

J2000 20 53 3.86 +31 25 27.28



Aladin Lite

A lightweight sky visualizer running in the browser

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CDS scientific council 2013



Aladin Lite main features

- Multi-resolution image viewer
 - Visualize any region on the sky
 - Graphic overlays: catalogues, footprints
 - Interactivity: panning, zooming, selection
- Running natively in the browser
 - No plugin, no installation required
 - Desktops and tablets
- Easy to embed on any web page
- Lightweight
 - 32kB minified and gzipped
- Will replace the Aladin applet

Easy embedding

Choose options

Width px

Height px

Image survey

Initial location

Initial FoV deg

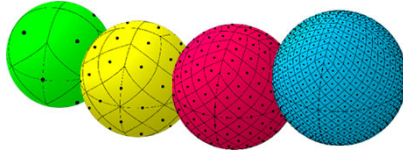
Copy/paste in your web page

```
<link href="http://aladin.u-  
strasbg.fr/AladinLite/api/v2/latest/aladin.min.css" rel="stylesheet">  
<script type="text/javascript" src="http://code.jquery.com/jquery-  
1.10.1.min.js" charset="utf-8"></script>
```

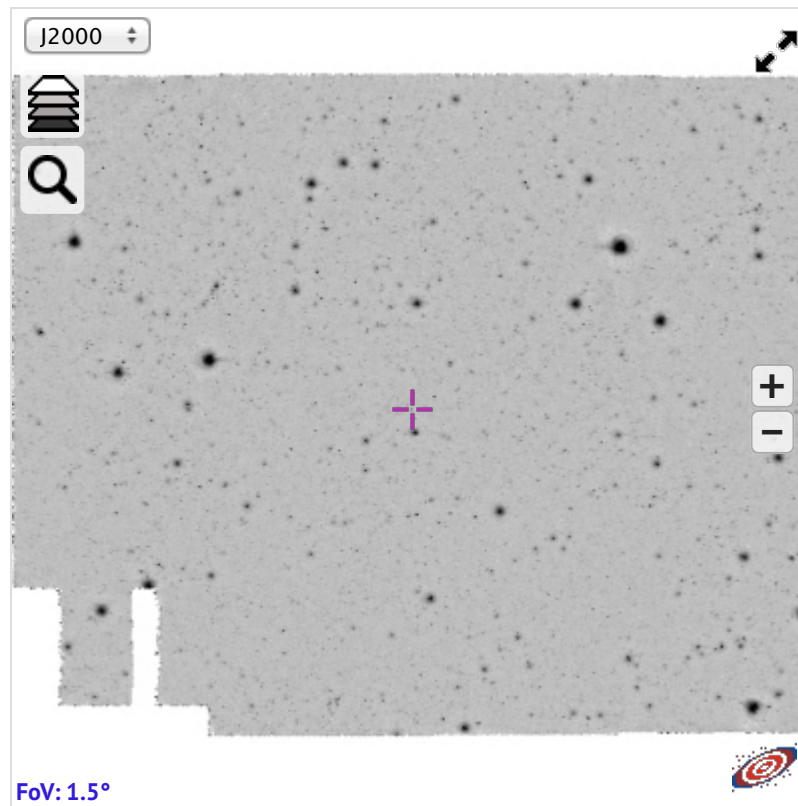
```
<!-- insert this snippet where you want Aladin Lite viewer to appear  
-->
```

```
<div id="aladin-lite-div" style="width:400px;height:400px;"></div>  
<script type="text/javascript" src="http://aladin.u-  
strasbg.fr/AladinLite/api/v2/latest/aladin.min.js" charset="utf-8">  
</script>  
<script type="text/javascript">  
var aladin = $.aladin('#aladin-lite-div', {survey: "P/DSS2/color",  
  
zoom:60});  
</script>
```

Client for HiPS (Hierarchical Progressive Survey)



- **HEALPix**-based tiled multi-resolution surveys
- Easy to generate from your set of images.
 - **SkyGen**: command-line tool available from Aladin web site
 - Example:
UltraVISTA Ks-band image (48k x 48k pixels) converted to HiPS



Aladin Lite control & customization

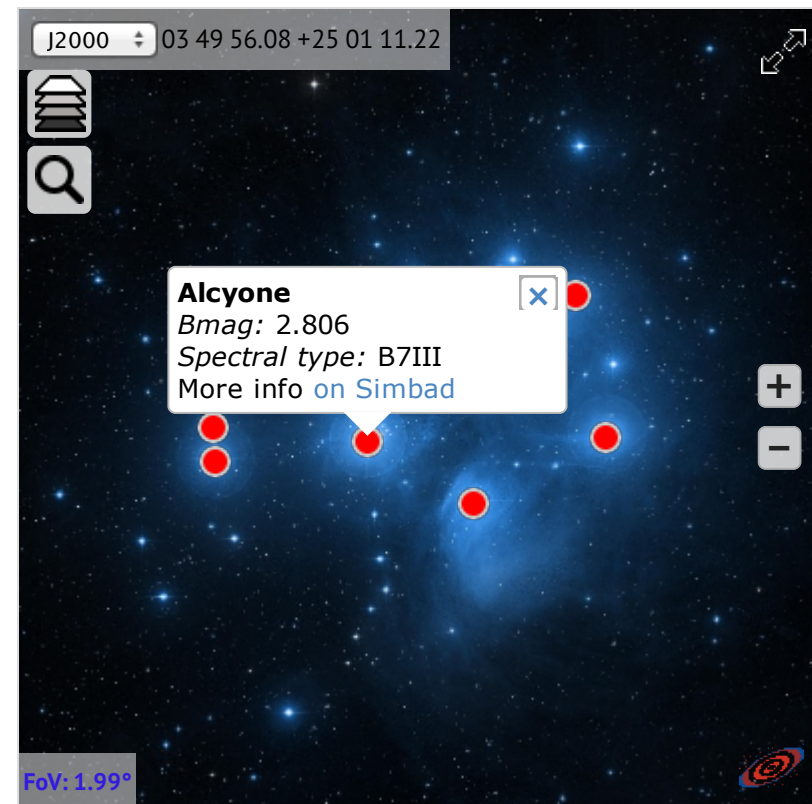
Aladin Lite API: set of methods to control Aladin Lite

- Update position, size of the field of view
 - Go to a position/object
 - Zoom in/Zoom out
- Update image survey (DSS, SDSS, 2MASS, etc)
- Create new catalogues, new footprints
- Listen to events
- Export
 - To PNG
 - To other tools

Usage example #1

Overlay markers

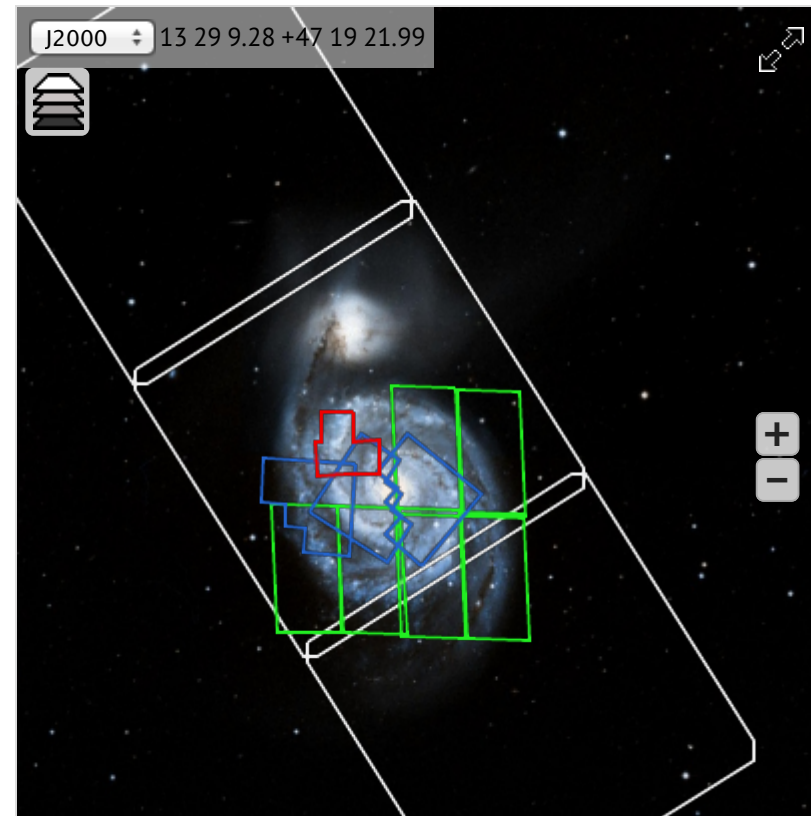
```
var a = $.aladin('myDiv', {target: 'M 45'});  
var cat = a.newCatalog();  
a.addLayer(cat);  
  
var marker = a.newMarker(56.87, 24.10,  
  {popupTitle: 'Alcyone',  
   popupText: 'Bmag: 2.8 ...'});  
cat.add(marker);
```



Usage example #2

Display footprints

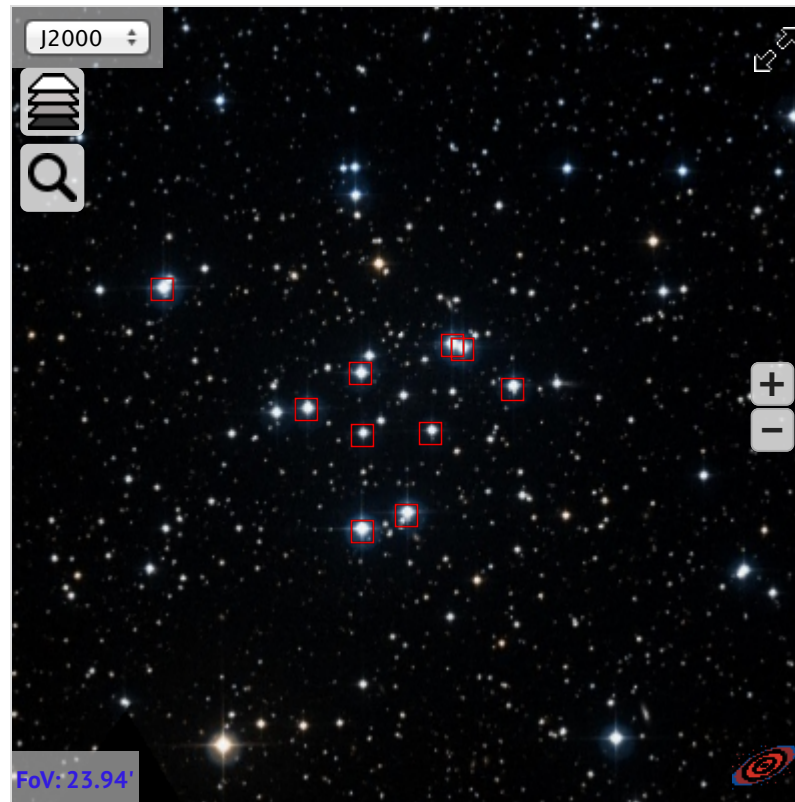
```
var a = $.aladin('myDiv', {target: 'M51'});  
  
var overlay = a.newOverlayLayer();  
a.add(layer);  
  
var polygon = a.newPolygon([[202.45,  
47.16], [202.41, 47.19], ...]);  
overlay.add(polygon);
```



Usage example #3

Rich interaction and callback

	TYC	RA	Dec	BTmag
✓	2853 2164 1	02 42 01.77	+42 44 54.0	9.864
✓	2853 112 1	02 42 12.96	+42 44 49.6	9.917
✓	2853 166 1	02 42 13.46	+42 46 40.7	8.884
✓	2853 22 1	02 41 58.44	+42 47 30.7	8.348
✓	2853 679 1	02 41 56.74	+42 47 23.3	8.388
✓	2853 1013 1	02 42 13.16	+42 41 57.4	8.139
✓	2853 958 1	02 42 45.75	+42 49 13.1	8.242
✓	2853 238 1	02 42 05.78	+42 42 26.7	8.253
✓	2853 1665 1	02 42 22.15	+42 45 36.6	8.862
✓	2853 334 1	02 41 48.49	+42 46 14.2	9.025



Who uses Aladin Lite ?



Preview of data products (D. Paradis/CADE)

Displaying contours (R. Williams/LIGO-Virgo)

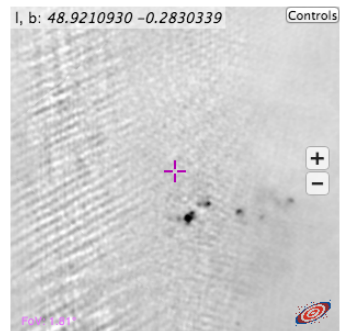
Atomic Hydrogen

Map:

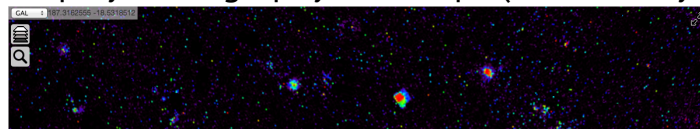
http://cade.irap.omp.eu/documents/Ancillary/VGPS/VGPS_1_8192.fits

Weight:

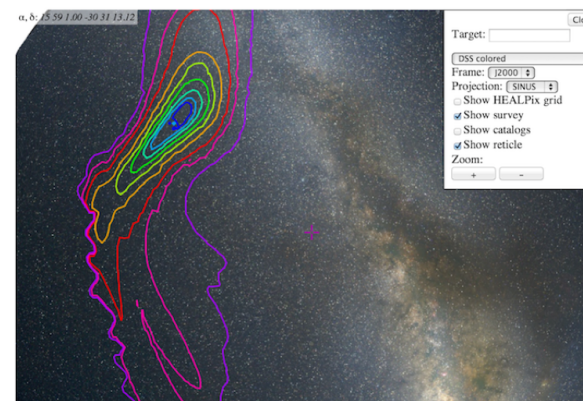
http://cade.irap.omp.eu/documents/Ancillary/VGPS/VGPS_1_8192_weight.fits



Display bibliography heatmaps (ADS All Sky Survey)



Skymap for G43582



Imaging toolbox (Blackwater skies)



In test

Integration in SIMBAD result page

Basic data :
LBN 060.95-00.03 -- HII (ionized) region


query around with radius 2 arcmin

Other object types: [Rad](#) (B2, BWE, FBR, G66, 870B, GRS, MITG, NVSS, WSRTGP, [CPA2002], [TGCS6]), [HII](#) (LBN, SH), [IR](#) (IRAS, RAFGL), [ISM](#) ([TP72])

ICRS coord. (ep=J2000): **19 46 20.90 +24 35 34.0** (~) [**600 600 175**] **D 3998A1...315...3693C**

Radial velocity / Redshift / cz: **V(km/s) 21.7** [-] / z(-) **0.000072** [-] / cz **21.70** [-] (-) **D 3998A1A5...315...81B**

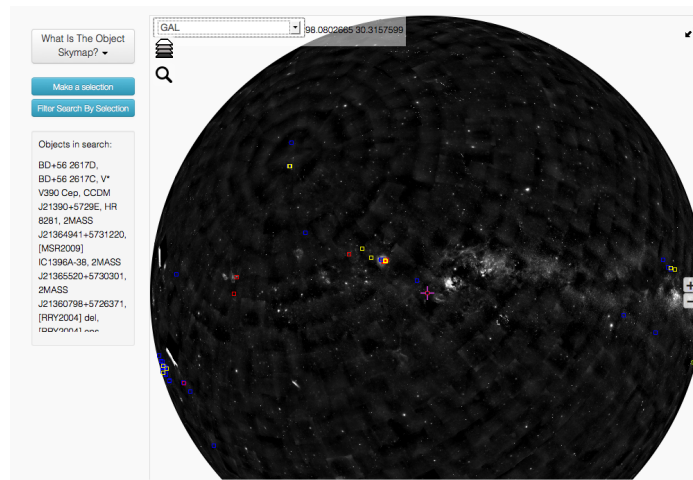
Spectral type: **07 0** -



Identifiers (18) :

LBN 060.95-00.03	S768 104413.6-242748	MITG J104623+2435	[CPA2002] 6
B2-2 1944+24	GRS 0600.90 -00.10	RUS3 J104620+243514	[TGCS6] 1944+2427
RNE 1944+2427	IRAS 19442+2427	DMS1 2459	[TP72] 65
FJR 2188	LBN 136	SH 2-87	
G66 01944+2427	MITG 3194623+2435	WSRTGP 1944+2427	

Integration in ADS Labs



What is The Object Skymap? 98.062085 30.3157599

Make a selection

Filter Search By Selection

Objects in search:

- BD+58 2617D,
- BD+58 2617C, V*
- V390 Cep, CCDM
- J21390+5729E, HR
- 6031, 2MASS
- J21364041+5731220, [MSR2009]
- IC1396A-38, 2MASS
- J21365520+5730301, 2MASS
- J21360798+5726371, [RRY2004] del, [RRY2004] del, [RRY2004] del,