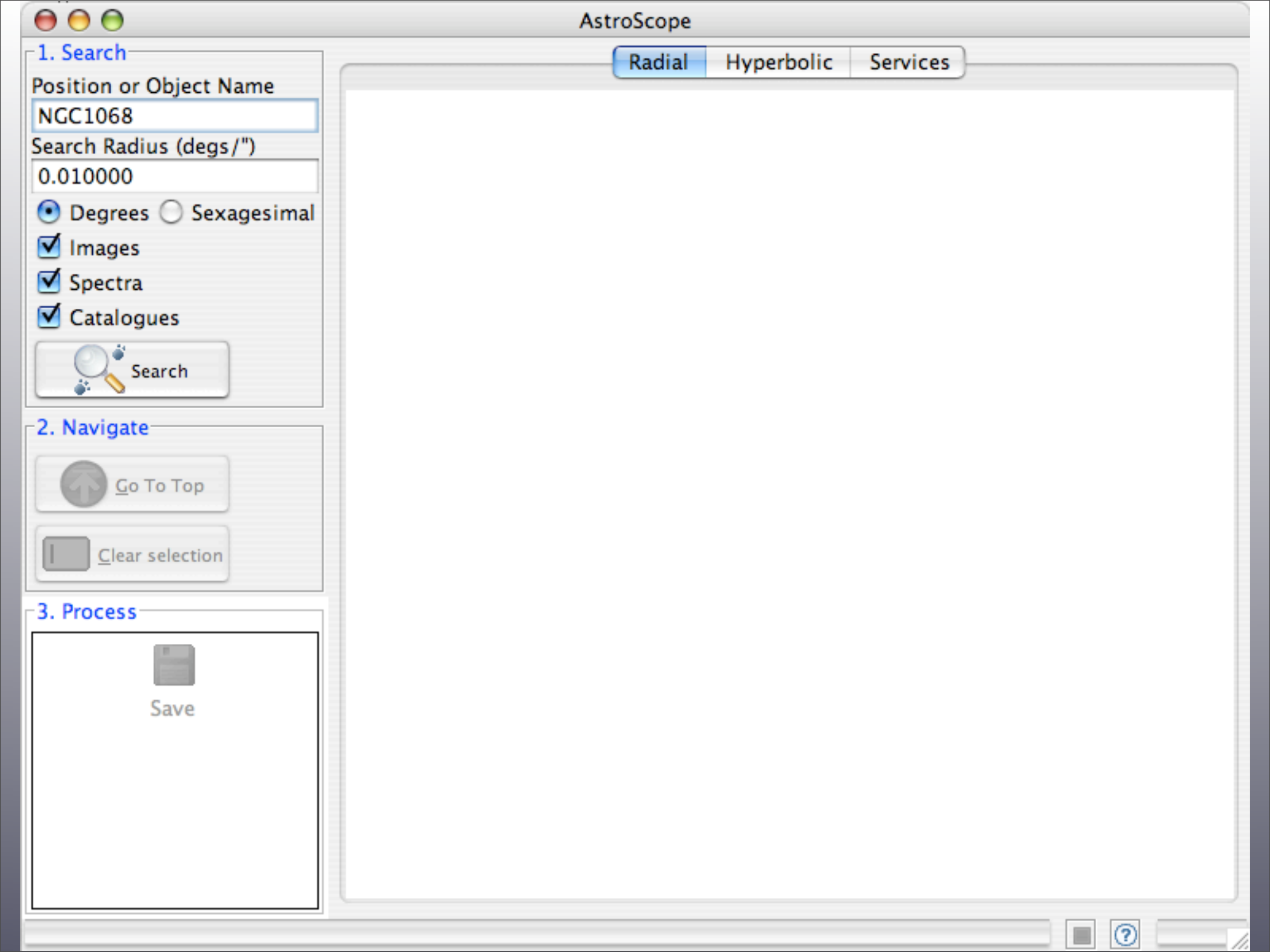


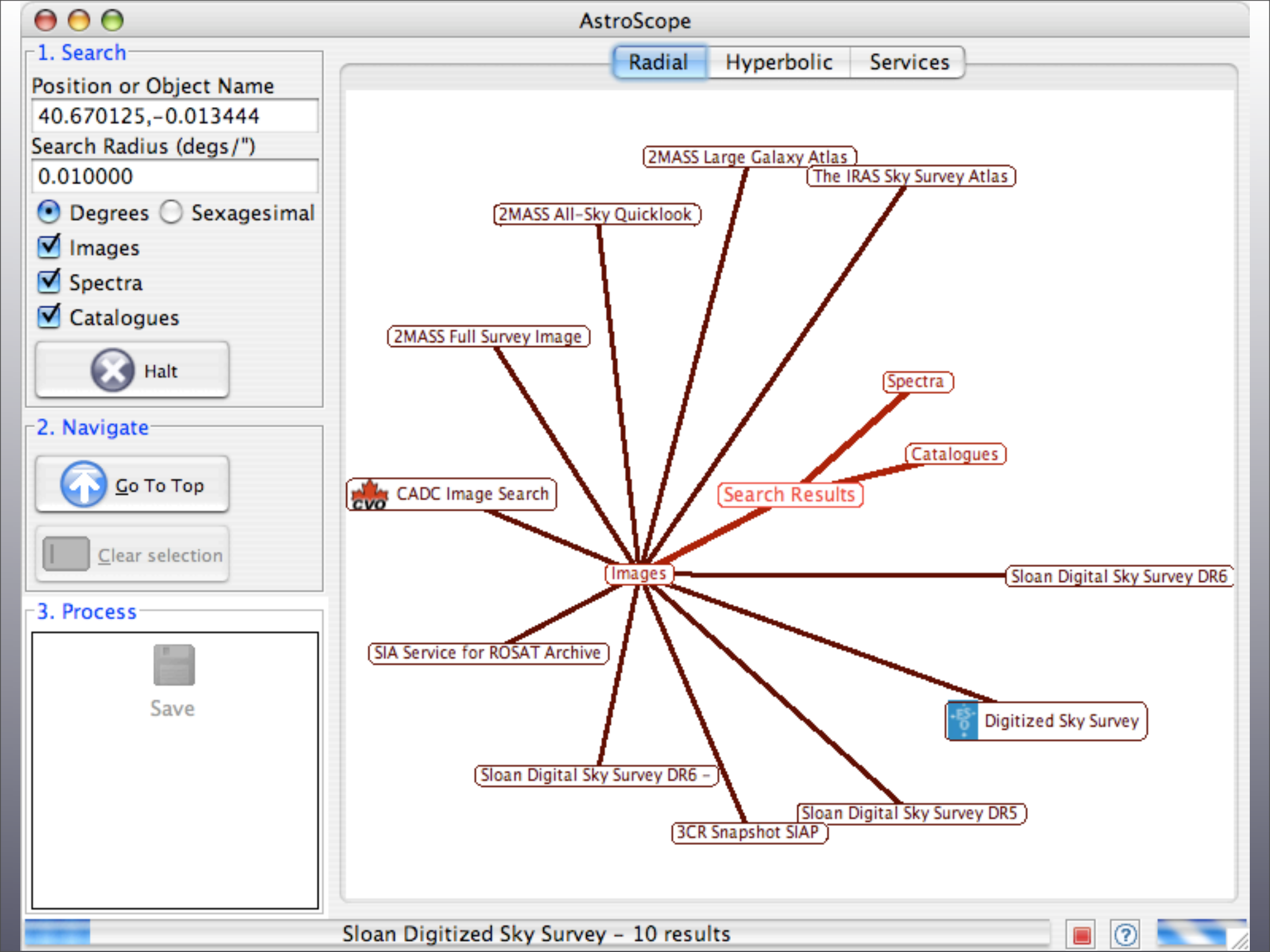
Astrogrid VO Desktop

http://www.astrogrid.org/



In the old days ...


AstroScope
1. Search
Position or Object Name
NGC1068
Search Radius (degs/")
0.010000
Degrees
Sexagesimal
Images
Spectra
Catalogues
Search
2. Navigate
Go To Top
Clear selection
3. Process
Save
Radial
Hyperbolic
Services


AstroScope
1. Search
Position or Object Name
40.670125,-0.013444
Search Radius (degs/")
0.010000
Degrees
Sexagesimal
Images
Spectra
Catalogues
Halt
2. Navigate
Go To Top
Clear selection
3. Process
Save
Radial
Hyperbolic
Services
2MASS Large Galaxy Atlas
The IRAS Sky Survey Atlas
2MASS All-Sky Quicklook
2MASS Full Survey Image
Spectra
Catalogues
CADC Image Search
Search Results
Images
Sloan Digital Sky Survey DR6
SIA Service for ROSAT Archive
Digitized Sky Survey
Sloan Digital Sky Survey DR6 -
Sloan Digital Sky Survey DR5
3CR Snapshot SIAP
Sloan Digitized Sky Survey - 10 results

AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

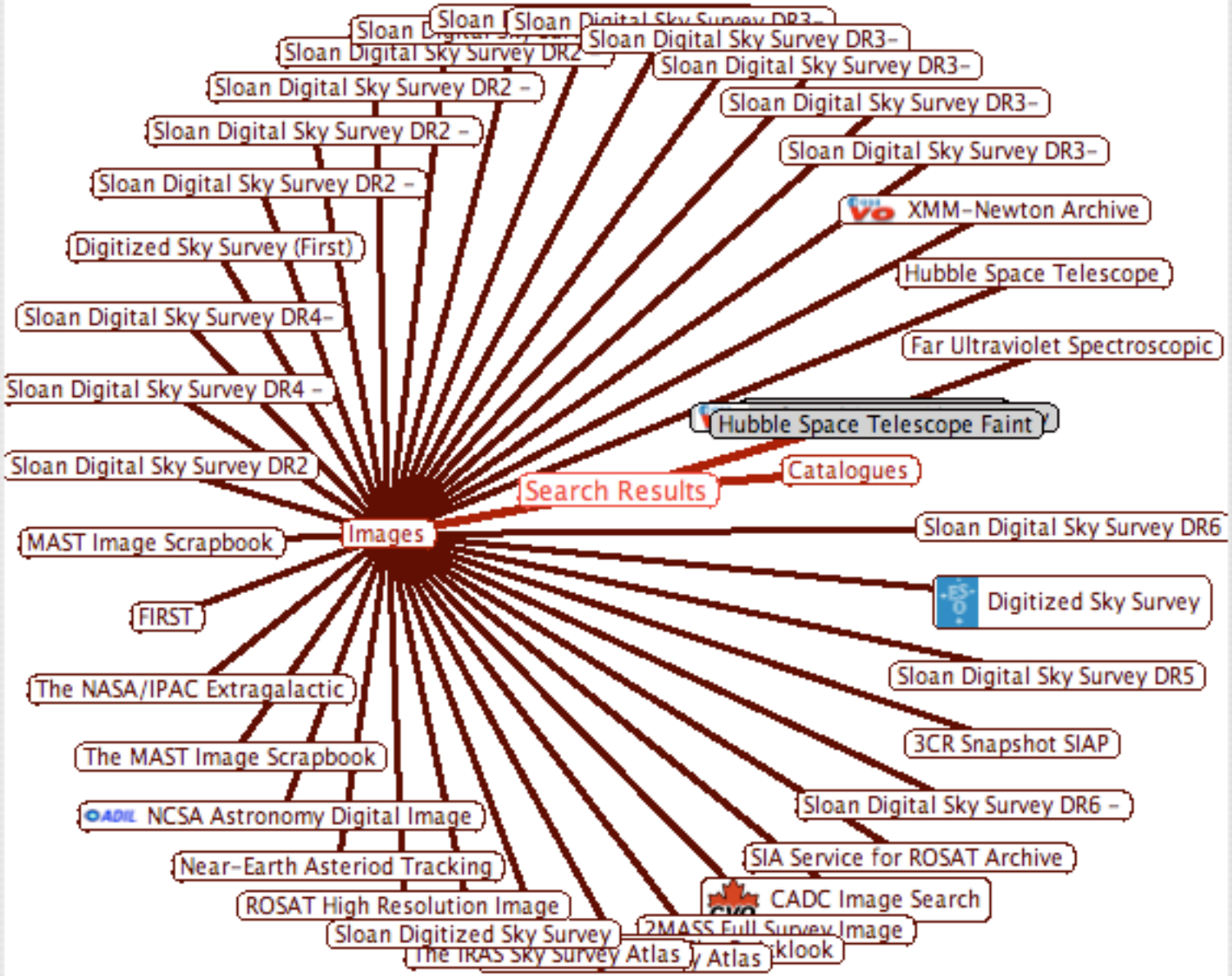
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



Cep B/OB3 Star-Forming Region Chandra X-Ray Point Source Catalog - 0 results

AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

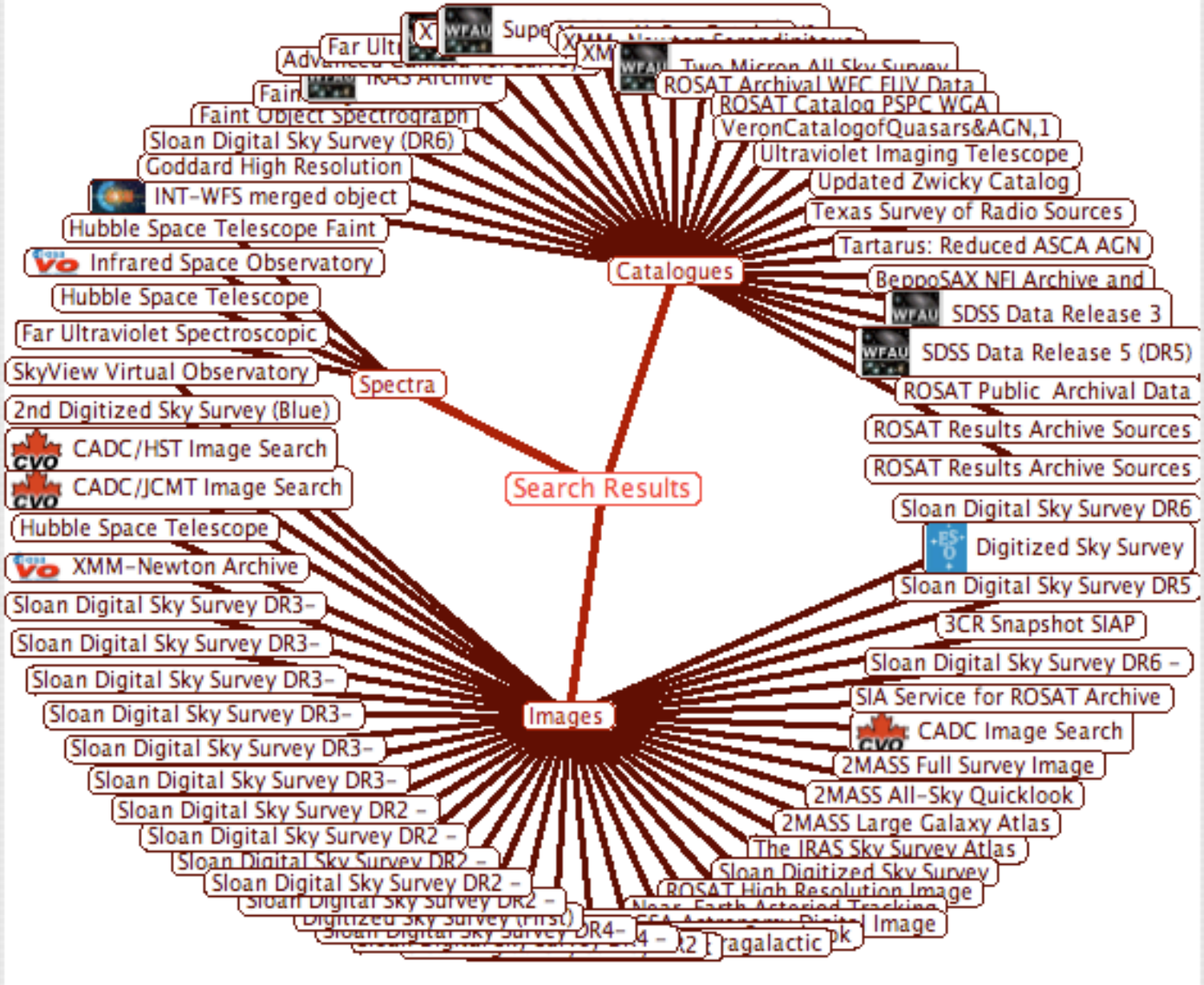
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



ROSAT Radio-Loud Quasars Catalog - 0 results

AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

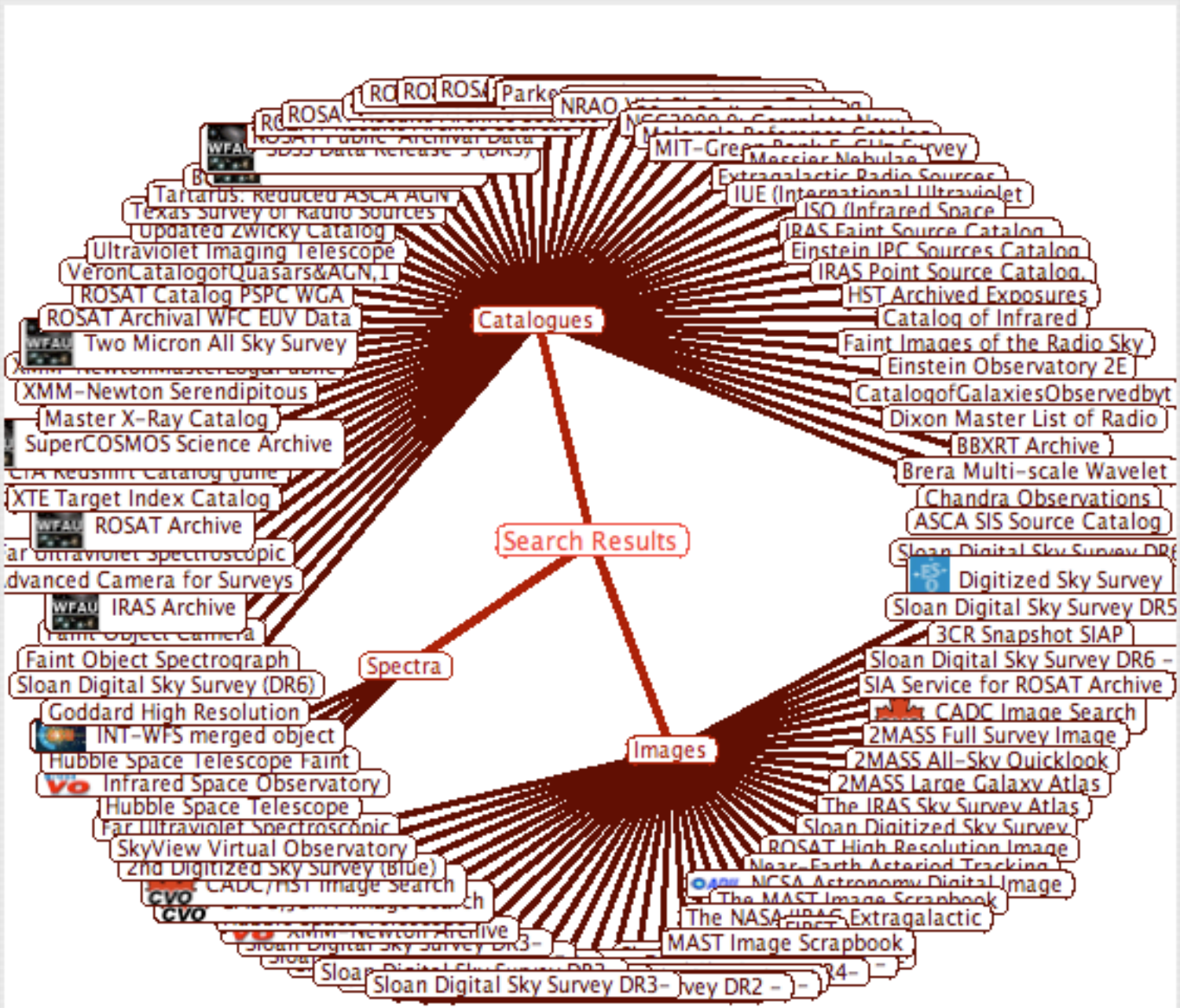
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



ASCA GIS Source Catalog (AMSS-I + AMSS-II) - 1 results

AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

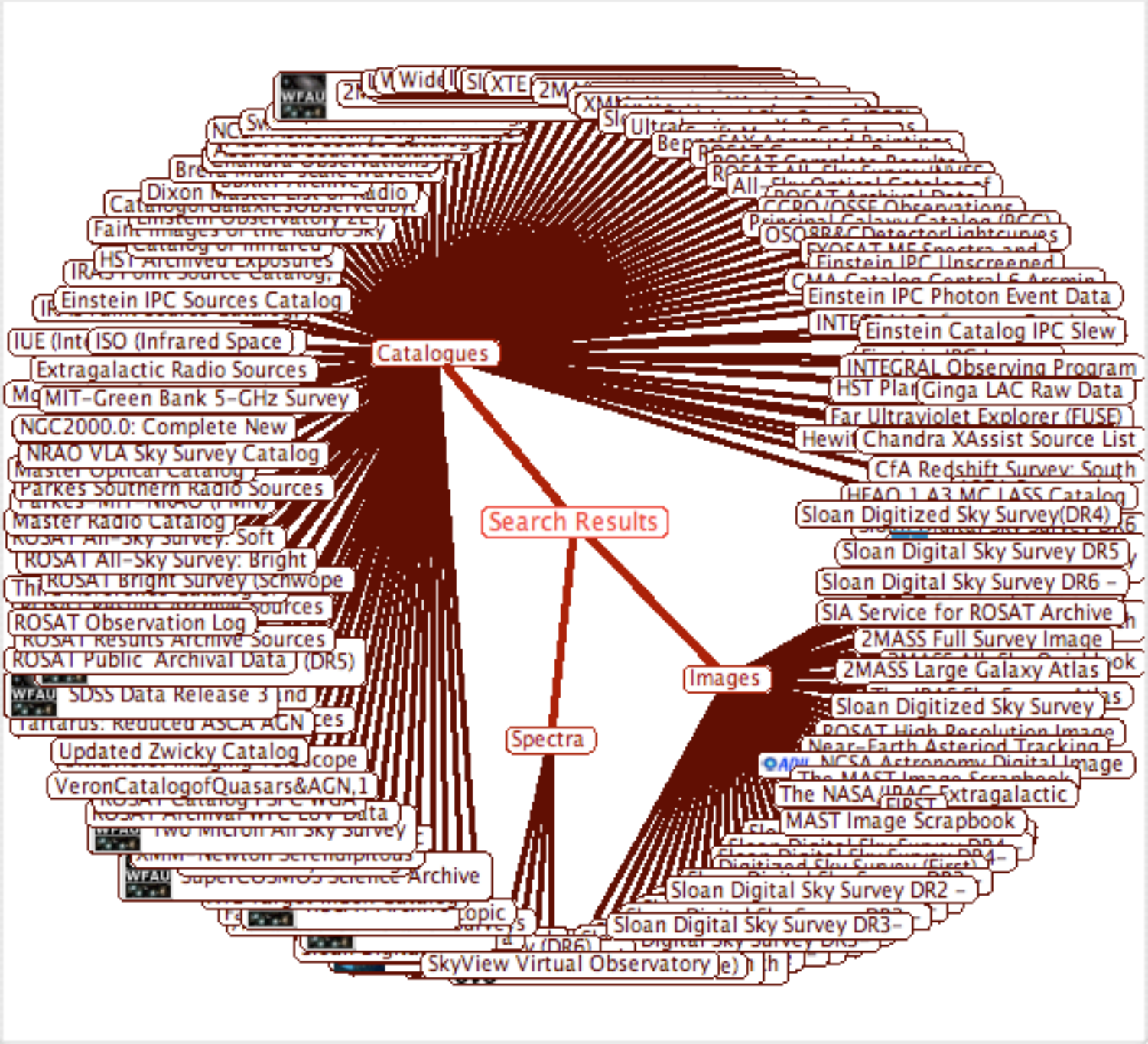
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

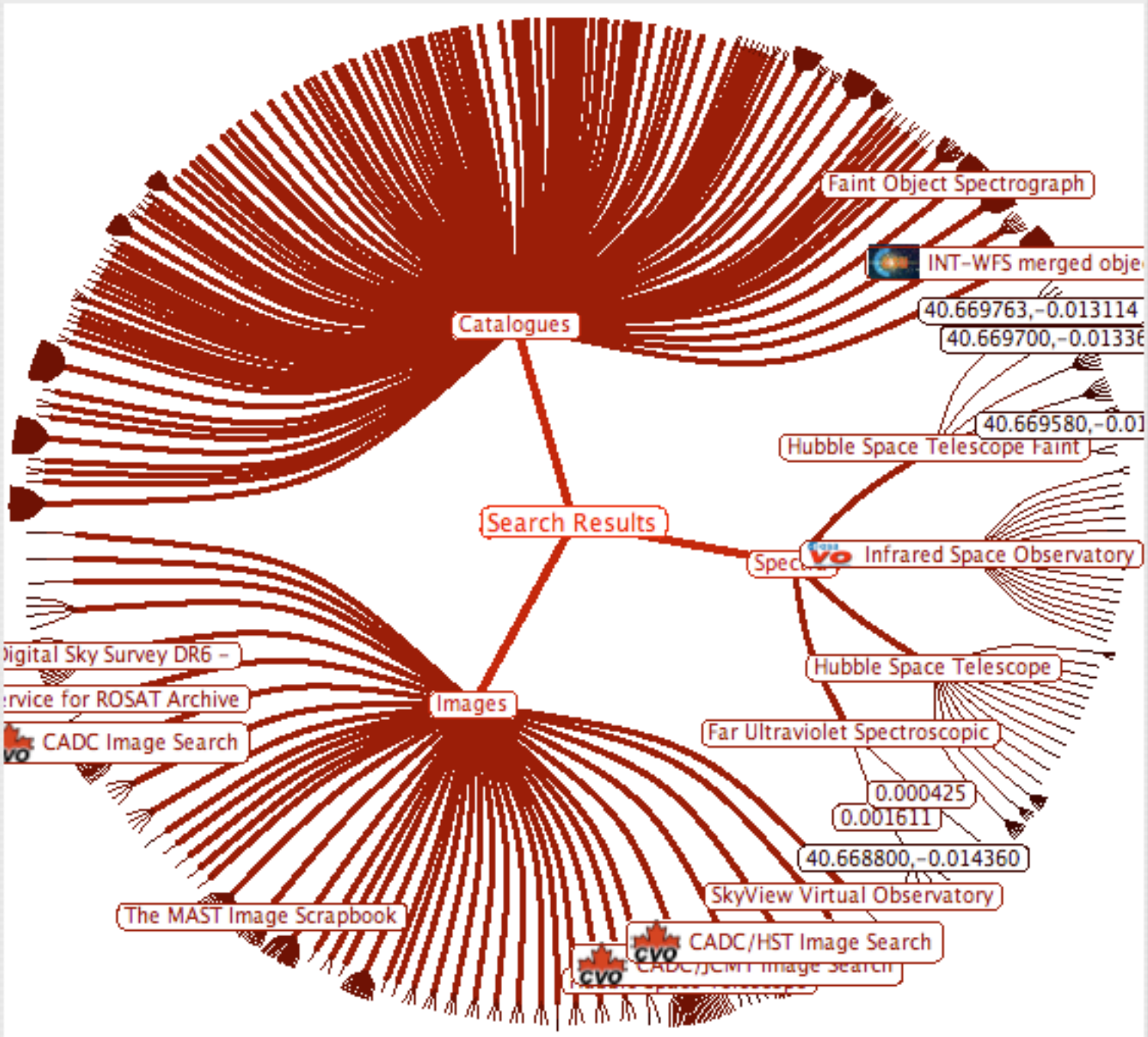
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services

Service	Results	Message
ky Survey DR6	1	
Survey	16	
ky Survey DR5	1	
t SIAP	8	
ky Survey DR6 - Images	15	
r ROSAT Archive	42	
Science Data Archive Interoperability System	0	
nage Access service	0	
Survey 2 - Red	ERROR	FileNotFoundException http://www-
Survey 2	ERROR	FileNotFoundException http://www-
Survey 1	ERROR	FileNotFoundException http://www-
Survey 2 - Infrared	ERROR	FileNotFoundException http://www-
Survey 2 - Blue	ERROR	FileNotFoundException http://www-
ation Image Service	0	
tion Survey with HST	0	
talog Image Service	0	
(Image Service	0	
mage Search	0	
Telescope in Space Data Atlas	0	
age Search	0	
e Space Experiment Data Atlas	0	
Search	63	
/ide-area InfraRed Extragalactic Survey	0	
rvey Image Service	24	
ook Survey (FLS) -- NOAO ELAIS N1 -- R	0	
ckman Hole Ancillary Data Atlas	0	
ook Survey (FLS) -- NOAO Extragalactic -- R	0	
y Quicklook Image Service	24	
Galaxy Atlas	3	
ook Survey (FLS) -- Ancillary VLA Data	0	

AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

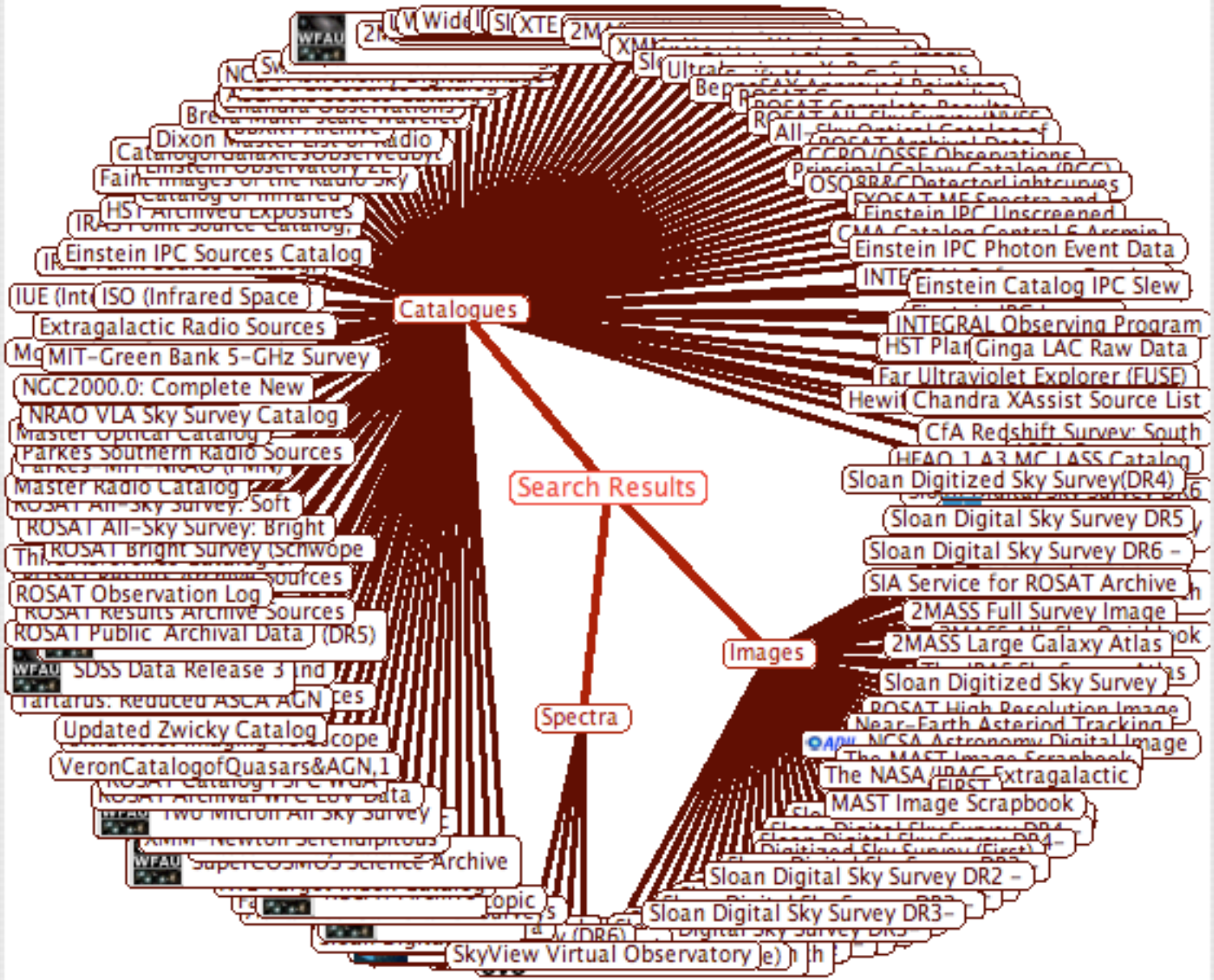
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

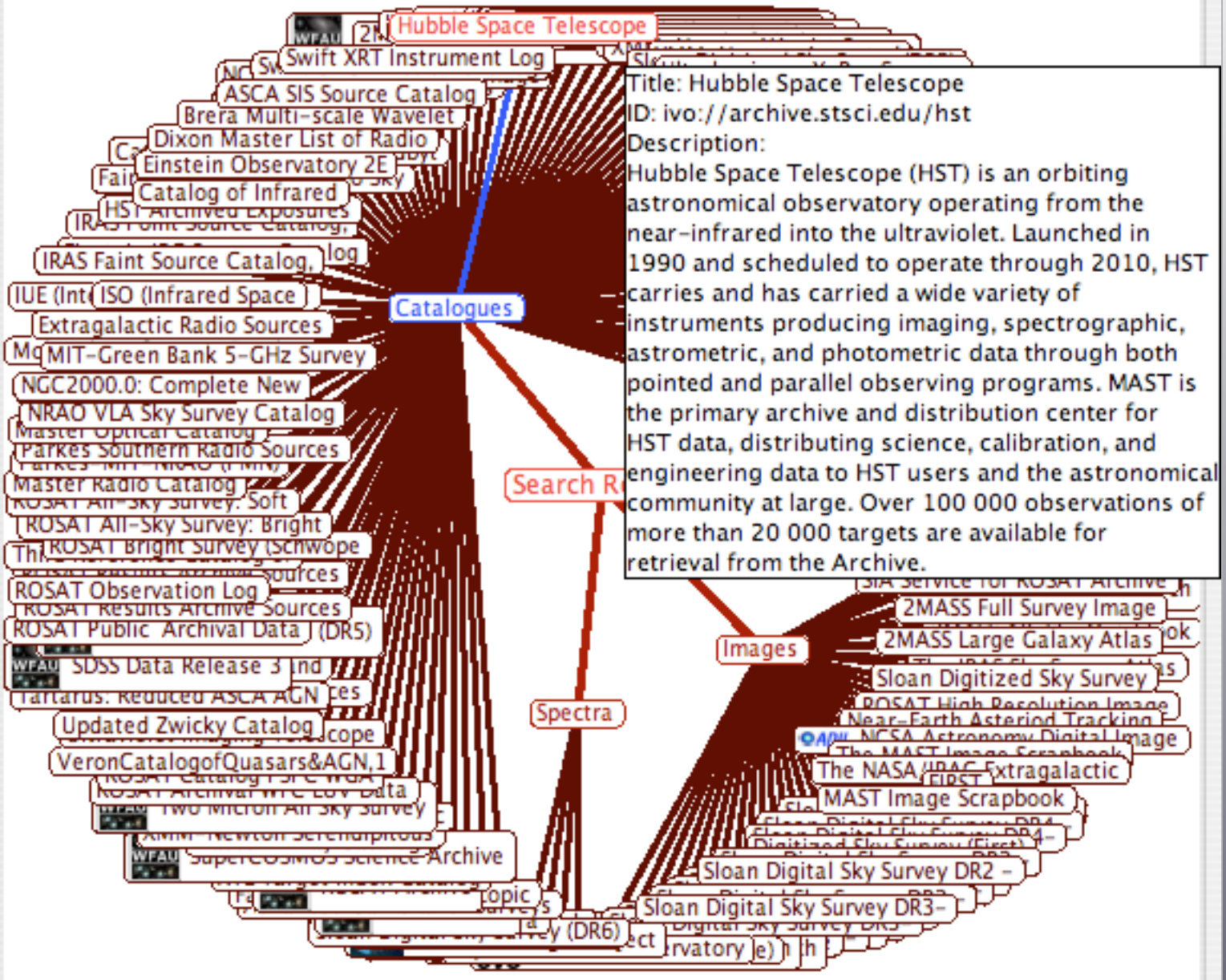
Go To Top

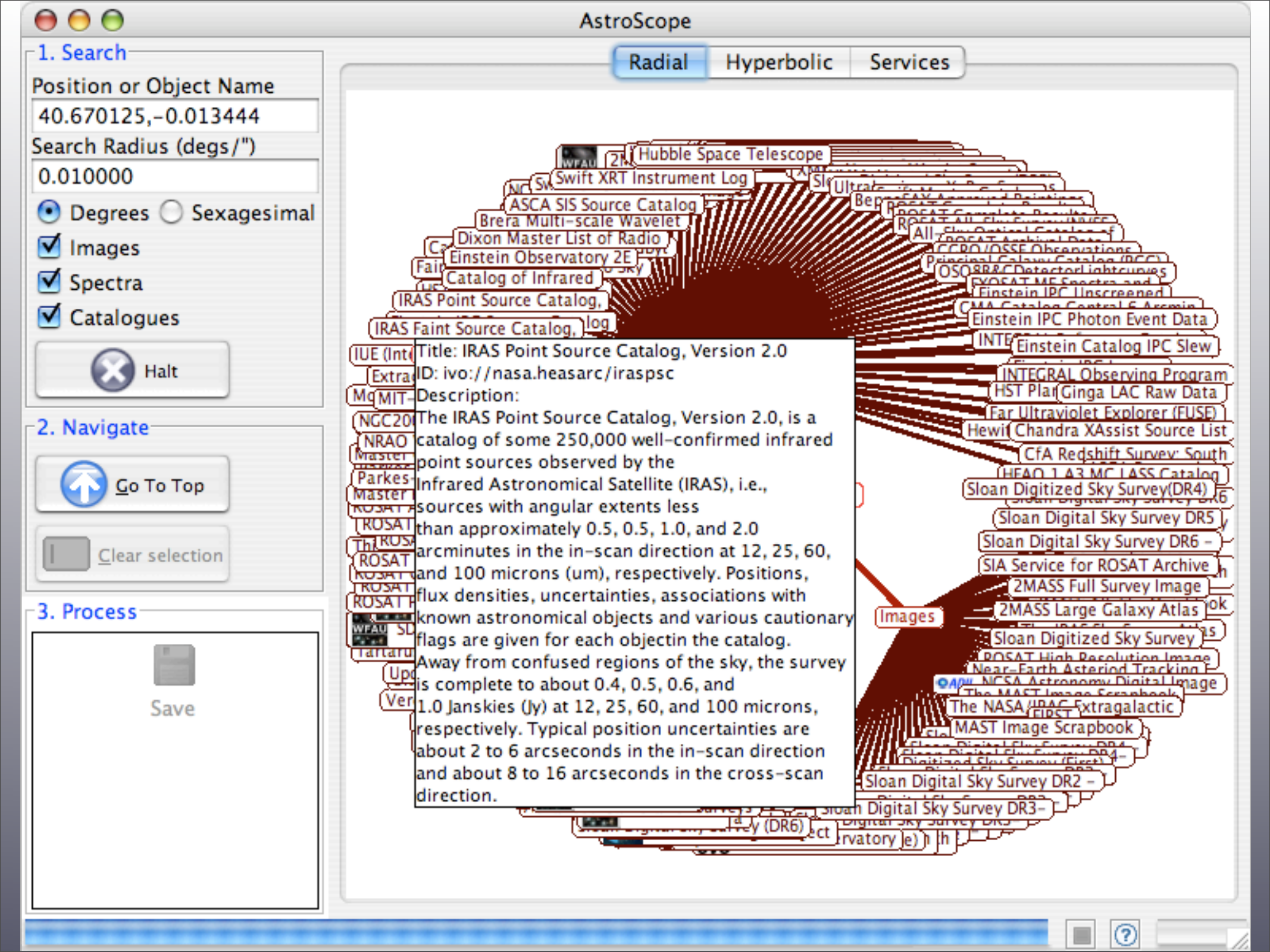
Clear selection

3. Process

Save

Radial Hyperbolic Services




AstroScope
1. Search
Position or Object Name
40.670125,-0.013444
Search Radius (degs/")
0.010000
Degrees
Sexagesimal
Images
Spectra
Catalogues
Halt
2. Navigate
Go To Top
Clear selection
3. Process
Save
Radial
Hyperbolic
Services
Hubble Space Telescope
Swift XRT Instrument Log
ASCA SIS Source Catalog
Brera Multi-scale Wavelet
Dixon Master List of Radio
Einstein Observatory 2E
Catalog of Infrared
IRAS Point Source Catalog,
IRAS Faint Source Catalog,
Einstein IPC Photon Event Data
Einstein Catalog IPC Slew
INTEGRAL Observing Program
Ginga LAC Raw Data
Far Ultraviolet Explorer (FUSE)
Chandra XAssist Source List
CfA Redshift Survey: South
Sloan Digitized Sky Survey(DR4)
Sloan Digital Sky Survey DR5
Sloan Digital Sky Survey DR6 -
SIA Service for ROSAT Archive
2MASS Full Survey Image
2MASS Large Galaxy Atlas
Sloan Digitized Sky Survey
MAST Image Scrapbook
Sloan Digital Sky Survey DR2 -
Sloan Digital Sky Survey DR3-
Images
Title: IRAS Point Source Catalog, Version 2.0
ID: ivo://nasa.heasarc/iraspsc
Description:
The IRAS Point Source Catalog, Version 2.0, is a catalog of some 250,000 well-confirmed infrared point sources observed by the Infrared Astronomical Satellite (IRAS), i.e., sources with angular extents less than approximately 0.5, 0.5, 1.0, and 2.0 arcminutes in the in-scan direction at 12, 25, 60, and 100 microns (um), respectively. Positions, flux densities, uncertainties, associations with known astronomical objects and various cautionary flags are given for each objectin the catalog. Away from confused regions of the sky, the survey is complete to about 0.4, 0.5, 0.6, and 1.0 Janskies (Jy) at 12, 25, 60, and 100 microns, respectively. Typical position uncertainties are about 2 to 6 arcseconds in the in-scan direction and about 8 to 16 arcseconds in the cross-scan direction.

AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

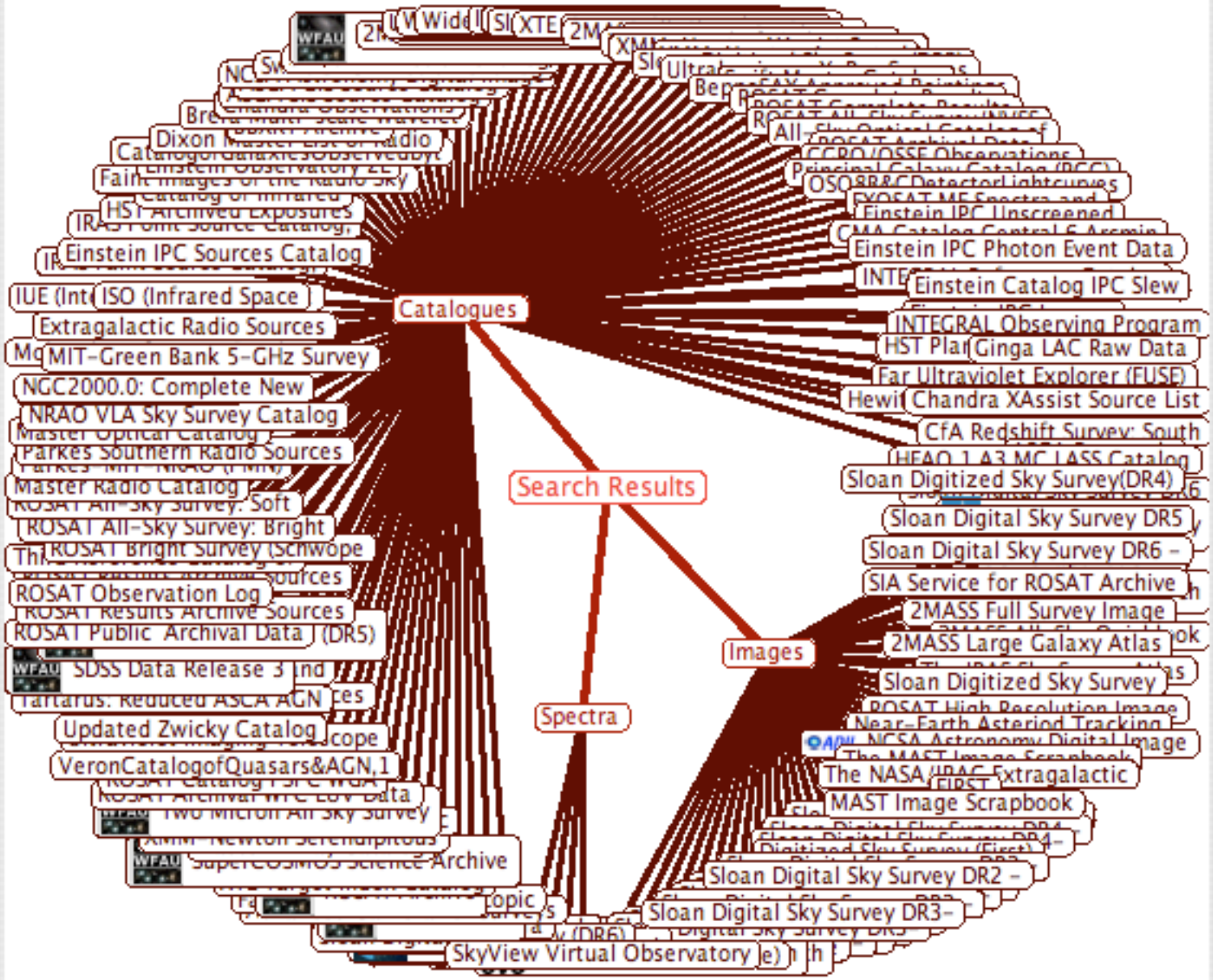
Go To Top

Clear selection

3. Process

Save

Radial Hyperbolic Services



AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

Go To Top

Clear selection

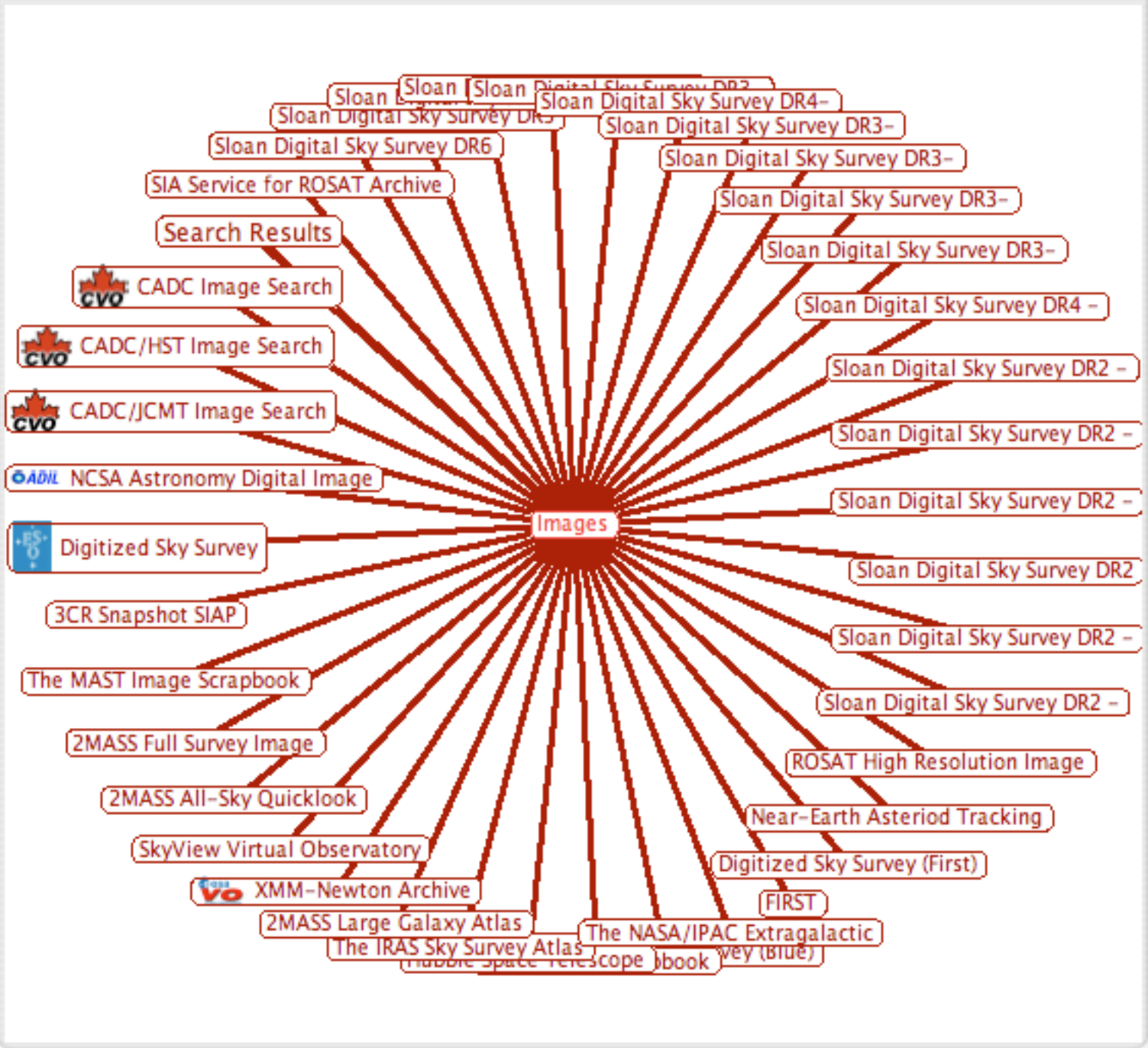
3. Process

View tables in Aladin

View images in Aladin

Save

Radial Hyperbolic Services



AstroScope

1. Search

Position or Object Name

40.670125,-0.013444

Search Radius (degs/")

0.010000

Degrees Sexagesimal

Images

Spectra

Catalogues

Halt

2. Navigate

Go To Top

Clear selection

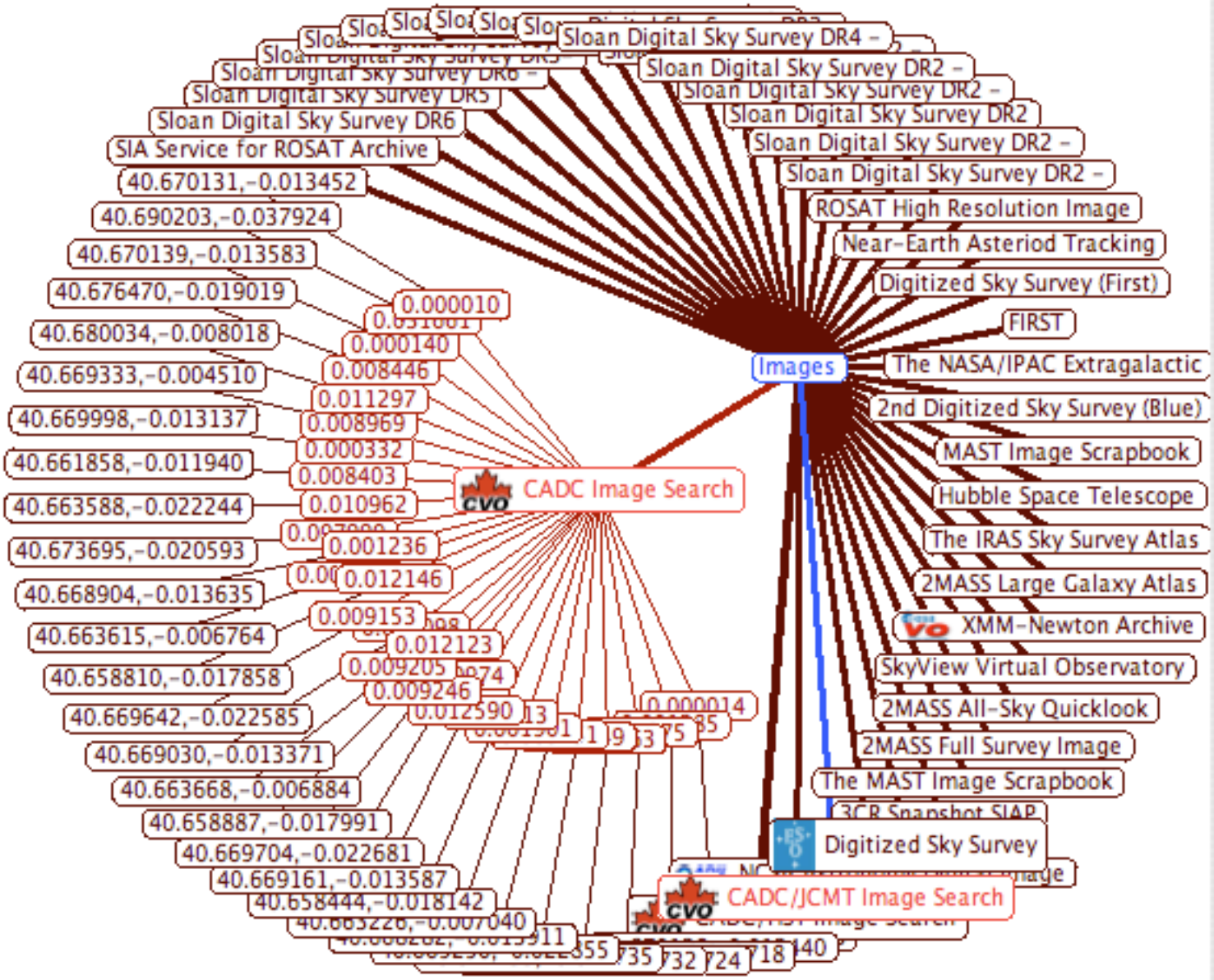
3. Process

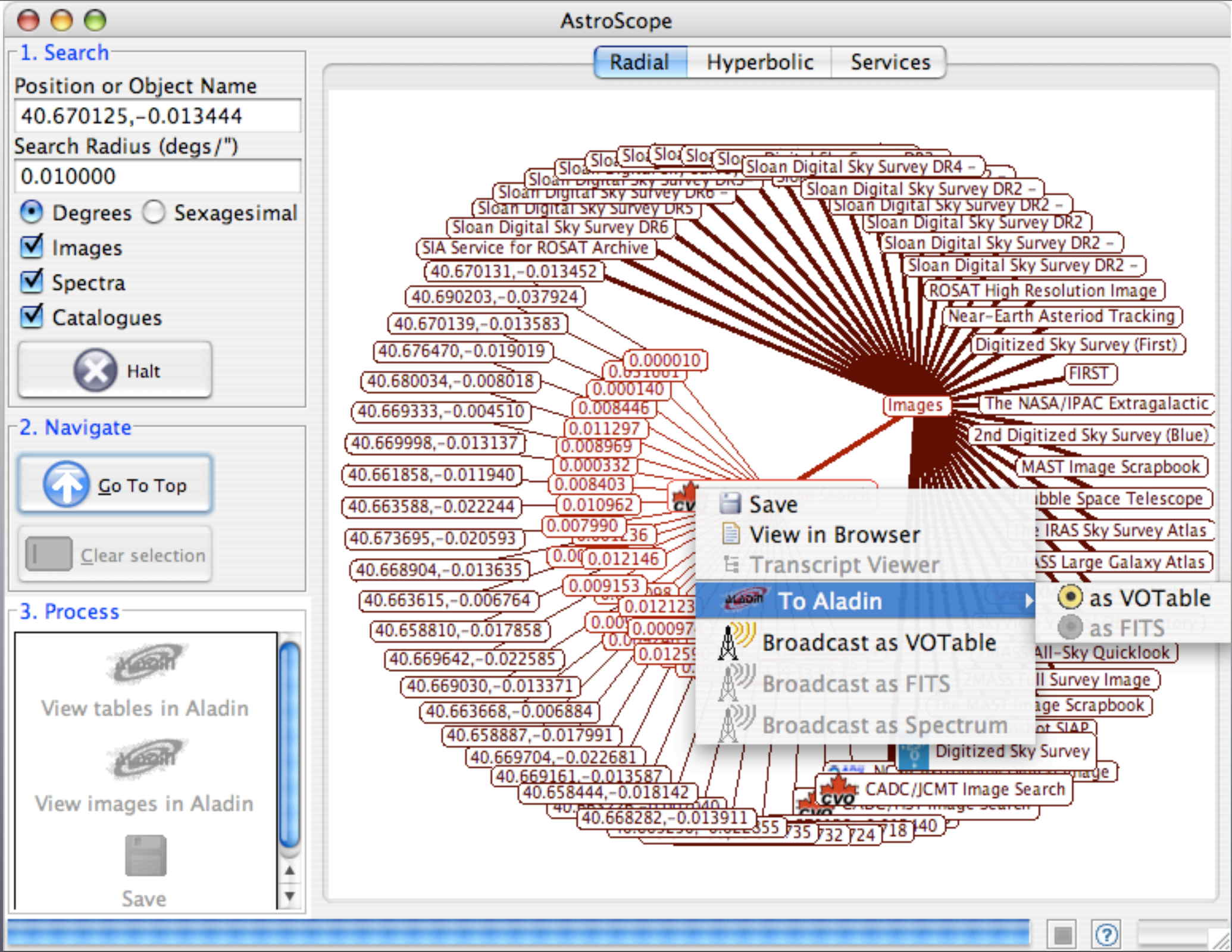
View tables in Aladin

View images in Aladin

Save

Radial Hyperbolic Services

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Position or Object Name
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Search Radius (degs/")
0.010000
Degrees
Sexagesimal
Images
Spectra
Catalogues
Halt
2. Navigate
Go To Top
Clear selection
3. Process
View tables in Aladin
View images in Aladin
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Radial
Hyperbolic
Services
Sloan Digital Sky Survey DR4 -
Sloan Digital Sky Survey DR2 -
Sloan Digital Sky Survey DR2 -
Sloan Digital Sky Survey DR2
Sloan Digital Sky Survey DR2 -
Sloan Digital Sky Survey DR2 -
ROSAT High Resolution Image
Near-Earth Asteriod Tracking
Digitized Sky Survey (First)
FIRST
The NASA/IPAC Extragalactic
2nd Digitized Sky Survey (Blue)
MAST Image Scrapbook
Sloan Digital Sky Survey DR6
SIA Service for ROSAT Archive
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Transcript Viewer
To Aladin
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as FITS
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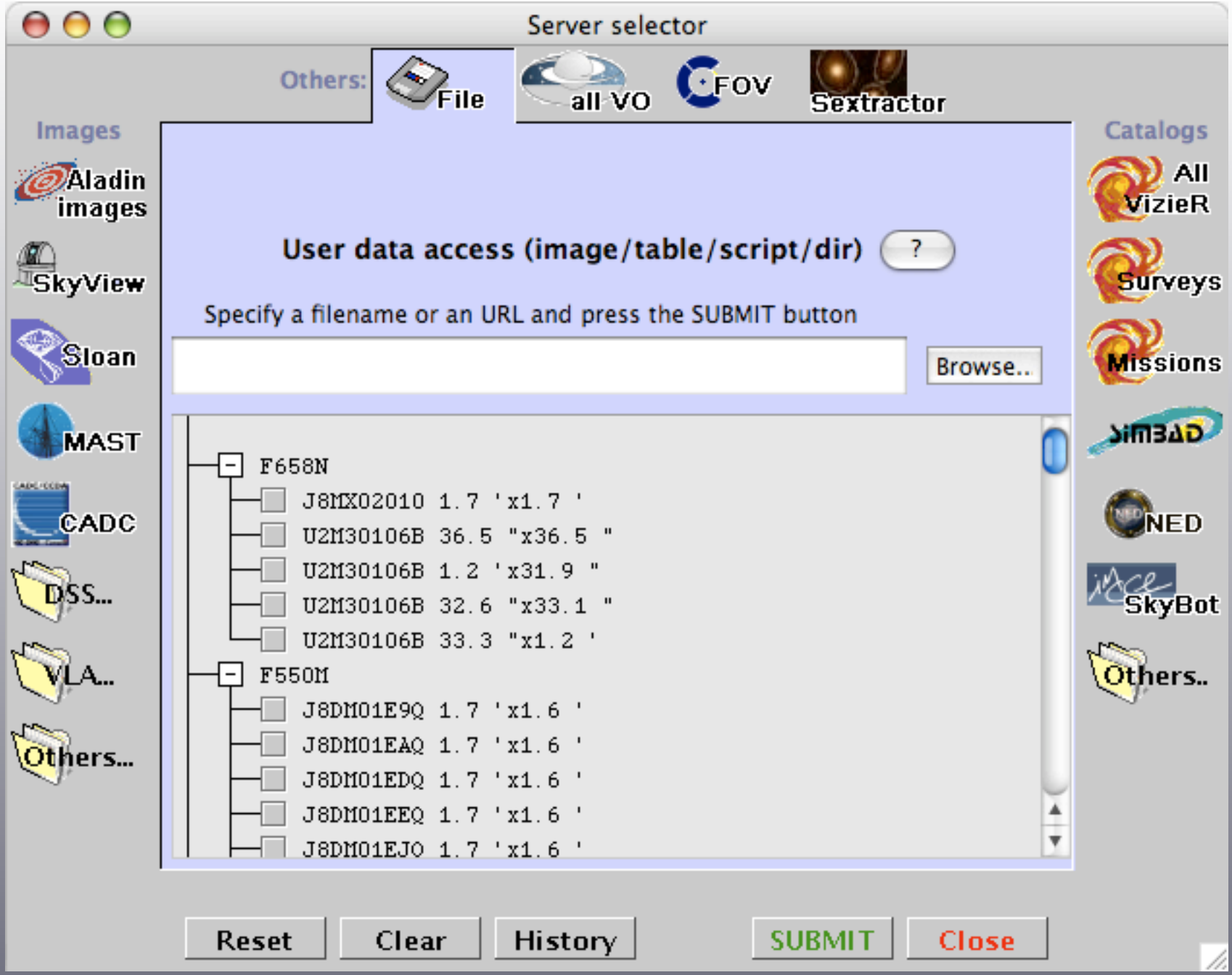
CADC/JCMT Image Search


Server selector
Others:
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all VO
FOV
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MAST
CADC
DSS...
VLA...
Others...
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All VizieR
Surveys
Missions
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NED
SkyBot
Others..
User data access (image/table/script/dir)
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Specify a filename or an URL and press the SUBMIT button
Browse...
F658N
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U2M30106B 36.5 "x36.5 "
U2M30106B 1.2 'x31.9 "
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F550M
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J8DM01EAQ 1.7 'x1.6 '
J8DM01EDQ 1.7 'x1.6 '
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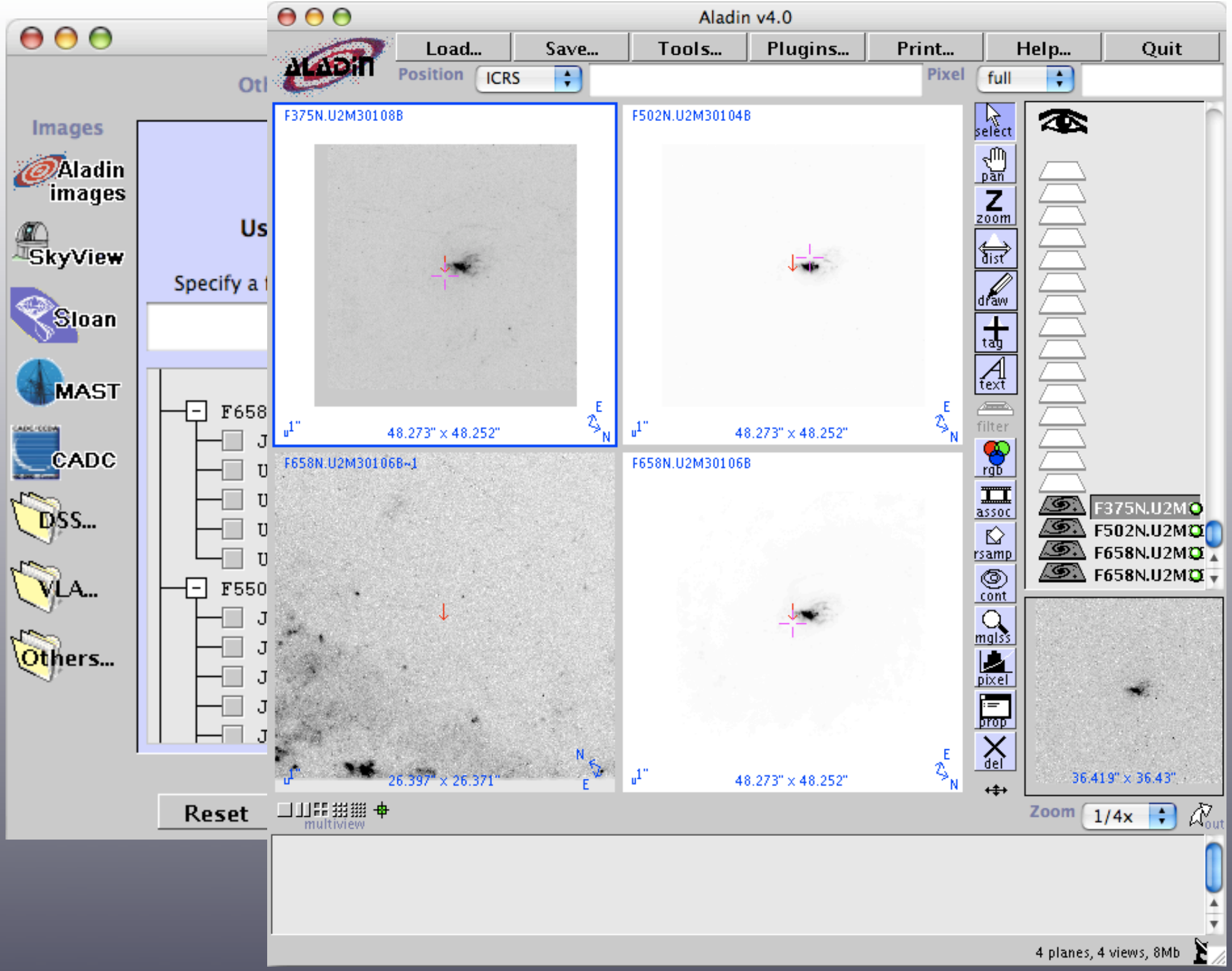
Clear
History
SUBMIT
Close


Aladin v4.0
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Print...
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Quit
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ICRS
Pixel
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F502N.U2M30104B
F658N.U2M30106B~1
F658N.U2M30106B
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26.397" x 26.371"
36.419" x 36.43"
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filter
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prop
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F502N.U2M
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SkyView
Sloan
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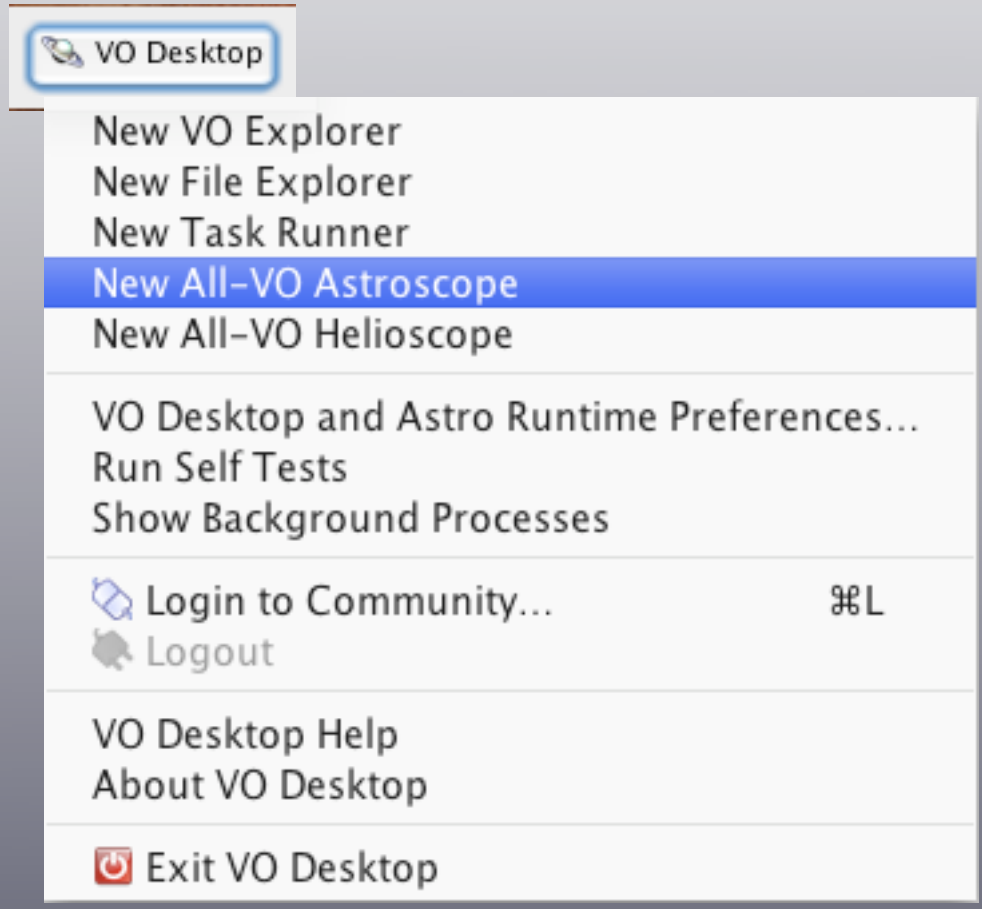
Others...
Specify a
Reset

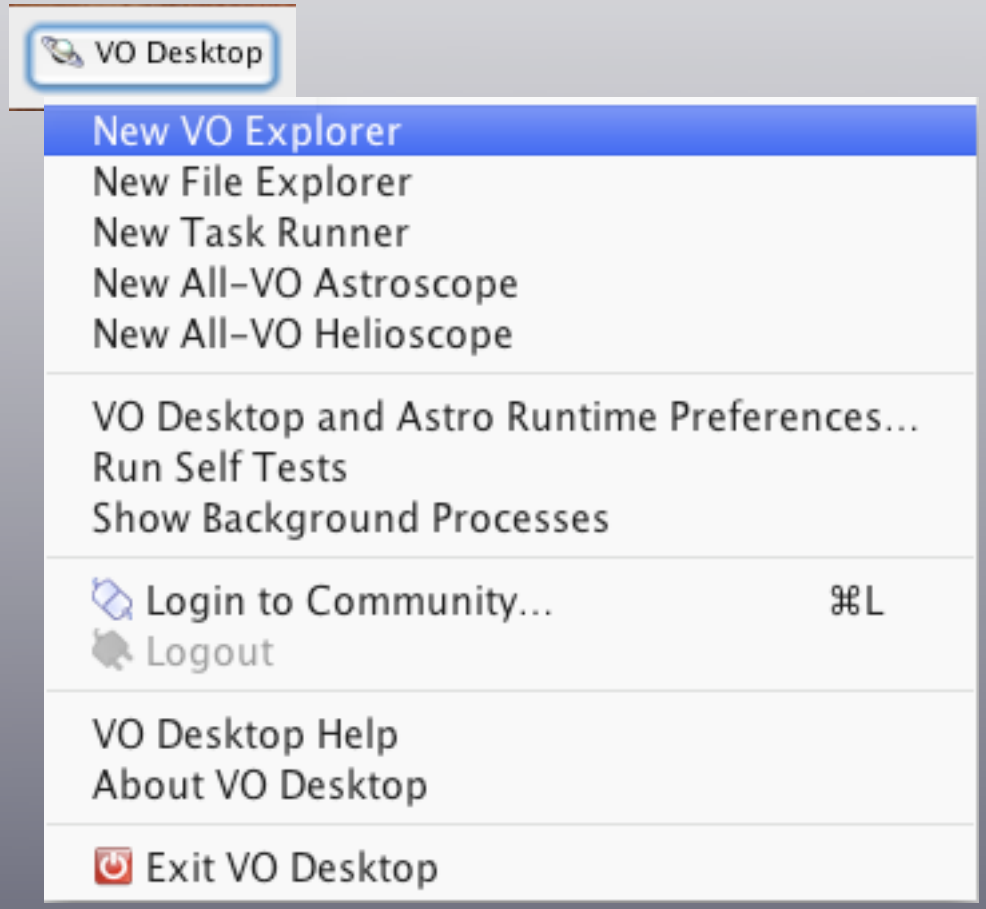
Astrogrid VO Desktop

http://www.astrogrid.org/



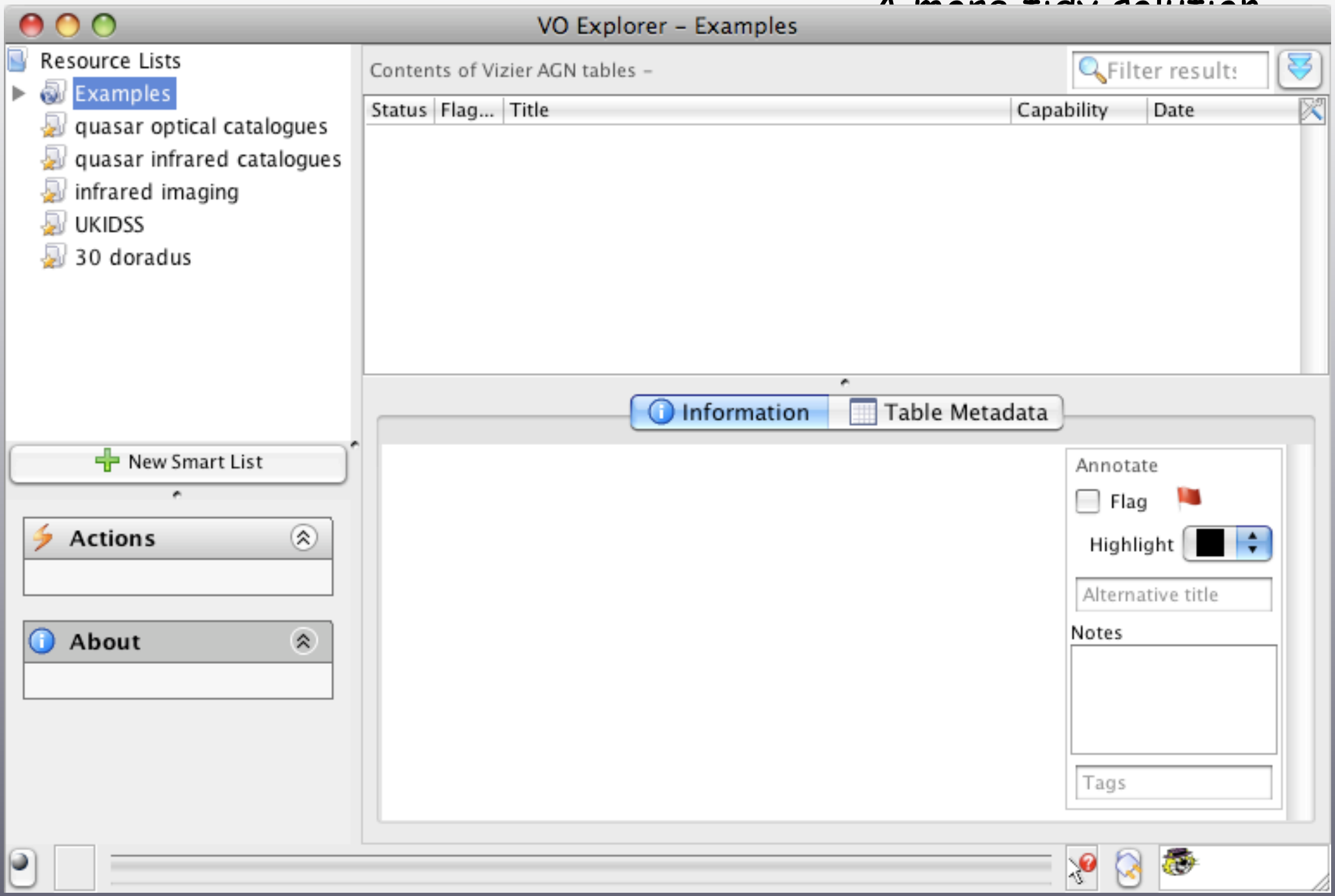
Astrogrid VO Desktop

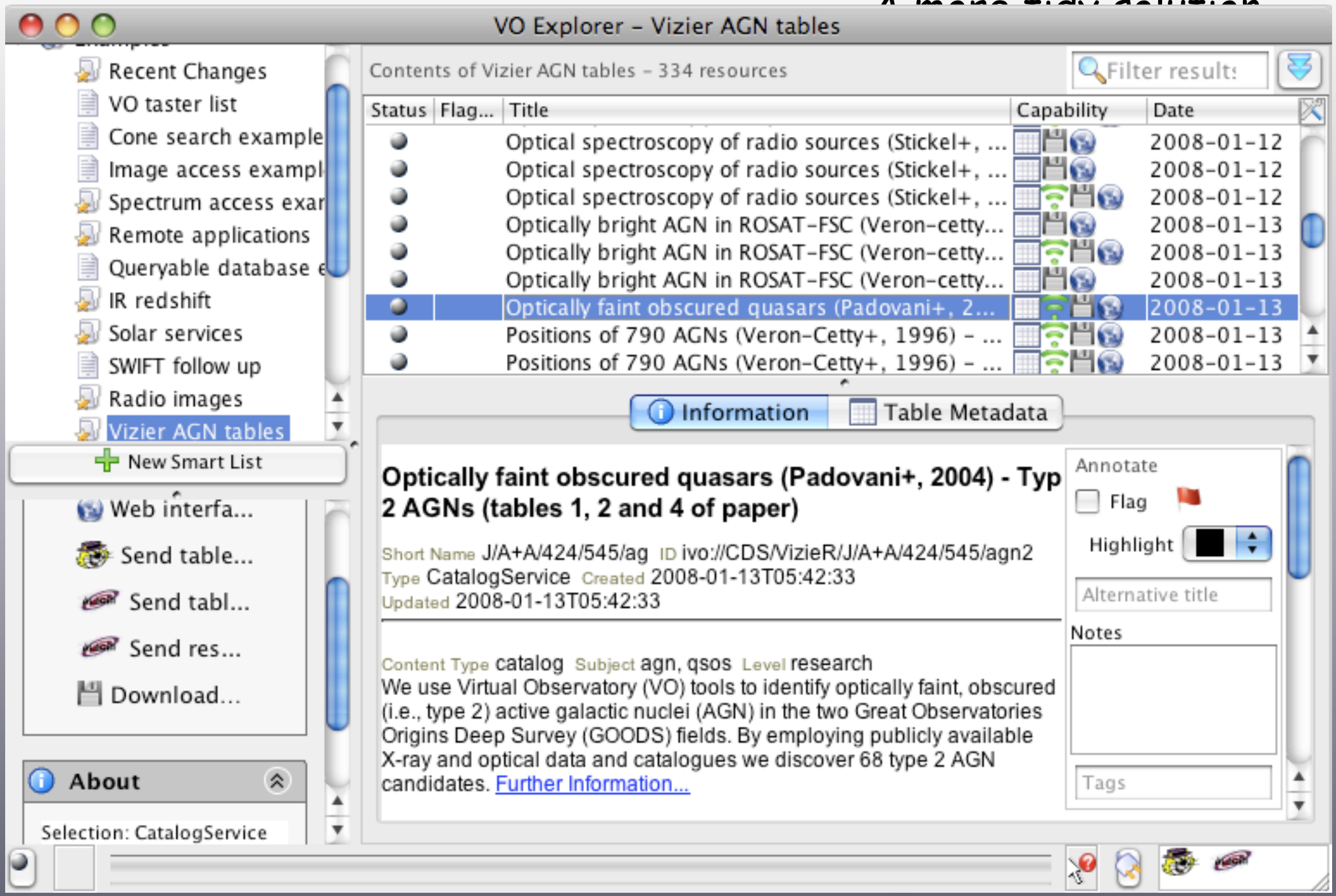
http://www.astrogrid.org/



A more tidy solution

A more tidy solution

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Updated 2008-01-13T05:42:33
Content Type catalog Subject agn, qsos Level research
We use Virtual Observatory (VO) tools to identify optically faint, obscured (i.e., type 2) active galactic nuclei (AGN) in the two Great Observatories Origins Deep Survey (GOODS) fields. By employing publicly available X-ray and optical data and catalogues we discover 68 type 2 AGN candidates. Further Information...
Annotate
Flag
Highlight
Alternative title
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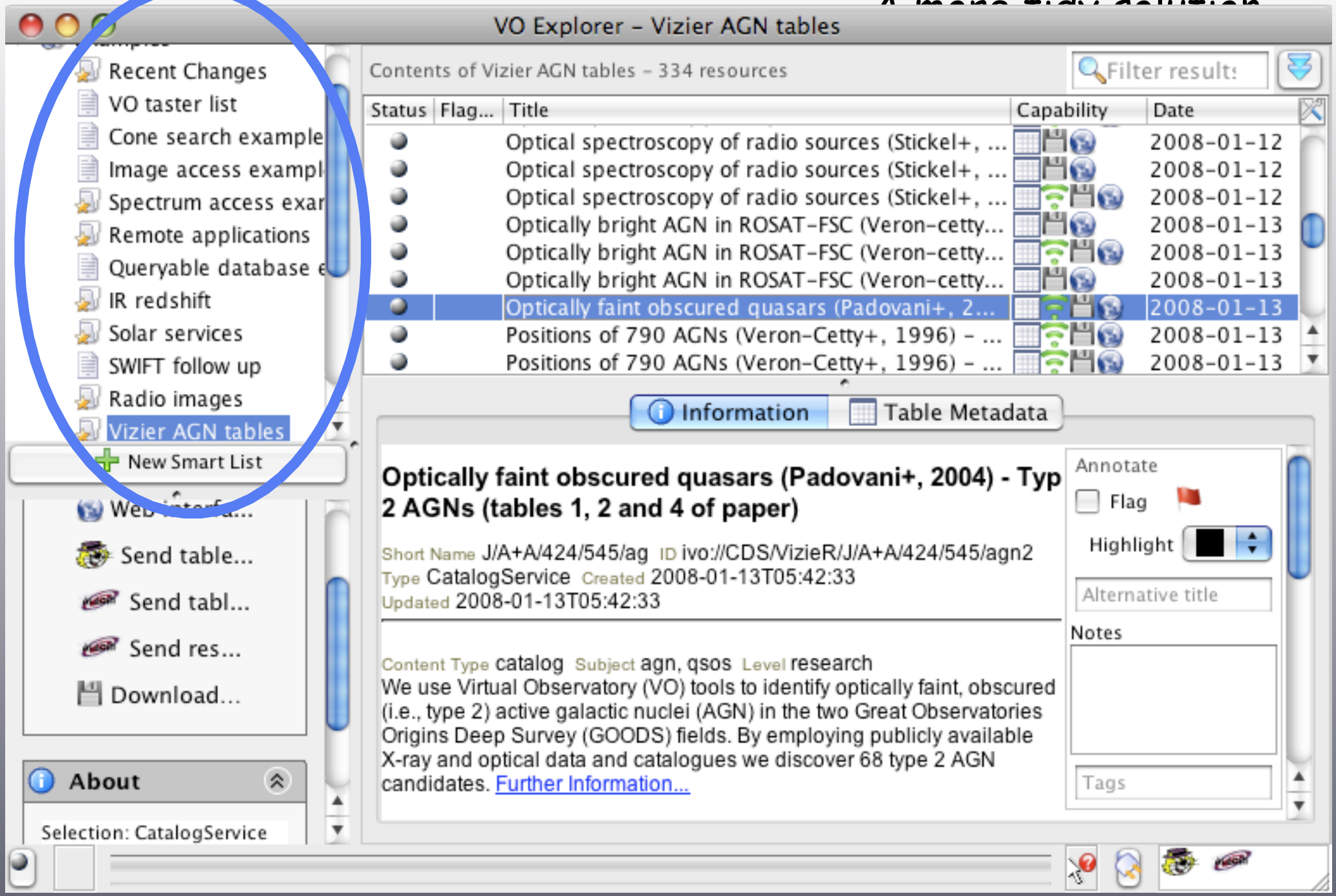
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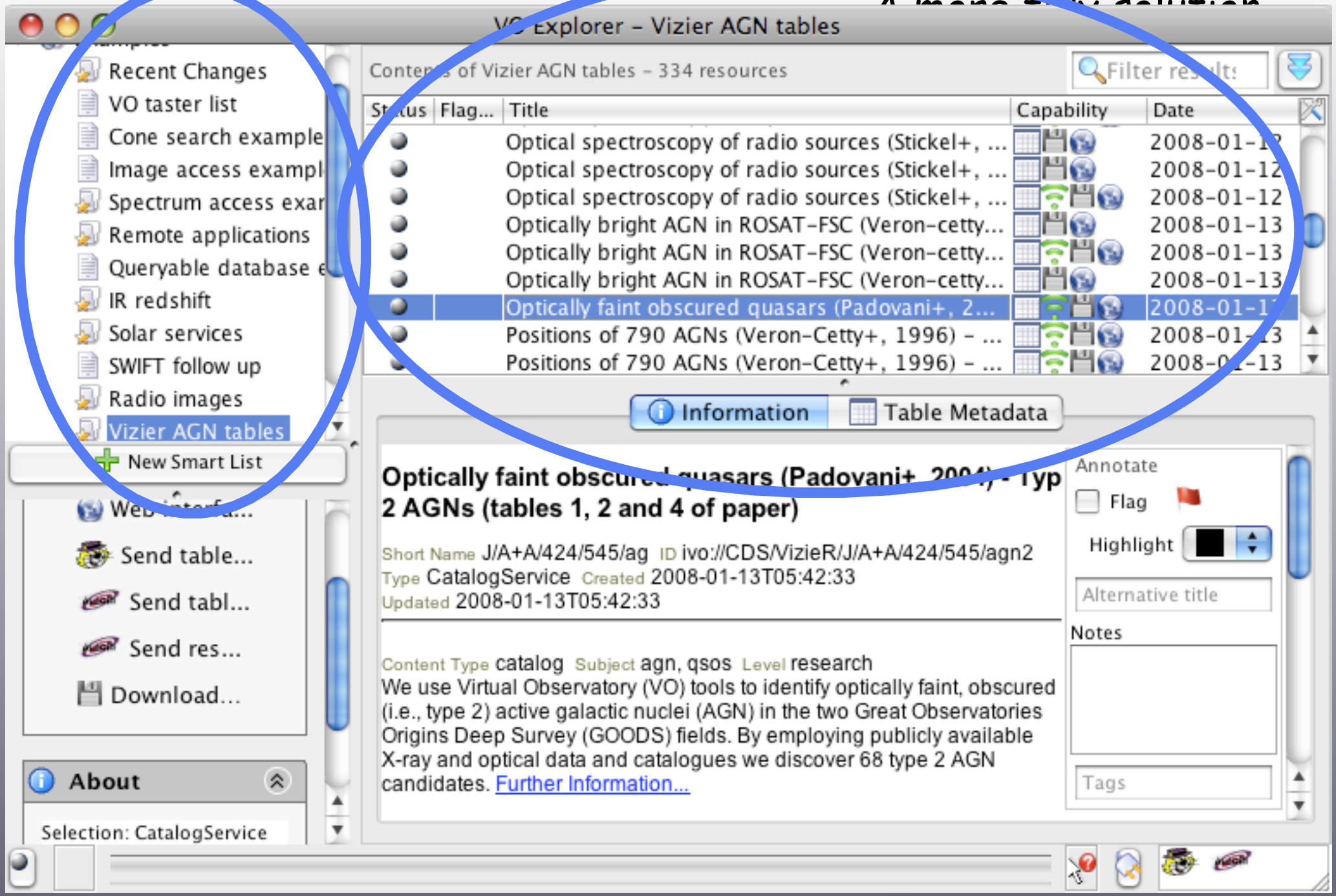
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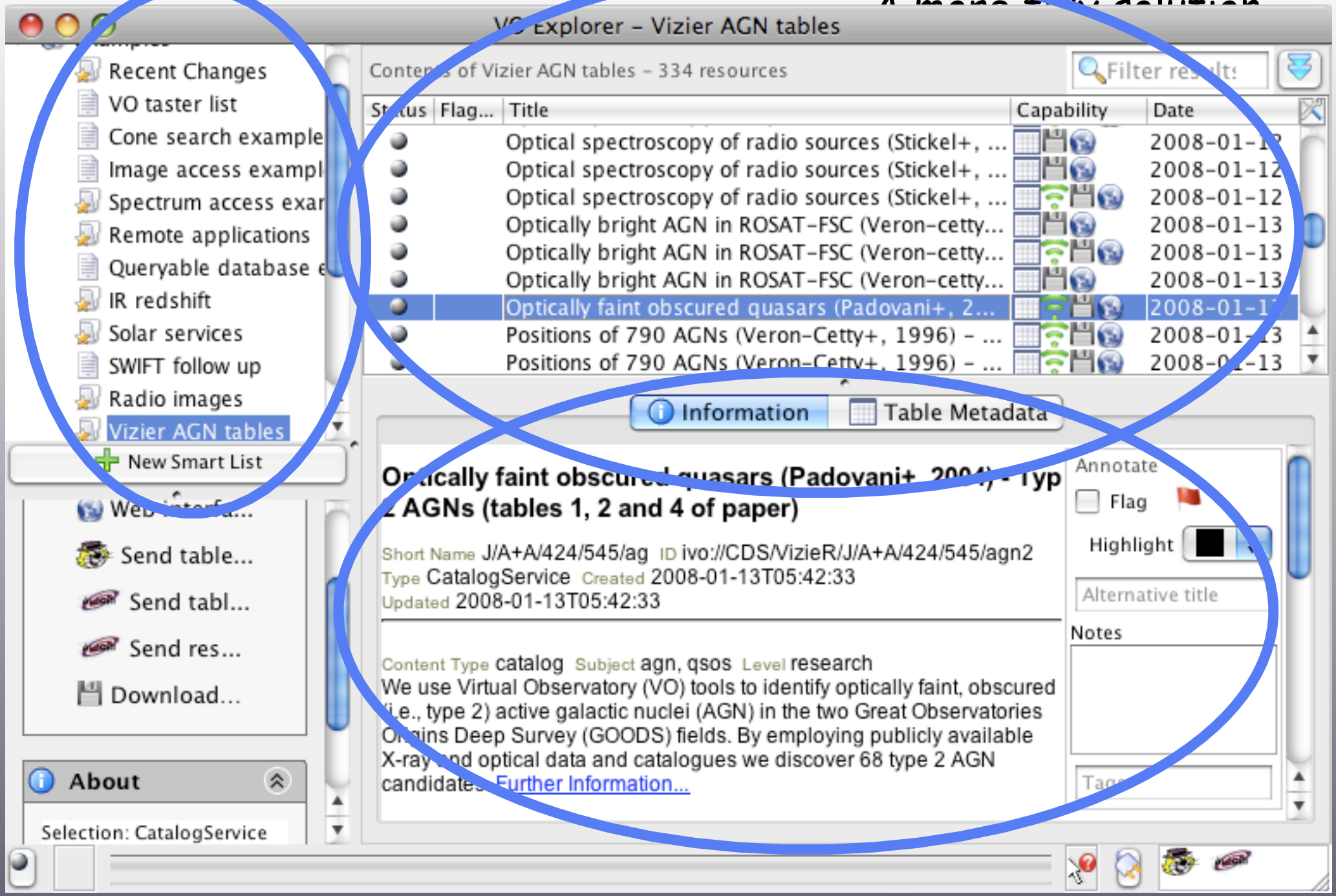
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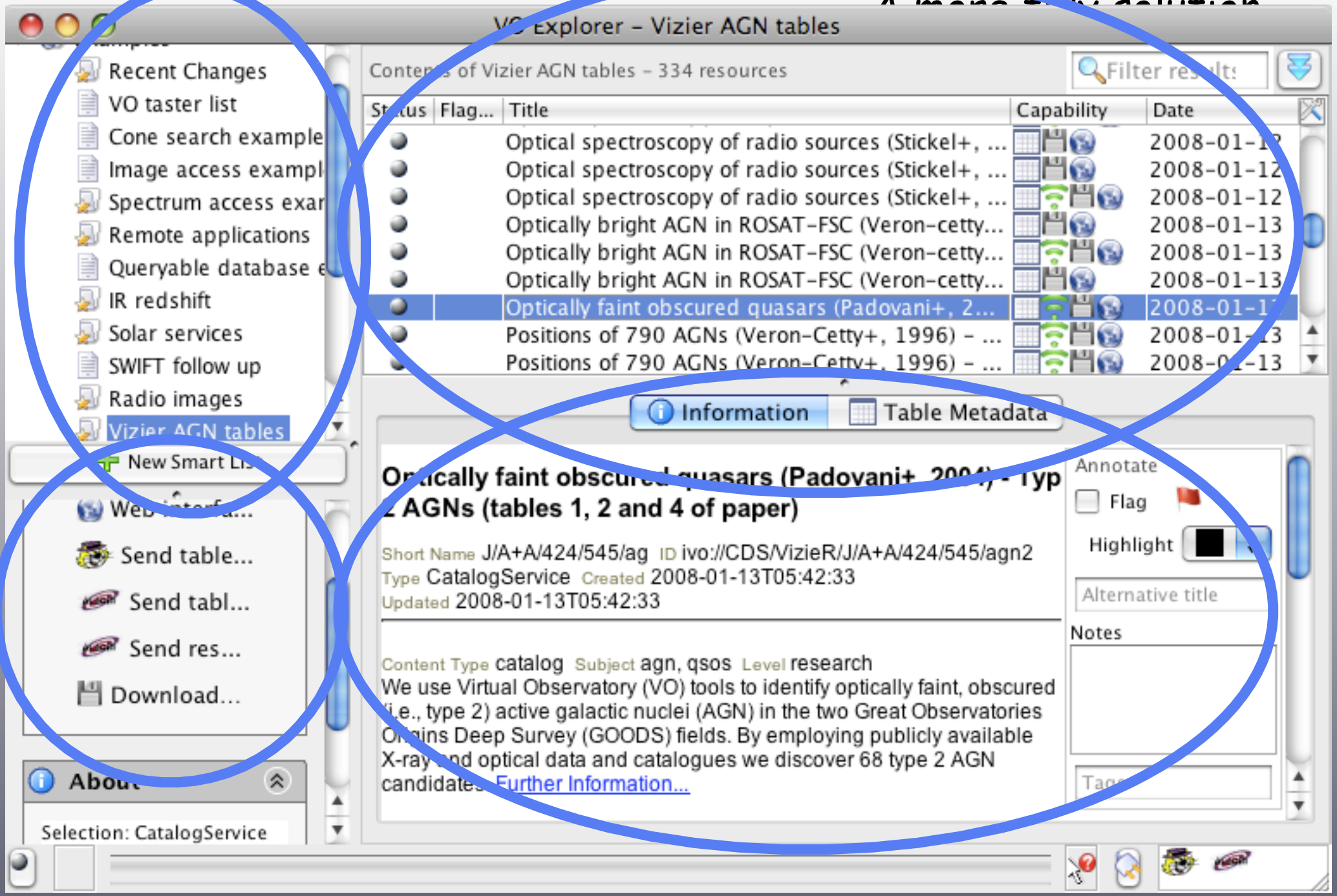
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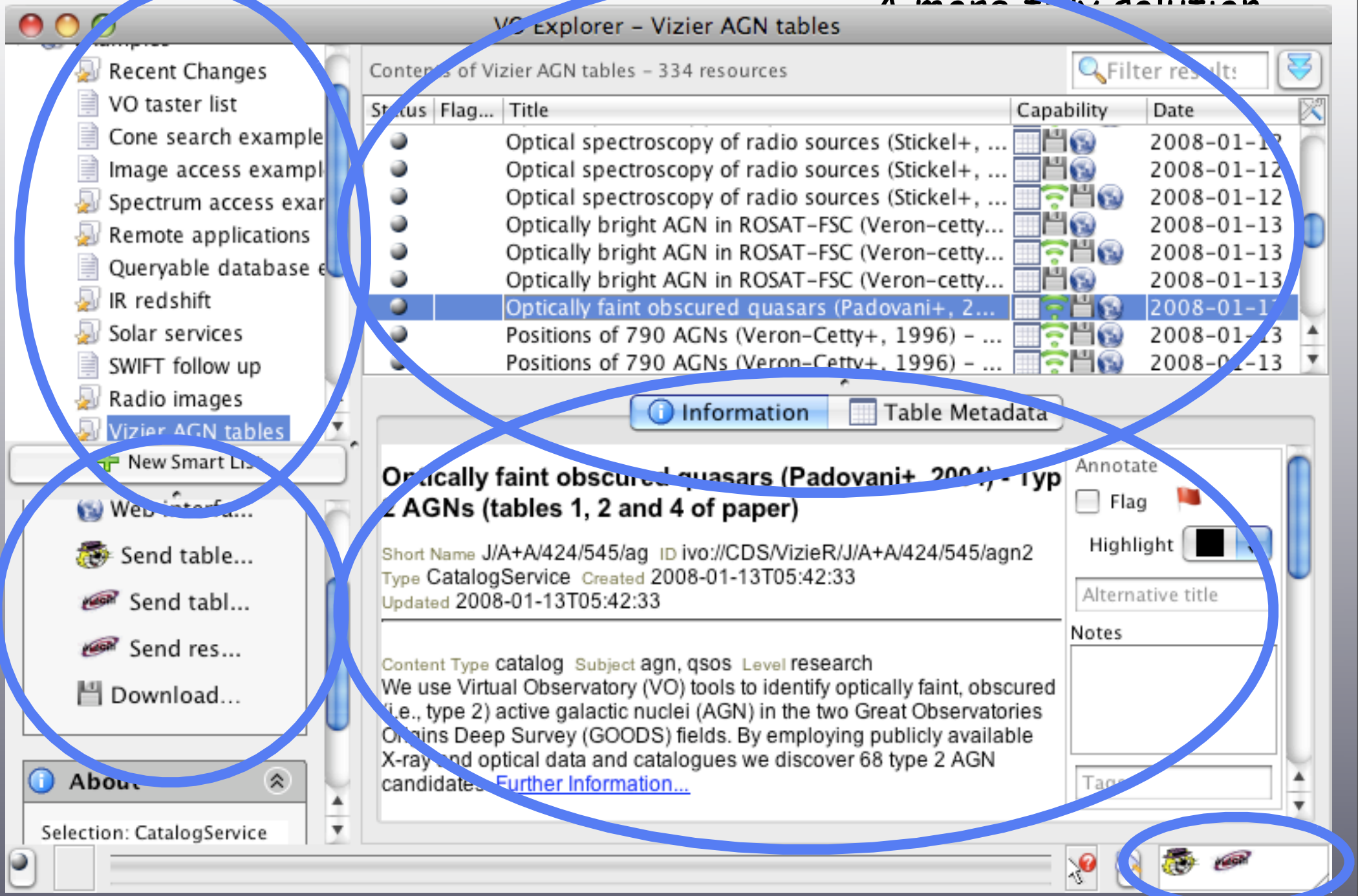
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Content Type catalog Subject agn, qsos Level research
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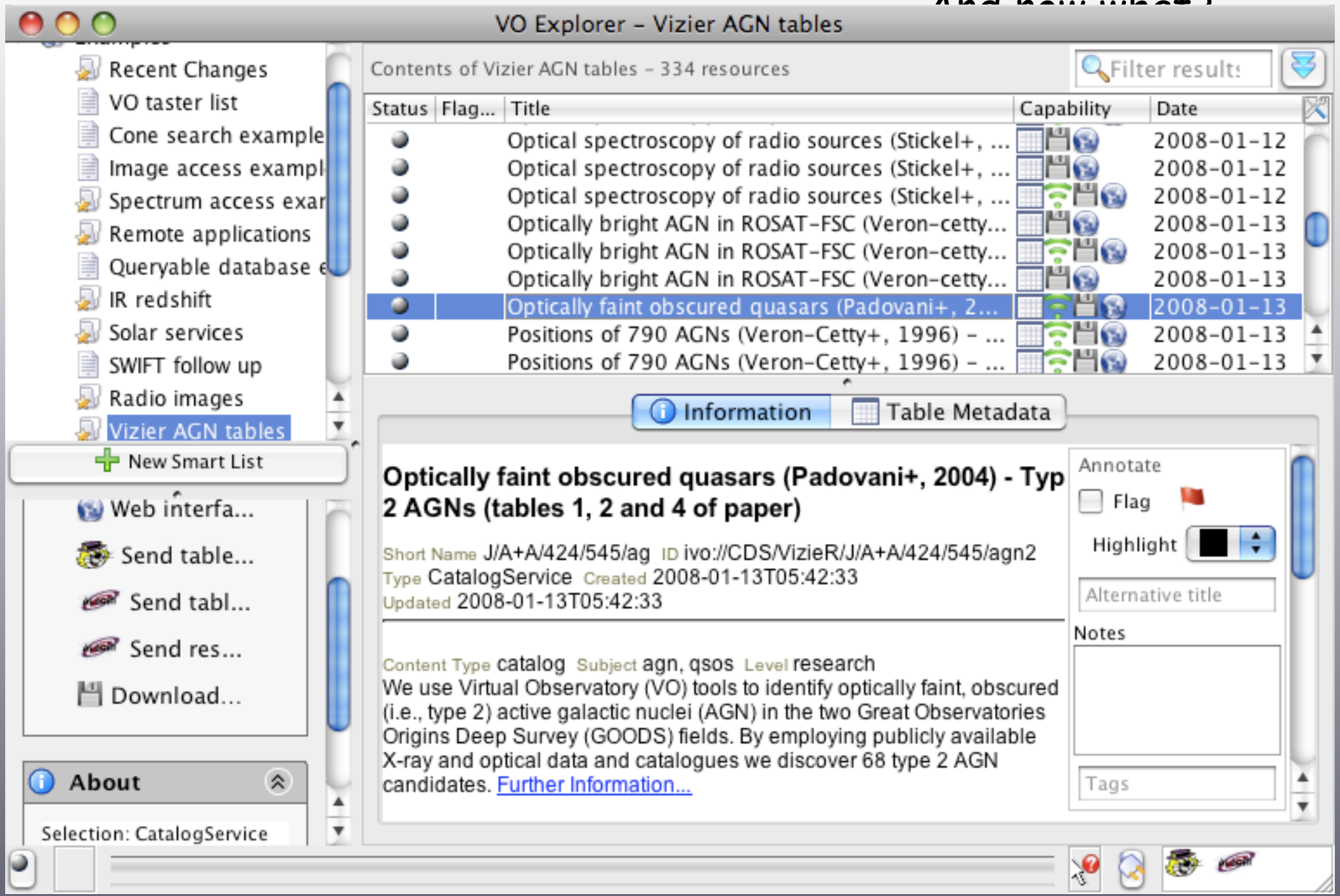
And now what?

And now what?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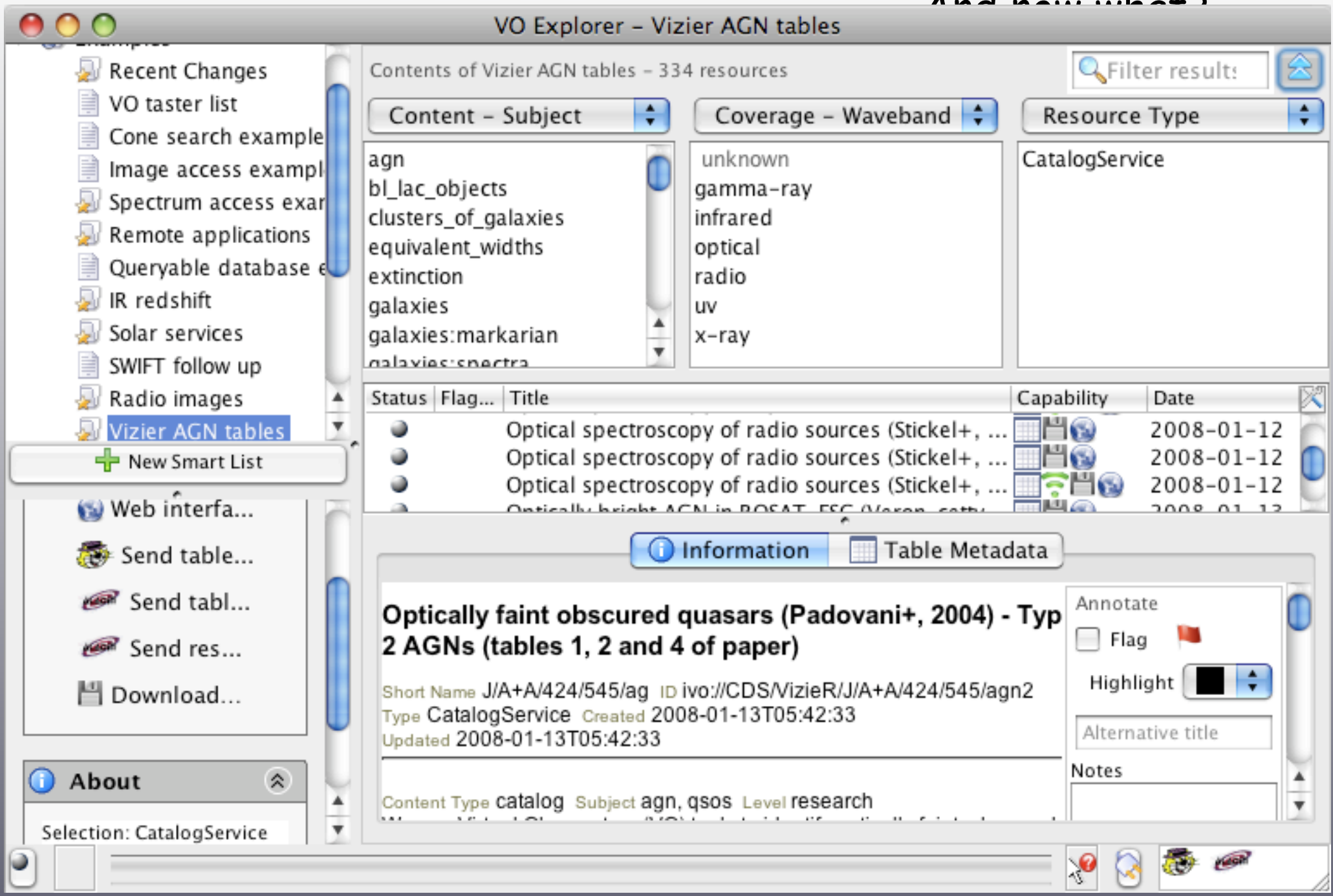
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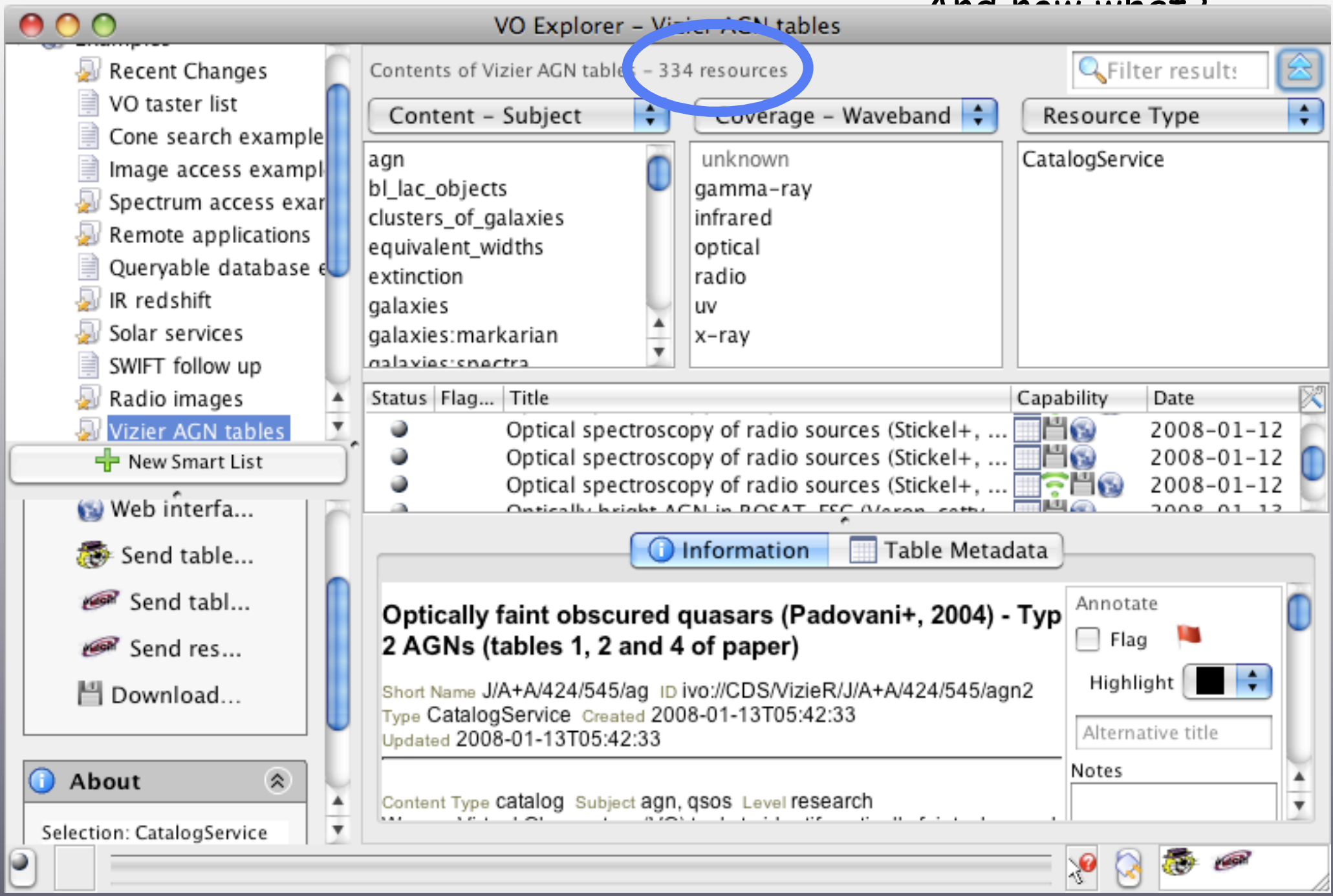
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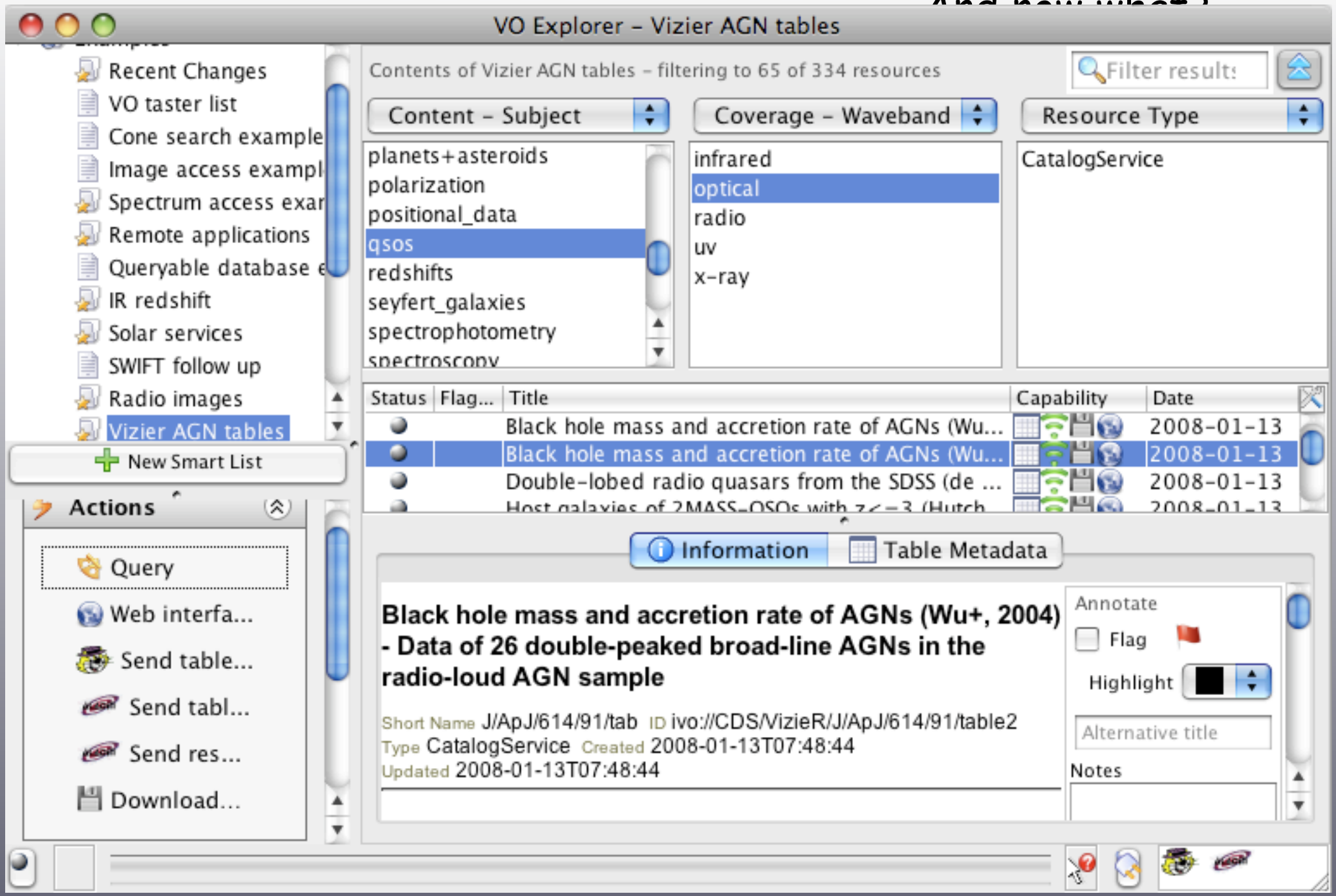
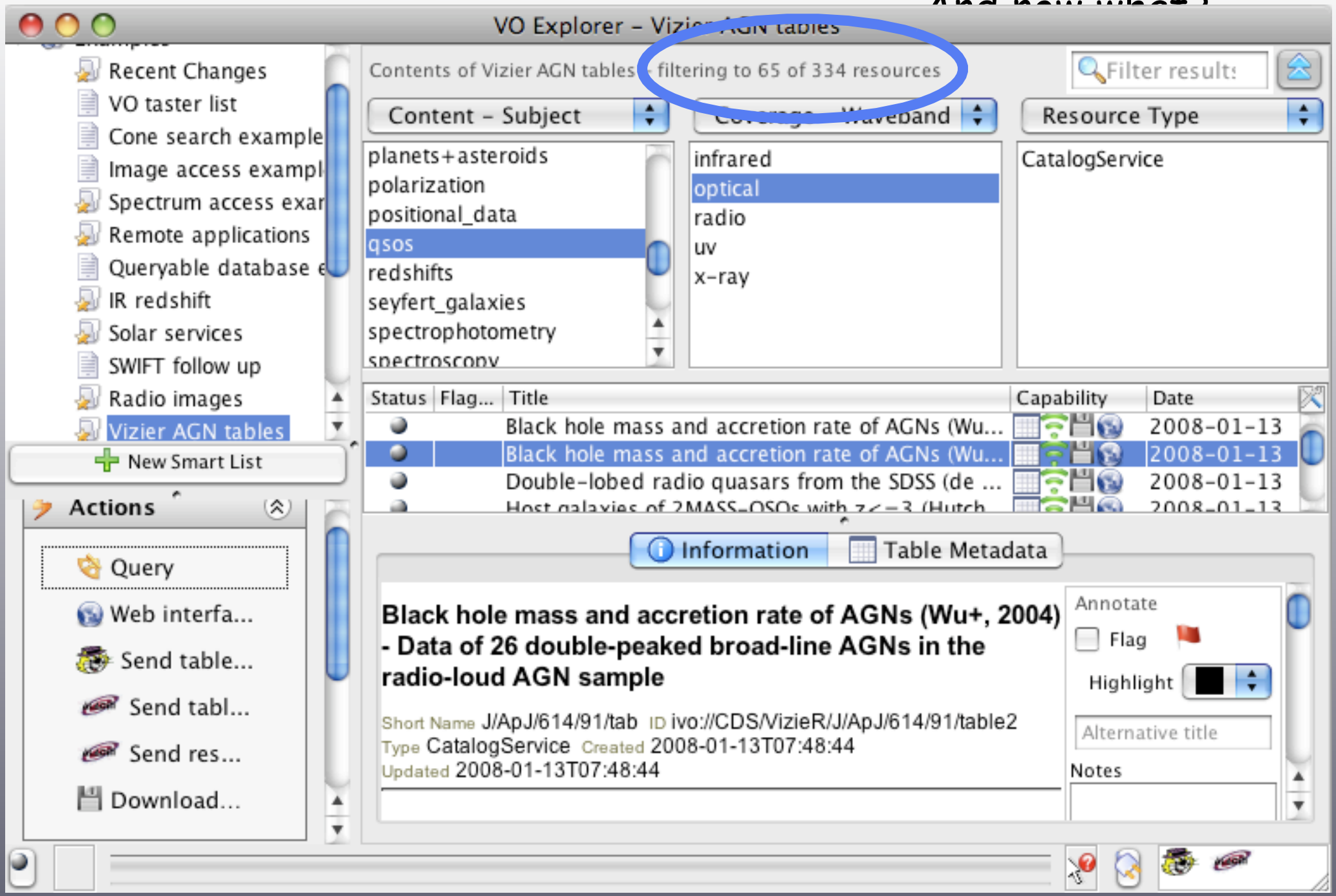
Alternative title
Notes


VO Explorer – Vizier AGN tables
Recent Changes
VO taster list
Cone search example
Image access exampl
Spectrum access exar
Remote applications
Queryable database e
IR redshift
Solar services
SWIFT follow up
Radio images
Vizier AGN tables
New Smart List
Actions
Query
Web interfa...
Send table...
Send tabl...
Send res...
Download...
Contents of Vizier AGN tables – filtering to 65 of 334 resources
Filter results
Content – Subject
Coverage – Waveband
Resource Type
planets+asteroids
polarization
positional_data
qsos
redshifts
seyfert_galaxies
spectrophotometry
spectroscopy
infrared
optical
radio
uv
x-ray
CatalogService
Status
Flag...
Title
Capability
Date
Black hole mass and accretion rate of AGNs (Wu...
2008-01-13
Black hole mass and accretion rate of AGNs (Wu...
2008-01-13
Double-lobed radio quasars from the SDSS (de ...
2008-01-13
Information
Table Metadata
Black hole mass and accretion rate of AGNs (Wu+, 2004) - Data of 26 double-peaked broad-line AGNs in the radio-loud AGN sample
Short Name J/ApJ/614/91/tab ID ivo://CDS/VizieR/J/ApJ/614/91/table2
Type CatalogService Created 2008-01-13T07:48:44
Updated 2008-01-13T07:48:44
Annotate
Flag
Highlight
Alternative title
Notes


VO Explorer – Vizier AGN tables
Recent Changes
VO taster list
Cone search example
Image access exampl
Spectrum access exar
Remote applications
Queryable database e
IR redshift
Solar services
SWIFT follow up
Radio images
Vizier AGN tables
New Smart List
Actions
Query
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Send table...
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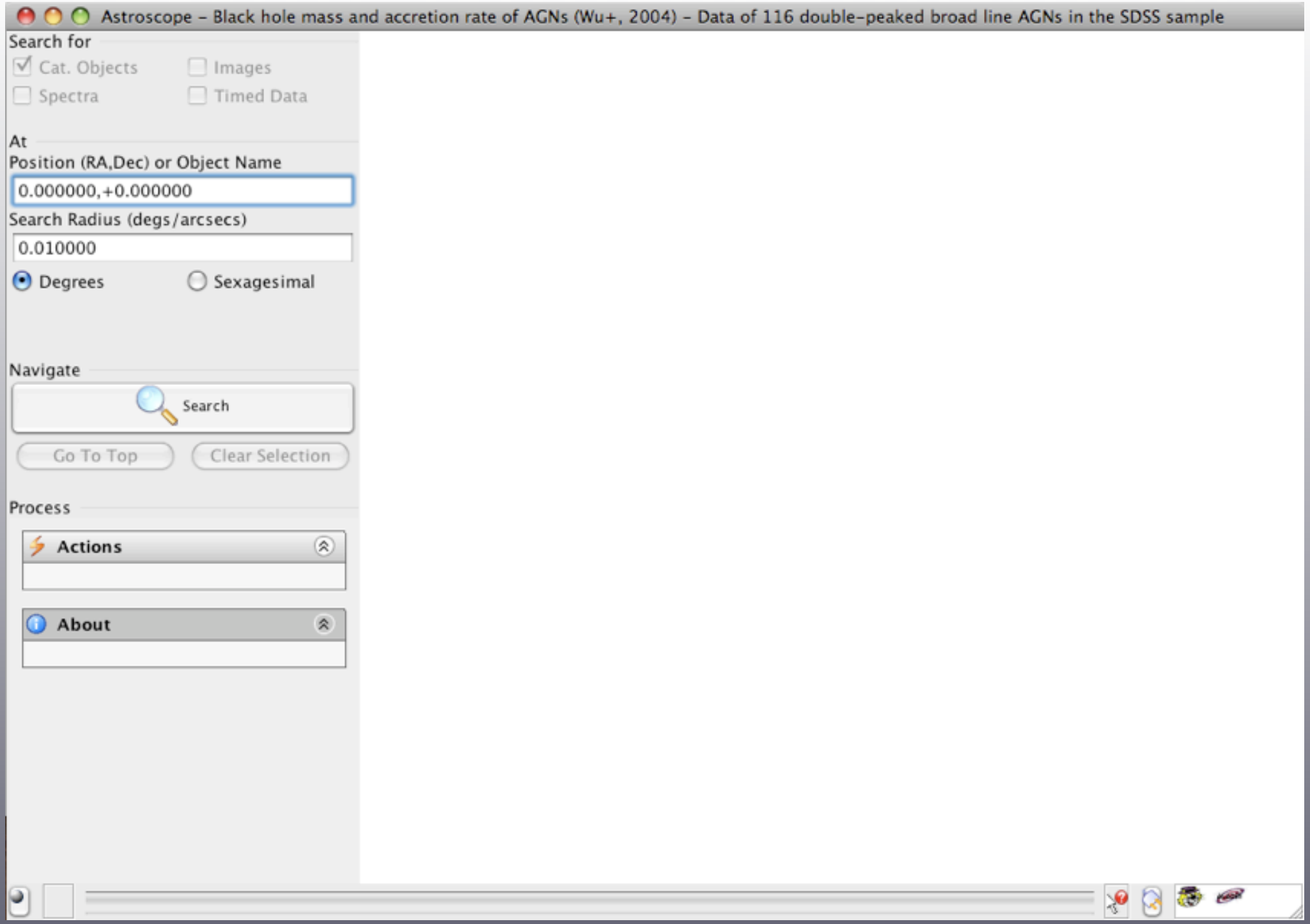
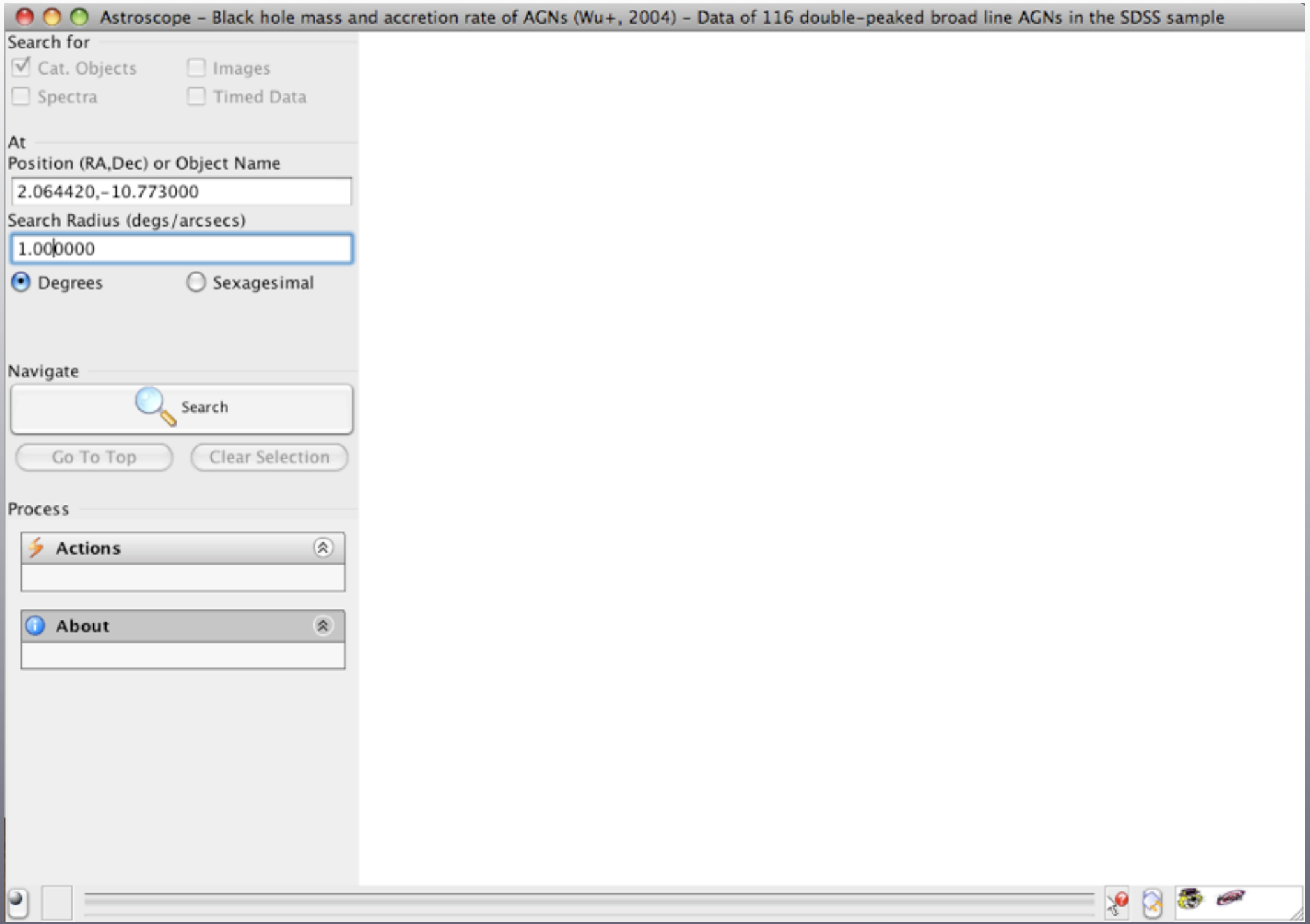
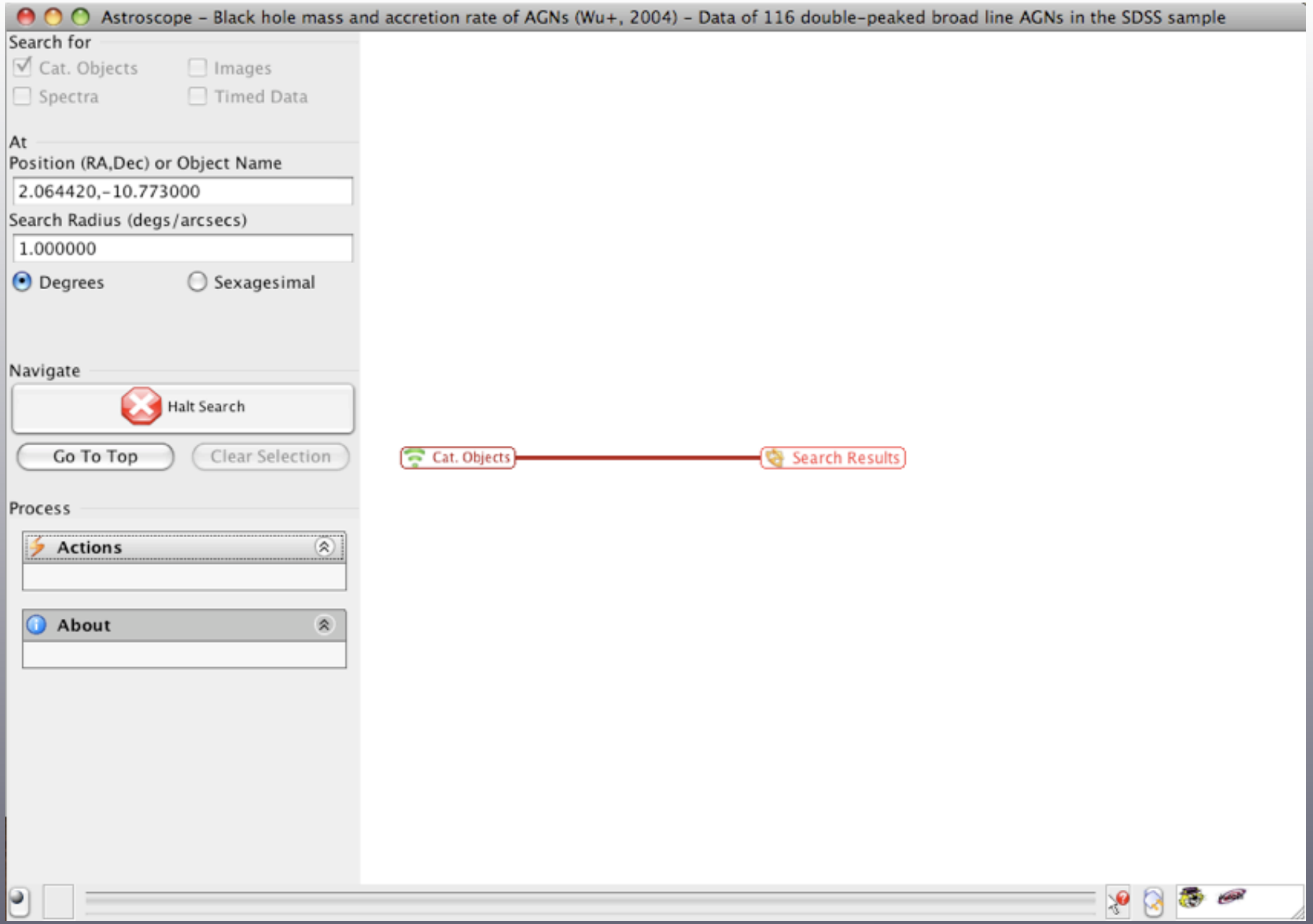
Download...
Contents of Vizier AGN tables - filtering to 65 of 334 resources
Filter results
Content – Subject
Resource Type
planets+asteroids
polarization
positional_data
qsos
redshifts
seyfert_galaxies
spectrophotometry
spectroscopy
infrared
optical
radio
uv
x-ray
CatalogService
Status
Flag...
Title
Capability
Date
Black hole mass and accretion rate of AGNs (Wu...
2008-01-13
Black hole mass and accretion rate of AGNs (Wu...
2008-01-13
Double-lobed radio quasars from the SDSS (de ...
2008-01-13
Information
Table Metadata
Black hole mass and accretion rate of AGNs (Wu+, 2004) - Data of 26 double-peaked broad-line AGNs in the radio-loud AGN sample
Short Name J/ApJ/614/91/tab ID ivo://CDS/VizieR/J/ApJ/614/91/table2
Type CatalogService Created 2008-01-13T07:48:44
Updated 2008-01-13T07:48:44
Annotate
Flag
Highlight
Alternative title
Notes

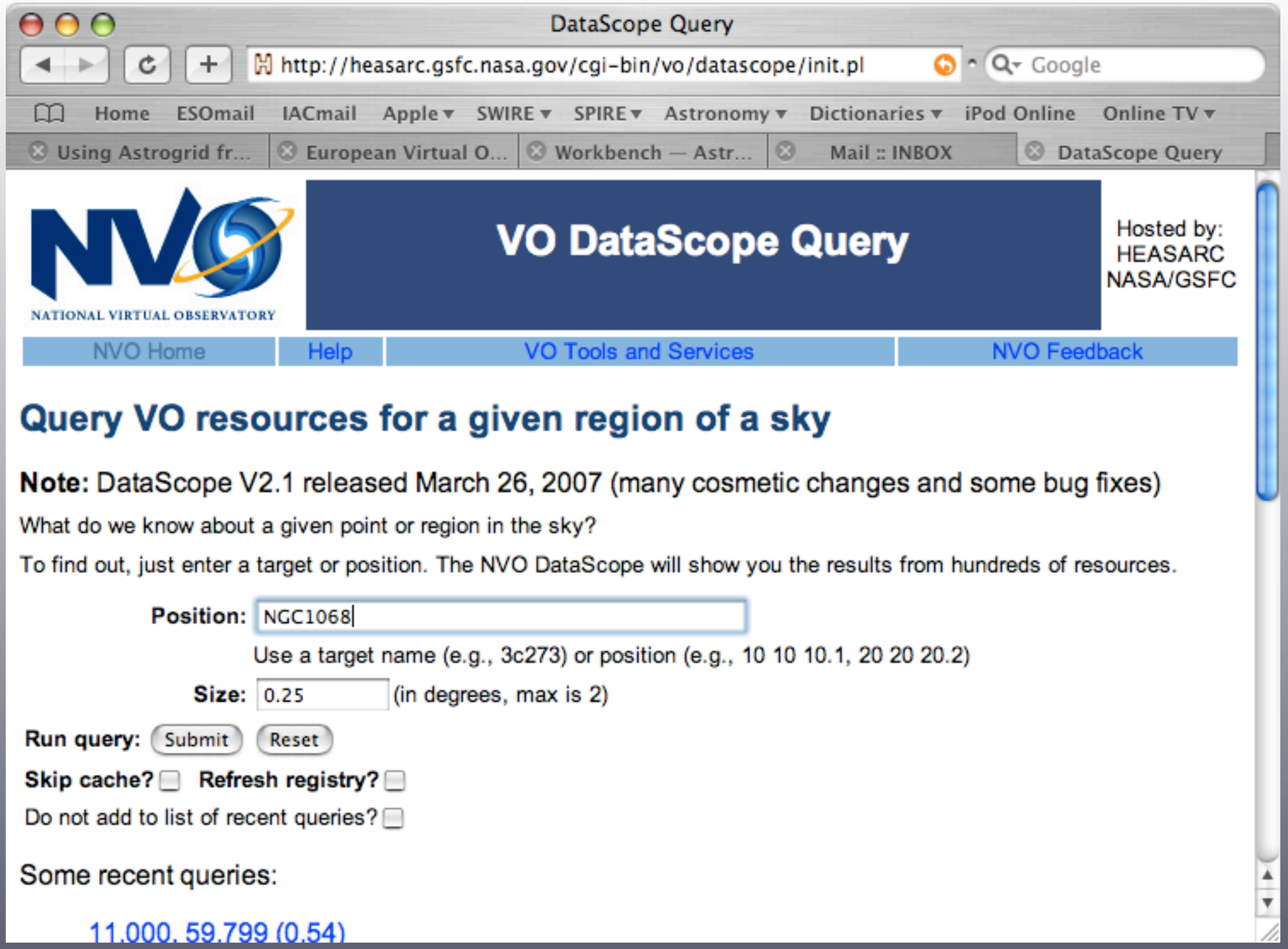

Astroscope – Black hole mass and accretion rate of AGNs (Wu+, 2004) – Data of 116 double-peaked broad line AGNs in the SDSS sample
Search for
Cat. Objects
Images
Spectra
Timed Data
At
Position (RA,Dec) or Object Name
0.000000,+0.000000
Search Radius (degs/arcsecs)
0.010000
Degrees
Sexagesimal
Navigate
Search
Go To Top
Clear Selection
Process
Actions
About


Astroscope - Black hole mass and accretion rate of AGNs (Wu+, 2004) - Data of 116 double-peaked broad line AGNs in the SDSS sample
Search for
Cat. Objects
Images
Spectra
Timed Data
At
Position (RA,Dec) or Object Name
2.064420,-10.773000
Search Radius (degs/arcsecs)
1.000000
Degrees
Sexagesimal
Navigate
Search
Go To Top
Clear Selection
Process
Actions
About


Astroscope – Black hole mass and accretion rate of AGNs (Wu+, 2004) – Data of 116 double-peaked broad line AGNs in the SDSS sample
Search for
Cat. Objects
Images
Spectra
Timed Data
At
Position (RA,Dec) or Object Name
2.064420,-10.773000
Search Radius (degs/arcsecs)
1.000000
Degrees
Sexagesimal
Navigate
Halt Search
Go To Top
Clear Selection
Process
Actions
About
Cat. Objects
Search Results

DataScope

http://heasarc.gsfc.nasa.gov/cgi-bin/vo/datascope/init.pl


DataScope Query
http://heasarc.gsfc.nasa.gov/cgi-bin/vo/datascope/init.pl
Google
Home ESOmail IACmail Apple SWIRE SPIRE Astronomy Dictionaries iPod Online Online TV
Using Astrogrid fr...
European Virtual O...
Workbench — Astr...
Mail :: INBOX
DataScope Query
NATIONAL VIRTUAL OBSERVATORY
VO DataScope Query
Hosted by:
HEASARC
NASA/GSFC
NVO Home
Help
VO Tools and Services
NVO Feedback
Query VO resources for a given region of a sky
Note: DataScope V2.1 released March 26, 2007 (many cosmetic changes and some bug fixes)
What do we know about a given point or region in the sky?
To find out, just enter a target or position. The NVO DataScope will show you the results from hundreds of resources.
Position: NGC1068
Use a target name (e.g., 3c273) or position (e.g., 10 10 10.1, 20 20 20.2)
Size: 0.25 (in degrees, max is 2)
Run query: Submit Reset
Skip cache? Refresh registry?
Do not add to list of recent queries?
Some recent queries:
11.000, 59.799 (0.54)

DataScope query:NGC1068

Data found(168) No data (224) Errors(5) Waiting(166) 70% complete

Position:NGC1068 Resources/hits: 563/43769 Cache age:0.049 hours Stop updates

Summary | Resources | Data Table | No Data | Still Processing | Errors | Help

Summary of Request and Selections

Request parameters	
Target: NGC1068	
02 42 40.83	-00 00 48.4
40.670125	-0.013444
Size:	0.25

No resources currently selected

DSS1 Optical Image of Requested Region (from *SkyView*)

Analysis Options

Aladin Applet Aladin script

Save as tar

Hosted by the Astrophysics Science Division

DataScope query:NGC1068

Data found(214) No data (343) Errors(6) Waiting(0) 100% complete

Position:NGC1068 Resources/hits: 563/45549 Cache age:0.075 hours

Summary | Resources | Data Table | No Data | Still Processing | Errors | Help

Summary of Request and Selections

Request parameters	
Target: NGC1068	
02 42 40.83	-00 00 48.4
40.670125	-0.013444
Size:	0.25

No resources currently selected

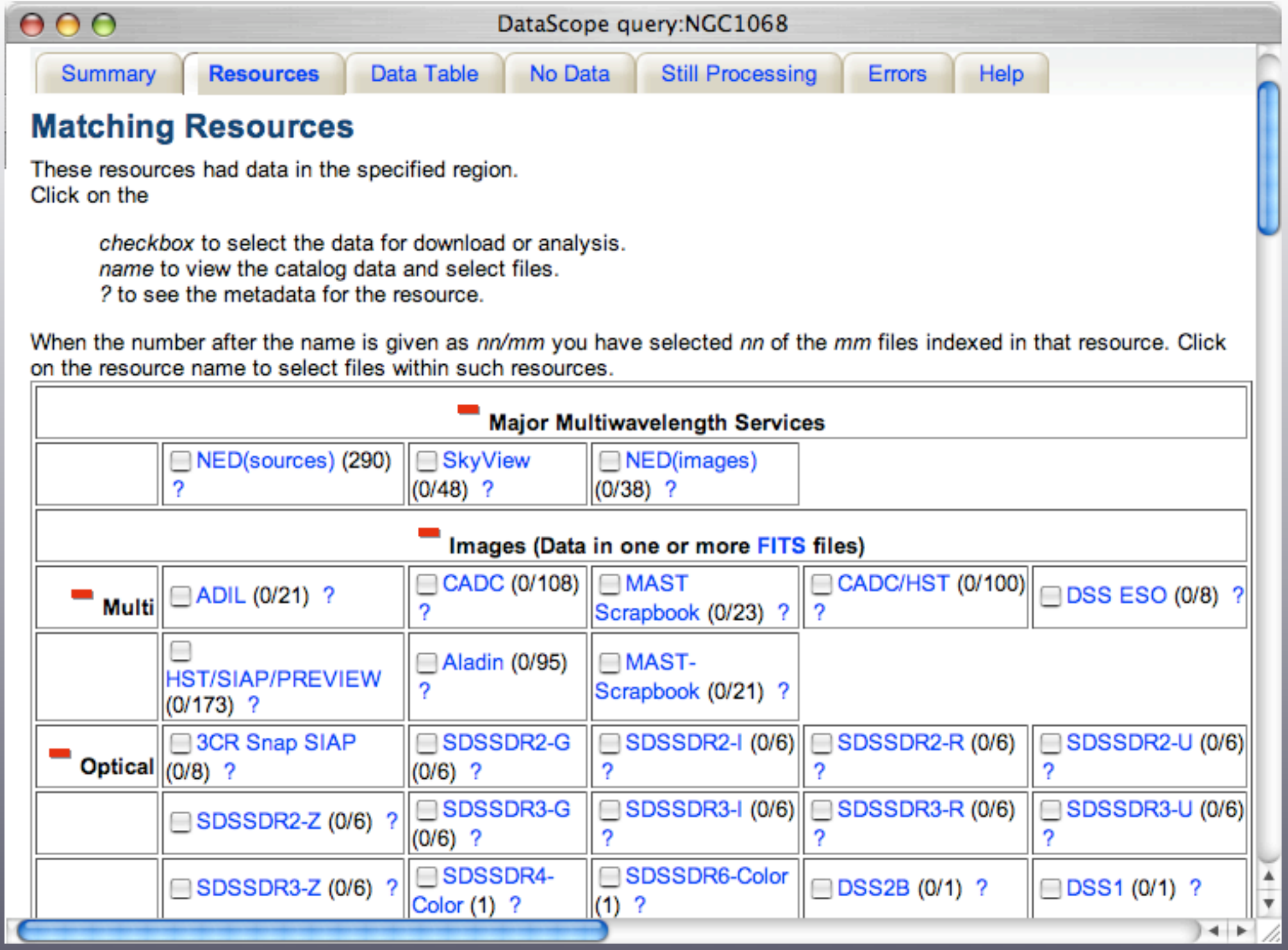
DSS1 Optical Image of Requested Region (from *SkyView*)

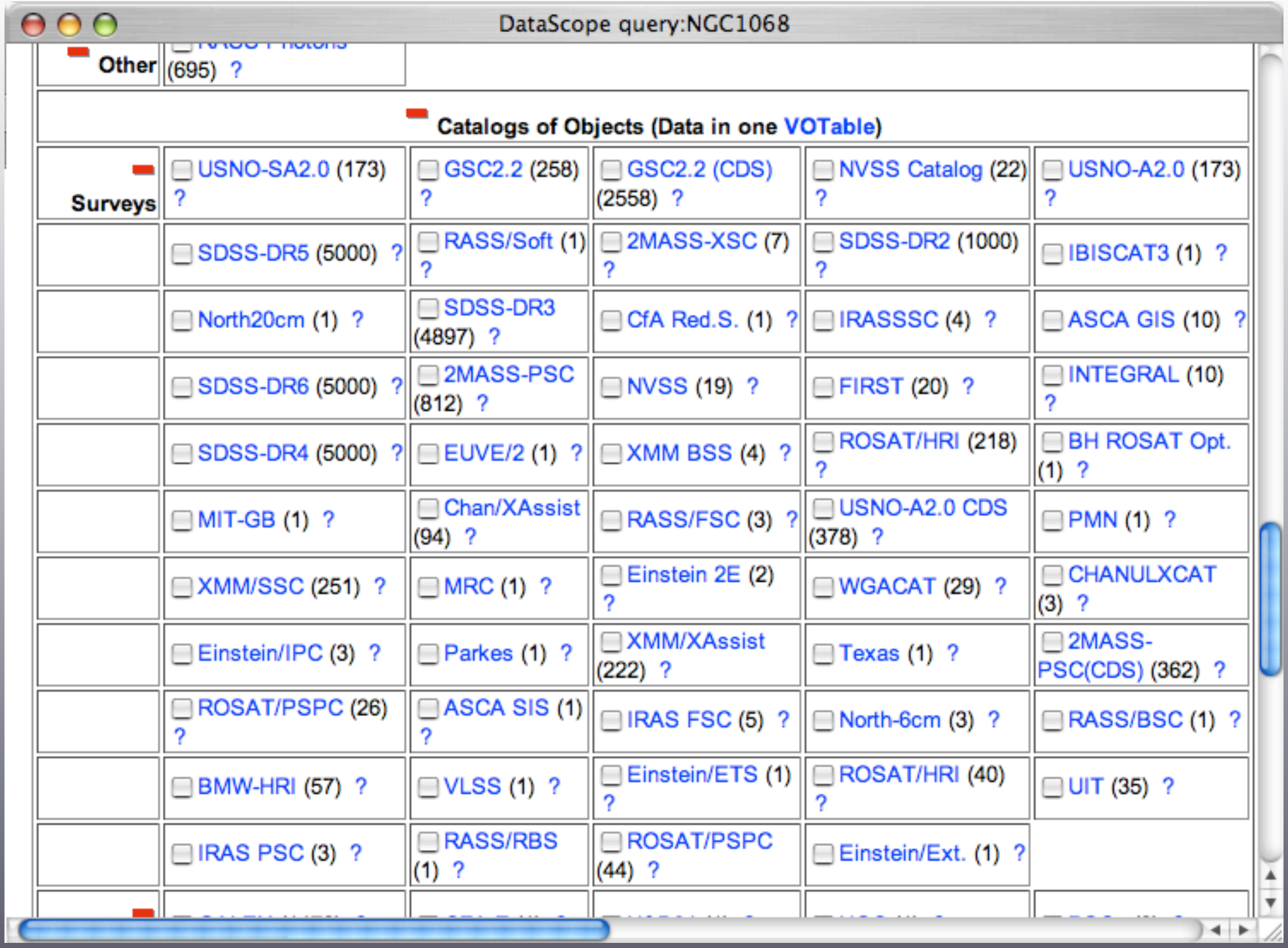
Analysis Options

Aladin Applet Aladin script

Save as tar

Hosted by the Astrophysics Science Division


DataScope query:NGC1068
Summary
Resources
Data Table
No Data
Still Processing
Errors
Help
Matching Resources
These resources had data in the specified region.
Click on the
checkbox to select the data for download or analysis.
name to view the catalog data and select files.
? to see the metadata for the resource.
When the number after the name is given as nn/mm you have selected nn of the mm files indexed in that resource. Click on the resource name to select files within such resources.
Major Multiwavelength Services
NED(sources) (290) ?
SkyView (0/48) ?
NED(images) (0/38) ?
Images (Data in one or more FITS files)
Multi
ADIL (0/21) ?
CADC (0/108) ?
MAST Scrapbook (0/23) ?
CADC/HST (0/100) ?
DSS ESO (0/8) ?
HST/SIAP/PREVIEW (0/173) ?
Aladin (0/95) ?
MAST-Scrapbook (0/21) ?
Optical
3CR Snap SIAP (0/8) ?
SDSSDR2-G (0/6) ?
SDSSDR2-I (0/6) ?
SDSSDR2-R (0/6) ?
SDSSDR2-U (0/6) ?
SDSSDR2-Z (0/6) ?
SDSSDR3-G (0/6) ?
SDSSDR3-I (0/6) ?
SDSSDR3-R (0/6) ?
SDSSDR3-U (0/6) ?
SDSSDR3-Z (0/6) ?
SDSSDR4-Color (1) ?
SDSSDR6-Color (1) ?
DSS2B (0/1) ?
DSS1 (0/1) ?


DataScope query:NGC1068
Other
(695) ?
Catalogs of Objects (Data in one VOTable)
Surveys
USNO-SA2.0 (173) ?
GSC2.2 (258) ?
GSC2.2 (CDS) (2558) ?
NVSS Catalog (22) ?
USNO-A2.0 (173) ?
SDSS-DR5 (5000) ?
RASS/Soft (1) ?
2MASS-XSC (7) ?
SDSS-DR2 (1000) ?
IBISCAT3 (1) ?
North20cm (1) ?
SDSS-DR3 (4897) ?
CfA Red.S. (1) ?
IRASSSC (4) ?
ASCA GIS (10) ?
SDSS-DR6 (5000) ?
2MASS-PSC (812) ?
NVSS (19) ?
FIRST (20) ?
INTEGRAL (10) ?
SDSS-DR4 (5000) ?
EUVE/2 (1) ?
XMM BSS (4) ?
ROSAT/HRI (218) ?
BH ROSAT Opt. (1) ?
MIT-GB (1) ?
Chan/XAssist (94) ?
RASS/FSC (3) ?
USNO-A2.0 CDS (378) ?
PMN (1) ?
XMM/SSC (251) ?
MRC (1) ?
Einstein 2E (2) ?
WGACAT (29) ?
CHANULXCAT (3) ?
Einstein/IPC (3) ?
Parkes (1) ?
XMM/XAssist (222) ?
Texas (1) ?
2MASS-PSC(CDS) (362) ?
ROSAT/PSPC (26) ?
ASCA SIS (1) ?
IRAS FSC (5) ?
North-6cm (3) ?
RASS/BSC (1) ?
BMW-HRI (57) ?
VLSS (1) ?
Einstein/ETS (1) ?
ROSAT/HRI (40) ?
UIT (35) ?
IRAS PSC (3) ?
RASS/RBS (1) ?
ROSAT/PSPC (44) ?
Einstein/Ext. (1) ?

DataScope query:NGC1068

Data found(214) No data (343) Errors(6) Waiting(0) 100% complete

Position:NGC1068 Resources/hits: 563/45549 Cache age:0.075 hours

Summary | Resources | **Data Table** | No Data | Still Processing | Errors | Help

Data for Sloan Digital Sky Survey (DR5)

Quick Links: ASCII | MetaData | XML | VOPlot | Overlay

<<First <Prev| 1-25 |Next> Last>>

OBJID	RA	DEC	TYPE	U	G	R	I	Z	ERR_U	
588015509287075902	02 41 49.4	00 03 31.5	STAR	17.95561	16.02244	15.2945	15.03032	14.88583	0.01490062	0.(
587731512615305892	02 42 10.8	-00 12 06.2	GALAXY	22.29106	23.26111	21.06778	20.53043	19.60883	0.7658502	0.(
588015509287272804	02 43 29.9	00 05 00.0	GALAXY	24.08743	22.64067	20.97285	20.32081	20.08722	1.801433	0.2
588015508750336543	02 43 07.3	-00 12 39.0	GALAXY	22.67197	22.35085	21.6459	21.27841	21.27347	0.5861761	0.1
588015509287076402	02 41 49.9	00 03 51.4	GALAXY	24.16398	22.20425	21.46908	20.85853	20.14407	1.412544	0.1
587731512615240634	02 41 55.1	-00 08 06.1	STAR	24.68335	23.5085	22.74286	22.59688	22.07056	1.332488	0.3
588015509287076114	02 42 00.7	00 08 20.4	STAR	23.37856	21.63079	20.17934	19.13468	18.61207	0.7478061	0.(
587731512615437225	02 43 11.5	-00 12 00.5	STAR	25.81077	24.35126	24.55794	24.75514	20.64612	0.782912	0.5
587731512615240586	02 41 49.5	-00 05 13.2	STAR	24.88015	24.26831	22.25797	21.34087	20.50925	1.349628	0.(
588015509287207617	02 43 05.4	00 11 18.3	STAR	24.20546	23.90359	22.63456	21.94133	20.95728	1.168185	0.3
587731512615239771	02 41 51.7	-	STAR	23.89773	23.21226	22.04259	21.68326	21.8958	1.146515	0.1

DataScope query:NGC1068

Data found(214) No data (343) Errors(6) Waiting(0) 100% complete

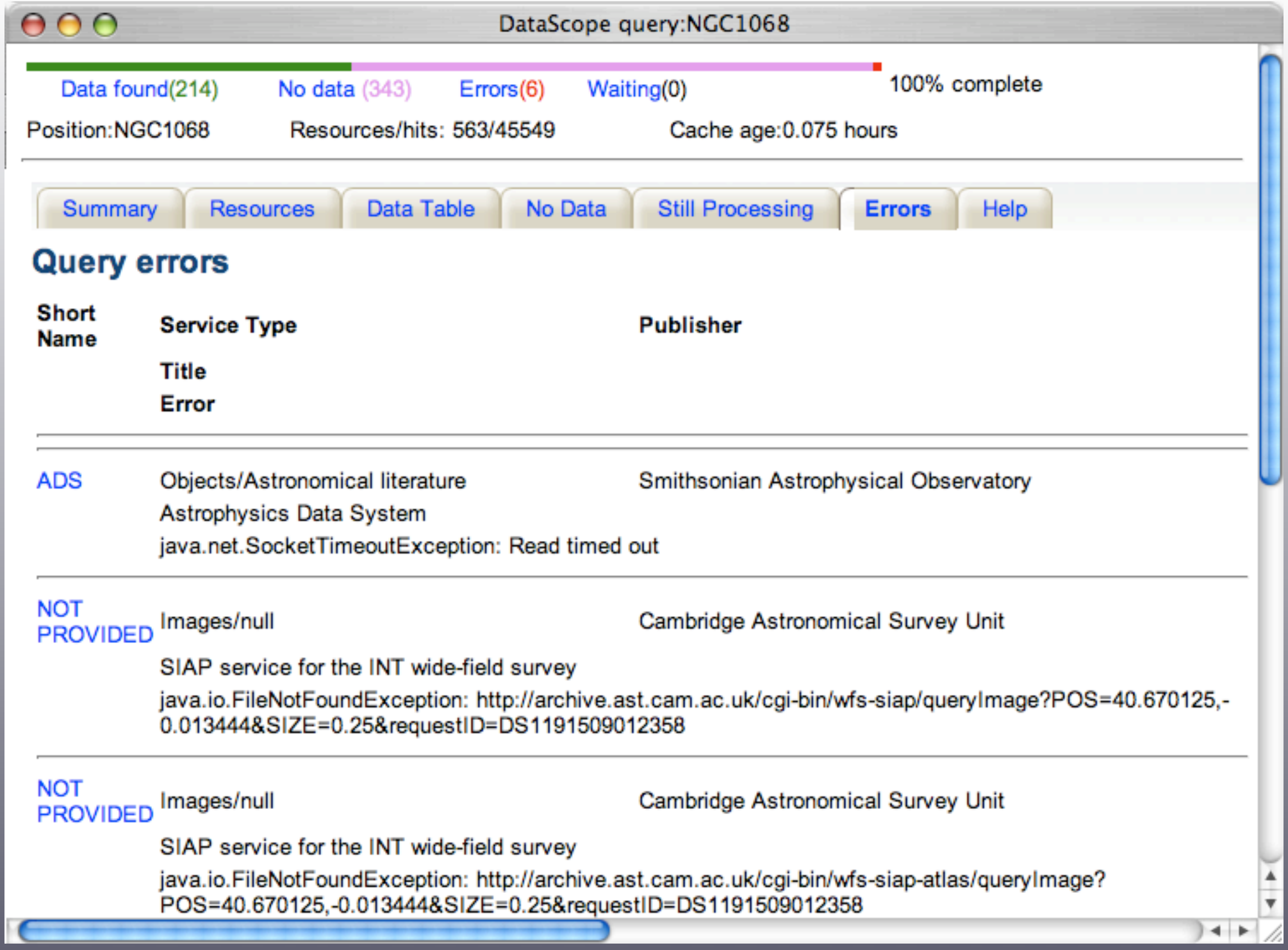
Position:NGC1068 Resources/hits: 563/45549 Cache age:0.075 hours

Summary | Resources | Data Table | **No Data** | Still Processing | Errors | Help

Non-Matching Resources

Queries of these resources completed successfully, but no results were found in the requested region.

Short Name	Resource Type	Publisher	Title
1420MHz	Images/Radio	NASA/GSFC HEASARC	Bonn 1420 MHz Survey
2IBIS SGR	Objects/Survey Source	NASA/GSFC HEASARC	Second IBIS/ISGRI Soft Gamma-Ray Surv
2MASS	Images/Infrared	NASA/GSFC HEASARC	Two Micron All Sky Survey (H-Band)
2MASS CAL AT	Images/Infrared	NASA/IPAC Infrared Science Archive	2MASS Calibration Image Service
2MASS SX AT	Images/Infrared	NASA/IPAC Infrared Science Archive	2MASS 6X Catalog Image Service
2MASS SXW AT	Images/Infrared	NASA/IPAC Infrared Science Archive	2MASS Full 6X Image Service
2QZ	Objects/Quasars,Redshift,Survey	CDS/Vizier	2dF QSO Redshift Survey. V. The 10k cata
2cmVLBA	Images/Radio	NRAO	NRAO VLBA 2cm Survey
408MHz	Images/Radio	NASA/GSFC HEASARC	HI All-Sky Continuum Survey


DataScope query:NGC1068
Data found(214)
No data (343)
Errors(6)
Waiting(0)
100% complete
Position:NGC1068
Resources/hits: 563/45549
Cache age:0.075 hours
Summary
Resources
Data Table
No Data
Still Processing
Errors
Help
Query errors
Short Name
Service Type
Publisher
Title
Error
ADS
Objects/Astronomical literature
Smithsonian Astrophysical Observatory
Astrophysics Data System
java.net.SocketTimeoutException: Read timed out
NOT PROVIDED
Images/null
Cambridge Astronomical Survey Unit
SIAP service for the INT wide-field survey
java.io.FileNotFoundException: http://archive.ast.cam.ac.uk/cgi-bin/wfs-siap/queryImage?POS=40.670125,-0.013444&SIZE=0.25&requestID=DS1191509012358
NOT PROVIDED
Images/null
Cambridge Astronomical Survey Unit
SIAP service for the INT wide-field survey
java.io.FileNotFoundException: http://archive.ast.cam.ac.uk/cgi-bin/wfs-siap-atlas/queryImage?POS=40.670125,-0.013444&SIZE=0.25&requestID=DS1191509012358

DataScope query:NGC1068

Data found(214) No data (343) Errors(6) Waiting(0) 100% complete

Position:NGC1068 Resources/hits: 563/45549 Cache age:0.075 hours

Summary | Resources | Data Table | No Data | Still Processing | Errors | Help

How to use DataScope

The NVO DataScope tool queries hundreds of astronomical services about a given location or region and organizes the information so that you can browse it, select data for download, or pass it into compatible tools for further analysis

Starting DataScope

To start DataScope, just enter a position and size in the two fields provided and submit the query. You can enter the position as a target name, or in sexagesimal or decimal coordinaets. Many formats are supported. The size is specified in decimal degrees.

Once you submit a query DataScope will start a query of registered resources that can be queried at that position. A result form will pop up and show you the kinds of responses you get.

If you wish to make sure to get fresh results you can click checkbox that skips the cache. Similarly the DataScope checks once an hour to see what resources are available to be queried. You can ask for this to be updated before your query by checking "Refresh registry" box.

A few recent queries are shown at the bottom of the page but you can leave your query off the list by clicking on the third checkbox.

Query results

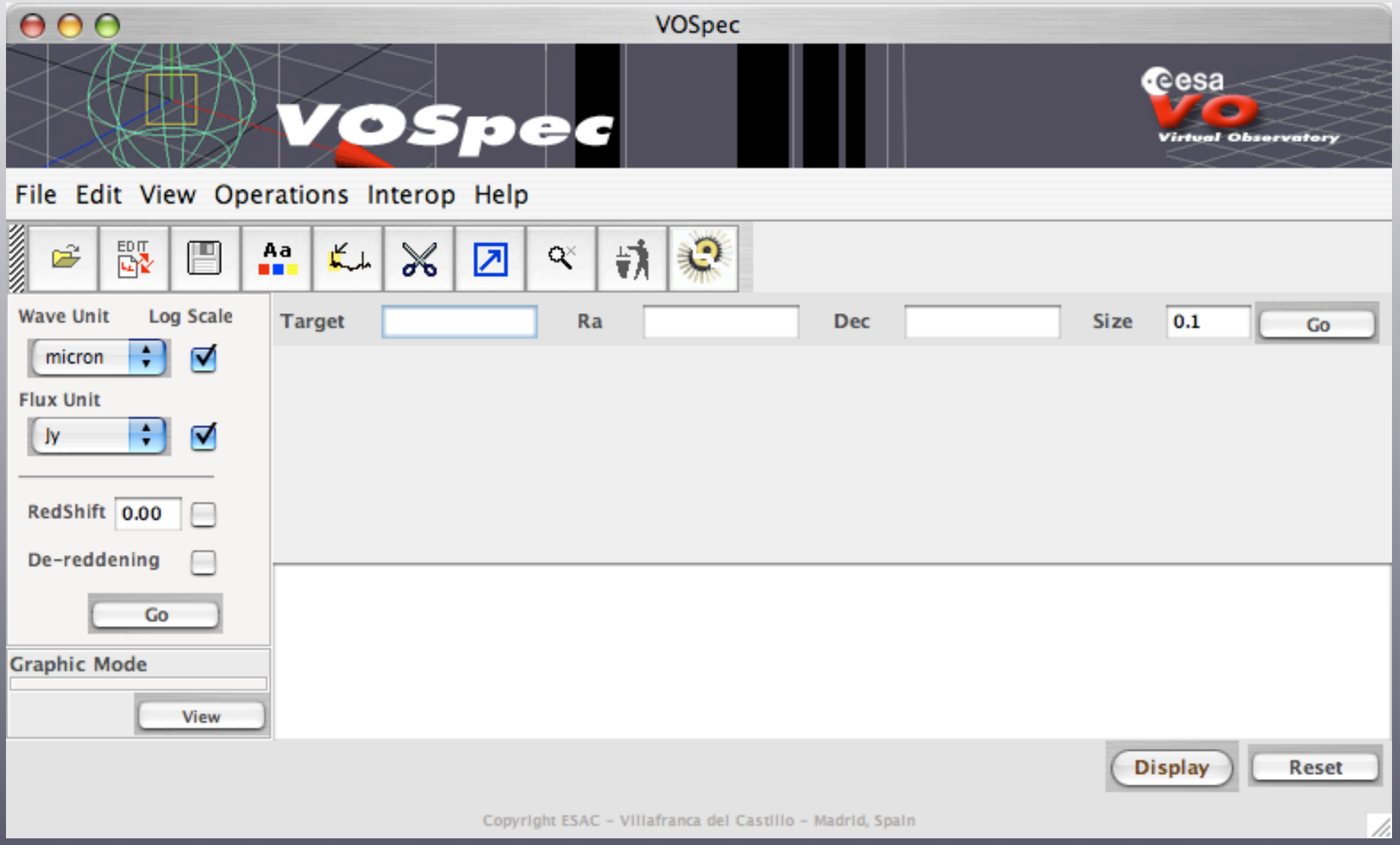
The DataScope should immediately return with a page that begins to organize the results. If the results have already been cached the form will show the previously queried data. If you are starting a new query it will gather results over a period of a few minutes. A status section at the top of the query result page shows the progress of the query, the number of resources found and how long ago the query was initiated. All other data is organized into tabbed panels below the status area You can jump to any of the panels at any time. Just click on the panels' tabs at the top of the page

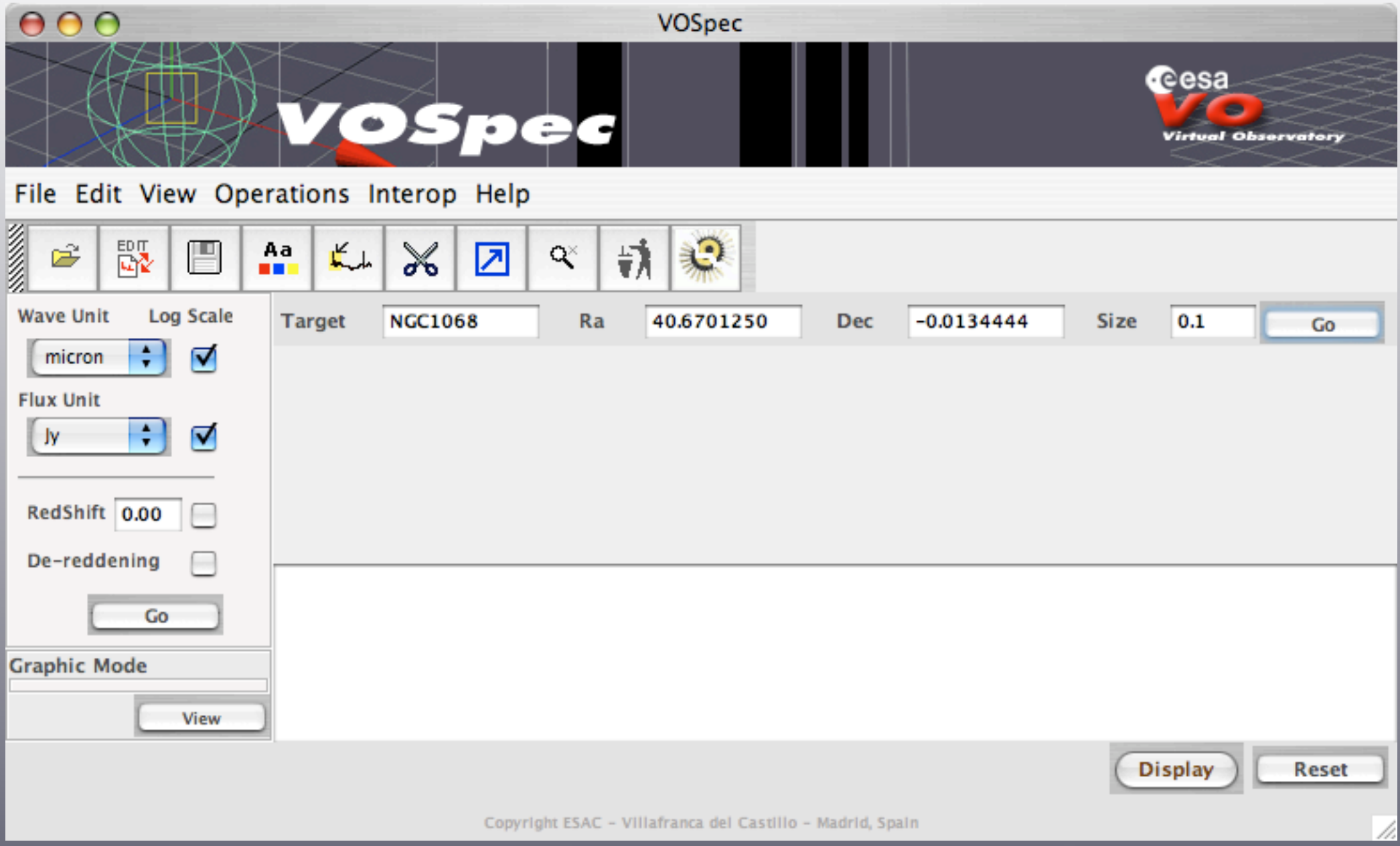
VOSpec

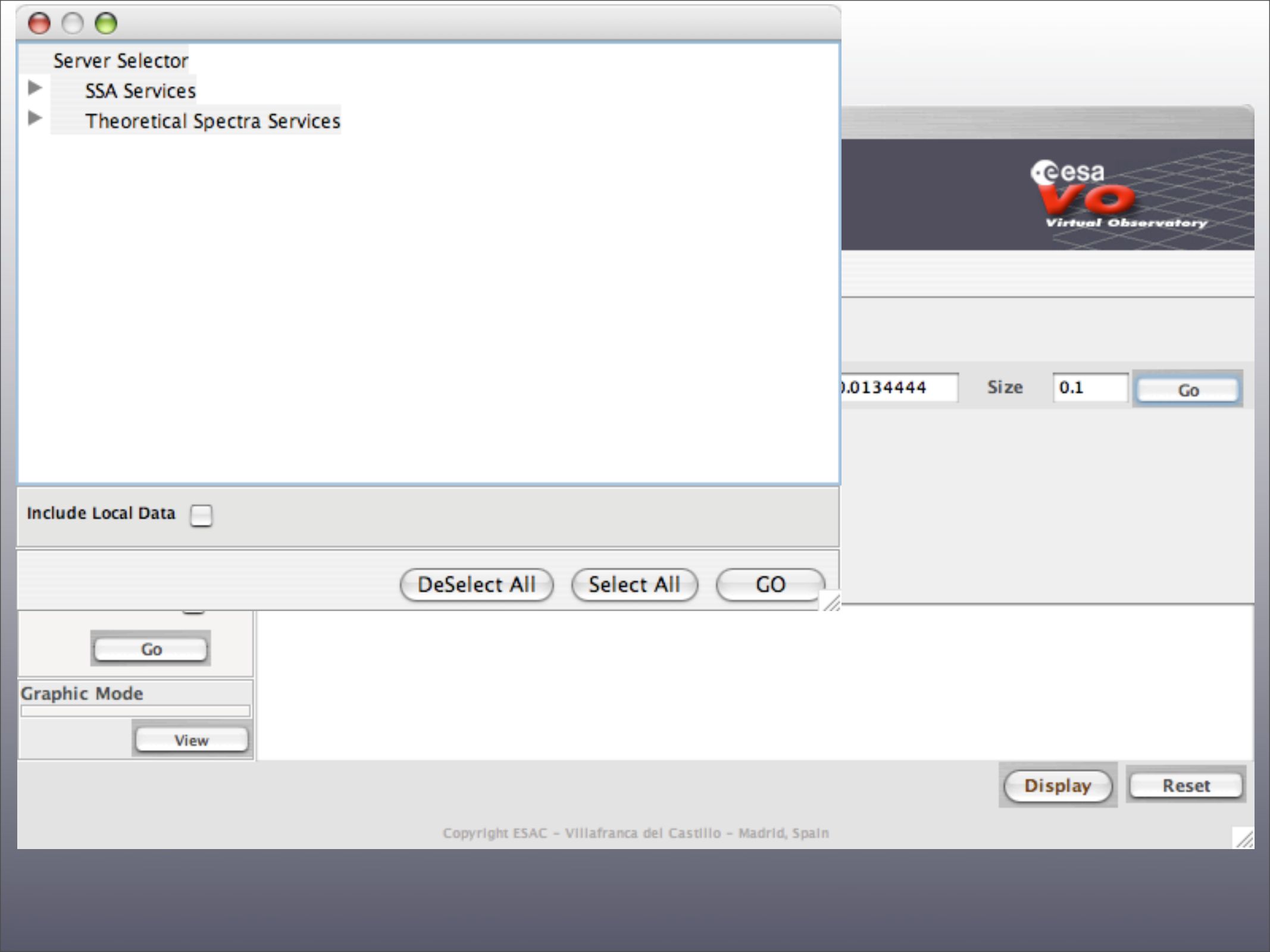
http://esavo.esa.int/vospec/

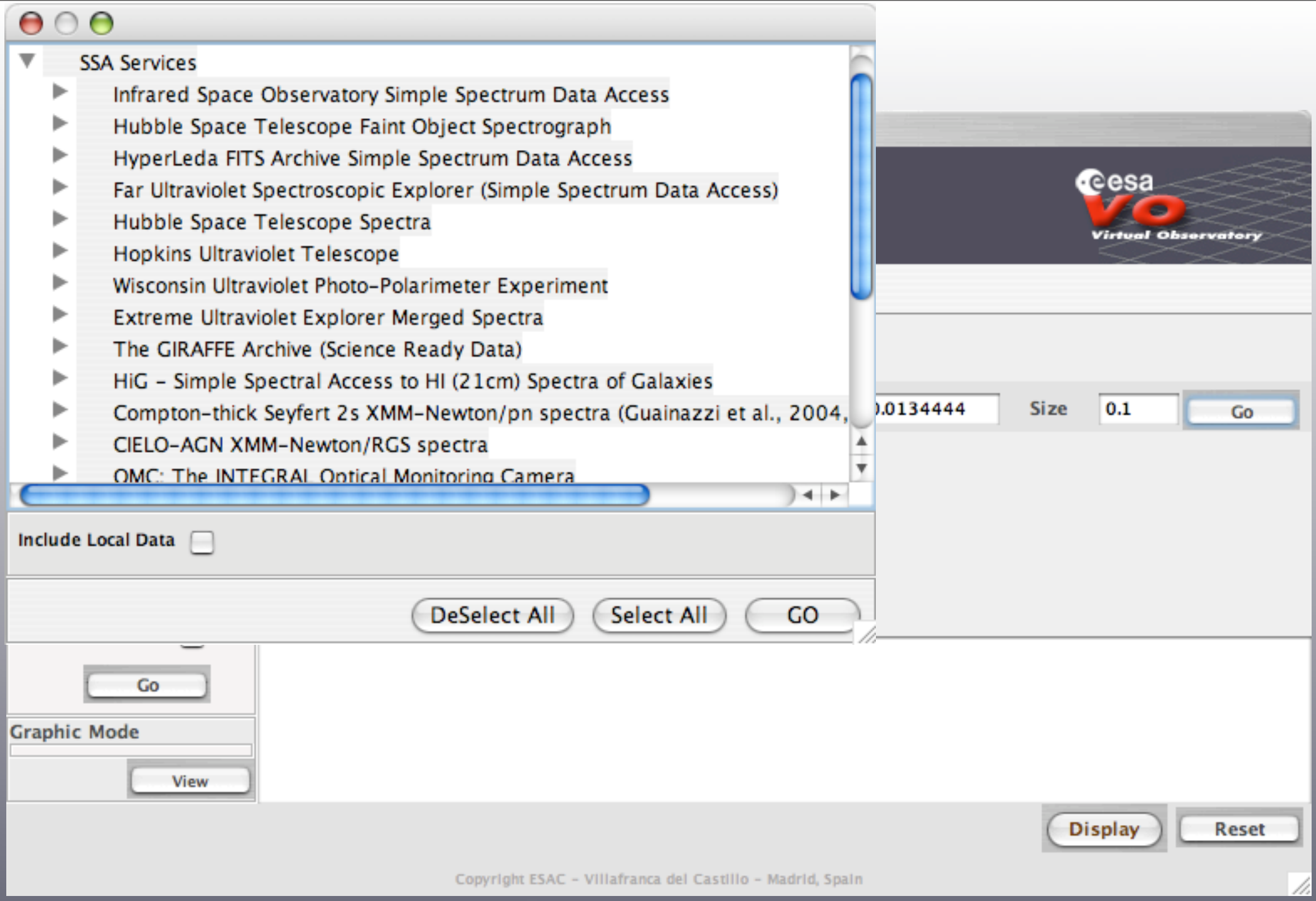
VOSpec

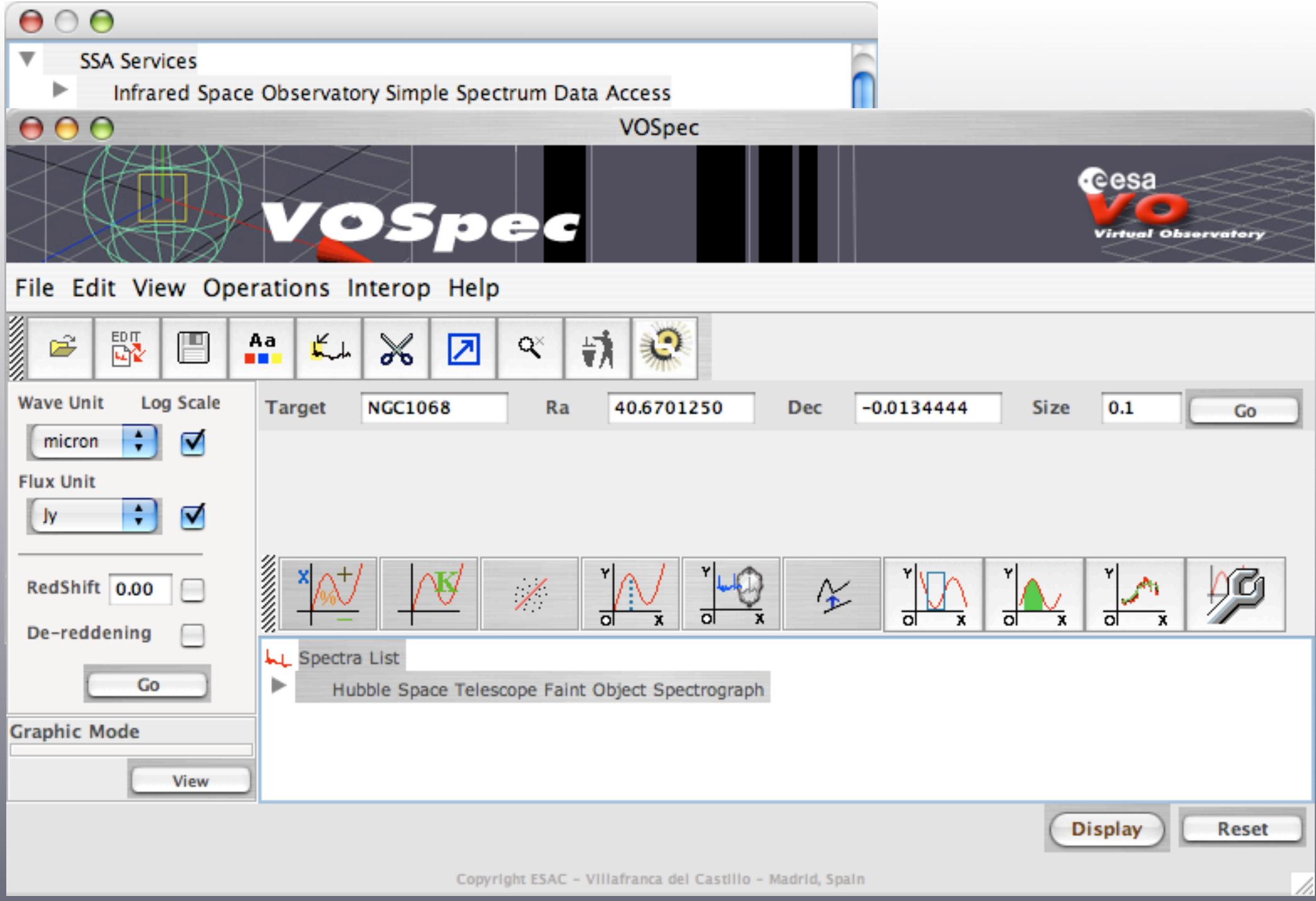
http://esavo.esa.int/vospec/

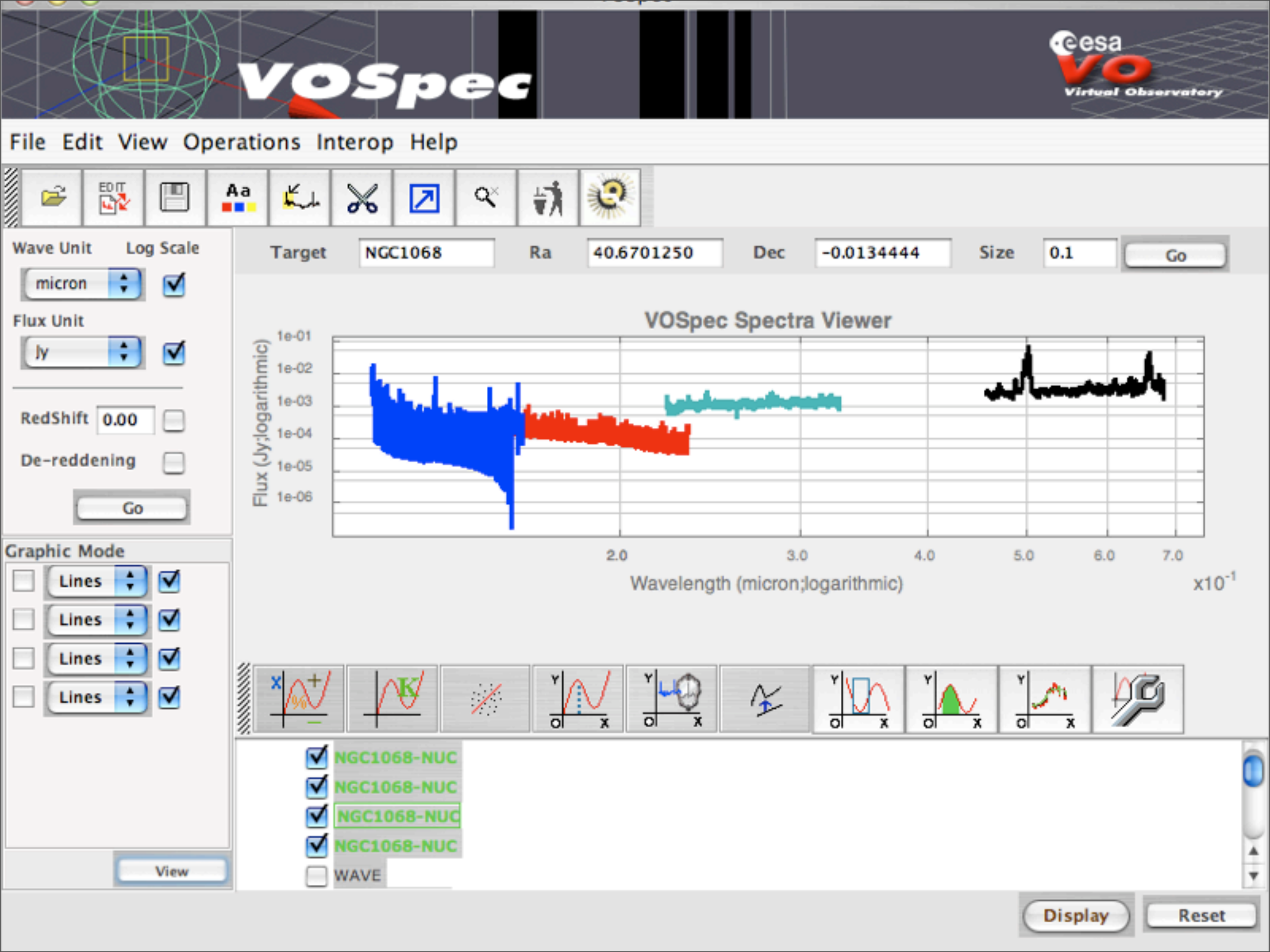


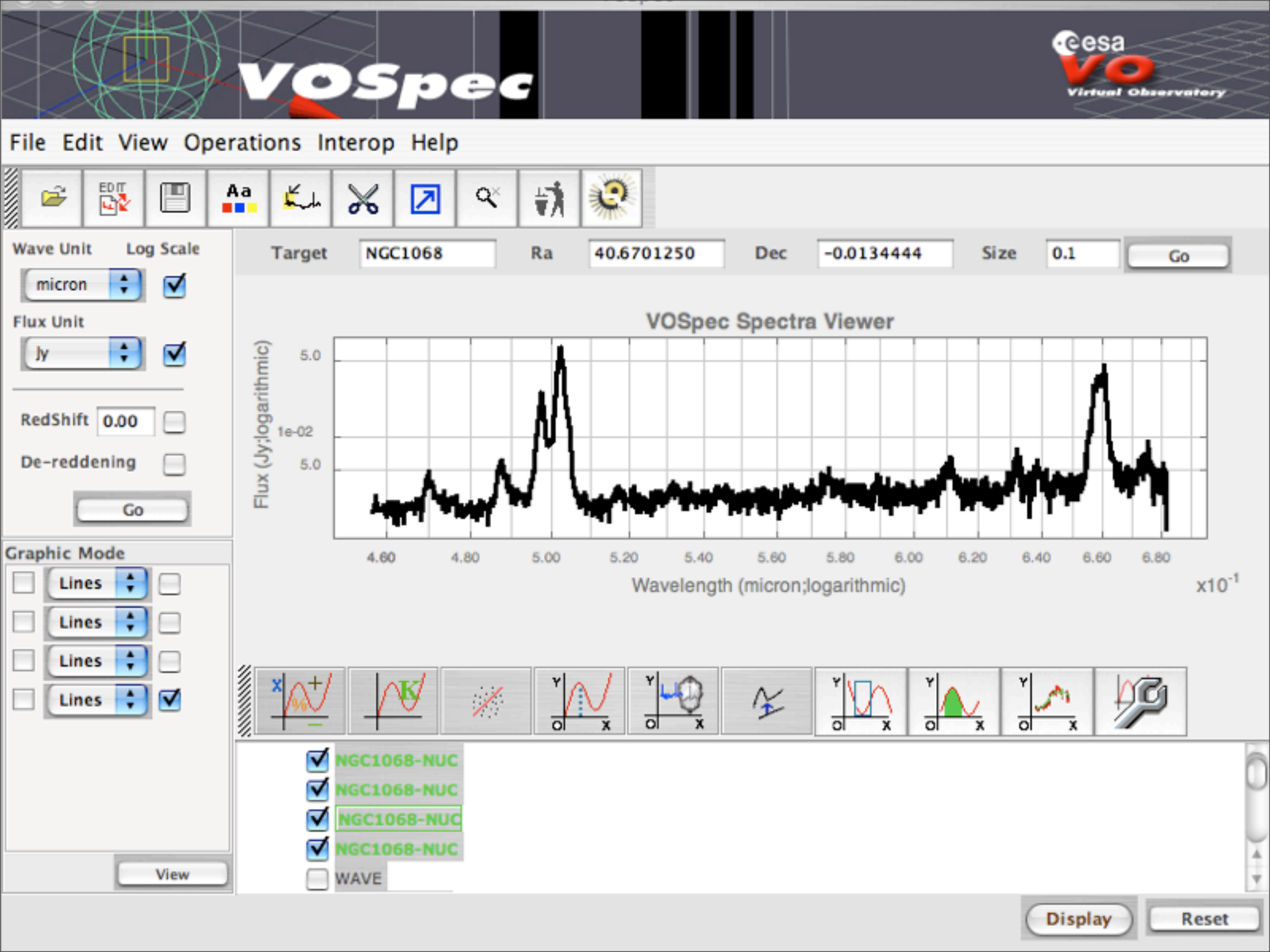

VOSpec
VOSpec
esa
Virtual Observatory
File Edit View Operations Interop Help
EDIT
Aa
Wave Unit
Log Scale
micron
Flux Unit
Jy
RedShift
0.00
De-reddening
Go
Graphic Mode
View
Target
NGC1068
Ra
40.6701250
Dec
-0.0134444
Size
0.1
Go
Display
Reset
Copyright ESAC - Villafranca del Castillo - Madrid, Spain


Server Selector
SSA Services
Theoretical Spectra Services
esa
VO
Virtual Observatory
.0134444
Size
0.1
Go
Include Local Data
DeSelect All
Select All
GO
Go
Graphic Mode
View
Display
Reset
Copyright ESAC - Villafranca del Castillo - Madrid, Spain


SSA Services
Infrared Space Observatory Simple Spectrum Data Access
Hubble Space Telescope Faint Object Spectrograph
HyperLeda FITS Archive Simple Spectrum Data Access
Far Ultraviolet Spectroscopic Explorer (Simple Spectrum Data Access)
Hubble Space Telescope Spectra
Hopkins Ultraviolet Telescope
Wisconsin Ultraviolet Photo-Polarimeter Experiment
Extreme Ultraviolet Explorer Merged Spectra
The GIRAFFE Archive (Science Ready Data)
HiG - Simple Spectral Access to HI (21cm) Spectra of Galaxies
Compton-thick Seyfert 2s XMM-Newton/pn spectra (Guainazzi et al., 2004,
CIELO-AGN XMM-Newton/RGS spectra
OMC: The INTEGRAL Optical Monitoring Camera
esa
Virtual Observatory
.0134444
Size
0.1
Go
Include Local Data
DeSelect All
Select All
GO
Go
Graphic Mode
View
Display
Reset
Copyright ESAC - Villafranca del Castillo - Madrid, Spain


SSA Services
Infrared Space Observatory Simple Spectrum Data Access
VOSpec
VOSpec
esa
Virtual Observatory
File Edit View Operations Interop Help
EDIT
Aa
Wave Unit
Log Scale
micron
Flux Unit
Jy
RedShift
0.00
De-reddening
Go
Graphic Mode
View
Target
NGC1068
Ra
40.6701250
Dec
-0.0134444
Size
0.1
Go
Spectra List
Hubble Space Telescope Faint Object Spectrograph
Display
Reset
Copyright ESAC - Villafranca del Castillo - Madrid, Spain


VOSpec
esa
VO
Virtual Observatory
File Edit View Operations Interop Help
Wave Unit
Log Scale
micron
Flux Unit
Jy
RedShift 0.00
De-reddening
Go
Graphic Mode
Lines
Lines
Lines
Lines
View
Target NGC1068
Ra 40.6701250
Dec -0.0134444
Size 0.1
Go
VOSpec Spectra Viewer
Flux (Jy;logarithmic)
1e-01
1e-02
1e-03
1e-04
1e-05
1e-06
2.0
3.0
4.0
5.0
6.0
7.0
Wavelength (micron;logarithmic)
x10-1
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
WAVE
Display
Reset


VOSpec
esa
Virtual Observatory
File Edit View Operations Interop Help
Wave Unit
Log Scale
micron
Flux Unit
Jy
RedShift 0.00
De-reddening
Go
Graphic Mode
Lines
Lines
Lines
Lines
View
Target NGC1068
Ra 40.6701250
Dec -0.0134444
Size 0.1
Go
VOSpec Spectra Viewer
Flux (Jy;logarithmic)
5.0
1e-02
5.0
4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80
Wavelength (micron;logarithmic)
x10-1
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
WAVE
Display
Reset

SPLAT

http://star-www.dur.ac.uk/~pdraper/splat/splat-vo/

SPLAT

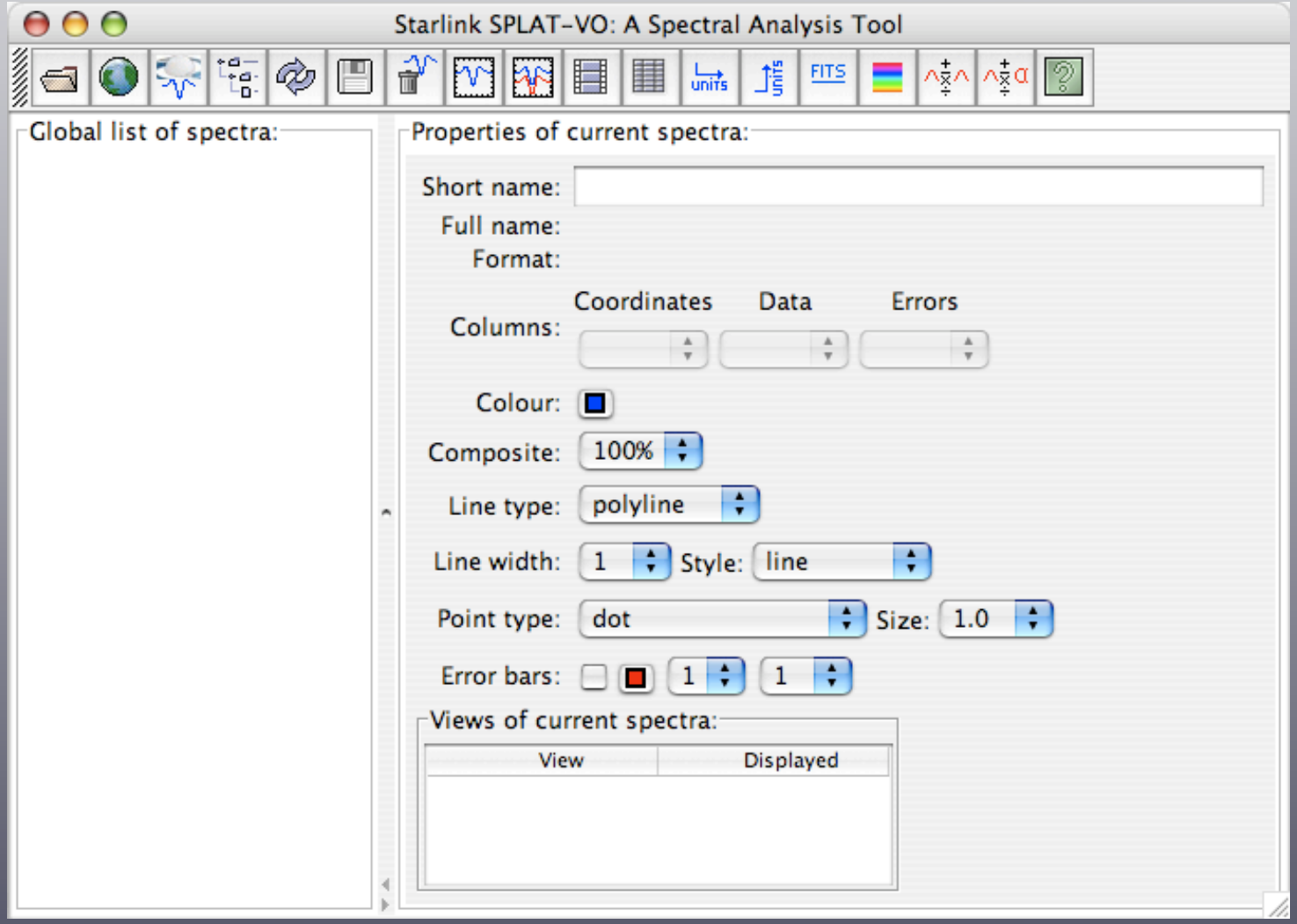
http://star-www.dur.ac.uk/~pdraper/splat/splat-vo/

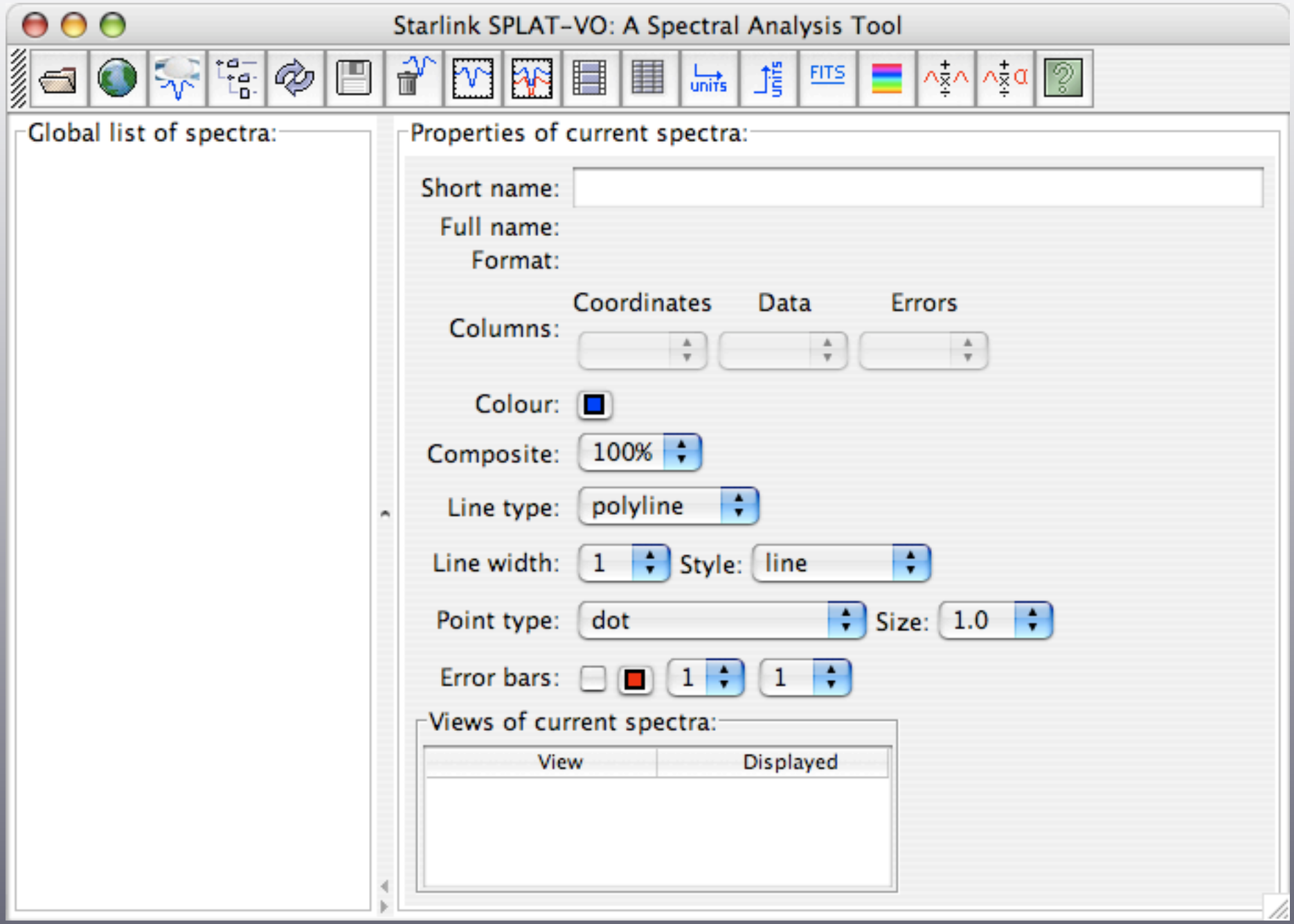
SPLAT: Starlink SPectraL Analysis Tool

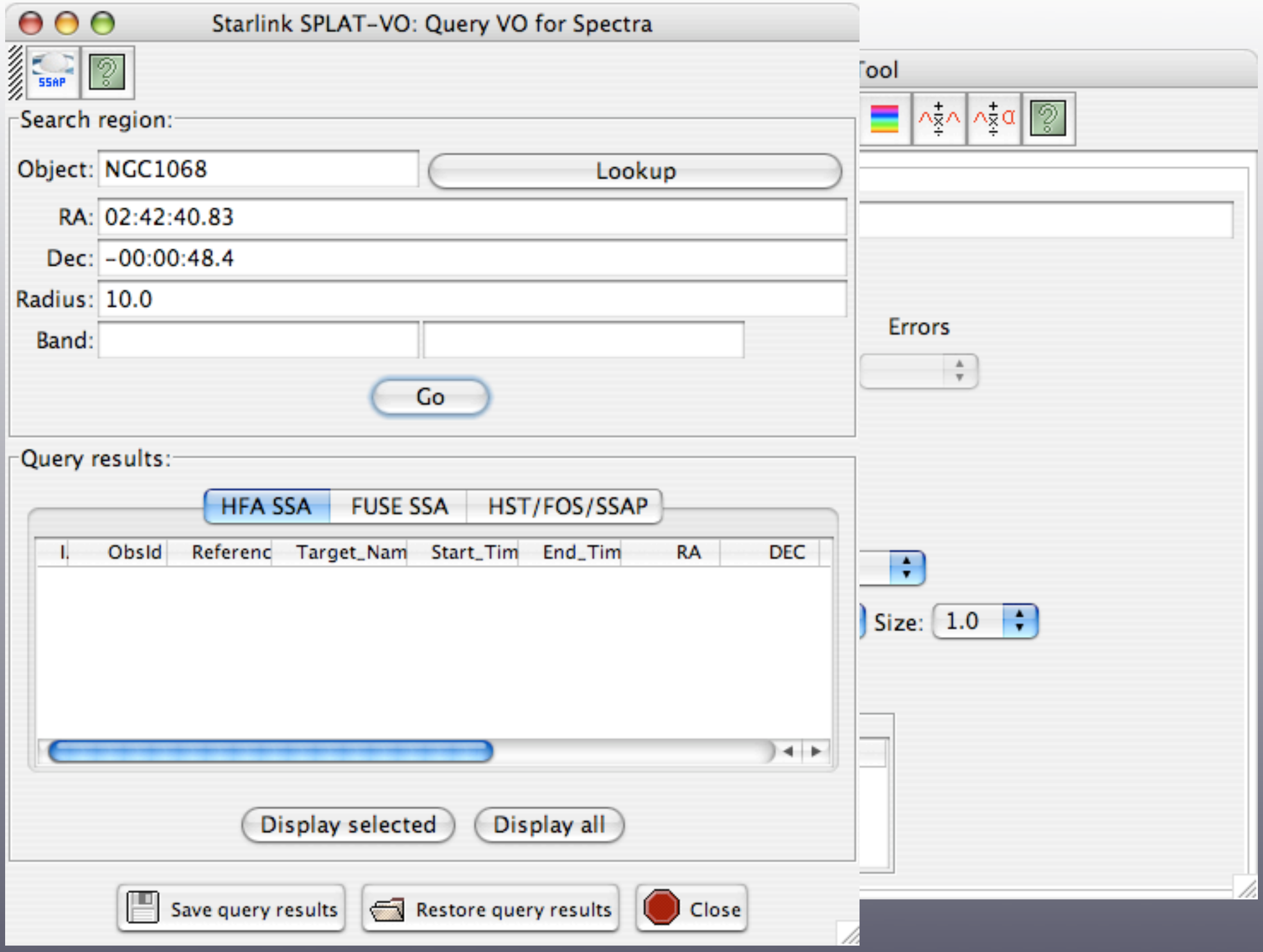
SPLAT

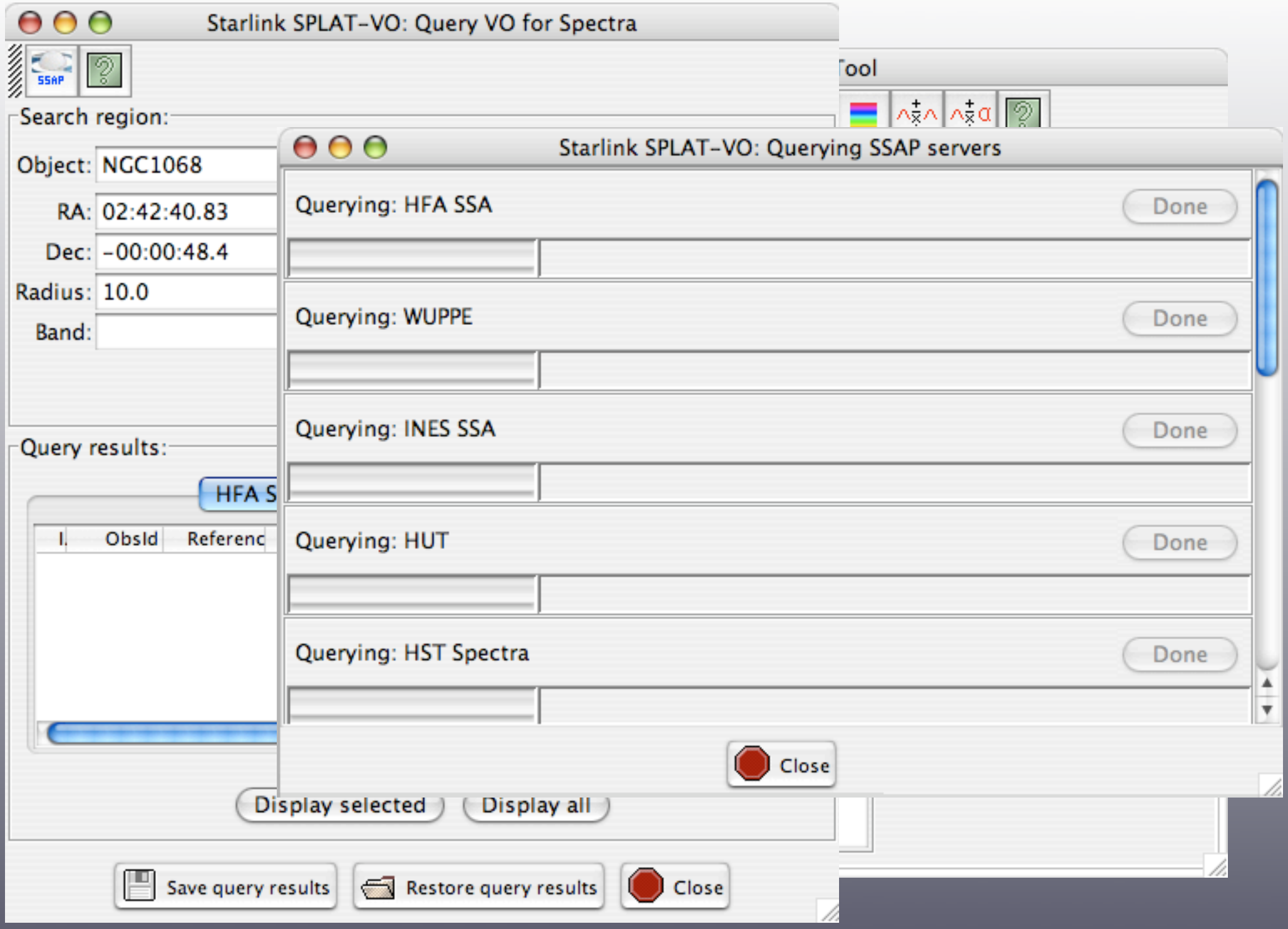
http://star-www.dur.ac.uk/~pdraper/splat/splat-vo/

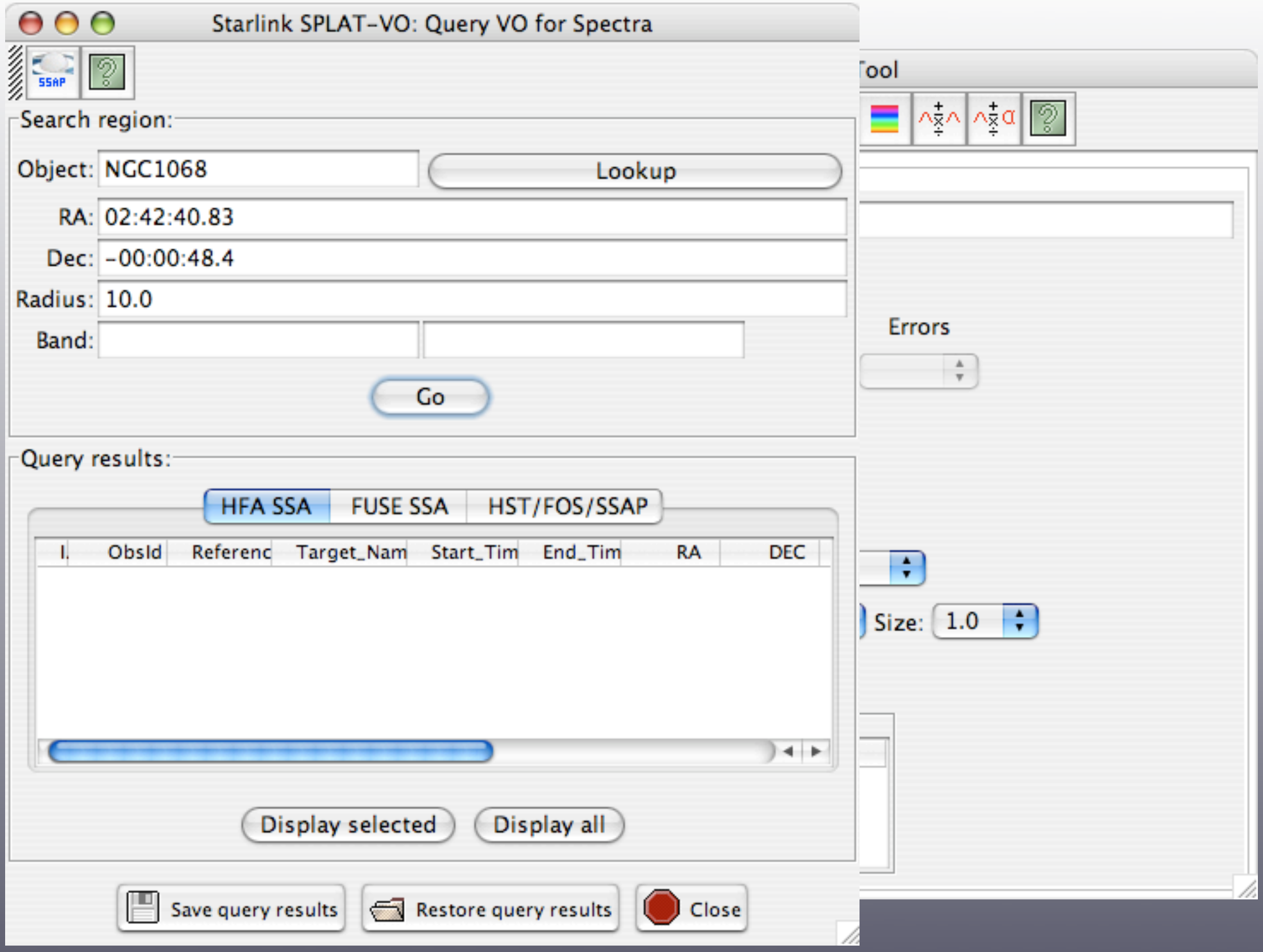
SPLAT: Starlink SPectraL Analysis Tool

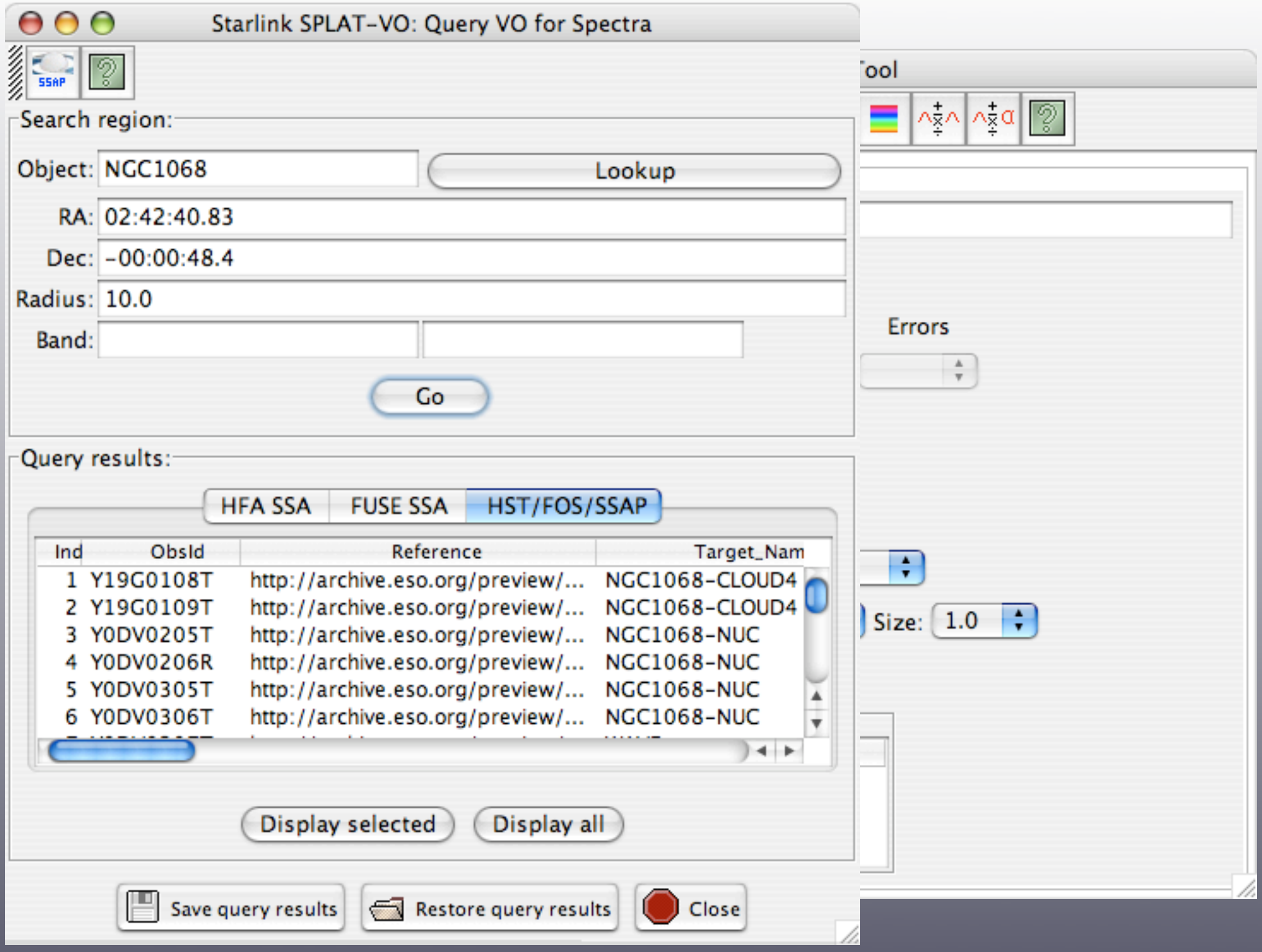


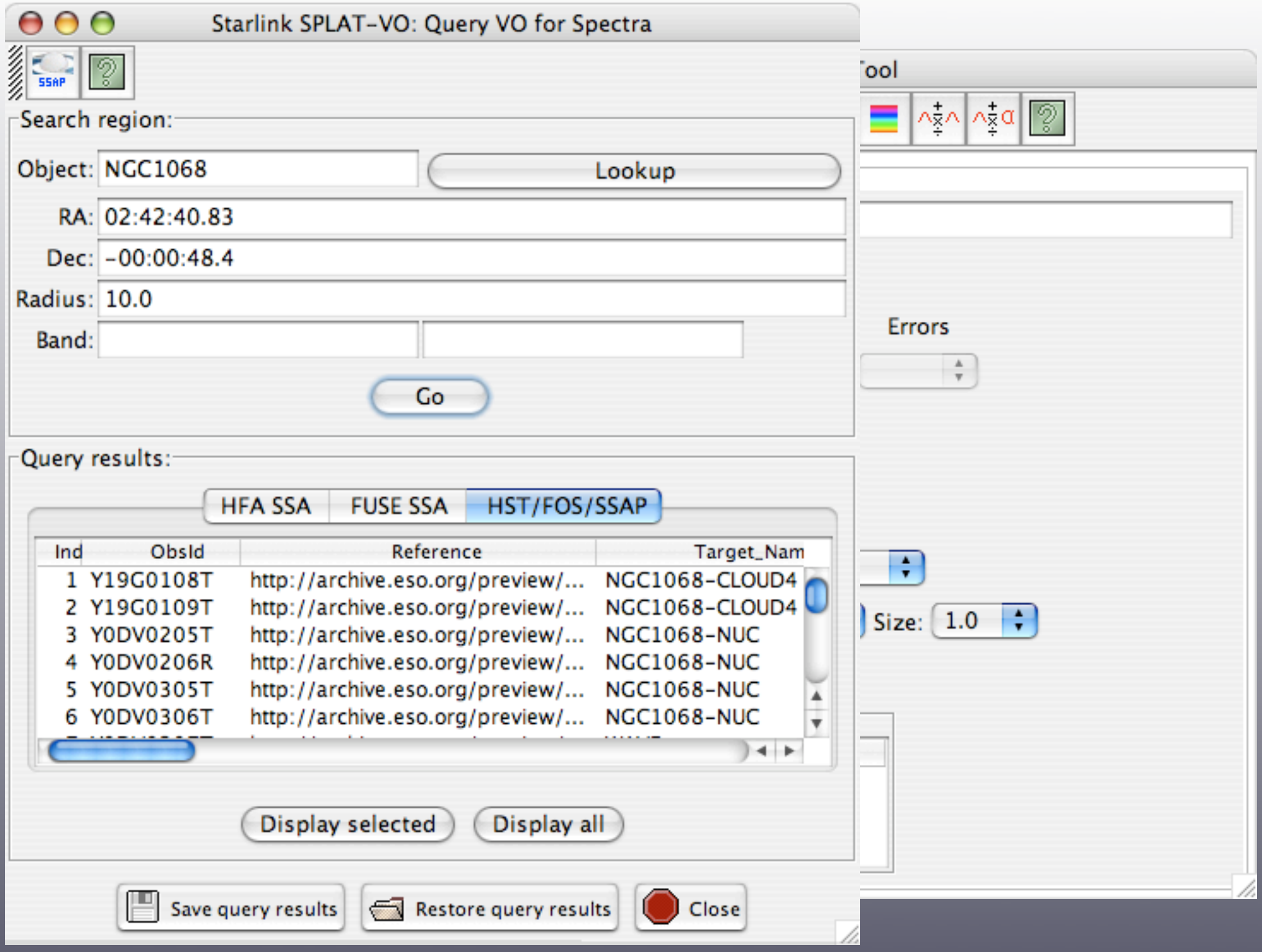

Starlink SPLAT-VO: A Spectral Analysis Tool
Global list of spectra:
Properties of current spectra:
Short name:
Full name:
Format:
Columns:
Coordinates
Data
Errors
Colour:
Composite:
100%
Line type:
polyline
Line width:
1
Style:
line
Point type:
dot
Size:
1.0
Error bars:
1
1
Views of current spectra:
View
Displayed

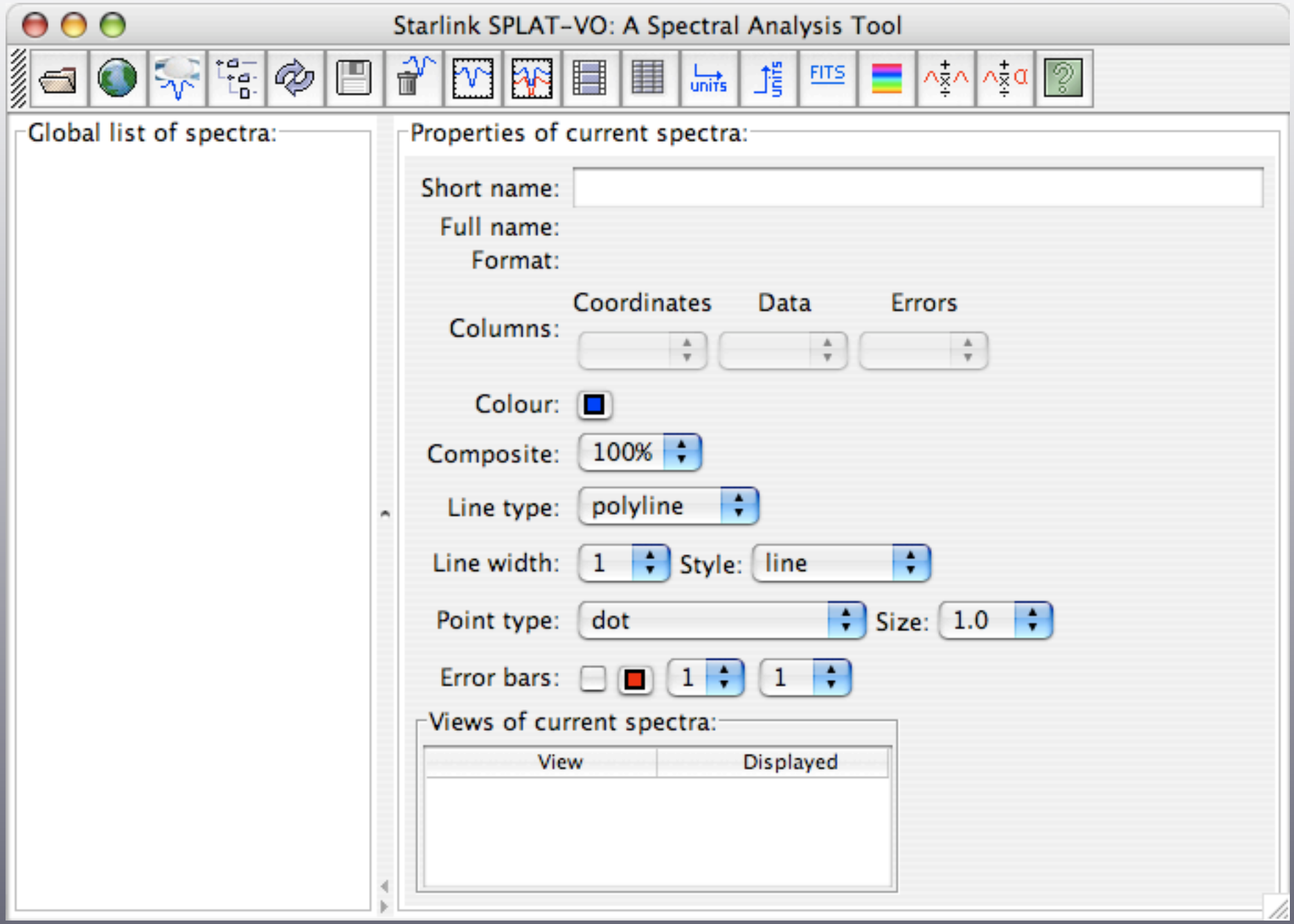

Starlink SPLAT-VO: Query VO for Spectra
SSAP
Search region:
Object: NGC1068
Lookup
RA: 02:42:40.83
Dec: -00:00:48.4
Radius: 10.0
Band:
Go
Query results:
HFA SSA
FUSE SSA
HST/FOS/SSAP
I.
ObsId
Referenc
Target_Nam
Start_Tim
End_Tim
RA
DEC
Display selected
Display all
Save query results
Restore query results
Close
Errors
Size: 1.0

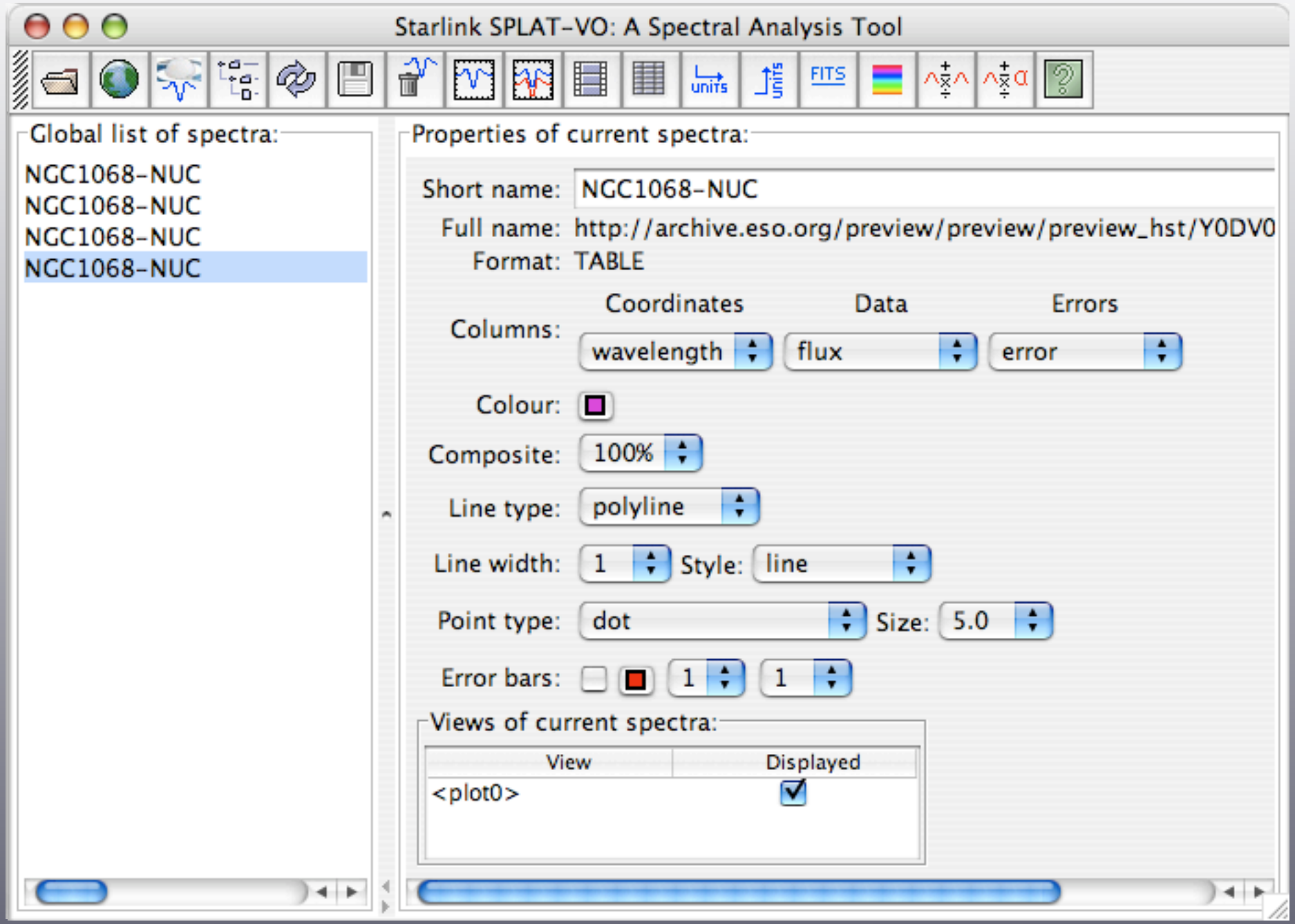

Starlink SPLAT-VO: Query VO for Spectra
SSAP
Search region:
Object: NGC1068
RA: 02:42:40.83
Dec: -00:00:48.4
Radius: 10.0
Band:
Query results:
HFA S
I.
ObsId
Referenc
Display selected
Display all
Save query results
Restore query results
Close
Starlink SPLAT-VO: Querying SSAP servers
Querying: HFA SSA
Done
Querying: WUPPE
Done
Querying: INES SSA
Done
Querying: HUT
Done
Querying: HST Spectra
Done
Close

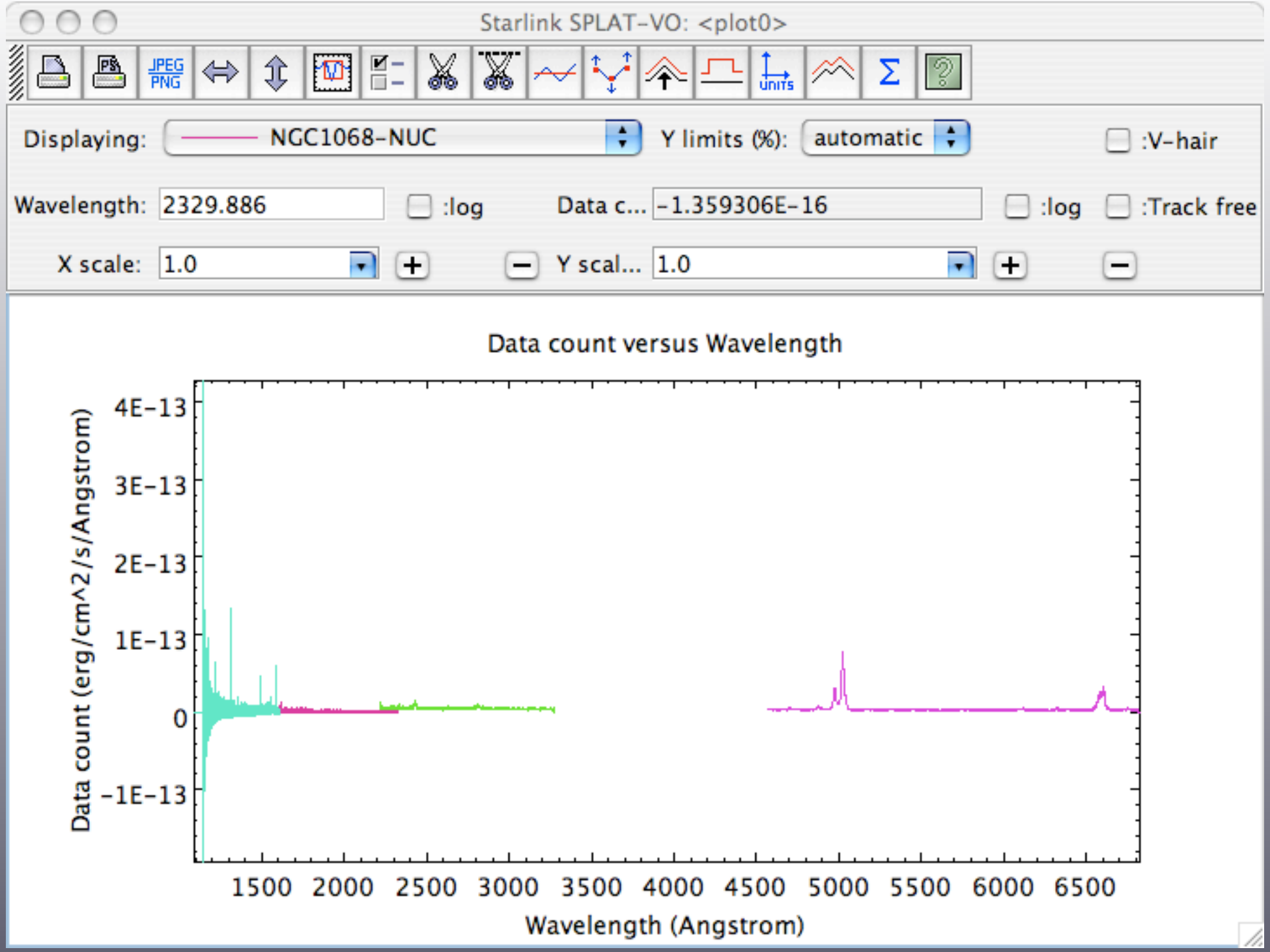

Starlink SPLAT-VO: Query VO for Spectra
SSAP
Search region:
Object: NGC1068
Lookup
RA: 02:42:40.83
Dec: -00:00:48.4
Radius: 10.0
Band:
Go
Query results:
HFA SSA
FUSE SSA
HST/FOS/SSAP
I.
ObsId
Referenc
Target_Nam
Start_Tim
End_Tim
RA
DEC
Display selected
Display all
Save query results
Restore query results
Close
Errors
Size: 1.0

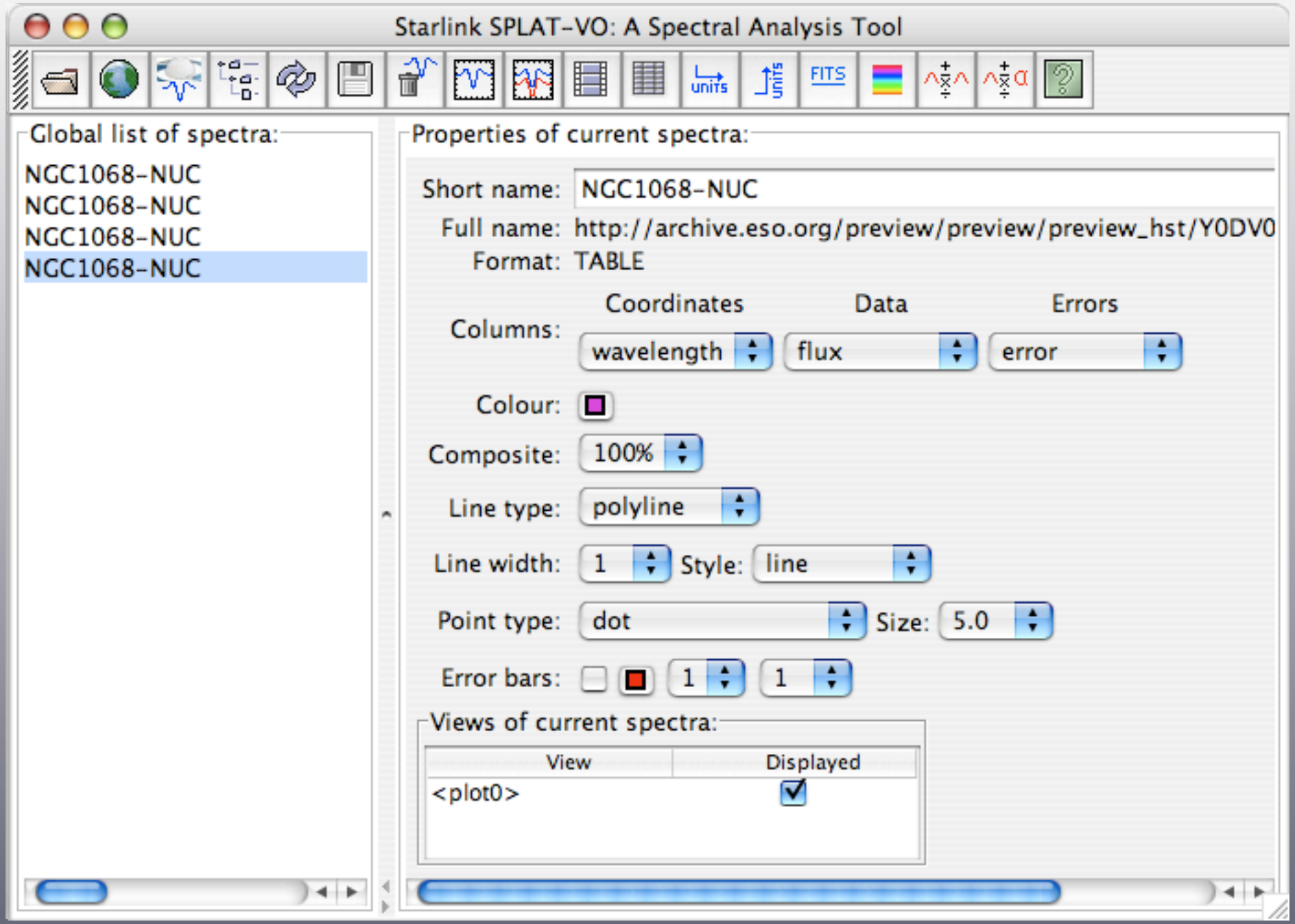

Starlink SPLAT-VO: Query VO for Spectra
SSAP
Search region:
Object: NGC1068
Lookup
RA: 02:42:40.83
Dec: -00:00:48.4
Radius: 10.0
Band:
Go
Query results:
HFA SSA
FUSE SSA
HST/FOS/SSAP
Ind ObsId Reference Target_Nam
1 Y19G0108T http://archive.eso.org/preview/... NGC1068-CLOUD4
2 Y19G0109T http://archive.eso.org/preview/... NGC1068-CLOUD4
3 Y0DV0205T http://archive.eso.org/preview/... NGC1068-NUC
4 Y0DV0206R http://archive.eso.org/preview/... NGC1068-NUC
5 Y0DV0305T http://archive.eso.org/preview/... NGC1068-NUC
6 Y0DV0306T http://archive.eso.org/preview/... NGC1068-NUC
Display selected
Display all
Save query results
Restore query results
Close
ool
Errors
Size: 1.0

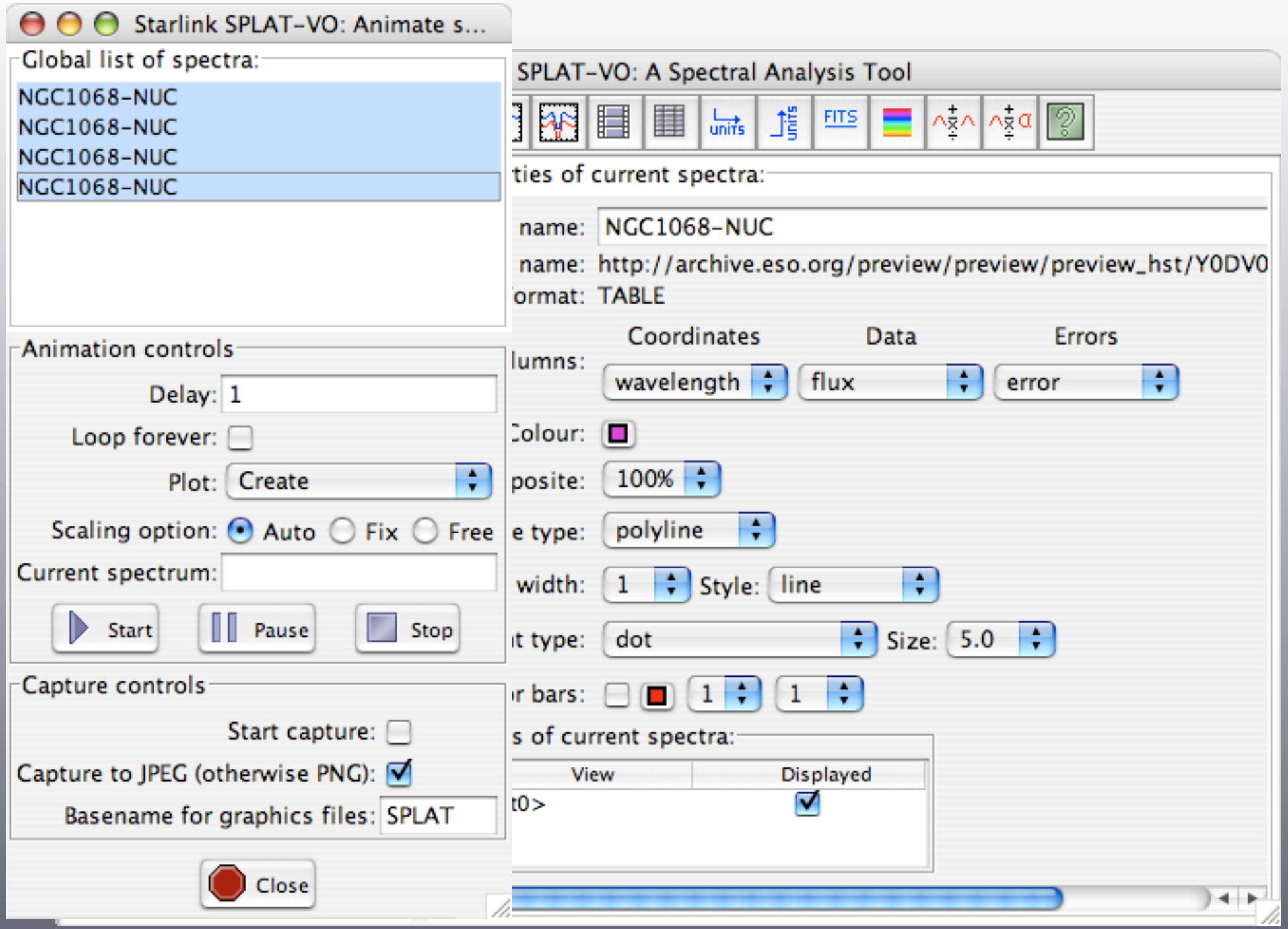

Starlink SPLAT-VO: Query VO for Spectra
SSAP
Search region:
Object: NGC1068
Lookup
RA: 02:42:40.83
Dec: -00:00:48.4
Radius: 10.0
Band:
Go
Query results:
HFA SSA
FUSE SSA
HST/FOS/SSAP
Ind ObsId Reference Target_Nam
1 Y19G0108T http://archive.eso.org/preview/... NGC1068-CLOUD4
2 Y19G0109T http://archive.eso.org/preview/... NGC1068-CLOUD4
3 Y0DV0205T http://archive.eso.org/preview/... NGC1068-NUC
4 Y0DV0206R http://archive.eso.org/preview/... NGC1068-NUC
5 Y0DV0305T http://archive.eso.org/preview/... NGC1068-NUC
6 Y0DV0306T http://archive.eso.org/preview/... NGC1068-NUC
Display selected
Display all
Save query results
Restore query results
Close
ool
Errors
Size: 1.0

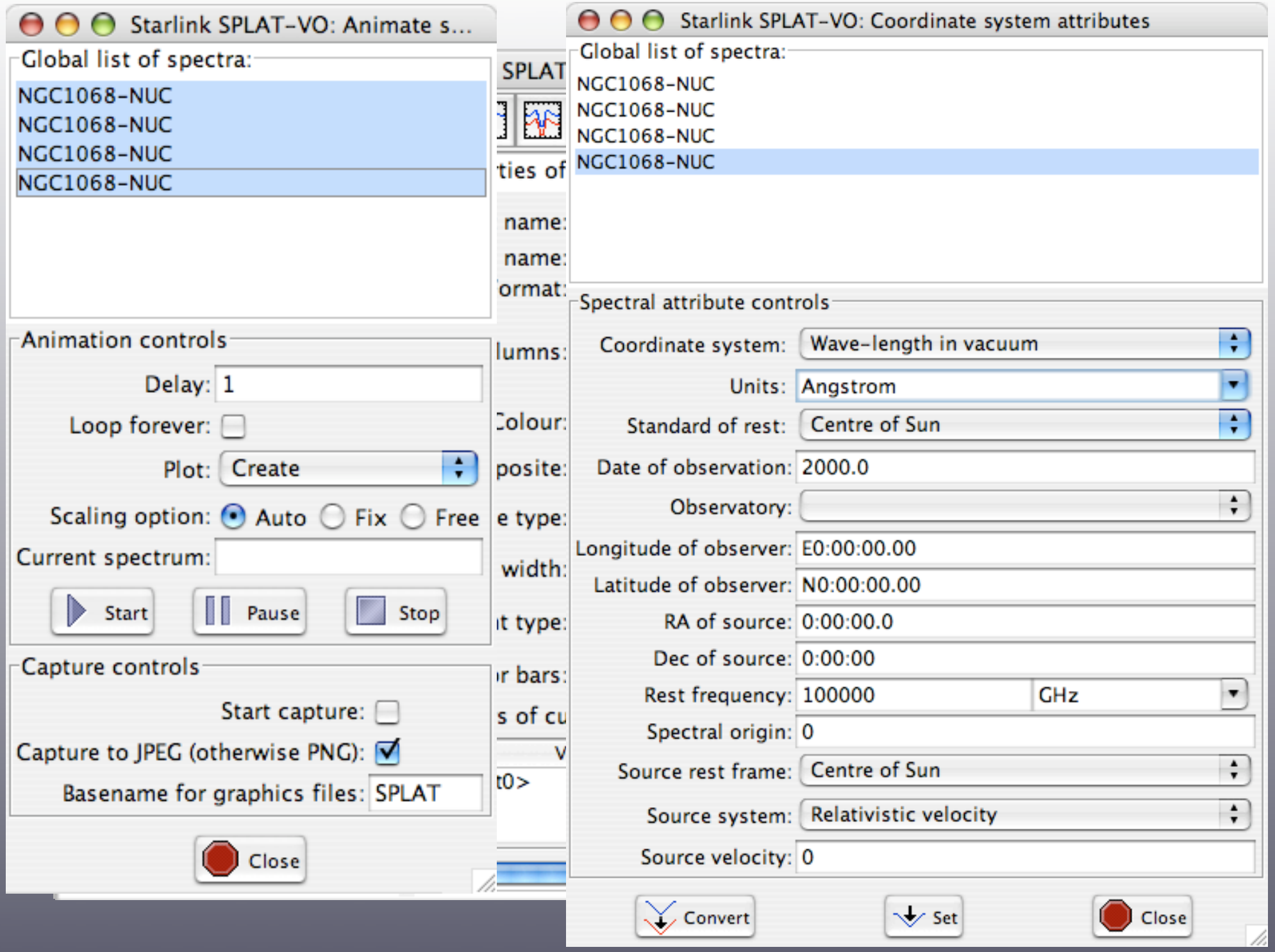

Starlink SPLAT-VO: A Spectral Analysis Tool
Global list of spectra:
Properties of current spectra:
Short name:
Full name:
Format:
Columns:
Coordinates
Data
Errors
Colour:
Composite:
100%
Line type:
polyline
Line width:
1
Style:
line
Point type:
dot
Size:
1.0
Error bars:
1
1
Views of current spectra:
View
Displayed


Starlink SPLAT-VO: A Spectral Analysis Tool
Global list of spectra:
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
Properties of current spectra:
Short name: NGC1068-NUC
Full name: http://archive.eso.org/preview/preview/preview_hst/Y0DV0
Format: TABLE
Columns:
Coordinates
Data
Errors
wavelength
flux
error
Colour:
Composite: 100%
Line type: polyline
Line width: 1
Style: line
Point type: dot
Size: 5.0
Error bars:
1
1
Views of current spectra:
View
Displayed
<plot0>


Starlink SPLAT-VO: <plot0>
JPEG
PNG
PS
UNITS
Displaying:
NGC1068-NUC
Y limits (%):
automatic
:V-hair
Wavelength:
2329.886
:log
Data c...
-1.359306E-16
:log
:Track free
X scale:
1.0
Y scal...
1.0
Data count versus Wavelength
Data count (erg/cm^2/s/Angstrom)
4E-13
3E-13
2E-13
1E-13
0
-1E-13
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
Wavelength (Angstrom)


Starlink SPLAT-VO: A Spectral Analysis Tool
Global list of spectra:
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
Properties of current spectra:
Short name: NGC1068-NUC
Full name: http://archive.eso.org/preview/preview/preview_hst/Y0DV0
Format: TABLE
Columns:
Coordinates
Data
Errors
wavelength
flux
error
Colour:
Composite: 100%
Line type: polyline
Line width: 1
Style: line
Point type: dot
Size: 5.0
Error bars:
1
1
Views of current spectra:
View
Displayed
<plot0>


Starlink SPLAT-VO: Animate s...
Global list of spectra:
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
Animation controls
Delay: 1
Loop forever:
Plot: Create
Scaling option: Auto Fix Free
Current spectrum:
Start
Pause
Stop
Capture controls
Start capture:
Capture to JPEG (otherwise PNG):
Basename for graphics files: SPLAT
Close
SPLAT-VO: A Spectral Analysis Tool
units
units
FITS
ties of current spectra:
name: NGC1068-NUC
name: http://archive.eso.org/preview/preview/preview_hst/Y0DV0
ormat: TABLE
Coordinates
Data
Errors
lumns:
wavelength
flux
error
olour:
posite: 100%
e type: polyline
width: 1
Style: line
t type: dot
Size: 5.0
r bars:
1
1
s of current spectra:
View
Displayed
t0>

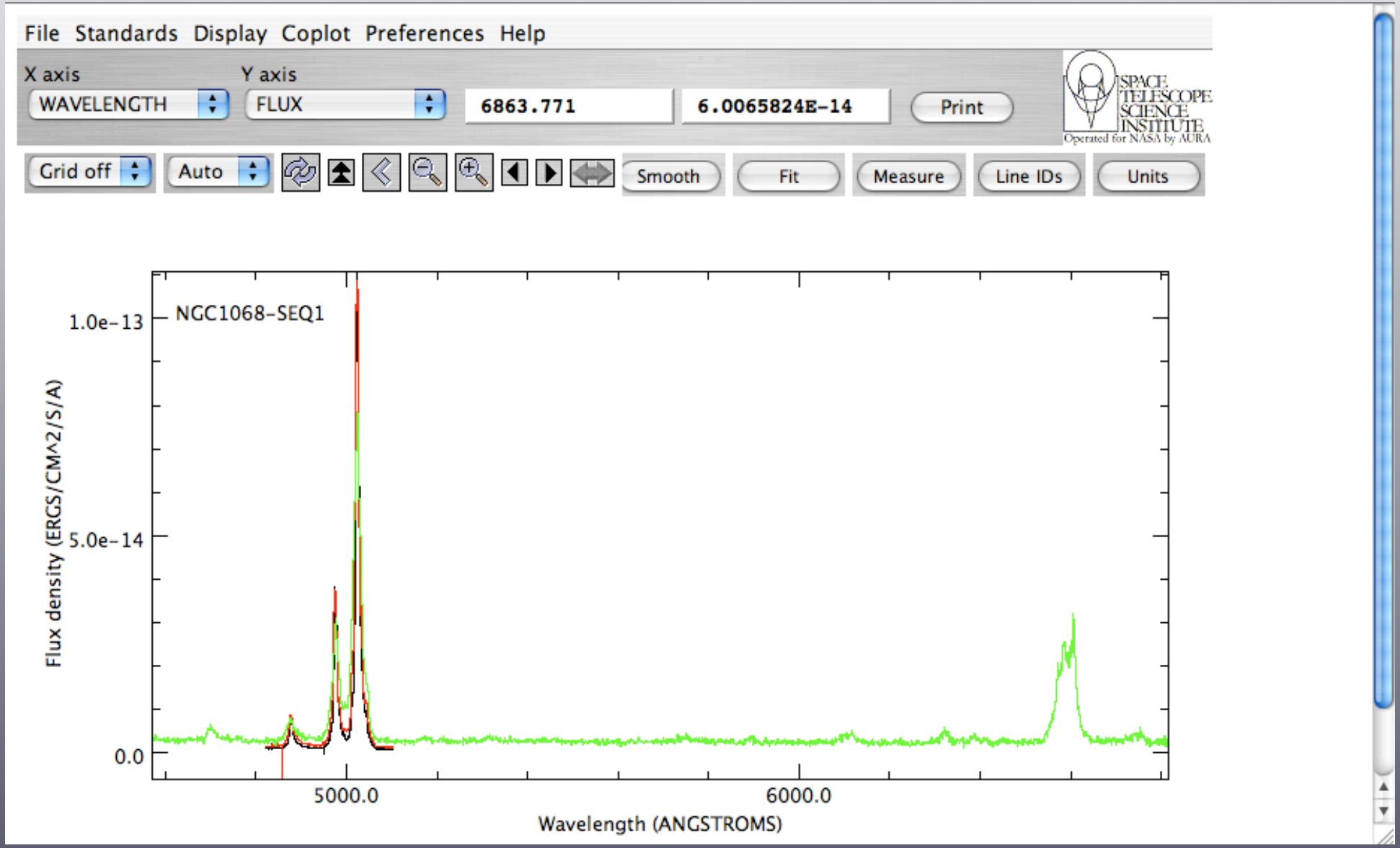

Starlink SPLAT-VO: Animate s...
Global list of spectra:
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
Animation controls
Delay: 1
Loop forever:
Plot: Create
Scaling option: Auto Fix Free
Current spectrum:
Start
Pause
Stop
Capture controls
Start capture:
Capture to JPEG (otherwise PNG):
Basename for graphics files: SPLAT
Close
Starlink SPLAT-VO: Coordinate system attributes
Global list of spectra:
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
NGC1068-NUC
Spectral attribute controls
Coordinate system: Wave-length in vacuum
Units: Angstrom
Standard of rest: Centre of Sun
Date of observation: 2000.0
Observatory:
Longitude of observer: E0:00:00.00
Latitude of observer: N0:00:00.00
RA of source: 0:00:00.0
Dec of source: 0:00:00
Rest frequency: 100000 GHz
Spectral origin: 0
Source rest frame: Centre of Sun
Source system: Relativistic velocity
Source velocity: 0
Convert
Set
Close

Specview

http://specview.stsci.edu/applet/specview_applet_run.html

Specview

http://specview.stsci.edu/applet/specview_applet_run.html



Topcat

http://www.star.bris.ac.uk/~mbt/topcat/

Topcat

http://www.star.bris.ac.uk/~mbt/topcat/

TOPCAT: Tool for OPerations on Catalogues And Tables

Topcat

http://www.star.bris.ac.uk/~mbt/topcat/

TOPCAT: Tool for OPerations on Catalogues And Tables

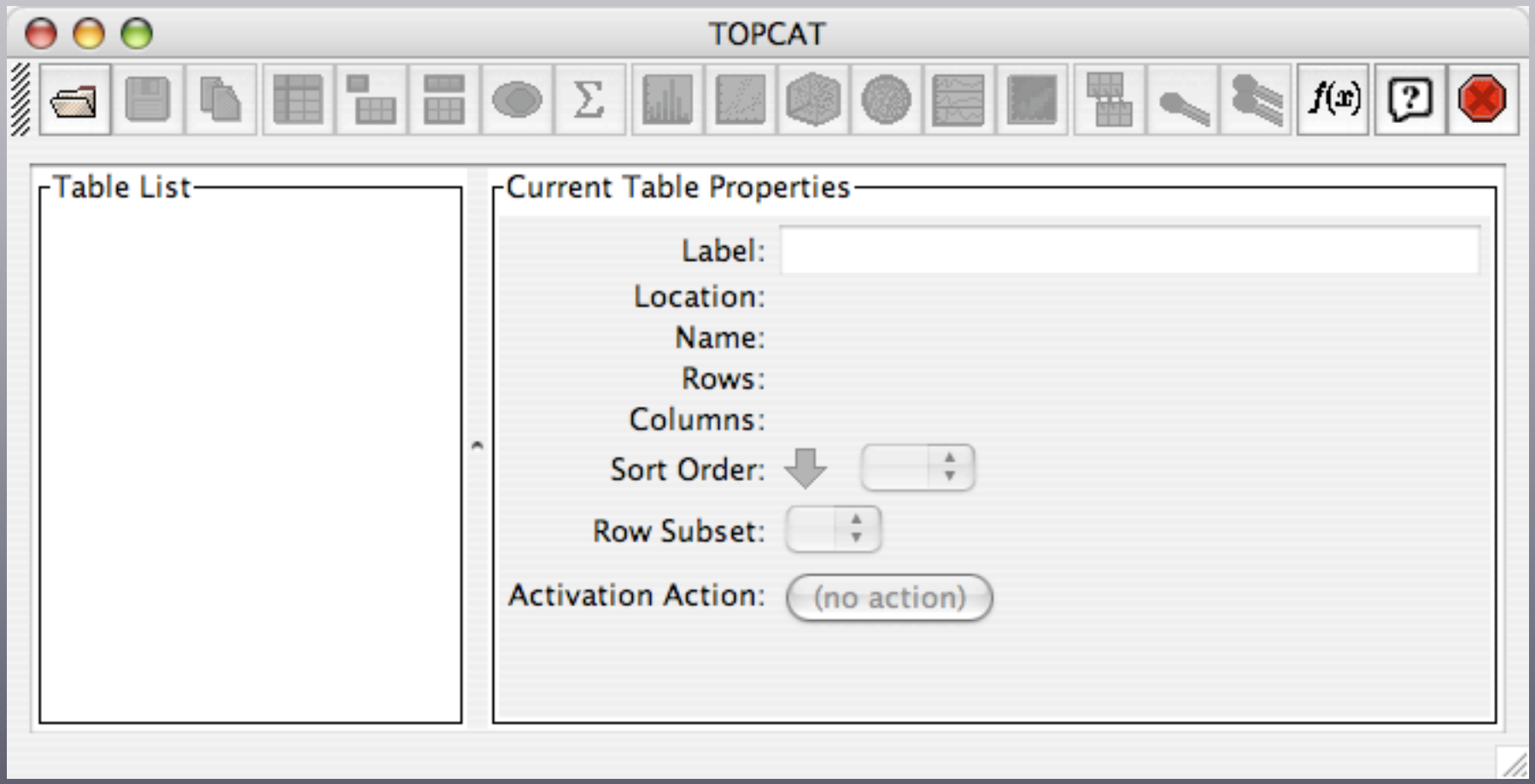
TOPCAT is an interactive graphical viewer and editor for tabular data.

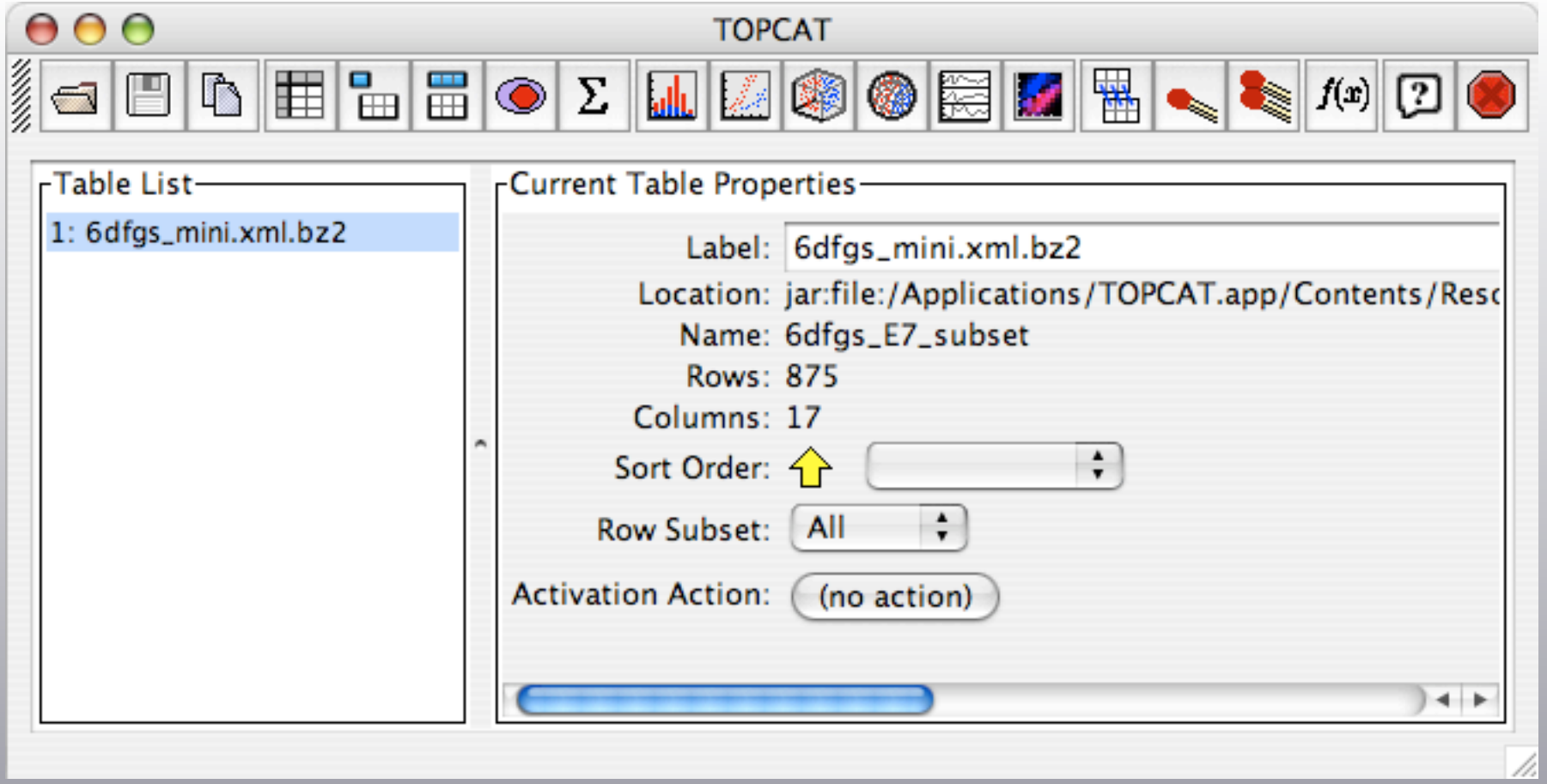
Topcat

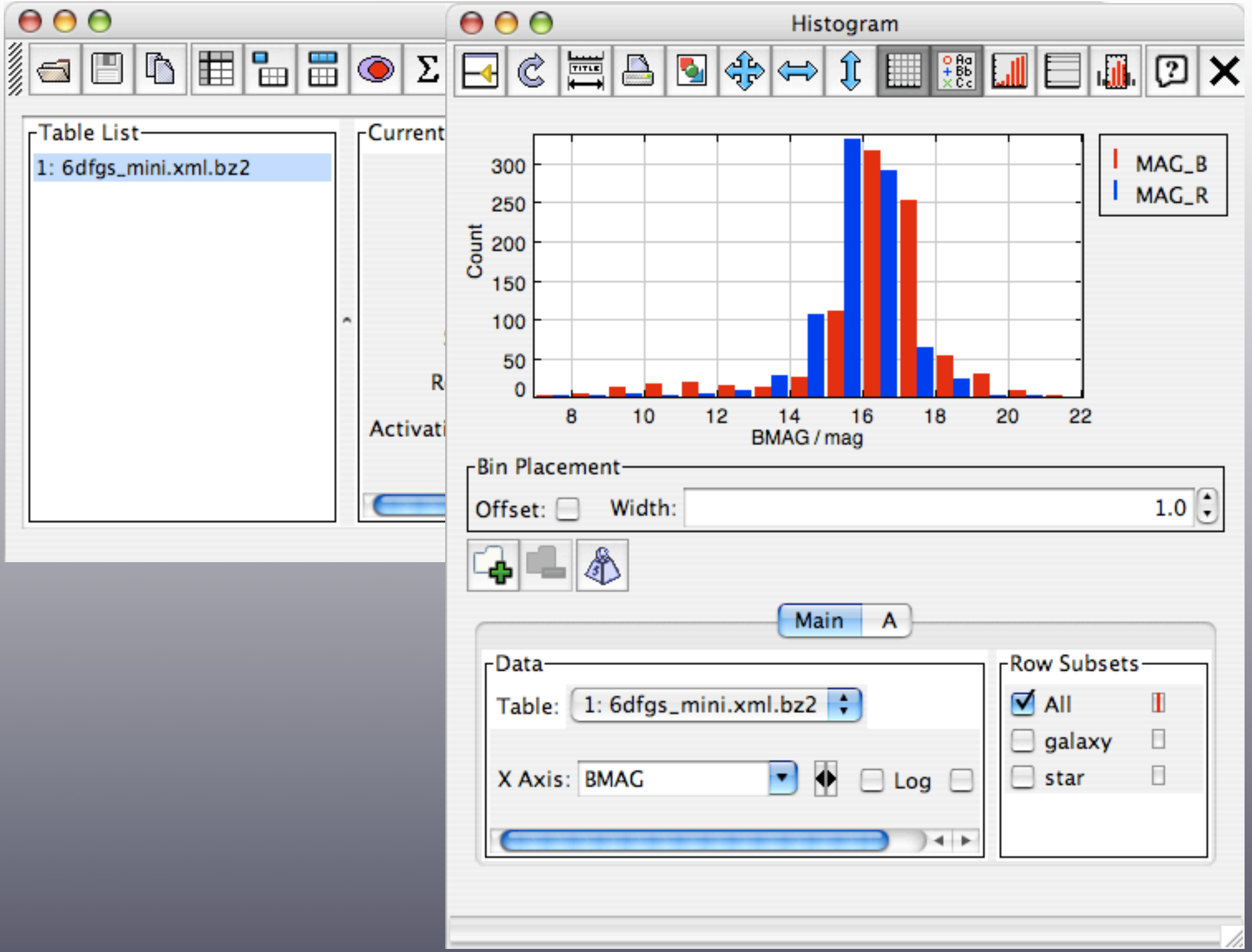
http://www.star.bris.ac.uk/~mbt/topcat/

TOPCAT: Tool for OPerations on Catalogues And Tables

TOPCAT is an interactive graphical viewer and editor for tabular data.




TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)


Histogram
Table List
1: 6dfgs_mini.xml.bz2
Current
Activati
Count
300
250
200
150
100
50
0
8
10
12
14
16
18
20
22
BMAG / mag
MAG_B
MAG_R
Bin Placement
Offset:
Width:
1.0
Main
A
Data
Table:
1: 6dfgs_mini.xml.bz2
X Axis:
BMAG
Log
Row Subsets
All
galaxy
star

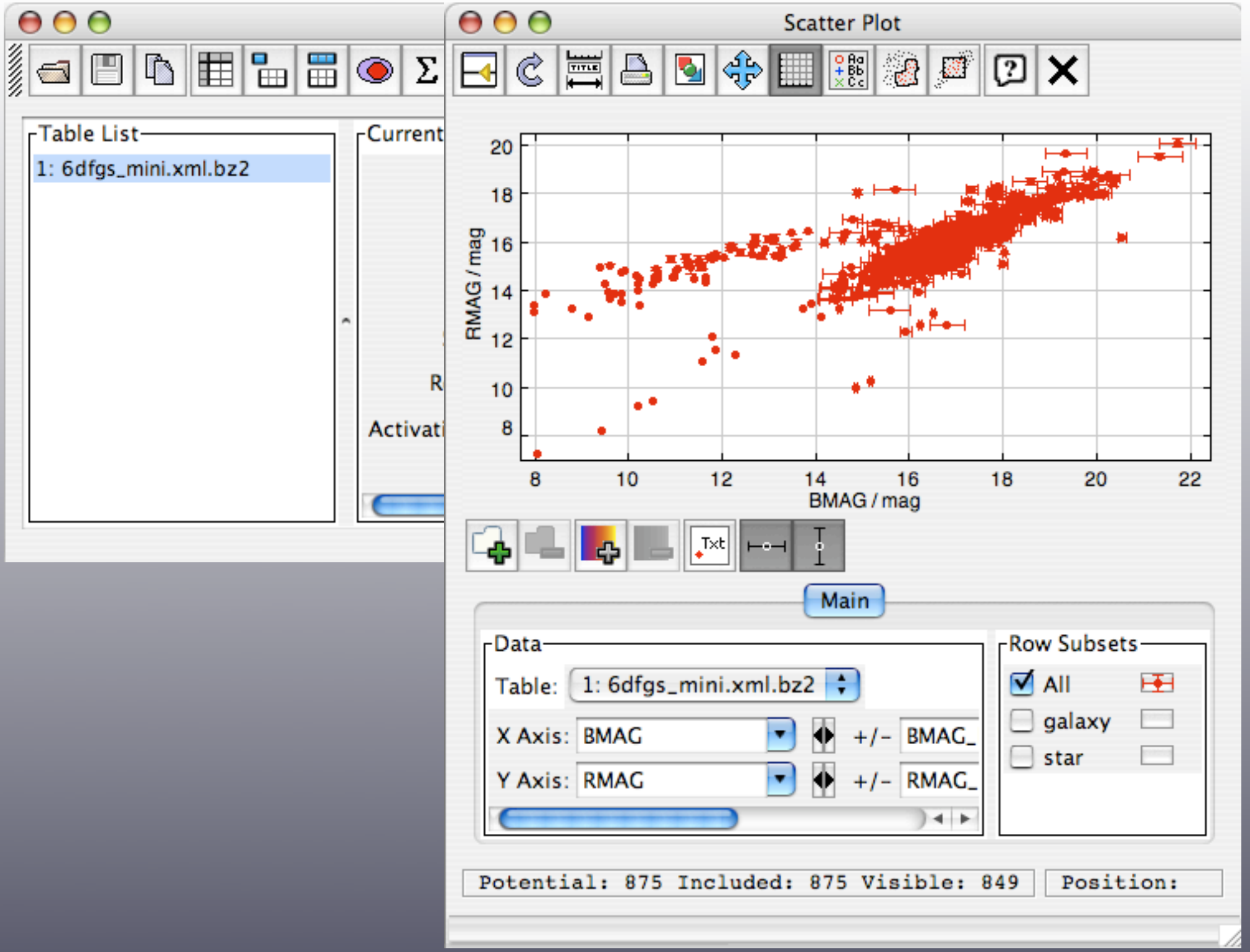


Table List
1: 6dfgs_mini.xml.bz2
Current
Scatter Plot
RMAG / mag
BMAG / mag
20
18
16
14
12
10
8
8
10
12
14
16
18
20
22
Txt
Main
Data
Table:
1: 6dfgs_mini.xml.bz2
X Axis:
BMAG
+/-
BMAG_
Y Axis:
RMAG
+/-
RMAG_
Row Subsets
All
galaxy
star
Potential: 875 Included: 875 Visible: 849
Position:

3D

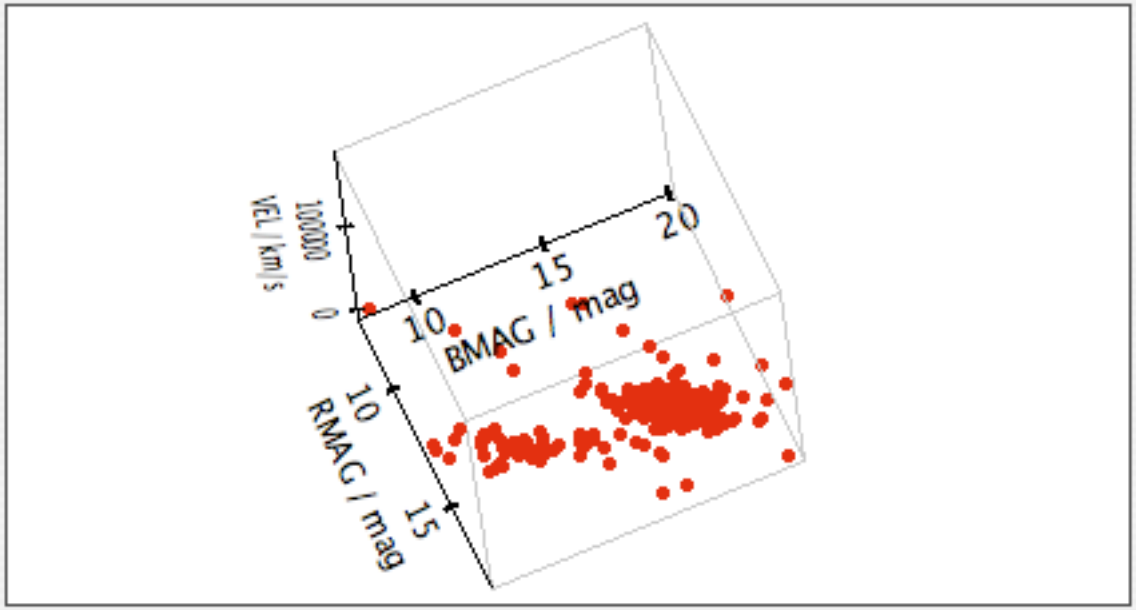
Table List

1: 6dfgs_mini.xml.bz2

Current

R

Activat



Txt

Main

Data

Table: 1: 6dfgs_mini.xml.bz2

X Axis: BMAG Log

Y Axis: RMAG Log

Z Axis: VEL Log

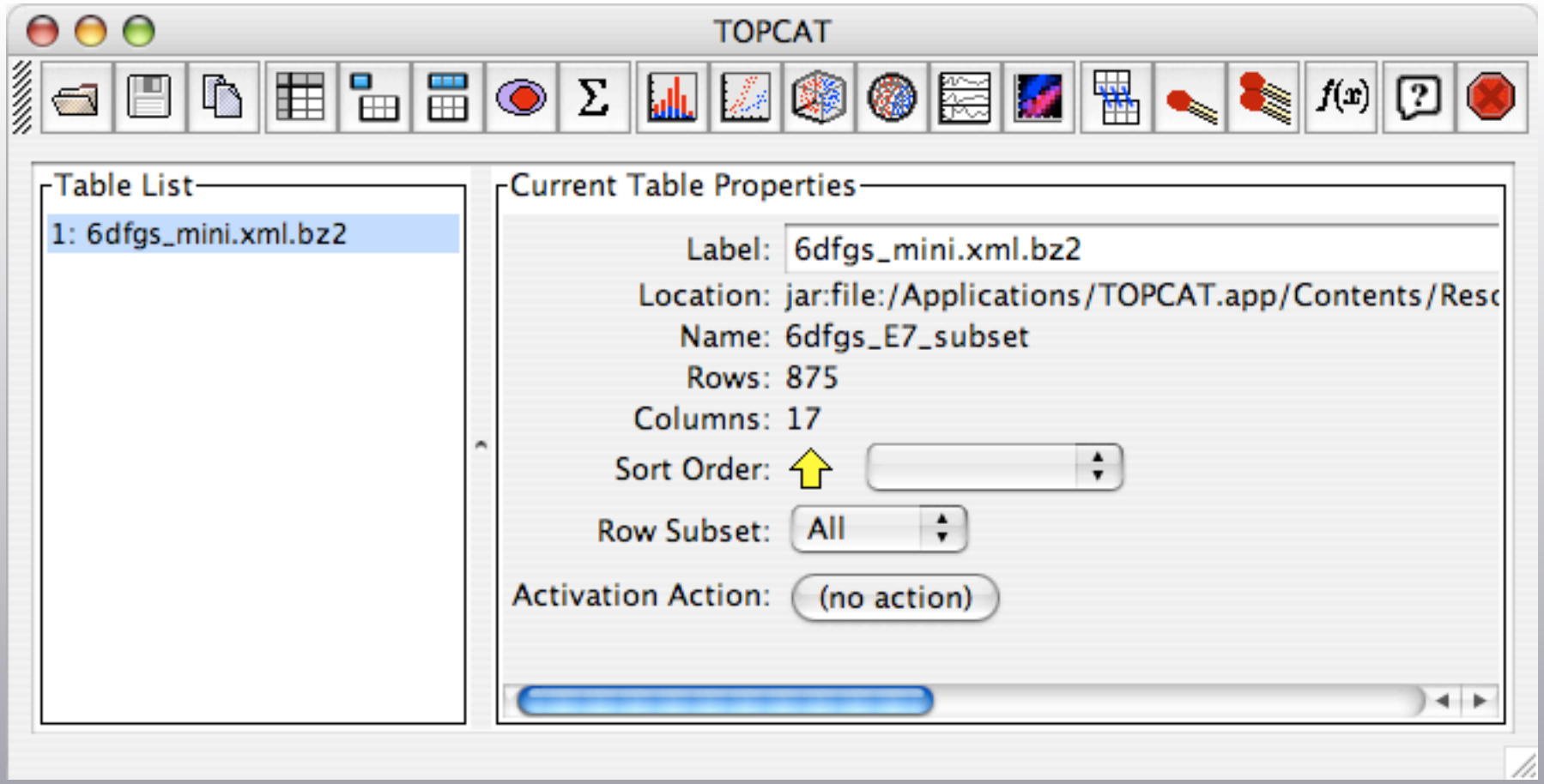
Row Subsets

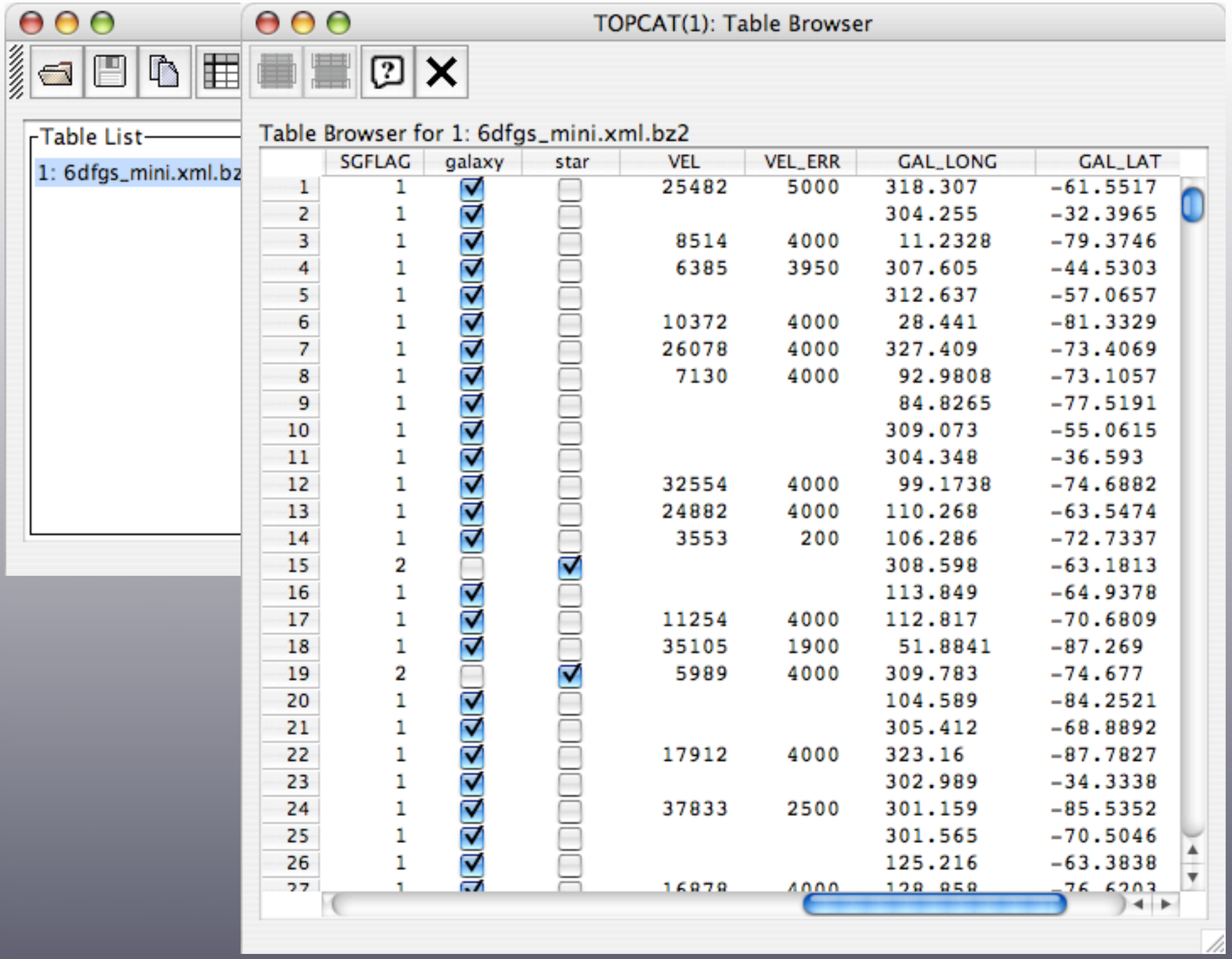
All

galaxy

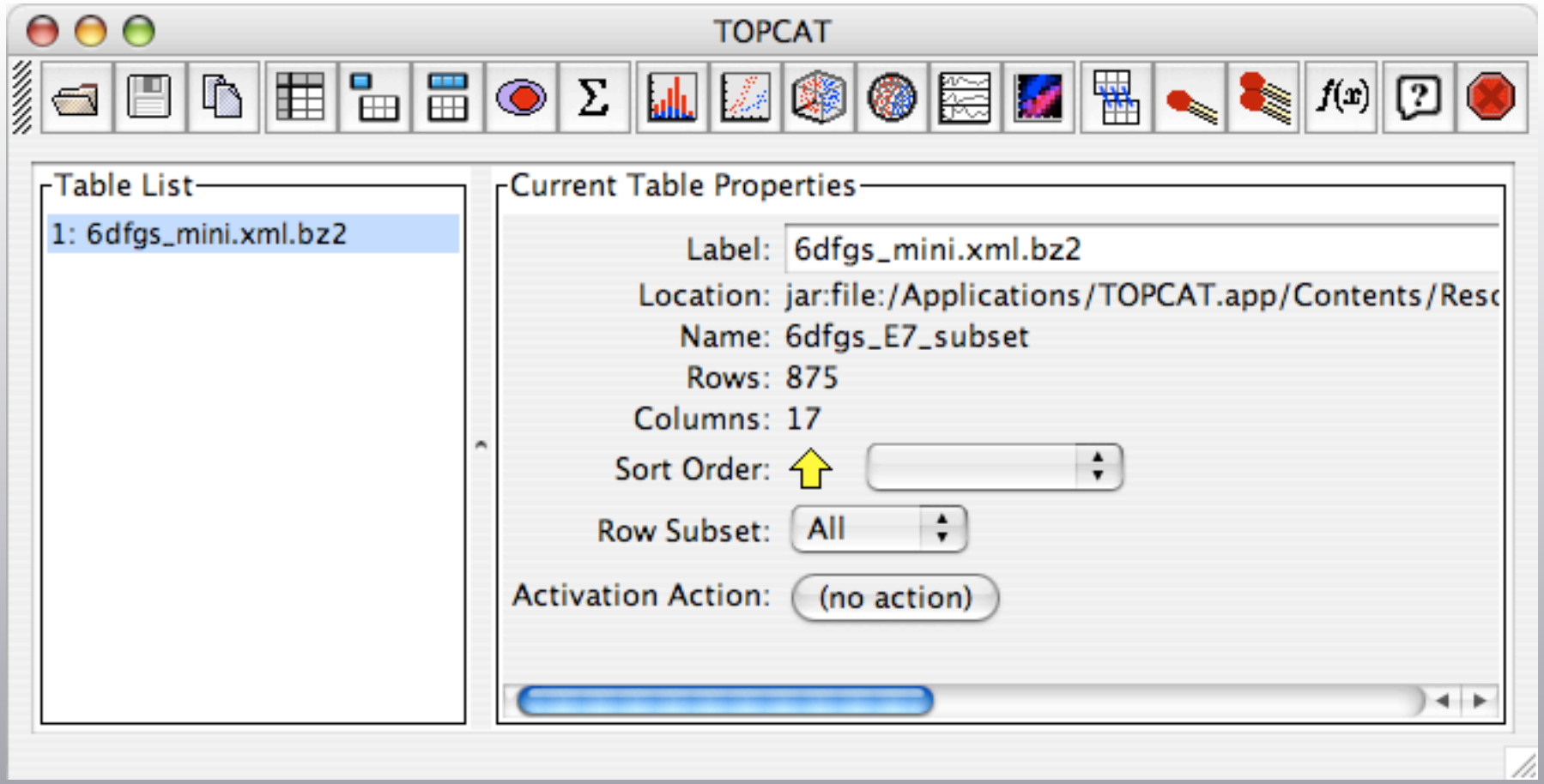
star

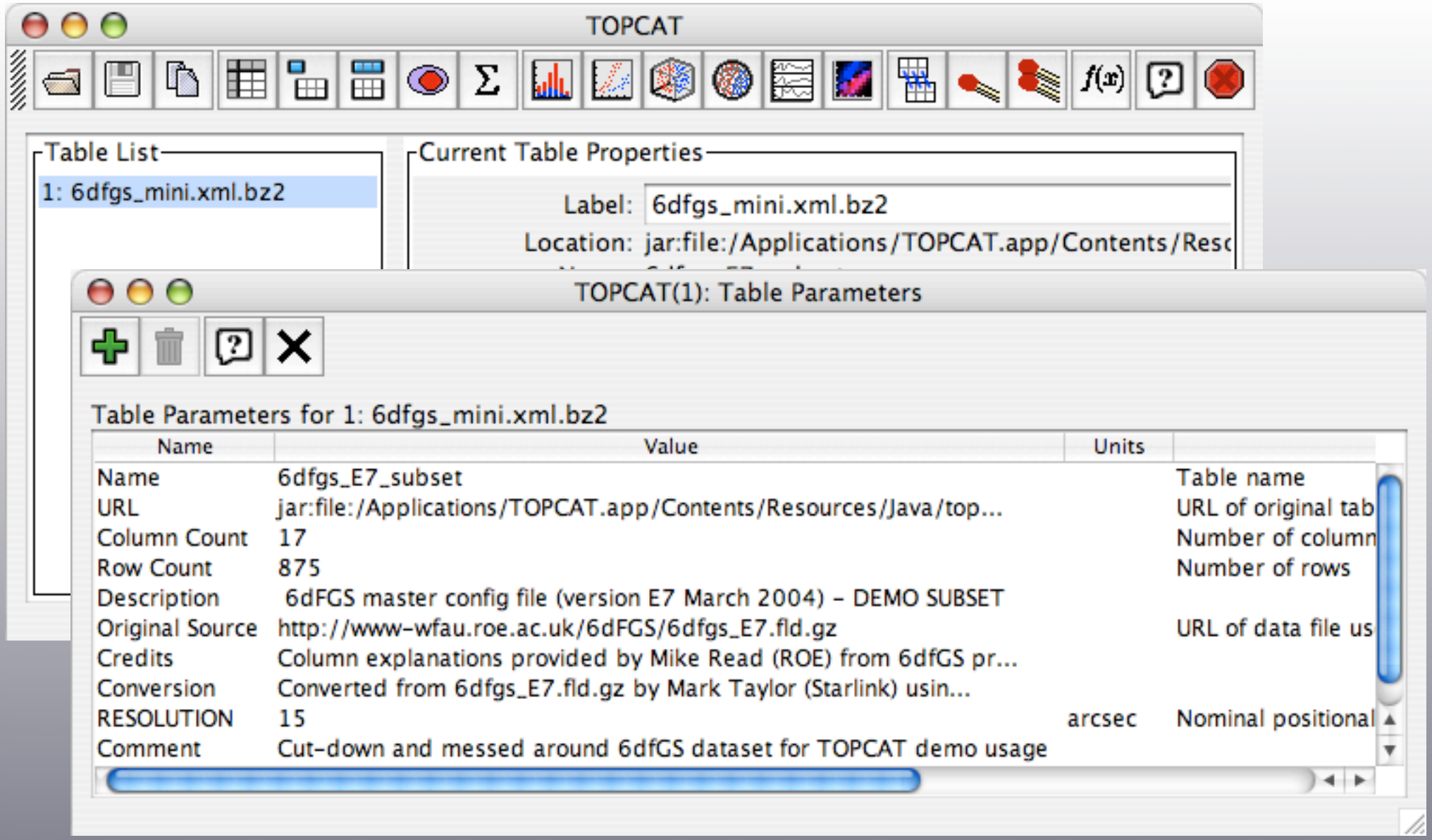
Potential: 875 Included: 875 Visible: 335

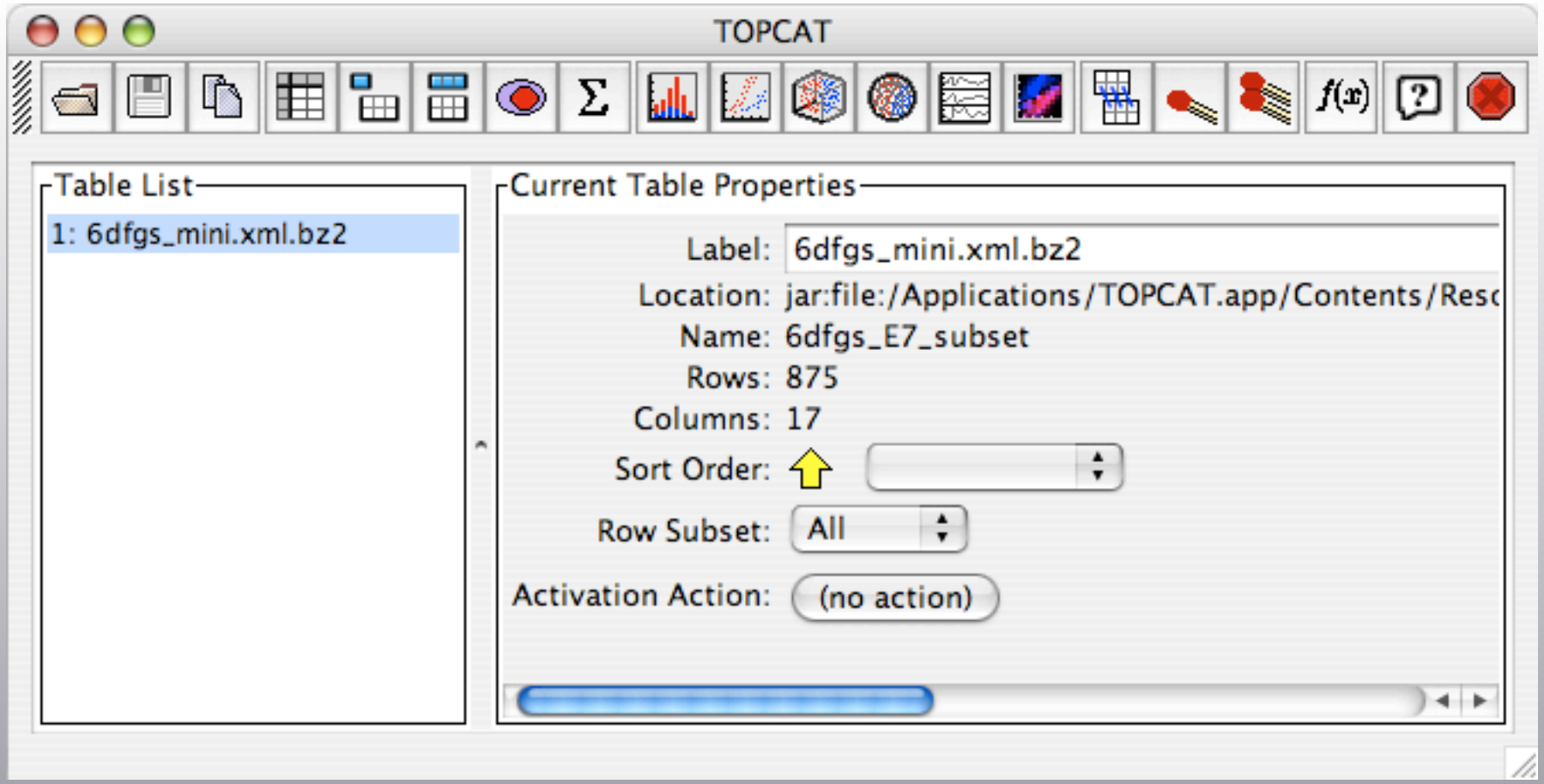

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

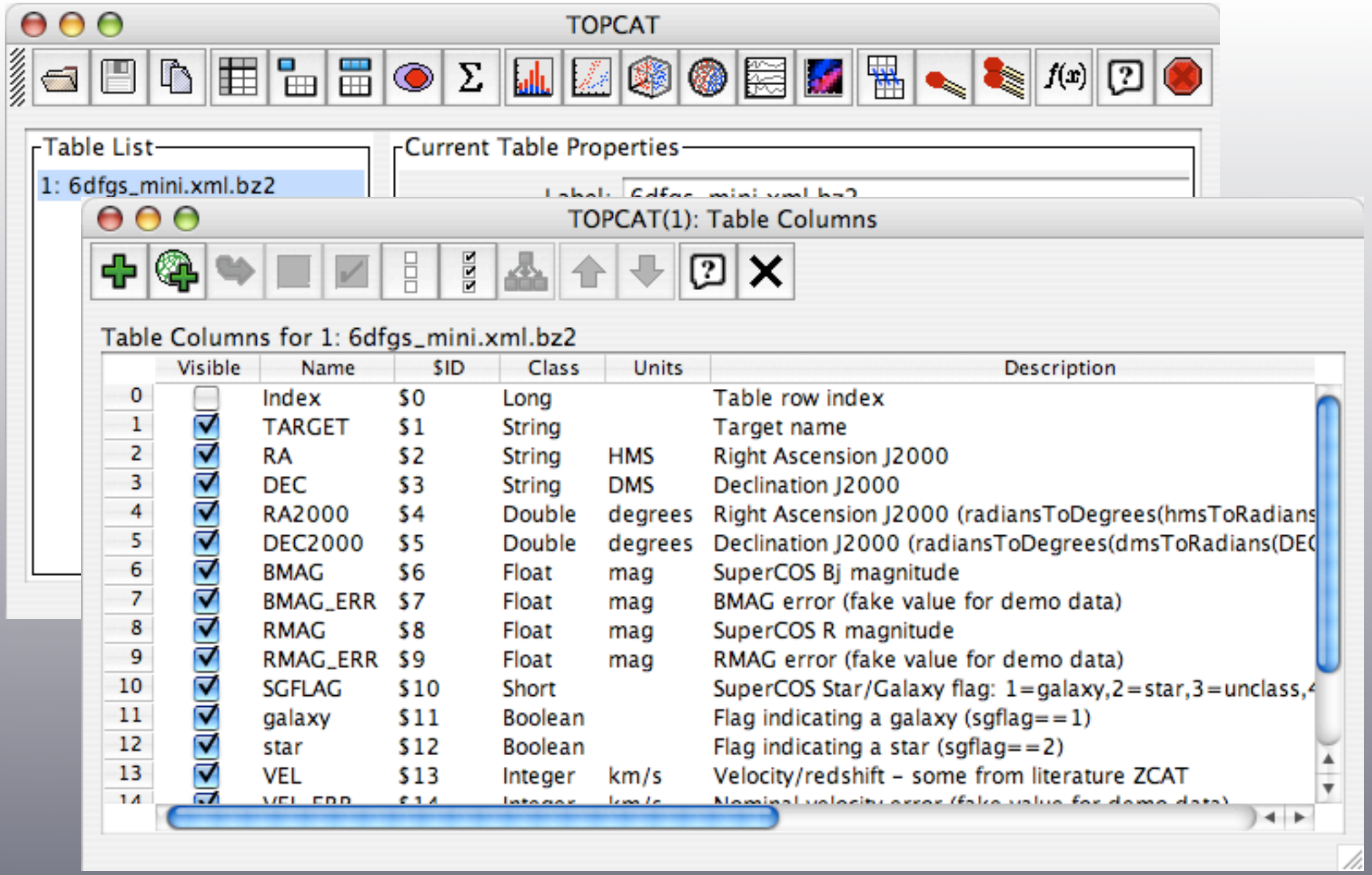


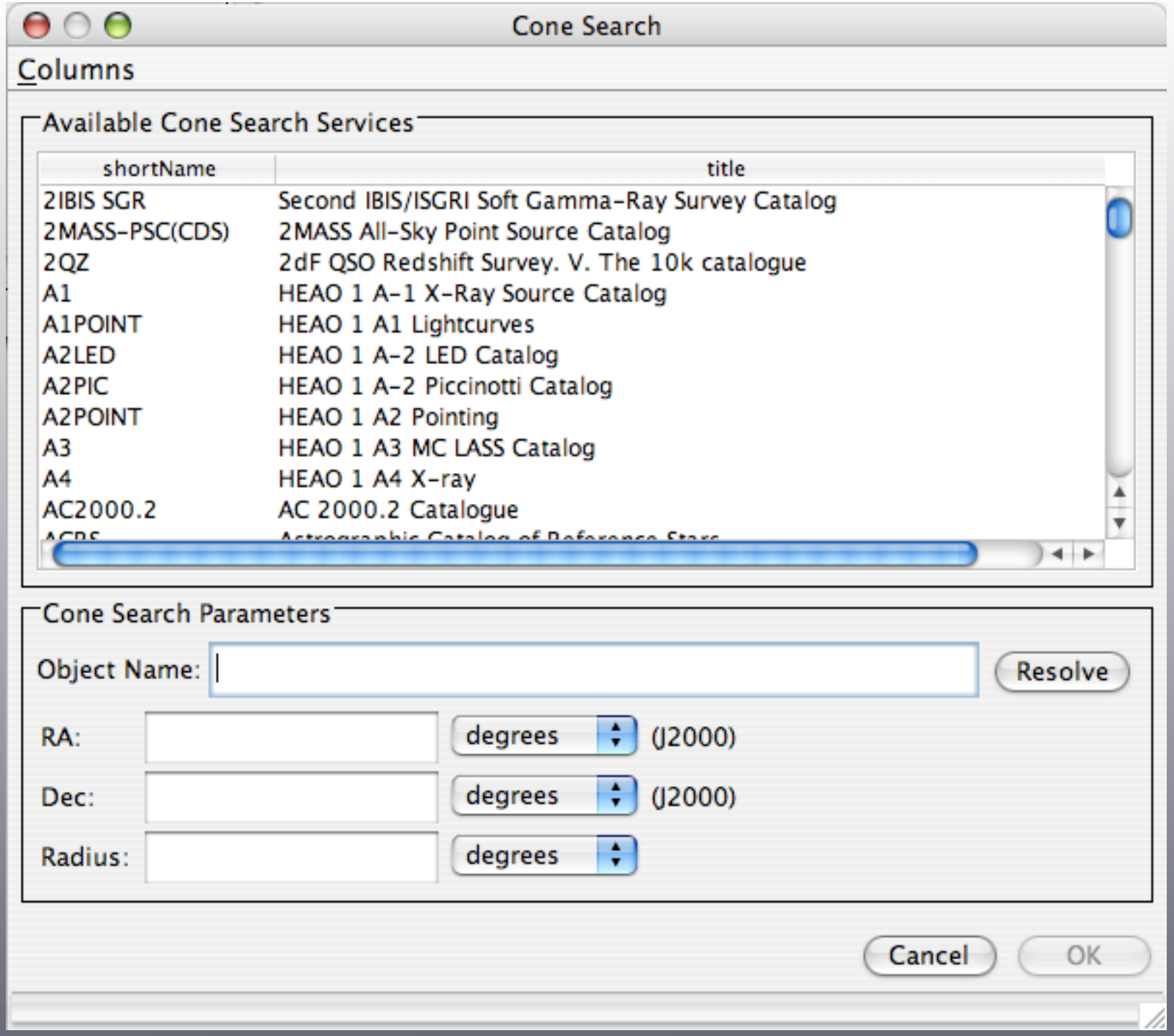
	SGFLAG	galaxy	star	VEL	VEL_ERR	GAL_LONG	GAL_LAT
1	1	☑	☐	25482	5000	318.307	-61.5517
2	1	☑	☐			304.255	-32.3965
3	1	☑	☐	8514	4000	11.2328	-79.3746
4	1	☑	☐	6385	3950	307.605	-44.5303
5	1	☑	☐			312.637	-57.0657
6	1	☑	☐	10372	4000	28.441	-81.3329
7	1	☑	☐	26078	4000	327.409	-73.4069
8	1	☑	☐	7130	4000	92.9808	-73.1057
9	1	☑	☐			84.8265	-77.5191
10	1	☑	☐			309.073	-55.0615
11	1	☑	☐			304.348	-36.593
12	1	☑	☐	32554	4000	99.1738	-74.6882
13	1	☑	☐	24882	4000	110.268	-63.5474
14	1	☑	☐	3553	200	106.286	-72.7337
15	2	☐	☑			308.598	-63.1813
16	1	☑	☐			113.849	-64.9378
17	1	☑	☐	11254	4000	112.817	-70.6809
18	1	☑	☐	35105	1900	51.8841	-87.269
19	2	☐	☑	5989	4000	309.783	-74.677
20	1	☑	☐			104.589	-84.2521
21	1	☑	☐			305.412	-68.8892
22	1	☑	☐	17912	4000	323.16	-87.7827
23	1	☑	☐			302.989	-34.3338
24	1	☑	☐	37833	2500	301.159	-85.5352
25	1	☑	☐			301.565	-70.5046
26	1	☑	☐			125.216	-63.3838
27	1	☑	☐	16878	4000	128.858	-76.6203

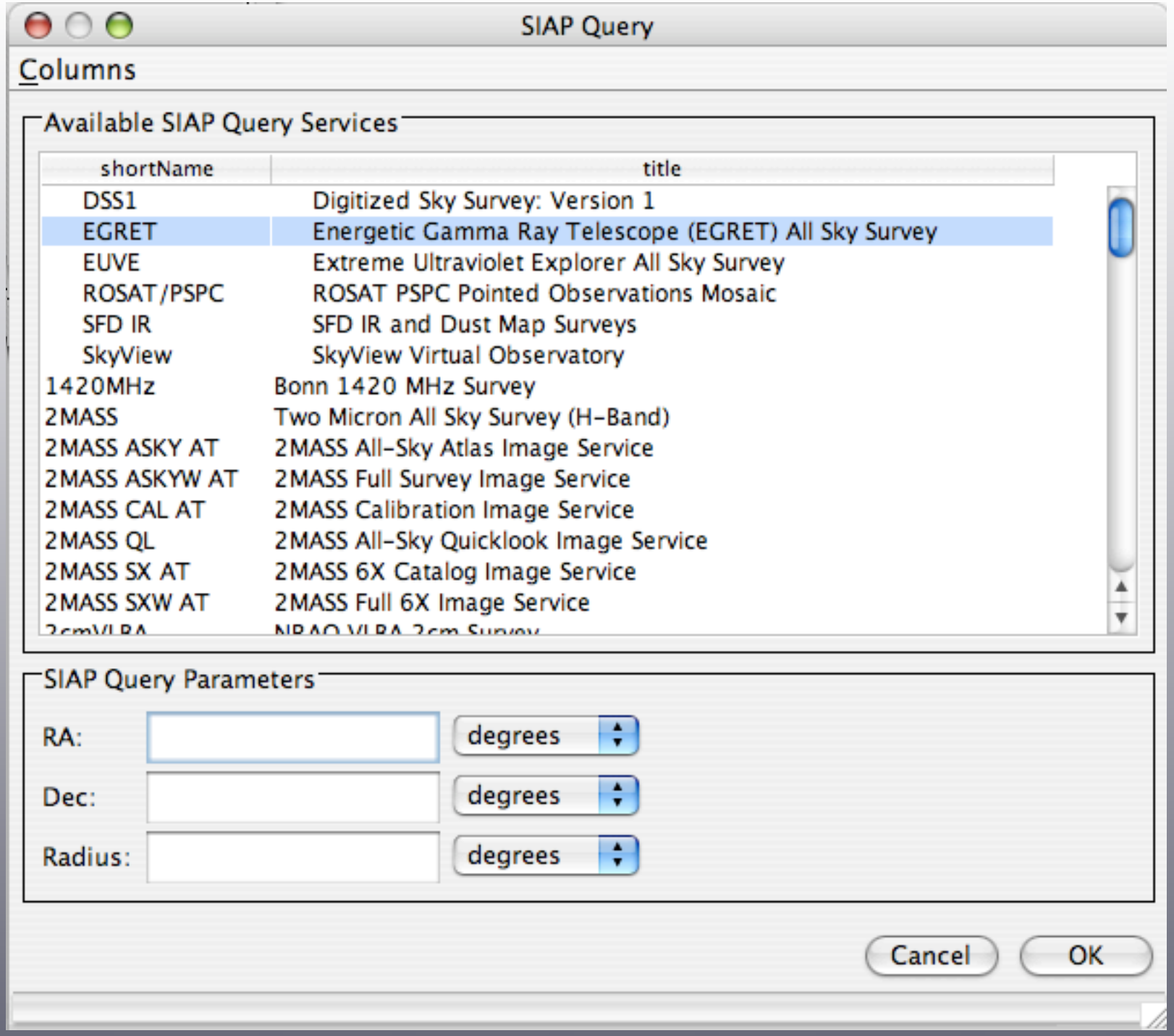

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

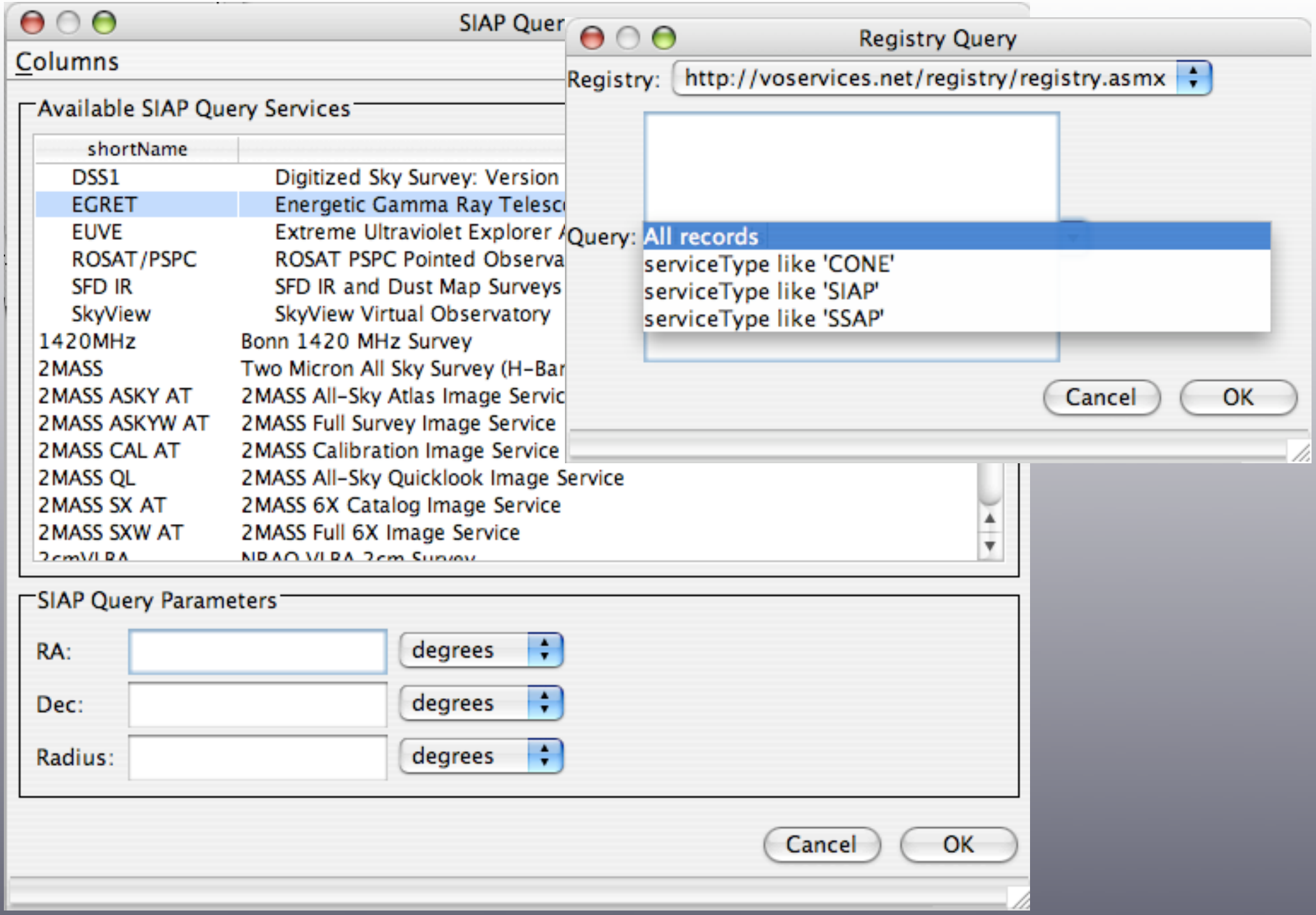

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
TOPCAT(1): Table Parameters
Table Parameters for 1: 6dfgs_mini.xml.bz2
Name
Value
Units
Name 6dfgs_E7_subset Table name
URL jar:file:/Applications/TOPCAT.app/Contents/Resources/Java/top... URL of original tab
Column Count 17 Number of column
Row Count 875 Number of rows
Description 6dFGS master config file (version E7 March 2004) - DEMO SUBSET
Original Source http://www-wfau.roe.ac.uk/6dFGS/6dfgs_E7.fld.gz URL of data file us
Credits Column explanations provided by Mike Read (ROE) from 6dfGS pr...
Conversion Converted from 6dfgs_E7.fld.gz by Mark Taylor (Starlink) usin...
RESOLUTION 15 arcsec Nominal positional
Comment Cut-down and messed around 6dfGS dataset for TOPCAT demo usage

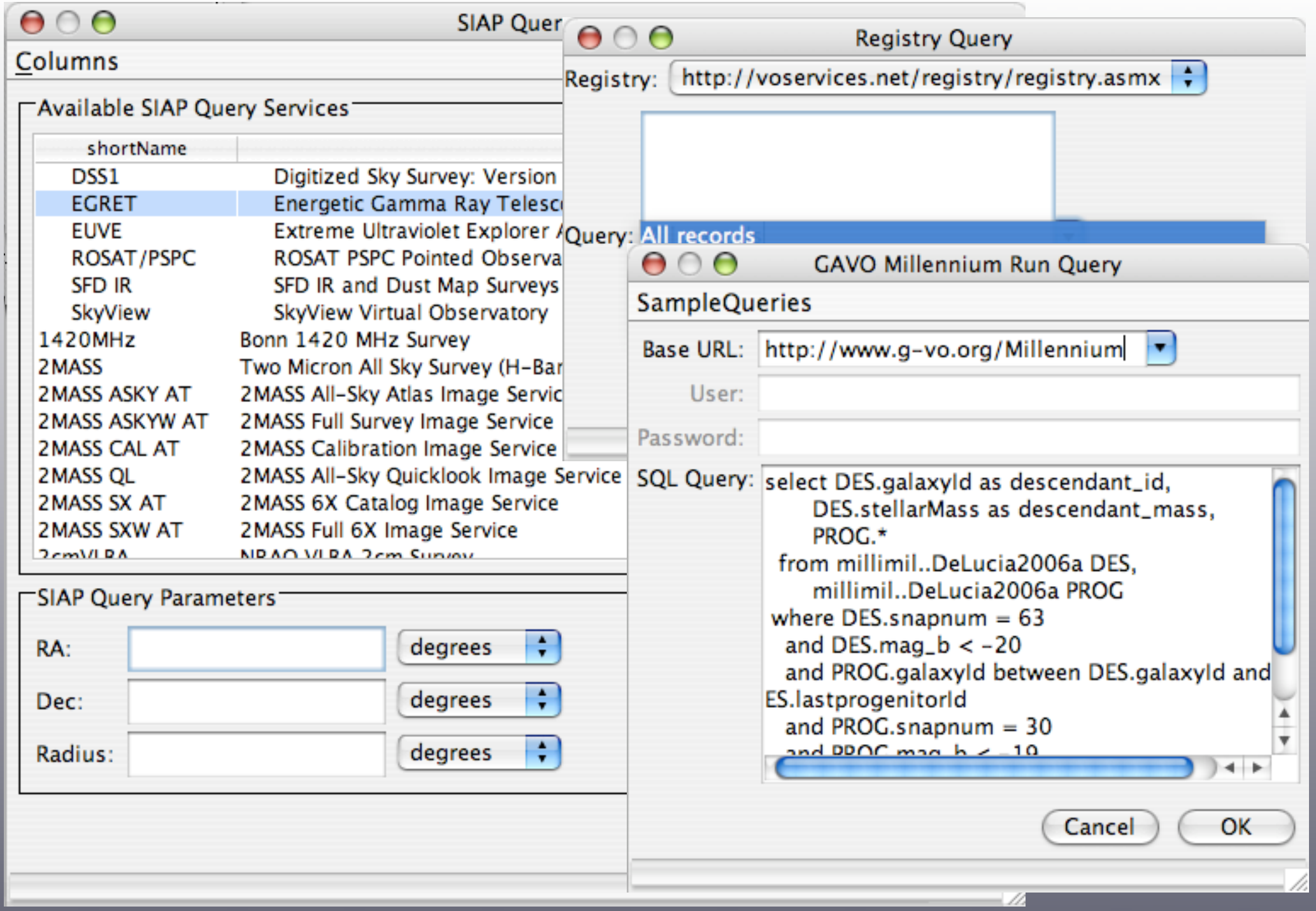

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

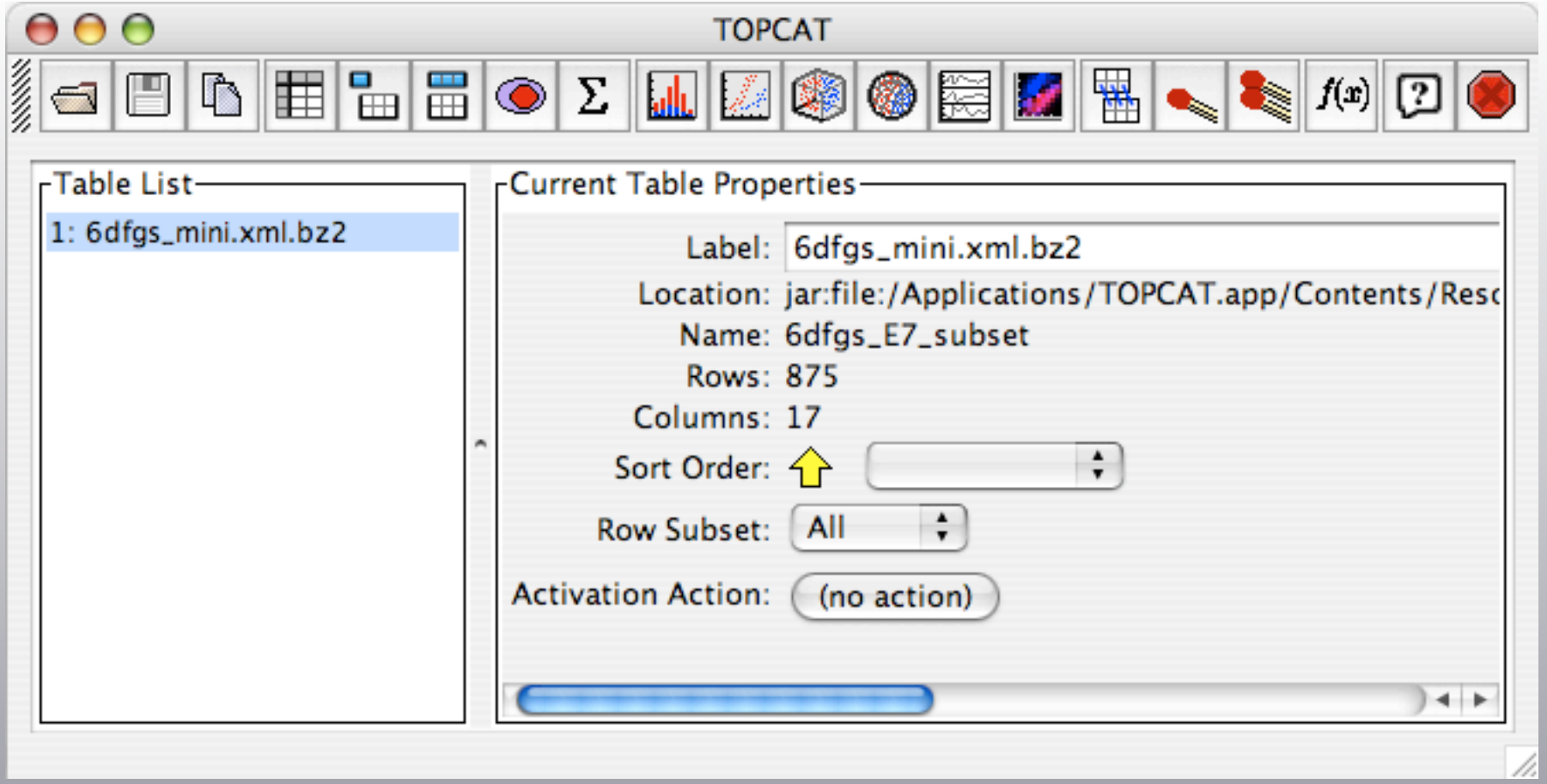

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
TOPCAT(1): Table Columns
Table Columns for 1: 6dfgs_mini.xml.bz2
Visible
Name
$ID
Class
Units
Description
0 Index $0 Long Table row index
1 TARGET $1 String Target name
2 RA $2 String HMS Right Ascension J2000
3 DEC $3 String DMS Declination J2000
4 RA2000 $4 Double degrees Right Ascension J2000 (radiansToDegrees(hmsToRadians
5 DEC2000 $5 Double degrees Declination J2000 (radiansToDegrees(dmsToRadians(DE(
6 BMAG $6 Float mag SuperCOS Bj magnitude
7 BMAG_ERR $7 Float mag BMAG error (fake value for demo data)
8 RMAG $8 Float mag SuperCOS R magnitude
9 RMAG_ERR $9 Float mag RMAG error (fake value for demo data)
10 SGFLAG $10 Short SuperCOS Star/Galaxy flag: 1=galaxy,2=star,3=unclass,
11 galaxy $11 Boolean Flag indicating a galaxy (sgflag==1)
12 star $12 Boolean Flag indicating a star (sgflag==2)
13 VEL $13 Integer km/s Velocity/redshift - some from literature ZCAT

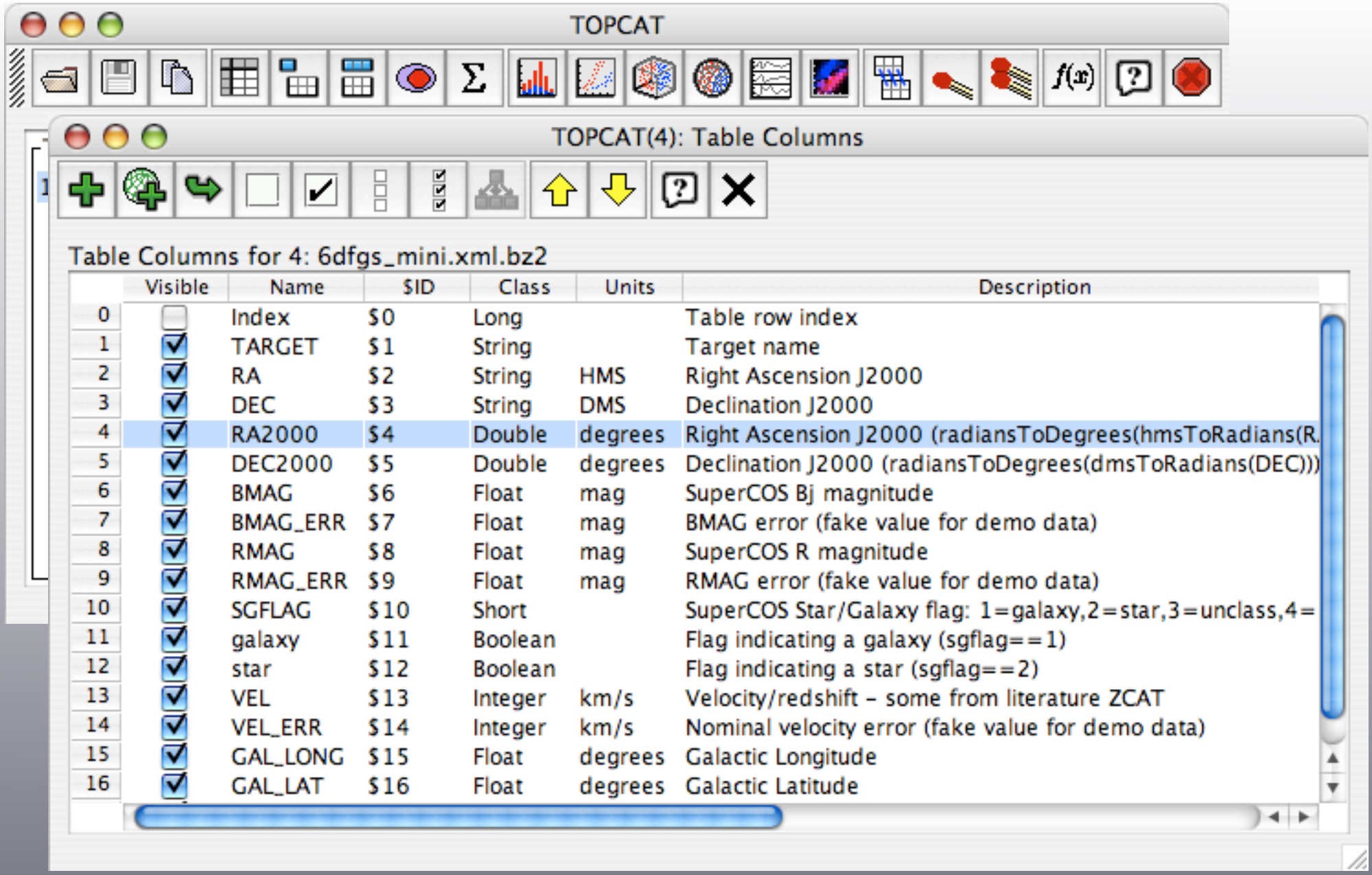

Cone Search
Columns
Available Cone Search Services
shortName
title
2IBIS SGR
Second IBIS/ISGRI Soft Gamma-Ray Survey Catalog
2MASS-PSC(CDS)
2MASS All-Sky Point Source Catalog
2QZ
2dF QSO Redshift Survey. V. The 10k catalogue
A1
HEAO 1 A-1 X-Ray Source Catalog
A1POINT
HEAO 1 A1 Lightcurves
A2LED
HEAO 1 A-2 LED Catalog
A2PIC
HEAO 1 A-2 Piccinotti Catalog
A2POINT
HEAO 1 A2 Pointing
A3
HEAO 1 A3 MC LASS Catalog
A4
HEAO 1 A4 X-ray
AC2000.2
AC 2000.2 Catalogue
Cone Search Parameters
Object Name:
Resolve
RA:
degrees
(J2000)
Dec:
degrees
(J2000)
Radius:
degrees
Cancel
OK


SIAP Query
Columns
Available SIAP Query Services
shortName
title
DSS1
Digitized Sky Survey: Version 1
EGRET
Energetic Gamma Ray Telescope (EGRET) All Sky Survey
EUVE
Extreme Ultraviolet Explorer All Sky Survey
ROSAT/PSPC
ROSAT PSPC Pointed Observations Mosaic
SFD IR
SFD IR and Dust Map Surveys
SkyView
SkyView Virtual Observatory
1420MHz
Bonn 1420 MHz Survey
2MASS
Two Micron All Sky Survey (H-Band)
2MASS ASKY AT
2MASS All-Sky Atlas Image Service
2MASS ASKYW AT
2MASS Full Survey Image Service
2MASS CAL AT
2MASS Calibration Image Service
2MASS QL
2MASS All-Sky Quicklook Image Service
2MASS SX AT
2MASS 6X Catalog Image Service
2MASS SXW AT
2MASS Full 6X Image Service
SIAP Query Parameters
RA:
degrees
Dec:
degrees
Radius:
degrees
Cancel
OK

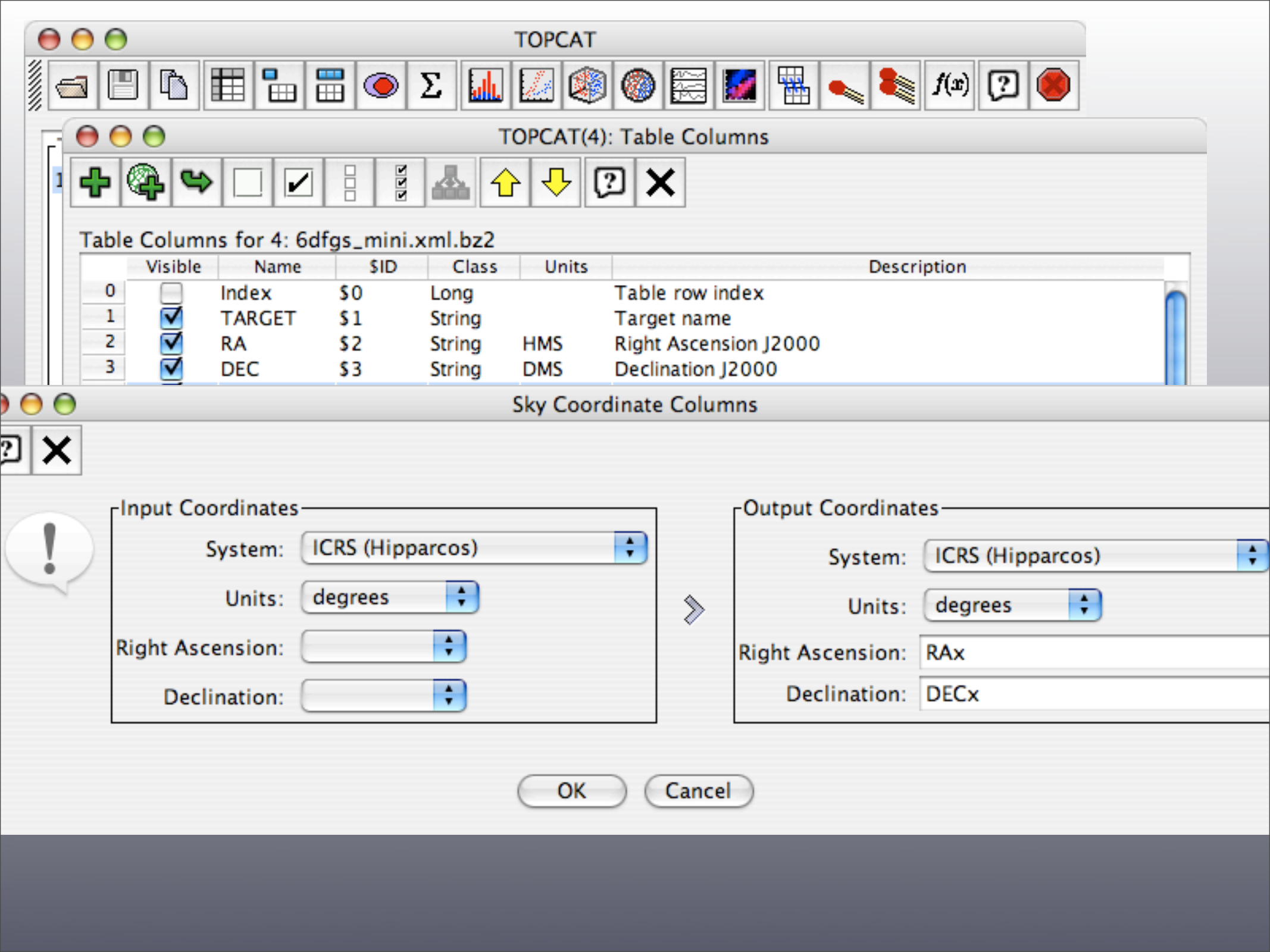

SIAP Quer
Columns
Available SIAP Query Services
shortName
DSS1 Digitized Sky Survey: Version
EGRET Energetic Gamma Ray Telesc
EUVE Extreme Ultraviolet Explorer A
ROSAT/PSPC ROSAT PSPC Pointed Observa
SFD IR SFD IR and Dust Map Surveys
SkyView SkyView Virtual Observatory
1420MHz Bonn 1420 MHz Survey
2MASS Two Micron All Sky Survey (H-Bar
2MASS ASKY AT 2MASS All-Sky Atlas Image Servic
2MASS ASKYW AT 2MASS Full Survey Image Service
2MASS CAL AT 2MASS Calibration Image Service
2MASS QL 2MASS All-Sky Quicklook Image Service
2MASS SX AT 2MASS 6X Catalog Image Service
2MASS SXW AT 2MASS Full 6X Image Service
SIAP Query Parameters
RA:
degrees
Dec:
degrees
Radius:
degrees
Cancel
OK
Registry Query
Registry: http://voservices.net/registry/registry.asmx
Query: All records
serviceType like 'CONE'
serviceType like 'SIAP'
serviceType like 'SSAP'
Cancel
OK

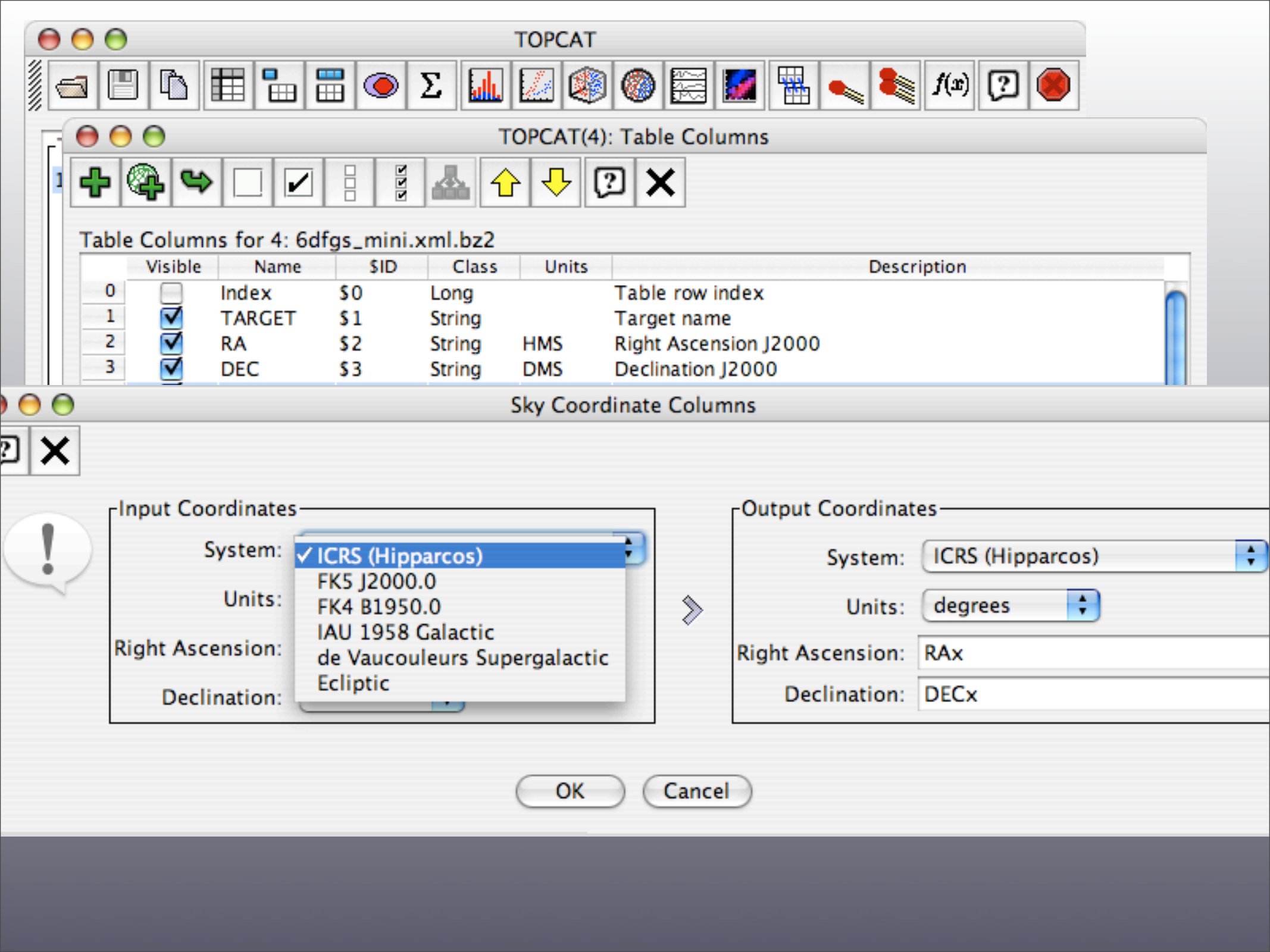

SIAP Quer
Columns
Available SIAP Query Services
shortName
DSS1 Digitized Sky Survey: Version
EGRET Energetic Gamma Ray Telesc
EUVE Extreme Ultraviolet Explorer A
ROSAT/PSPC ROSAT PSPC Pointed Observa
SFD IR SFD IR and Dust Map Surveys
SkyView SkyView Virtual Observatory
1420MHz Bonn 1420 MHz Survey
2MASS Two Micron All Sky Survey (H-Bar
2MASS ASKY AT 2MASS All-Sky Atlas Image Servic
2MASS ASKYW AT 2MASS Full Survey Image Service
2MASS CAL AT 2MASS Calibration Image Service
2MASS QL 2MASS All-Sky Quicklook Image Service
2MASS SX AT 2MASS 6X Catalog Image Service
2MASS SXW AT 2MASS Full 6X Image Service
SIAP Query Parameters
RA:
degrees
Dec:
degrees
Radius:
degrees
Registry Query
Registry: http://voservices.net/registry/registry.asmx
Query: All records
GAVO Millennium Run Query
SampleQueries
Base URL: http://www.g-vo.org/Millennium
User:
Password:
SQL Query:
select DES.galaxyId as descendant_id,
DES.stellarMass as descendant_mass,
PROG.*
from millimil..DeLucia2006a DES,
millimil..DeLucia2006a PROG
where DES.snapnum = 63
and DES.mag_b < -20
and PROG.galaxyId between DES.galaxyId and
ES.lastprogenitorId
and PROG.snapnum = 30
Cancel
OK

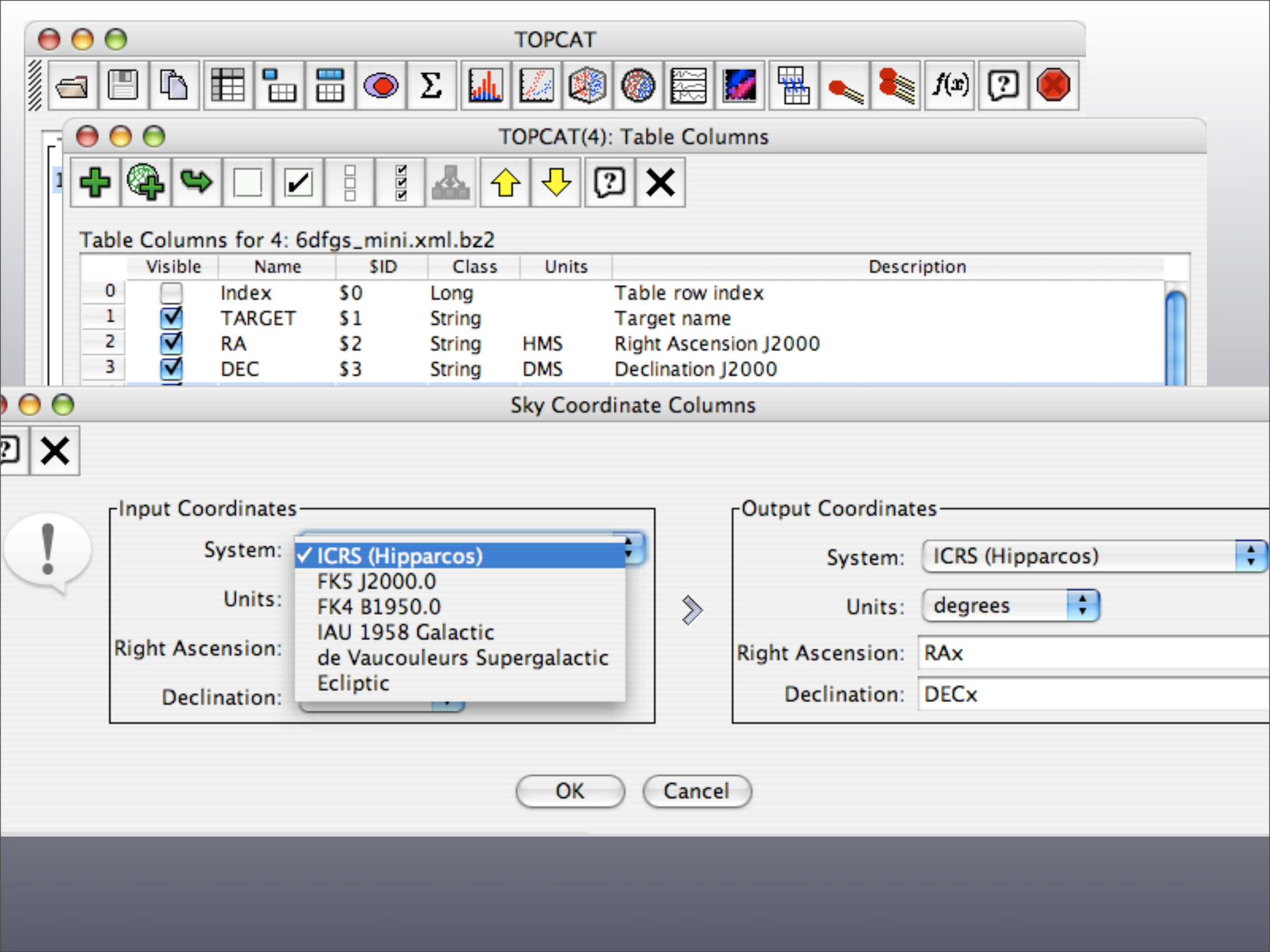

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

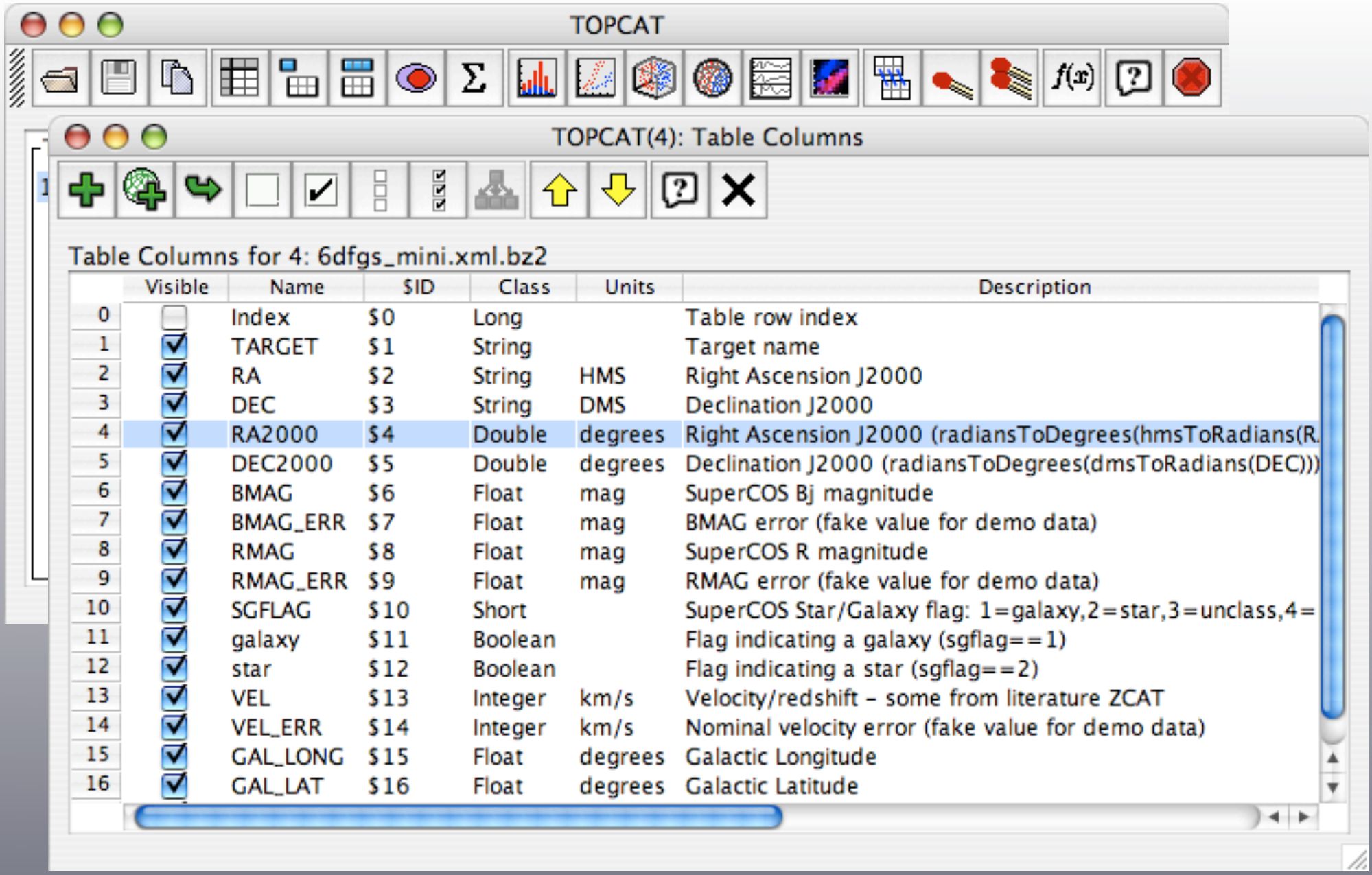


	Visible	Name	$ID	Class	Units	Description
0	☐	Index	$0	Long		Table row index
1	☑	TARGET	$1	String		Target name
2	☑	RA	$2	String	HMS	Right Ascension J2000
3	☑	DEC	$3	String	DMS	Declination J2000
4	☑	RA2000	$4	Double	degrees	Right Ascension J2000 (radiansToDegrees(hmsToRadians(R.
5	☑	DEC2000	$5	Double	degrees	Declination J2000 (radiansToDegrees(dmsToRadians(DEC)))
6	☑	BMAG	$6	Float	mag	SuperCOS Bj magnitude
7	☑	BMAG_ERR	$7	Float	mag	BMAG error (fake value for demo data)
8	☑	RMAG	$8	Float	mag	SuperCOS R magnitude
9	☑	RMAG_ERR	$9	Float	mag	RMAG error (fake value for demo data)
10	☑	SGFLAG	$10	Short		SuperCOS Star/Galaxy flag: 1=galaxy,2=star,3=unclass,4=
11	☑	galaxy	$11	Boolean		Flag indicating a galaxy (sgflag==1)
12	☑	star	$12	Boolean		Flag indicating a star (sgflag==2)
13	☑	VEL	$13	Integer	km/s	Velocity/redshift - some from literature ZCAT
14	☑	VEL_ERR	$14	Integer	km/s	Nominal velocity error (fake value for demo data)
15	☑	GAL_LONG	$15	Float	degrees	Galactic Longitude
16	☑	GAL_LAT	$16	Float	degrees	Galactic Latitude

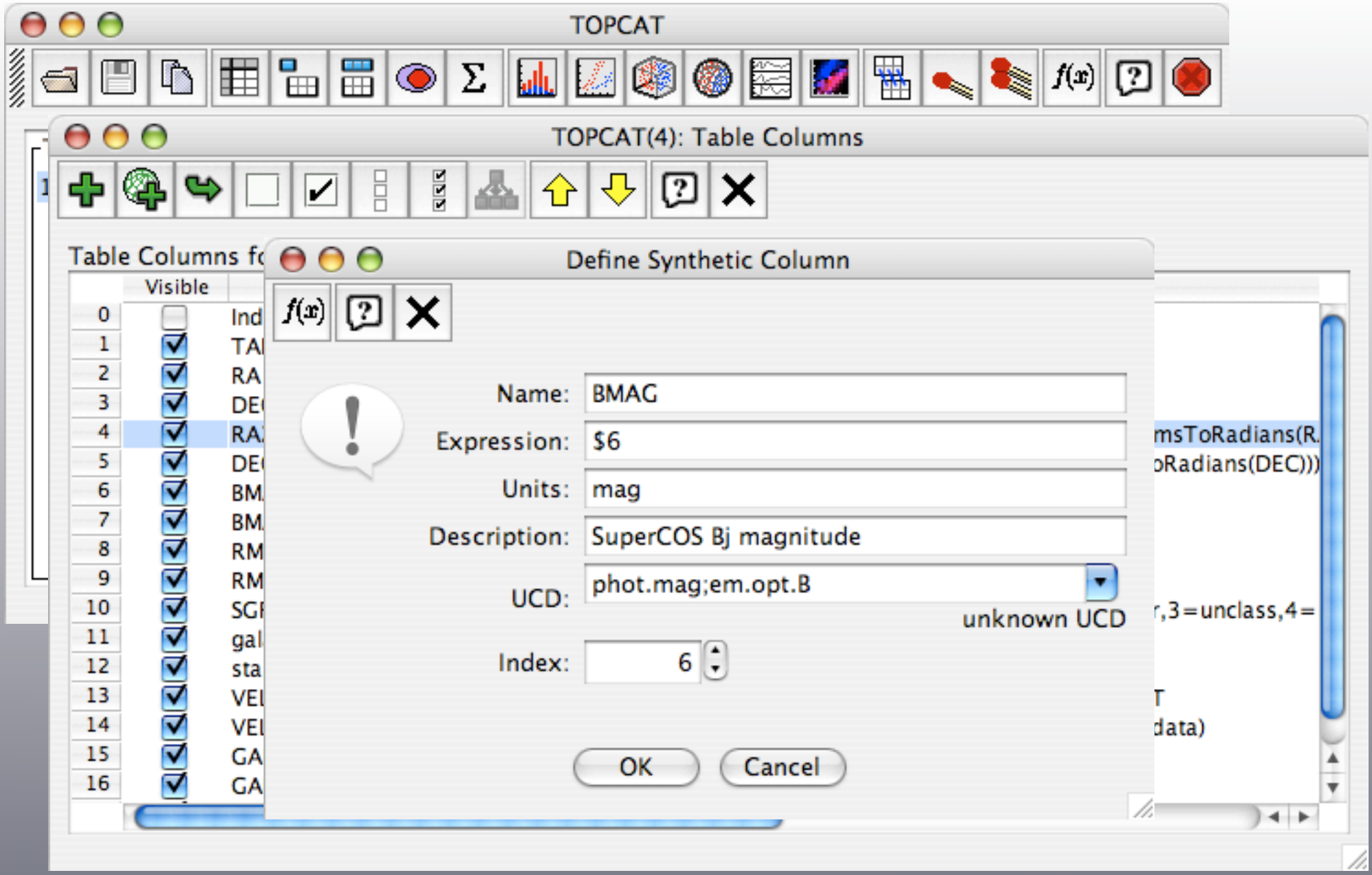

TOPCAT
TOPCAT(4): Table Columns
Table Columns for 4: 6dfgs_mini.xml.bz2
Visible Name $ID Class Units Description
0 Index $0 Long Table row index
1 TARGET $1 String Target name
2 RA $2 String HMS Right Ascension J2000
3 DEC $3 String DMS Declination J2000
Sky Coordinate Columns
Input Coordinates
System: ICRS (Hipparcos)
Units: degrees
Right Ascension:
Declination:
Output Coordinates
System: ICRS (Hipparcos)
Units: degrees
Right Ascension: RAx
Declination: DECx
OK
Cancel

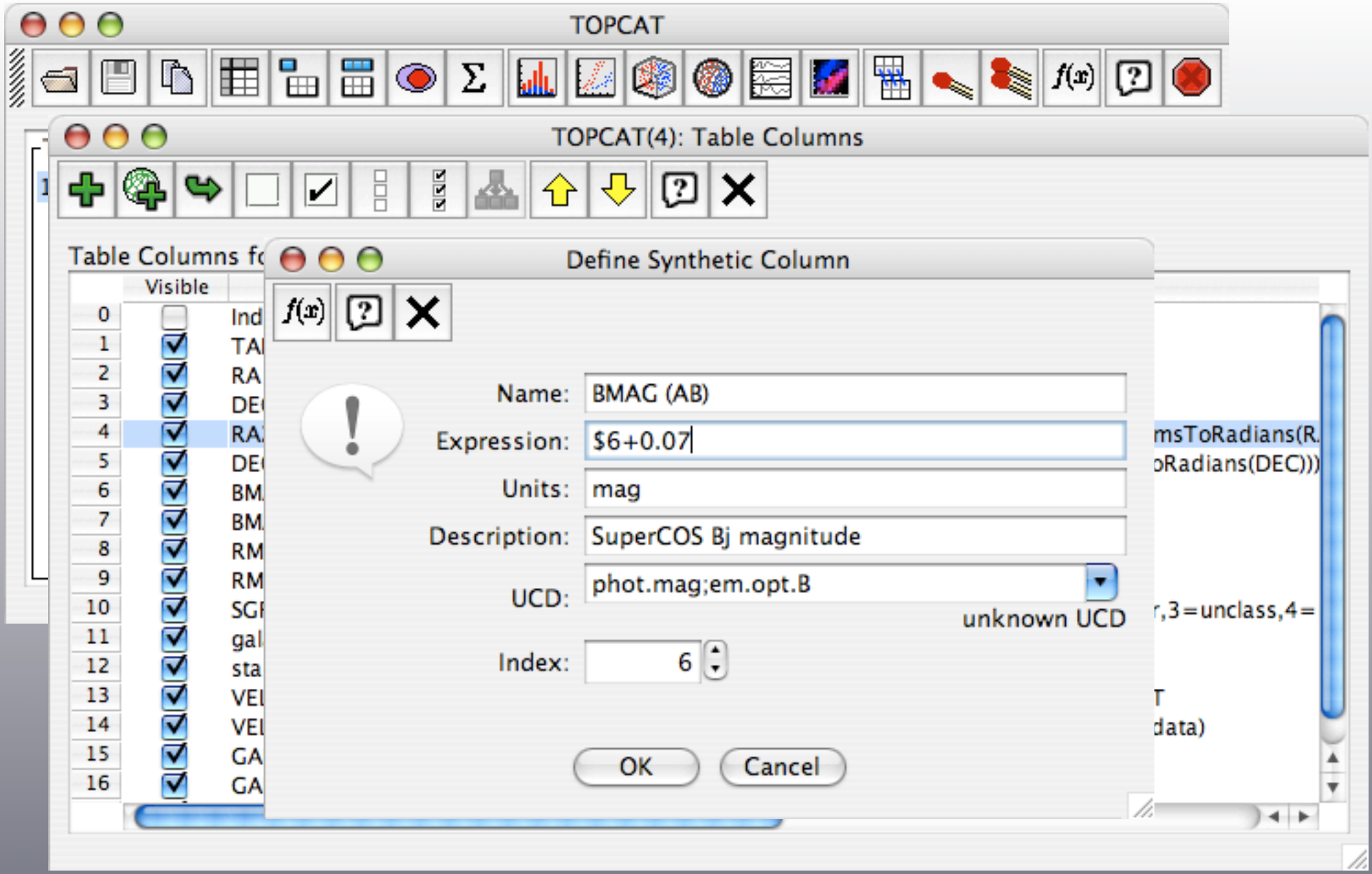

TOPCAT
TOPCAT(4): Table Columns
Table Columns for 4: 6dfgs_mini.xml.bz2
Visible Name $ID Class Units Description
0 Index $0 Long Table row index
1 TARGET $1 String Target name
2 RA $2 String HMS Right Ascension J2000
3 DEC $3 String DMS Declination J2000
Sky Coordinate Columns
Input Coordinates
System:
Units:
Right Ascension:
Declination:
ICRS (Hipparcos)
FK5 J2000.0
FK4 B1950.0
IAU 1958 Galactic
de Vaucouleurs Supergalactic
Ecliptic
Output Coordinates
System: ICRS (Hipparcos)
Units: degrees
Right Ascension: RAx
Declination: DECx
OK
Cancel

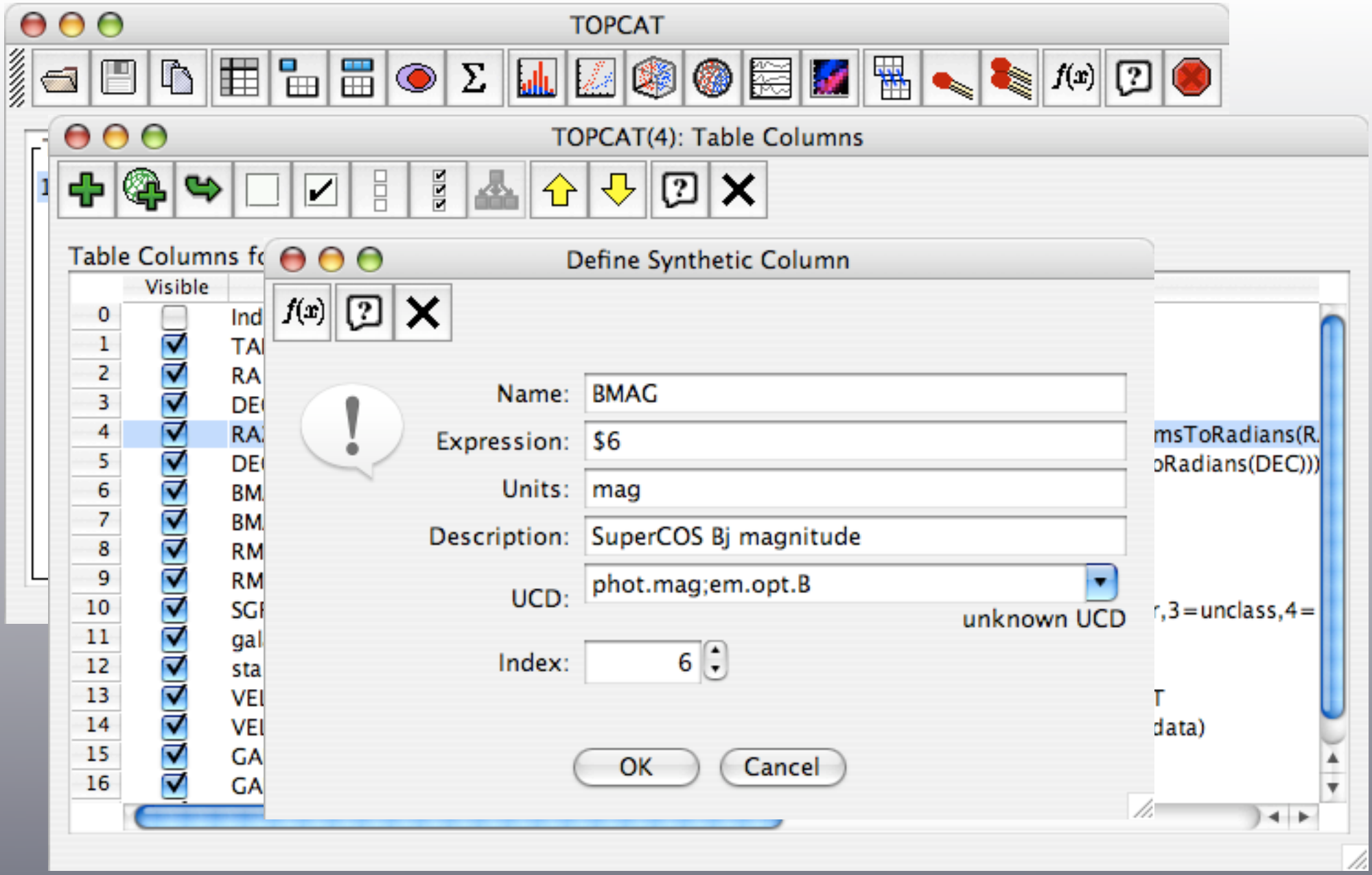

TOPCAT
TOPCAT(4): Table Columns
Table Columns for 4: 6dfgs_mini.xml.bz2
Visible Name $ID Class Units Description
0 Index $0 Long Table row index
1 TARGET $1 String Target name
2 RA $2 String HMS Right Ascension J2000
3 DEC $3 String DMS Declination J2000
Sky Coordinate Columns
Input Coordinates
System:
Units:
Right Ascension:
Declination:
ICRS (Hipparcos)
FK5 J2000.0
FK4 B1950.0
IAU 1958 Galactic
de Vaucouleurs Supergalactic
Ecliptic
Output Coordinates
System: ICRS (Hipparcos)
Units: degrees
Right Ascension: RAx
Declination: DECx
OK
Cancel

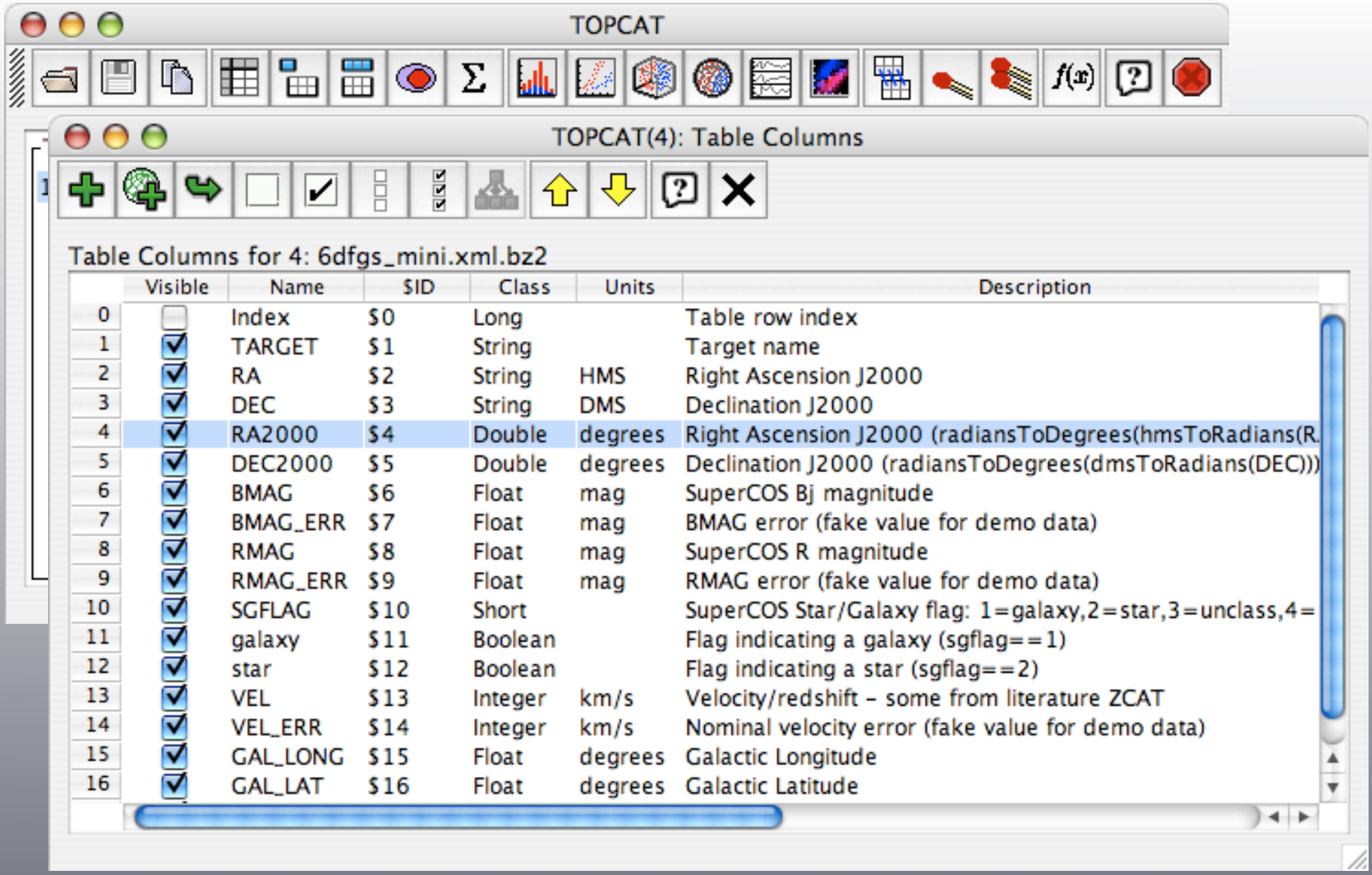


	Visible	Name	$ID	Class	Units	Description
0	☐	Index	$0	Long		Table row index
1	☑	TARGET	$1	String		Target name
2	☑	RA	$2	String	HMS	Right Ascension J2000
3	☑	DEC	$3	String	DMS	Declination J2000
4	☑	RA2000	$4	Double	degrees	Right Ascension J2000 (radiansToDegrees(hmsToRadians(R.
5	☑	DEC2000	$5	Double	degrees	Declination J2000 (radiansToDegrees(dmsToRadians(DEC)))
6	☑	BMAG	$6	Float	mag	SuperCOS Bj magnitude
7	☑	BMAG_ERR	$7	Float	mag	BMAG error (fake value for demo data)
8	☑	RMAG	$8	Float	mag	SuperCOS R magnitude
9	☑	RMAG_ERR	$9	Float	mag	RMAG error (fake value for demo data)
10	☑	SGFLAG	$10	Short		SuperCOS Star/Galaxy flag: 1=galaxy,2=star,3=unclass,4=
11	☑	galaxy	$11	Boolean		Flag indicating a galaxy (sgflag==1)
12	☑	star	$12	Boolean		Flag indicating a star (sgflag==2)
13	☑	VEL	$13	Integer	km/s	Velocity/redshift - some from literature ZCAT
14	☑	VEL_ERR	$14	Integer	km/s	Nominal velocity error (fake value for demo data)
15	☑	GAL_LONG	$15	Float	degrees	Galactic Longitude
16	☑	GAL_LAT	$16	Float	degrees	Galactic Latitude

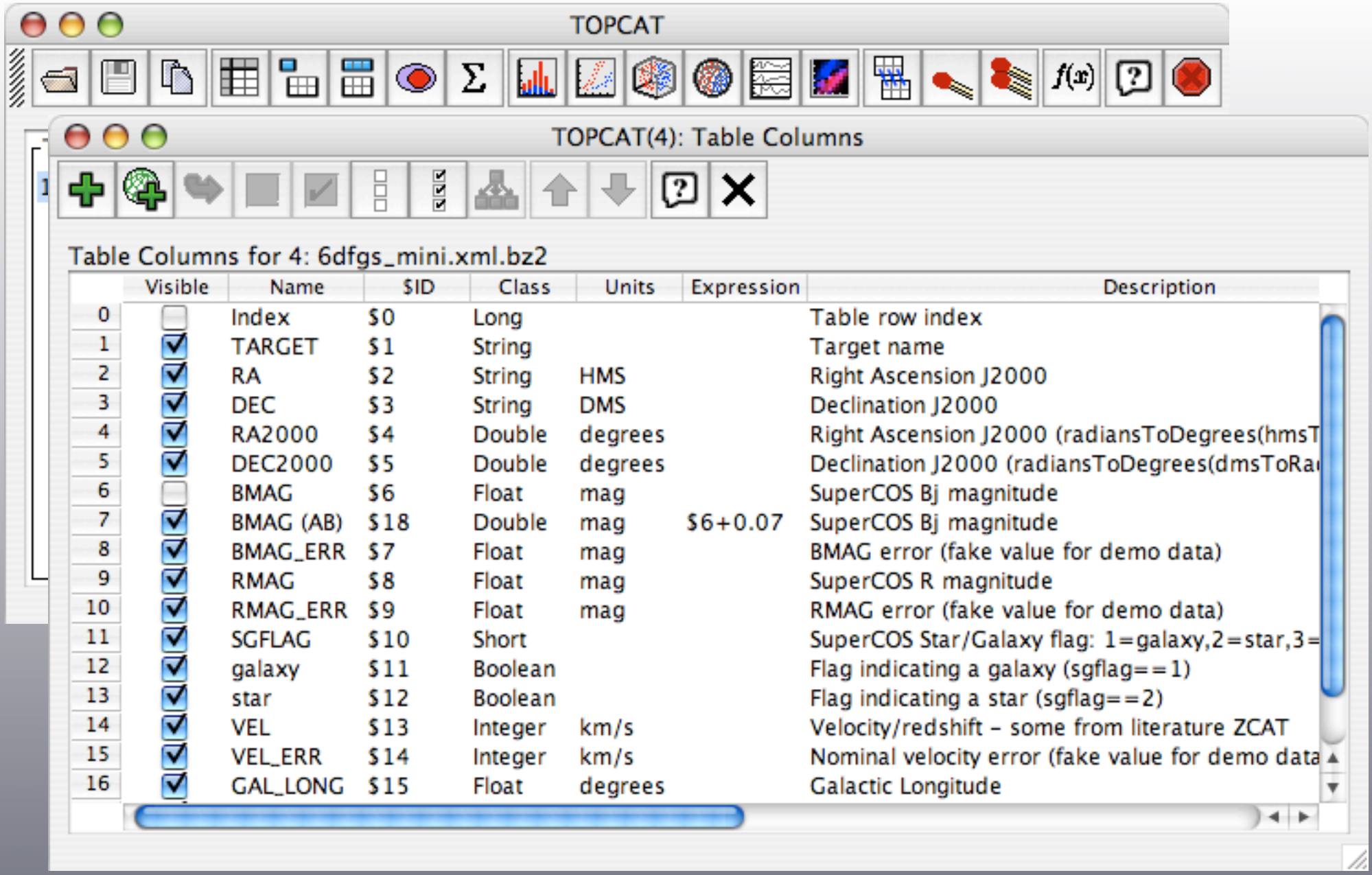

TOPCAT
TOPCAT(4): Table Columns
Table Columns fo
Visible
Define Synthetic Column
Name: BMAG
Expression: $6
Units: mag
Description: SuperCOS Bj magnitude
UCD: phot.mag;em.opt.B
unknown UCD
Index: 6
OK
Cancel


TOPCAT
TOPCAT(4): Table Columns
Table Columns fo
Visible
Define Synthetic Column
Name: BMAG (AB)
Expression: $6+0.07
Units: mag
Description: SuperCOS Bj magnitude
UCD: phot.mag;em.opt.B
unknown UCD
Index: 6
OK
Cancel

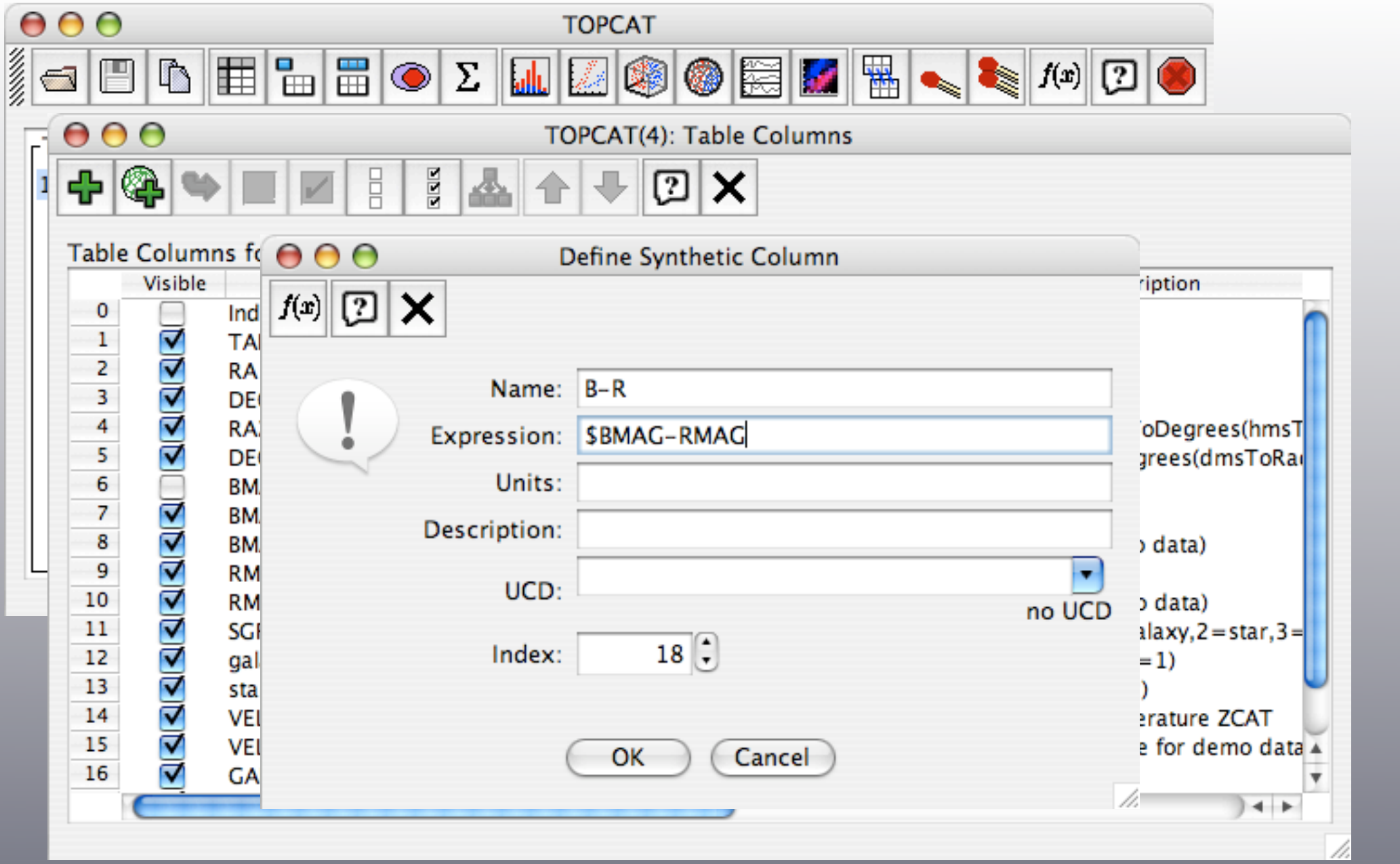

TOPCAT
TOPCAT(4): Table Columns
Table Columns fo
Visible
Define Synthetic Column
Name: BMAG
Expression: $6
Units: mag
Description: SuperCOS Bj magnitude
UCD: phot.mag;em.opt.B
unknown UCD
Index: 6
OK
Cancel

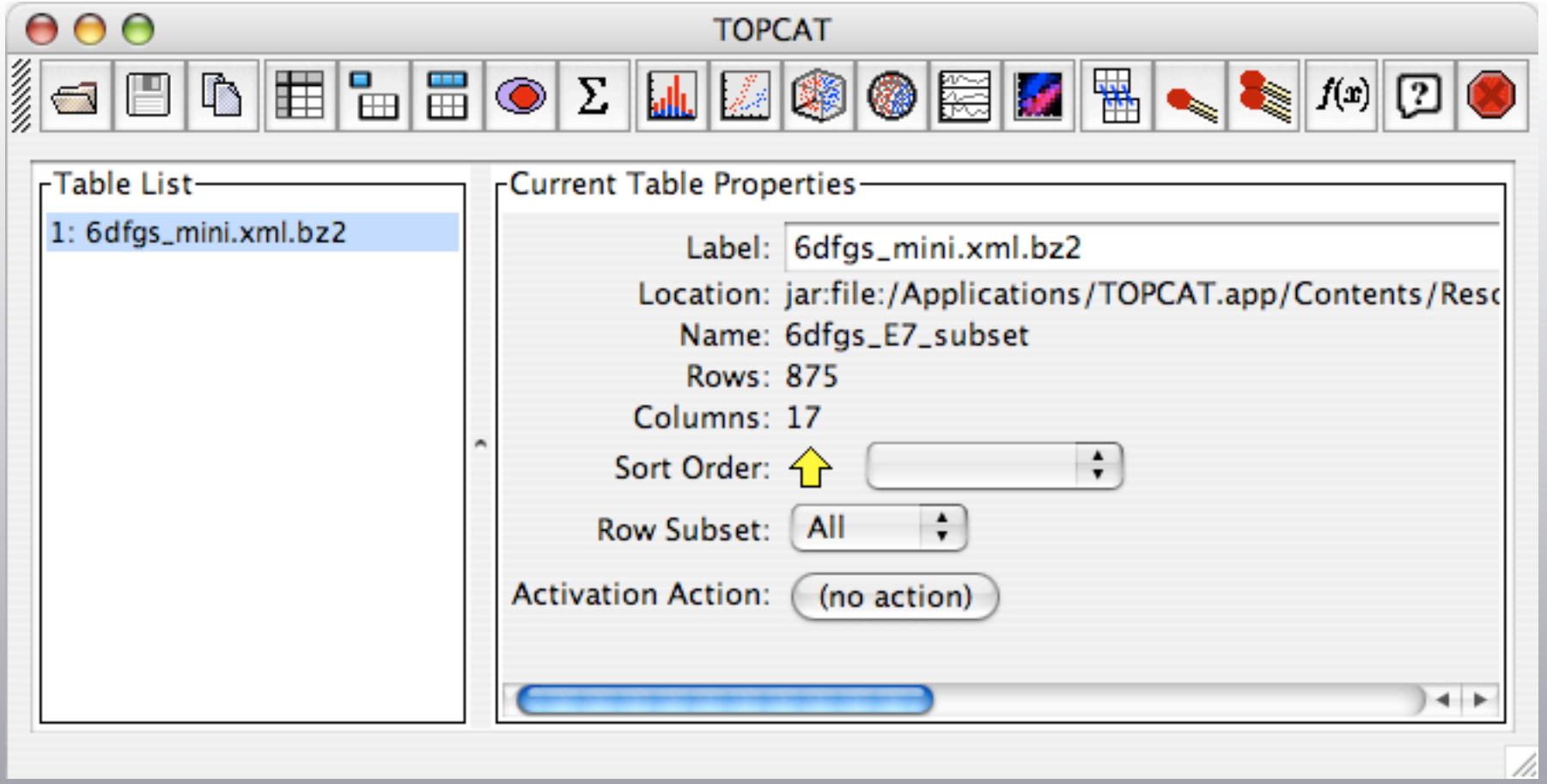


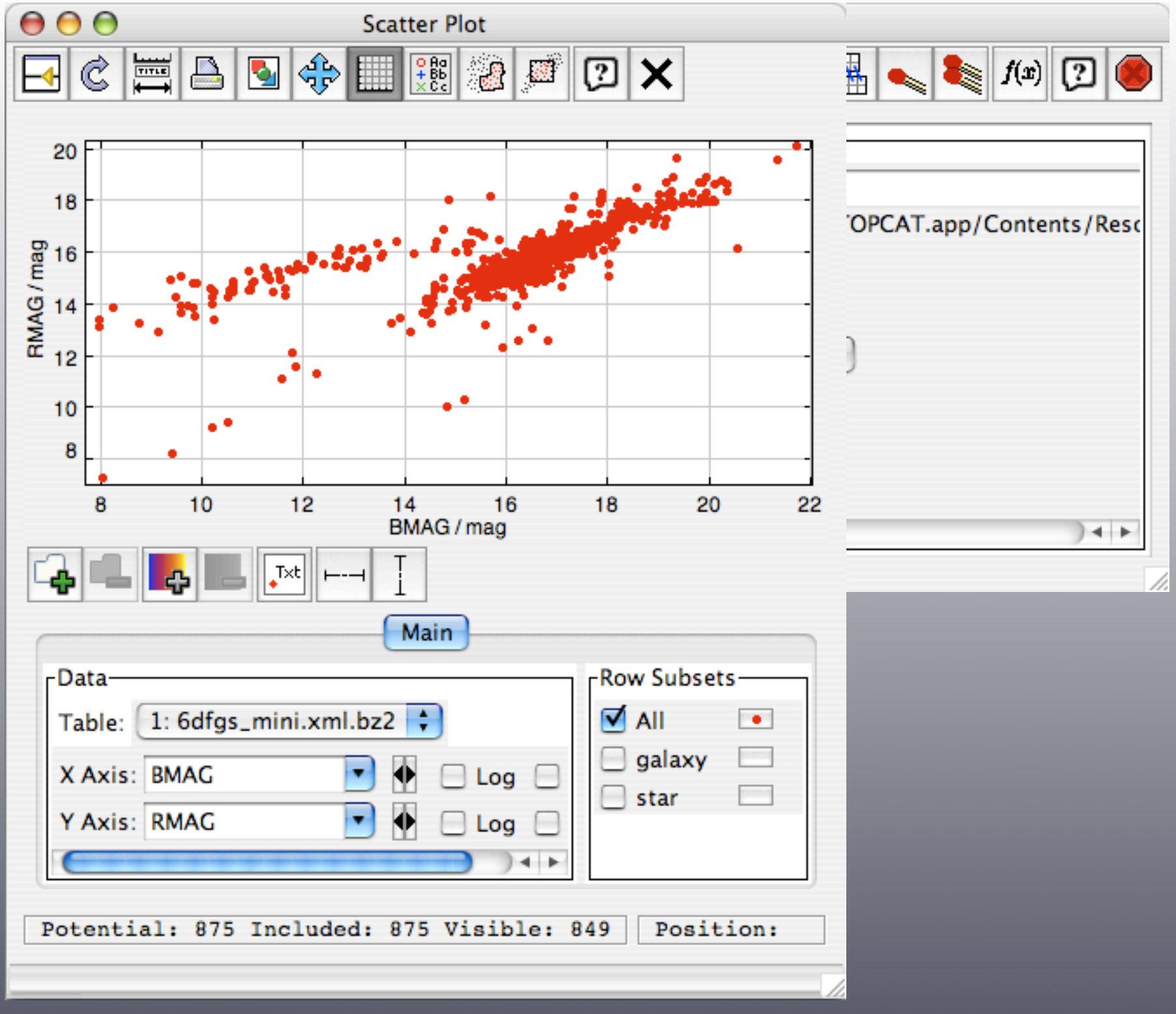
	Visible	Name	$ID	Class	Units	Description
0	☐	Index	$0	Long		Table row index
1	☑	TARGET	$1	String		Target name
2	☑	RA	$2	String	HMS	Right Ascension J2000
3	☑	DEC	$3	String	DMS	Declination J2000
4	☑	RA2000	$4	Double	degrees	Right Ascension J2000 (radiansToDegrees(hmsToRadians(R.
5	☑	DEC2000	$5	Double	degrees	Declination J2000 (radiansToDegrees(dmsToRadians(DEC)))
6	☑	BMAG	$6	Float	mag	SuperCOS Bj magnitude
7	☑	BMAG_ERR	$7	Float	mag	BMAG error (fake value for demo data)
8	☑	RMAG	$8	Float	mag	SuperCOS R magnitude
9	☑	RMAG_ERR	$9	Float	mag	RMAG error (fake value for demo data)
10	☑	SGFLAG	$10	Short		SuperCOS Star/Galaxy flag: 1=galaxy,2=star,3=unclass,4=
11	☑	galaxy	$11	Boolean		Flag indicating a galaxy (sgflag==1)
12	☑	star	$12	Boolean		Flag indicating a star (sgflag==2)
13	☑	VEL	$13	Integer	km/s	Velocity/redshift - some from literature ZCAT
14	☑	VEL_ERR	$14	Integer	km/s	Nominal velocity error (fake value for demo data)
15	☑	GAL_LONG	$15	Float	degrees	Galactic Longitude
16	☑	GAL_LAT	$16	Float	degrees	Galactic Latitude

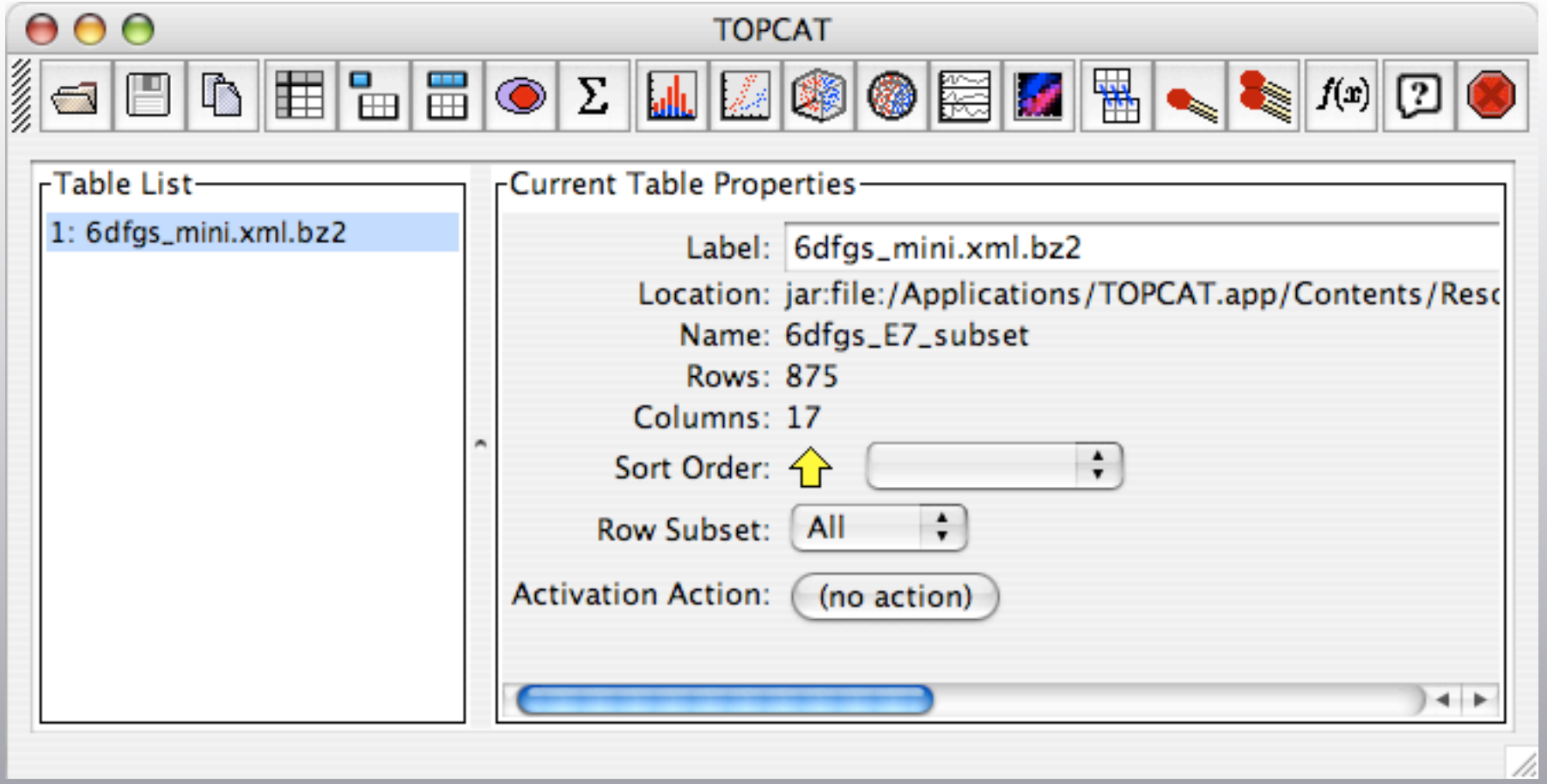


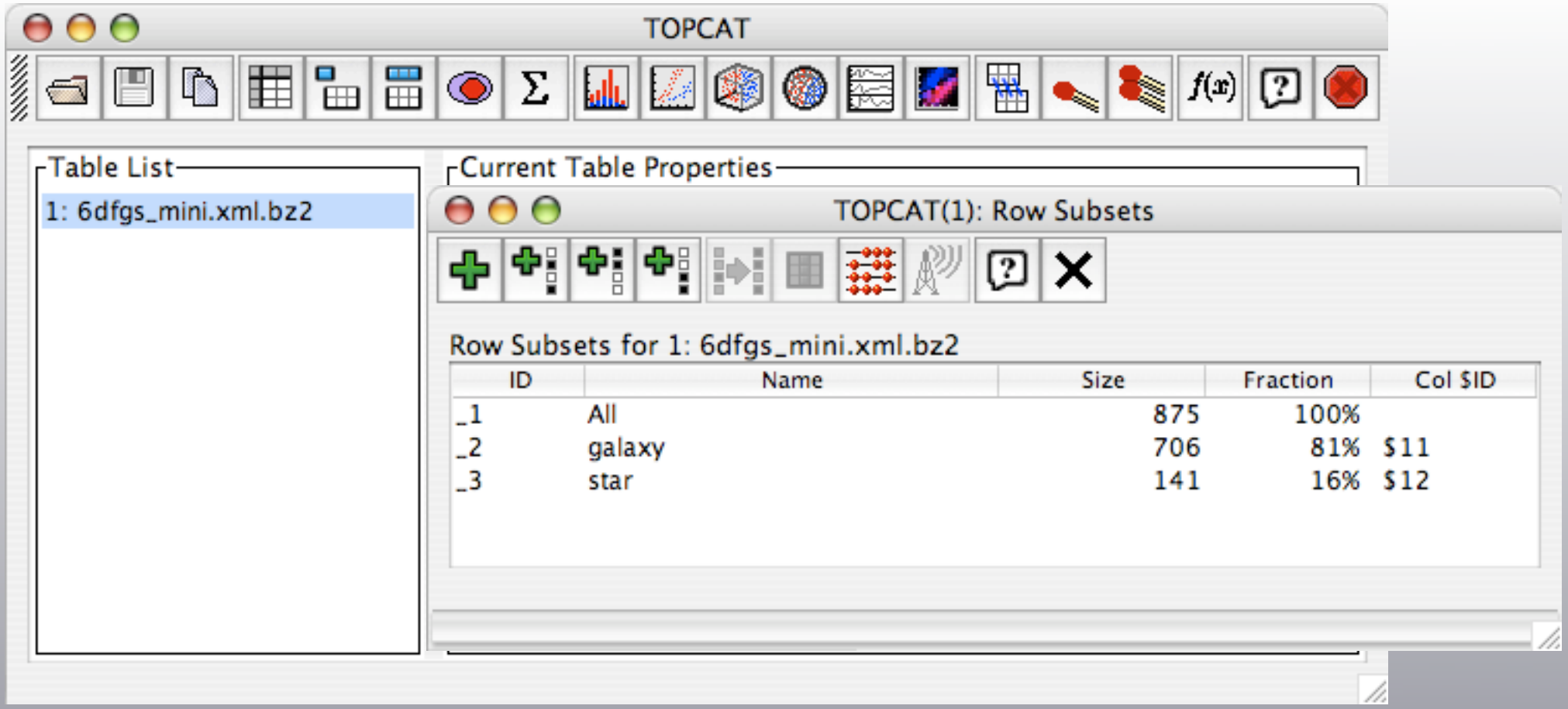
	Visible	Name	$ID	Class	Units	Expression	Description
0	☐	Index	$0	Long			Table row index
1	☑	TARGET	$1	String			Target name
2	☑	RA	$2	String	HMS		Right Ascension J2000
3	☑	DEC	$3	String	DMS		Declination J2000
4	☑	RA2000	$4	Double	degrees		Right Ascension J2000 (radiansToDegrees(hmsT
5	☑	DEC2000	$5	Double	degrees		Declination J2000 (radiansToDegrees(dmsToRa
6	☐	BMAG	$6	Float	mag		SuperCOS Bj magnitude
7	☑	BMAG (AB)	$18	Double	mag	$6+0.07	SuperCOS Bj magnitude
8	☑	BMAG_ERR	$7	Float	mag		BMAG error (fake value for demo data)
9	☑	RMAG	$8	Float	mag		SuperCOS R magnitude
10	☑	RMAG_ERR	$9	Float	mag		RMAG error (fake value for demo data)
11	☑	SGFLAG	$10	Short			SuperCOS Star/Galaxy flag: 1=galaxy,2=star,3=
12	☑	galaxy	$11	Boolean			Flag indicating a galaxy (sgflag==1)
13	☑	star	$12	Boolean			Flag indicating a star (sgflag==2)
14	☑	VEL	$13	Integer	km/s		Velocity/redshift - some from literature ZCAT
15	☑	VEL_ERR	$14	Integer	km/s		Nominal velocity error (fake value for demo data
16	☑	GAL_LONG	$15	Float	degrees		Galactic Longitude

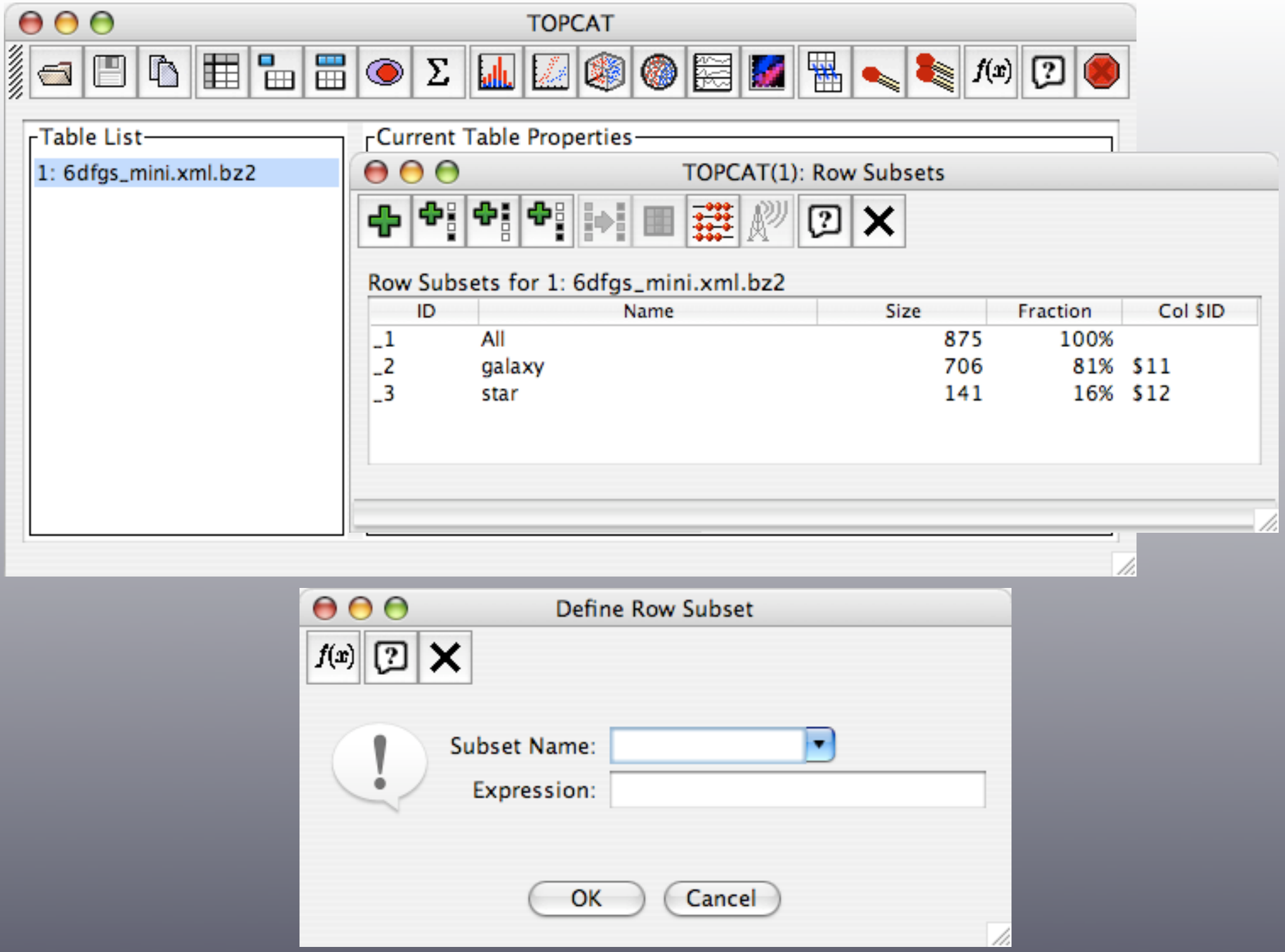

TOPCAT
TOPCAT(4): Table Columns
Table Columns fo
Visible
Define Synthetic Column
Name:
B-R
Expression:
$BMAG-RMAG
Units:
Description:
UCD:
no UCD
Index:
18
OK
Cancel

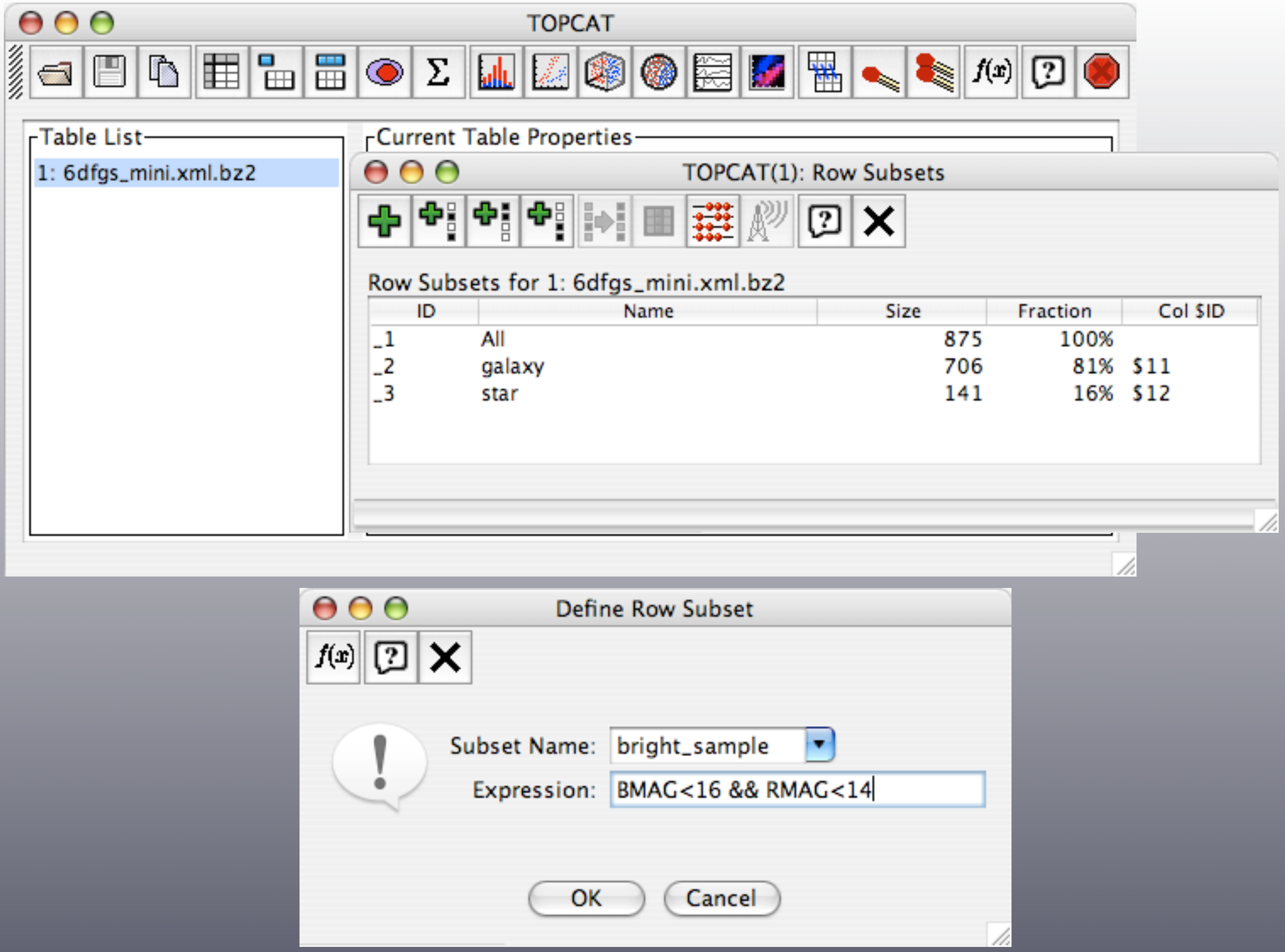

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

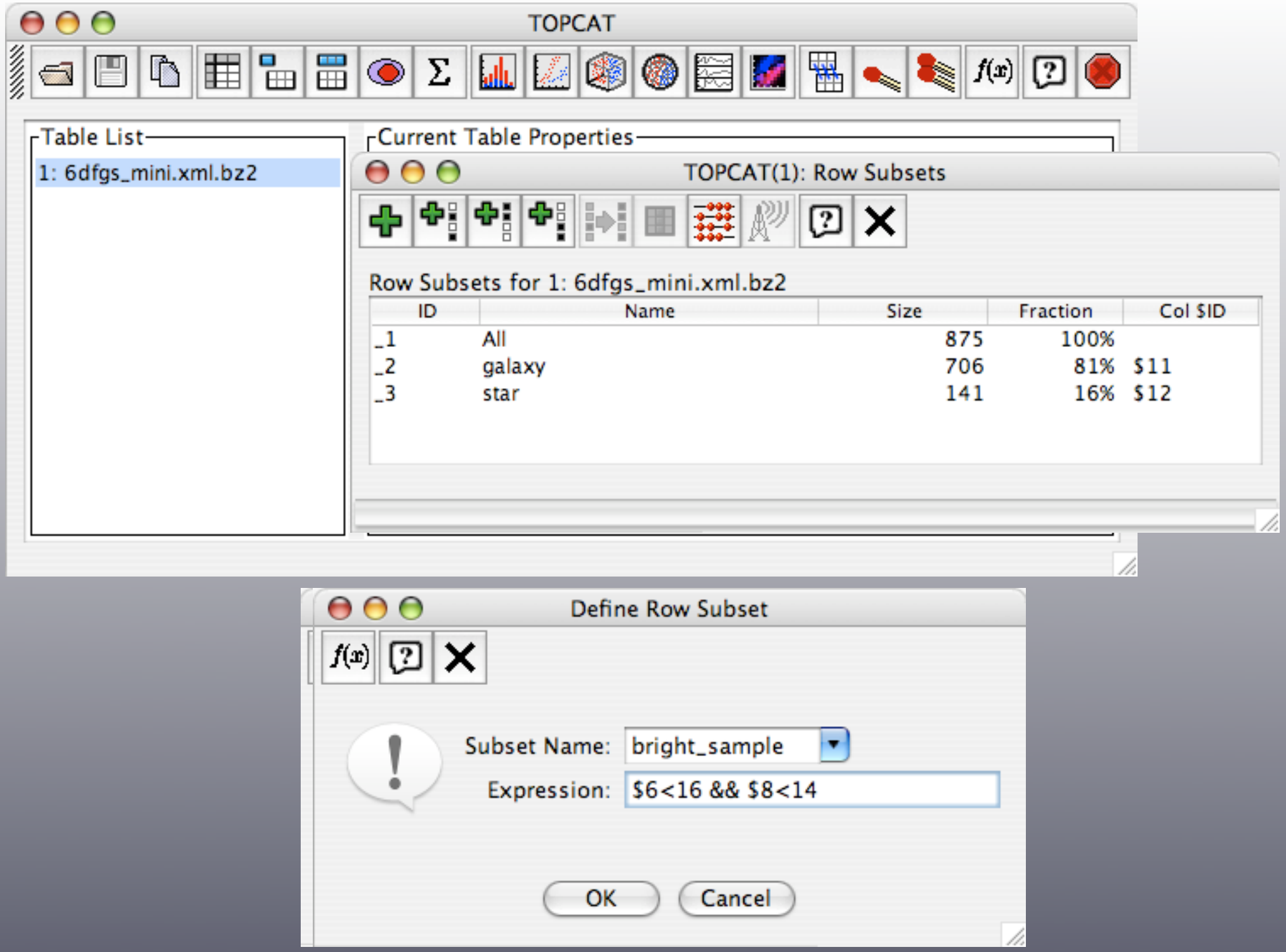

Scatter Plot
RMAG / mag
BMAG / mag
20
18
16
14
12
10
8
8
10
12
14
16
18
20
22
Txt
Main
Data
Table:
1: 6dfgs_mini.xml.bz2
X Axis:
BMAG
Log
Y Axis:
RMAG
Log
Row Subsets
All
galaxy
star
Potential: 875 Included: 875 Visible: 849
Position:
OPCAT.app/Contents/Resc

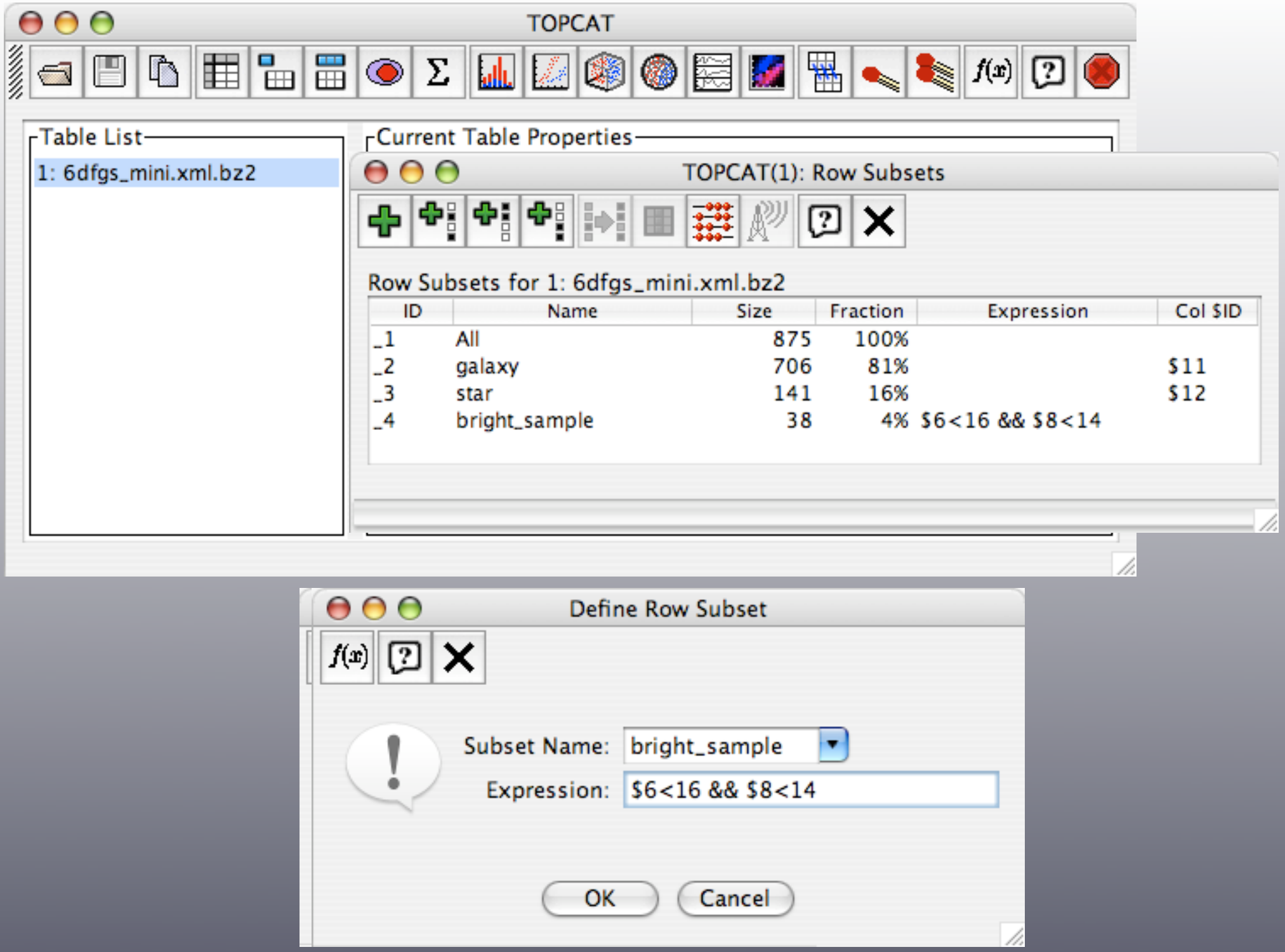

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

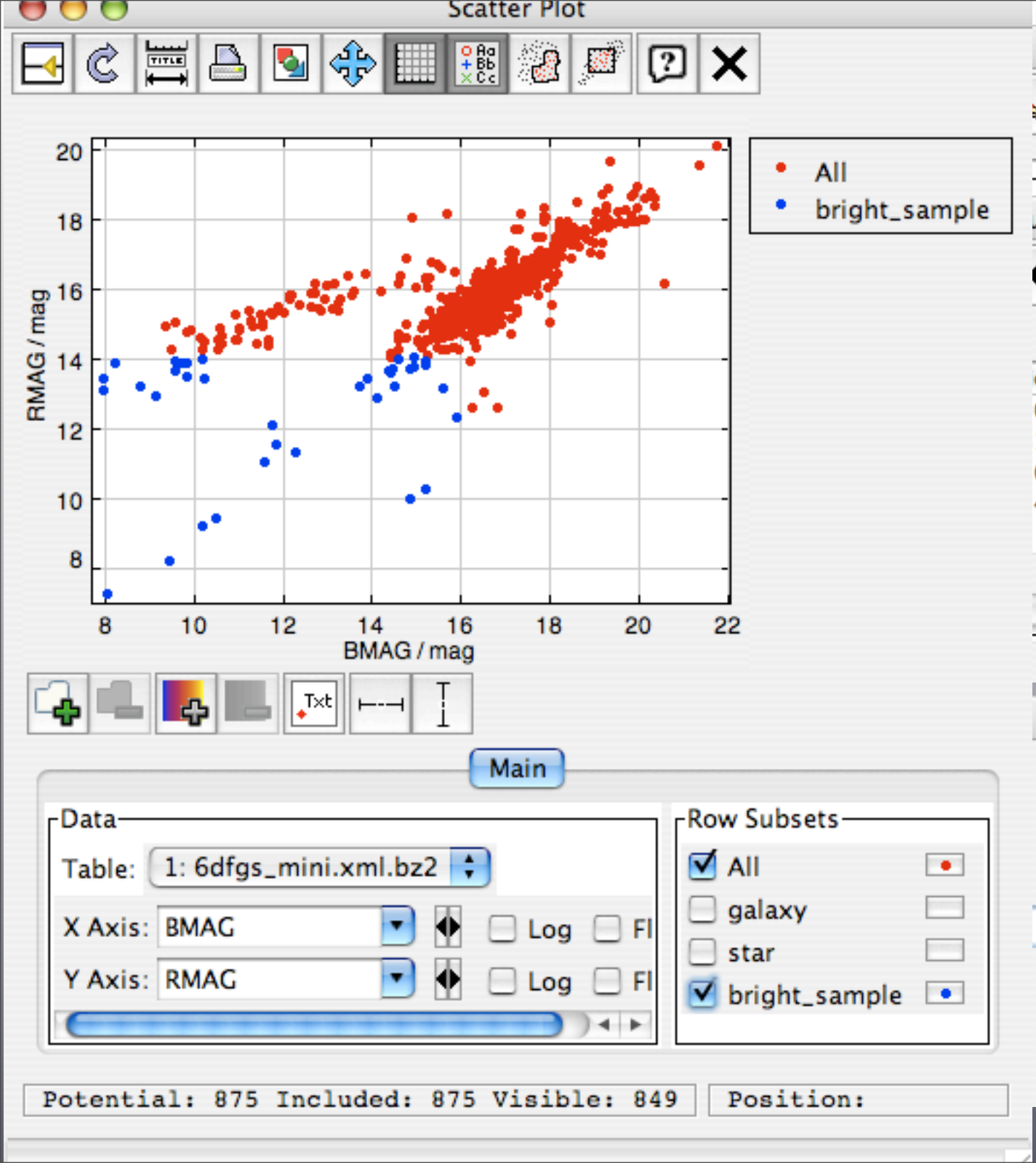

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
TOPCAT(1): Row Subsets
Row Subsets for 1: 6dfgs_mini.xml.bz2
ID
Name
Size
Fraction
Col $ID
_1
All
875
100%
_2
galaxy
706
81%
$11
_3
star
141
16%
$12

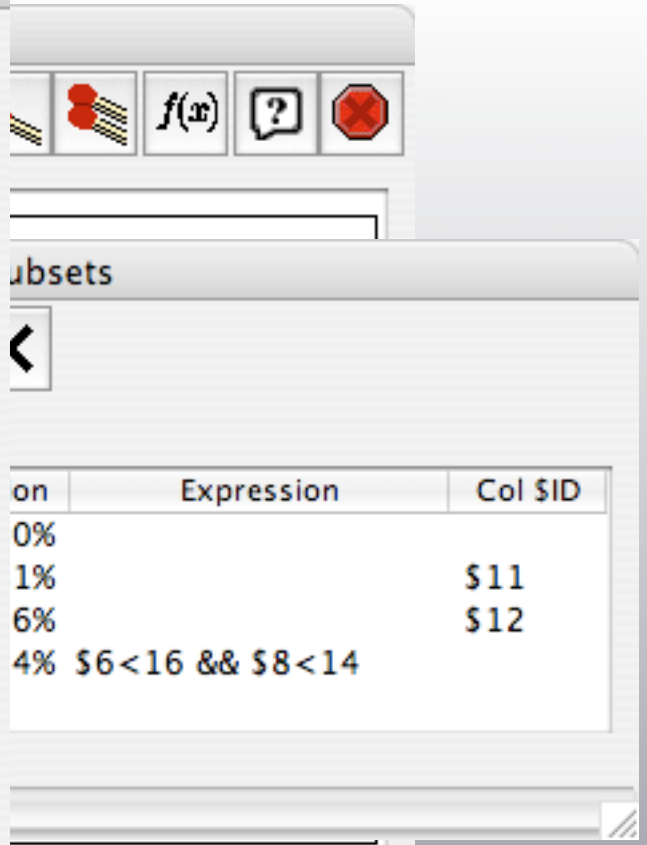

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
TOPCAT(1): Row Subsets
Row Subsets for 1: 6dfgs_mini.xml.bz2
ID
Name
Size
Fraction
Col $ID
_1
All
875
100%
_2
galaxy
706
81%
$11
_3
star
141
16%
$12
Define Row Subset
Subset Name:
Expression:
OK
Cancel

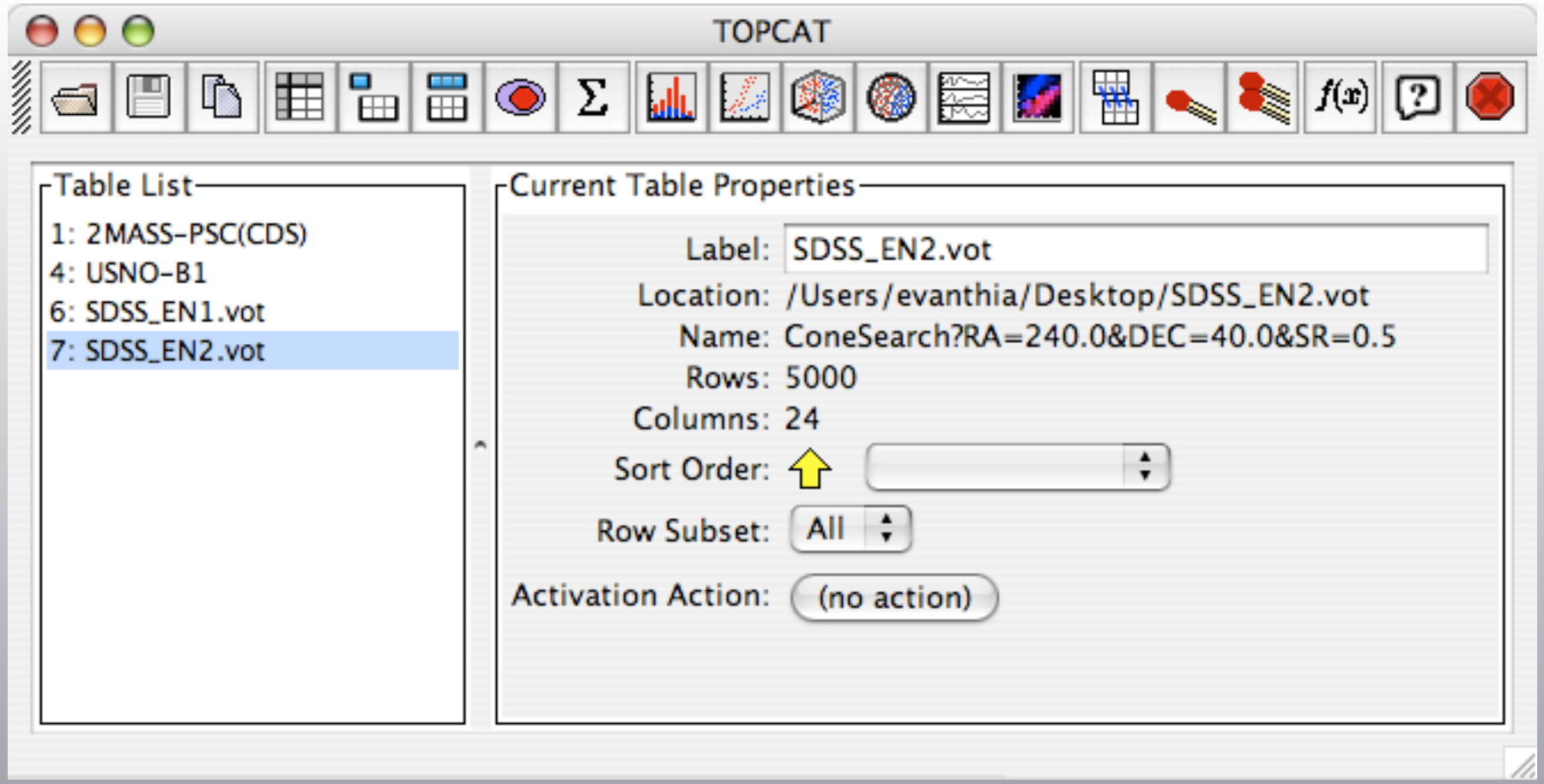

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
TOPCAT(1): Row Subsets
Row Subsets for 1: 6dfgs_mini.xml.bz2
ID
Name
Size
Fraction
Col $ID
_1
All
875
100%
_2
galaxy
706
81%
$11
_3
star
141
16%
$12
Define Row Subset
Subset Name:
bright_sample
Expression:
BMAG<16 && RMAG<14
OK
Cancel

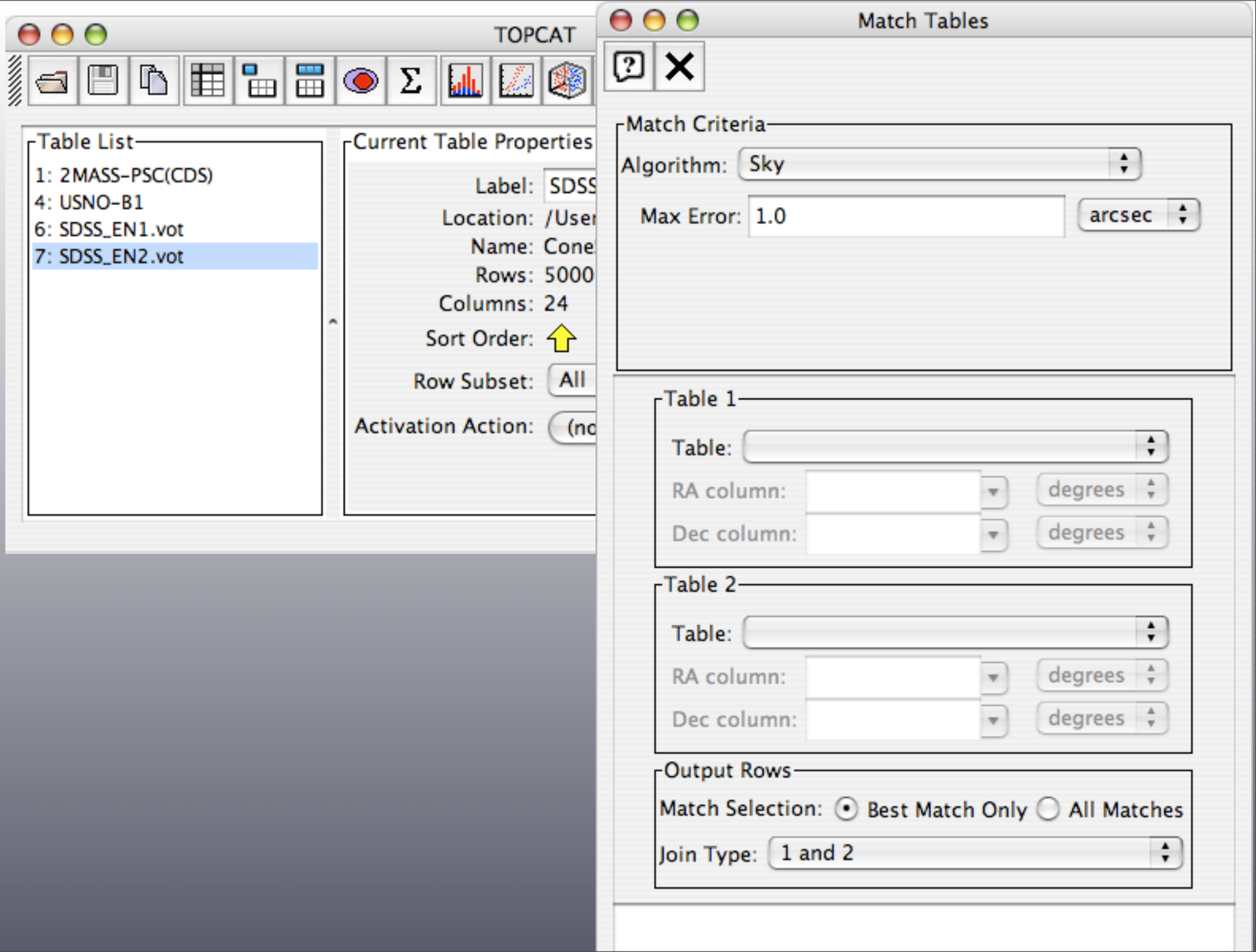

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
TOPCAT(1): Row Subsets
Row Subsets for 1: 6dfgs_mini.xml.bz2
ID
Name
Size
Fraction
Col $ID
_1
All
875
100%
_2
galaxy
706
81%
$11
_3
star
141
16%
$12
Define Row Subset
Subset Name:
bright_sample
Expression:
$6<16 && $8<14
OK
Cancel

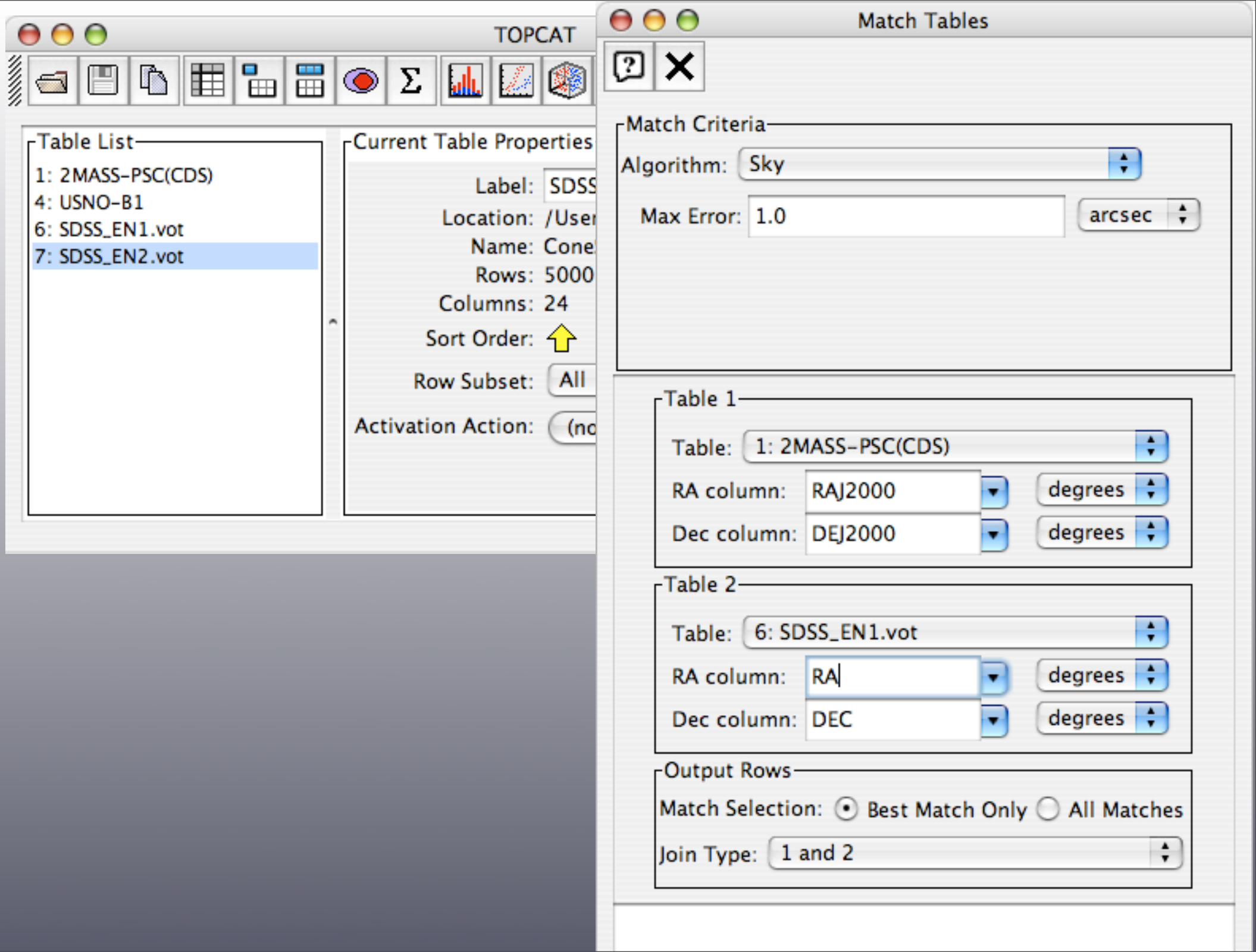

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
TOPCAT(1): Row Subsets
Row Subsets for 1: 6dfgs_mini.xml.bz2
ID Name Size Fraction Expression Col $ID
_1 All 875 100%
_2 galaxy 706 81% $11
_3 star 141 16% $12
_4 bright_sample 38 4% $6<16 && $8<14
Define Row Subset
Subset Name: bright_sample
Expression: $6<16 && $8<14
OK
Cancel

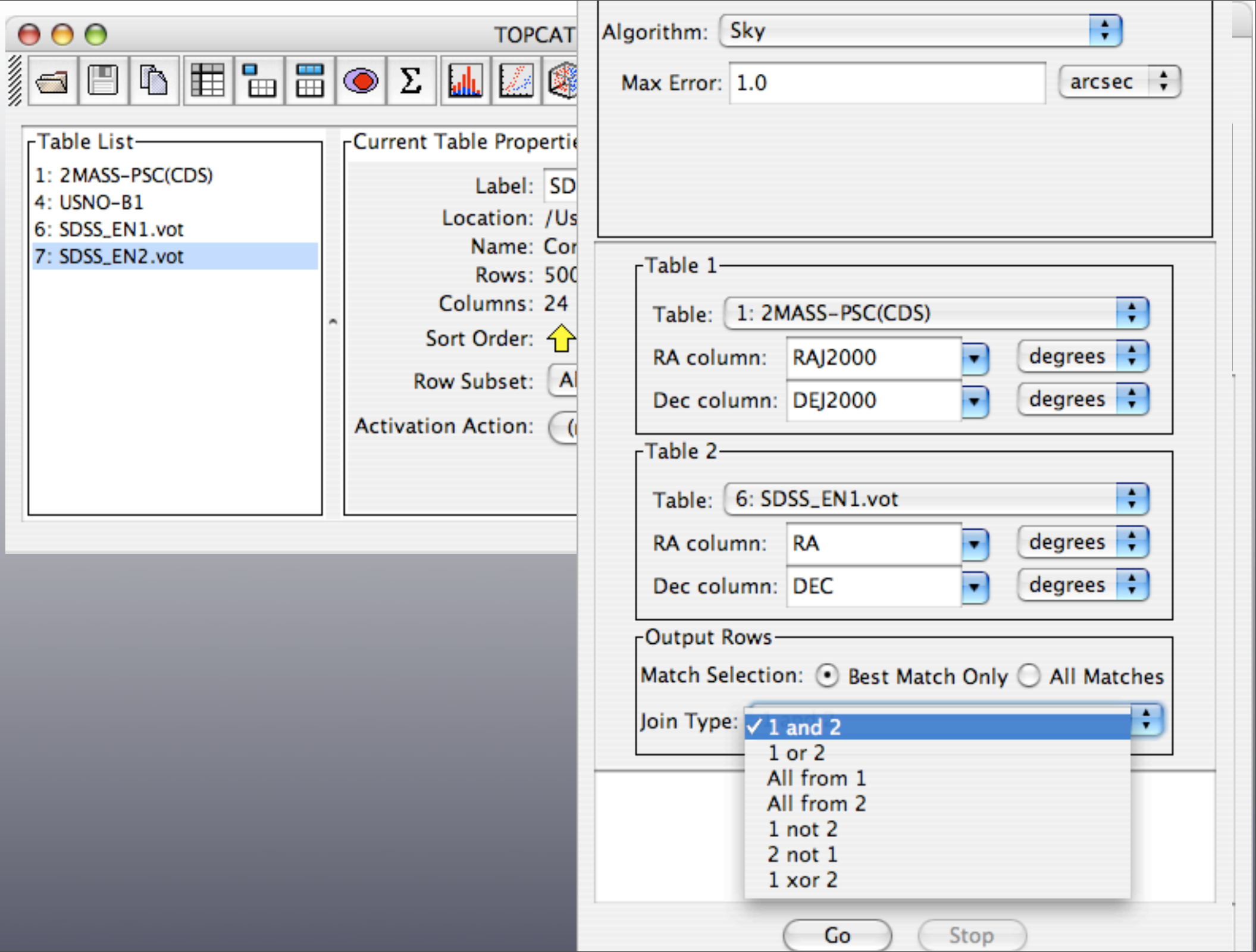

Scatter Plot
All
bright_sample
RMAG / mag
BMAG / mag
20
18
16
14
12
10
8
8
10
12
14
16
18
20
22
Txt
Main
Data
Table:
1: 6dfgs_mini.xml.bz2
X Axis:
BMAG
Log
Fl
Y Axis:
RMAG
Log
Fl
Row Subsets
All
galaxy
star
bright_sample
Potential: 875 Included: 875 Visible: 849
Position:

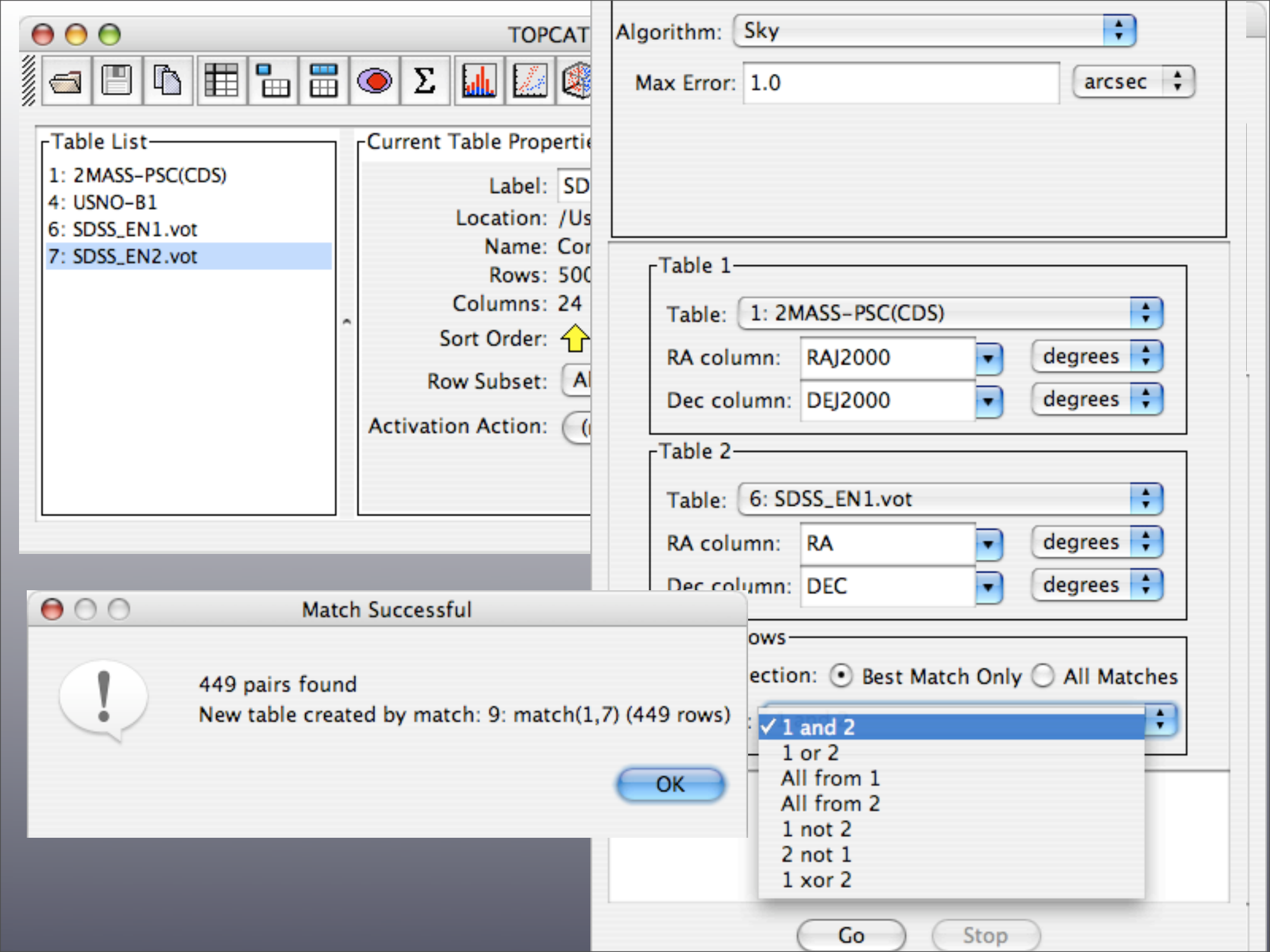

ubsets
on
Expression
Col $ID
0%
1%
$11
6%
$12
4%
$6<16 && $8<14

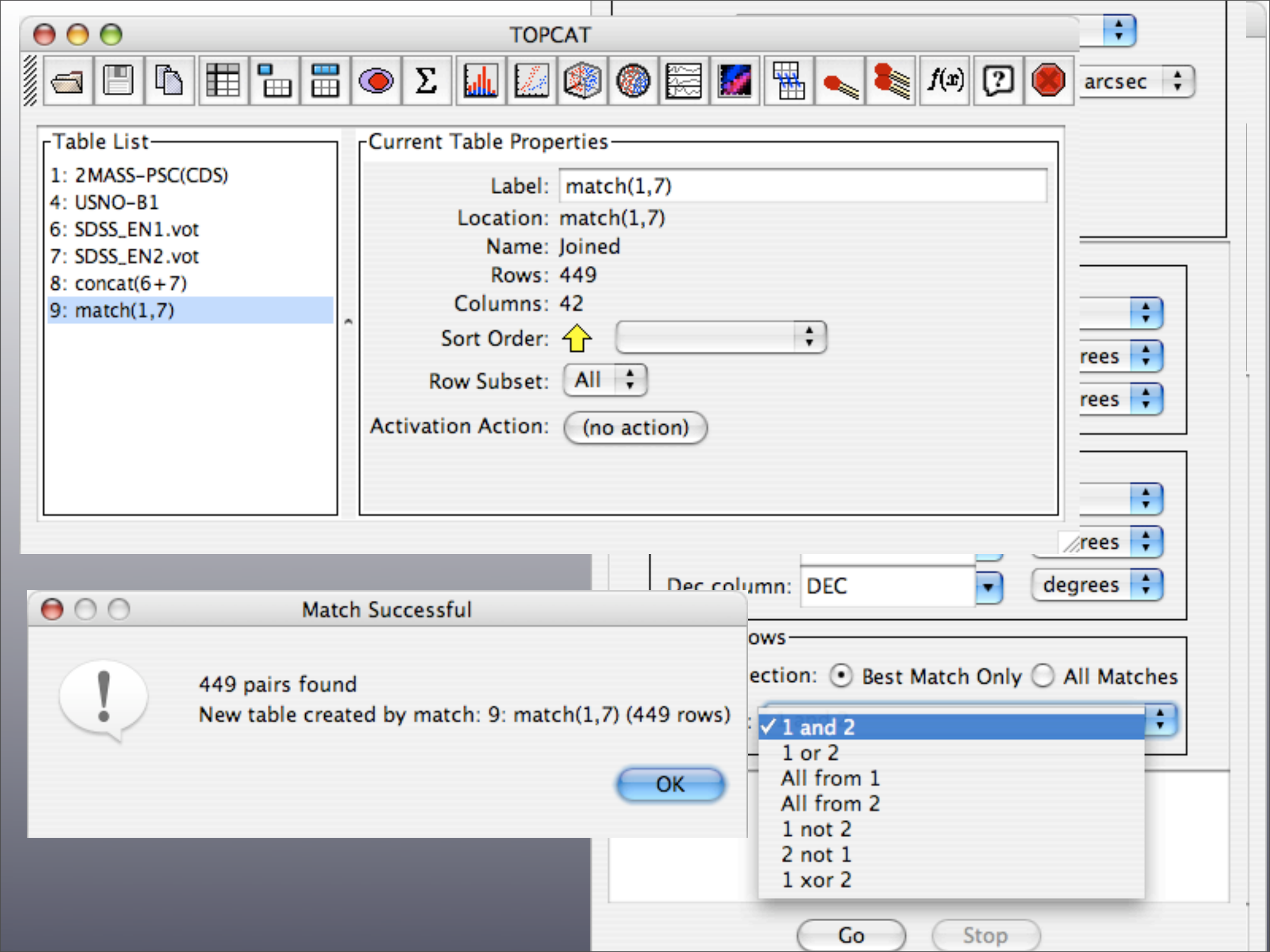

TOPCAT
Table List
1: 2MASS-PSC(CDS)
4: USNO-B1
6: SDSS_EN1.vot
7: SDSS_EN2.vot
Current Table Properties
Label: SDSS_EN2.vot
Location: /Users/evanthia/Desktop/SDSS_EN2.vot
Name: ConeSearch?RA=240.0&DEC=40.0&SR=0.5
Rows: 5000
Columns: 24
Sort Order:
Row Subset: All
Activation Action: (no action)

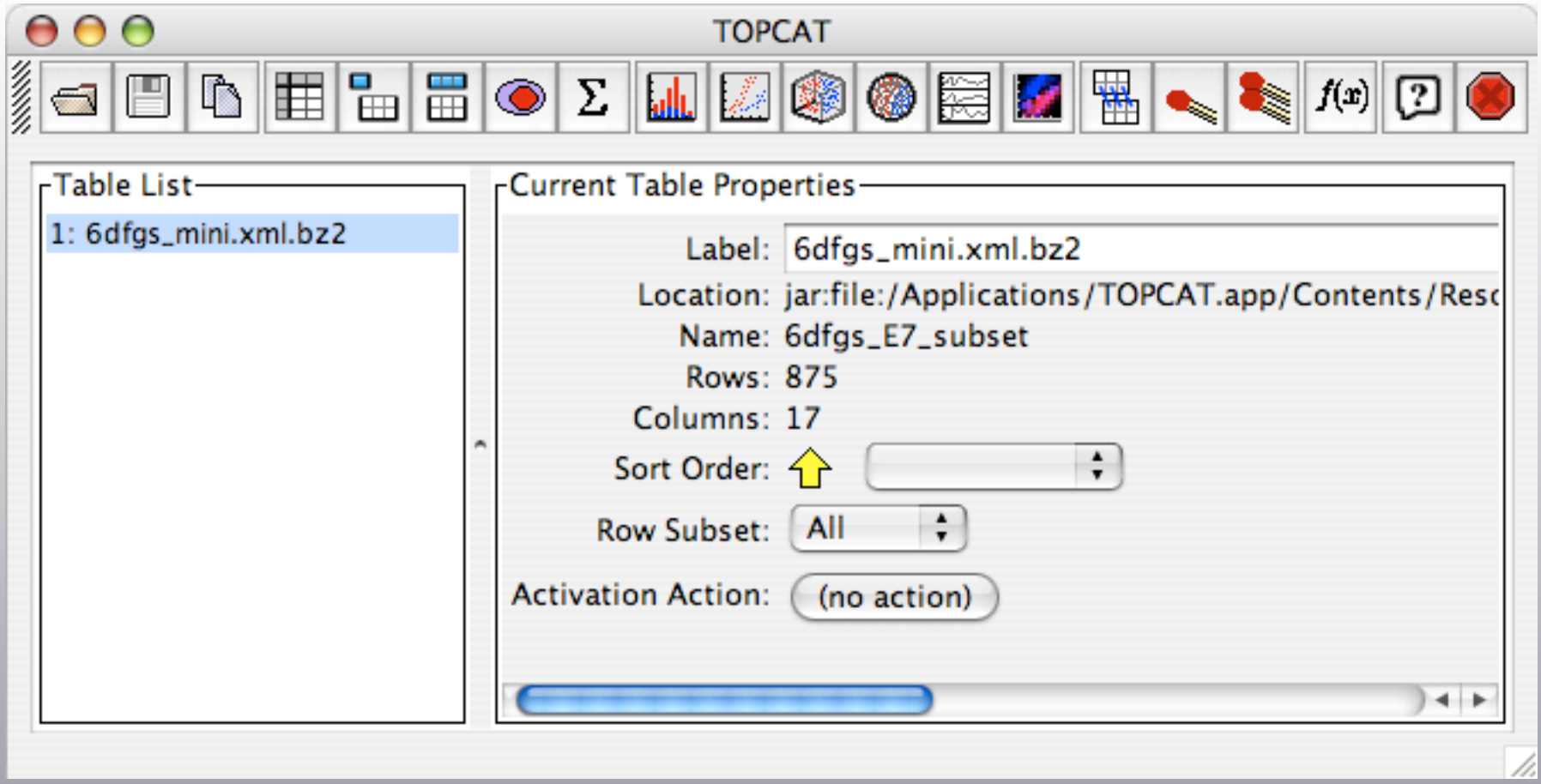

TOPCAT
Table List
1: 2MASS-PSC(CDS)
4: USNO-B1
6: SDSS_EN1.vot
7: SDSS_EN2.vot
Current Table Properties
Label: SDSS
Location: /User
Name: Cone
Rows: 5000
Columns: 24
Sort Order:
Row Subset: All
Activation Action: (nc
Match Tables
Match Criteria
Algorithm: Sky
Max Error: 1.0
arcsec
Table 1
Table:
RA column:
degrees
Dec column:
degrees
Table 2
Table:
RA column:
degrees
Dec column:
degrees
Output Rows
Match Selection: Best Match Only All Matches
Join Type: 1 and 2

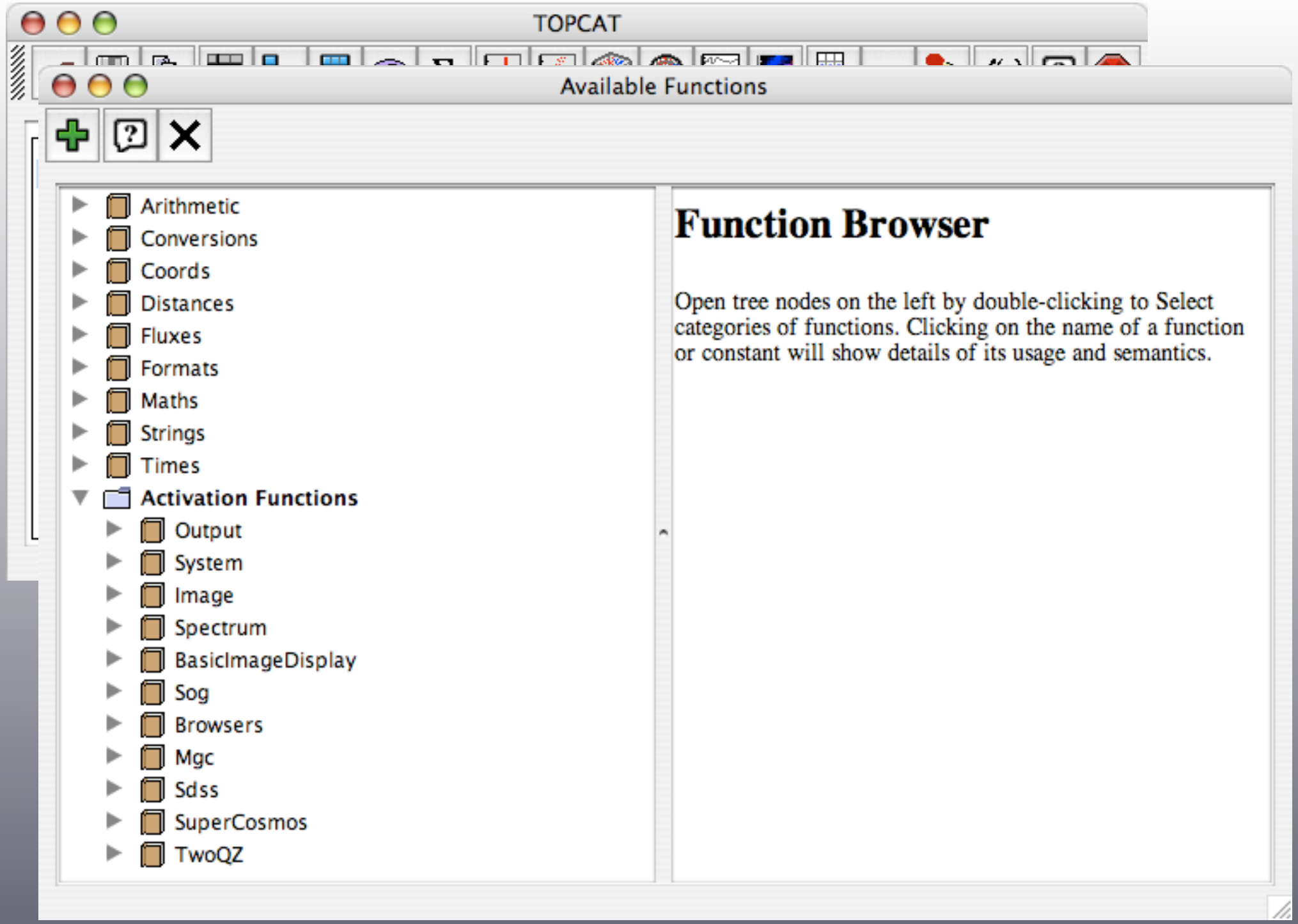

TOPCAT
Table List
1: 2MASS-PSC(CDS)
4: USNO-B1
6: SDSS_EN1.vot
7: SDSS_EN2.vot
Current Table Properties
Label: SDSS
Location: /User
Name: Cone
Rows: 5000
Columns: 24
Sort Order:
Row Subset: All
Activation Action: (no
Match Tables
Match Criteria
Algorithm: Sky
Max Error: 1.0
arcsec
Table 1
Table: 1: 2MASS-PSC(CDS)
RA column: RAJ2000
degrees
Dec column: DEJ2000
degrees
Table 2
Table: 6: SDSS_EN1.vot
RA column: RA
degrees
Dec column: DEC
degrees
Output Rows
Match Selection: Best Match Only All Matches
Join Type: 1 and 2

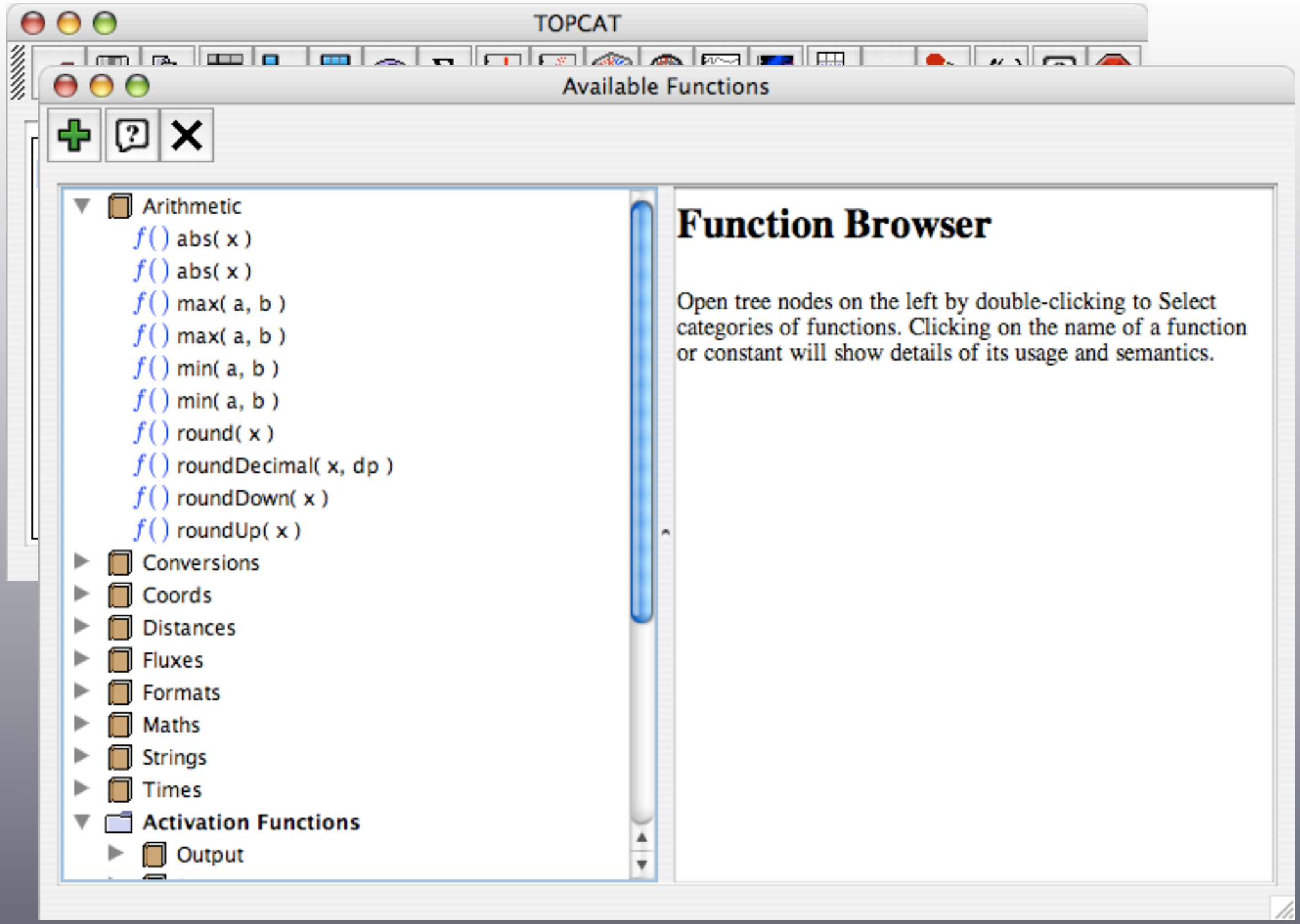

TOPCAT
Table List
1: 2MASS-PSC(CDS)
4: USNO-B1
6: SDSS_EN1.vot
7: SDSS_EN2.vot
Current Table Properti
Label: SD
Location: /Us
Name: Cor
Rows: 500
Columns: 24
Sort Order:
Row Subset: Al
Activation Action:
Algorithm: Sky
Max Error: 1.0
arcsec
Table 1
Table: 1: 2MASS-PSC(CDS)
RA column: RAJ2000
degrees
Dec column: DEJ2000
degrees
Table 2
Table: 6: SDSS_EN1.vot
RA column: RA
degrees
Dec column: DEC
degrees
Output Rows
Match Selection: Best Match Only All Matches
Join Type: 1 and 2
1 or 2
All from 1
All from 2
1 not 2
2 not 1
1 xor 2
Go
Stop

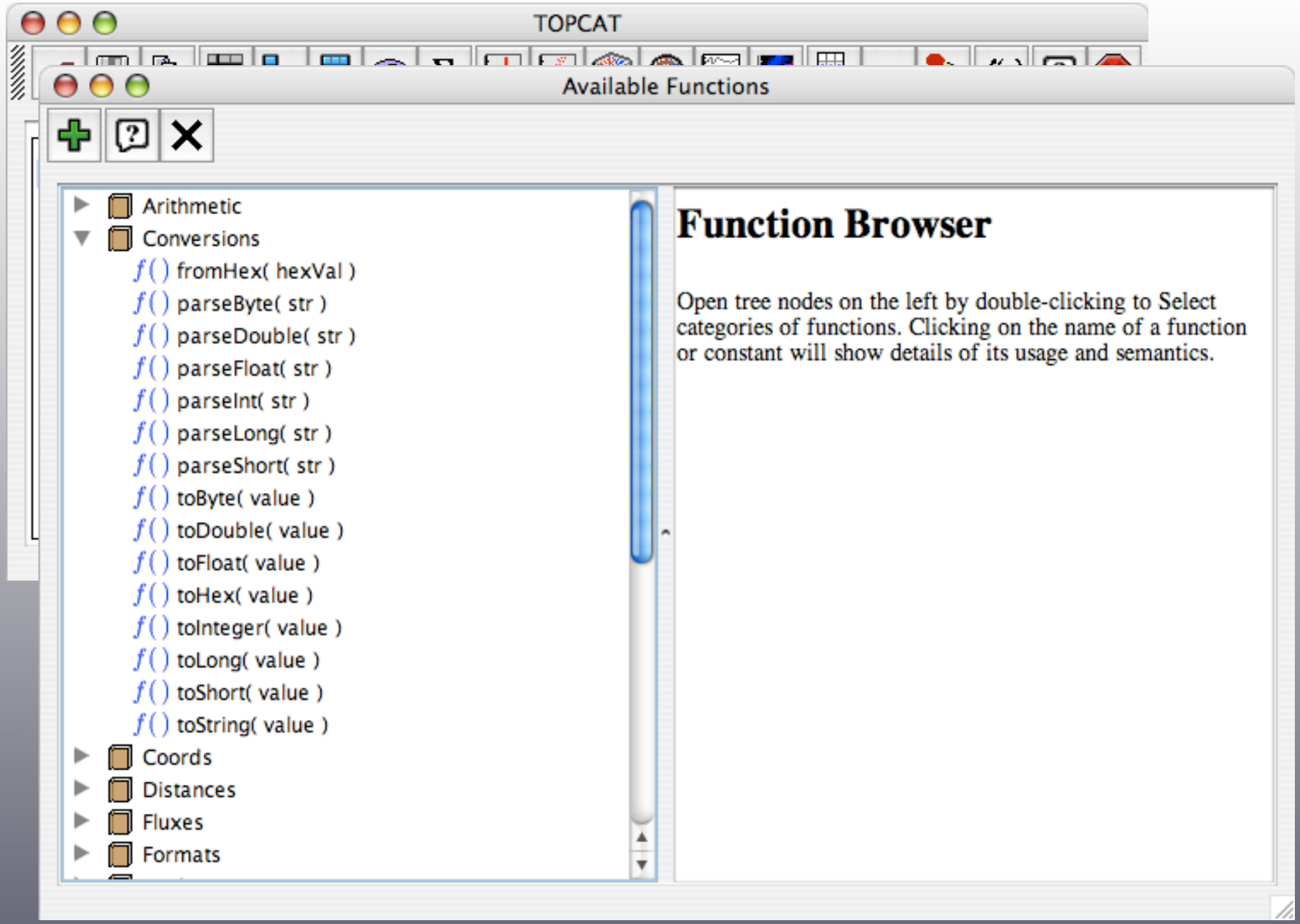

TOPCAT
Table List
1: 2MASS-PSC(CDS)
4: USNO-B1
6: SDSS_EN1.vot
7: SDSS_EN2.vot
Current Table Properti
Label: SD
Location: /Us
Name: Cor
Rows: 500
Columns: 24
Sort Order:
Row Subset: Al
Activation Action:
Algorithm: Sky
Max Error: 1.0
arcsec
Table 1
Table: 1: 2MASS-PSC(CDS)
RA column: RAJ2000
degrees
Dec column: DEJ2000
degrees
Table 2
Table: 6: SDSS_EN1.vot
RA column: RA
degrees
Dec column: DEC
degrees
ows
ection: Best Match Only All Matches
1 and 2
1 or 2
All from 1
All from 2
1 not 2
2 not 1
1 xor 2
Go
Stop
Match Successful
449 pairs found
New table created by match: 9: match(1,7) (449 rows)
OK

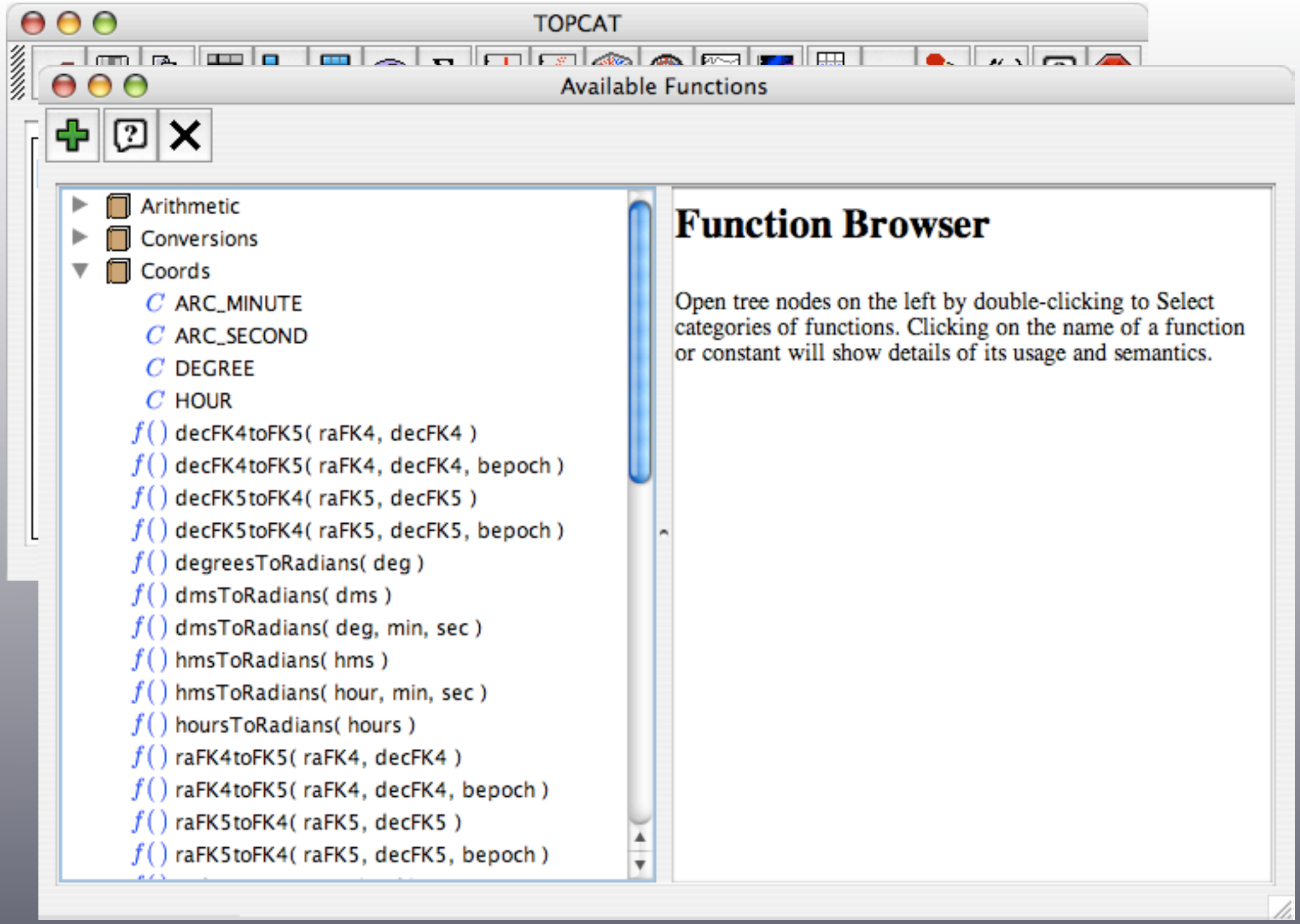

TOPCAT
Table List
1: 2MASS-PSC(CDS)
4: USNO-B1
6: SDSS_EN1.vot
7: SDSS_EN2.vot
8: concat(6+7)
9: match(1,7)
Current Table Properties
Label: match(1,7)
Location: match(1,7)
Name: Joined
Rows: 449
Columns: 42
Sort Order:
Row Subset: All
Activation Action: (no action)
arcsec
rees
rees
rees
Dec column: DEC
degrees
ows
ection: Best Match Only All Matches
1 and 2
1 or 2
All from 1
All from 2
1 not 2
2 not 1
1 xor 2
Go
Stop
Match Successful
449 pairs found
New table created by match: 9: match(1,7) (449 rows)
OK

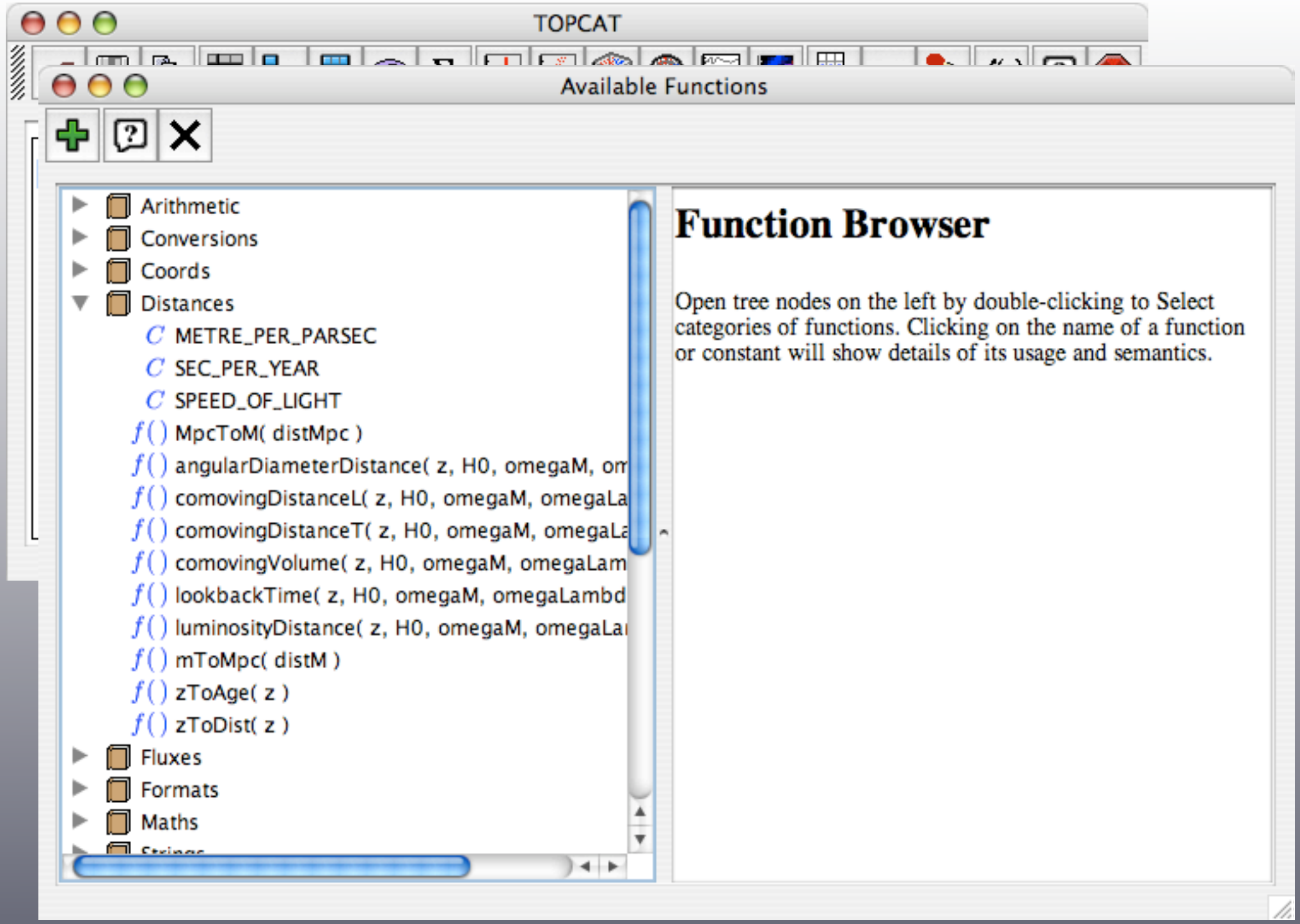

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

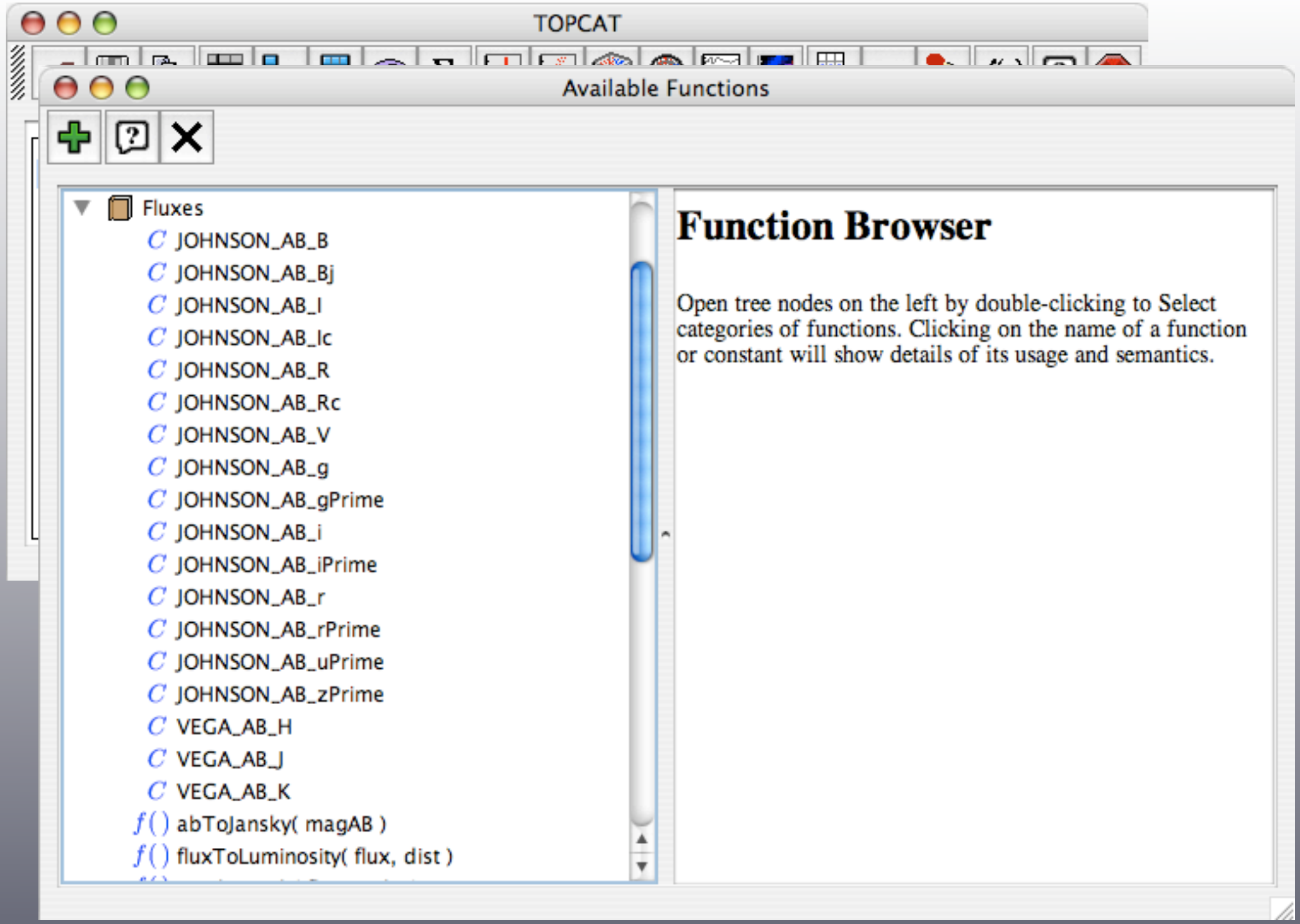

TOPCAT
Available Functions
Arithmetic
Conversions
Coords
Distances
Fluxes
Formats
Maths
Strings
Times
Activation Functions
Output
System
Image
Spectrum
BasicImageDisplay
Sog
Browsers
Mgc
Sdss
SuperCosmos
TwoQZ
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

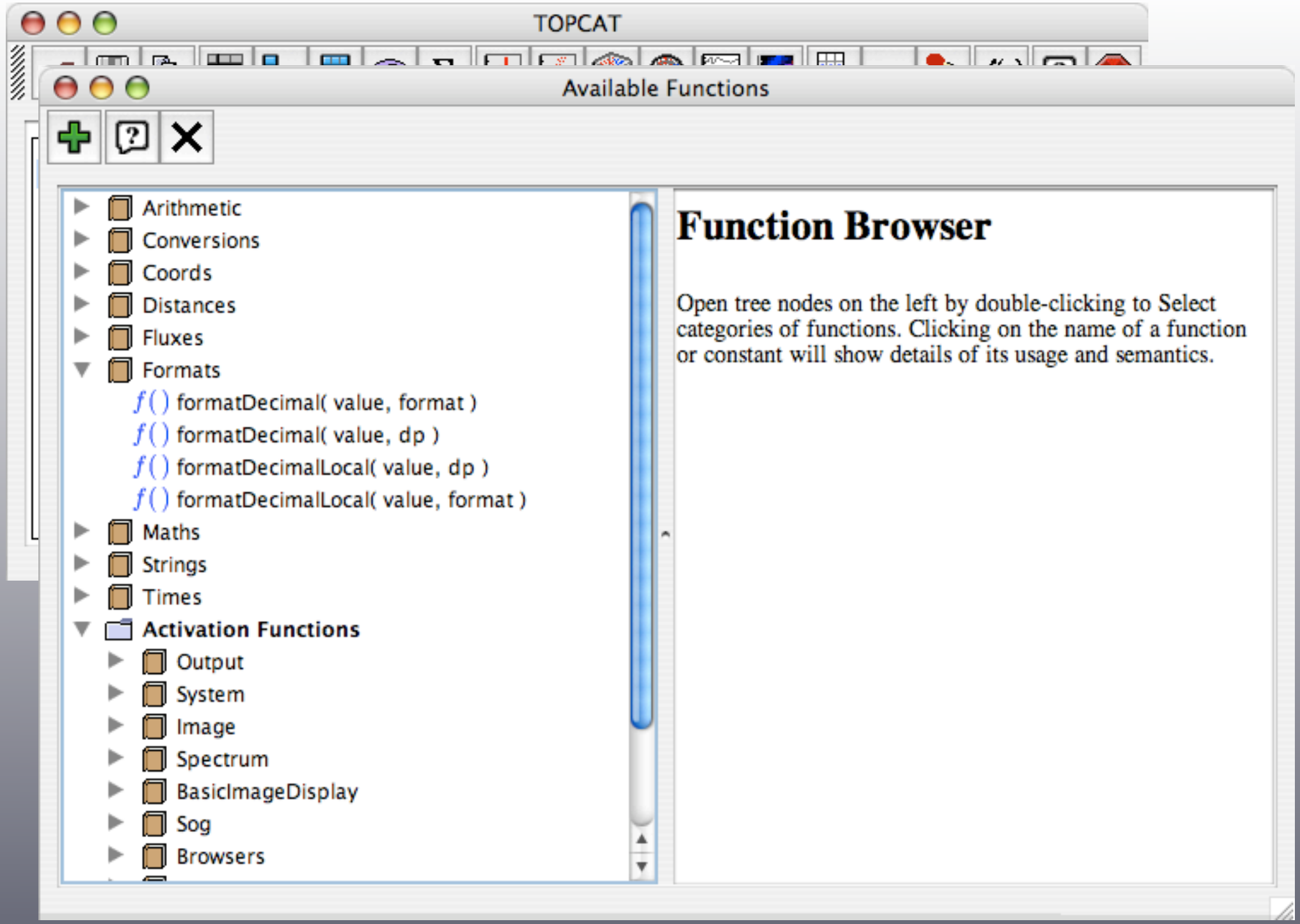

TOPCAT
Available Functions
Arithmetic
f( ) abs(x)
f( ) abs(x)
f( ) max(a, b)
f( ) max(a, b)
f( ) min(a, b)
f( ) min(a, b)
f( ) round(x)
f( ) roundDecimal(x, dp)
f( ) roundDown(x)
f( ) roundUp(x)
Conversions
Coords
Distances
Fluxes
Formats
Maths
Strings
Times
Activation Functions
Output
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

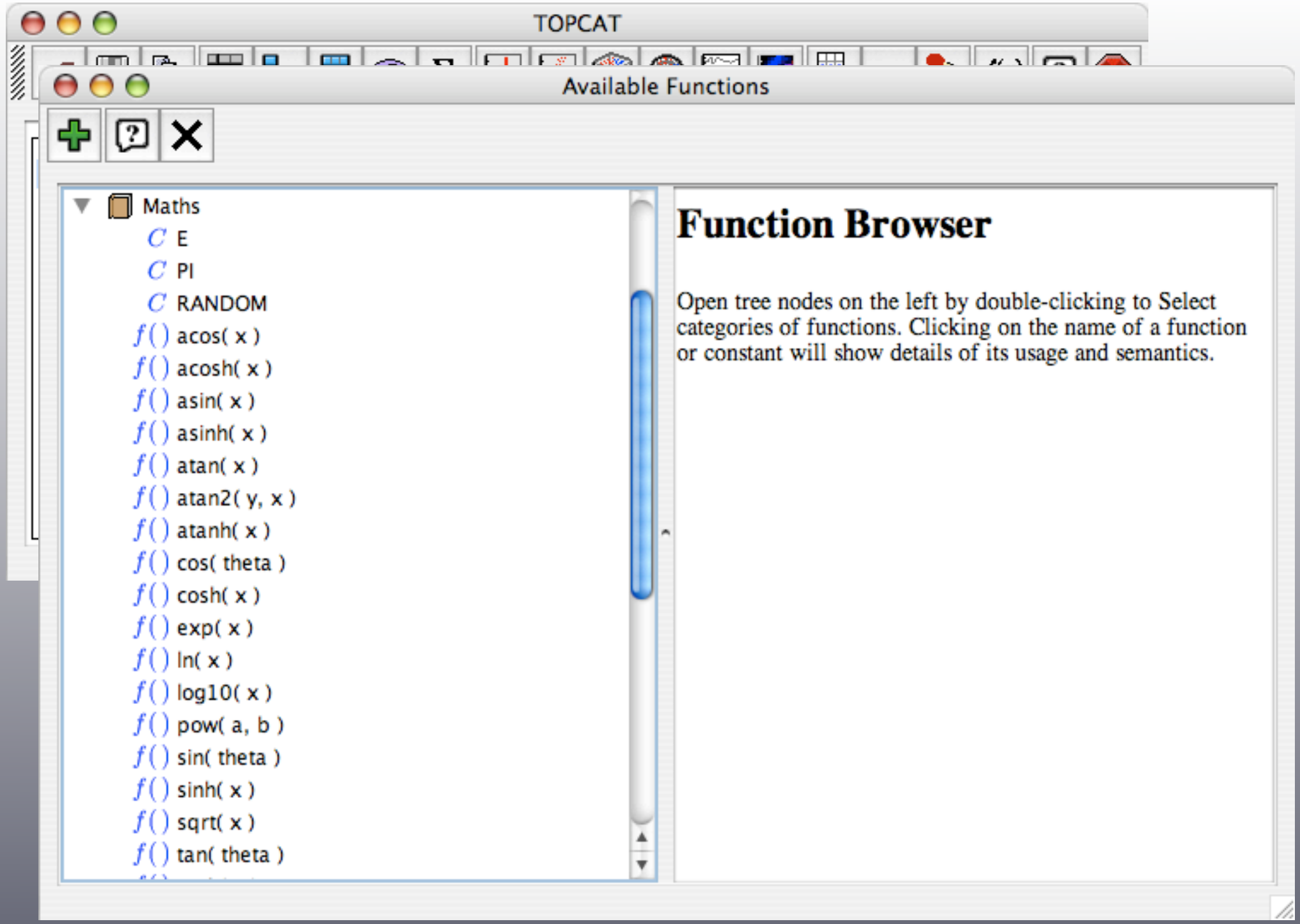

TOPCAT
Available Functions
Arithmetic
Conversions
fromHex(hexVal)
parseByte(str)
parseDouble(str)
parseFloat(str)
parseInt(str)
parseLong(str)
parseShort(str)
toByte(value)
toDouble(value)
toFloat(value)
toHex(value)
toInteger(value)
toLong(value)
toShort(value)
toString(value)
Coords
Distances
Fluxes
Formats
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

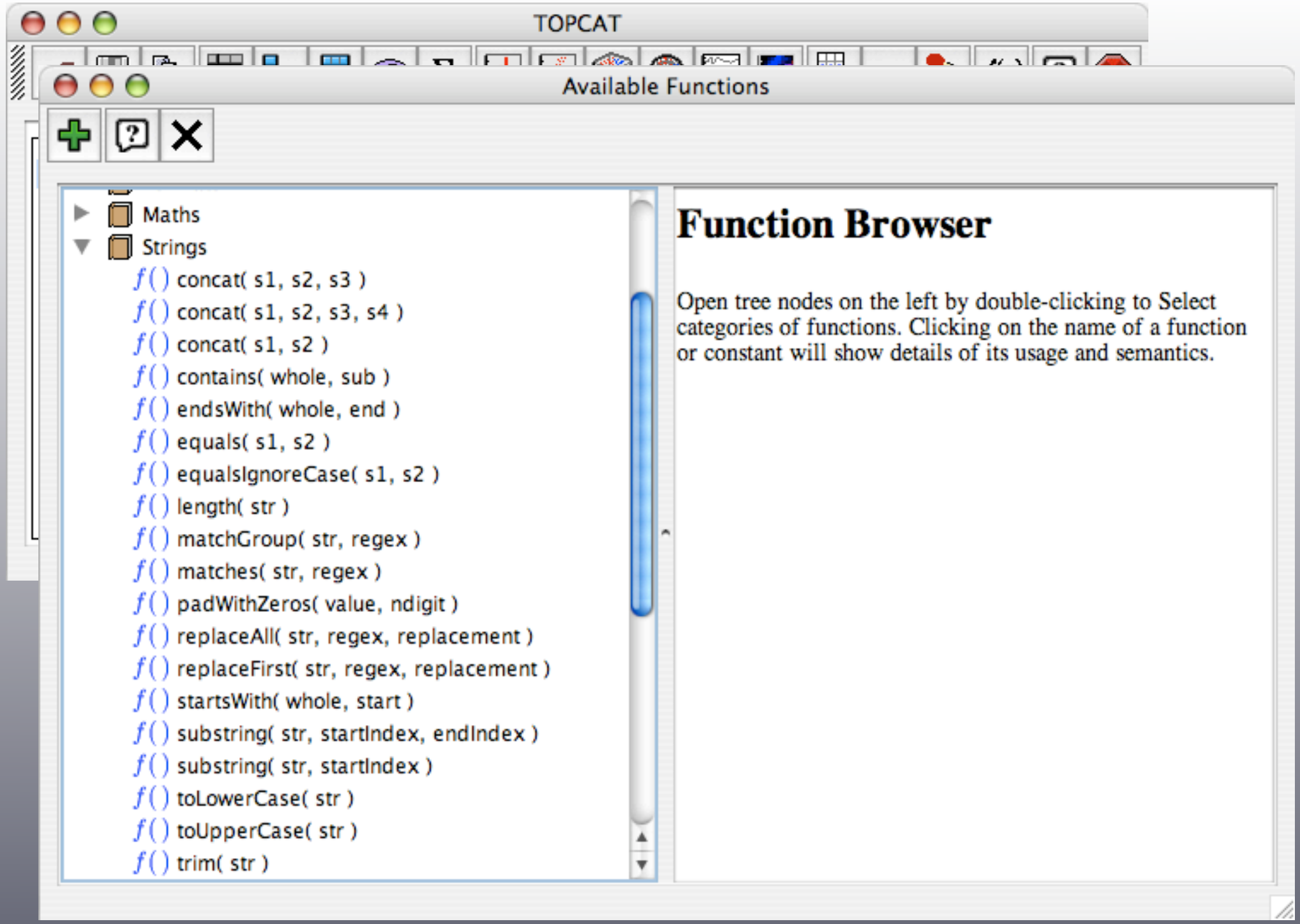

TOPCAT
Available Functions
Arithmetic
Conversions
Coords
ARC_MINUTE
ARC_SECOND
DEGREE
HOUR
decFK4toFK5(raFK4, decFK4)
decFK4toFK5(raFK4, decFK4, bepoch)
decFK5toFK4(raFK5, decFK5)
decFK5toFK4(raFK5, decFK5, bepoch)
degreesToRadians(deg)
dmsToRadians(dms)
dmsToRadians(deg, min, sec)
hmsToRadians(hms)
hmsToRadians(hour, min, sec)
hoursToRadians(hours)
raFK4toFK5(raFK4, decFK4)
raFK4toFK5(raFK4, decFK4, bepoch)
raFK5toFK4(raFK5, decFK5)
raFK5toFK4(raFK5, decFK5, bepoch)
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

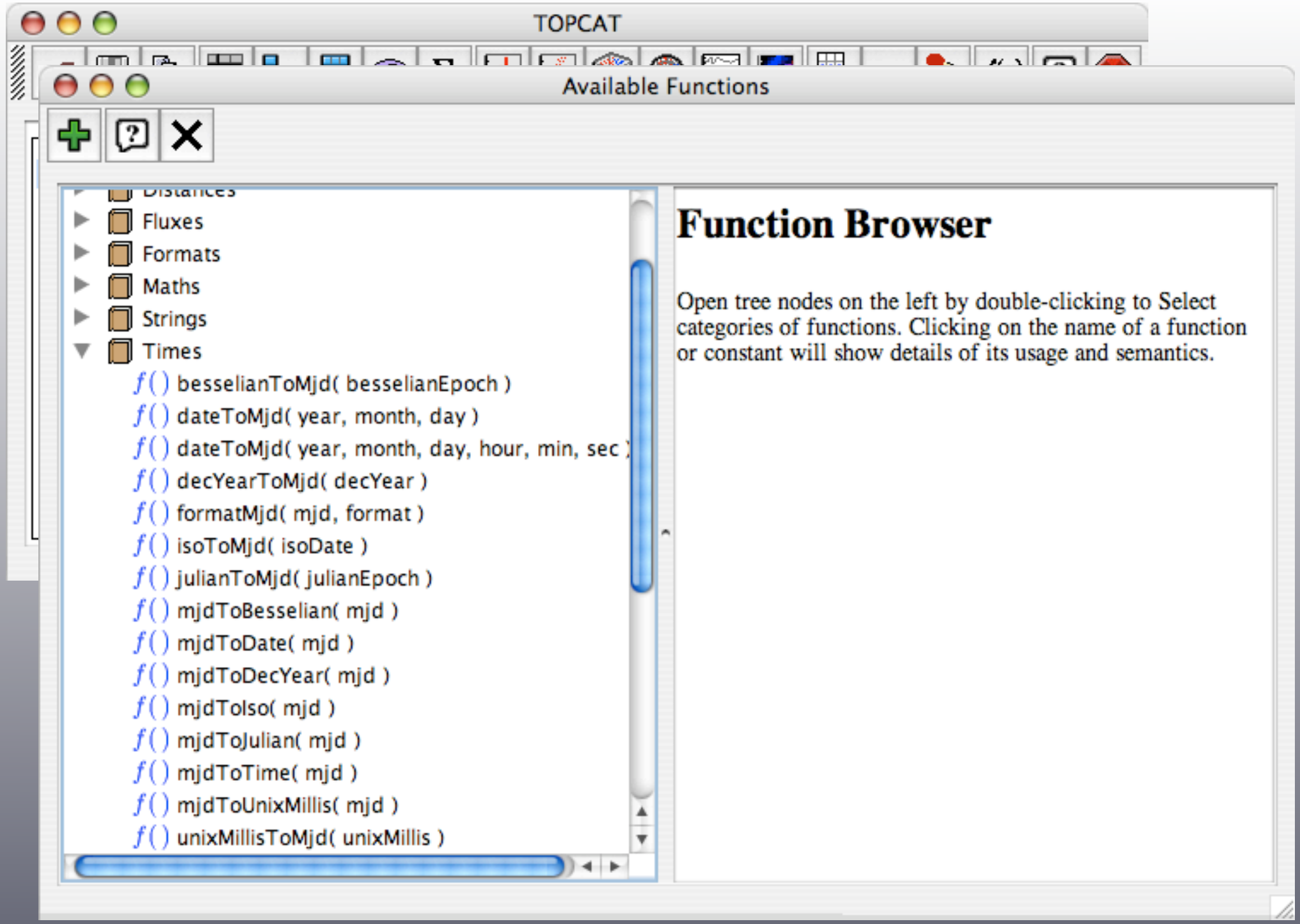

TOPCAT
Available Functions
Arithmetic
Conversions
Coords
Distances
METRE_PER_PARSEC
SEC_PER_YEAR
SPEED_OF_LIGHT
MpcToM(distMpc)
angularDiameterDistance(z, H0, omegaM, om
comovingDistanceL(z, H0, omegaM, omegaLa
comovingDistanceT(z, H0, omegaM, omegaLa
comovingVolume(z, H0, omegaM, omegaLam
lookbackTime(z, H0, omegaM, omegaLambd
luminosityDistance(z, H0, omegaM, omegaLa
mToMpc(distM)
zToAge(z)
zToDist(z)
Fluxes
Formats
Maths
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

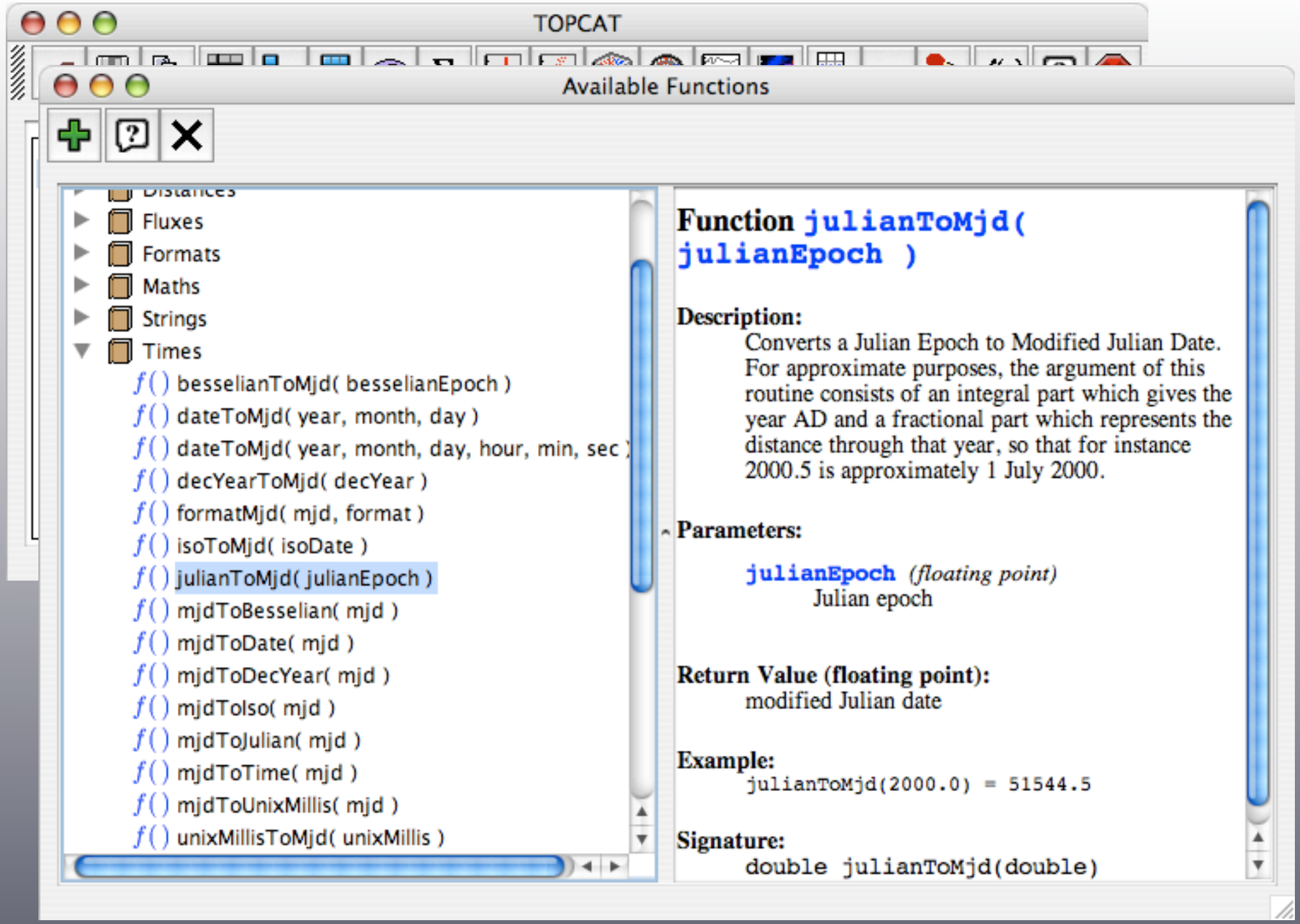

TOPCAT
Available Functions
Fluxes
JOHNSON_AB_B
JOHNSON_AB_Bj
JOHNSON_AB_I
JOHNSON_AB_Ic
JOHNSON_AB_R
JOHNSON_AB_Rc
JOHNSON_AB_V
JOHNSON_AB_g
JOHNSON_AB_gPrime
JOHNSON_AB_i
JOHNSON_AB_iPrime
JOHNSON_AB_r
JOHNSON_AB_rPrime
JOHNSON_AB_uPrime
JOHNSON_AB_zPrime
VEGA_AB_H
VEGA_AB_J
VEGA_AB_K
abToJansky(magAB)
fluxToLuminosity(flux, dist)
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

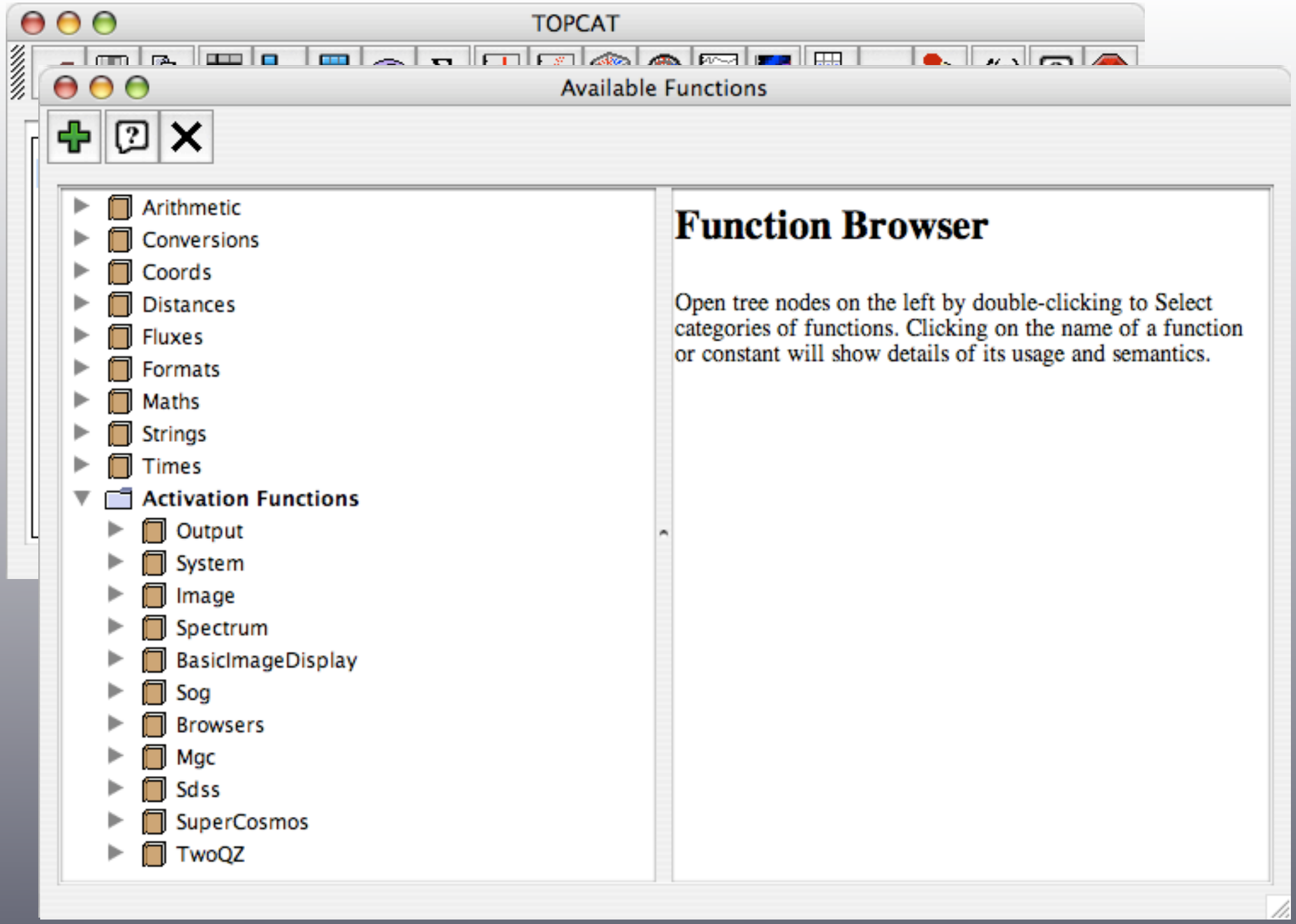

TOPCAT
Available Functions
Arithmetic
Conversions
Coords
Distances
Fluxes
Formats
f( ) formatDecimal(value, format)
f( ) formatDecimal(value, dp)
f( ) formatDecimalLocal(value, dp)
f( ) formatDecimalLocal(value, format)
Maths
Strings
Times
Activation Functions
Output
System
Image
Spectrum
BasicImageDisplay
Sog
Browsers
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.

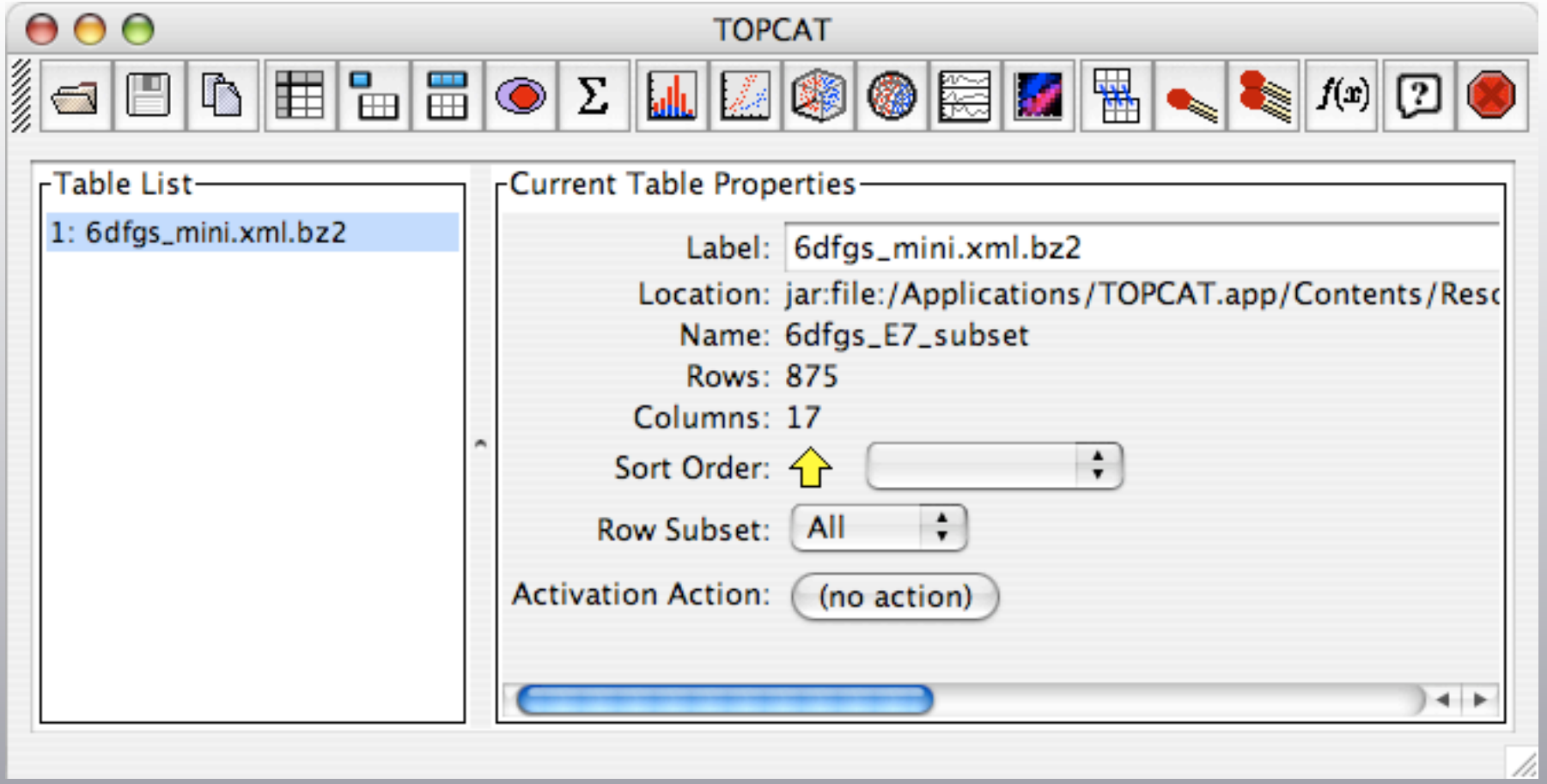

TOPCAT
Available Functions
Maths
E
PI
RANDOM
acos(x)
acosh(x)
asin(x)
asinh(x)
atan(x)
atan2(y, x)
atanh(x)
cos(theta)
cosh(x)
exp(x)
ln(x)
log10(x)
pow(a, b)
sin(theta)
sinh(x)
sqrt(x)
tan(theta)
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.


TOPCAT
Available Functions
Maths
Strings
f( ) concat(s1, s2, s3)
f( ) concat(s1, s2, s3, s4)
f( ) concat(s1, s2)
f( ) contains(whole, sub)
f( ) endsWith(whole, end)
f( ) equals(s1, s2)
f( ) equalsIgnoreCase(s1, s2)
f( ) length(str)
f( ) matchGroup(str, regex)
f( ) matches(str, regex)
f( ) padWithZeros(value, ndigit)
f( ) replaceAll(str, regex, replacement)
f( ) replaceFirst(str, regex, replacement)
f( ) startsWith(whole, start)
f( ) substring(str, startIndex, endIndex)
f( ) substring(str, startIndex)
f( ) toLowerCase(str)
f( ) toUpperCase(str)
f( ) trim(str)
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.


TOPCAT
Available Functions
Distances
Fluxes
Formats
Maths
Strings
Times
f( ) besselianToMjd(besselianEpoch)
f( ) dateToMjd(year, month, day)
f( ) dateToMjd(year, month, day, hour, min, sec)
f( ) decYearToMjd(decYear)
f( ) formatMjd(mjd, format)
f( ) isoToMjd(isoDate)
f( ) julianToMjd(julianEpoch)
f( ) mjdToBesselian(mjd)
f( ) mjdToDate(mjd)
f( ) mjdToDecYear(mjd)
f( ) mjdToIso(mjd)
f( ) mjdToJulian(mjd)
f( ) mjdToTime(mjd)
f( ) mjdToUnixMillis(mjd)
f( ) unixMillisToMjd(unixMillis)
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.


TOPCAT
Available Functions
Fluxes
Formats
Maths
Strings
Times
f( ) besselianToMjd(besselianEpoch)
f( ) dateToMjd(year, month, day)
f( ) dateToMjd(year, month, day, hour, min, sec)
f( ) decYearToMjd(decYear)
f( ) formatMjd(mjd, format)
f( ) isoToMjd(isoDate)
f( ) julianToMjd(julianEpoch)
f( ) mjdToBesselian(mjd)
f( ) mjdToDate(mjd)
f( ) mjdToDecYear(mjd)
f( ) mjdToIso(mjd)
f( ) mjdToJulian(mjd)
f( ) mjdToTime(mjd)
f( ) mjdToUnixMillis(mjd)
f( ) unixMillisToMjd(unixMillis)
Function julianToMjd(julianEpoch)
Description:
Converts a Julian Epoch to Modified Julian Date. For approximate purposes, the argument of this routine consists of an integral part which gives the year AD and a fractional part which represents the distance through that year, so that for instance 2000.5 is approximately 1 July 2000.
Parameters:
julianEpoch (floating point)
Julian epoch
Return Value (floating point):
modified Julian date
Example:
julianToMjd(2000.0) = 51544.5
Signature:
double julianToMjd(double)


TOPCAT
Available Functions
Arithmetic
Conversions
Coords
Distances
Fluxes
Formats
Maths
Strings
Times
Activation Functions
Output
System
Image
Spectrum
BasicImageDisplay
Sog
Browsers
Mgc
Sdss
SuperCosmos
TwoQZ
Function Browser
Open tree nodes on the left by double-clicking to Select categories of functions. Clicking on the name of a function or constant will show details of its usage and semantics.


TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

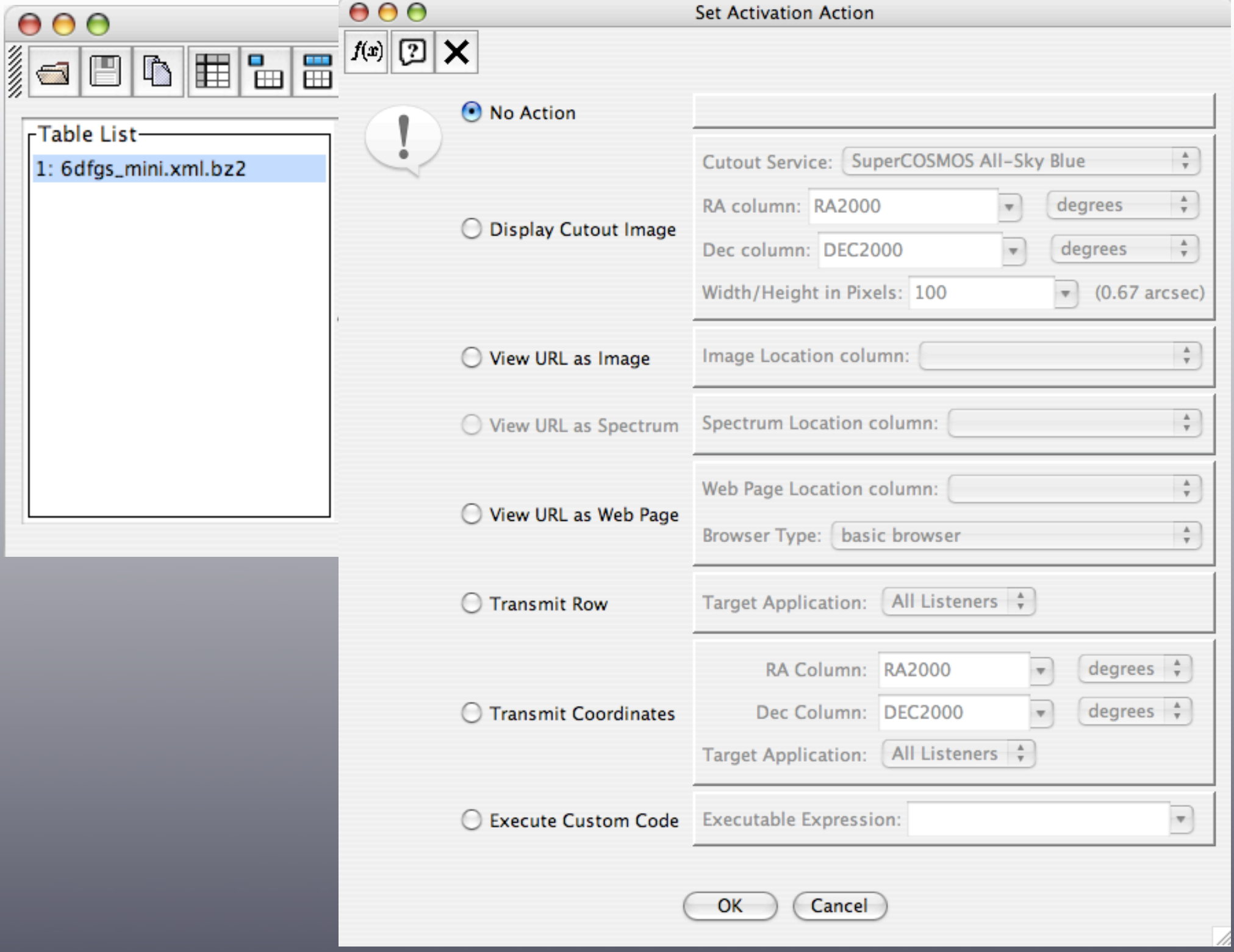


Table List
1: 6dfgs_mini.xml.bz2
Set Activation Action
No Action
Display Cutout Image
Cutout Service: SuperCOSMOS All-Sky Blue
RA column: RA2000
degrees
Dec column: DEC2000
degrees
Width/Height in Pixels: 100
(0.67 arcsec)
View URL as Image
Image Location column:
View URL as Spectrum
Spectrum Location column:
View URL as Web Page
Web Page Location column:
Browser Type: basic browser
Transmit Row
Target Application: All Listeners
Transmit Coordinates
RA Column: RA2000
degrees
Dec Column: DEC2000
degrees
Target Application: All Listeners
Execute Custom Code
Executable Expression:
OK
Cancel

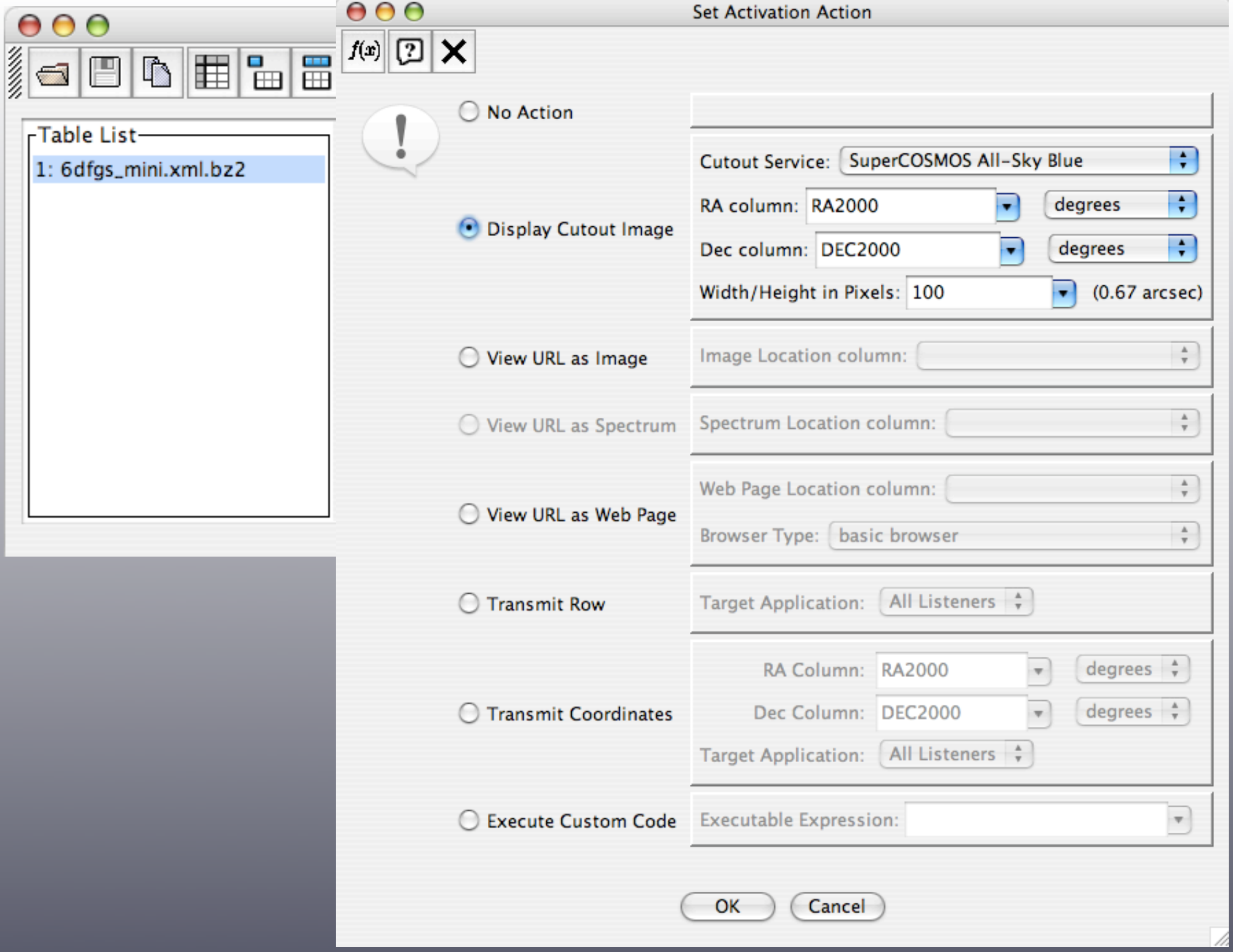


Table List
1: 6dfgs_mini.xml.bz2
Set Activation Action
No Action
Display Cutout Image
Cutout Service: SuperCOSMOS All-Sky Blue
RA column: RA2000
degrees
Dec column: DEC2000
degrees
Width/Height in Pixels: 100
(0.67 arcsec)
View URL as Image
Image Location column:
View URL as Spectrum
Spectrum Location column:
View URL as Web Page
Web Page Location column:
Browser Type: basic browser
Transmit Row
Target Application: All Listeners
Transmit Coordinates
RA Column: RA2000
degrees
Dec Column: DEC2000
degrees
Target Application: All Listeners
Execute Custom Code
Executable Expression:
OK
Cancel

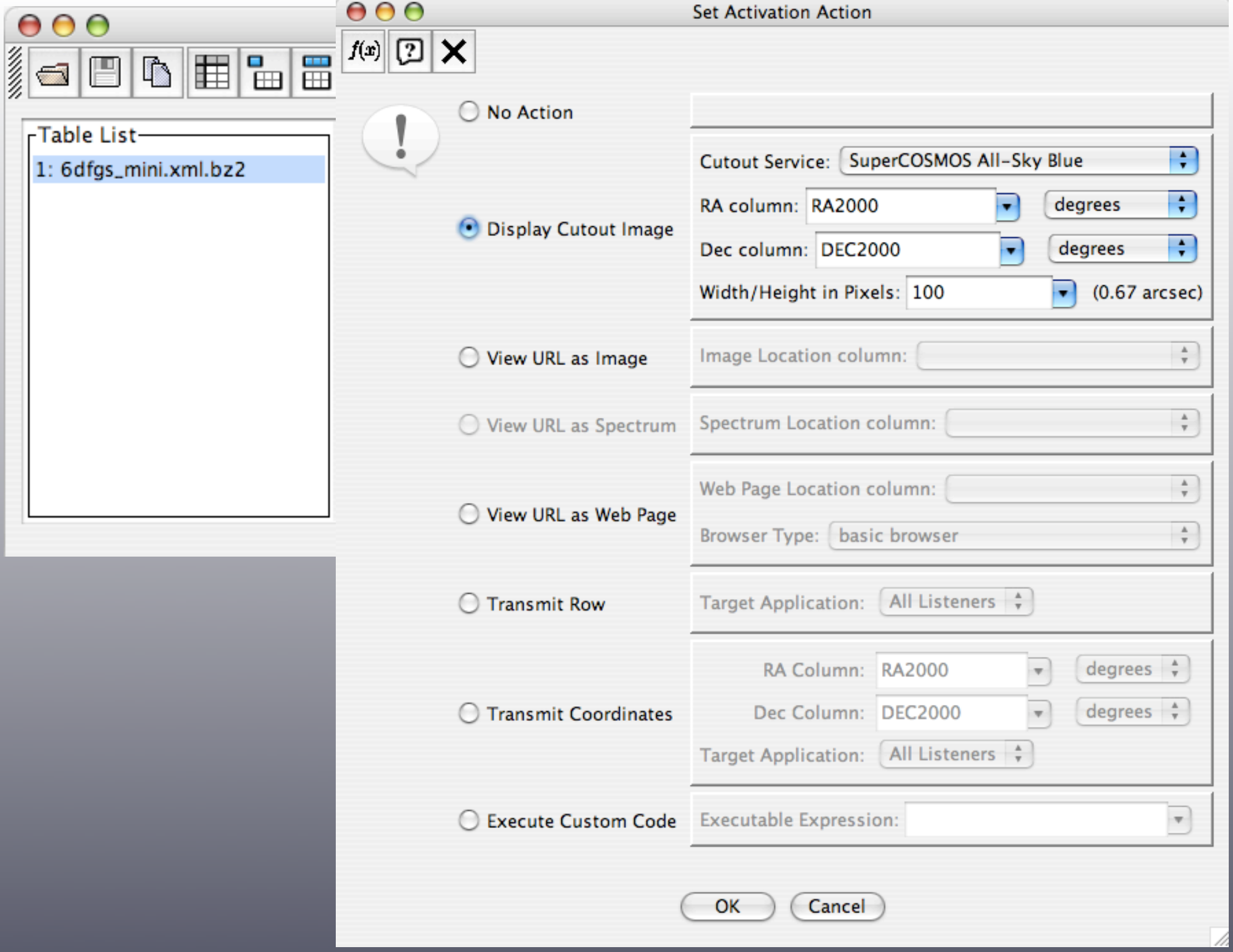
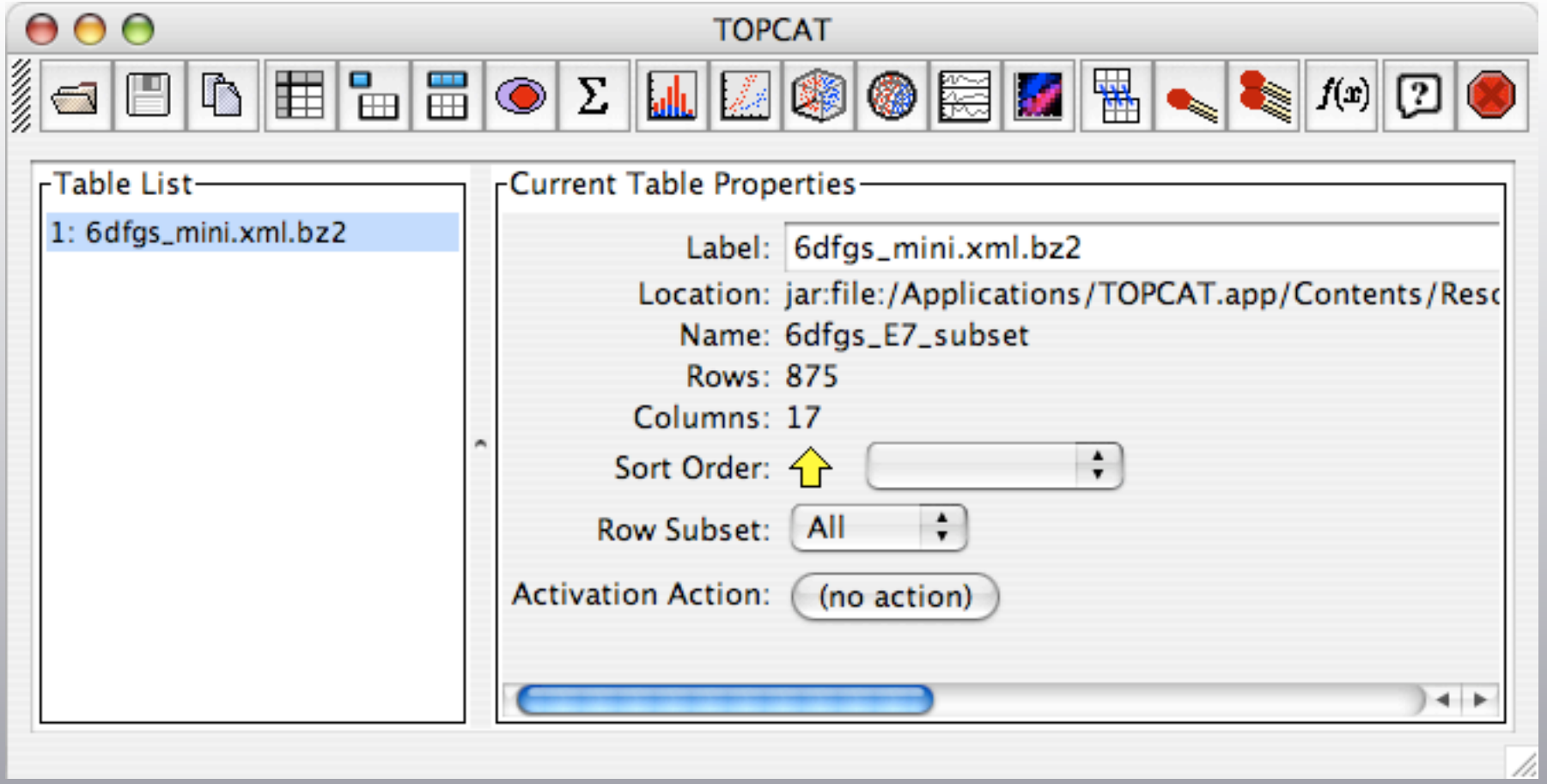
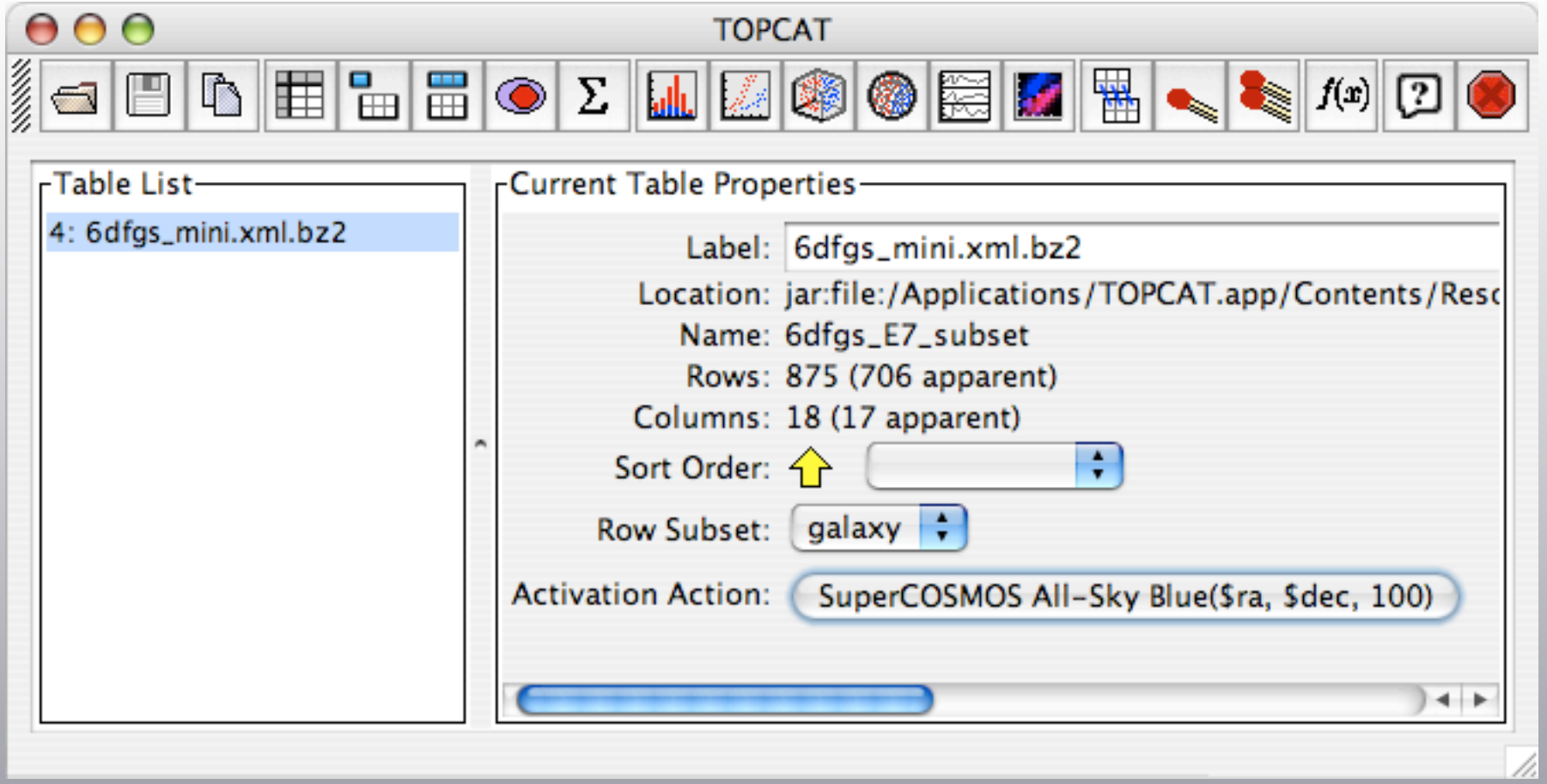
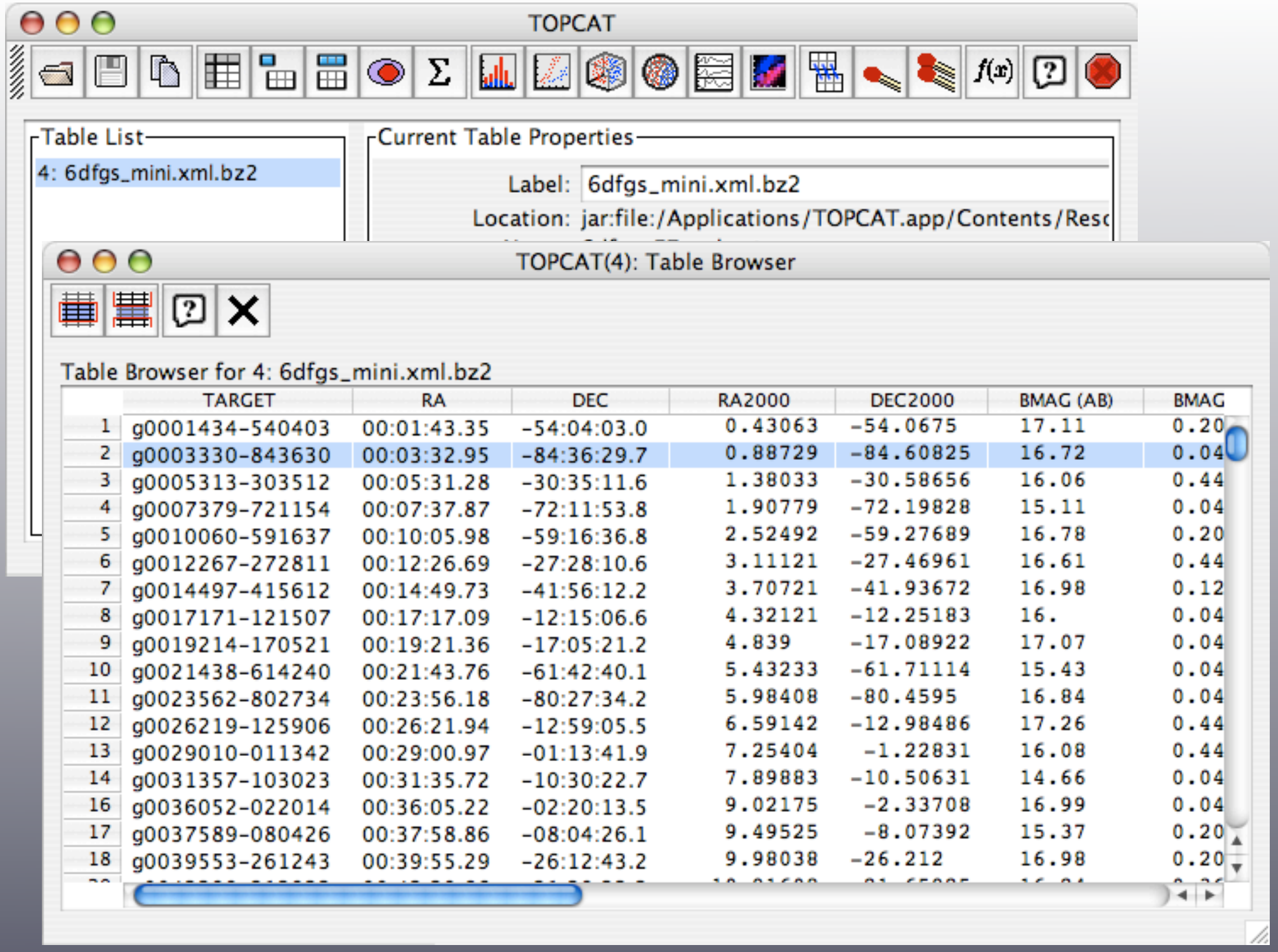


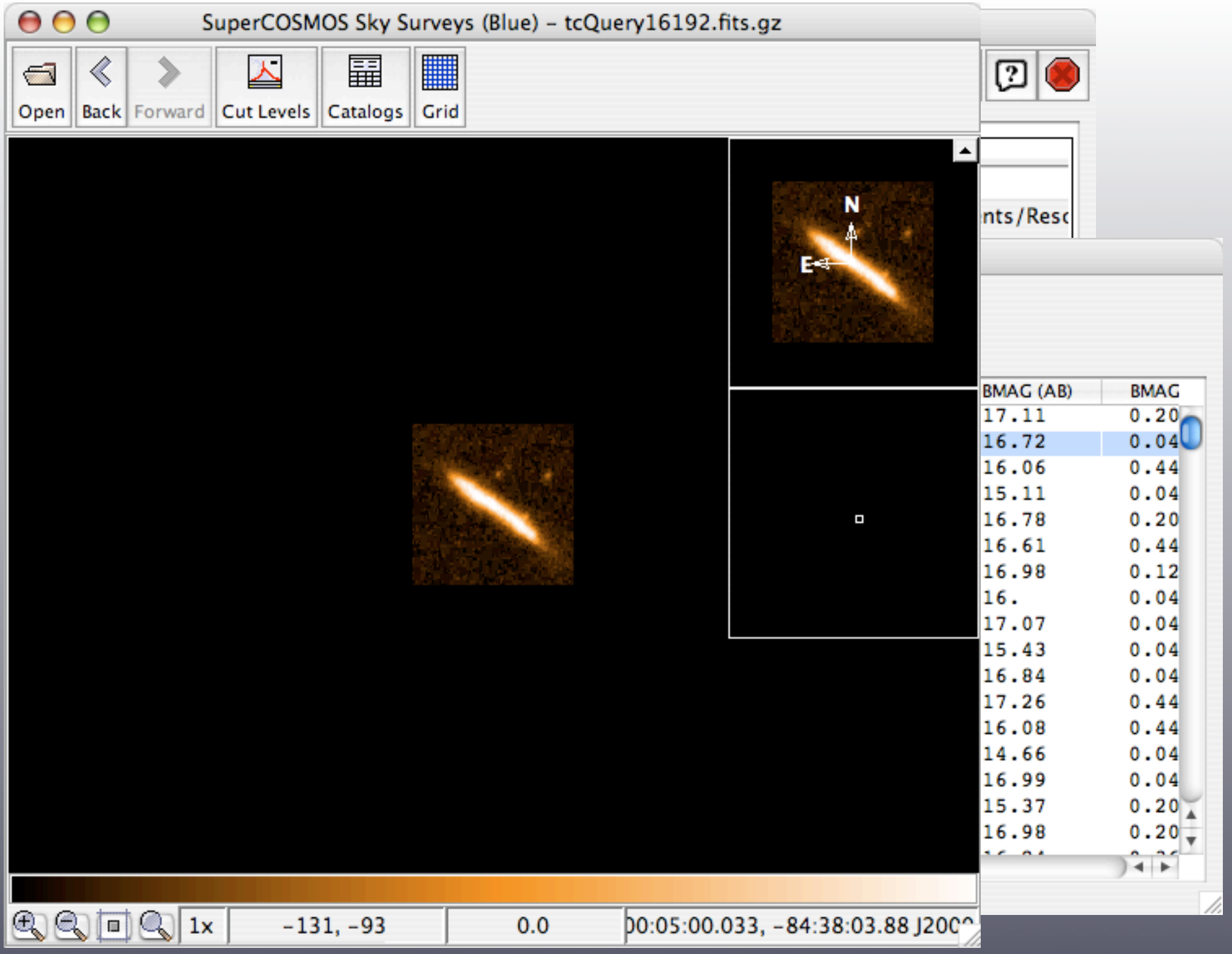
Table List
1: 6dfgs_mini.xml.bz2
Set Activation Action
No Action
Display Cutout Image
Cutout Service: SuperCOSMOS All-Sky Blue
RA column: RA2000
degrees
Dec column: DEC2000
degrees
Width/Height in Pixels: 100
(0.67 arcsec)
View URL as Image
Image Location column:
View URL as Spectrum
Spectrum Location column:
View URL as Web Page
Web Page Location column:
Browser Type: basic browser
Transmit Row
Target Application: All Listeners
Transmit Coordinates
RA Column: RA2000
degrees
Dec Column: DEC2000
degrees
Target Application: All Listeners
Execute Custom Code
Executable Expression:
OK
Cancel

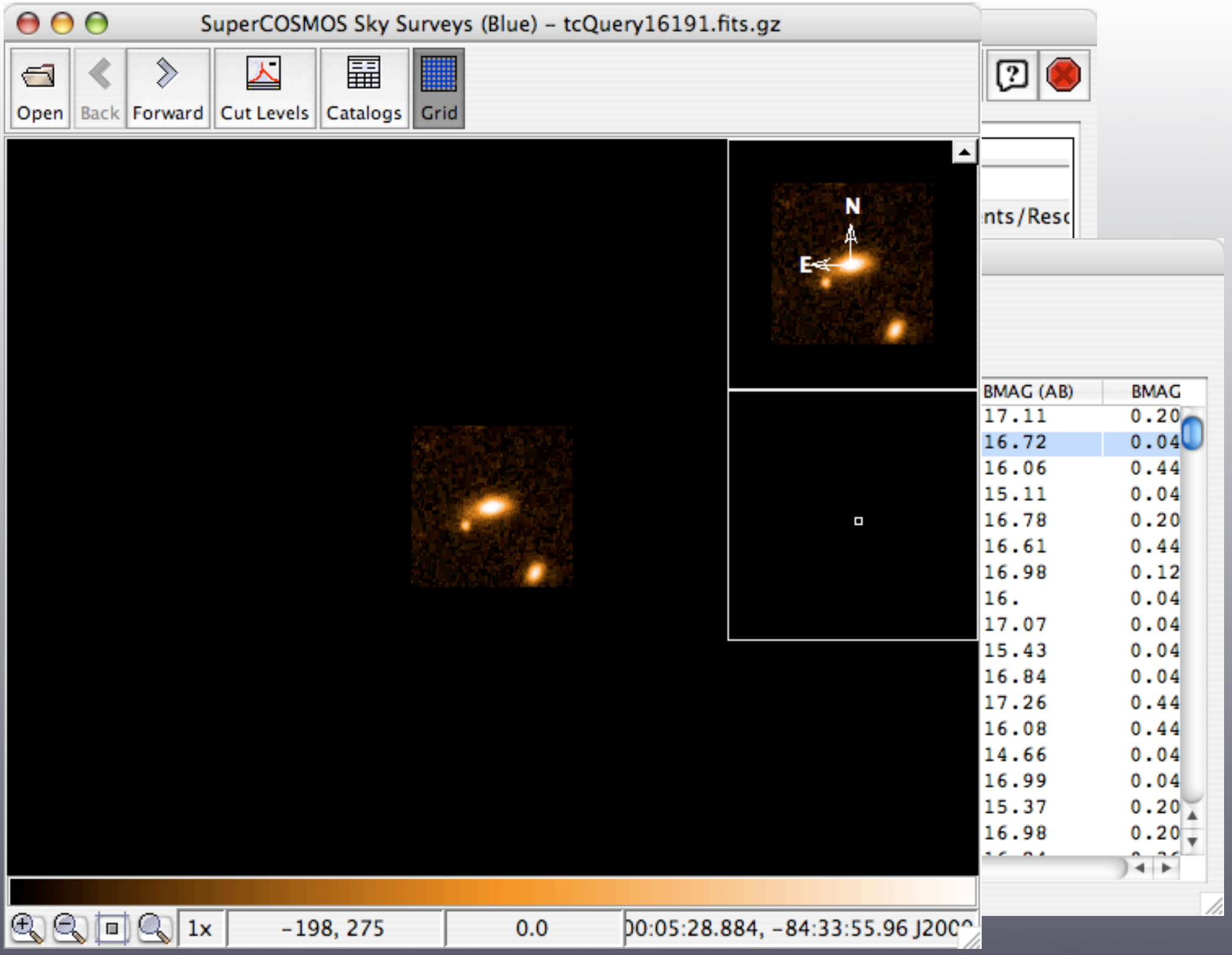

TOPCAT
Table List
1: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875
Columns: 17
Sort Order:
Row Subset: All
Activation Action: (no action)

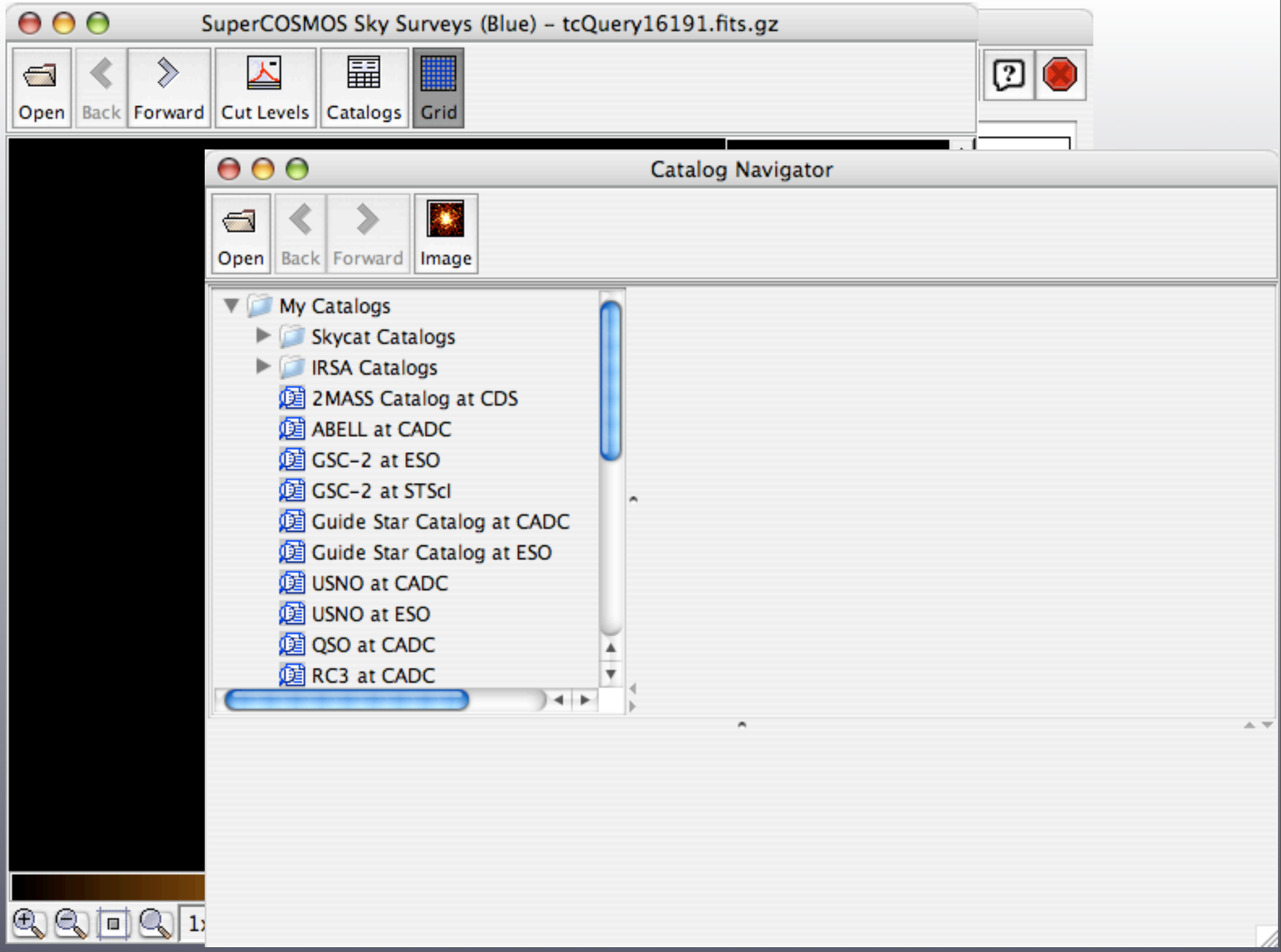

TOPCAT
Table List
4: 6dfgs_mini.xml.bz2
Current Table Properties
Label: 6dfgs_mini.xml.bz2
Location: jar:file:/Applications/TOPCAT.app/Contents/Resc
Name: 6dfgs_E7_subset
Rows: 875 (706 apparent)
Columns: 18 (17 apparent)
Sort Order:
Row Subset: galaxy
Activation Action: SuperCOSMOS All-Sky Blue($ra, $dec, 100)



	TARGET	RA	DEC	RA2000	DEC2000	BMAG (AB)	BMAG
1	g0001434-540403	00:01:43.35	-54:04:03.0	0.43063	-54.0675	17.11	0.20
2	g0003330-843630	00:03:32.95	-84:36:29.7	0.88729	-84.60825	16.72	0.04
3	g0005313-303512	00:05:31.28	-30:35:11.6	1.38033	-30.58656	16.06	0.44
4	g0007379-721154	00:07:37.87	-72:11:53.8	1.90779	-72.19828	15.11	0.04
5	g0010060-591637	00:10:05.98	-59:16:36.8	2.52492	-59.27689	16.78	0.20
6	g0012267-272811	00:12:26.69	-27:28:10.6	3.11121	-27.46961	16.61	0.44
7	g0014497-415612	00:14:49.73	-41:56:12.2	3.70721	-41.93672	16.98	0.12
8	g0017171-121507	00:17:17.09	-12:15:06.6	4.32121	-12.25183	16.	0.04
9	g0019214-170521	00:19:21.36	-17:05:21.2	4.839	-17.08922	17.07	0.04
10	g0021438-614240	00:21:43.76	-61:42:40.1	5.43233	-61.71114	15.43	0.04
11	g0023562-802734	00:23:56.18	-80:27:34.2	5.98408	-80.4595	16.84	0.04
12	g0026219-125906	00:26:21.94	-12:59:05.5	6.59142	-12.98486	17.26	0.44
13	g0029010-011342	00:29:00.97	-01:13:41.9	7.25404	-1.22831	16.08	0.44
14	g0031357-103023	00:31:35.72	-10:30:22.7	7.89883	-10.50631	14.66	0.04
16	g0036052-022014	00:36:05.22	-02:20:13.5	9.02175	-2.33708	16.99	0.04
17	g0037589-080426	00:37:58.86	-08:04:26.1	9.49525	-8.07392	15.37	0.20
18	g0039553-261243	00:39:55.29	-26:12:43.2	9.98038	-26.212	16.98	0.20


SuperCOSMOS Sky Surveys (Blue) – tcQuery16192.fits.gz
Open
Back
Forward
Cut Levels
Catalogs
Grid
N
E
BMAG (AB)
BMAG
17.11 0.20
16.72 0.04
16.06 0.44
15.11 0.04
16.78 0.20
16.61 0.44
16.98 0.12
16. 0.04
17.07 0.04
15.43 0.04
16.84 0.04
17.26 0.44
16.08 0.44
14.66 0.04
16.99 0.04
15.37 0.20
16.98 0.20
1x
-131, -93
0.0


SuperCOSMOS Sky Surveys (Blue) – tcQuery16191.fits.gz
Open
Back
Forward
Cut Levels
Catalogs
Grid
N
E
BMAG (AB)
BMAG
17.11 0.20
16.72 0.04
16.06 0.44
15.11 0.04
16.78 0.20
16.61 0.44
16.98 0.12
16. 0.04
17.07 0.04
15.43 0.04
16.84 0.04
17.26 0.44
16.08 0.44
14.66 0.04
16.99 0.04
15.37 0.20
16.98 0.20
1x
-198, 275
0.0


SuperCOSMOS Sky Surveys (Blue) – tcQuery16191.fits.gz
Open
Back
Forward
Cut Levels
Catalogs
Grid
Catalog Navigator
Open
Back
Forward
Image
My Catalogs
Skycat Catalogs
IRSA Catalogs
2MASS Catalog at CDS
ABELL at CADC
GSC-2 at ESO
GSC-2 at STScI
Guide Star Catalog at CADC
Guide Star Catalog at ESO
USNO at CADC
USNO at ESO
QSO at CADC
RC3 at CADC

STILTS

http://www.star.bris.ac.uk/~mbt/stilts/

STILTS

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STILTS: Starlink Tables Infrastructure Library Tool Set

STILTS

http://www.star.bris.ac.uk/~mbt/stilts/

STILTS: Starlink Tables Infrastructure Library Tool Set

Commands:

- **tcopy** - Table format converter
- **tpipe** - Generic table pipeline processing utility
- **tmatch2** - Two-table crossmatcher
- **tjoin** - Trivial side-by-side multiple-table joiner
- **tcube** - N-dimensional histogram calculator
- **tcat**, **tcatn** - Multiple-table concatenaters

two VOTable-specific commands:

- **votcopy** - VOTable encoding translator
- **votlint** - VOTable validity checker

and one miscellaneous utility:

- **calc** - Quick expression evaluator

At version 1.2 (July 2006) a couple of Virtual Observatory service access commands have also been introduced on an experimental basis:

- **regquery** - Registry Query
- **multicone** - Multiple Cone Search

STILTS

http://www.star.bris.ac.uk/~mbt/stilts/

STILTS: Starlink Tables Infrastructure Library Tool Set

Commands:

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Facilities:

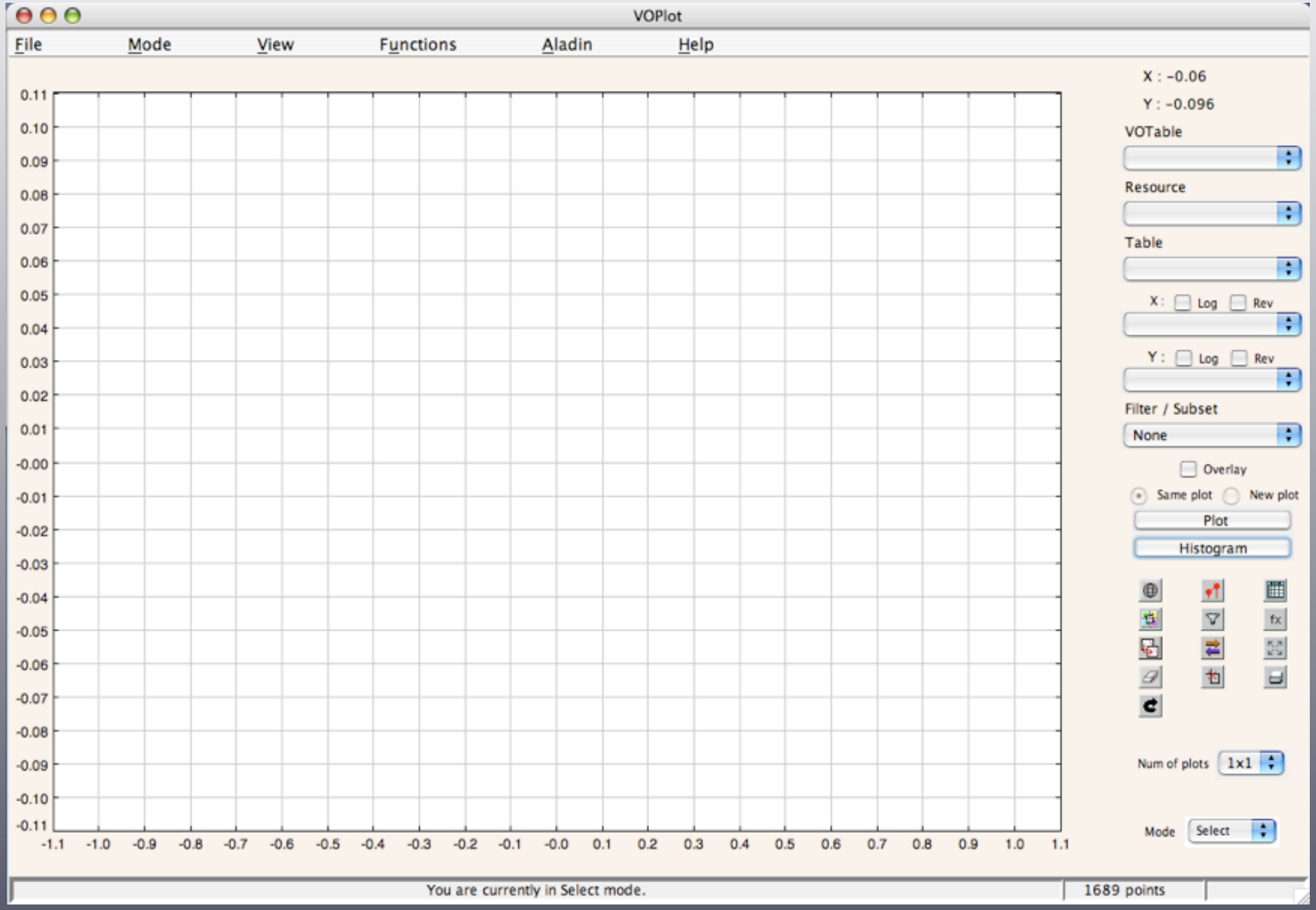
- format conversion
- data and metadata manipulation and display
- sorting
- row selections
- column calculation and rearrangement
- crossmatching
- statistical calculations
- histogram calculation
- data validation
- VO service access (experimental)

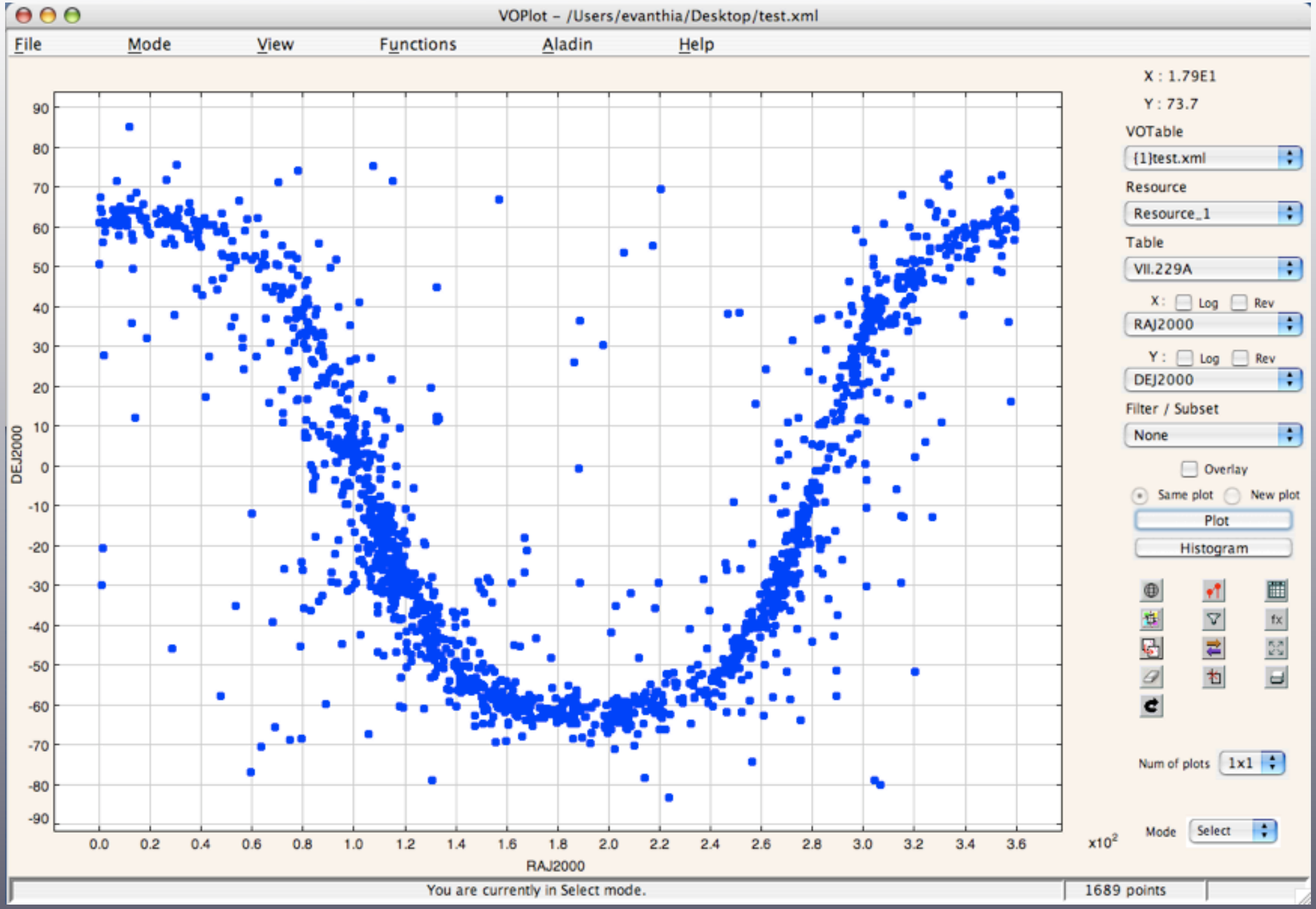
VOPlot

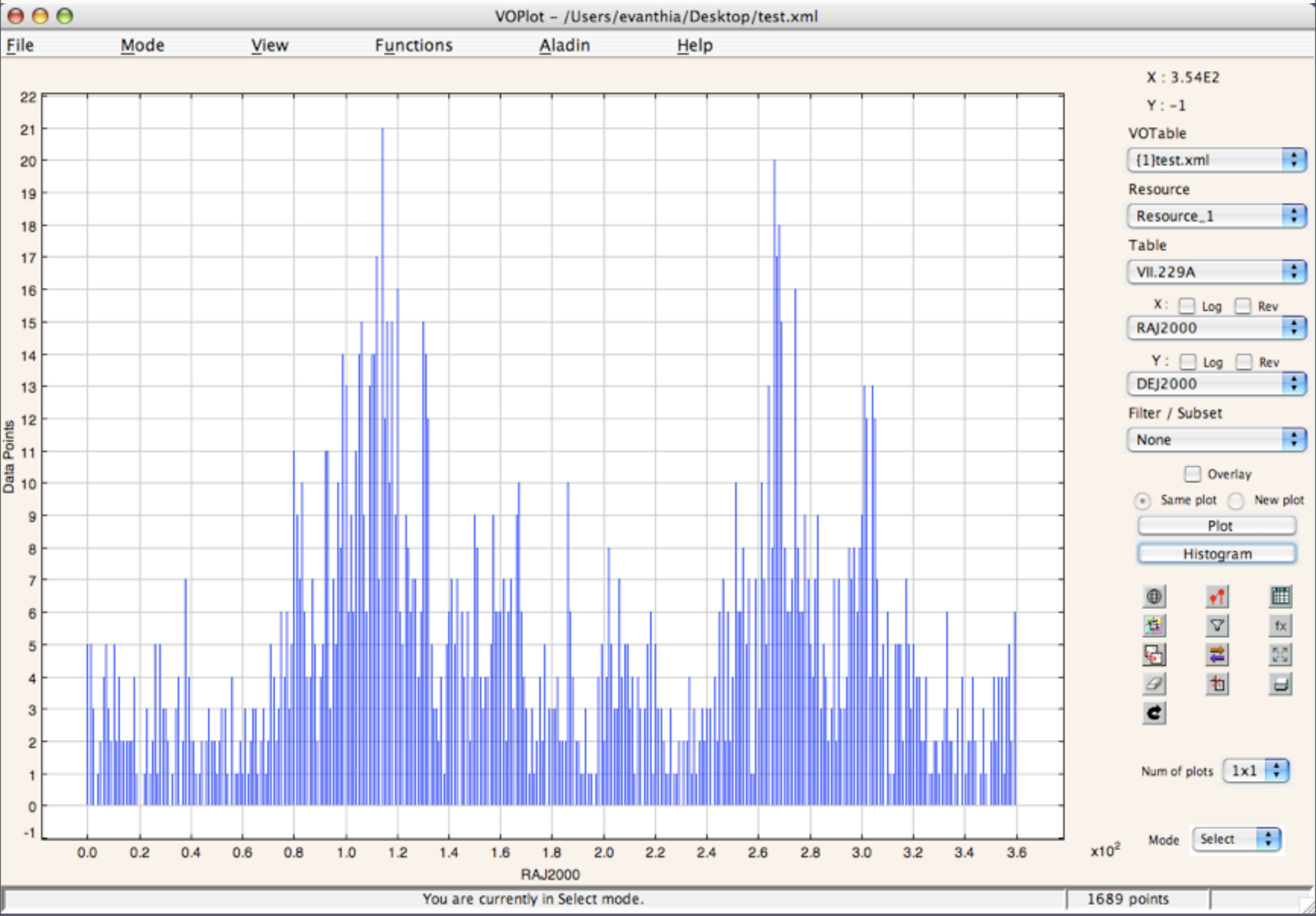
http://vo.iucaa.ernet.in/~voi/voplot.htm

VOPlot

http://vo.iucaa.ernet.in/~voi/voplot.htm



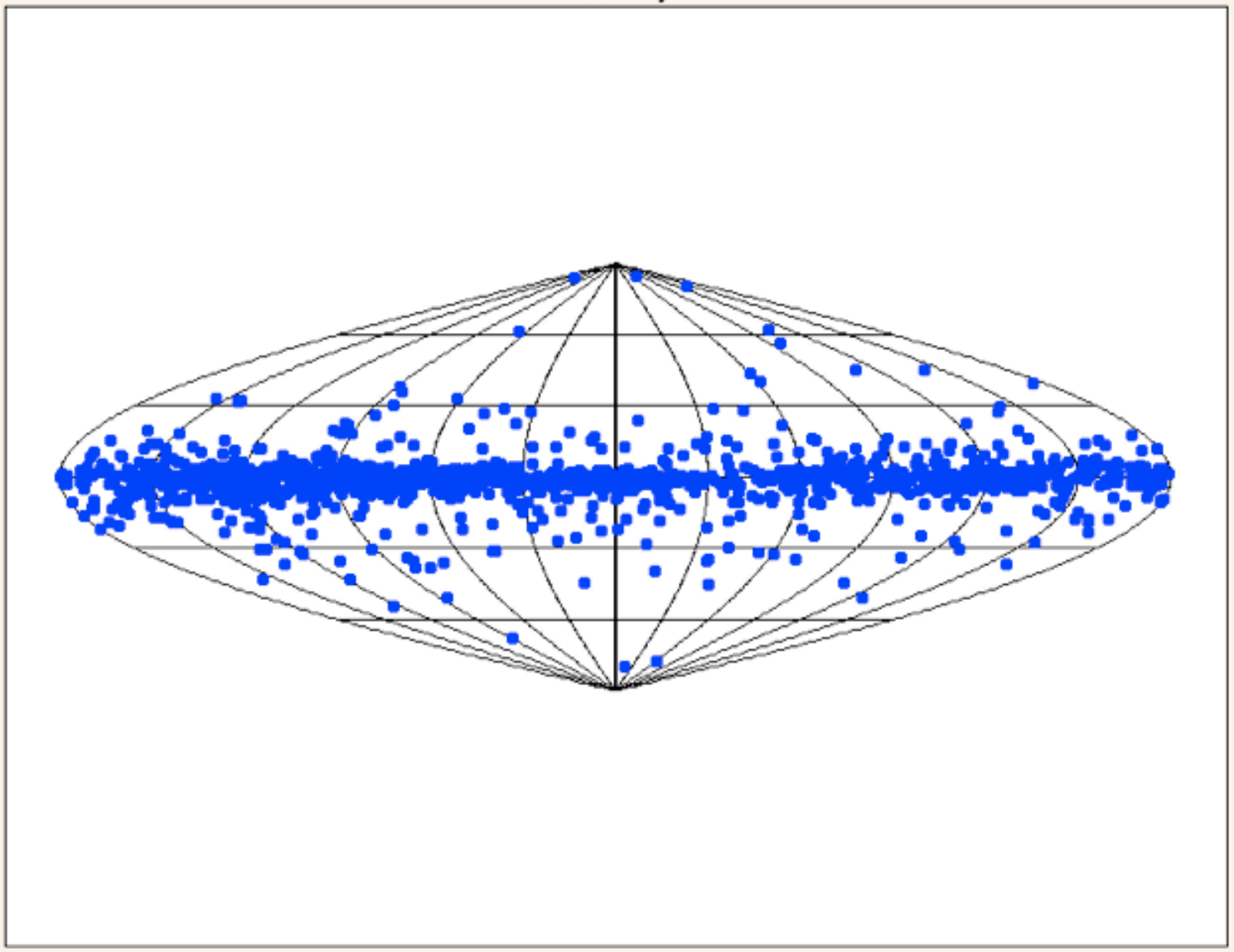

VOPlot – /Users/evanthia/Desktop/test.xml
File
Mode
View
Functions
Aladin
Help
X : 1.79E1
Y : 73.7
VOTable
{1}test.xml
Resource
Resource_1
Table
VII.229A
X : Log Rev
RAJ2000
Y : Log Rev
DEJ2000
Filter / Subset
None
Overlay
Same plot
New plot
Plot
Histogram
Num of plots
1x1
Mode
Select
x10^2
DEJ2000
RAJ2000
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
You are currently in Select mode.
1689 points


VOPlot - /Users/evanthia/Desktop/test.xml
File
Mode
View
Functions
Aladin
Help
X : 3.54E2
Y : -1
VOTable
{1}test.xml
Resource
Resource_1
Table
VII.229A
X : Log Rev
RAJ2000
Y : Log Rev
DEJ2000
Filter / Subset
None
Overlay
Same plot
New plot
Plot
Histogram
Num of plots
1x1
Mode
Select
x10^2
Data Points
RAJ2000
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6
-1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
You are currently in Select mode.
1689 points

Spherical Projection Plot

File

Sinusoidal Projection



{1.1.1}VII.229A

Long : NAN
Lat : NAN

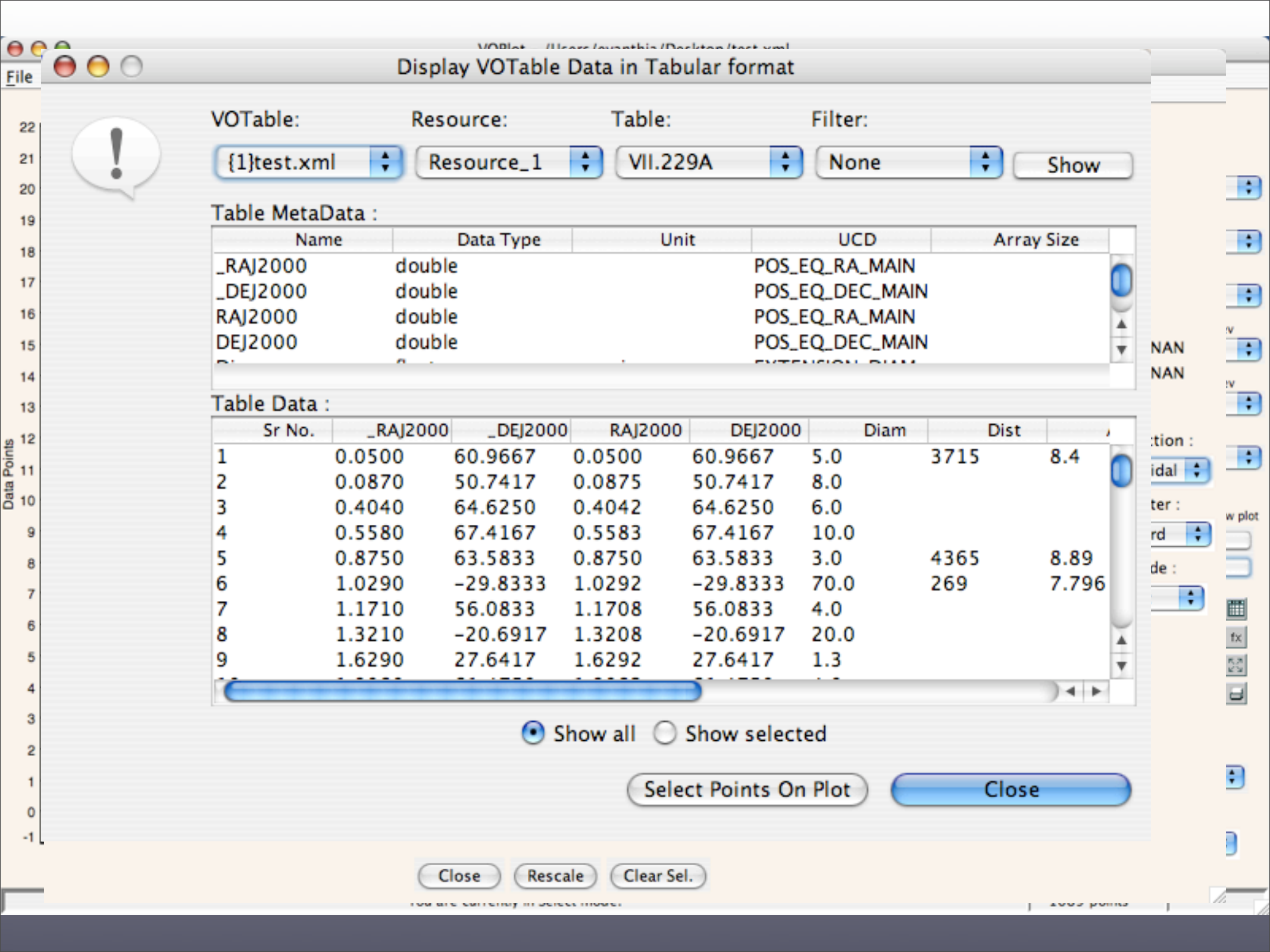
Projection :
Sinusoidal

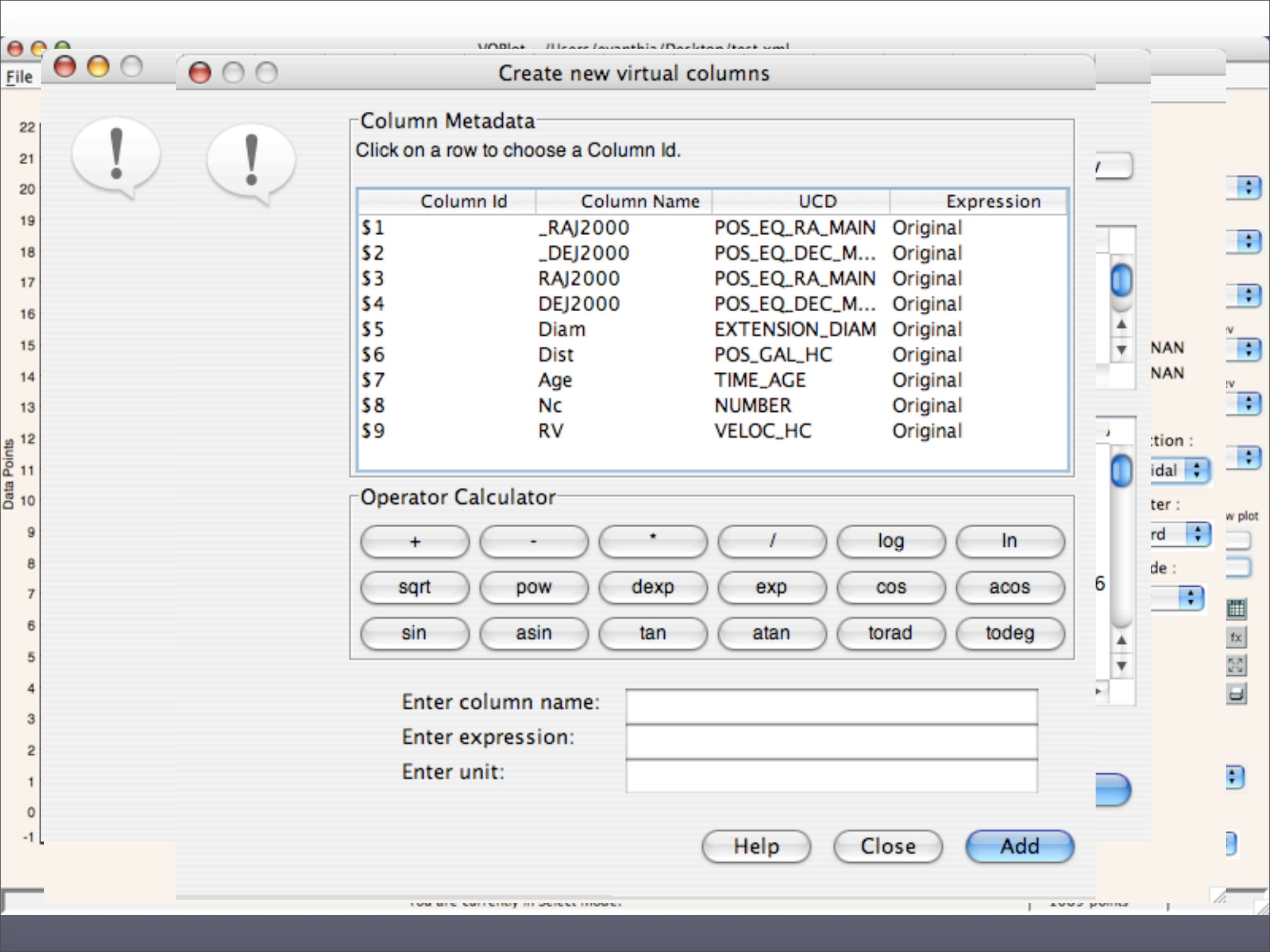
Center :
Standard

Mode :
Select

Data Points

Close | Rescale | Clear Sel.


Display VOTable Data in Tabular format
VOTable:
Resource:
Table:
Filter:
{1}test.xml
Resource_1
VII.229A
None
Show
Table MetaData :
Name
Data Type
Unit
UCD
Array Size
_RAJ2000
double
POS_EQ_RA_MAIN
_DEJ2000
double
POS_EQ_DEC_MAIN
RAJ2000
double
POS_EQ_RA_MAIN
DEJ2000
double
POS_EQ_DEC_MAIN
Table Data :
Sr No.
_RAJ2000
_DEJ2000
RAJ2000
DEJ2000
Diam
Dist
1 0.0500 60.9667 0.0500 60.9667 5.0 3715 8.4
2 0.0870 50.7417 0.0875 50.7417 8.0
3 0.4040 64.6250 0.4042 64.6250 6.0
4 0.5580 67.4167 0.5583 67.4167 10.0
5 0.8750 63.5833 0.8750 63.5833 3.0 4365 8.89
6 1.0290 -29.8333 1.0292 -29.8333 70.0 269 7.796
7 1.1710 56.0833 1.1708 56.0833 4.0
8 1.3210 -20.6917 1.3208 -20.6917 20.0
9 1.6290 27.6417 1.6292 27.6417 1.3
Show all
Show selected
Select Points On Plot
Close
Close
Rescale
Clear Sel.


Create new virtual columns
Column Metadata
Click on a row to choose a Column Id.
Column Id
Column Name
UCD
Expression
$1 _RAJ2000 POS_EQ_RA_MAIN Original
$2 _DEJ2000 POS_EQ_DEC_M... Original
$3 RAJ2000 POS_EQ_RA_MAIN Original
$4 DEJ2000 POS_EQ_DEC_M... Original
$5 Diam EXTENSION_DIAM Original
$6 Dist POS_GAL_HC Original
$7 Age TIME_AGE Original
$8 Nc NUMBER Original
$9 RV VELOC_HC Original
Operator Calculator
+
-
*
/
log
ln
sqrt
pow
dexp
exp
cos
acos
sin
asin
tan
atan
torad
todeg
Enter column name:
Enter expression:
Enter unit:
Help
Close
Add
File
Data Points

Yafit

http://www.star.bris.ac.uk/~mbt/yafit/

Yafit

http://www.star.bris.ac.uk/~mbt/yafit/

Yafit: Yet Another FItting Tool

Yafit

http://www.star.bris.ac.uk/~mbt/yafit/

Yafit: Yet Another FItting Tool

```
Usage: fit [-help] [-debug]
           model=<model-file>
           [modelfmt=ymodel|galaxev|starburst99|svotar|sideways-vot]
           obs=<obs-file>
           [smoother=square|point]
           [scale=true|false]
           [fitcalc=chi2|poisson|unscaled]
           [gui=true|false]
           [summary=<out-file>]
           [bestfits=<out-table>]
           [bestfitsfmt=<out-format>]
```

Yafit

http://www.star.bris.ac.uk/~mbt/yafit/

Yafit: Yet Another FItting Tool

```
Usage: fit [-help] [-debug]
           model=<model-file>
           [modelfmt=ymodel|galaxev|starburst99|svotar|sideways-vot]
           obs=<obs-file>
           [smoother=square|point]
           [scale=true|false]
           [fitcalc=chi2|poisson|unscaled]
           [gui=true|false]
           [summary=<out-file>]
           [bestfits=<out-table>]
           [bestfitsfmt=<out-format>]


Usage: plotmodel [-help] [-debug]
                 in=<model-file>
                 [ifmt=ymodel|galaxev|starburst99|svotar|sideways-vot]
```

Yafit

http://www.star.bris.ac.uk/~mbt/yafit/

Yafit: Yet Another FItting Tool

```
Usage: fit [-help] [-debug]
           model=<model-file>
           [modelfmt=ymodel|galaxev|starburst99|svotar|sideways-vot]
           obs=<obs-file>
           [smoother=square|point]
           [scale=true|false]
           [fitcalc=chi2|poisson|unscaled]
           [gui=true|false]
           [summary=<out-file>]
           [bestfits=<out-table>]
           [bestfitsfmt=<out-format>]


Usage: plotmodel [-help] [-debug]
                 in=<model-file>
                 [ifmt=ymodel|galaxev|starburst99|svotar|sideways-vot]


Usage: plotobs [-help] [-debug]
               in=<obs-file>
```

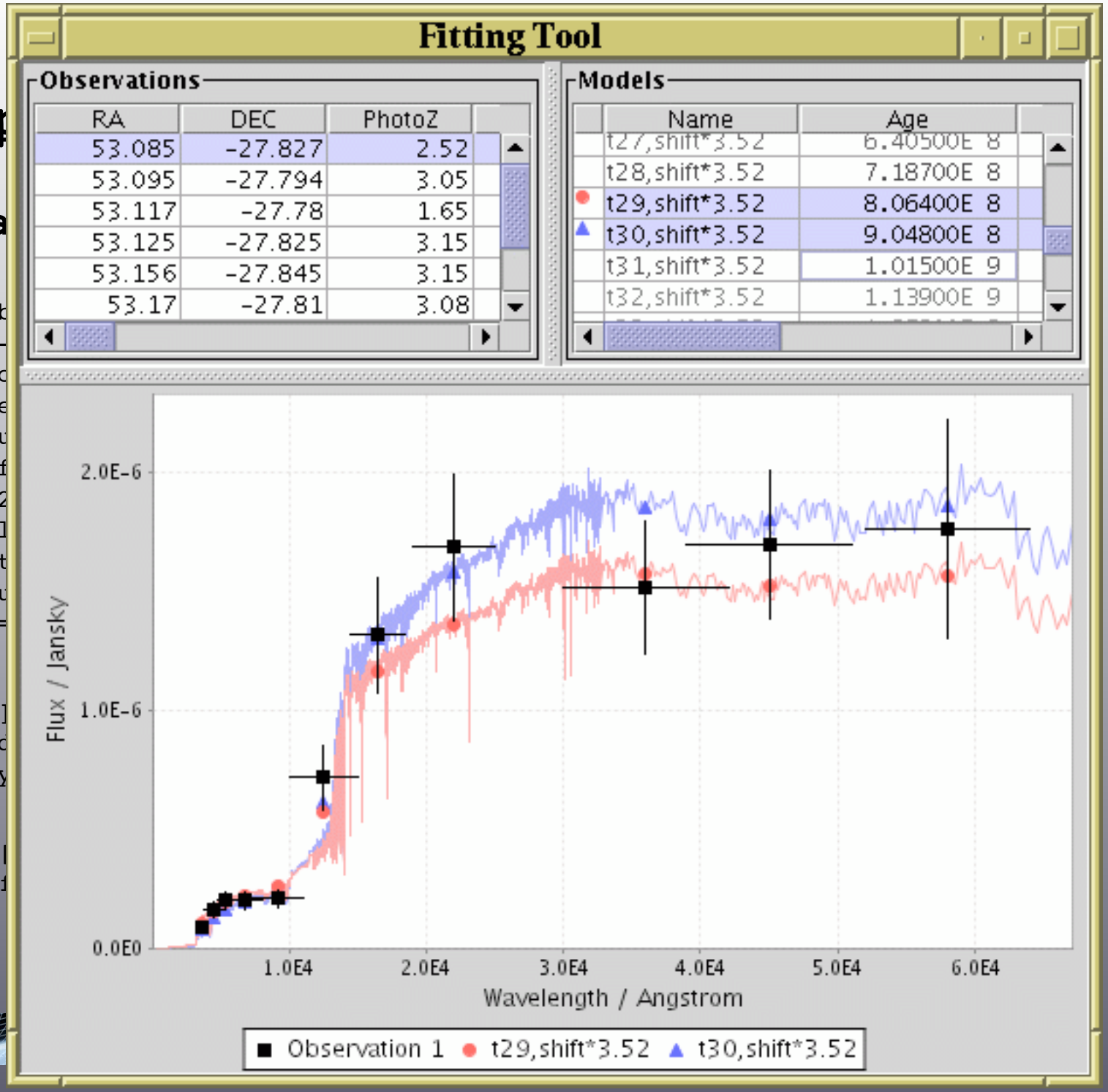
http

Ya

```
Usage: fit [-help] [-deb
           model=<model-
           [modelfmt=ymo
           obs=<obs-file
           [smoother=squ
           [scale=true|f
           [fitcalc=chi2
           [gui=true|fal
           [summary=<out
           [bestfits=<ou
           [bestfitsfmt=

Usage: plotmodel [-help]
                 in=<mod
                 [ifmt=y

Usage: plotobs [-help] [
               in=<obs-f
```



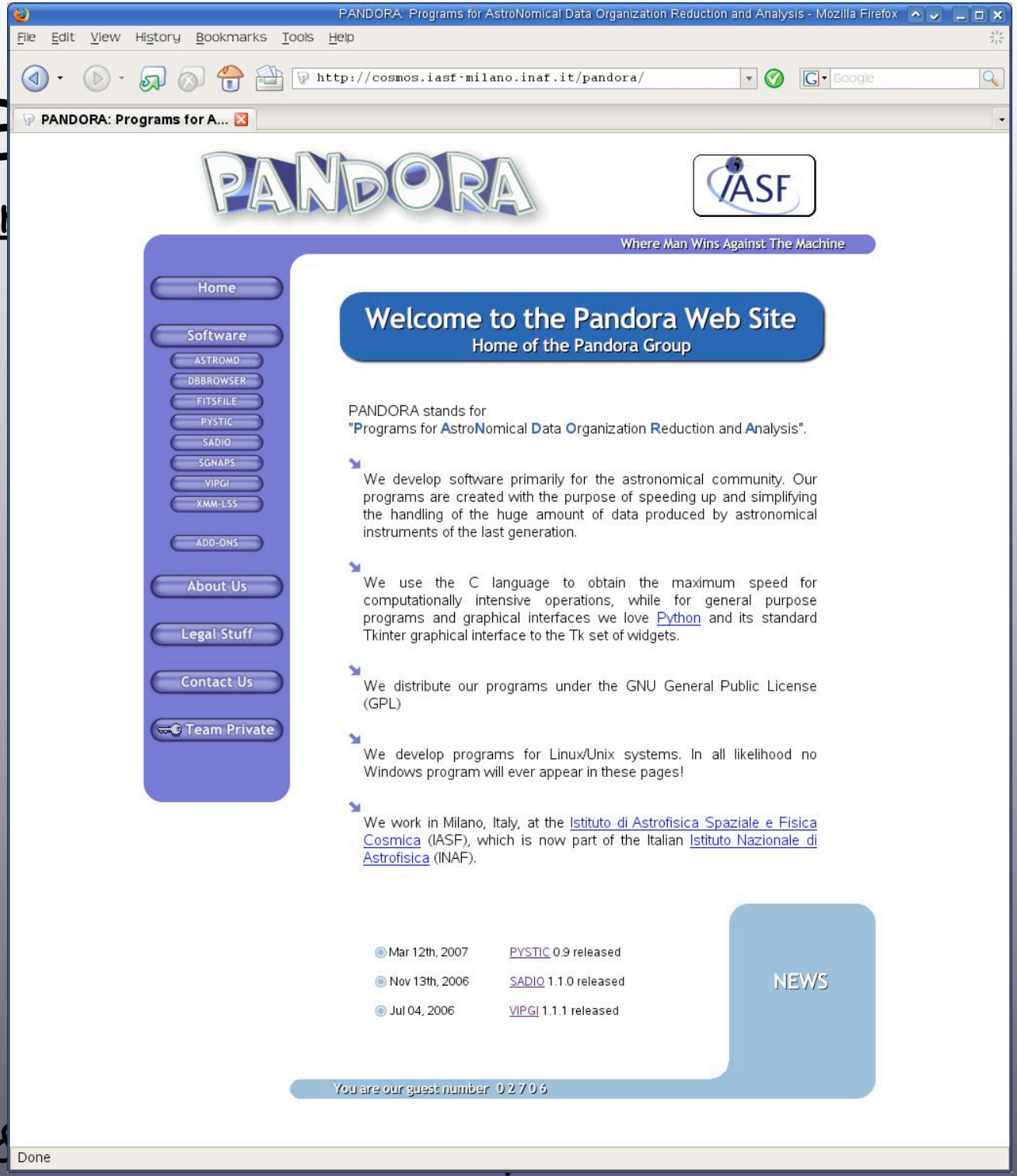
EZ and GOSSIP

http://cosmos.iasf-milano.inaf.it/pandora/

Paolo Franzetti & the PANDORA Group - IASF Milano

E

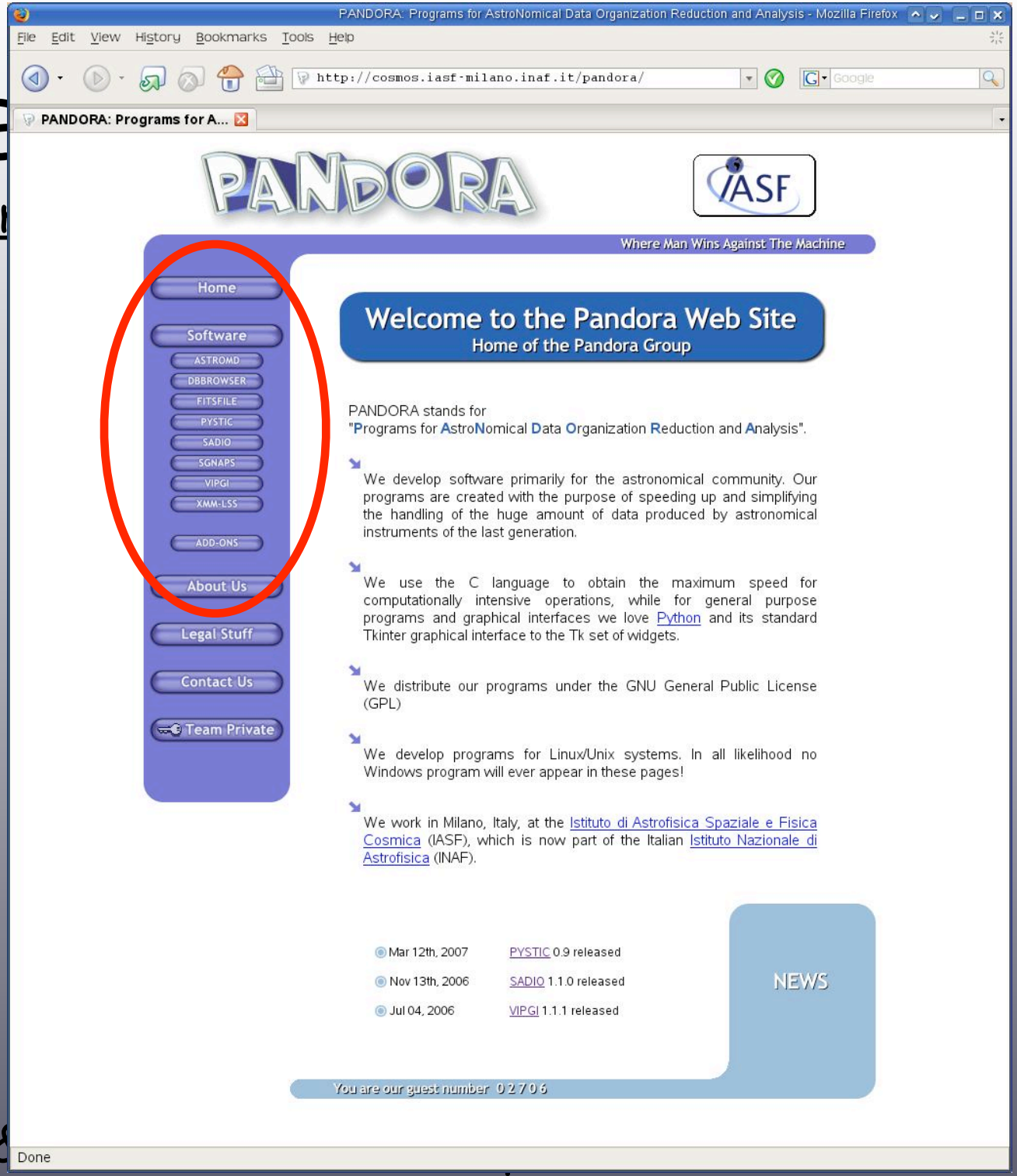
http://cosm



Paolo Franzetti &

E

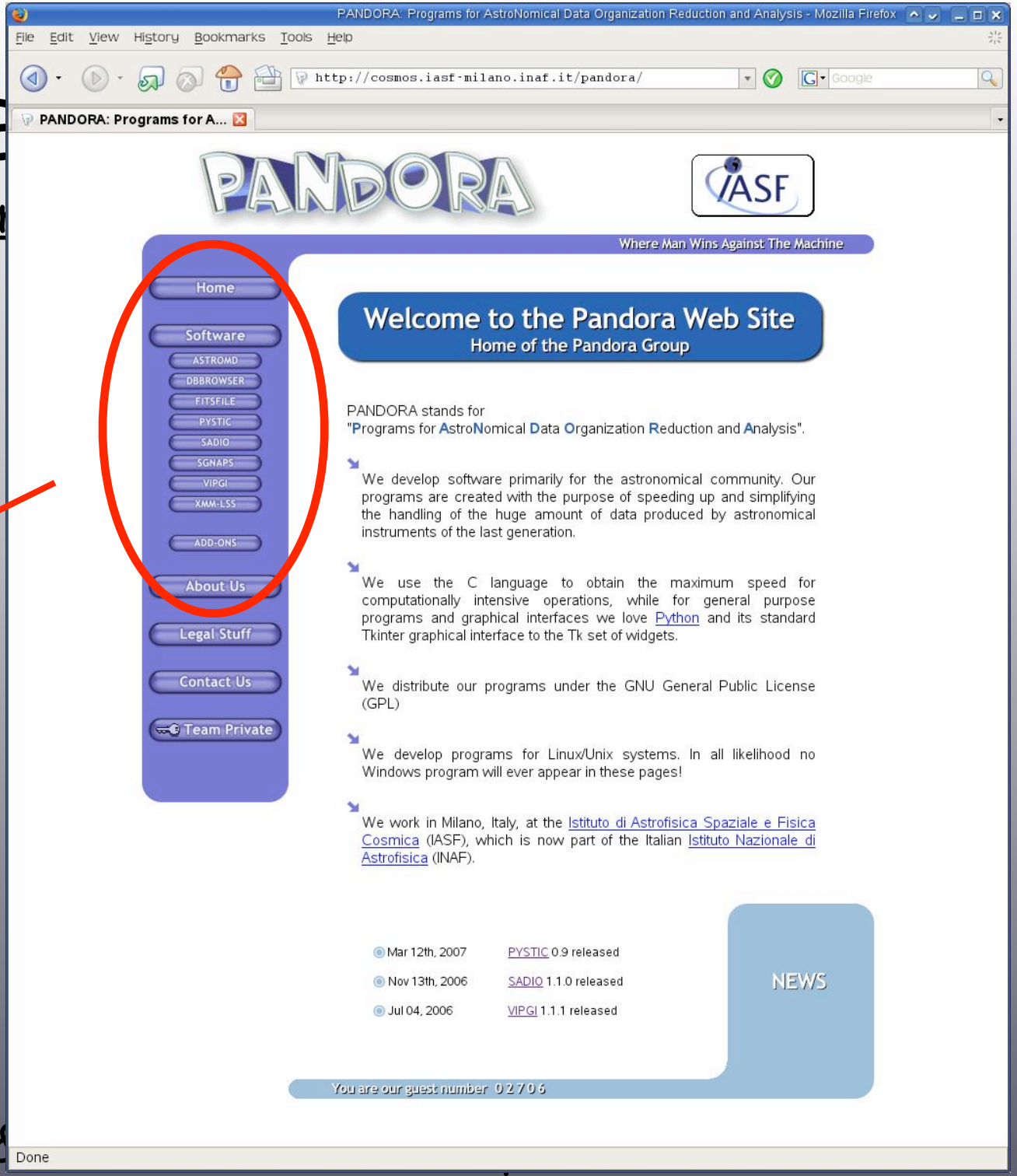
http://cosm



Paolo Franzetti &

E

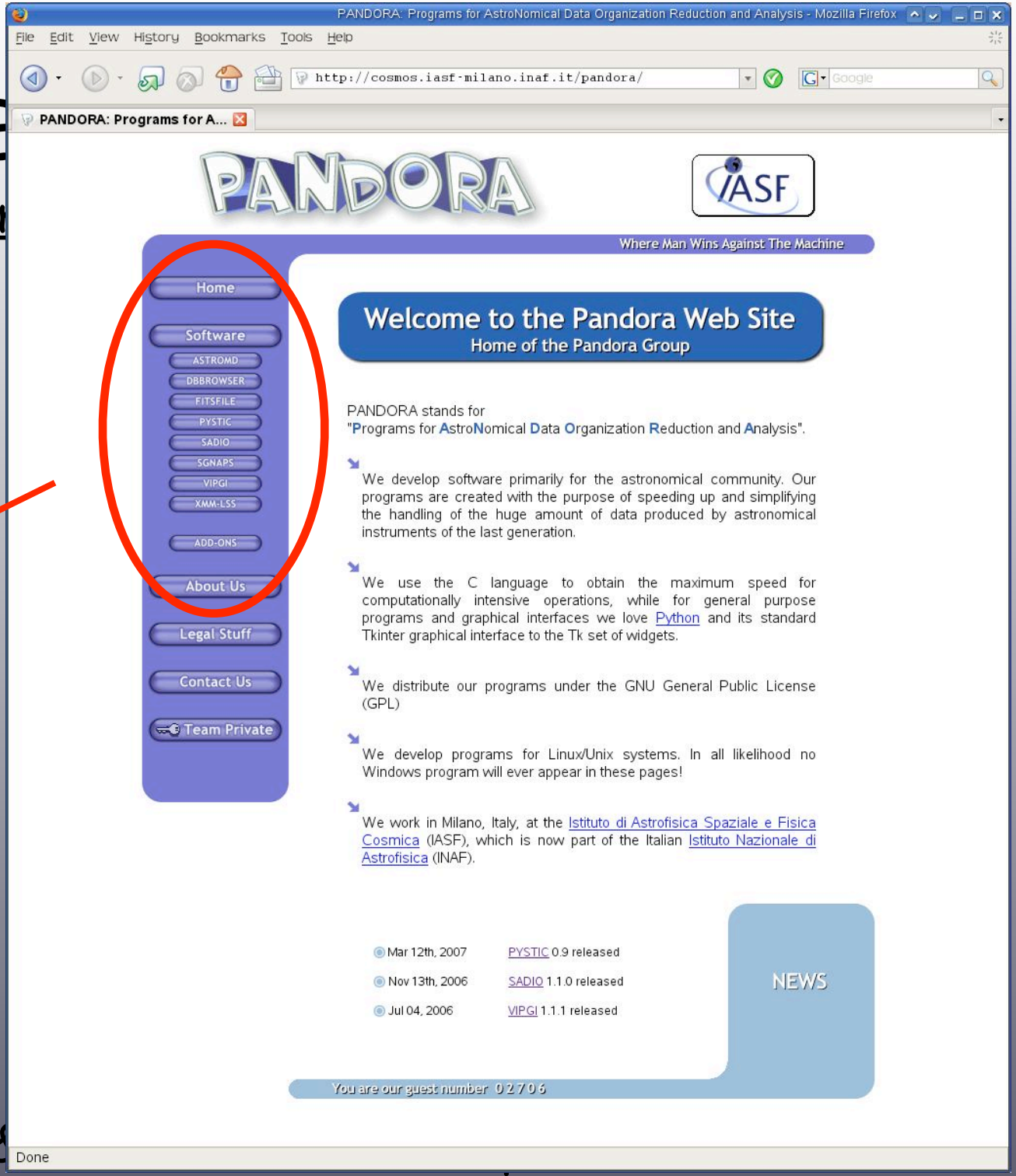
http://cosm



Paolo Franzetti &

E

http://cosm



Paolo Franzetti &

EZ

http://cosmos.iasf-milano.inaf.it/pandora/EZ.html

EZ

http://cosmos.iasf-milano.inaf.it/pandora/EZ.html

EZ: Easy-Z

EZ

http://cosmos.iasf-milano.inaf.it/pandora/EZ.html

EZ: Easy-Z

- Written in python/C

EZ

http://cosmos.iasf-milano.inaf.it/pandora/EZ.html

EZ: Easy-Z

- Written in python/C
- Interactive/Batch mode

EZ

http://cosmos.iasf-milano.inaf.it/pandora/EZ.html

EZ: Easy-Z

- Written in python/C
- Interactive/Batch mode
- Uses a set of user defined templates and a combination of correlation and fitting algorithms

EZ

http://cosmos.iasf-milano.inaf.it/pandora/EZ.html

EZ: Easy-Z

- Written in python/C
- Interactive/Batch mode
- Uses a set of user defined templates and a combination of correlation and fitting algorithms
- Flexible and modular architecture

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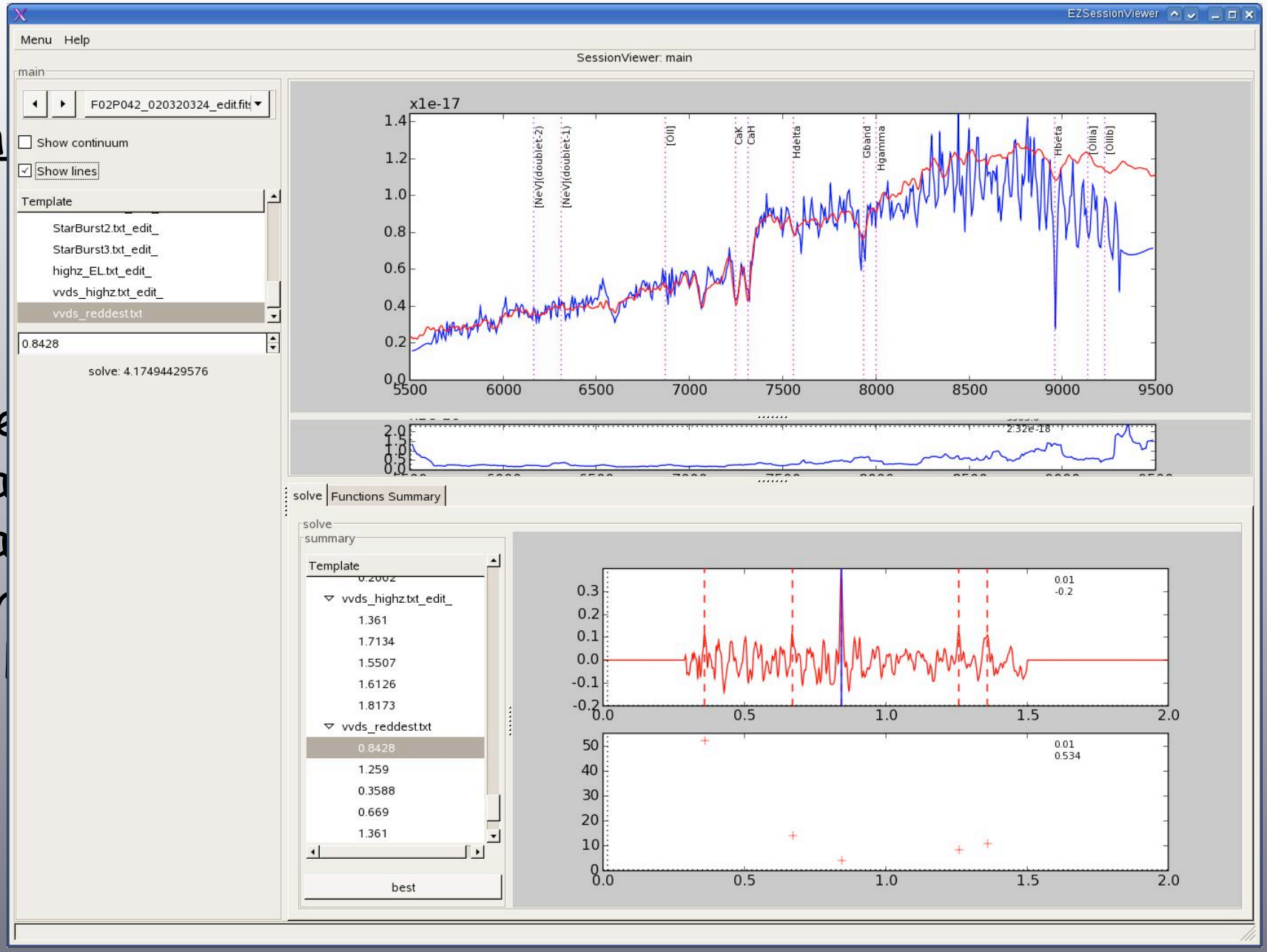

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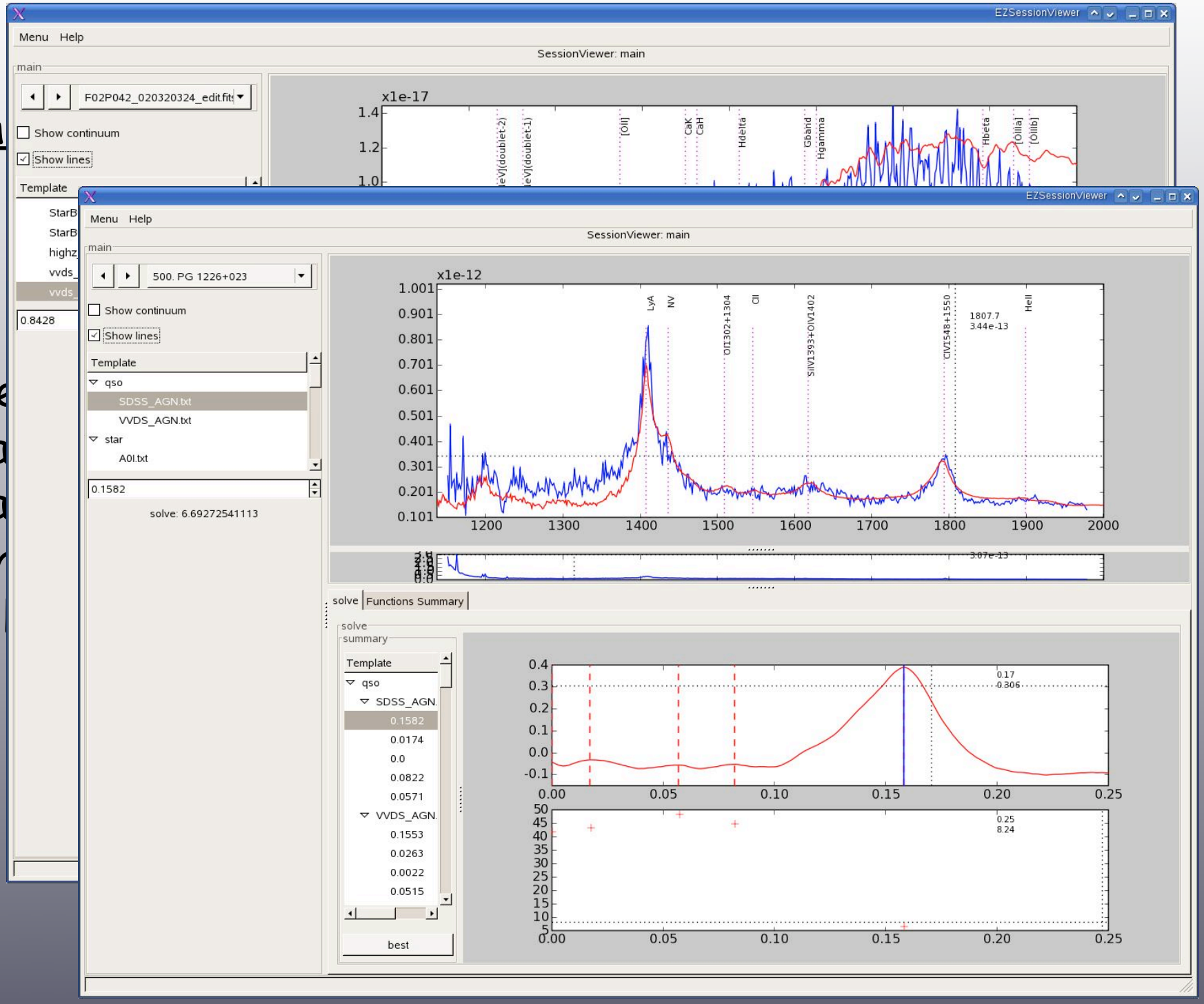

GOSSIP

GOSSIP

GOSSIP: Galaxy Observed Simulated SED Interactive Program

GOSSIP

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GOSSIP is a tool created to perform spectro-photometric analysis of galaxy through the SED fitting

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GOSSIP: Galaxy Observed Simulated SED Interactive Program

GOSSIP is a tool created to perform spectro-photometric analysis of galaxy through the SED fitting

- Build-up the observed SED
- Loading of synthetic models
- Fitting procedure (single CPU, cluster, GRID)
- Results post-processing and analysis

GOSSIP

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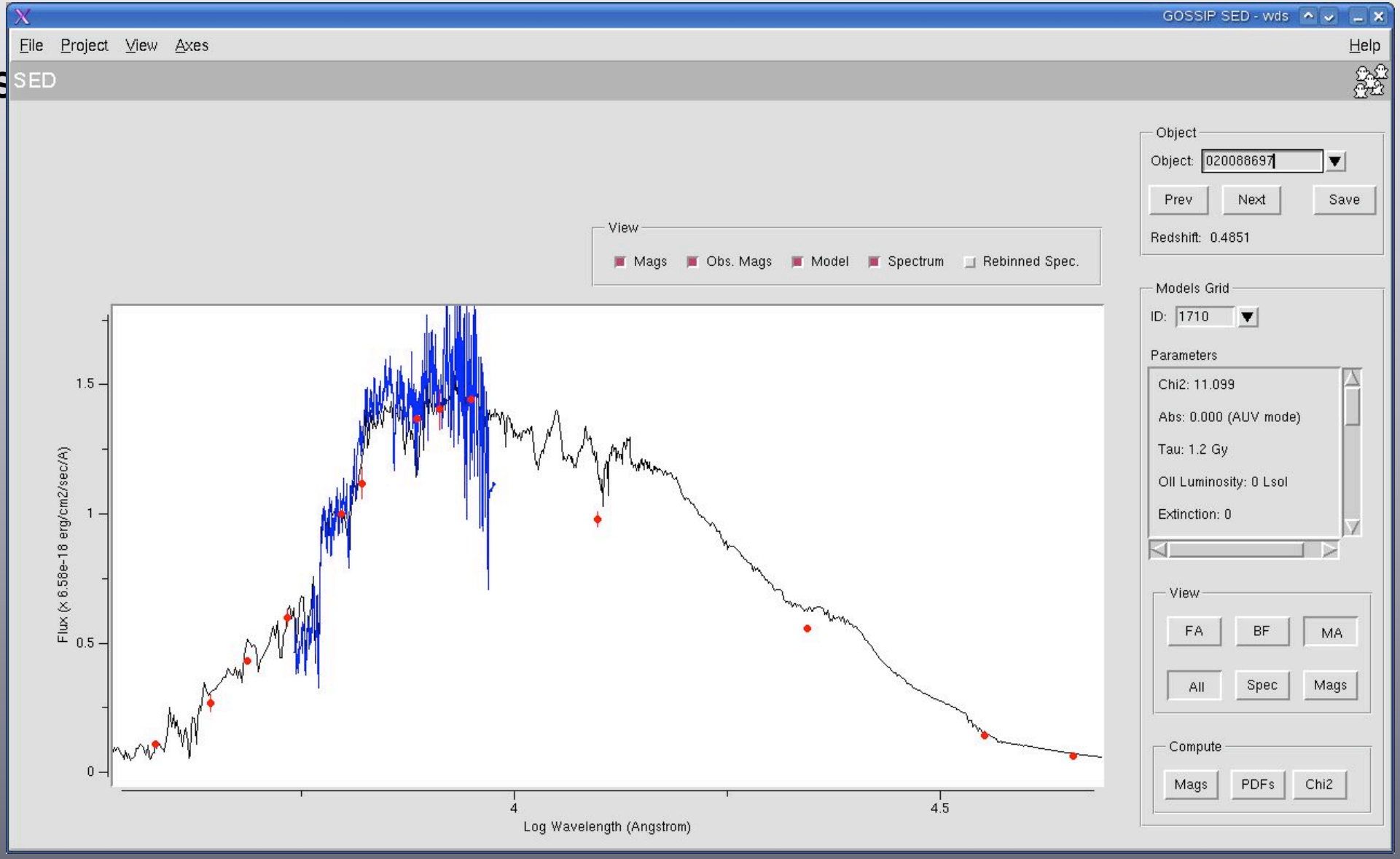
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http://www.euro-vo.org/pub/

http://www.euro-vo.org/pub/

EURO VO

The Euro-VO projects: VOTECH EuroVO-DCA

Science
- Software
- Recipes User Manual
- Scientific Workflows
- Research Initiative
- Science Cases
- Scientific Papers
- Science Advisory Committee
- Acknowledging
- Helpdesk

Technical
- Software
- Registries
- Tutorials
- IVOA Standards ⇒

Data Centres
- Overview
- Partners
- Work Packages

The European Virtual Observatory EURO-VO

The EURO-VO project aims at deploying an operational Virtual Observatory (VO) in Europe. Its objectives are technology take-up and VO compliant resource provision, building the technical infrastructure and to support its utilization by the scientific community.

From AVO to EURO-VO

The Astrophysical Virtual Observatory (AVO) together with further national VO projects created the foundations of a regional-scale infrastructure by conducting a research and demonstration programme on the VO scientific requirements and technologies. AVO was a collaborative project of European organizations in 2002-2004 and was jointly funded by the European Commission under the 5th Framework Programme (HPRI-CT-2001-50030). The EURO-VO work programme is the logical next step from AVO as a Phase-B deployment of an operational VO in Europe.

News & Highlights

NEW! Census of the European astronomical data centers

The EURO-VO Data Centre Alliance project (http://www.euro-vo.org/pub/dca/overview.html) is a Coordination Action funded by the European Commission within the Sixth Framework Program. It aims at helping European astronomical data centres to publish their data and services in the Virtual Observatory, using standards defined by the International Virtual Observatory Alliance (IVOA). EuroVO-DCA operates by coordinating the sharing of expertise, organizing Workshops, and providing assistance, in

The Euro-VO proje

Science
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- Recipes User Manu
- Scientific Workflo
- Research Initiative
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	Tool/Description	Version	Download/Launch
	DATA DISCOVERY		
	Aladin: An interactive software sky atlas allowing the user to visualize digitized images of any part of the sky, to superimpose entries from astronomical catalogs	V5 (February 2008)	Standalone version
	Workbench: A desktop application for working with the Virtual Observatory. It can explore data resources, query remote catalogs, and construct workflows to automate tasks.	2007.1.1	Download Page
	Datascope: A Web Service for discovering and exploring data in the Virtual Observatory from archives and data centres around the world.	V2.1 (March 2007)	Web Service
	SPECTRAL ANALYSIS		
	VOSpec: A multiwavelength spectra analysis tool, with access to both Spectral services (SSAP) and Theoretical Spectral services (TSAP).	V3.0	Launch java applet
	SPLAT: A spectra analysis tool.	Version: 3.8-5	Download Page
	Specview: 1-D spectral visualization and analysis	2.14.1	Download Page or Run Applet
	Euro3D: Analyse datasets in Euro3D FITS format.		Launch Java Webstart or Java applet
	DATA VISUALISATION AND DATA HANDLING		
	Topcat: An interactive graphical viewer and editor for tabular data. It understands a number of different astronomically important formats (including FITS and VOTable) and more formats can be added.	3.2 (January 2008)	Download Page
	VOPlot: A tool to visualise astronomica data.	1.4.1 Beta	Download Page
	VisIVO: A visualisation and analysis software for astrophysical data.		

(IVOA). EuroVO-DCA operates by coordinating the sharing of expertise, organizing Workshops, and providing assistance, in

VirGO: the new Virtual Browser for the ESO Science Archive Facility

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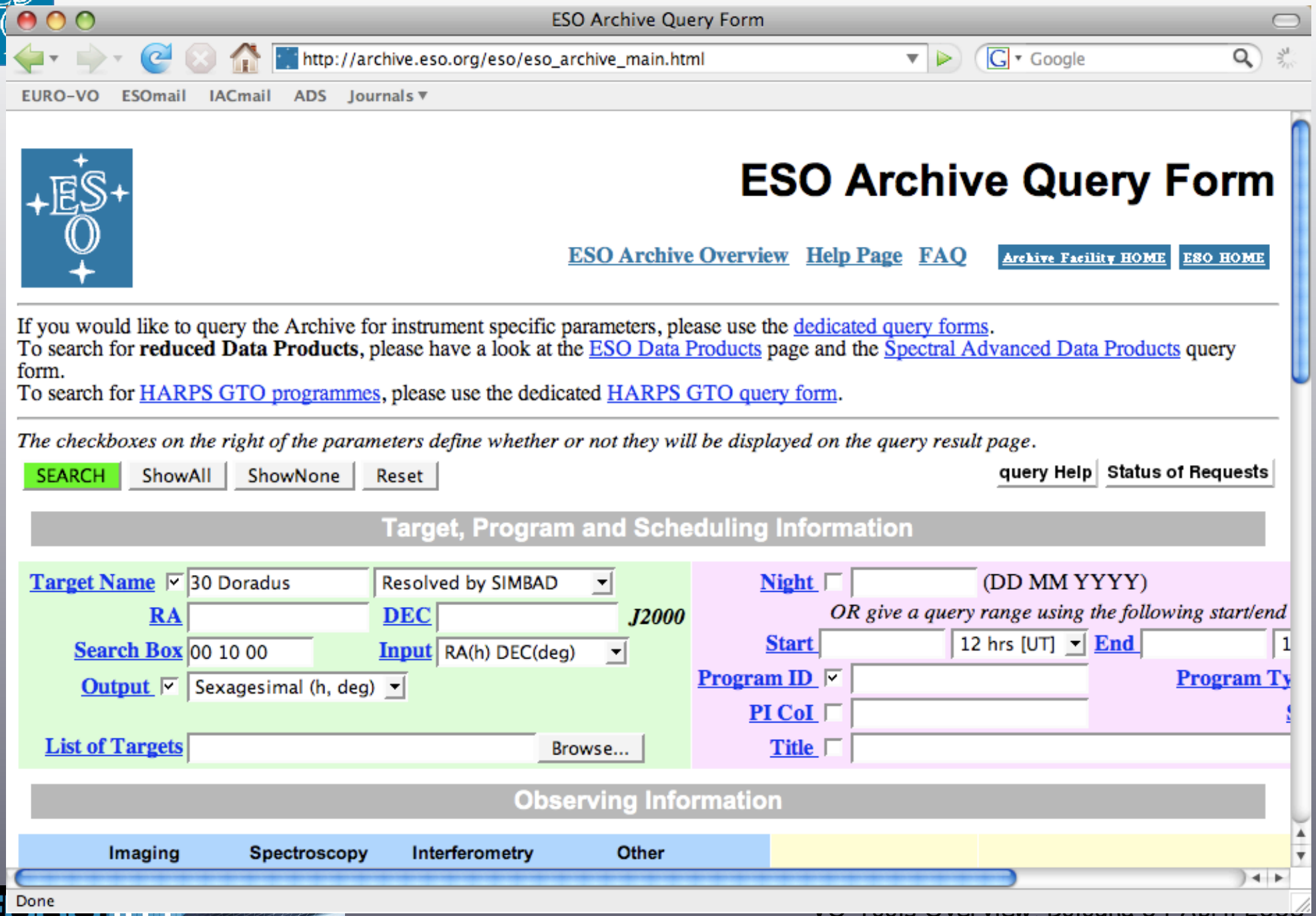
Developed by the VO Systems Department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To search for reduced Data Products, please have a look at the ESO Data Products page and the Spectral Advanced Data Products query form.
To search for HARPS GTO programmes, please use the dedicated HARPS GTO query form.
The checkboxes on the right of the parameters define whether or not they will be displayed on the query result page.
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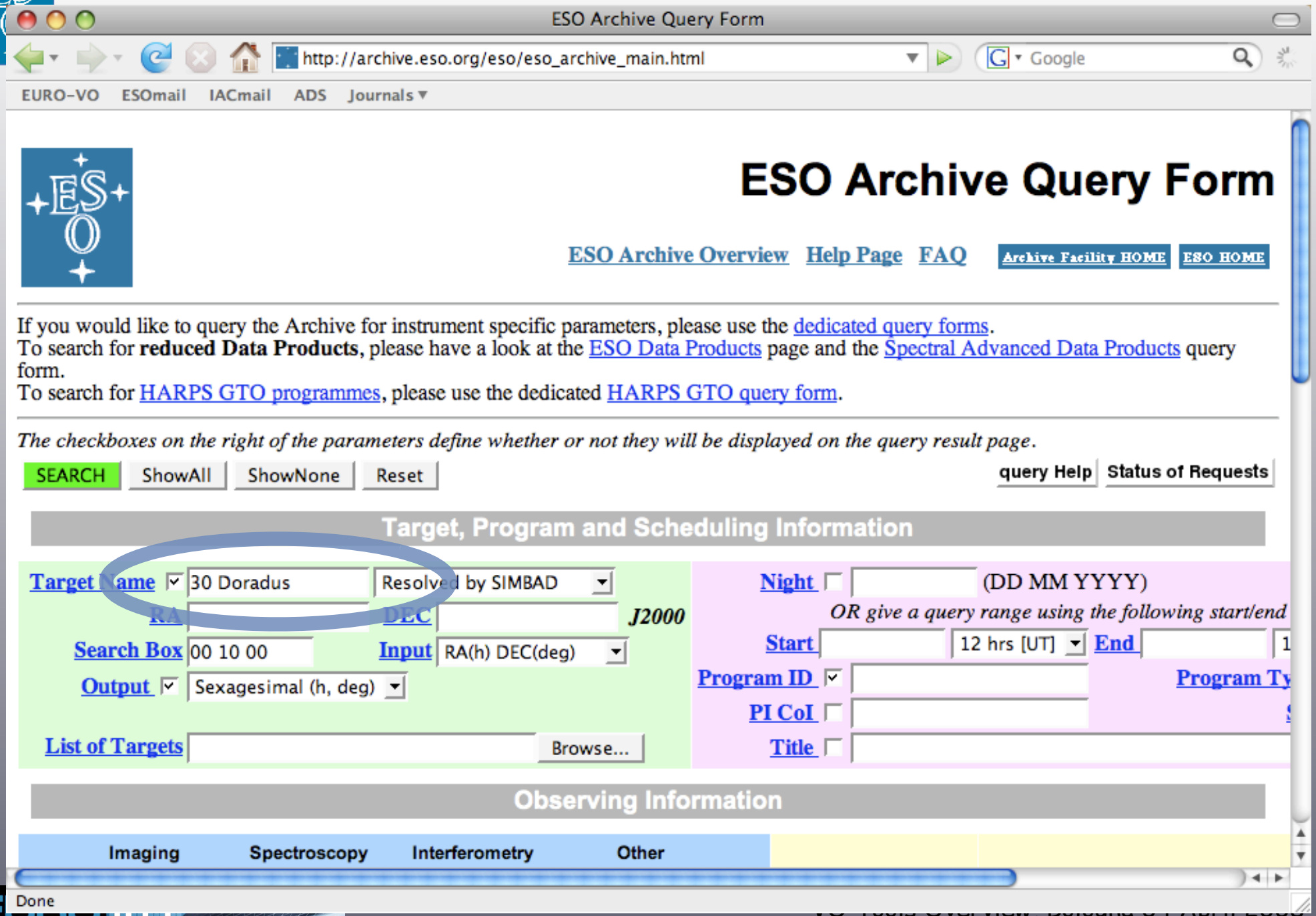
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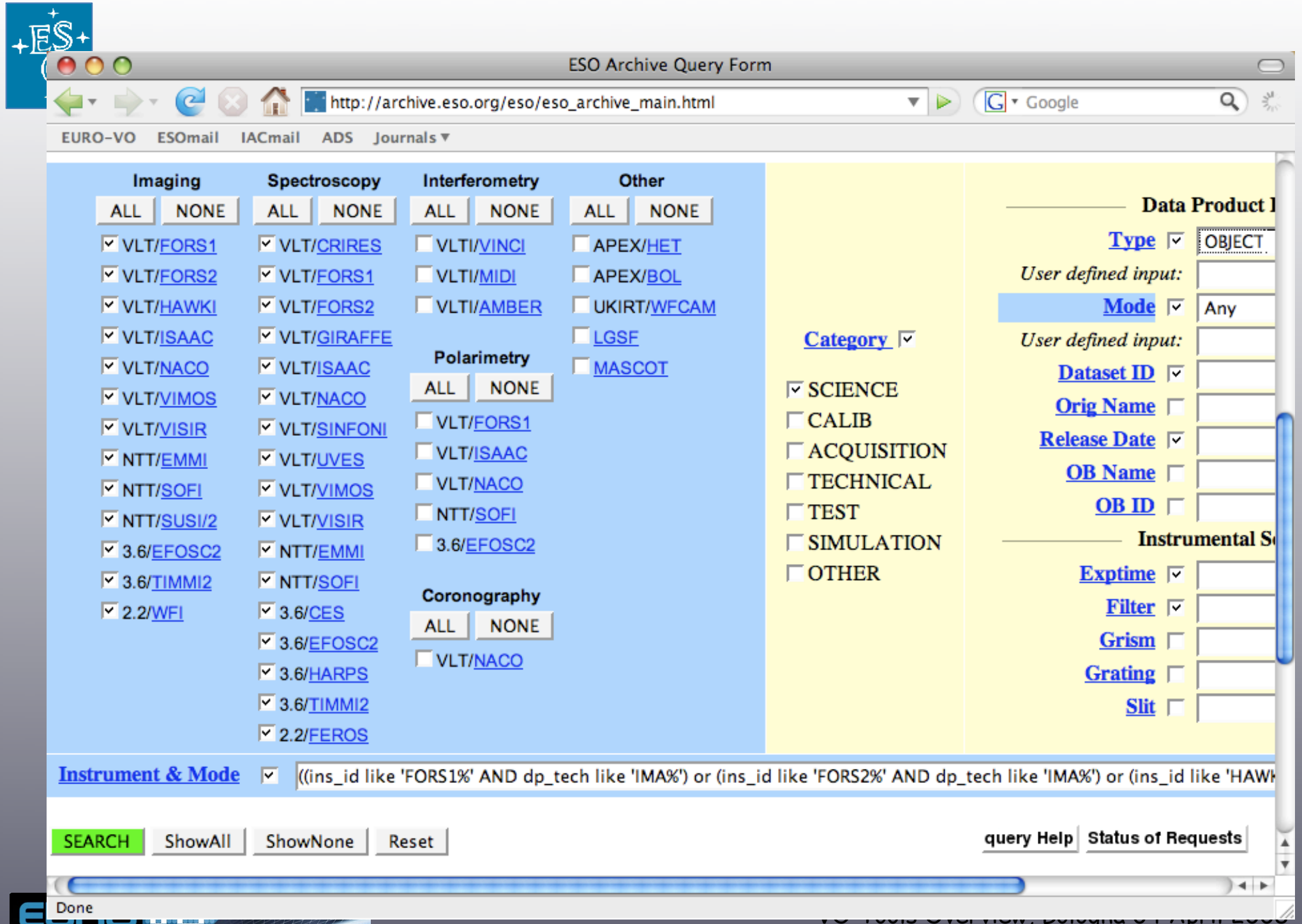
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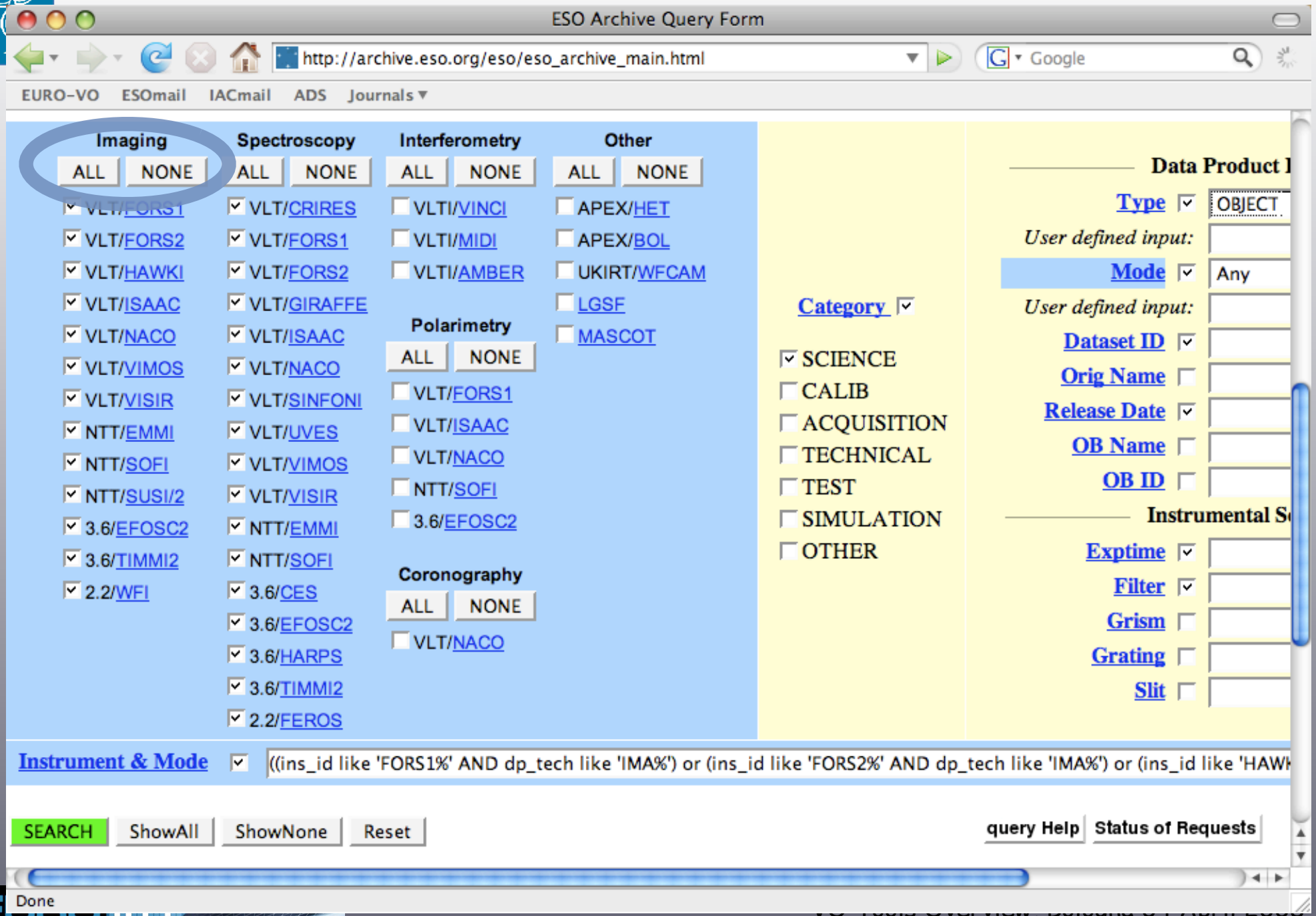
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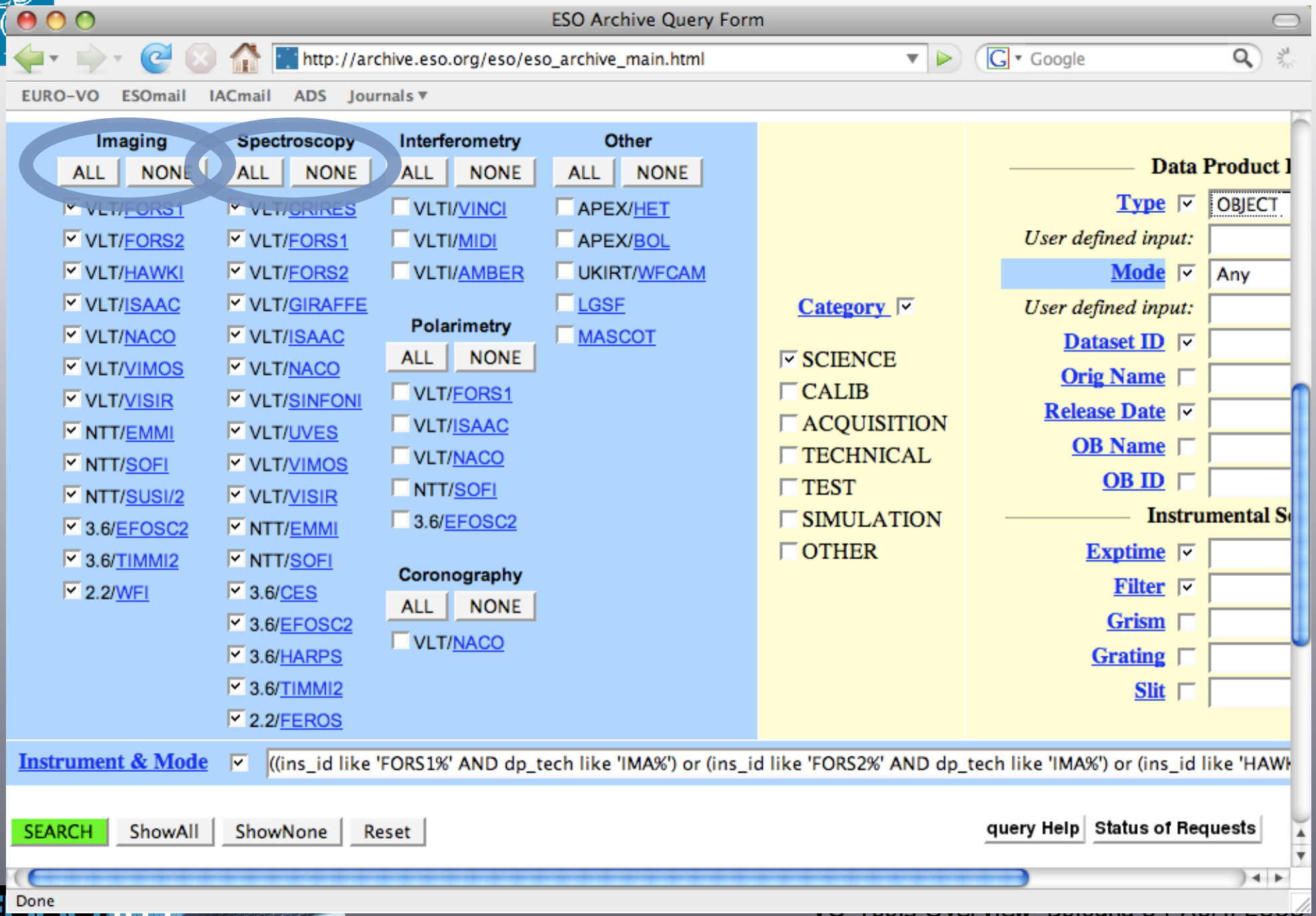
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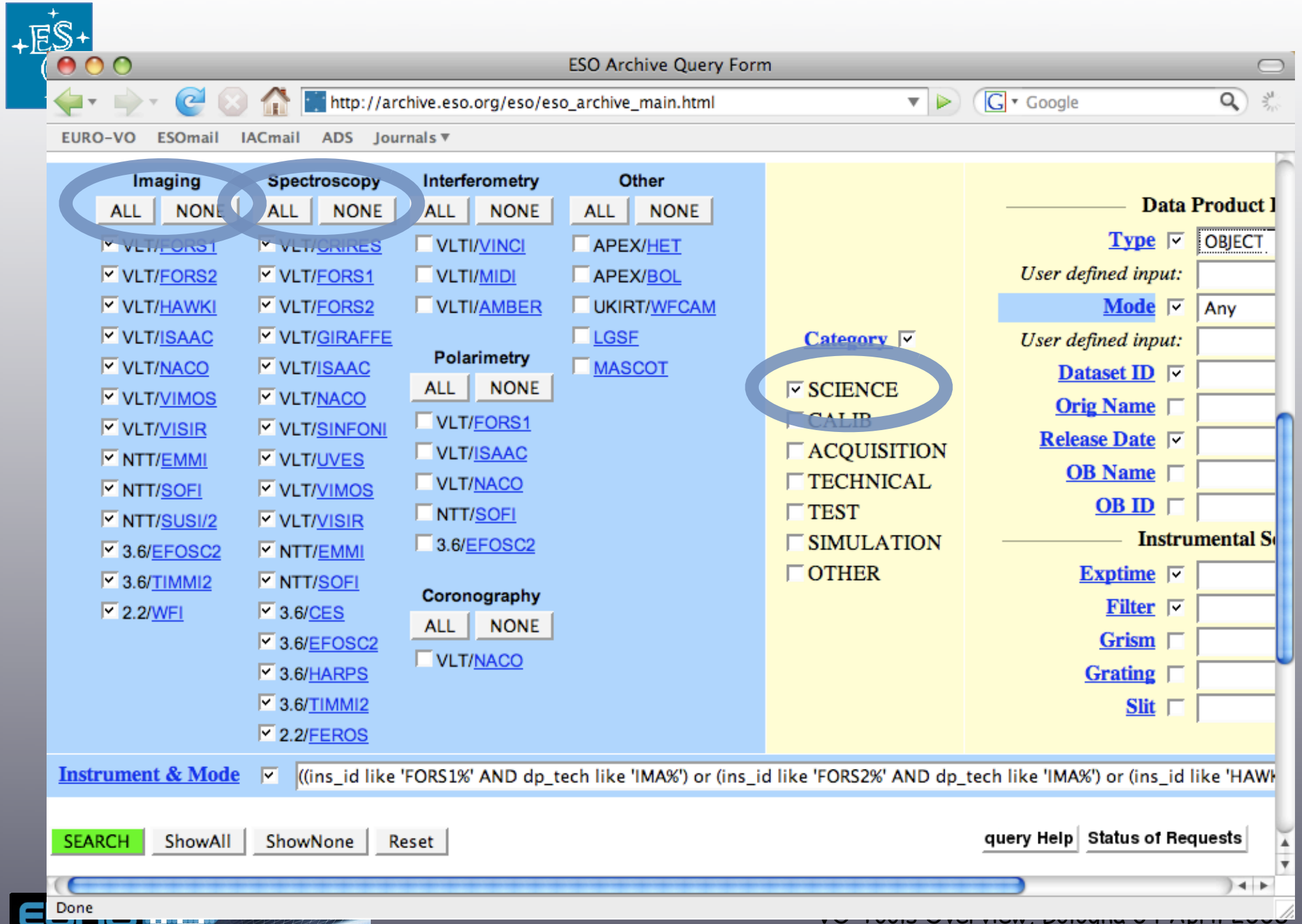
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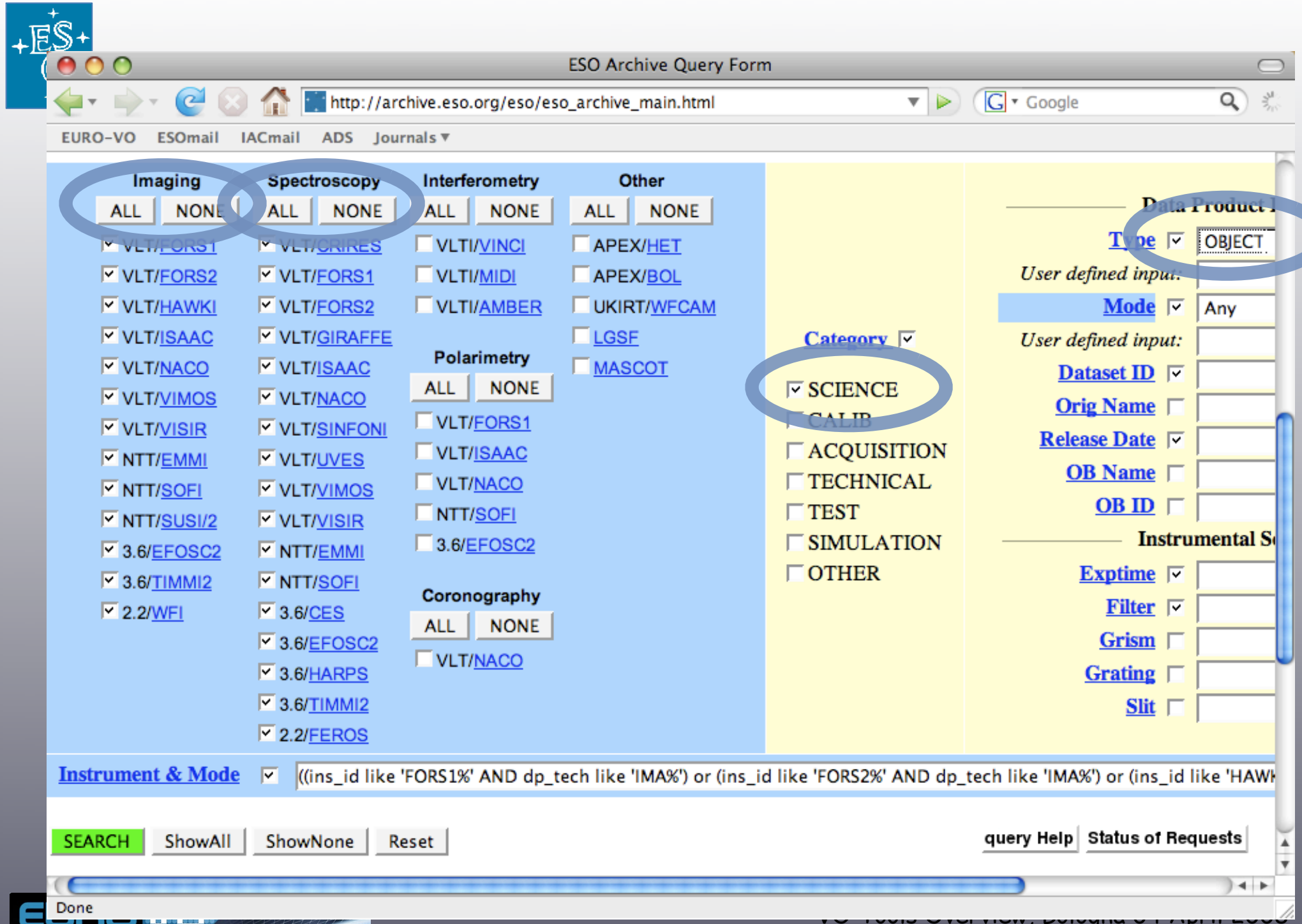
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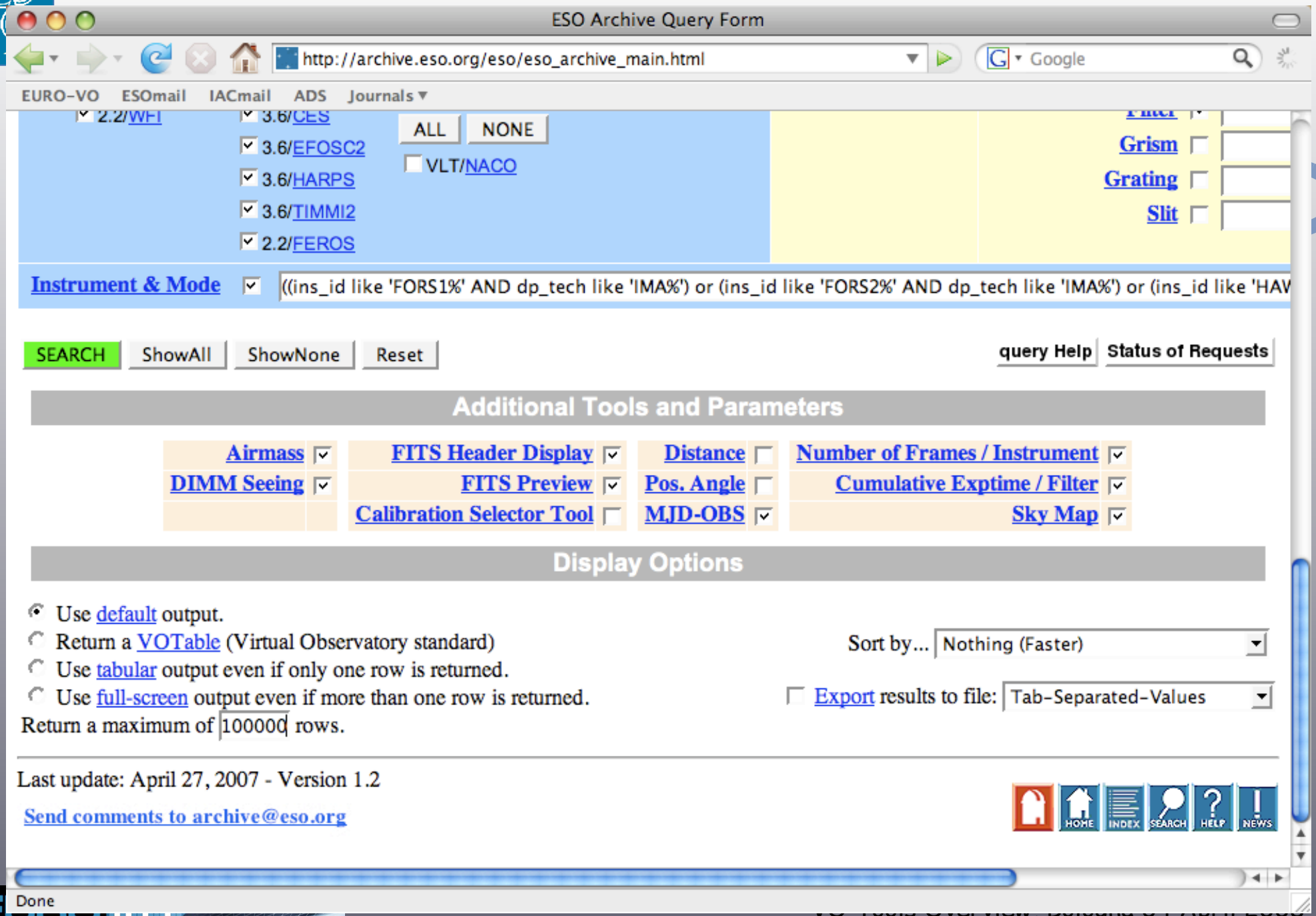
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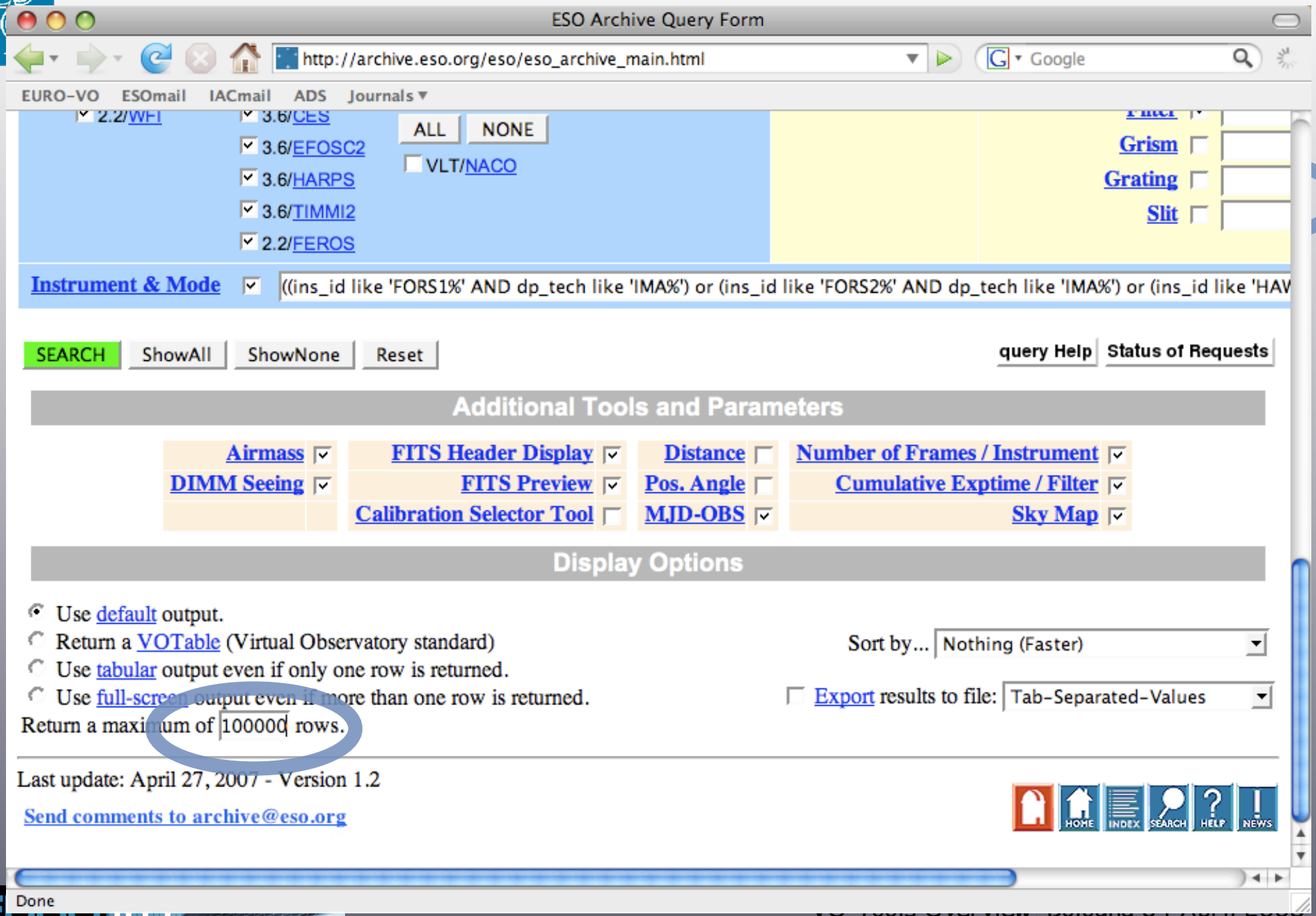
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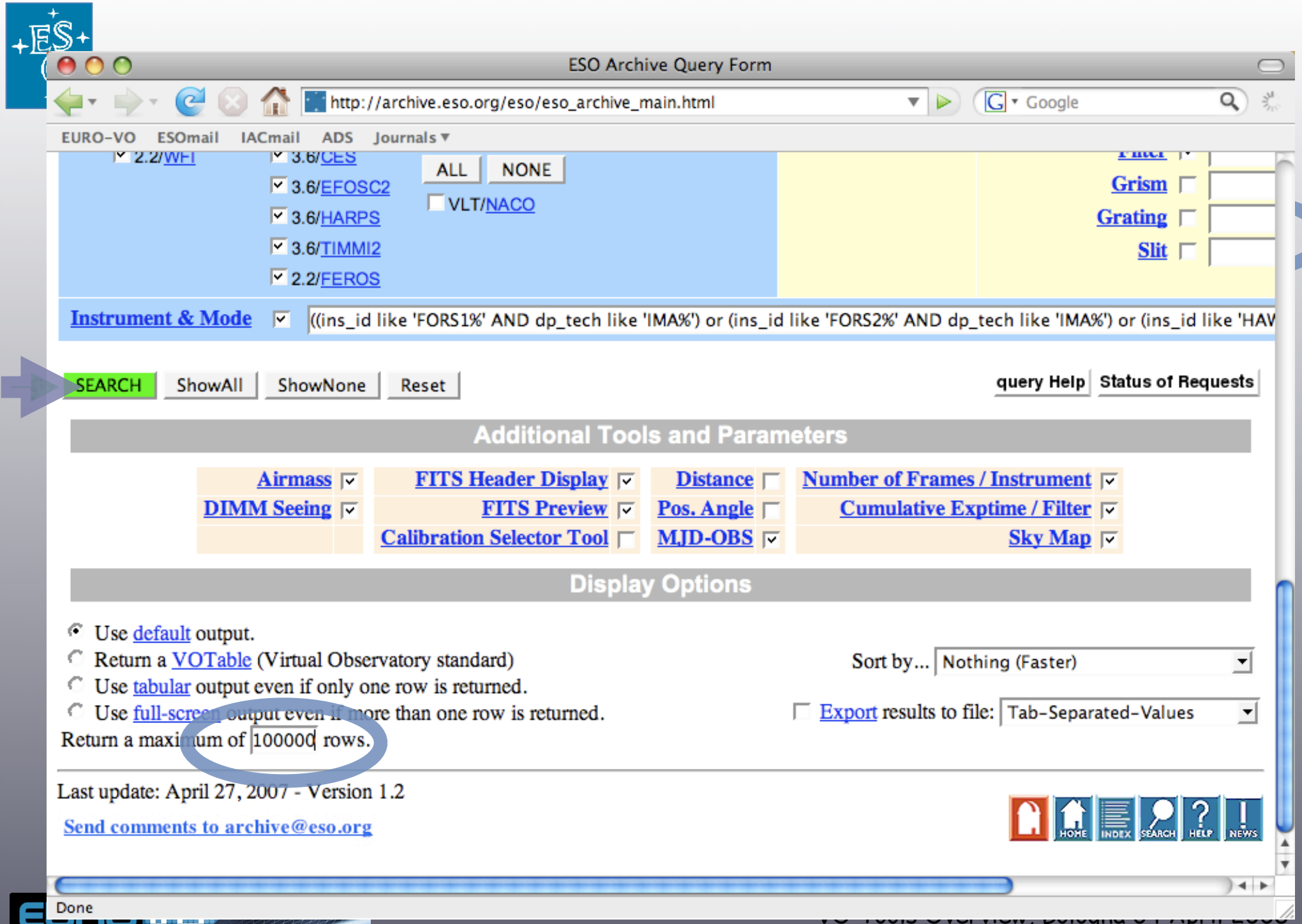
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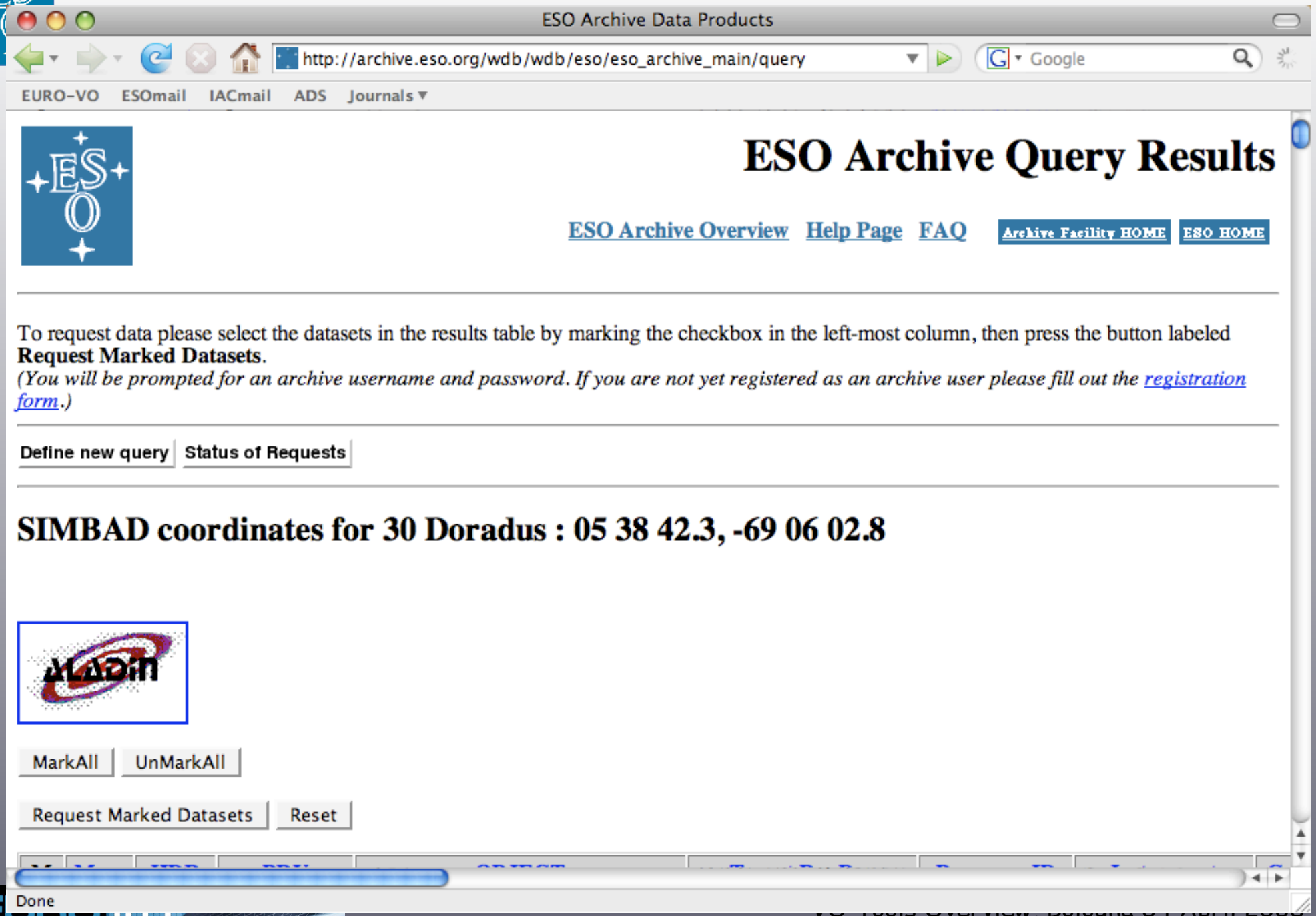
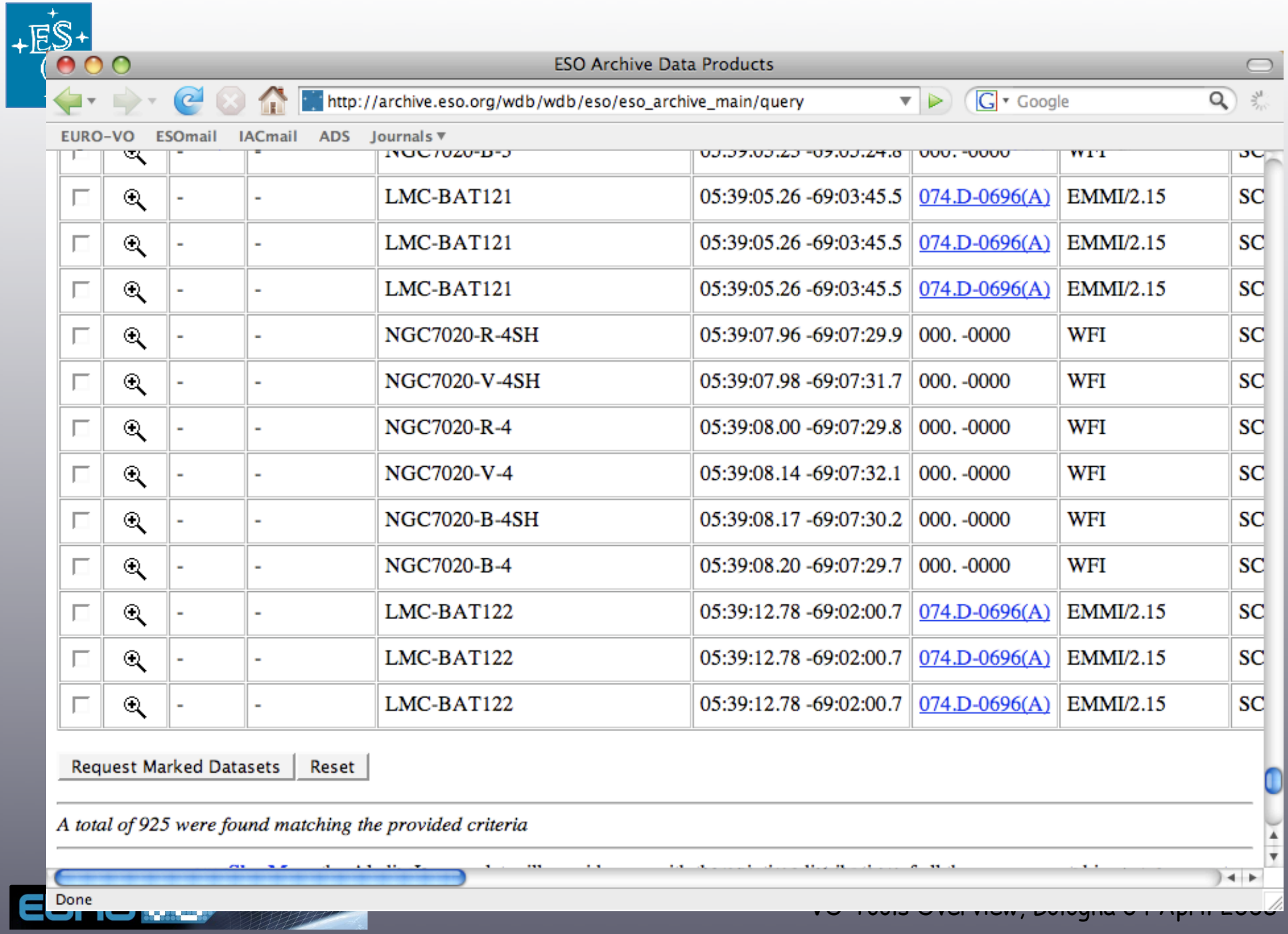
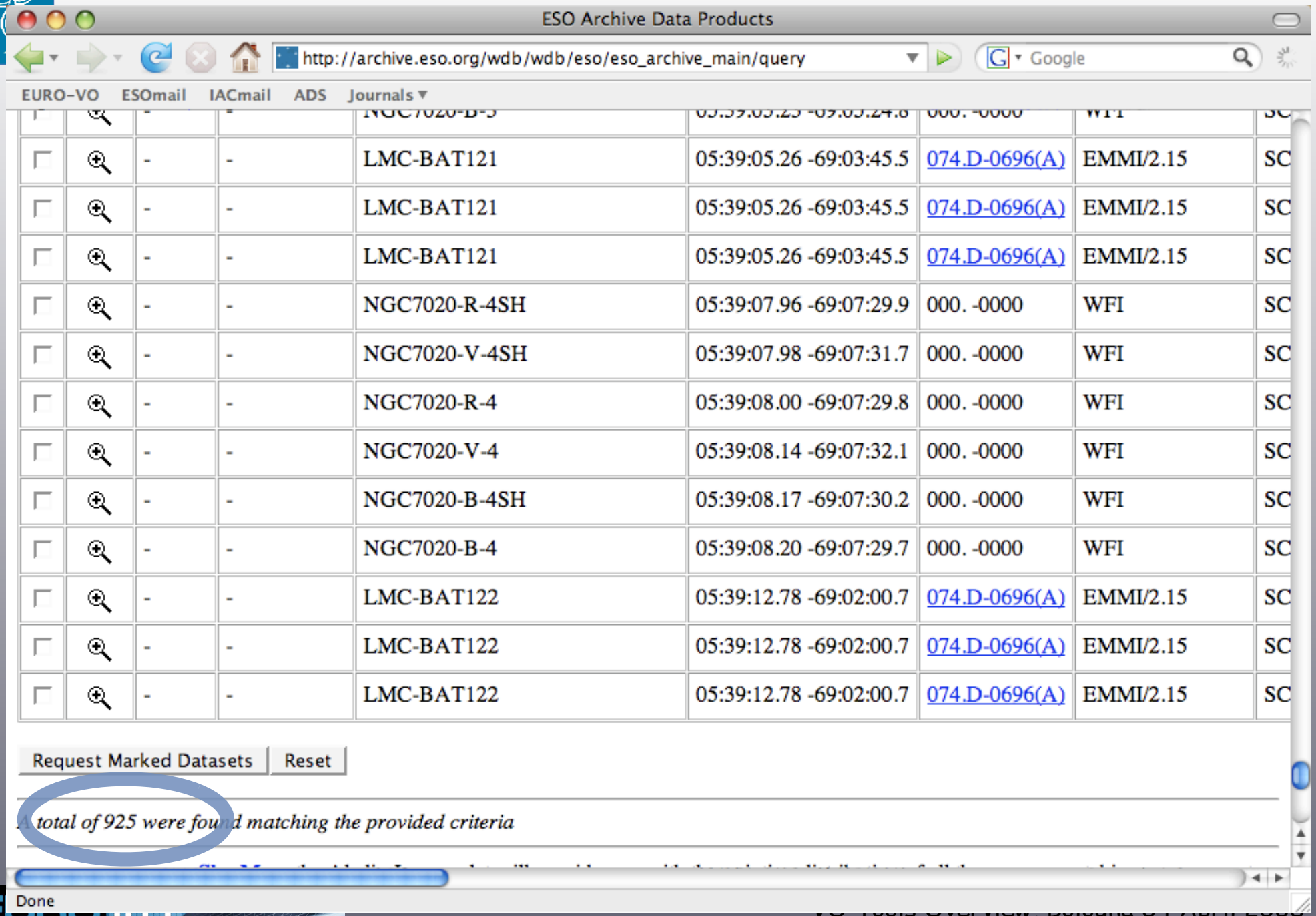
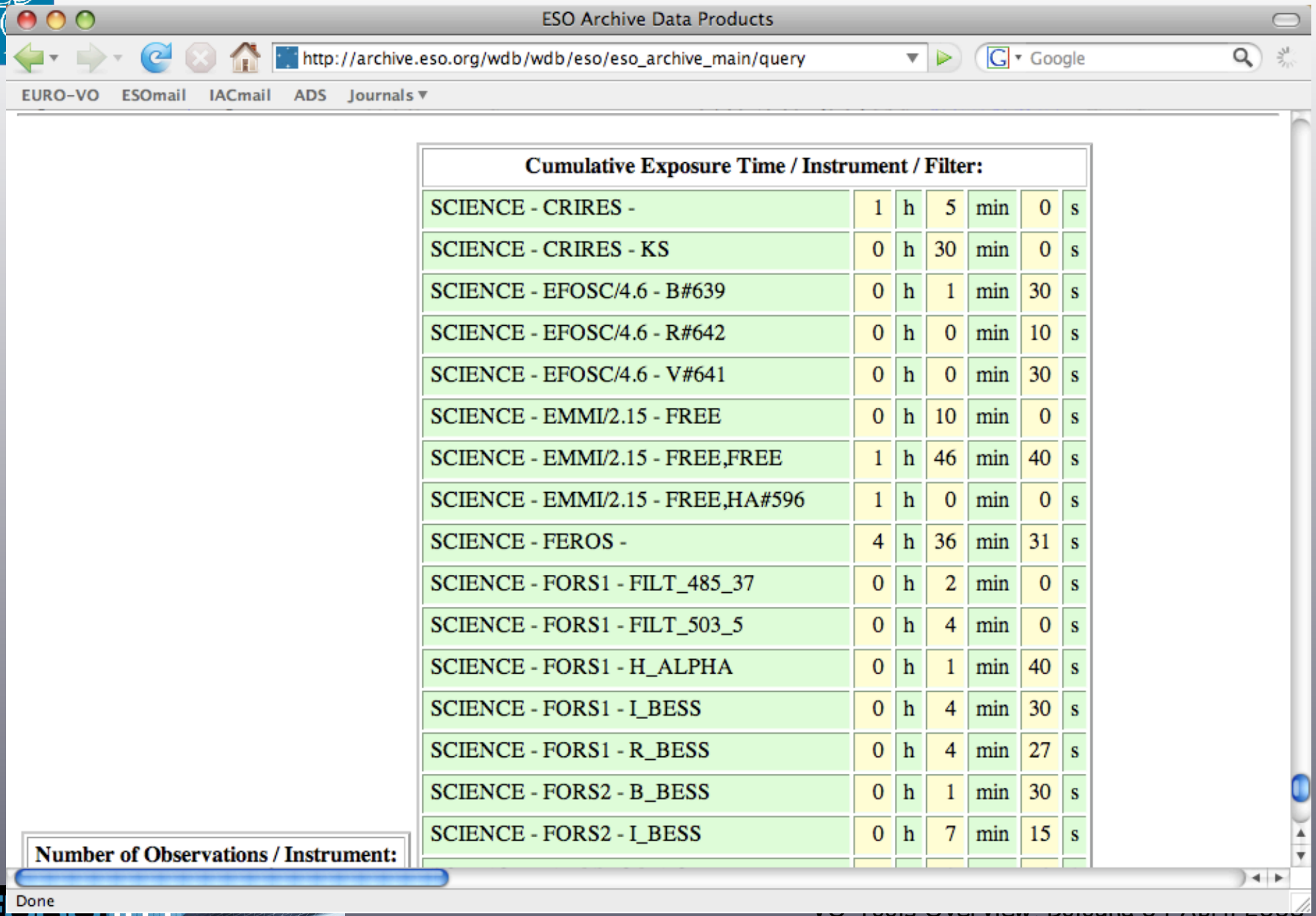
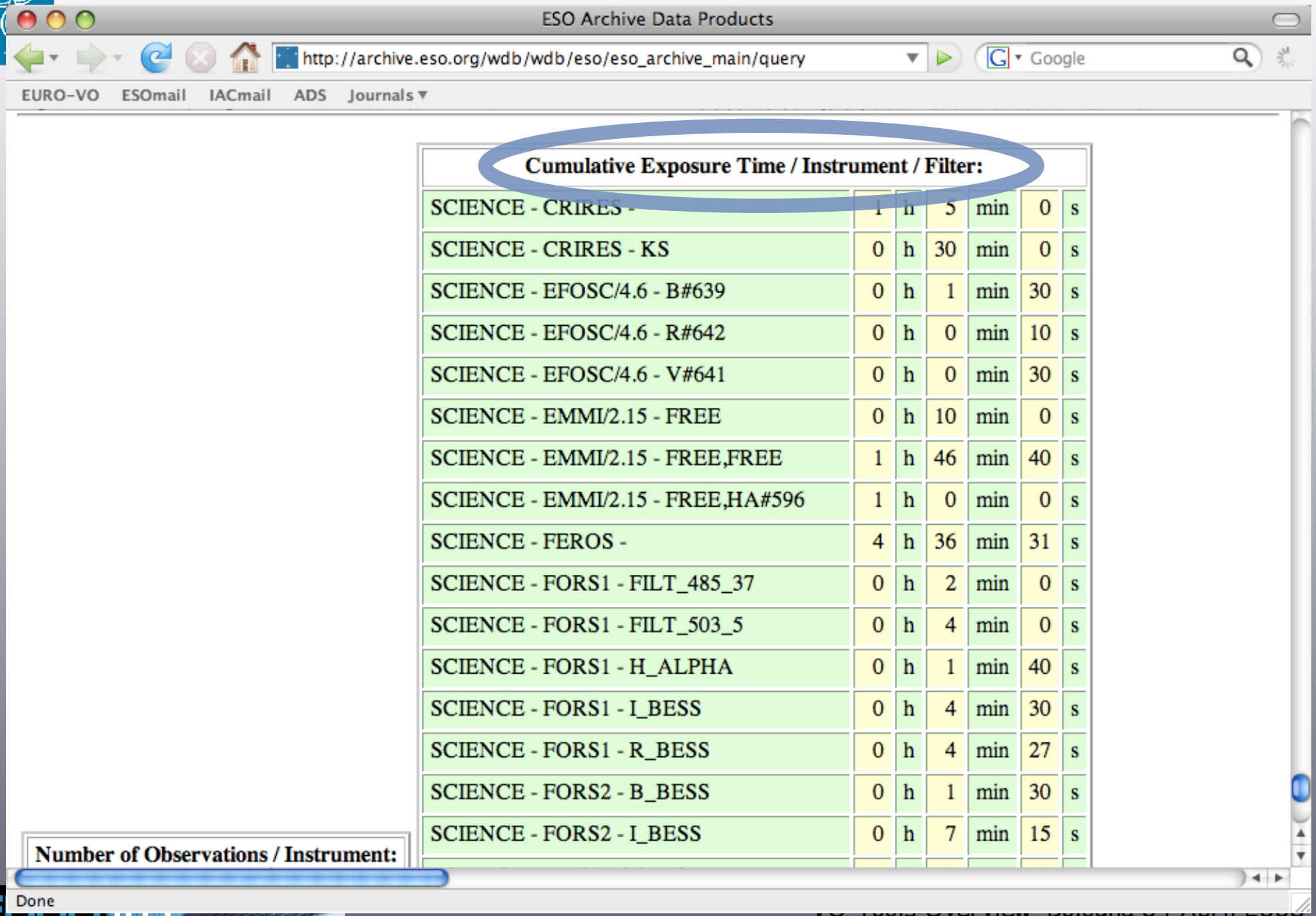
Grating
Slit
Instrument & Mode
((ins_id like 'FORS1%' AND dp_tech like 'IMA%') or (ins_id like 'FORS2%' AND dp_tech like 'IMA%') or (ins_id like 'HAW
SEARCH
ShowAll
ShowNone
Reset
query Help
Status of Requests
Additional Tools and Parameters
Airmass
DIMM Seeing
FITS Header Display
FITS Preview
Calibration Selector Tool
Distance
Pos. Angle
MJD-OBS
Number of Frames / Instrument
Cumulative Exptime / Filter
Sky Map
Display Options
Use default output.
Return a VOTable (Virtual Observatory standard)
Use tabular output even if only one row is returned.
Use full-screen output even if more than one row is returned.
Return a maximum of 100000 rows.
Sort by... Nothing (Faster)
Export results to file: Tab-Separated-Values
Last update: April 27, 2007 - Version 1.2
Send comments to archive@eso.org
HOME
INDEX
SEARCH
HELP
NEWS
Done

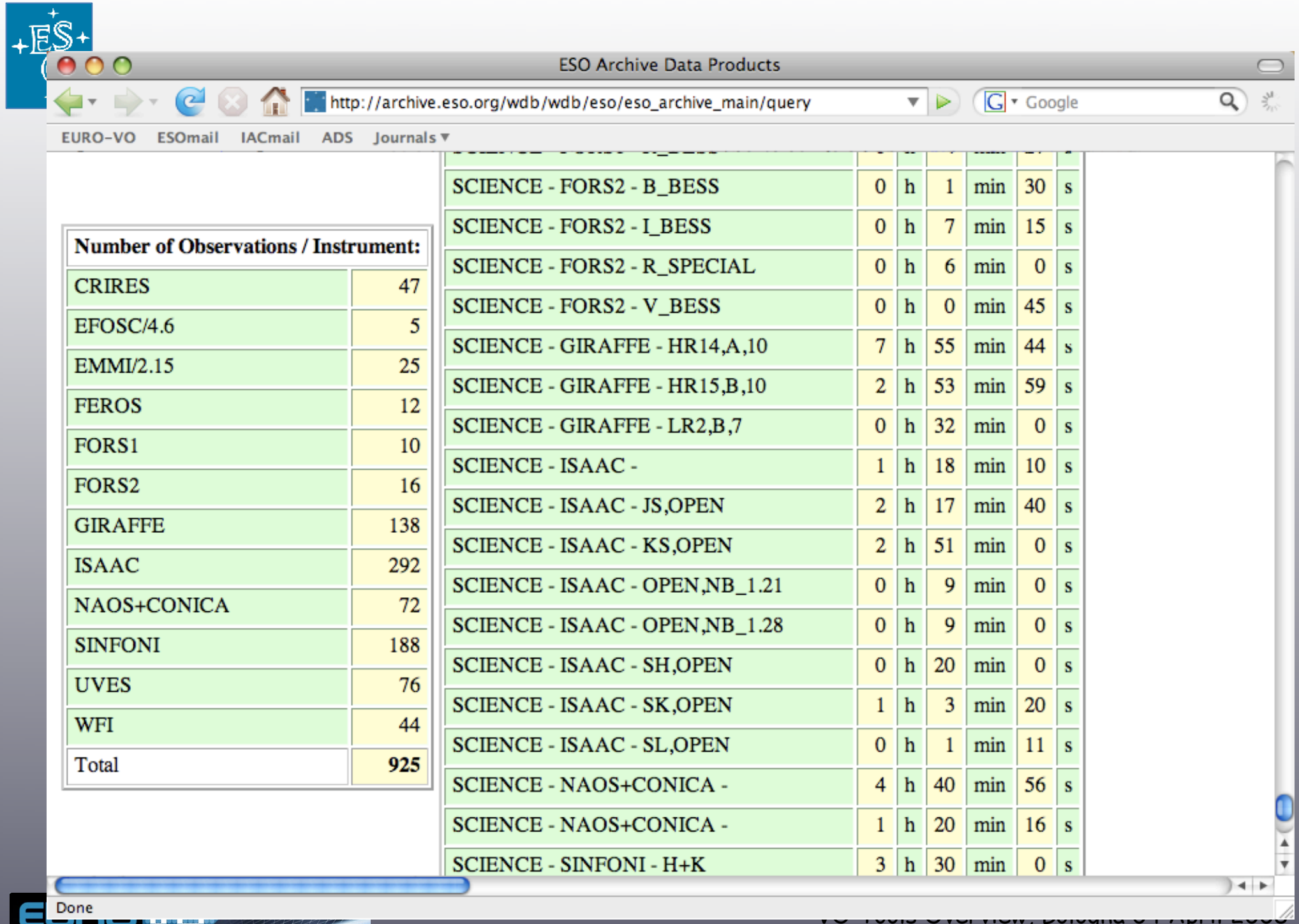

ESO Archive Data Products
http://archive.eso.org/wdb/wdb/eso/eso_archive_main/query
Google
EURO-VO ESOmail IACmail ADS Journals
ESO Archive Query Results
ESO Archive Overview Help Page FAQ Archive Facility HOME ESO HOME
To request data please select the datasets in the results table by marking the checkbox in the left-most column, then press the button labeled Request Marked Datasets.
(You will be prompted for an archive username and password. If you are not yet registered as an archive user please fill out the registration form.)
Define new query Status of Requests
SIMBAD coordinates for 30 Doradus : 05 38 42.3, -69 06 02.8
aladin
MarkAll UnMarkAll
Request Marked Datasets Reset
Done


ESO Archive Data Products
http://archive.eso.org/wdb/wdb/eso/eso_archive_main/query
Google
EURO-VO
ESOmail
IACmail
ADS
Journals
LMC-BAT121 05:39:05.26 -69:03:45.5 074.D-0696(A) EMMI/2.15
LMC-BAT121 05:39:05.26 -69:03:45.5 074.D-0696(A) EMMI/2.15
LMC-BAT121 05:39:05.26 -69:03:45.5 074.D-0696(A) EMMI/2.15
NGC7020-R-4SH 05:39:07.96 -69:07:29.9 000. -0000 WFI
NGC7020-V-4SH 05:39:07.98 -69:07:31.7 000. -0000 WFI
NGC7020-R-4 05:39:08.00 -69:07:29.8 000. -0000 WFI
NGC7020-V-4 05:39:08.14 -69:07:32.1 000. -0000 WFI
NGC7020-B-4SH 05:39:08.17 -69:07:30.2 000. -0000 WFI
NGC7020-B-4 05:39:08.20 -69:07:29.7 000. -0000 WFI
LMC-BAT122 05:39:12.78 -69:02:00.7 074.D-0696(A) EMMI/2.15
LMC-BAT122 05:39:12.78 -69:02:00.7 074.D-0696(A) EMMI/2.15
LMC-BAT122 05:39:12.78 -69:02:00.7 074.D-0696(A) EMMI/2.15
Request Marked Datasets
Reset
A total of 925 were found matching the provided criteria
Done


ESO Archive Data Products
http://archive.eso.org/wdb/wdb/eso/eso_archive_main/query
Google
EURO-VO
ESOmail
IACmail
ADS
Journals
LMC-BAT121 05:39:05.26 -69:03:45.5 074.D-0696(A) EMMI/2.15
LMC-BAT121 05:39:05.26 -69:03:45.5 074.D-0696(A) EMMI/2.15
LMC-BAT121 05:39:05.26 -69:03:45.5 074.D-0696(A) EMMI/2.15
NGC7020-R-4SH 05:39:07.96 -69:07:29.9 000. -0000 WFI
NGC7020-V-4SH 05:39:07.98 -69:07:31.7 000. -0000 WFI
NGC7020-R-4 05:39:08.00 -69:07:29.8 000. -0000 WFI
NGC7020-V-4 05:39:08.14 -69:07:32.1 000. -0000 WFI
NGC7020-B-4SH 05:39:08.17 -69:07:30.2 000. -0000 WFI
NGC7020-B-4 05:39:08.20 -69:07:29.7 000. -0000 WFI
LMC-BAT122 05:39:12.78 -69:02:00.7 074.D-0696(A) EMMI/2.15
LMC-BAT122 05:39:12.78 -69:02:00.7 074.D-0696(A) EMMI/2.15
LMC-BAT122 05:39:12.78 -69:02:00.7 074.D-0696(A) EMMI/2.15
Request Marked Datasets
Reset
A total of 925 were found matching the provided criteria
Done

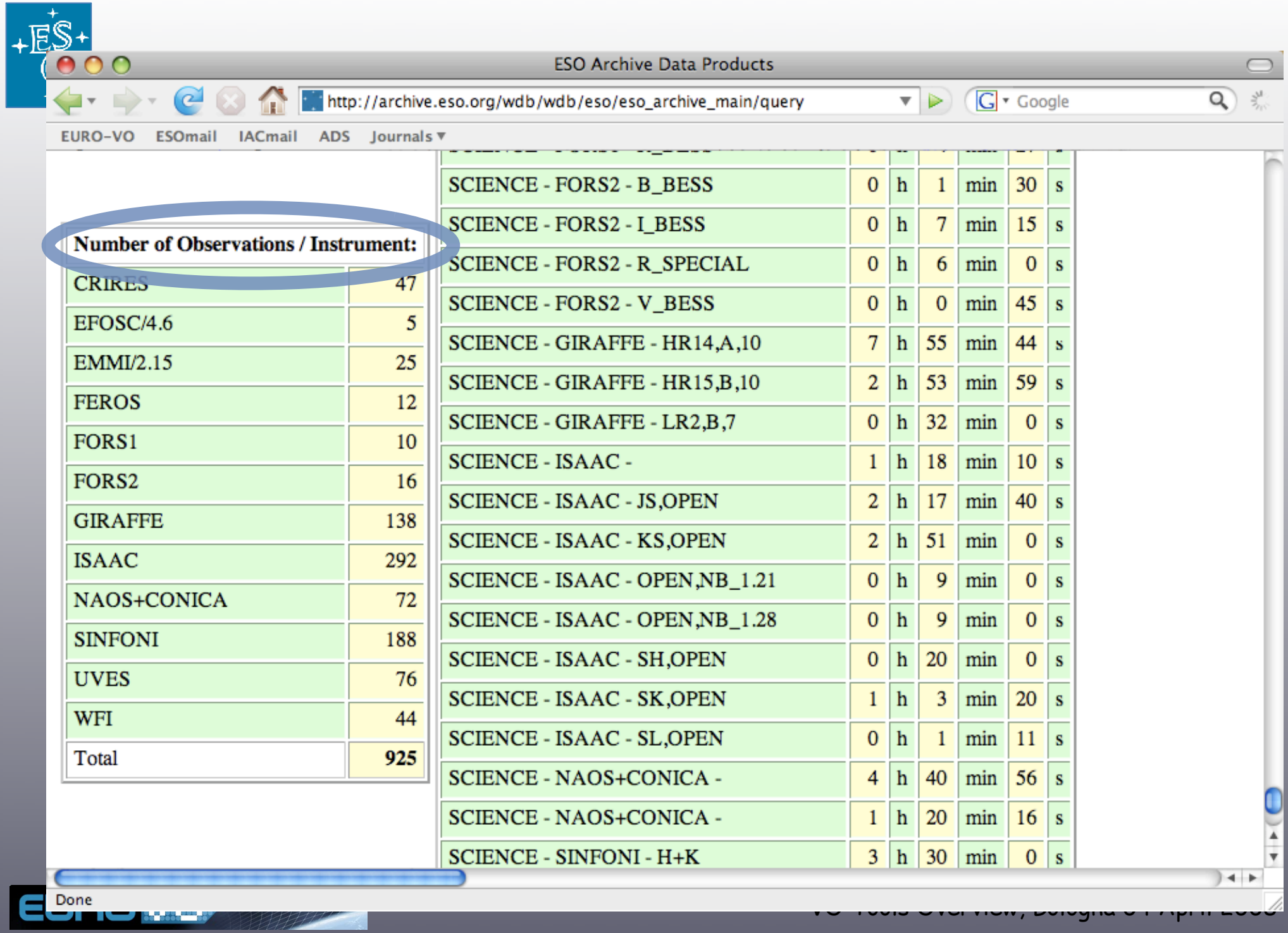

ESO Archive Data Products
http://archive.eso.org/wdb/wdb/eso/eso_archive_main/query
Google
EURO-VO
ESOmail
IACmail
ADS
Journals
Cumulative Exposure Time / Instrument / Filter:
SCIENCE - CRIRES - 1 h 5 min 0 s
SCIENCE - CRIRES - KS 0 h 30 min 0 s
SCIENCE - EFOSC/4.6 - B#639 0 h 1 min 30 s
SCIENCE - EFOSC/4.6 - R#642 0 h 0 min 10 s
SCIENCE - EFOSC/4.6 - V#641 0 h 0 min 30 s
SCIENCE - EMMI/2.15 - FREE 0 h 10 min 0 s
SCIENCE - EMMI/2.15 - FREE,FREE 1 h 46 min 40 s
SCIENCE - EMMI/2.15 - FREE,HA#596 1 h 0 min 0 s
SCIENCE - FEROS - 4 h 36 min 31 s
SCIENCE - FORS1 - FILT_485_37 0 h 2 min 0 s
SCIENCE - FORS1 - FILT_503_5 0 h 4 min 0 s
SCIENCE - FORS1 - H_ALPHA 0 h 1 min 40 s
SCIENCE - FORS1 - I_BESS 0 h 4 min 30 s
SCIENCE - FORS1 - R_BESS 0 h 4 min 27 s
SCIENCE - FORS2 - B_BESS 0 h 1 min 30 s
SCIENCE - FORS2 - I_BESS 0 h 7 min 15 s
Number of Observations / Instrument:
Done


ESO Archive Data Products
http://archive.eso.org/wdb/wdb/eso/eso_archive_main/query
Google
EURO-VO
ESOmail
IACmail
ADS
Journals
Cumulative Exposure Time / Instrument / Filter:
SCIENCE - CRIRES - 1 h 5 min 0 s
SCIENCE - CRIRES - KS 0 h 30 min 0 s
SCIENCE - EFOSC/4.6 - B#639 0 h 1 min 30 s
SCIENCE - EFOSC/4.6 - R#642 0 h 0 min 10 s
SCIENCE - EFOSC/4.6 - V#641 0 h 0 min 30 s
SCIENCE - EMMI/2.15 - FREE 0 h 10 min 0 s
SCIENCE - EMMI/2.15 - FREE,FREE 1 h 46 min 40 s
SCIENCE - EMMI/2.15 - FREE,HA#596 1 h 0 min 0 s
SCIENCE - FEROS - 4 h 36 min 31 s
SCIENCE - FORS1 - FILT_485_37 0 h 2 min 0 s
SCIENCE - FORS1 - FILT_503_5 0 h 4 min 0 s
SCIENCE - FORS1 - H_ALPHA 0 h 1 min 40 s
SCIENCE - FORS1 - I_BESS 0 h 4 min 30 s
SCIENCE - FORS1 - R_BESS 0 h 4 min 27 s
SCIENCE - FORS2 - B_BESS 0 h 1 min 30 s
SCIENCE - FORS2 - I_BESS 0 h 7 min 15 s
Number of Observations / Instrument:
Done



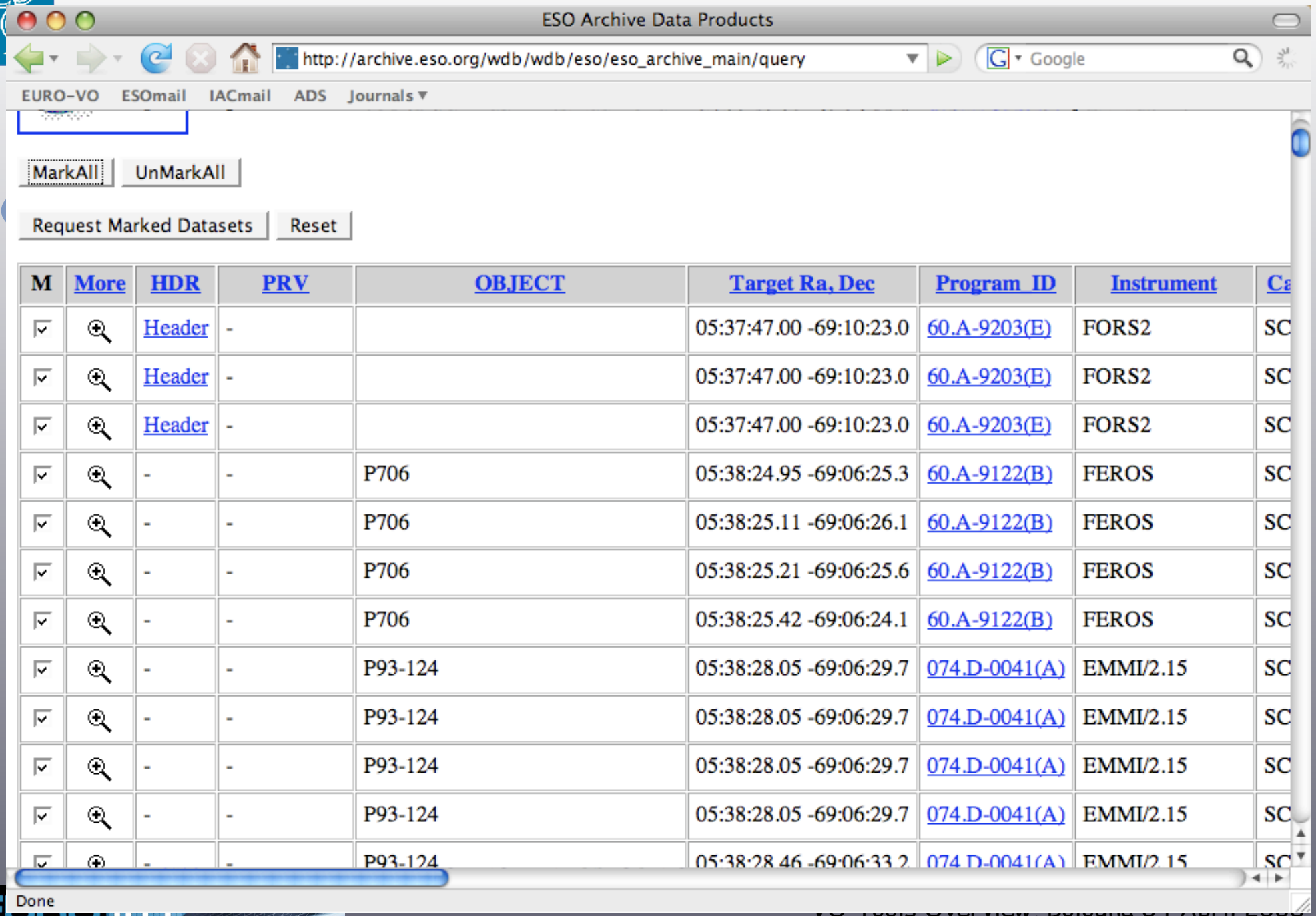
Number of Observations / Instrument:	
CRIRES	47
EFOSC/4.6	5
EMMI/2.15	25
FEROS	12
FORS1	10
FORS2	16
GIRAFFE	138
ISAAC	292
NAOS+CONICA	72
SINFONI	188
UVES	76
WFI	44
Total	**925**

SCIENCE - FORS2 - B_BESS	0	h	1	min	30	s
SCIENCE - FORS2 - I_BESS	0	h	7	min	15	s
SCIENCE - FORS2 - R_SPECIAL	0	h	6	min	0	s
SCIENCE - FORS2 - V_BESS	0	h	0	min	45	s
SCIENCE - GIRAFFE - HR14,A,10	7	h	55	min	44	s
SCIENCE - GIRAFFE - HR15,B,10	2	h	53	min	59	s
SCIENCE - GIRAFFE - LR2,B,7	0	h	32	min	0	s
SCIENCE - ISAAC -	1	h	18	min	10	s
SCIENCE - ISAAC - JS,OPEN	2	h	17	min	40	s
SCIENCE - ISAAC - KS,OPEN	2	h	51	min	0	s
SCIENCE - ISAAC - OPEN,NB_1.21	0	h	9	min	0	s
SCIENCE - ISAAC - OPEN,NB_1.28	0	h	9	min	0	s
SCIENCE - ISAAC - SH,OPEN	0	h	20	min	0	s
SCIENCE - ISAAC - SK,OPEN	1	h	3	min	20	s
SCIENCE - ISAAC - SL,OPEN	0	h	1	min	11	s
SCIENCE - NAOS+CONICA -	4	h	40	min	56	s
SCIENCE - NAOS+CONICA -	1	h	20	min	16	s
SCIENCE - SINFONI - H+K	3	h	30	min	0	s



Number of Observations / Instrument:	
CRIRES	47
EFOSC/4.6	5
EMMI/2.15	25
FEROS	12
FORS1	10
FORS2	16
GIRAFFE	138
ISAAC	292
NAOS+CONICA	72
SINFONI	188
UVES	76
WFI	44
Total	**925**

SCIENCE - FORS2 - B_BESS	0	h	1	min	30	s
SCIENCE - FORS2 - I_BESS	0	h	7	min	15	s
SCIENCE - FORS2 - R_SPECIAL	0	h	6	min	0	s
SCIENCE - FORS2 - V_BESS	0	h	0	min	45	s
SCIENCE - GIRAFFE - HR14,A,10	7	h	55	min	44	s
SCIENCE - GIRAFFE - HR15,B,10	2	h	53	min	59	s
SCIENCE - GIRAFFE - LR2,B,7	0	h	32	min	0	s
SCIENCE - ISAAC -	1	h	18	min	10	s
SCIENCE - ISAAC - JS,OPEN	2	h	17	min	40	s
SCIENCE - ISAAC - KS,OPEN	2	h	51	min	0	s
SCIENCE - ISAAC - OPEN,NB_1.21	0	h	9	min	0	s
SCIENCE - ISAAC - OPEN,NB_1.28	0	h	9	min	0	s
SCIENCE - ISAAC - SH,OPEN	0	h	20	min	0	s
SCIENCE - ISAAC - SK,OPEN	1	h	3	min	20	s
SCIENCE - ISAAC - SL,OPEN	0	h	1	min	11	s
SCIENCE - NAOS+CONICA -	4	h	40	min	56	s
SCIENCE - NAOS+CONICA -	1	h	20	min	16	s
SCIENCE - SINFONI - H+K	3	h	30	min	0	s


ESO Archive Data Products
http://archive.eso.org/wdb/wdb/eso/eso_archive_main/query
Google
EURO-VO
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IACmail
ADS
Journals
MarkAll
UnMarkAll
Request Marked Datasets
Reset
M
More
HDR
PRV
OBJECT
Target Ra, Dec
Program_ID
Instrument
Header
-
P706
05:37:47.00 -69:10:23.0
05:38:24.95 -69:06:25.3
05:38:25.11 -69:06:26.1
05:38:25.21 -69:06:25.6
05:38:25.42 -69:06:24.1
05:38:28.05 -69:06:29.7
05:38:28.46 -69:06:33.2
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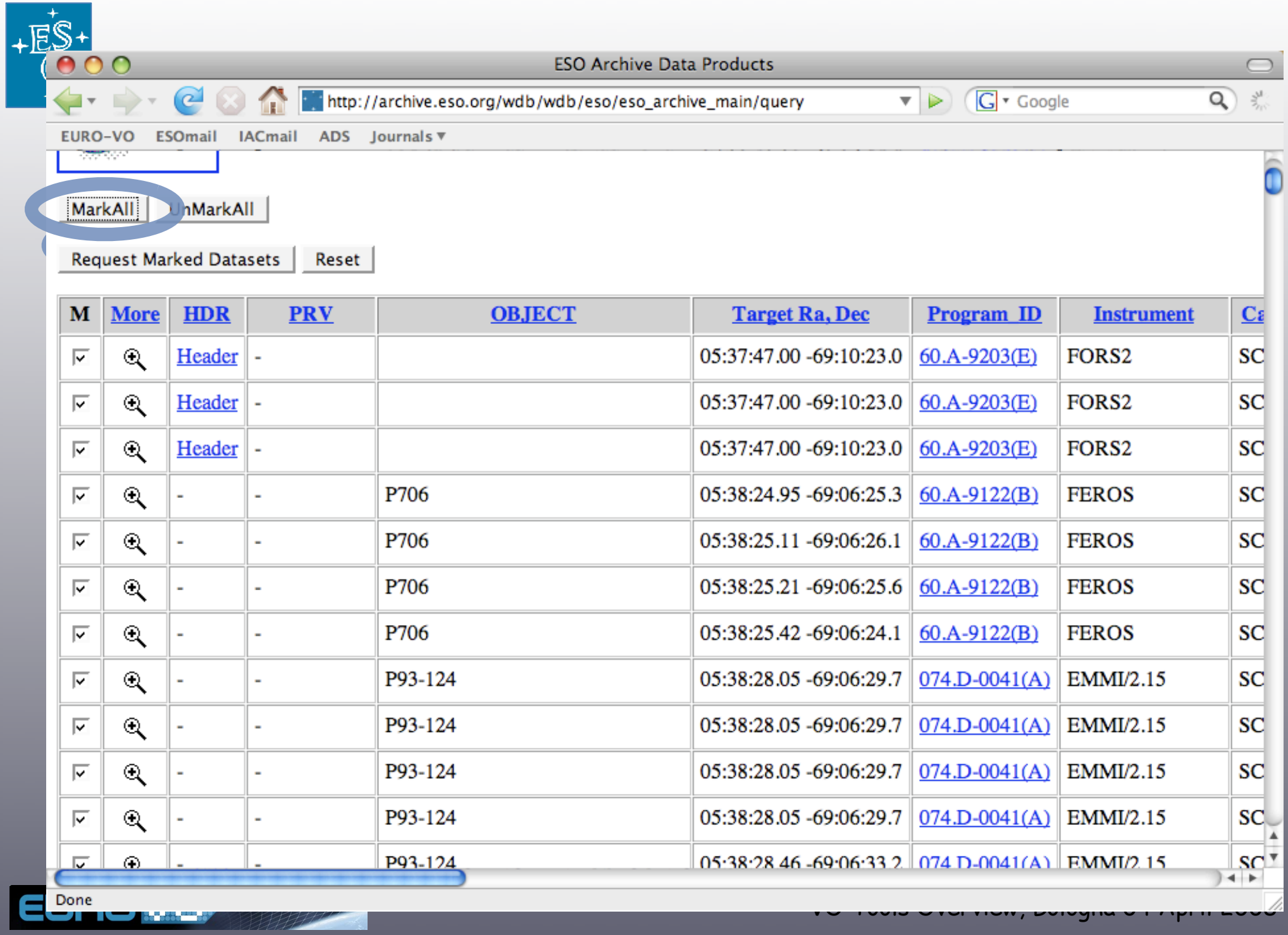
60.A-9122(B)
074.D-0041(A)
FORS2
FEROS
EMMI/2.15
Done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Google
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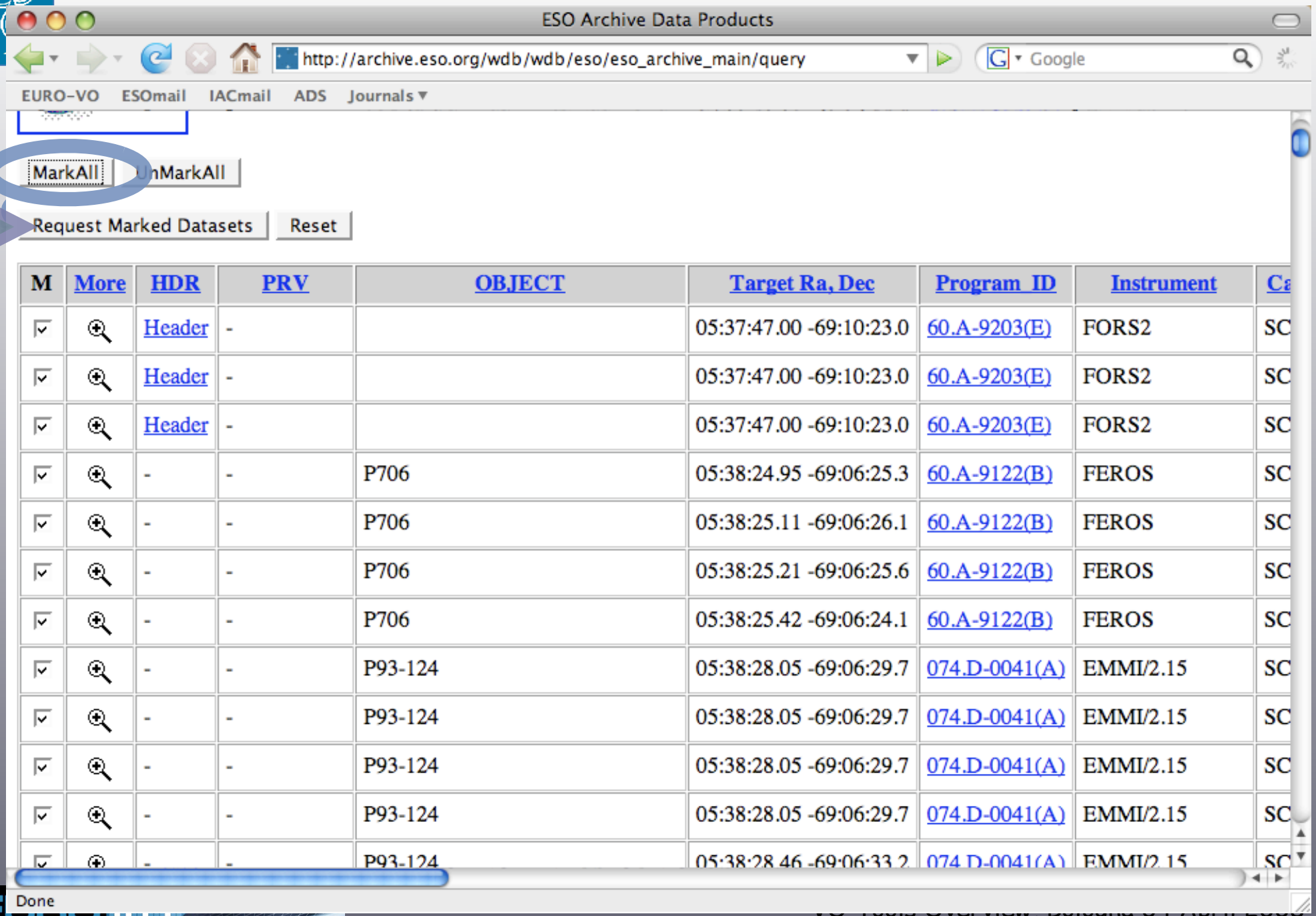
UnMarkAll
Request Marked Datasets
Reset
M
More
HDR
PRV
OBJECT
Target Ra, Dec
Program_ID
Instrument
Header
-
P706
05:37:47.00 -69:10:23.0
05:38:24.95 -69:06:25.3
05:38:25.11 -69:06:26.1
05:38:25.21 -69:06:25.6
05:38:25.42 -69:06:24.1
05:38:28.05 -69:06:29.7
05:38:28.46 -69:06:33.2
60.A-9203(E)
60.A-9122(B)
074.D-0041(A)
FORS2
FEROS
EMMI/2.15
Done


ESO Archive Data Products
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P706
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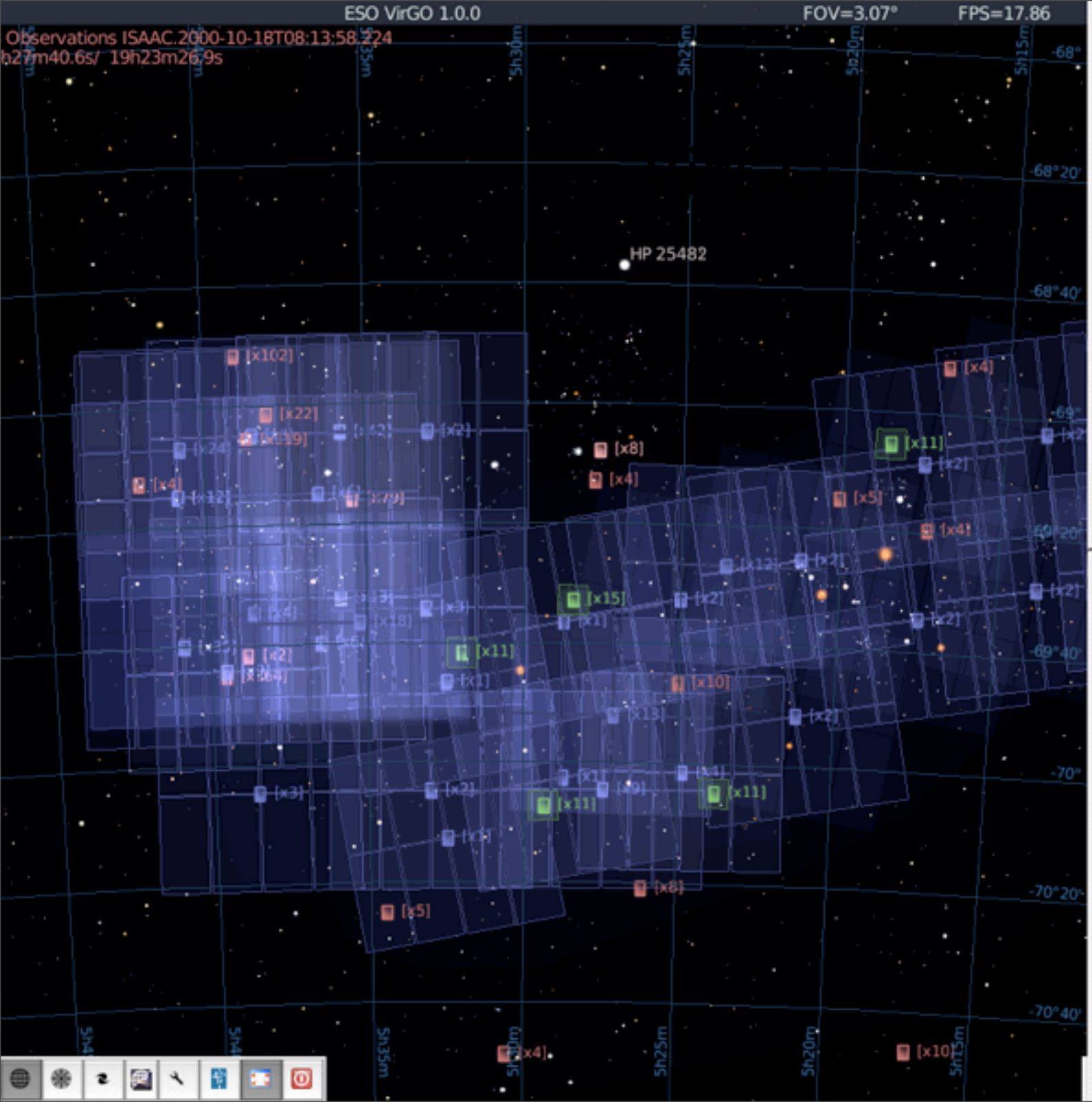
05:38:25.11 -69:06:26.1
05:38:25.21 -69:06:25.6
05:38:25.42 -69:06:24.1
05:38:28.05 -69:06:29.7
05:38:28.46 -69:06:33.2
60.A-9203(E)
60.A-9122(B)
074.D-0041(A)
FORS2
FEROS
EMMI/2.15
Done

VirGO



List Browser

View: All Selected

Select: All, None Selected: Show Preview, H

Date	revie	ExpTime	Instrument
2001-02-28		10	ISAAC
2006-10-31		20	ISAAC
2001-02-28		10	ISAAC
2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
2000-10-17		0.104	ISAAC
2006-10-31		60	ISAAC

Image: ISAAC.2000-10-18T08:13:58.224

Image: ISAAC.2000-10-18T08:13:58.224

Instrument: **ISAAC**

Date: **2000-10-17**

Pos (FK5, 2000.0): **5h27m40.6s / -69d8'15**

Band: **L**

Data set [image/fits: 1024x1024]

Transmission Curve [VOTable]

View Selector

Type: All

Processing: All

Date: 1995-01-1 2007-08-1

Exp Time: 0.000 1.000

Custom:

- VLT
  - ISAAC
- 2.2m
  - WFI
- NTT
  - SOFI

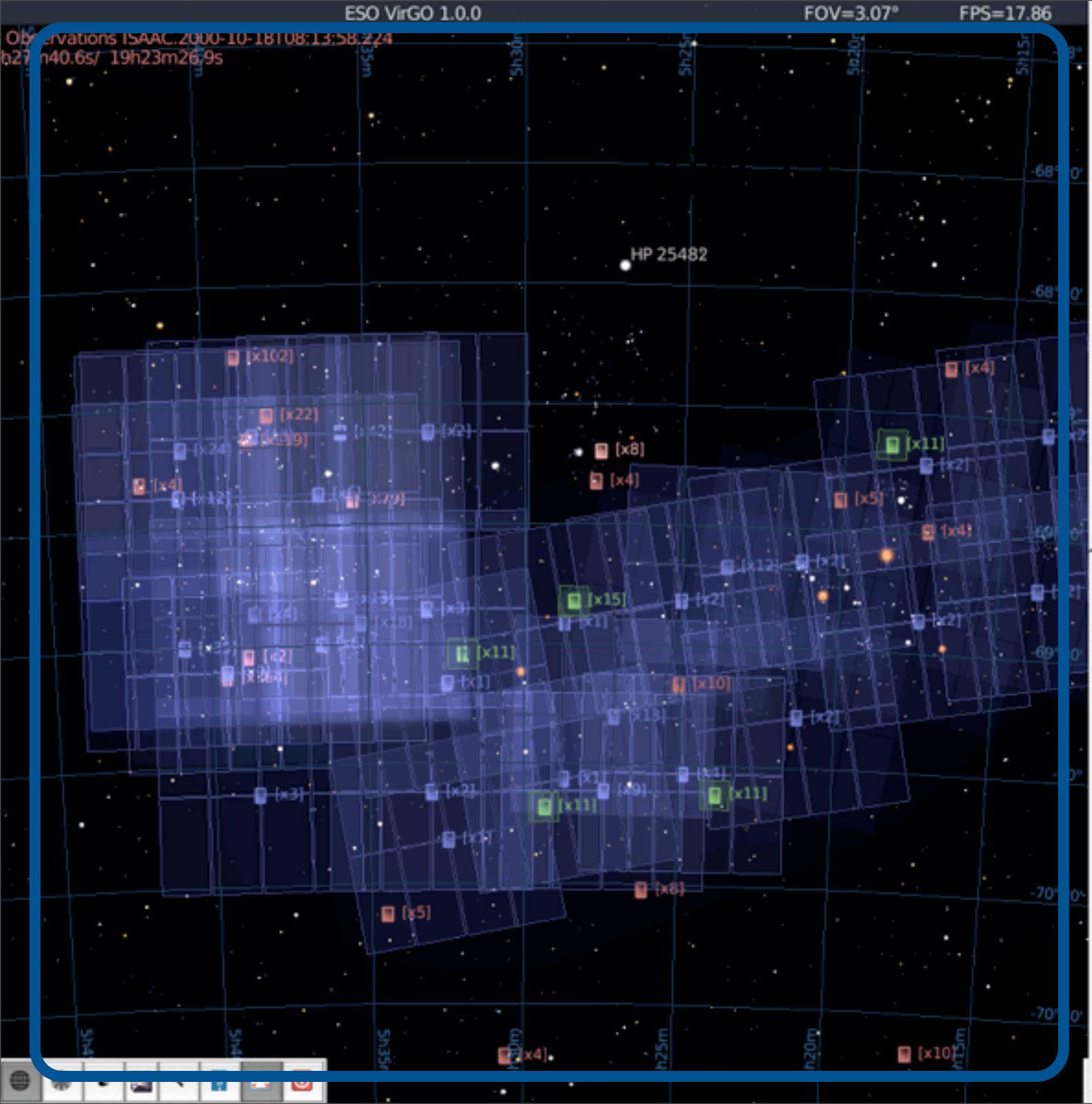
Target Selection

Simbad: 30Dor Found!

RA: 5h 38m 40.12s

Dec: -69° 6' 37.40"

Sho… ESO Scienc… Vis… Fil…



List Browser

View: All Selected

Select: All, None Selected: Show Preview, H

Date	revie	ExpTime	Instrument
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2006-10-31		20	ISAAC
2001-02-28		10	ISAAC
2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
2000-10-17		0.104	ISAAC
2006-10-31		60	ISAAC

Image: ISAAC.2000-10-18T08:13:58.224

Image: ISAAC.2000-10-18T08:13:58.224

Instrument: **ISAAC**

Date: **2000-10-17**

Pos (FK5, 2000.0): **5h27m40.6s / -69d8'15**

Band: **L**

Data set [image/fits: 1024x1024]

Transmission Curve [VOTable]

View Selector

Type: All

Processing: All

Date: 1995-01-1 2007-08-1

Exp Time: 0.000 1.000

Custom:

- VLT
  - ISAAC
- 2.2m
  - WFI
- NTT
  - SOFI

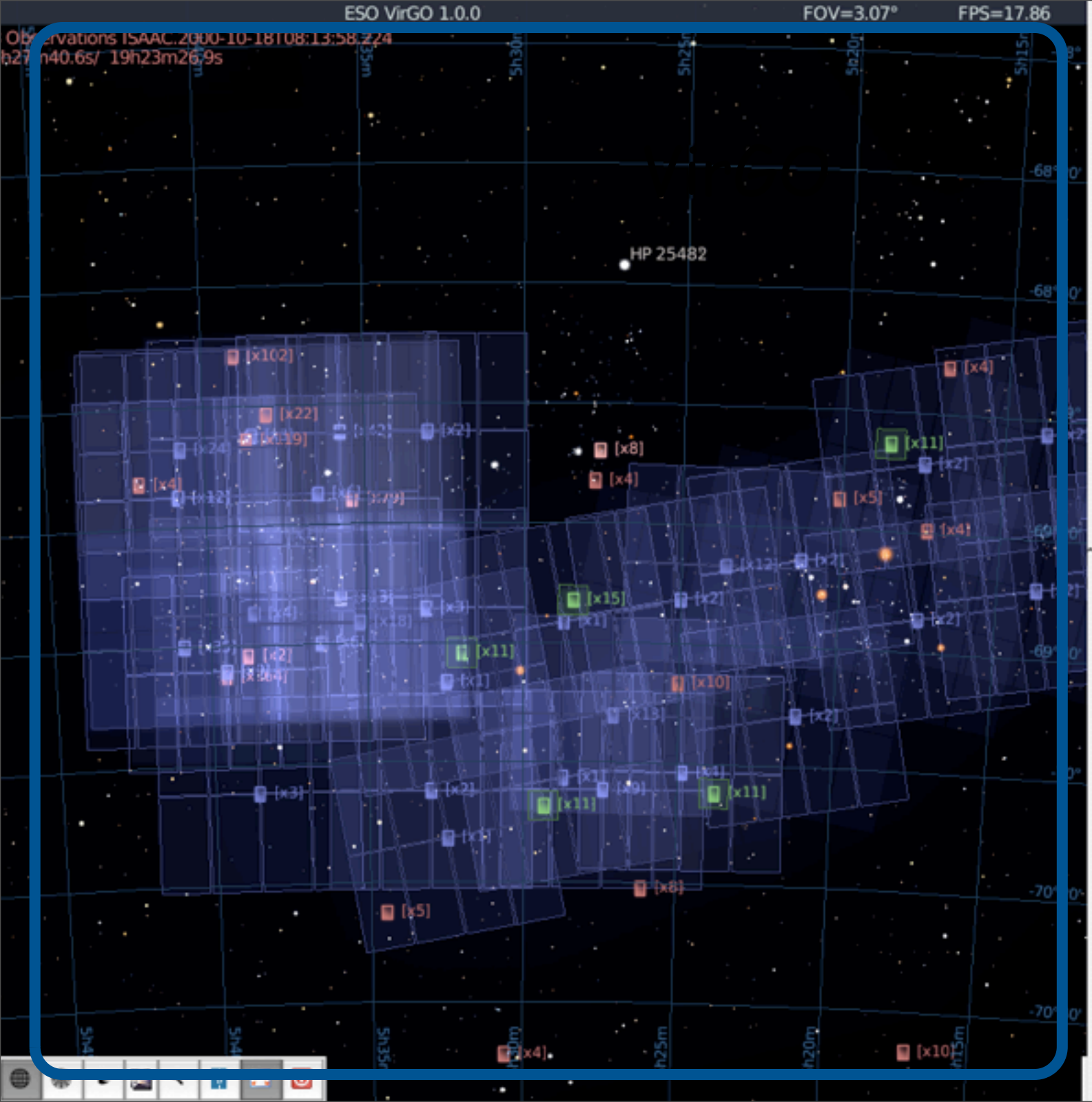
Target Selection

Simbad: 30Dor Found!

RA: 5h 38m 40.12s

Dec: -69° 6' 37.40"

Sho… ESO Scienc… Vis… Fil…



List Browser

Select: All, None Selected: Show Preview,

Date	revies	ExpTime	Instrument
2001-02-28		10	ISAAC
2006-10-31		20	ISAAC
2001-02-28		10	ISAAC
2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
2000-10-17		0.104	ISAAC
2006-10-31		60	ISAAC

Image: ISAAC.2000-10-18T08:13:58.22

Image: ISAAC.2000-10-18T08:13:58.224

Instrument: **ISAAC**

Date: **2000-10-17**

Pos (FK5, 2000.0): **5h27m40.6s / -69d8'1**

Band: **L**

Data set [image/fits: 1024x1024]

Transmission Curve [VOTable]

View Selector

Type: All

Processing: All

Date: 1995-01-1 2007-08-

Exp Time: 0.000 1.000

Custom:

VLT
ISAAC
2.2m
WFI
NTT
SOFI

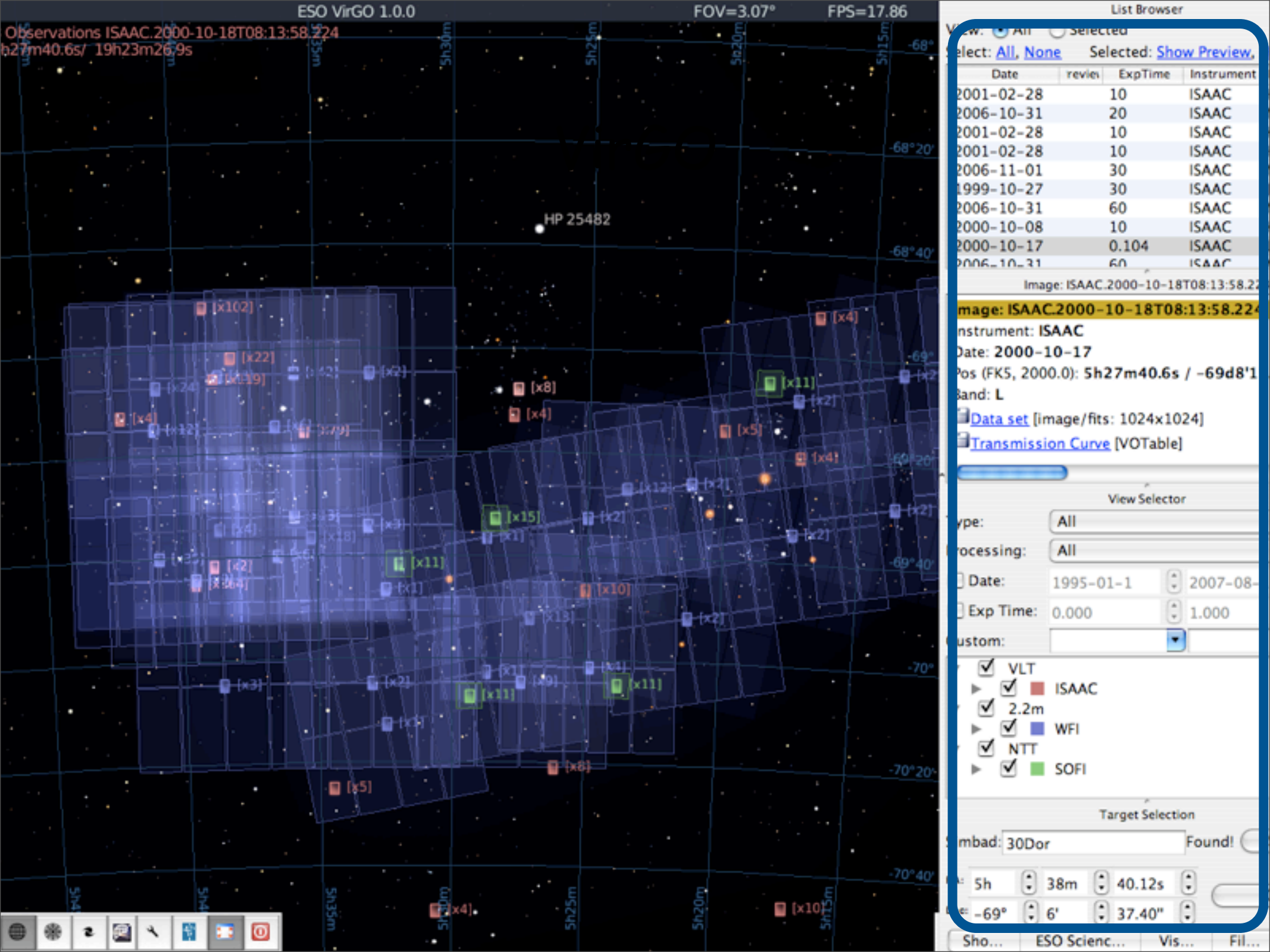
Target Selection

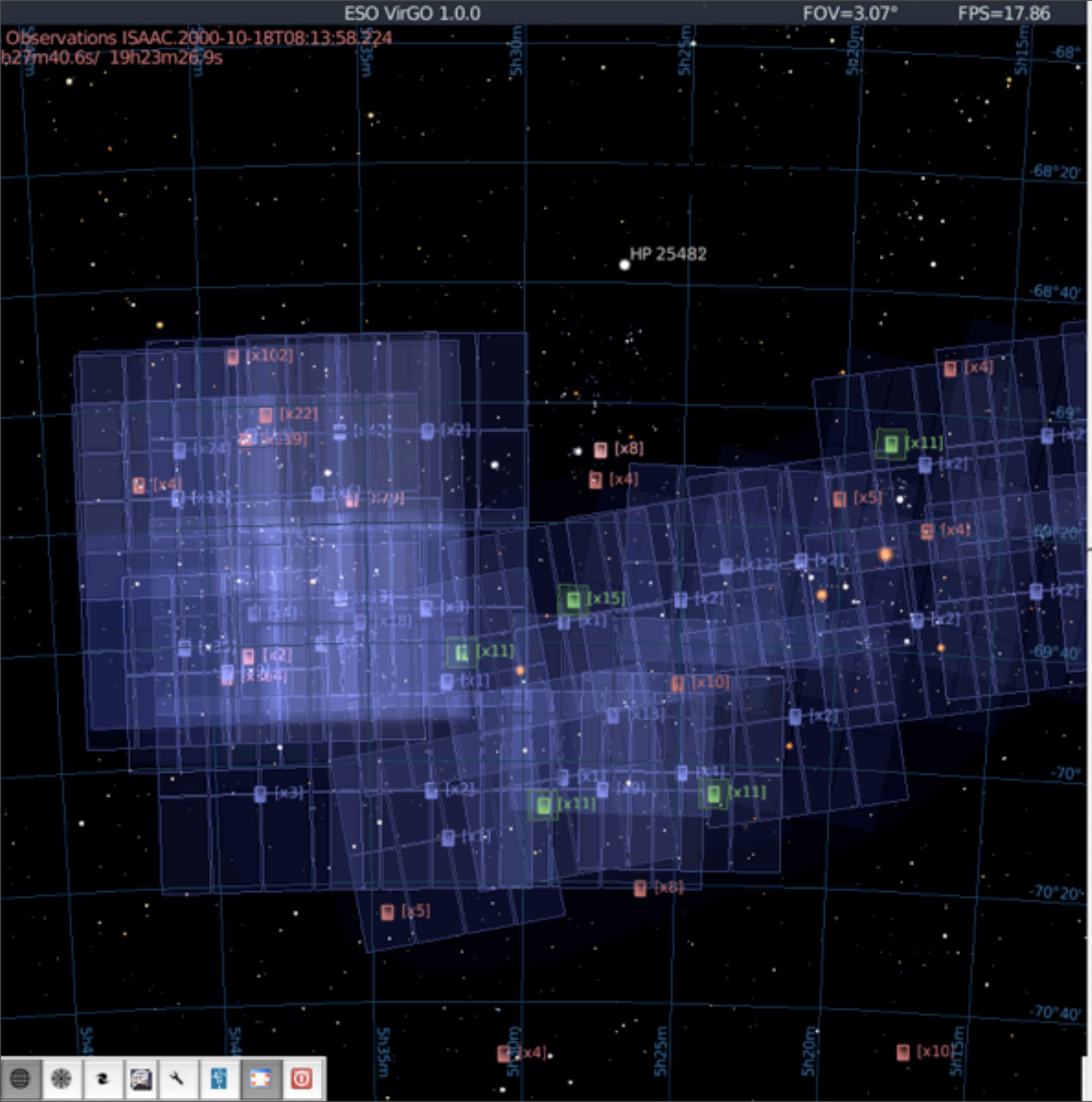
Simbad: 30Dor Found!

5h 38m 40.12s

-69° 6' 37.40"

Sho… ESO Scienc… Vis… Fil…


ESO VirGO 1.0.0
FOV=3.07°
FPS=17.86
Observations ISAAC.2000-10-18T08:13:58.224
h27m40.6s/ 19h23m26.9s
HP 25482
List Browser
Select: All, None
Selected: Show Preview,
Date
ExpTime
Instrument
2001-02-28 10 ISAAC
2006-10-31 20 ISAAC
2001-02-28 10 ISAAC
2001-02-28 10 ISAAC
2006-11-01 30 ISAAC
1999-10-27 30 ISAAC
2006-10-31 60 ISAAC
2000-10-08 10 ISAAC
2000-10-17 0.104 ISAAC
Image: ISAAC.2000-10-18T08:13:58.224
Instrument: ISAAC
Date: 2000-10-17
Pos (FK5, 2000.0): 5h27m40.6s / -69d8'1
Band: L
Data set [image/fits: 1024x1024]
Transmission Curve [VOTable]
View Selector
Type: All
Processing: All
Date: 1995-01-1 2007-08-
Exp Time: 0.000 1.000
Custom:
VLT
ISAAC
2.2m
WFI
NTT
SOFI
Target Selection
Simbad: 30Dor
Found!
5h 38m 40.12s
-69° 6' 37.40"
Sho...
ESO Scienc...
Vis...
Fil...



List Browser

View: All Selected

Select: All, None Selected: Show Preview, H

Date	revie	ExpTime	Instrument
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2006-10-31		20	ISAAC
2001-02-28		10	ISAAC
2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
2000-10-17		0.104	ISAAC
2006-10-31		60	ISAAC

Image: ISAAC.2000-10-18T08:13:58.224

Image: ISAAC.2000-10-18T08:13:58.224

Instrument: **ISAAC**

Date: **2000-10-17**

Pos (FK5, 2000.0): **5h27m40.6s / -69d8'15**

Band: **L**

Data set [image/fits: 1024x1024]

Transmission Curve [VOTable]

View Selector

Type: All

Processing: All

Date: 1995-01-1 2007-08-1

Exp Time: 0.000 1.000

Custom:

- VLT
  - ISAAC
- 2.2m
  - WFI
- NTT
  - SOFI

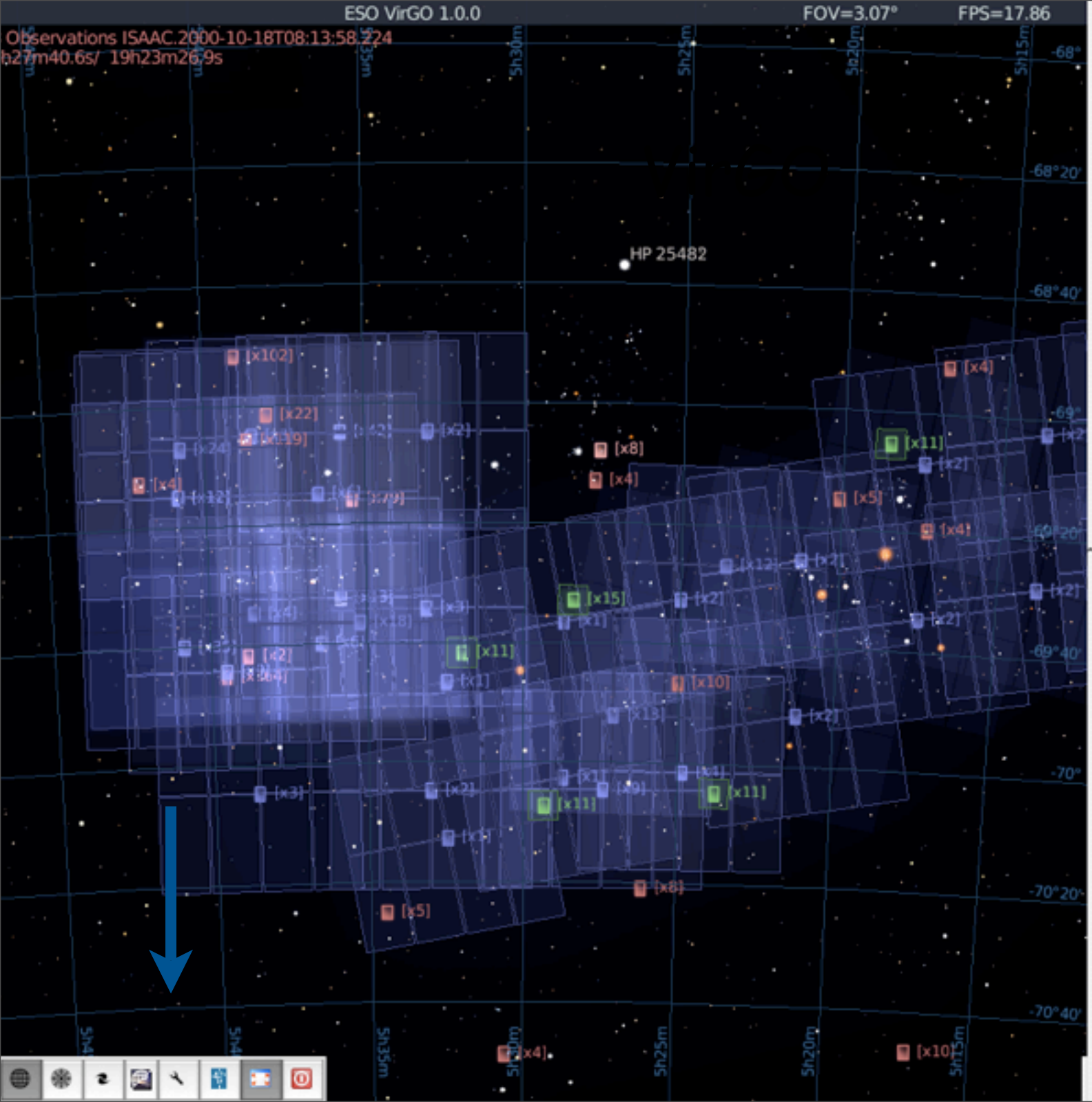
Target Selection

Simbad: 30Dor Found!

RA: 5h 38m 40.12s

Dec: -69° 6' 37.40"

Sho… ESO Scienc… Vis… Fil…



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2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
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2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
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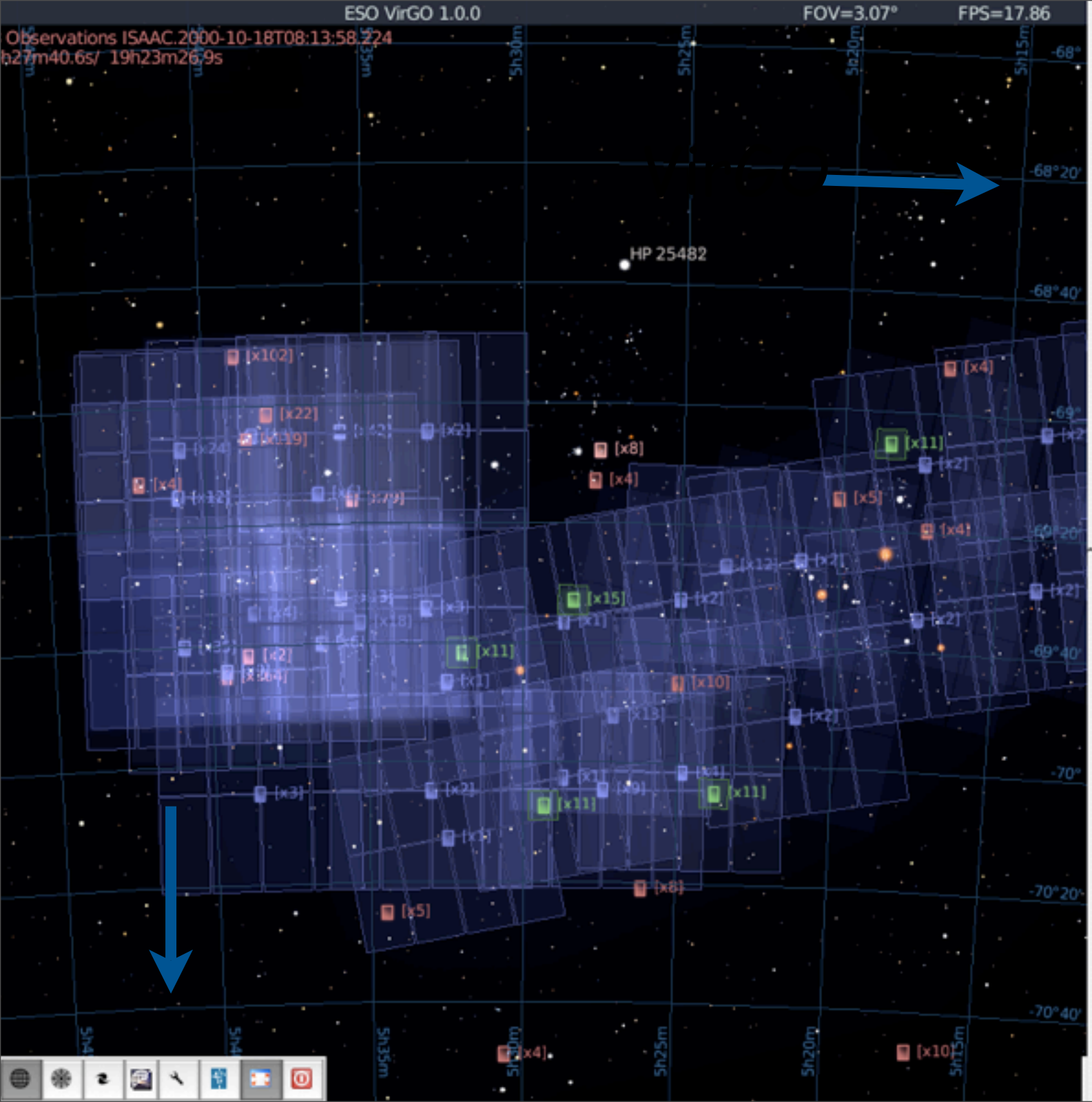

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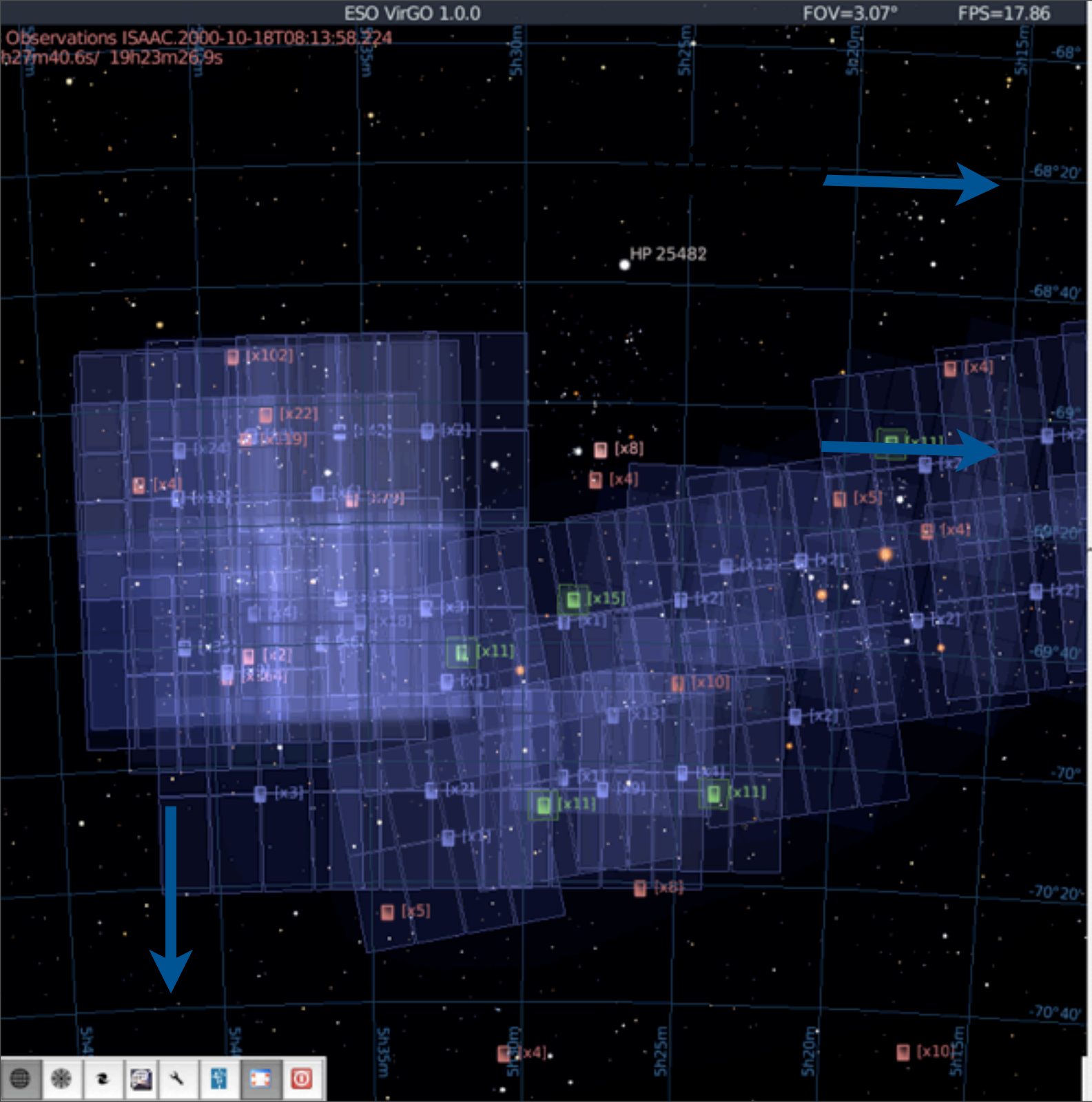

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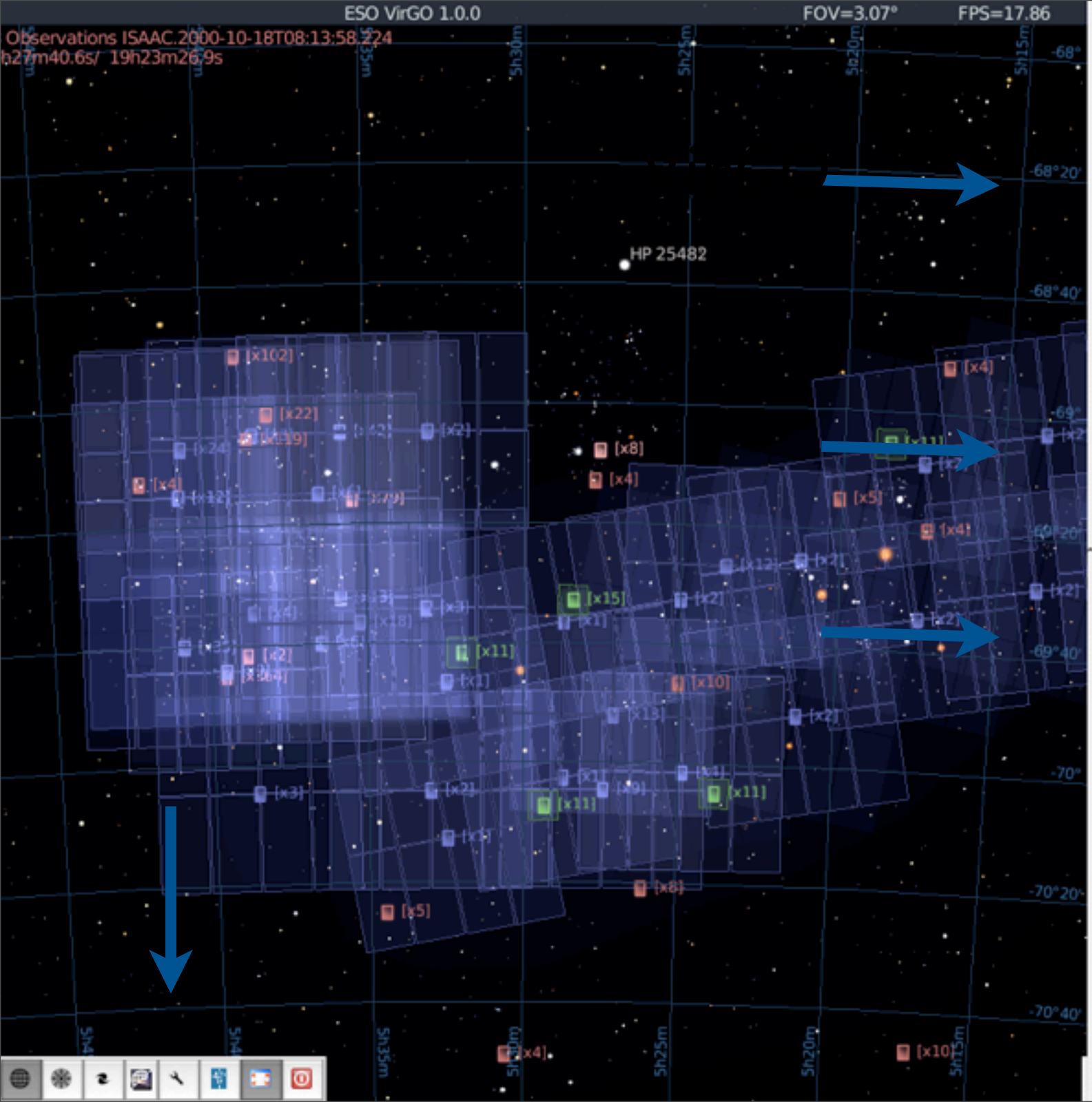

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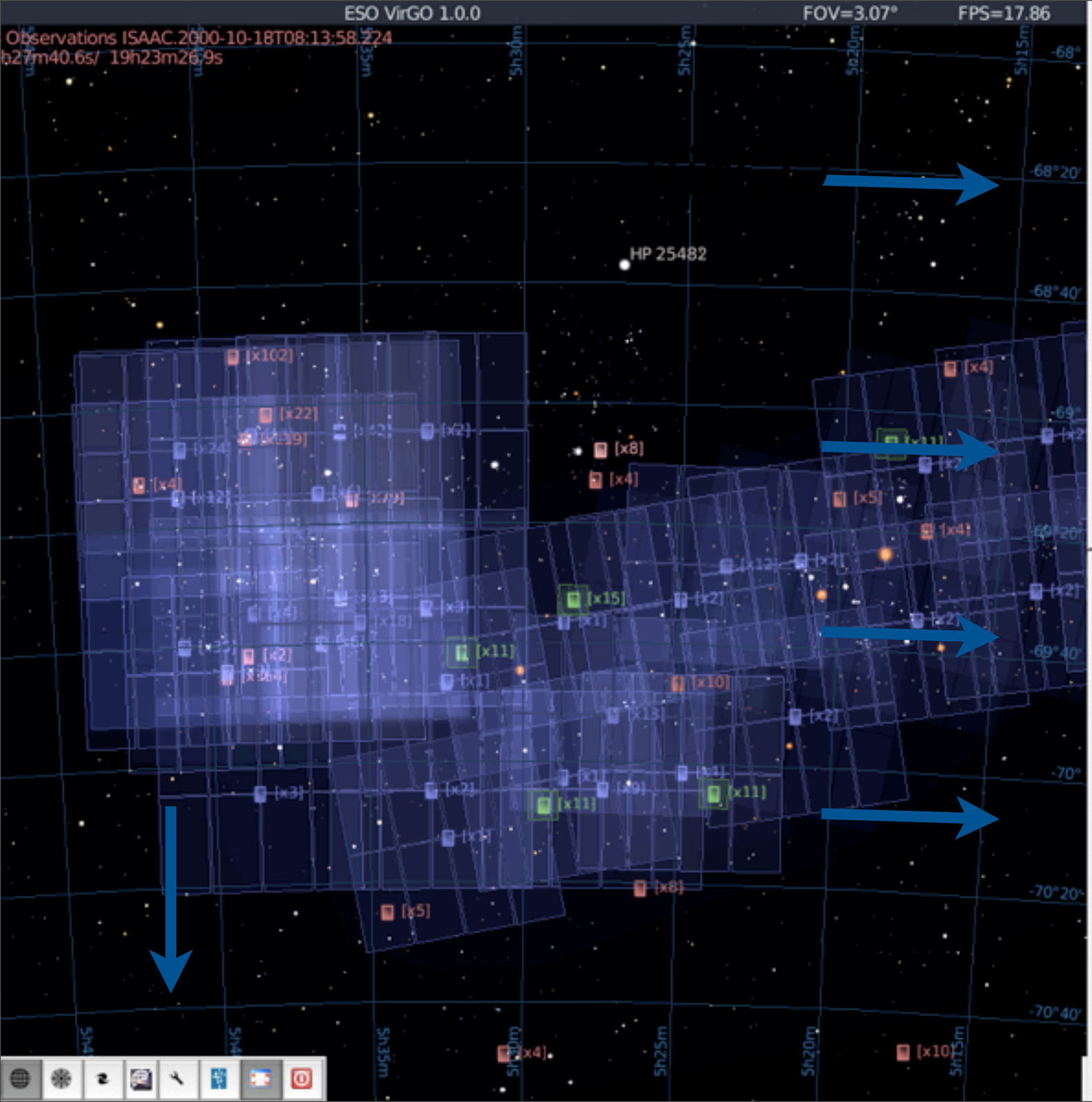

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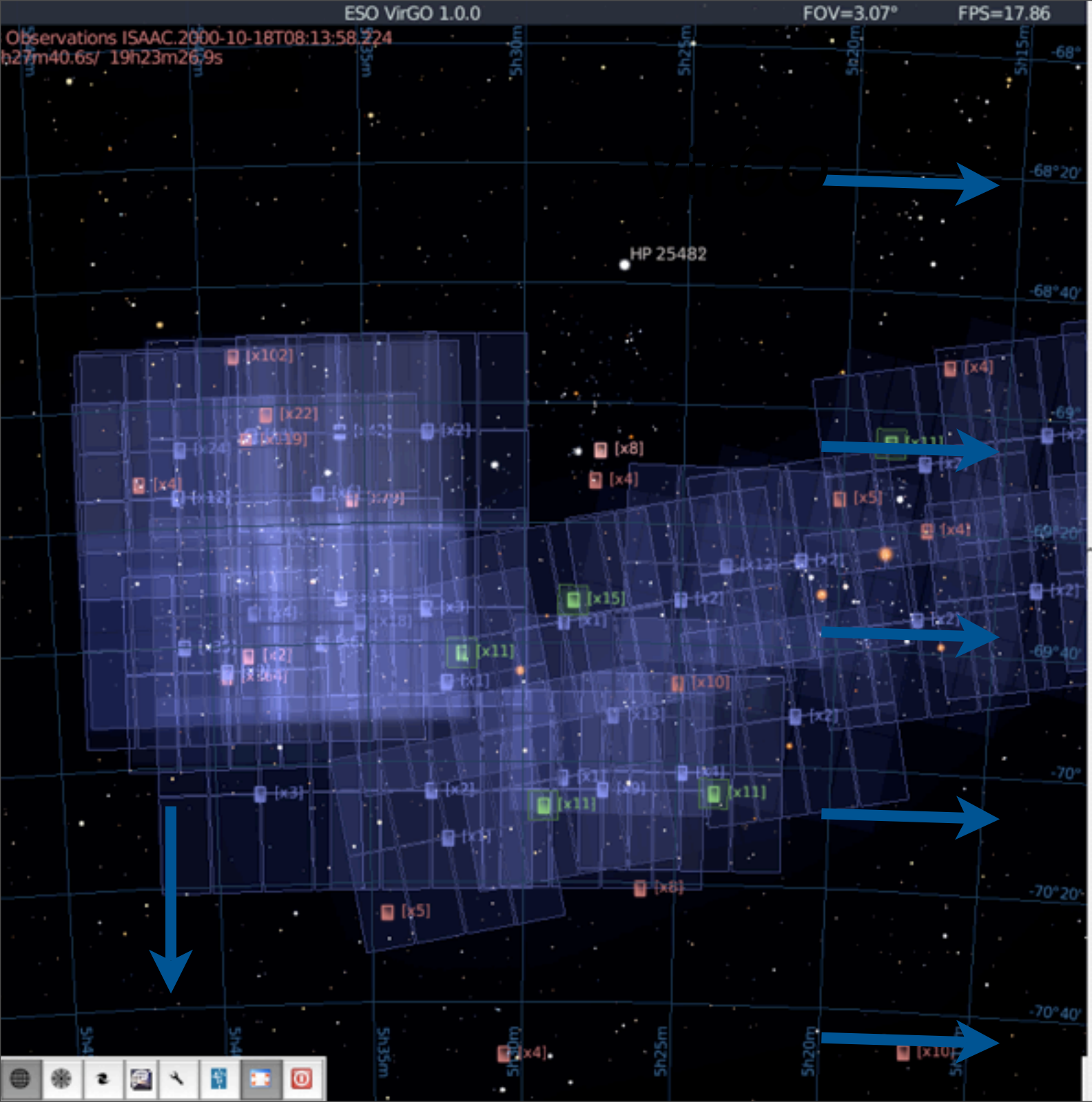

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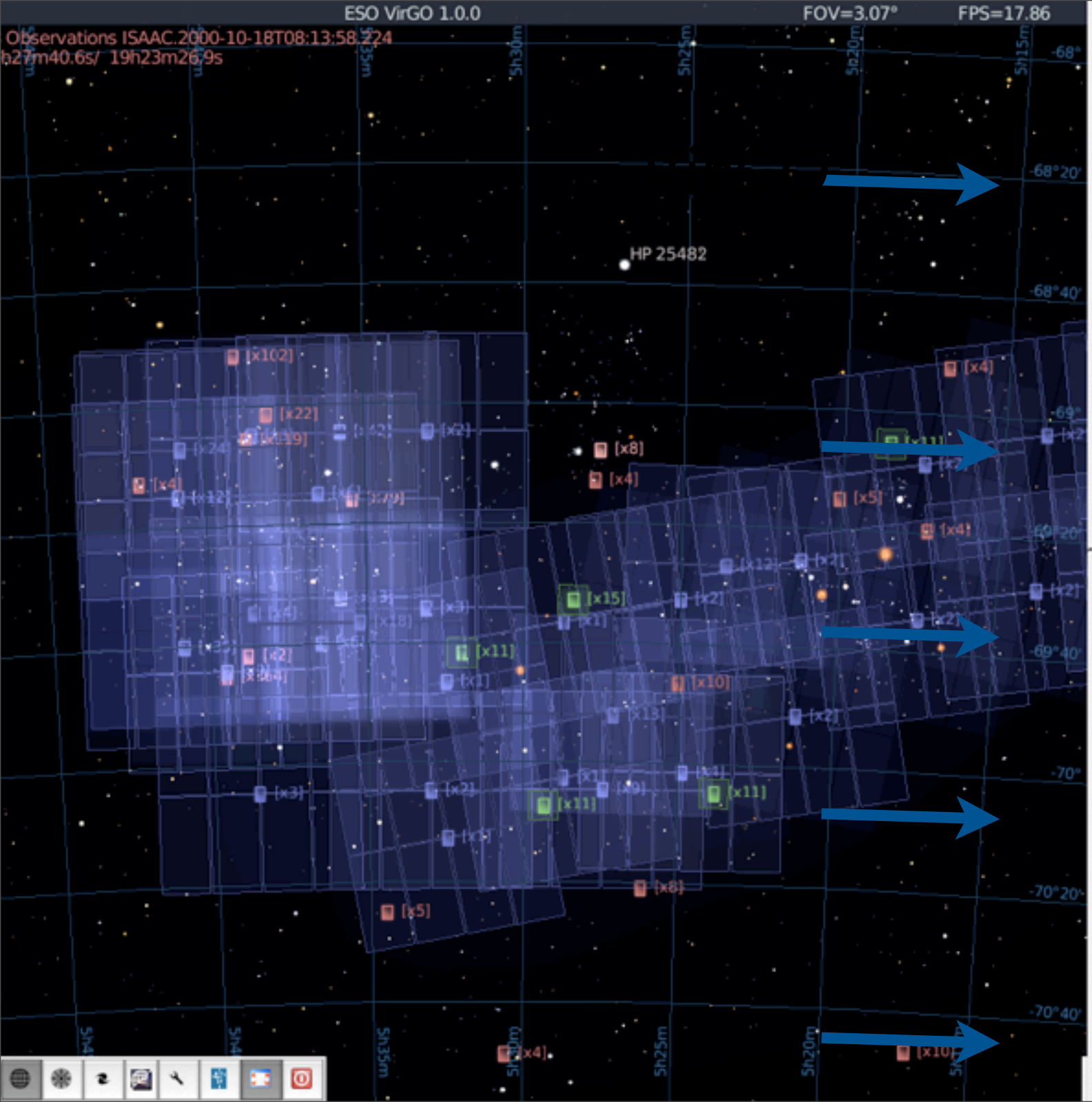

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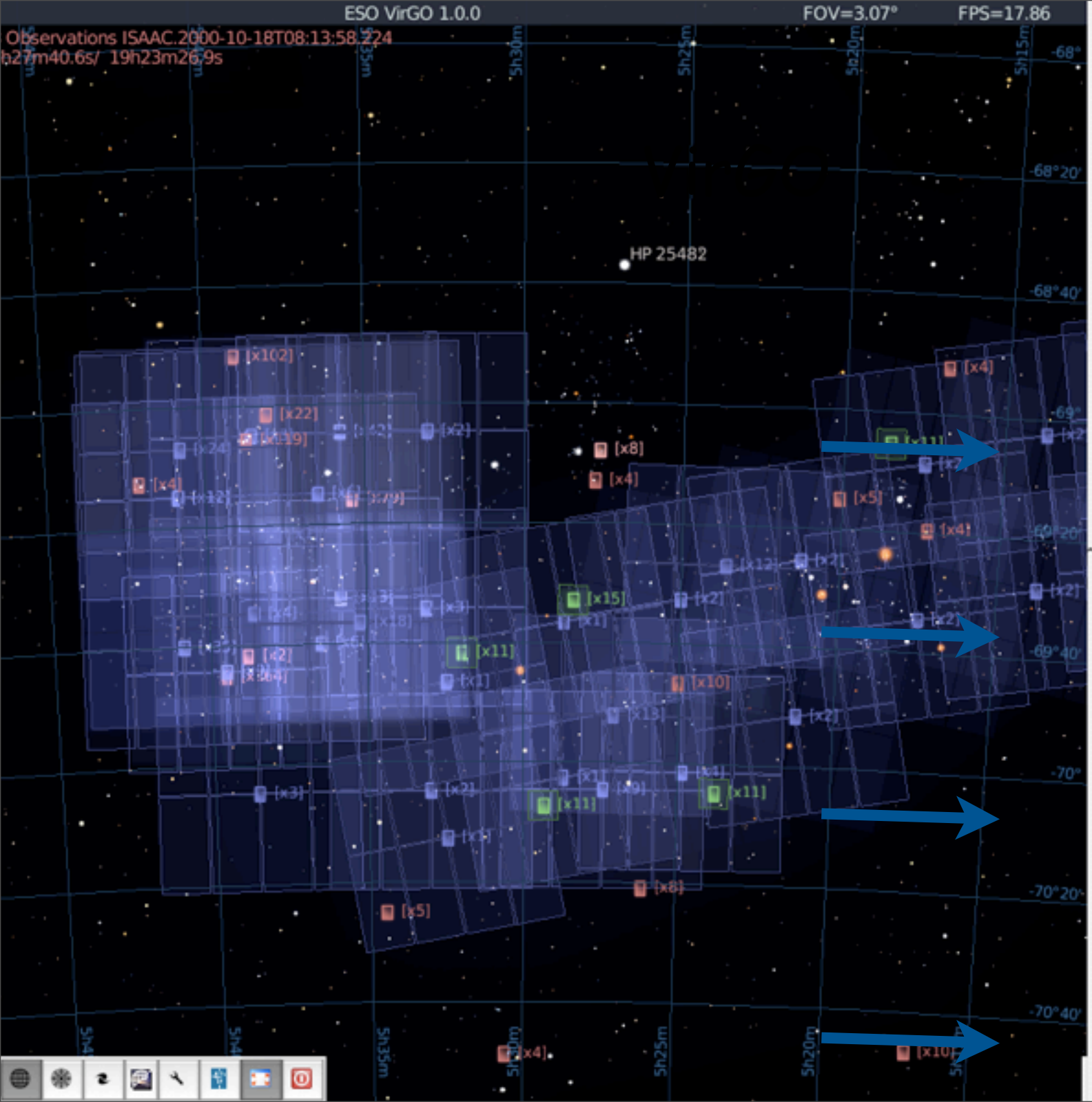

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2001-02-28		10	ISAAC
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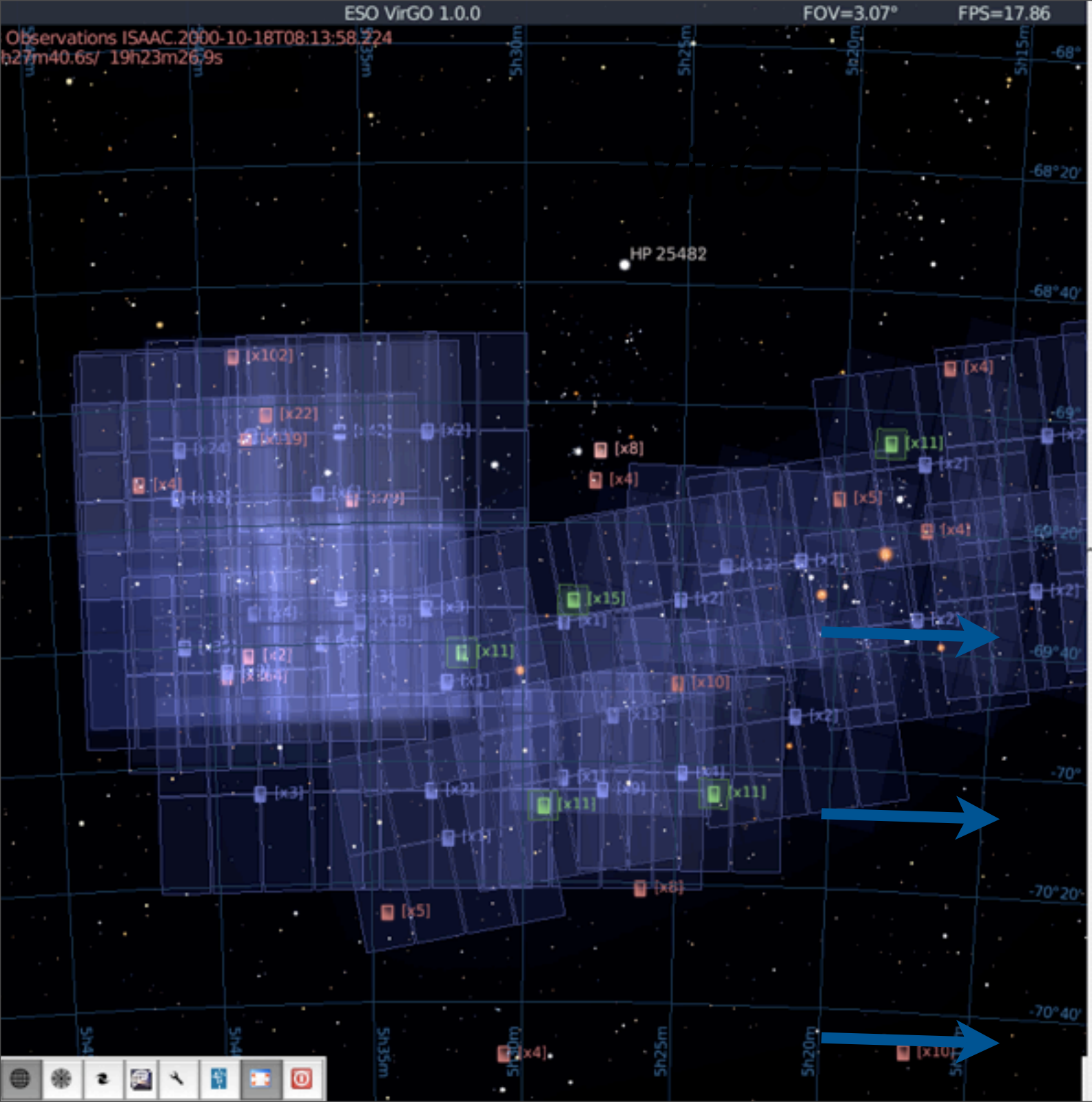

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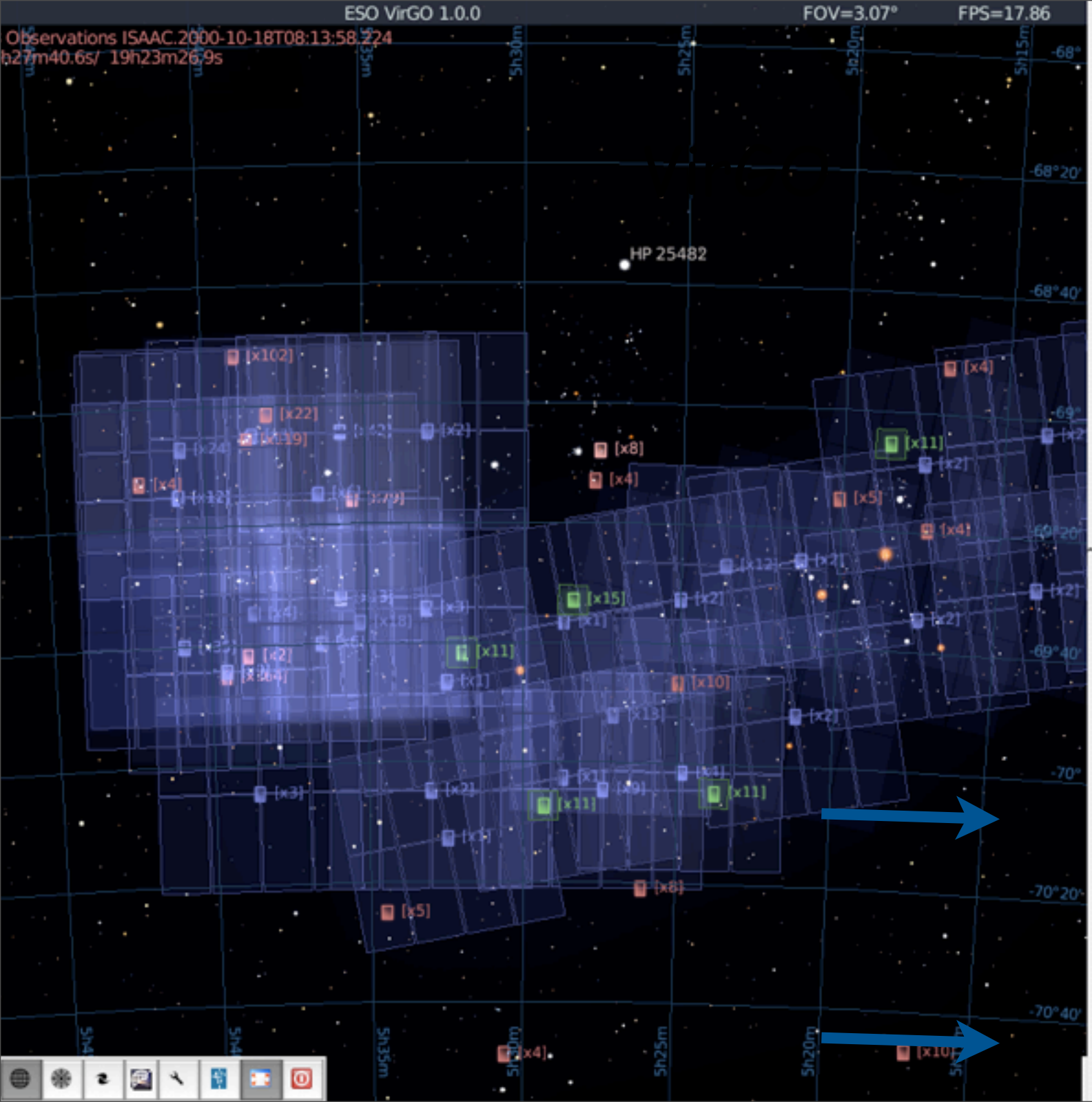

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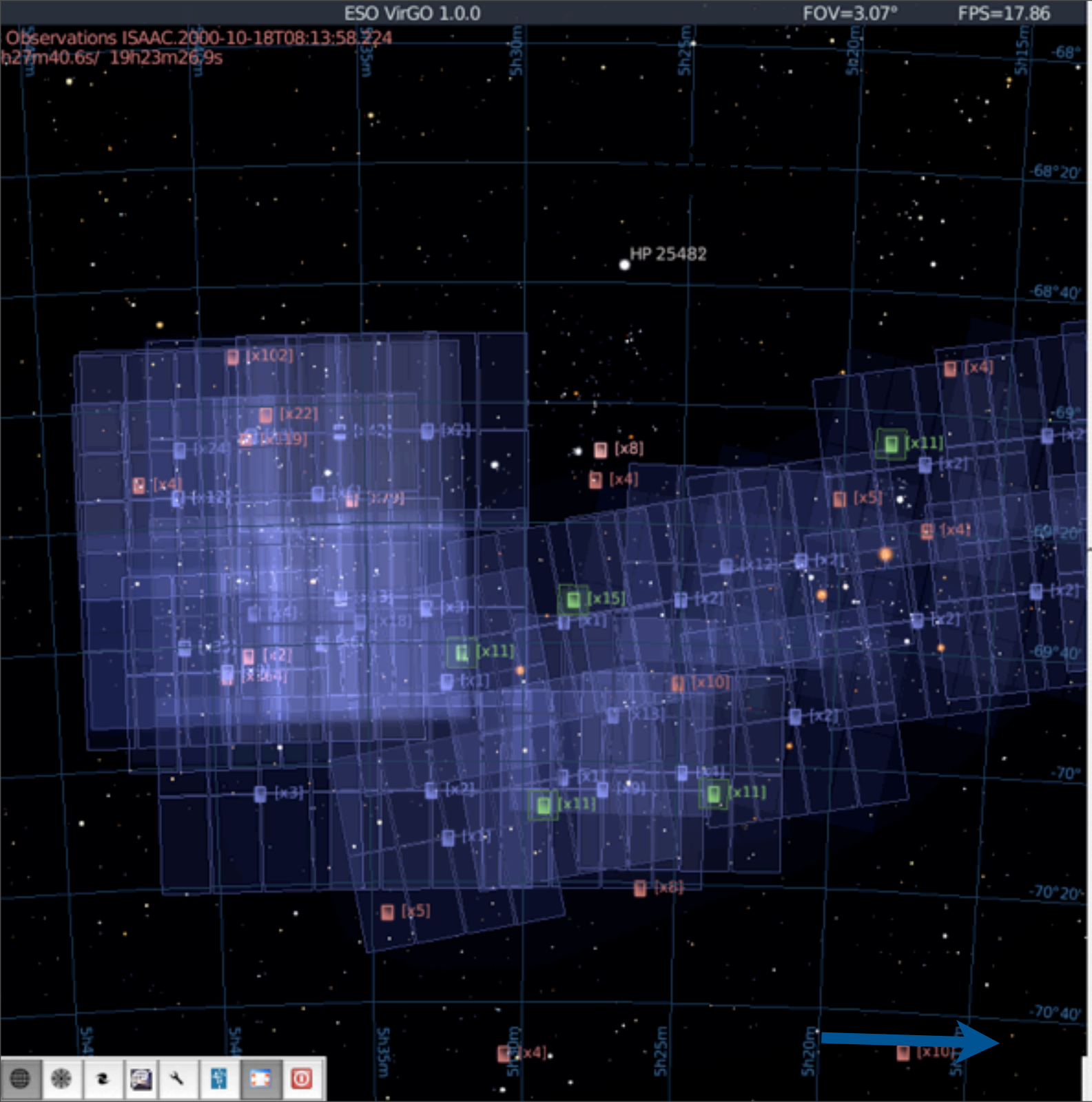

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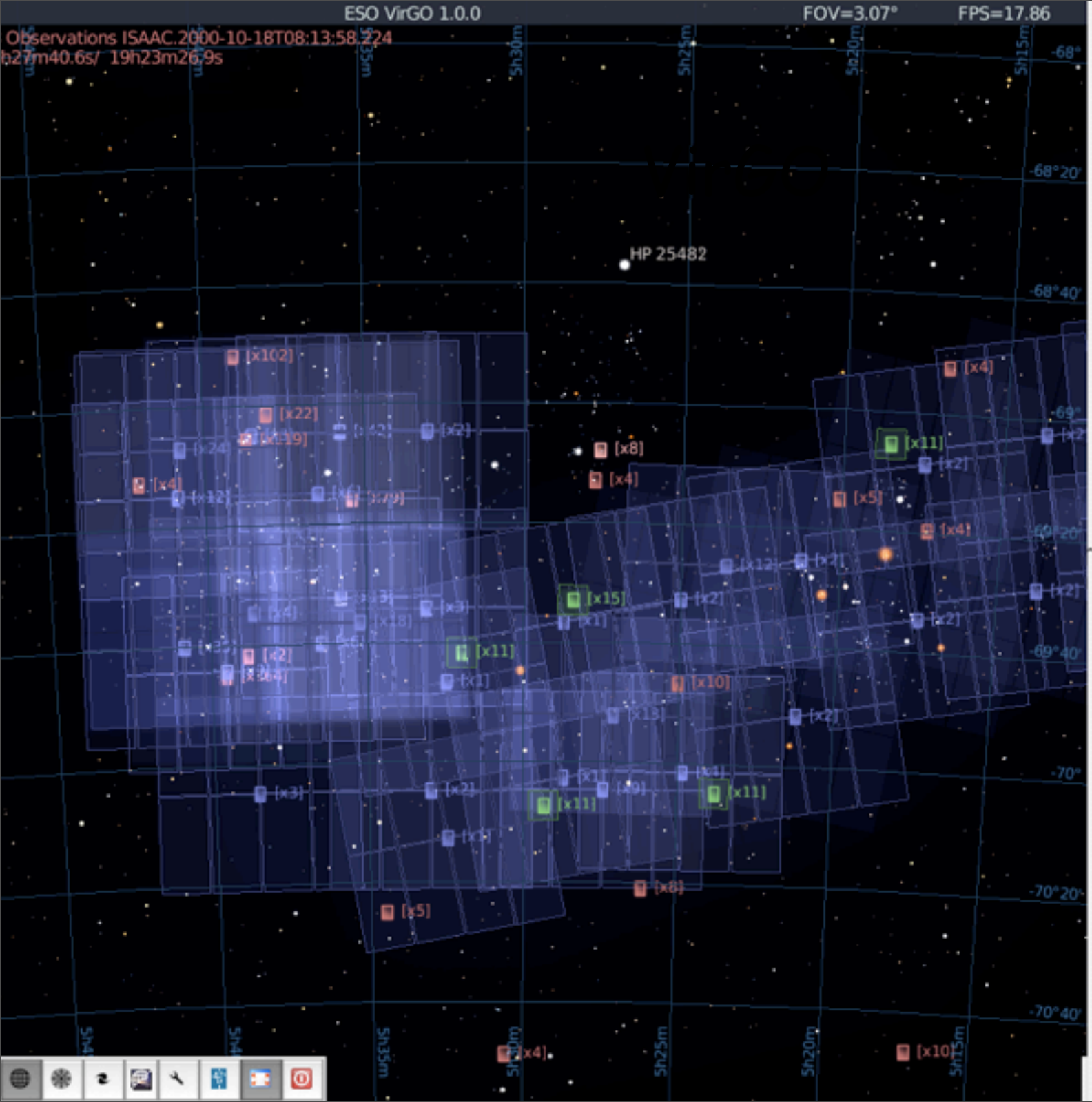

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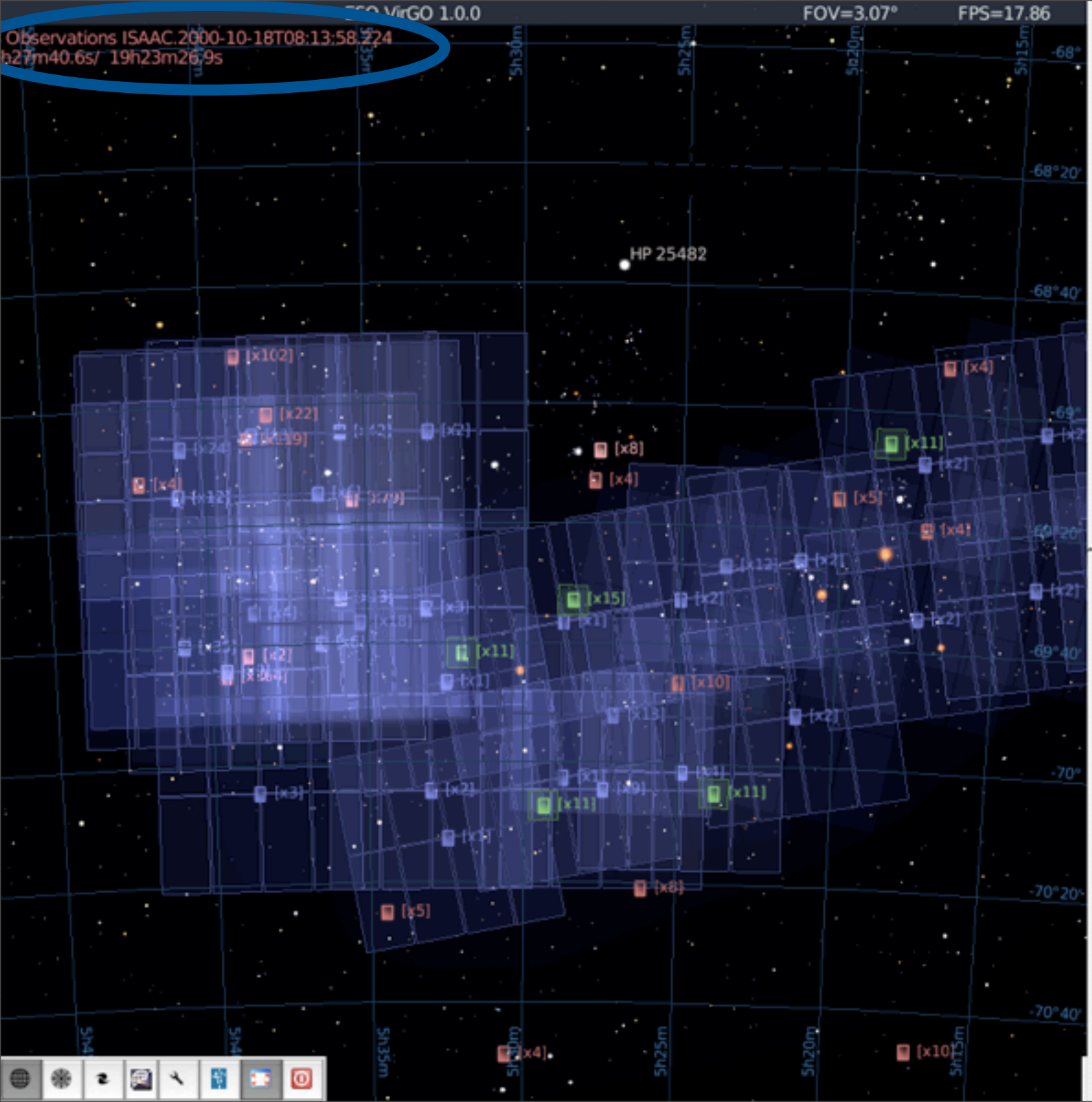

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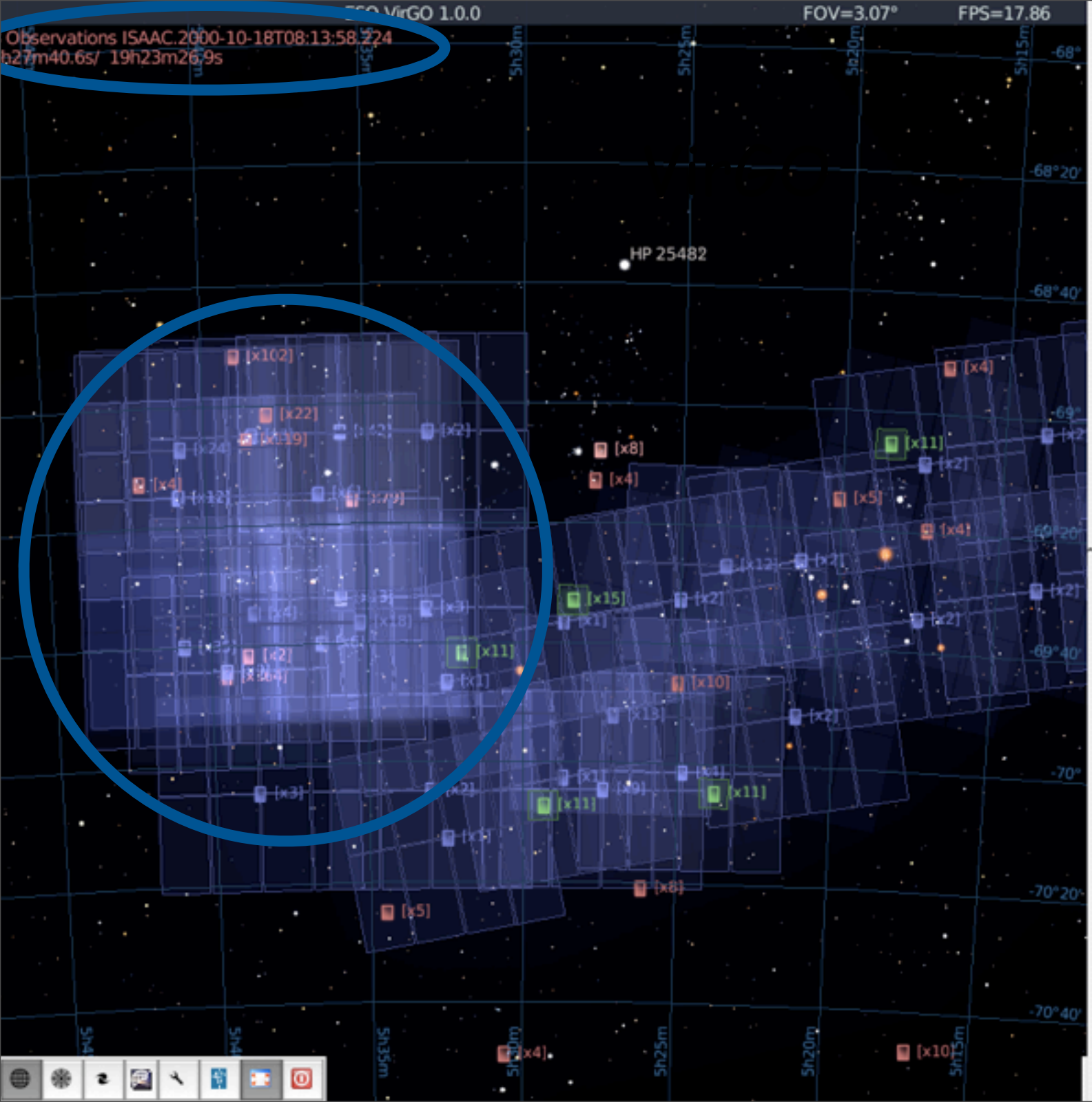

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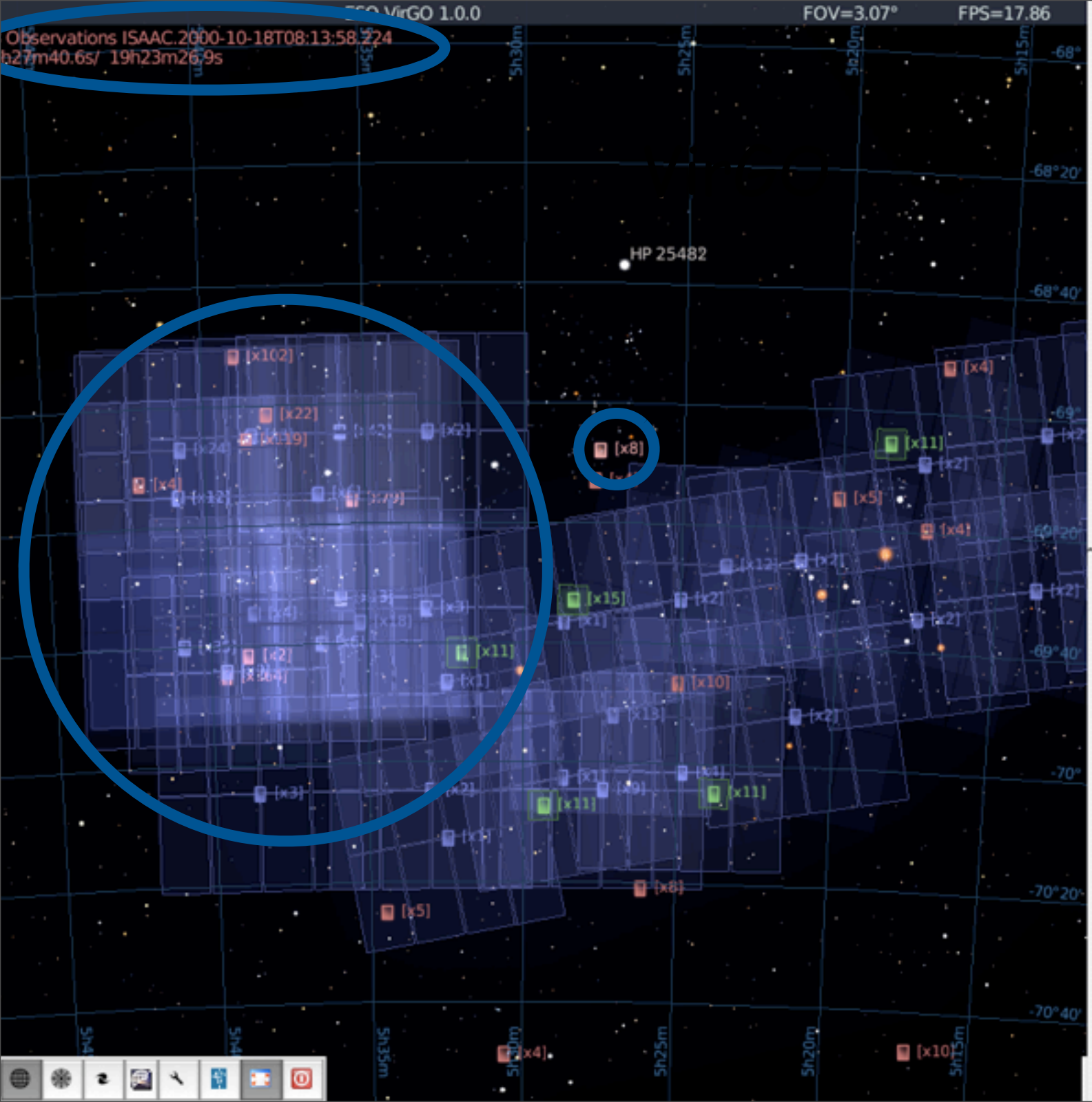

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2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
2000-10-17		0.104	ISAAC
2006-10-31		60	ISAAC

Image: ISAAC.2000-10-18T08:13:58.224

Image: ISAAC.2000-10-18T08:13:58.224

Instrument: **ISAAC**

Date: **2000-10-17**

Pos (FK5, 2000.0): **5h27m40.6s / -69d8'15**

Band: **L**

Data set [image/fits: 1024x1024]

Transmission Curve [VOTable]

View Selector

Type: All

Processing: All

Date: 1995-01-1 2007-08-1

Exp Time: 0.000 1.000

Custom:

- VLT
  - ISAAC
- 2.2m
  - WFI
- NTT
  - SOFI

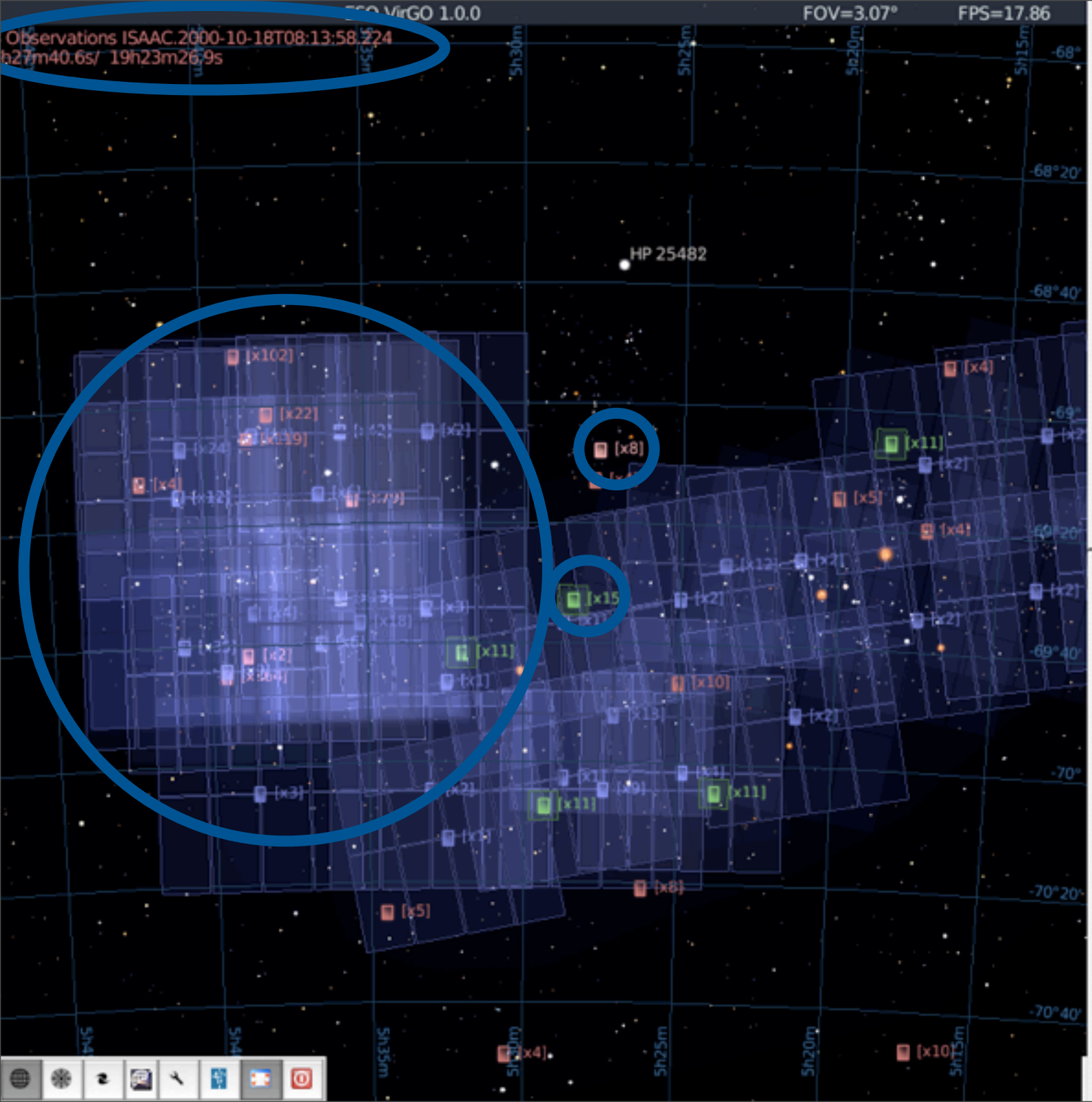
Target Selection

Simbad: 30Dor Found!

RA: 5h 38m 40.12s

Dec: -69° 6' 37.40"

Sho… ESO Scienc… Vis… Fil…



List Browser

View: All Selected

Select: All, None Selected: Show Preview, H

Date	revie	ExpTime	Instrument
2001-02-28		10	ISAAC
2006-10-31		20	ISAAC
2001-02-28		10	ISAAC
2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
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2000-10-17		0.104	ISAAC
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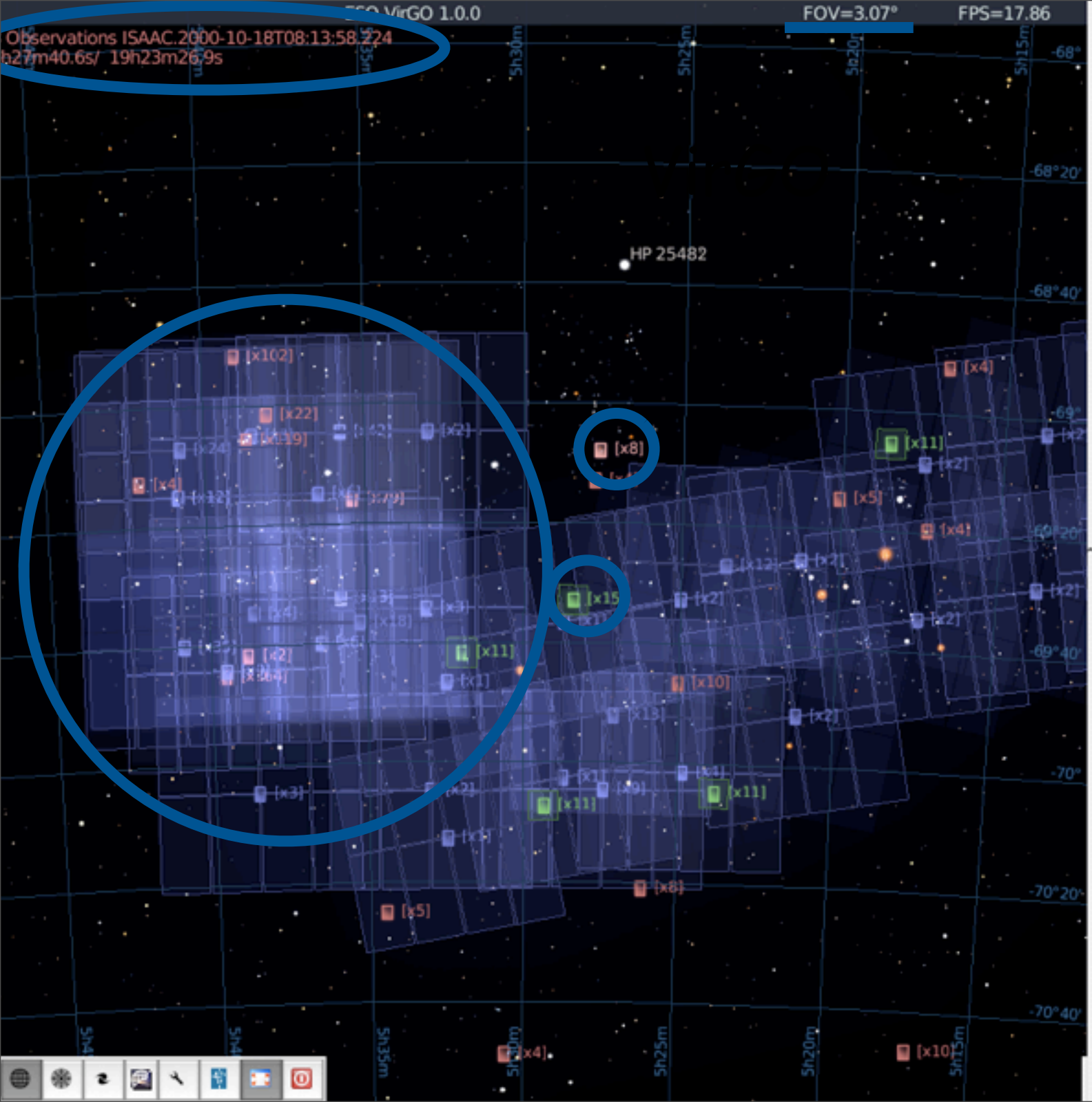

List Browser

View: All Selected

Select: All, None Selected: Show Preview, H

Date	revie	ExpTime	Instrument
2001-02-28		10	ISAAC
2006-10-31		20	ISAAC
2001-02-28		10	ISAAC
2001-02-28		10	ISAAC
2006-11-01		30	ISAAC
1999-10-27		30	ISAAC
2006-10-31		60	ISAAC
2000-10-08		10	ISAAC
2000-10-17		0.104	ISAAC
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Image: ISAAC.2000-10-18T08:13:58.224

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Data set [image/fits: 1024x1024]

Transmission Curve [VOTable]

View Selector

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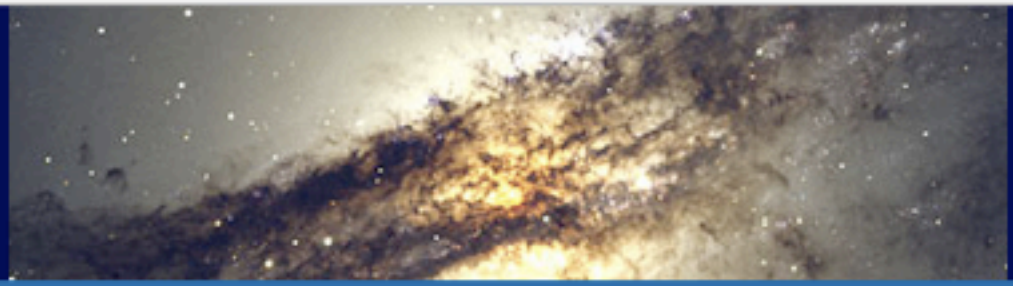
VirGO

ESO/ST-ECF — SAF – Science Archive Facility

http://archive.eso.org/cms/

URO-VO ESOmail IACmail ADS Journals Music MVV

ESO
European Organisation for Astronomical Research in the Southern Hemisphere



Science Archive Facility

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- Virtual Observatory Tools
- Catalogues & DSS
- Tools & Documentation
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- ESO Archive News

Welcome to the ESO/ST-ECF Science Archive Facility

The ESO/ST-ECF science archive is a joint collaboration of the European Organisation for Astronomical Research in the Southern Hemisphere (ESO) and the Space Telescope - European Coordinating Facility (ST-ECF). ESO observational data can be requested after the proprietary period by the astronomical community. Please read the official ESO Data Access Policy statement for more information. Both the ESO and HST archives are available world-wide. To request data you have log in to the ESO User Portal. Please acknowledge the use of archive data in your publications.

To browse the contents of the ESO archive, use the main ESO archive query form or the VirGO application.

Latest News and Updates

- GaBoDS/WFI data release: Version 1.1 (2008-03-19)
- ESO/MVM data reduction software release (2008-02-28)
- GOODS/VIMOS Spectroscopy Data Release: Version 1.0 (2008-02-21)
- MAD Science Demonstration Data Release (2008-02-06)
- 'Monitor' NGC 2547/WFI Data Release: Version 1.0 (2008-01-21)
- GOODS/FORS2 Final Data Release: Version 3.0 (2007-11-07)
- HAWK-I Science Verification (2007-11-01)
- zCOSMOS DR1 Advanced Data Products now available (2007-10-30)

one

VirGO

VirGO is the next generation Visual Browser for the ESO Science Archive Facility developed by the VO Systems Department. It is a plug-in for the popular open source software Stellarium with added capabilities for browsing professional astronomical data. VirGO gives astronomers the possibility to easily discover and select data from millions of observations in a new visual and intuitive way. Its main feature is to perform real-time access and graphical display of a large number of observations by showing instrumental footprints and image previews, and to allow their selection and filtering for subsequent retrieval. It reads FITS images and catalogues in VOTable format. It superimposes DSS background images and allows to view the sky in a *real life* mode as seen from the main ESO sites. Data interfaces are based on Virtual Observatory standards enabling access to images and spectra hosted by other data centers and to exchange data with other VO applications through the PLASTIC messaging system.

A large fraction of ESO's non proprietary science products are already accessible through VirGO and more are to come:
Data Availability Status Page

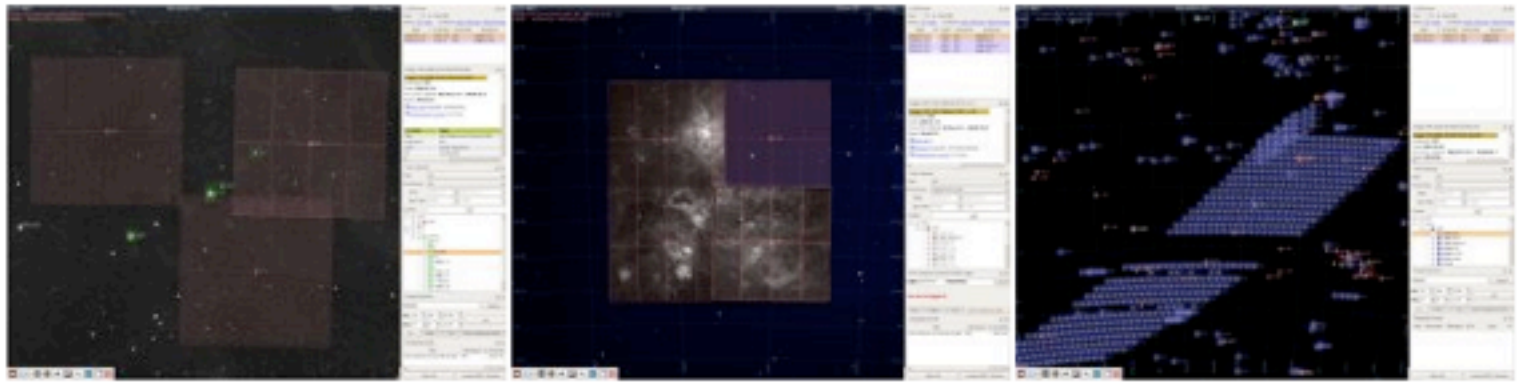
Screenshots

These screenshots illustrate some of the main features of VirGO such as footprints, DSS background, images previews or

Data Availability Status
Related External Services
ESO & HST Image Galleries
ESO Archive News

Screenshots

These screenshots illustrate some of the main features of VirGO such as footprints, DSS background, images previews or browsing through large number of data sets.



Download

VirGO-1.3.1 (February 20th 2008) is distributed as a binary compiled for linux-i386, MacOSX and windows. The package contains a binary version of Stellarium 0.9.1, the VirGO plug-in for ESO archive access and some extra star catalogs and landscapes.

It is possible to add some extra star catalogs to allow seeing more than the default 2.3 million stars (up to 210 millions) by downloading the files star5-8 and saving them in the VirGO-1.3.1-xxxx/stars/default/ directory, then restarting the program.

for Linux i386 32bits	VirGO-1.3.1-linux32.tgz	(66mb)	*md5sum = 99e72292b283e1a94b50cb116a63009d*
for MacOSX powerpc	VirGO-1.3.1-macosx-powerpc.tgz	(102mb)	*md5sum = 57baccfb987424374b66c5f2852a6a8c*
for MacOSX Intel	VirGO-1.3.1-macosx-intel.tgz	(106mb)	*md5sum = 489ff6f49a0edc760ee954bfafdd9d1a*

Installation

- If a previous installation of Stellarium exists, one may need to delete the $HOME/.stellarium directory to restore the default configuration.
- On Linux and MacOSX: download the package matching the architecture, uncompress it and run ./VirGO.sh in a console from the new directory. For example, on Linux issue the following commands on a terminal:

```
tar -xzf VirGO-1.3.1-linux32.tgz
cd VirGO-1.3.1-linux32
./VirGO.sh
```

- On Windows: download the zip file, uncompress it and double click on stellarium.exe
- Optional: edit the VirGO-1.3.1-xxxx/modules/VirGO/**DataResources.ini** file to specify custom SIA/SSA services incl. settings such as the default query size.

Requirements

- A 32 bit linux machine (i86 architectures only) or MacOSX or Windows 32 bits.
- Hardware openGL acceleration. On Linux one can verify proper hardware acceleration using the *glxinfo* command. Installation of recent graphic drivers resolves performance problems.
- Data requests through the data basket require an ESO user portal account.

Quick Start Guide

First time users should take a few minutes to go through the getting started section. Click on the respective screenshot when getting stuck.

a) Browsing Observations (screenshot)

Visual browsing of archive content through *VirGO* is mostly based on auto-generated positional queries. To trigger a query
1. choose the *Target Selection* tab
2. specify *Simbad* resolvable name or coordinates and press *Go!*