

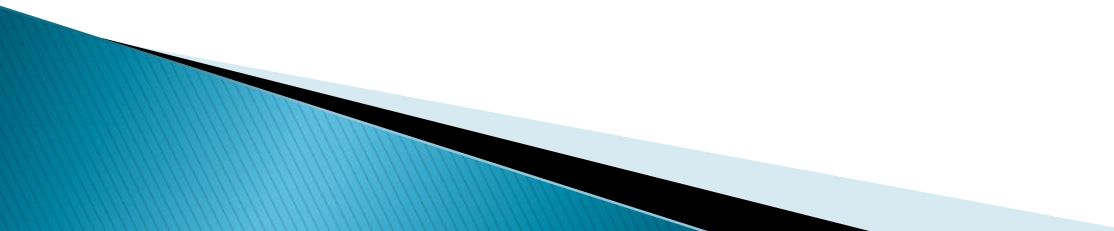


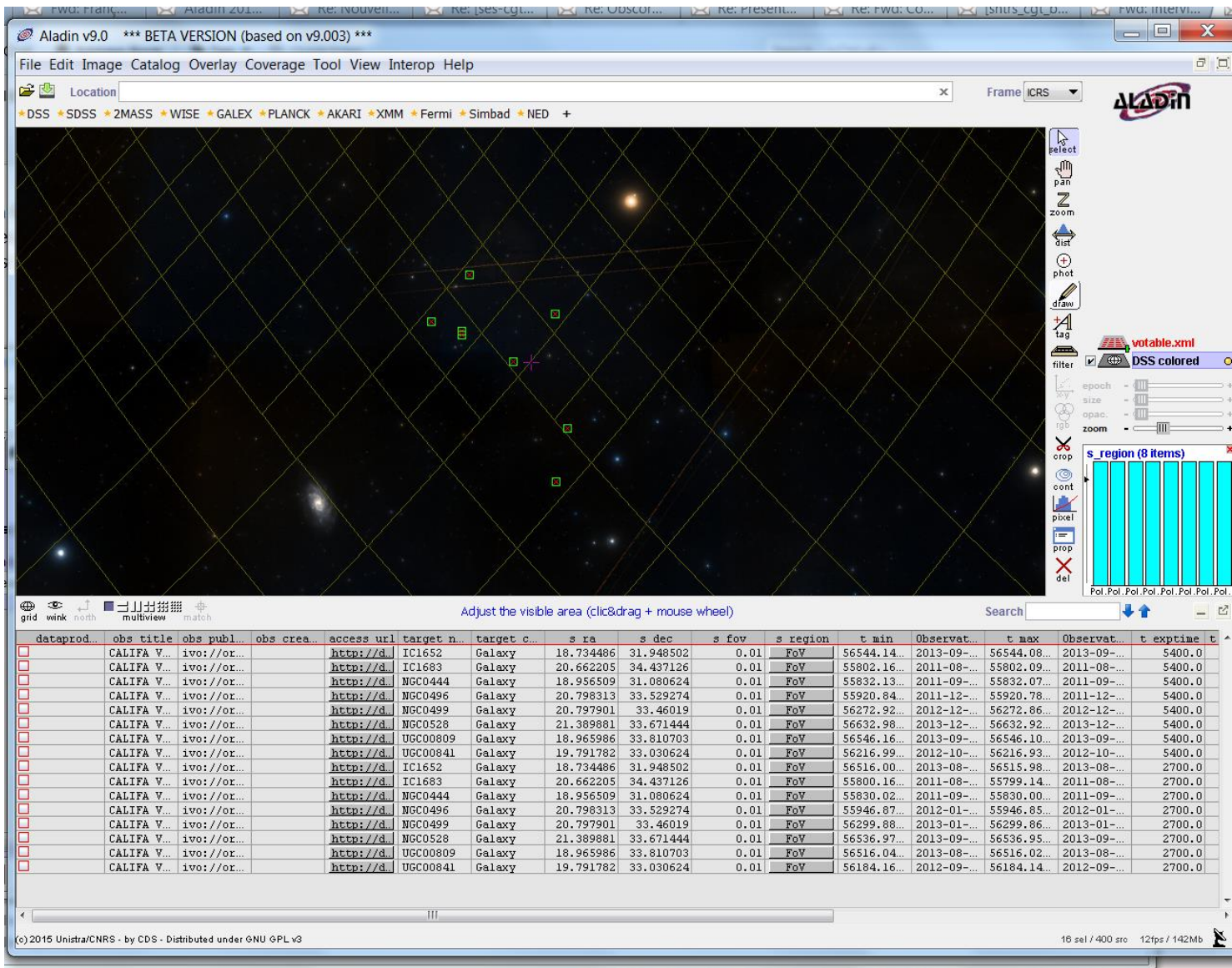
Prototyping DL and SODA client in Aladin

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P.Fernique
All Aladin code by Chaitra



SIAV2 / Obstap response display

- Clickable URL (Dataset retrieval or {links} call)
 - S_region → Visualized as an FOV on top of preview
- 





CALIFA 1: ObsTAP response display

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Location 01:19:10.03 +33:01:50.2 Frame ICRS

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Simbad NED +

Select
pan
zoom
dist
phot
draw
tag
filter

votable.xml
DSS colored

epoch
size
opac.
zoom

s_region (3 items)

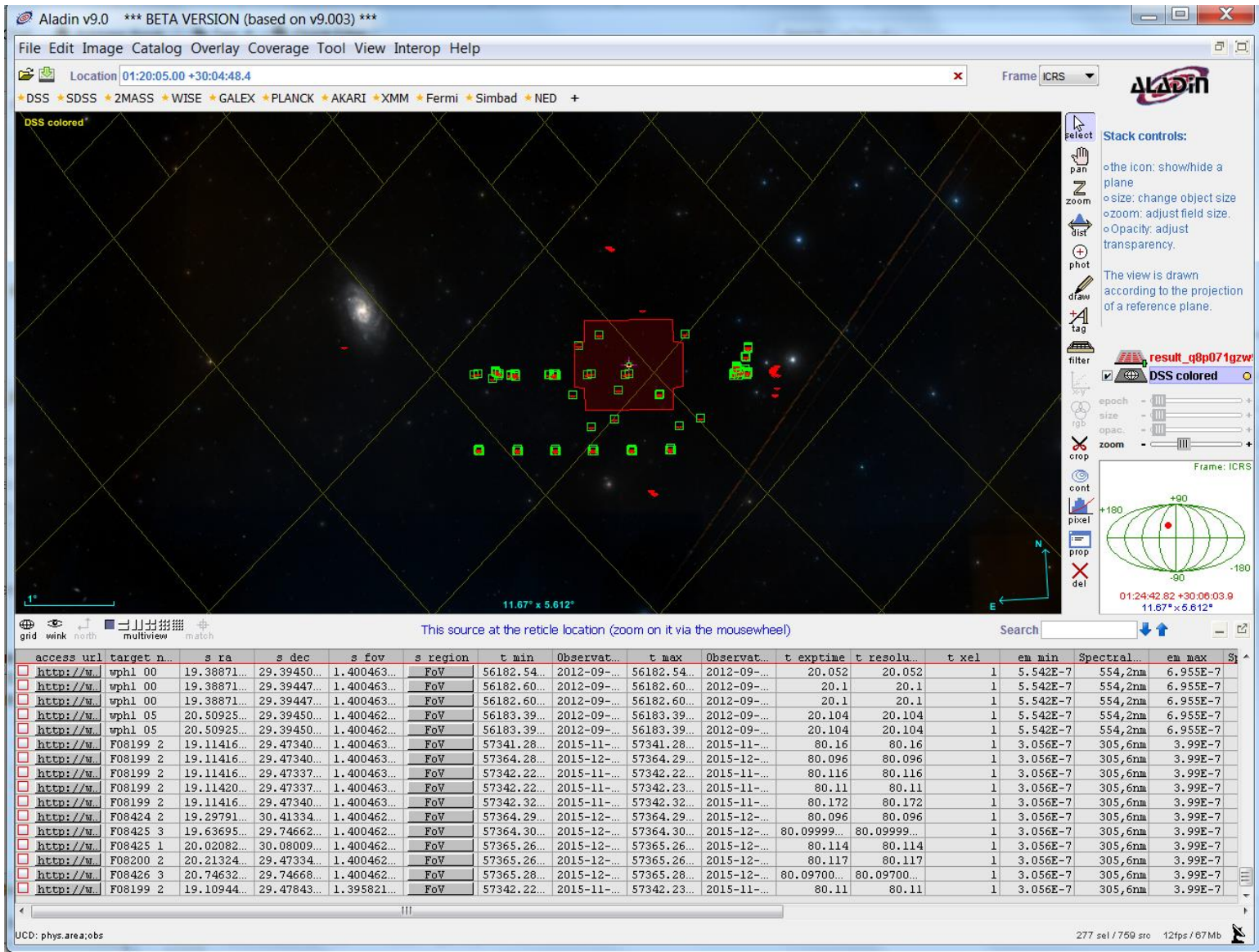
obscore - s_region - Region covered by the observation, as a polygon

dataprod...	obs title	obs publ...	obs crea...	access url	target n...	target c...	s ra	s dec	s fov	s region	t_min	Observat...	t_max	Observat...	t_exptime t
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0496	Galaxy	20.798313	33.529274	0.01	FoV	55920.84...	2011-12-...	55920.78...	2011-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0499	Galaxy	20.797901	33.46019	0.01	FoV	56272.92...	2012-12-...	56272.86...	2012-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	UGC00841	Galaxy	19.791782	33.030624	0.01	FoV	56216.99...	2012-10-...	56216.93...	2012-10-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0496	Galaxy	20.798313	33.529274	0.01	FoV	55946.87...	2012-01-...	55946.85...	2012-01-...	2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0499	Galaxy	20.797901	33.46019	0.01	FoV	56299.88...	2013-01-...	56299.86...	2013-01-...	2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	UGC00841	Galaxy	19.791782	33.030624	0.01	FoV	56184.16...	2012-09-...	56184.14...	2012-09-...	2700.0

UCD: phys.angArea:obs

6 sel / 400 src 18fps / 101Mb

CALIFA 2 : Field of View



CADC 1 : SIAV2 response and FOV display

DataLink visualisation

- When clicking on access_reference
 - Each link identified by a line with the description field content
 - And if it there is no description, by semantics field !!
 - Clicking on a Link to a service opens a menu

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Location 01:23:11.60 +33:31:45.4 Frame ICRS

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Simbad NED +

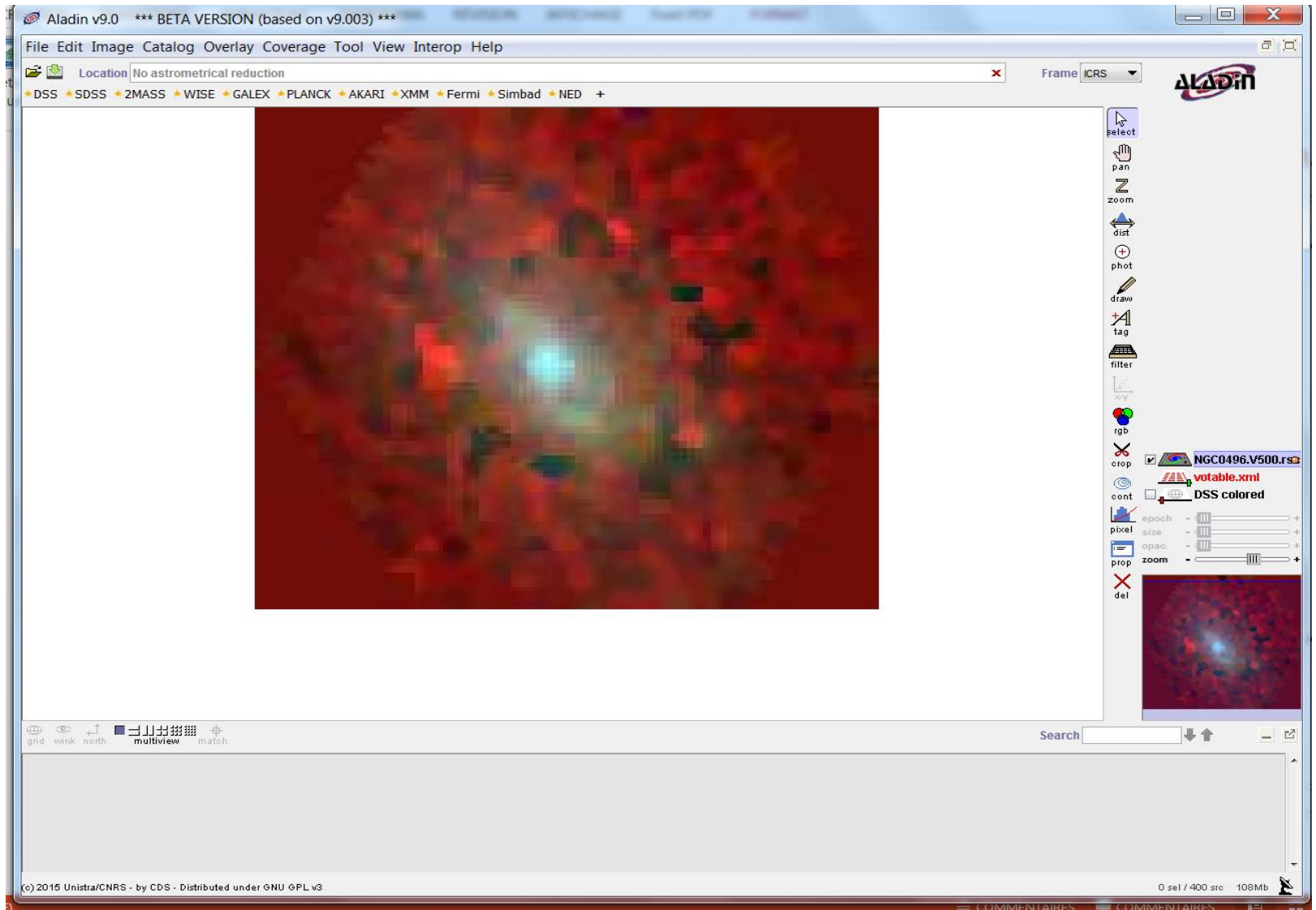
obscore - access_url - The URL at which to obtain the data set. Search

dataproduct	obs title	obs publ.	obs crea...	access url	target n...	target c...	s ra	s dec	s fov	s region	t min	Observat...	t max	Observat...	t exptime	t
<input type="checkbox"/>	CALIFA V...	ivo://or...		http											-12...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http											-12...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http											-10...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http											-01...	2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http											-01...	2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http											-09...	2700.0

TIP: Create a scatter graph from the sources measurements => Catalog>Scatter plot

6 sel / 400 src 101 Mb

CALIFA 3 : {links} response display



CALIFA 4: preview display

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Location [020.79831 +33.52927](#) Frame ICRSd

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Simbad NED +

NGC0496.V500.rs2
votable.xml
DSS colored

epoch = [slider] +
size = [slider] +
rgb = [slider] +
opac = [slider] +
zoom = [slider] +

Frame: ICRSd
+180 +90
-180 -90
020.79831 +33.52927
1.307° x 37.75'

This source at the reticle location (zoom on it via the mousewheel)

dataprod...	obs title	obs publ...	obs crea...	access url	target n...	target c...	s ra	s dec	s fov	s region	t min	Observat...	t max	Observat...	t exptime t
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0496	Galaxy	20.798313	33.529274	0.01	FoV	55920.84...	2011-12-...	55920.78...	2011-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0499	Galaxy	20.797901	33.46019	0.01	FoV	56272.92...	2012-12-...	56272.86...	2012-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0528	Galaxy	21.389881	33.671444	0.01	FoV	56632.98...	2013-12-...	56632.92...	2013-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0496	Galaxy	20.798313	33.529274	0.01	FoV	55946.87...	2012-01-...	55946.85...	2012-01-...	2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...											2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...											2700.0

This cube in high resolution. (size -1 bytes)
Retrieve data from this cube using the califadr2.fluxposv500 and califadr2.fluxposv1200 tables (size -1 bytes)

#access (size -1 bytes)
#access (size -1 bytes)
The full dataset. (size 147637440 bytes)
A preview for the dataset. (size -1 bytes)

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6 sel / 400 src 141Mb

CALIFA 5: SODA selection

SODA menu

- SODA parameters based on
 - specification
 - occurrence of s_region, t_min, t_max, s_min , s_max, pol_states in discovery query response
- Free parameters added from service descriptor

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Location 020.79831 +33.52927

Frame ICRSd

Server selector

Others **Cutout**

o Cutout service ?

Fill in all these fields and press the SUBMIT button

Target (ICRSd, name) 20.79 33.52

Radius 0.005

Time 55946.877289,55946.854098

Band 0.0 1.0E-6

Pol I

ID /org.gavo.dc/~?califa/datadr2/NGC0496.V500.rscube.fits

?

NGC0496.V500.rscube
votable.xml
DSS colored

epoch = +
size = +
rgb opac = +
zoom = +

Frame: ICRSd

+180 +90
-180 -90

020.79831 +33.52927
1.307" x 37.75"

This source at the reticle location (zoom on it via the mousewheel)

Search

dataproduct...	obs title	obs publ...	obs crea...	access url	target n...	target c...	s ra	s dec	s fov	s region	t min	Observat...	t max	Observat...	t exptime t
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0496	Galaxy	20.798313	33.529274	0.01	FoV	55920.84...	2011-12-...	55920.78...	2011-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0499	Galaxy	20.797901	33.46019	0.01	FoV	56272.92...	2012-12-...	56272.86...	2012-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0528	Galaxy	21.389881	33.671444	0.01	FoV	56632.98...	2013-12-...	56632.92...	2013-12-...	5400.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...	NGC0496	Galaxy	20.798313	33.529274	0.01	FoV	55946.87...	2012-01-	55946.85...	2012-01-	2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...											2700.0
<input type="checkbox"/>	CALIFA V...	ivo://or...		http://d...											2700.0

This cube in high resolution. (size -1 bytes)

Retrieve data from this cube using the califadr2.fluxposv500 and califadr2.fluxposv1200 tables (size -1 bytes)

#access (size -1 bytes)

#access (size -1 bytes)

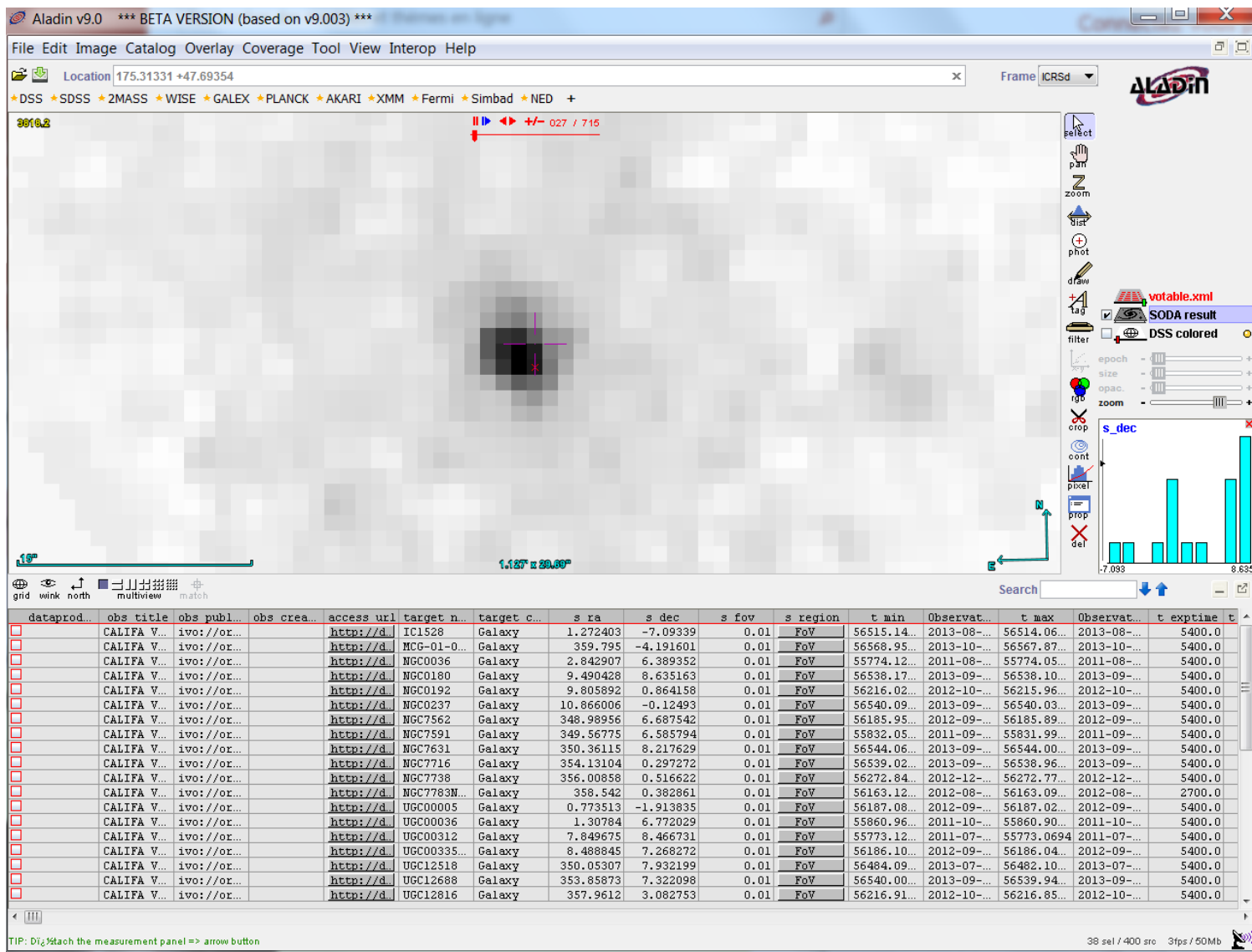
The full dataset. (size 147637440 bytes)

A preview for the dataset. (size -1 bytes)

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6 sel / 400 src 141Mb

CALIFA 6 : SODA menu



CALIFA 7 : retrieved cutout channel 27

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Location 175.31890 +47.69443 Frame ICRSd

+DSS +SDSS +2MASS +WISE +GALEX +PLANCK +AKARI +XMM +Fermi +Simbad +NED +

9076.8 || <> +/- 240 / 715 0.07102

1.125" x 80.80"

1.283" x 1.2"

checkbox	dataprod...	obs title	obs publ...	obs crea...	access url	target n...	target c...	s ra	s dec	s fov	s region	t min	Observat...	t max	Observat...	t exptime
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	IC1528 Galaxy		1.272403	-7.09339	0.01	FoV	56515.14...	2013-08-...	56514.06...	2013-08-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	MCG-01-0... Galaxy		359.795	-4.191601	0.01	FoV	56568.95...	2013-10-...	56567.87...	2013-10-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC0036 Galaxy		2.842907	6.389352	0.01	FoV	55774.12...	2011-08-...	55774.05...	2011-08-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC0180 Galaxy		9.490428	8.635163	0.01	FoV	56538.17...	2013-09-...	56538.10...	2013-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC0192 Galaxy		9.805892	0.864158	0.01	FoV	56216.02...	2012-10-...	56215.96...	2012-10-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC0237 Galaxy		10.866006	-0.12493	0.01	FoV	56540.09...	2013-09-...	56540.03...	2013-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC7562 Galaxy		348.98956	6.687542	0.01	FoV	56185.95...	2012-09-...	56185.89...	2012-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC7591 Galaxy		349.56775	6.585794	0.01	FoV	55832.05...	2011-09-...	55831.99...	2011-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC7631 Galaxy		350.36115	8.217629	0.01	FoV	56544.06...	2013-09-...	56544.00...	2013-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC7716 Galaxy		354.13104	0.297272	0.01	FoV	56539.02...	2013-09-...	56538.96...	2013-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC7738 Galaxy		356.00858	0.516622	0.01	FoV	56272.84...	2012-12-...	56272.77...	2012-12-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	NGC7783N Galaxy		358.542	0.382861	0.01	FoV	56163.12...	2012-08-...	56163.09...	2012-08-...	2700.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC00005 Galaxy		0.773513	-1.913835	0.01	FoV	56187.08...	2012-09-...	56187.02...	2012-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC00036 Galaxy		1.30784	6.772029	0.01	FoV	55860.96...	2011-10-...	55860.90...	2011-10-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC00312 Galaxy		7.849675	8.466731	0.01	FoV	55773.12...	2011-07-...	55773.0694	2011-07-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC00335... Galaxy		8.488845	7.268272	0.01	FoV	56186.10...	2012-09-...	56186.04...	2012-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC12518 Galaxy		350.05307	7.932199	0.01	FoV	56484.09...	2013-07-...	56482.10...	2013-07-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC12688 Galaxy		353.85873	7.322098	0.01	FoV	56540.00...	2013-09-...	56539.94...	2013-09-...	5400.0
<input type="checkbox"/>		CALIFA V...	ivo://or...		http://d...	UGC12816 Galaxy		357.9612	3.082753	0.01	FoV	56216.91...	2012-10-...	56216.85...	2012-10-...	5400.0

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CALIFA 8 : retrieved cutout channel 240

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

Server selector

Others **Cutout**

Cutout service ?

Fill in all these fields and press the SUBMIT button

ID

POS

CIRC

POLY

Reset Clear **SUBMIT** Close ?

Stack controls:

- the icon: show/hide a plane
- size: change object size
- zoom: adjust field size.
- Opacity: adjust transparency.

filter DSS colored

epoch size opac. zoom

Frame: ICRSd

021.17844 +30.10108
11.67° x 5.116°

Search

min	Observat...	t max	Observat...	t exptime	t resolu...	t xel	em min	Spectral...	em max	Sp
80031	20.06822...	29.97737...	4.124469...	FoV	56251.23...	2012-11-...	56251.23...	2012-11-...	60.0	60.00000...
wph1 00	19.38871...	29.39450...	1.400463...	FoV	56182.54...	2012-09-...	56182.54...	2012-09-...	20.052	20.052
wph1 00	19.38871...	29.39450...	1.400463...	FoV	56182.54...	2012-09-...	56182.54...	2012-09-...	20.052	20.052
wph1 00	19.38871...	29.39447...	1.400463...	FoV	56182.60...	2012-09-...	56182.60...	2012-09-...	20.1	20.1
wph1 00	19.38871...	29.39447...	1.400463...	FoV	56182.60...	2012-09-...	56182.60...	2012-09-...	20.1	20.1
wph1 05	20.50925...	29.39450...	1.400462...	FoV	56183.39...	2012-09-...	56183.39...	2012-09-...	20.104	20.104
wph1 05	20.50925...	29.39450...	1.400462...	FoV	56183.39...	2012-09-...	56183.39...	2012-09-...	20.104	20.104
F08199 2	19.11416...	29.47340...	1.400463...	FoV	57341.28...	2015-11-...	57341.28...	2015-11-...	80.16	80.16
F08199 2	19.11416...	29.47340...	1.400463...	FoV	57341.28...	2015-11-...	57341.28...	2015-11-...	80.16	80.16
F08199 2	19.11416...	29.47337...	1.400463...	FoV	57342.22...	2015-11-...	57342.22...	2015-11-...	80.116	80.116
F08199 2	19.11420...	29.47337...	1.400463...	FoV	57342.22...	2015-11-...	57342.23...	2015-11-...	80.11	80.11
F08199 2	19.11416...	29.47340...	1.400463...	FoV	57342.32...	2015-11-...	57342.32...	2015-11-...	80.172	80.172
F08424 2	19.29791...	30.41334...	1.400462...	FoV	57364.29...	2015-12-...	57364.29...	2015-12-...	80.096	80.096
F08425 3	19.63695...	29.74662...	1.400462...	FoV	57364.30...	2015-12-...	57364.30...	2015-12-...	80.09999...	80.09999...
F08425 1	20.02082...	30.08009...	1.400462...	FoV	57365.26...	2015-12-...	57365.26...	2015-12-...	80.114	80.114

This dataset (size 246847680 bytes)

Get cutout

Get cutout

Get cutout

(c) 2015 Unistr

277 sel / 759 src 83Mb

CADC 2 : SODA interface with free parameter

Aladin v9.0 *** BETA VERSION (based on v9.003) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help

Location Frame ICRSd

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Simbad NED +

DSS colored 1.571

select
pan
zoom
list
phot
draw
tag
filter

IRAS-25um
I212B2H0&POS=C1
DSS colored

epoch
size
opac
zoom

16.84° x 7.37°

IRAS-25um - em_xel - dimensions (number of pixels)

ime	t	resolu...	t xel	em min	Spectral...	em max	Spectral...	em res p...	em xel	em ucd
<input type="checkbox"/>				1.9425E-5	19,425µm	3.0575E-5	30,575µm	2.2422	1	

Server selector

Others Cutout

Cutout service ?

Fill in all these fields and press the SUBMIT button

ID

POS

CIRC

POLY

Reset Clear SUBMIT Close ?

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1 sel / 1 src 66Mb

CADC SODA Interface, FOV of full dataset, cutout

Reports, problems

- ▶ Aladin still has bugs and missing functionalities (eg: failure to parse CASDA DataLink)
- ▶ -----
- ▶ GAVO /CALIFA
- ▶ #access instead of #cutout (semantics in {links})
- ▶ t_min > t_max (Obscore query response)
- ▶ em_min em_max not specific to dataset (too wide in Obscore)
- ▶ Dataproduct_type empty (distinction image/cube)
- ▶ -----
- ▶ CADC: no {links} description
- ▶ dataproduct_type empty (distinction image/cube)
- ▶ No answer with TIME and BAND for 2D images ?
- ▶ -----
- ▶ CASDA : link to image goes to browser not to Aladin??? (mime type)
- ▶ -----
- ▶ Should be good to get SODA descriptor in Discovery query response.
- ▶ Better integration for Aladin. Ad consistency with model fields