

Working with GRASS

Examples

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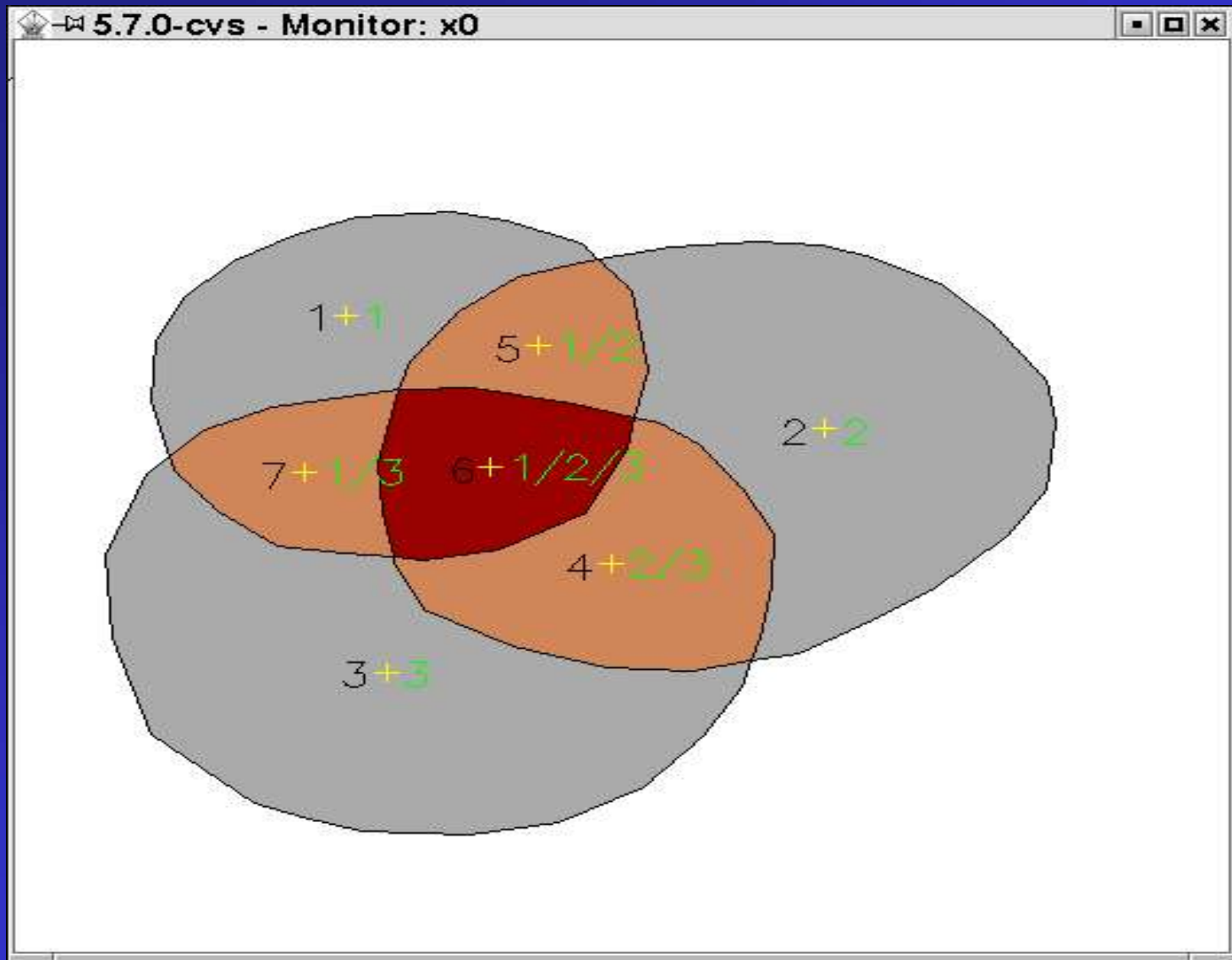
VŠB-TU Ostrava, HGF

tř. 17.listopadu

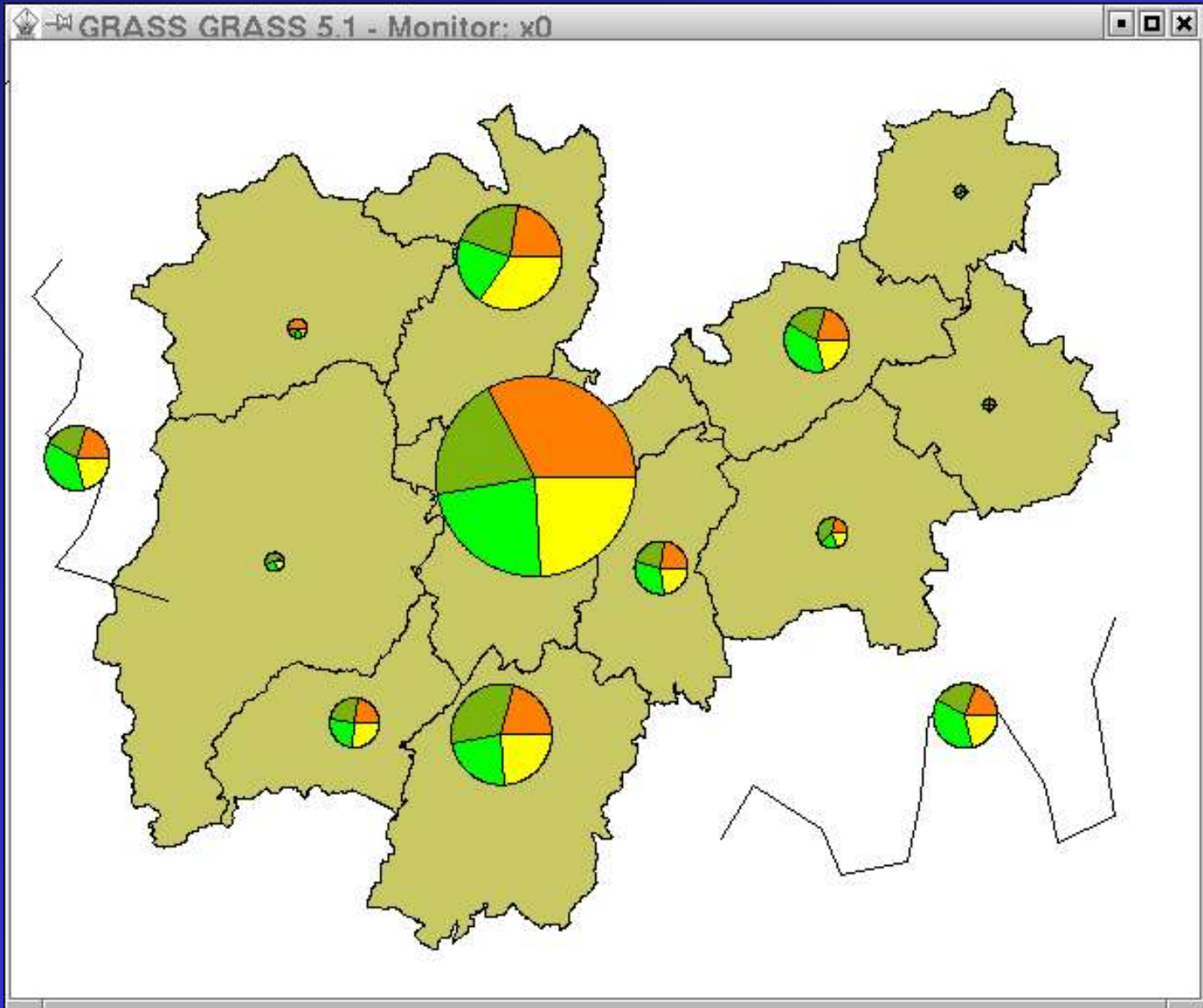
70833 Ostrava-Poruba

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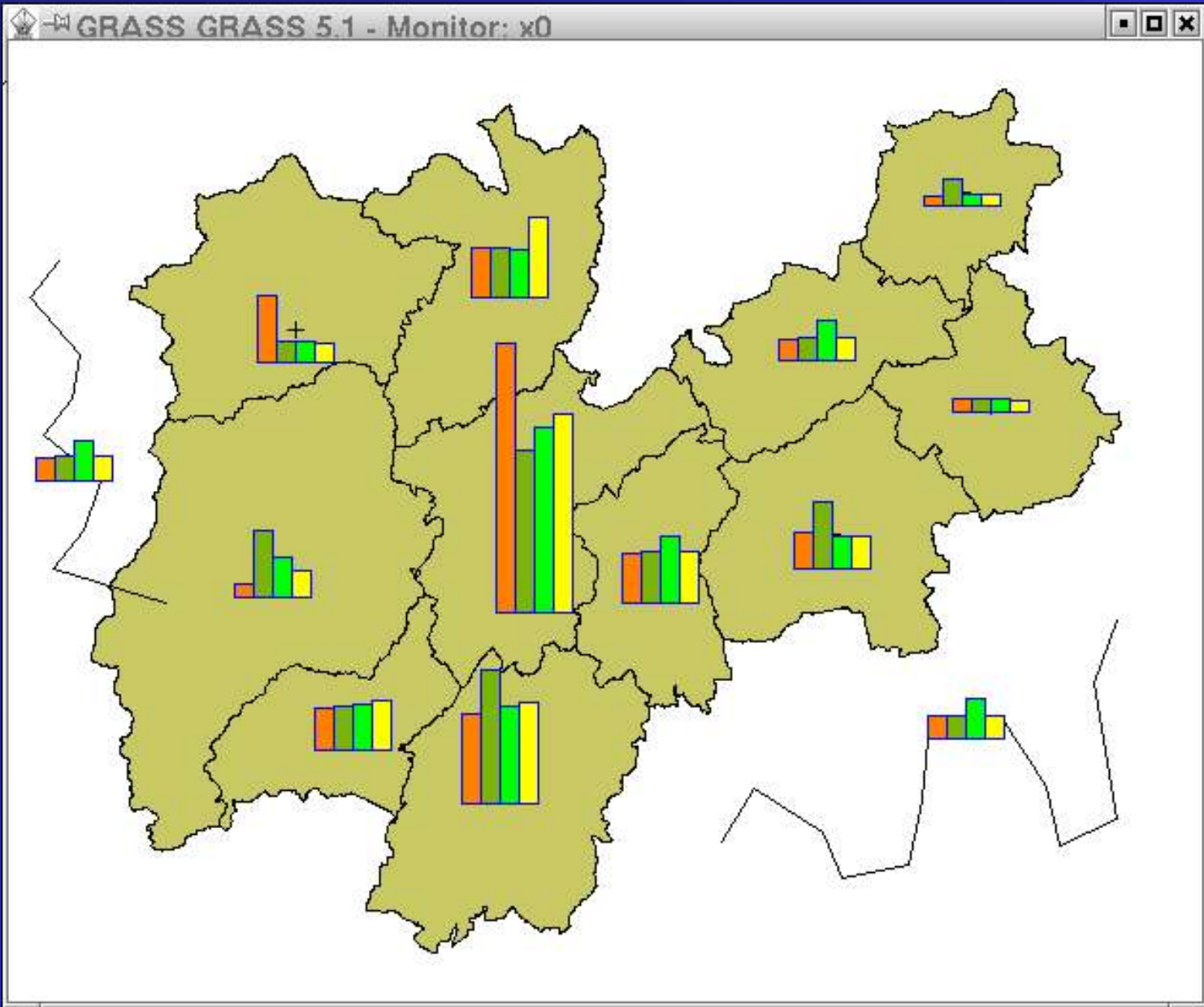
Region topology



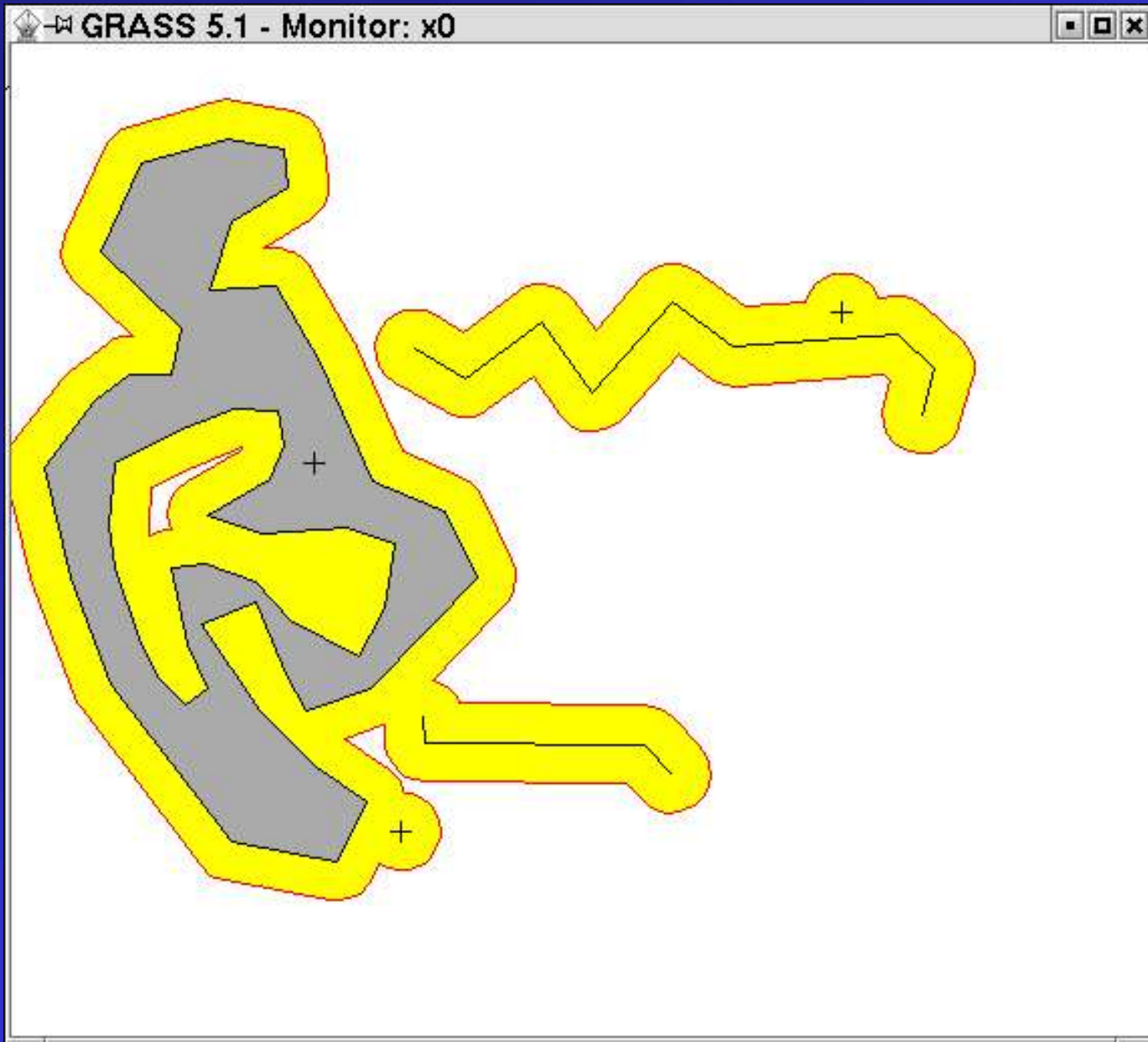
Pie chart



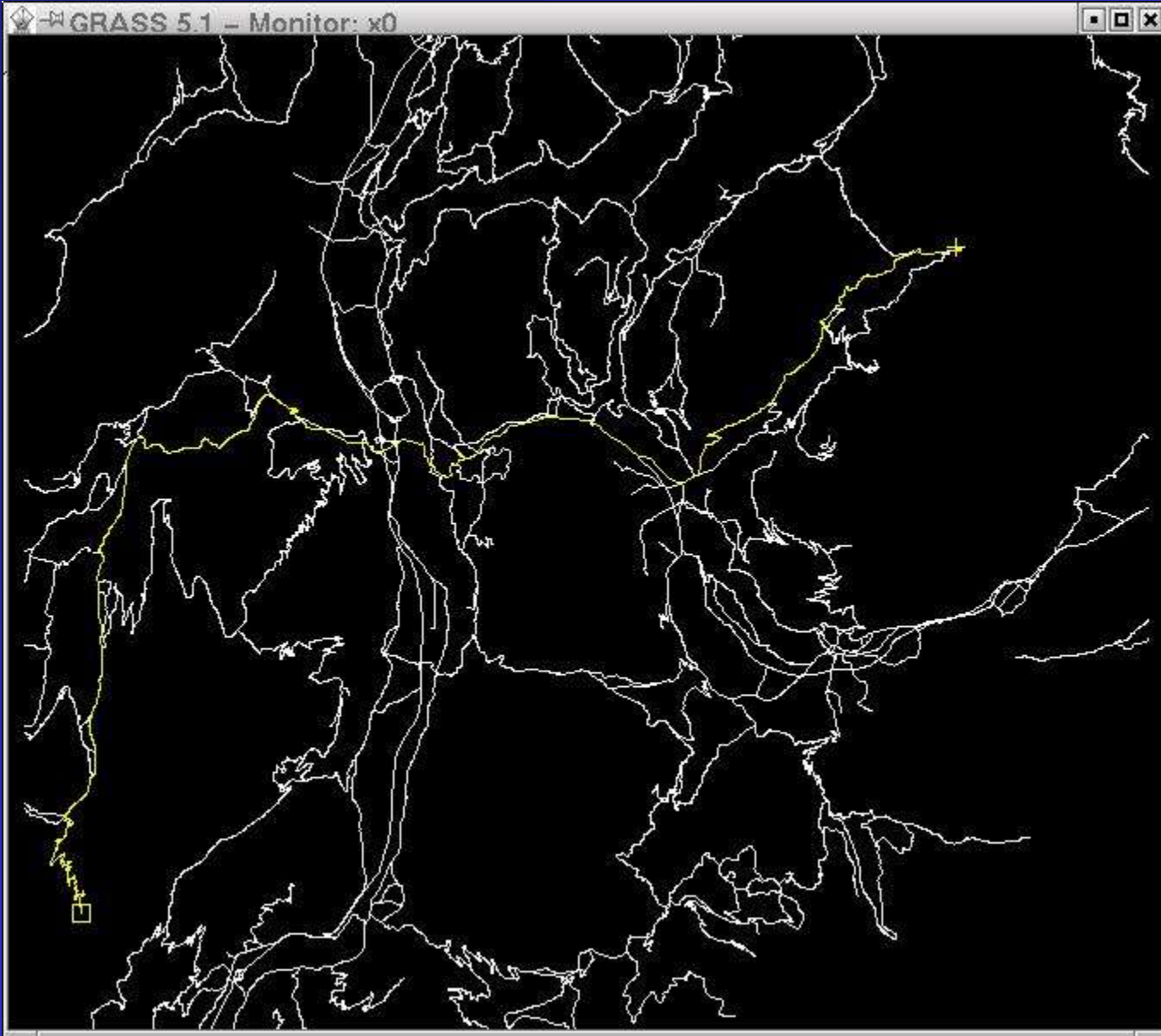
Bar chart



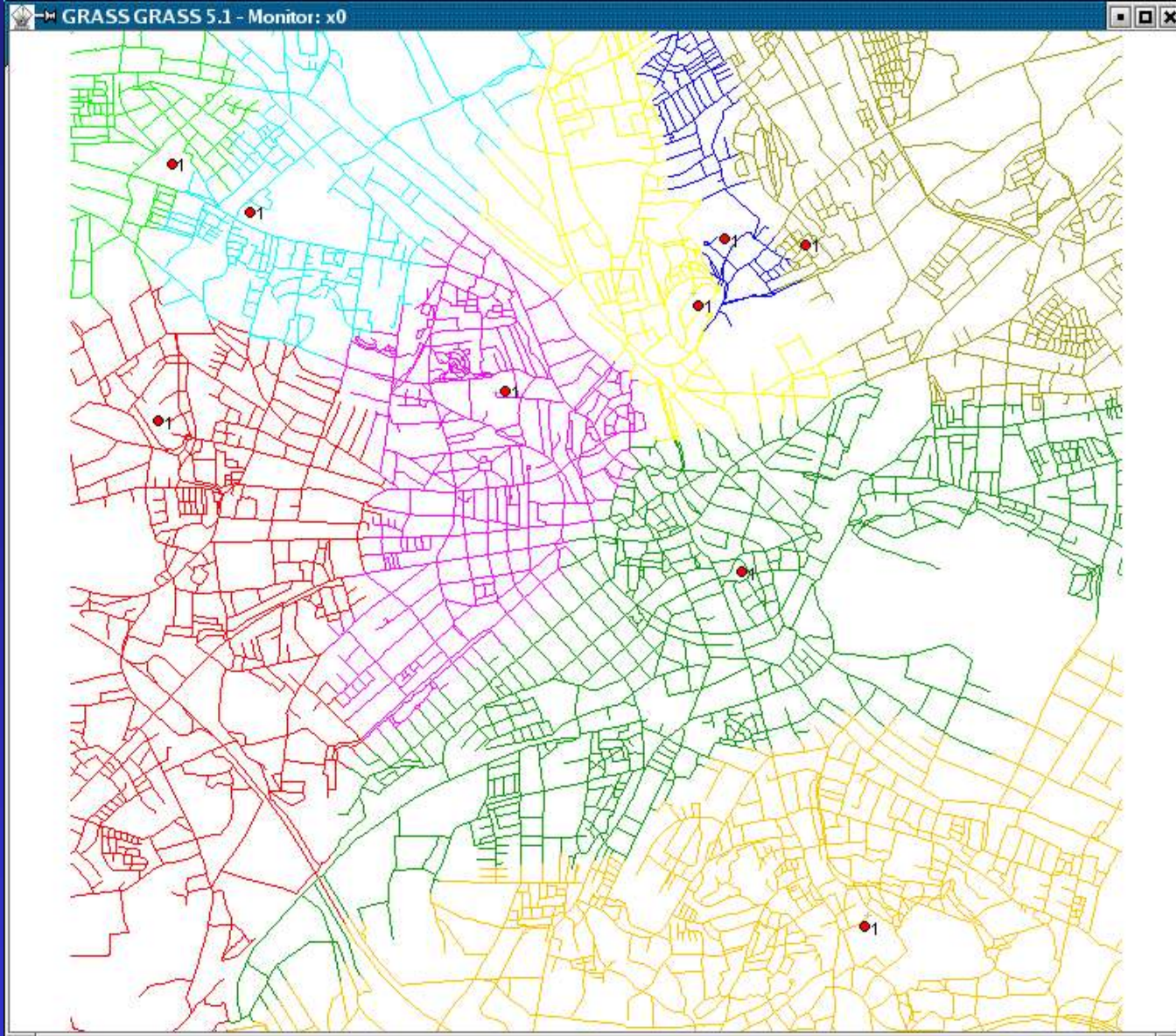
Buffer



Shortest path



Accessibility



Networking



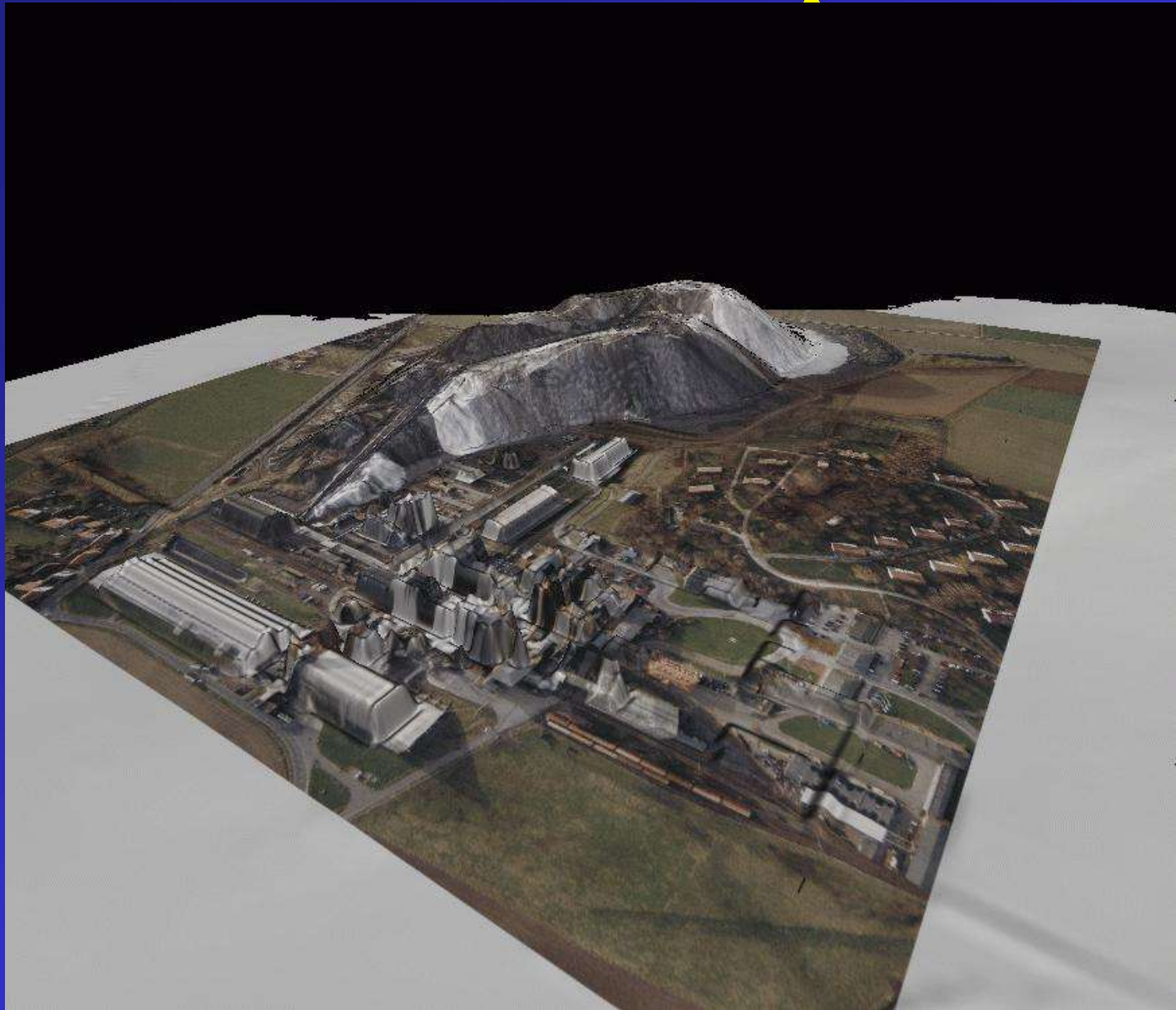
5.7.0-cvs - Monitor: x0

The diagram shows a cross-shaped road network with four main segments meeting at a central node labeled '+1/2'. The horizontal segment has two end nodes labeled '+1', and the vertical segment has two end nodes labeled '+2'. Red lines connect the top-left '+1' node to the top-right '+1' node, and the top-right '+1' node to the top-right '+2' node. Blue lines connect the bottom-left '+1' node to the bottom-right '+1' node, and the bottom-right '+1' node to the bottom-right '+2' node. A table is overlaid on the right side of the diagram.

	cat	silnice	typ	plocha
▶	1	1		0.000000
	2	2 b		0.000000
*				

Record 1 of 2

Ortofotomap



REPEATED TEXT COLUMN ON THE LEFT SIDE OF THE SLIDE.

REPEATED TEXT COLUMN ON THE RIGHT SIDE OF THE SLIDE.

Printing

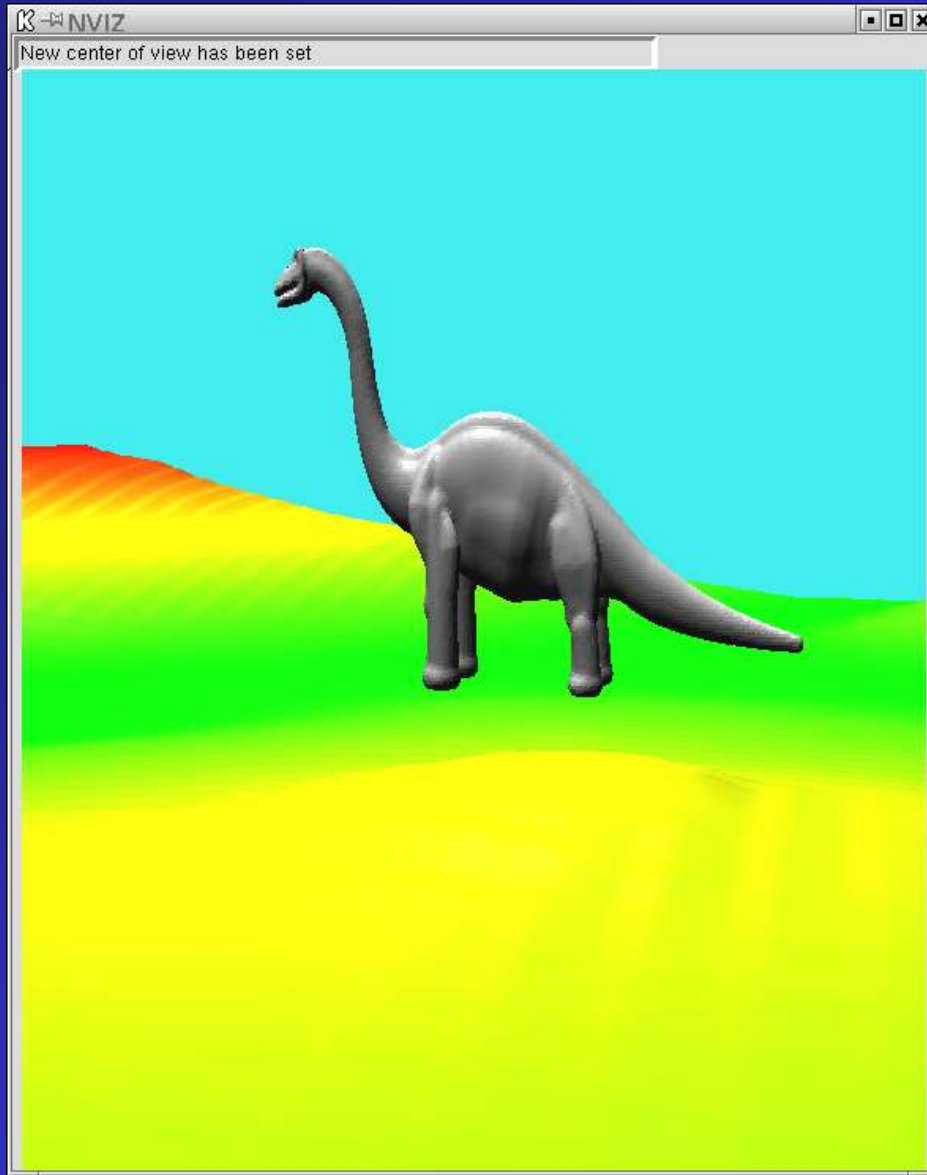


The screenshot illustrates the printing process in GRASS GIS 5.1. It features several windows:

- GRASS 5.1 Display Manager:** Shows a map with layers 'dem', 'les', 'silnice', and 'body'. The 'Vector name' is set to 'multi'. Display options include 'shape', 'category', 'topology', and 'direction'. Type options include 'point', 'line', 'boundary', 'centroid', and 'area'. Line and fill colors are set to red and black, respectively. The symbol is 'basic/circle' with a size of 5.
- pok.pdf:** A preview window showing the map at 100% zoom.
- Print / Plot (Display Manager - GRASS 5.1):** A dialog box for configuring the print job. It includes fields for 'Paper format' (a4), 'Custom width' (5), 'height' (5), and 'Printer' (lpr -P NE.PP.OVEST). It also has 'Browse' buttons for 'PS file', 'PDF file', and 'PNG file'.
- gv: Map layer = dem100 Mapset = ps.map:** A window showing the map with a 'Redisplay' button.
- file:/hardmnt/janacek0/ssi/blazek/adata/a51 devel/ps:** A window showing the map with a 'Redisplay' button.

The taskbar at the bottom shows the system tray with the time 2:44 and date 03/28/03.

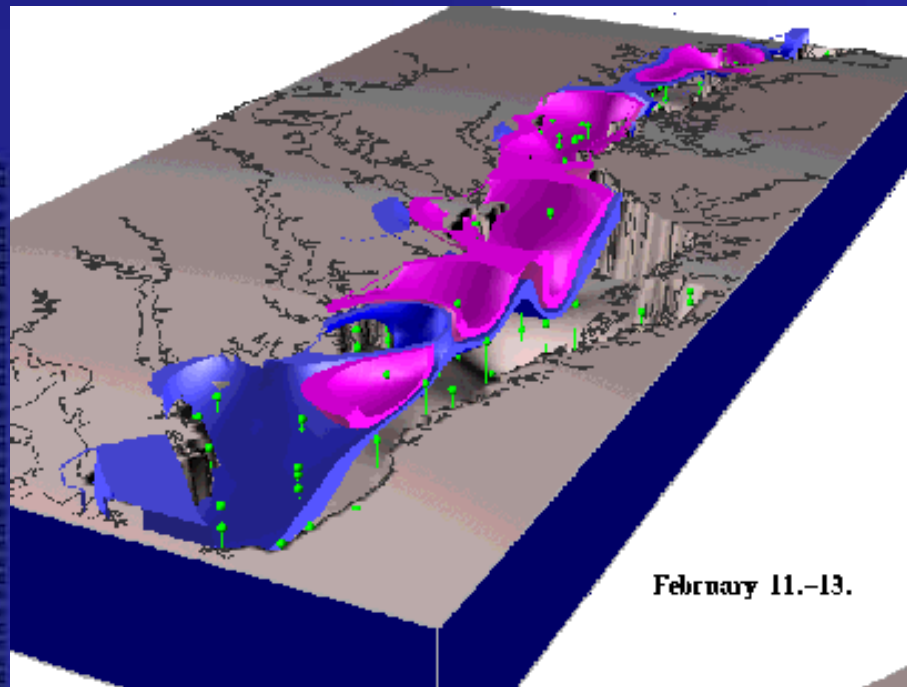
3D modelling



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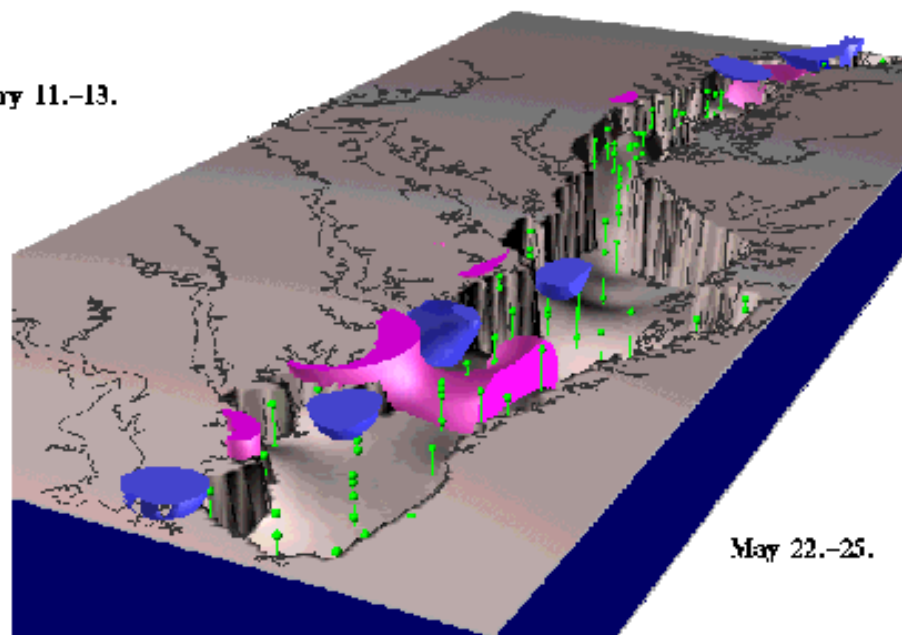
Interpolation in 4D



February 11.-13.

Predictive error of interpolation

- $(-0.1, -0.03)$
- $(0.03, 0.1)$
- sampling points



May 22.-25.

Helena Mizusawa 1993

3D grid (voxel) modeling



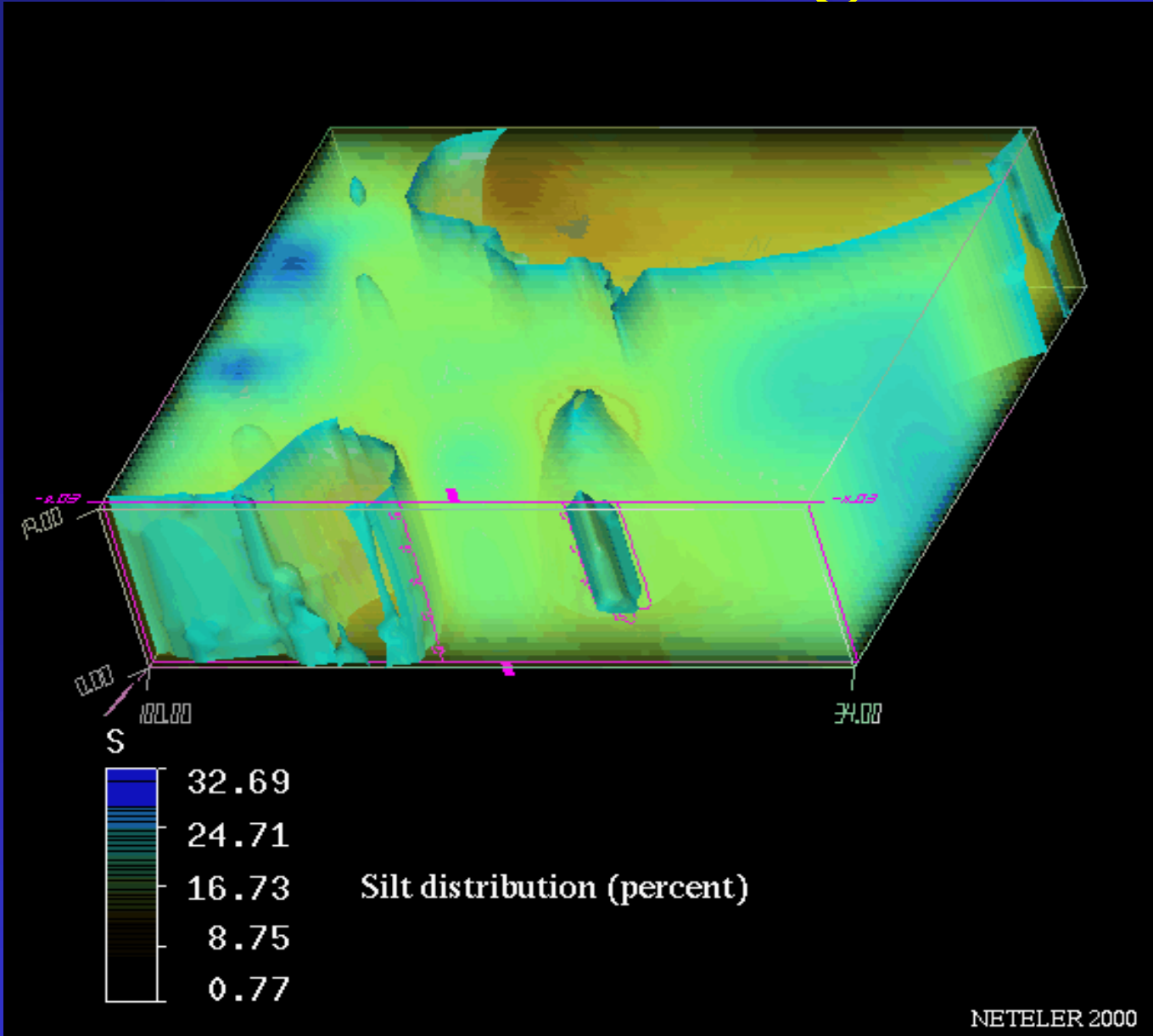
The screenshot displays the GRASS 5 grid3D example interface. On the left is a vertical color legend with 10 color swatches ranging from green at the top to red at the bottom. The main window shows a 3D visualization of a grid with a red surface. The 'Thresholds' panel on the right lists 10 thresholds, with 'Threshold 2' selected. The command window at the bottom shows the following text:

```
xtern
C toggles the c_flag
c clears the display (no thresholds)
w filename write gif file image
W filename dump raw image buffer file
I filename read raw image buffer file
d draw
D QUIT
h help
enter desired manipulations then press return
Q ? + - r d l L (xyz)# (XYZ)# S B(xyz)# E(xyz)# R g C o w W i h t T#
> r
Threshold 2 = 0.122222
- Rotation Mode -
1) Drag with LEFT mouse button to rotate
2) Drag right/left with MIDDLE mouse button to zoom in/out
3) Click RIGHT mouse button to exit Rotation Mode

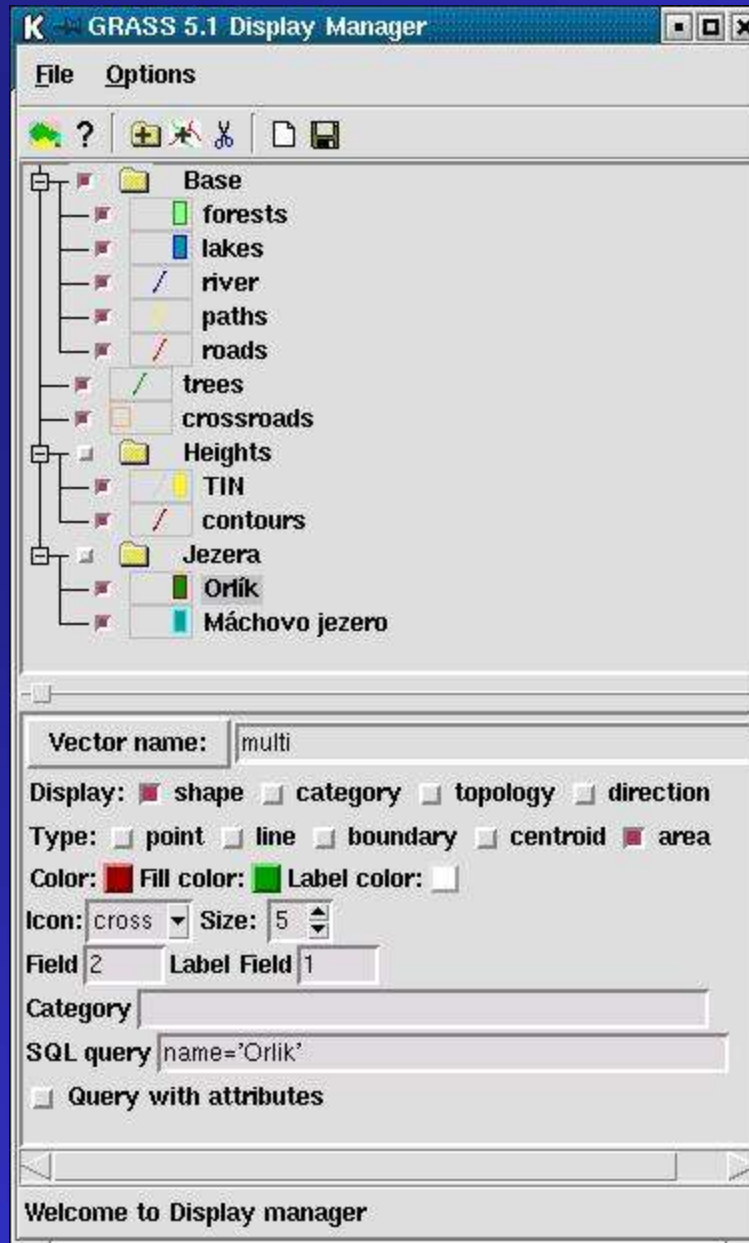
Threshold 1 = 0.000000
Threshold 2 = 0.122222
Threshold 3 = 0.244444
Threshold 3 = 0.244444
```

GRASS 5
grid3D
example

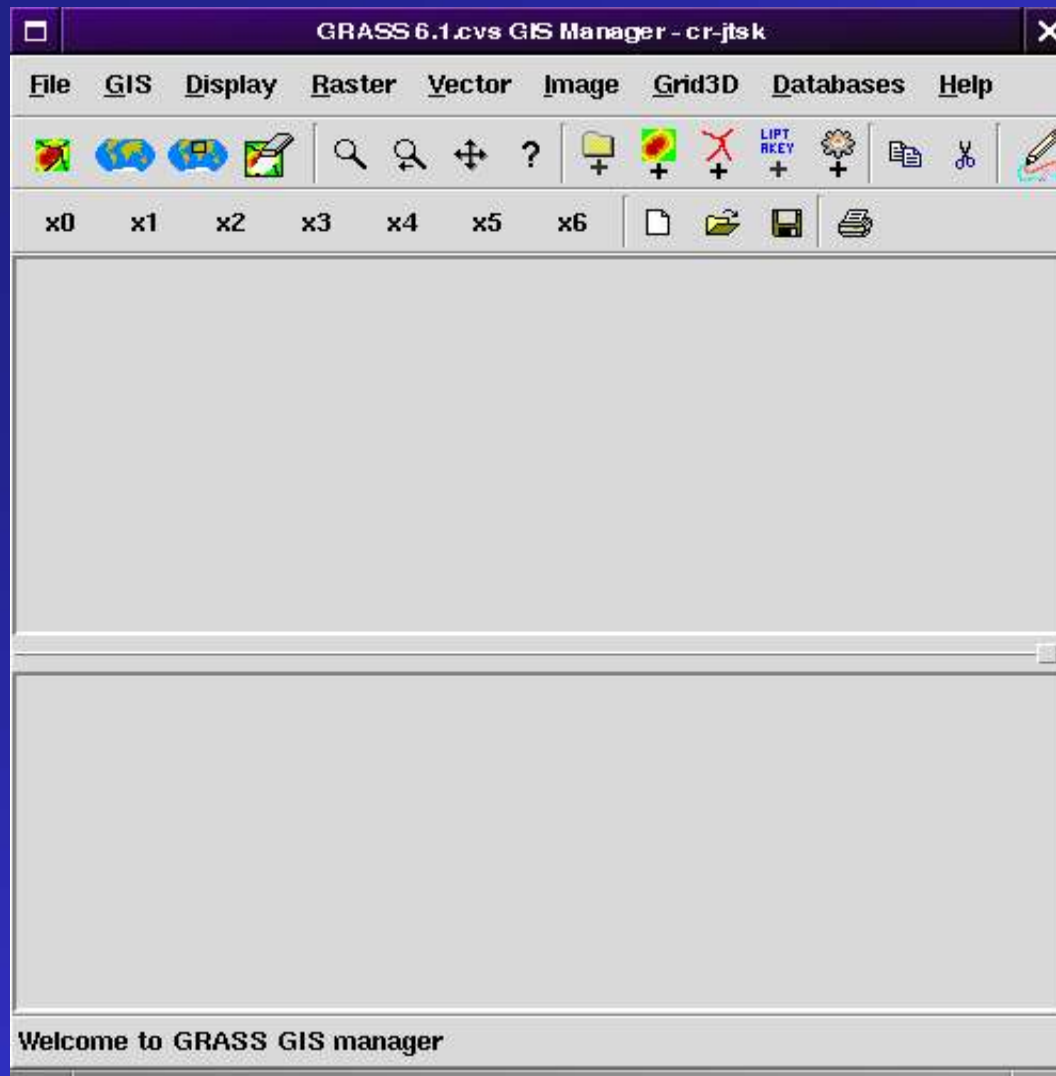
3D modelling



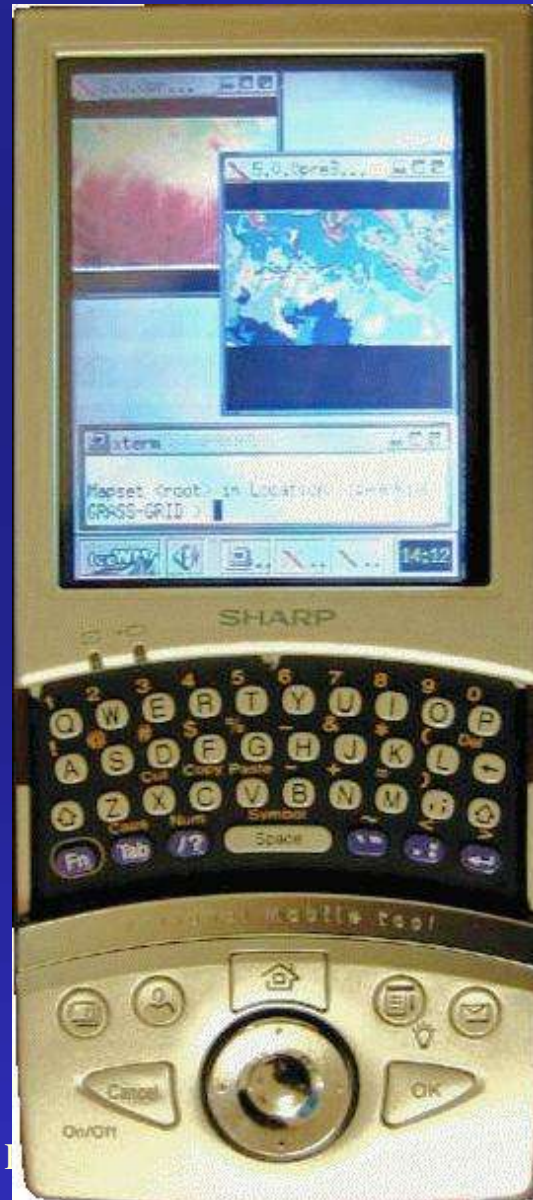
Display manager



Integrated GUI – since version 6



GRASS Pocket PC



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