

Displaying and manipulating instrument FoVs (**F**ield **o**f **V**iew) in Aladin

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Interop@Victoria – May 2006



Demo introduction

- Aladin is now capable to overlay on the sky user-defined instrument footprints
- Demo will show how one can load and manipulate those fields of view (FoVs) in Aladin
- Format of the FoV documents :
 - Presented Thursday morning in DAL5 by François Bonnarel



Screenshot 1 : predefined set of FoVs

The screenshot displays the Aladin v3.6 multiview software interface. The main window shows a grayscale image of the galaxy M83 with a red grid of 36 fields of view (FoVs) overlaid. The grid is labeled with numbers 00 to 35. A cyan circle highlights the 'm83' target name in the 'Server selector' window and the 'MEGAPRIME' instrument in the right-hand panel. The 'Server selector' window also shows a table of instruments and telescopes.

INSTRUMENT	TELESCOPE	COMMENT
WFPC2	HST	Wide Field and Planetary Camera
MEGACAM	CFHT	Wide field imaging camera
MEGAPRIME	CFHT	Wide field imaging camera + guiders
CFH12K	CFHT	Large field camera
EPICmos	XMM	Sensitive imaging (0.1 to 15 keV)
EPICpn	XMM	High resolution (<0.03ms)
HST_WFPC2_FOV		

The right-hand panel shows a list of instruments with 'MEGAPRIME' highlighted. The main image window shows a grid of 36 FoVs (00-35) and a cyan circle around the 'm83' target name. The bottom status bar indicates '6 planes, 1 view, 100Mb'.



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Screenshot 2 : load a user-defined FoV

The screenshot displays the Aladin v3.6 multiview software interface. The main window shows a galaxy image with a user-defined Field of View (FoV) overlaid as a green diamond shape. The interface includes a menu bar (Load..., Save..., Tools..., Interop..., Print..., Help..., Quit), a toolbar with various tools (select, dist, draw, tag, text, filter, rgb, assoc, isamp, cont, zoom), and a Properties panel on the left. The Properties panel is titled "Properties of the plane 'FOV'" and shows the following settings:

- Label: FoV
- Color: [Color selection palette]
- Reference coordinates: 13:36:57.60 -29:52:03.6
- Angle: 123
- Components:
 - 1- NIC1 (CAMERA-FOCUS 3)
 - 2- JWFCFIX
 - 3- SBC
 - 4- FGS1 (Avoidance circle)
 - 5- FGS1 (outline)
 - 6- FGS2 (Avoidance circle)
 - 7- FGS2 (outline)
 - 8- FGS3 (Avoidance circle)
 - 9- FGS3 (outline)
 - 10- NIC2 (CAMERA-FOCUS 3)
 - 11- NIC3
 - 12- CCD.50CCD
 - 13- FUV.25MAMA
 - 14- NUV.25MAMA
 - 15- PC1 (single chip)

The console window at the bottom right shows the command: `set FoV Roll=32.0`. The main viewing area shows a galaxy image with a green diamond-shaped FoV overlaid. The console window also shows the command: `[set FoV Roll=32.0]`. The console window has buttons for "Dump measurement frame", "Clear", and "Close".



Screenshot 3 : FoVs attached with observation logs

The screenshot displays the Aladin v3.6 multiview software interface. The main window shows a grayscale image of a galaxy (SERC.J.DSS1.444) with several rectangular fields of view (FoV) overlaid in magenta. The interface includes a menu bar (Load..., Save..., Tools..., Interop..., Print..., Help..., Quit), a toolbar with various tools (select, dist, draw, tag, text, filter, rgb, assoc, isamp, cont, zoom, mclass, pixel, prop, del), and a right-hand panel with a list of observation logs. The log list includes entries for 'demo_log.xi', 'PI-ESO.R.MA...', 'AAO.RDSS2', 'Lw-SERC.J.D...', 'SERC.J.DSS', and 'http...vizier.u...'. A small thumbnail of the galaxy is visible in the bottom right corner of the right panel. The bottom status bar shows '7 planes, 1 view, 7Mb'.

RA	Dec	Filter	Instrument	Action
13:36:39.18	-29:54:12.5	-25.0	WFPC2 FoV	Display Image (FITS)
13:36:59.90	-29:52:24.1	73.8	WFPC2 FoV	Display Image (FITS)
13:37:07.00	-29:50:59.0	0.0	WFI FoV	Display Image (FITS)
13:37:44.00	-29:51:52.0	0.0	SOFI FoV	Display Image (FITS)



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Links

- VO-Tech Twiki page on Simple Footprint Preview Specification :
<http://eurovotech.org/twiki/bin/view/VOTech/SFoVReqs>
- François Bonnarel's presentation in DAL5 :
http://ivoa.net/twiki/bin/view/IVOA/InterOpMay2006DAL#DAL_5_Thursday_morning
- IVOA note describing the FoV format coming soon ...

