



# Taiga



- Clark Labs (Clark University) since 1987 (Prof. Ron Eastman)
- Idrisi is used for GIS lessons at the Faculty of Forestry since 1996 (Prof. Vladimír Židek)
- Idrisi Resource Center since 1997 (together with the FF of the Technical Univ. Zvolen, Slovakia)
- 32-bit mainly raster oriented system, however supporting vector data format
- Image processing – mosaic, transformation, classification (including hyperspectral images)
- GIS analysis – distance and context operators, decision, statistical modules (neural network), time series, DMT → complex environmental modules
- Abu Abd Allah Muhammed al-Idrisi (1100 – 1166 n.l.)

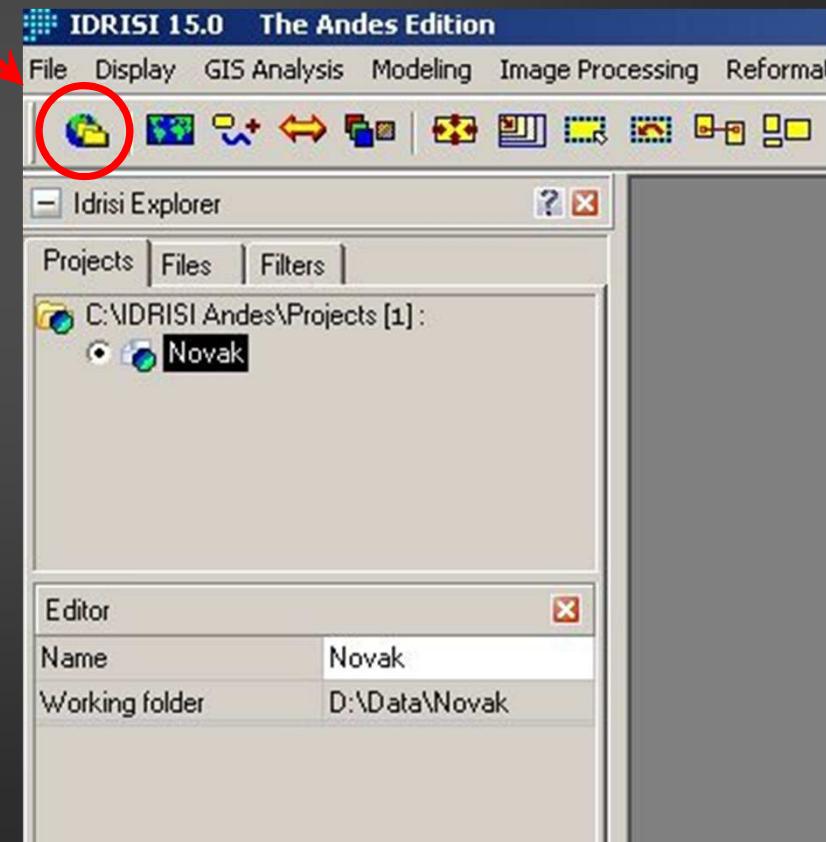


## IDRISI Environment: Data Path

- Setting New Project:
  - Open **Idrisi Explorer**
  - Fold **Projects**, right click and find the path to your directory **D:\ NAME**
  
- You can change the name of your project in the **Editor** (low part of the fold **Projects**)
- Fold **Files** shows data and files which contains the project
- Fold **Filters** enable to filtrate files which can be seen within the fold **Files**

Copy data from:

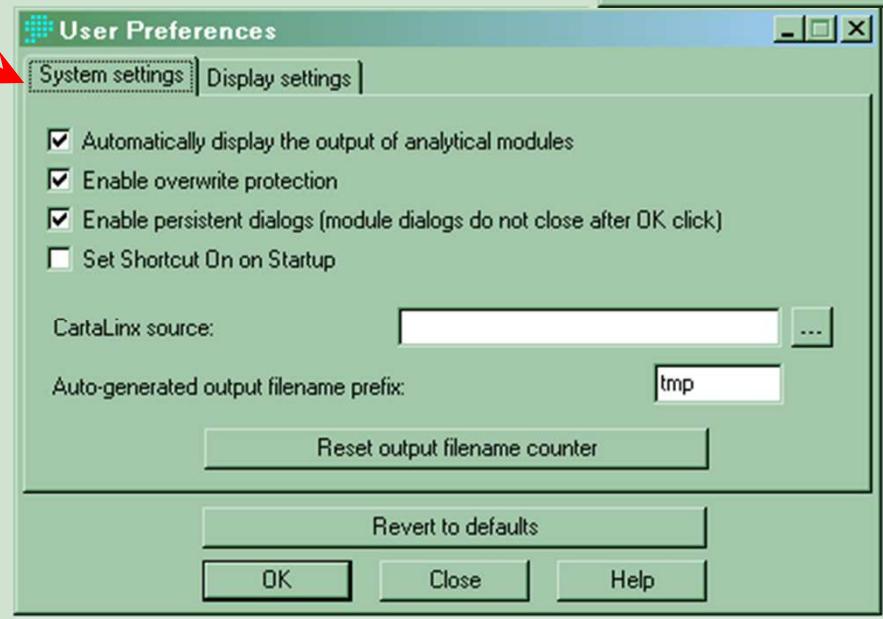
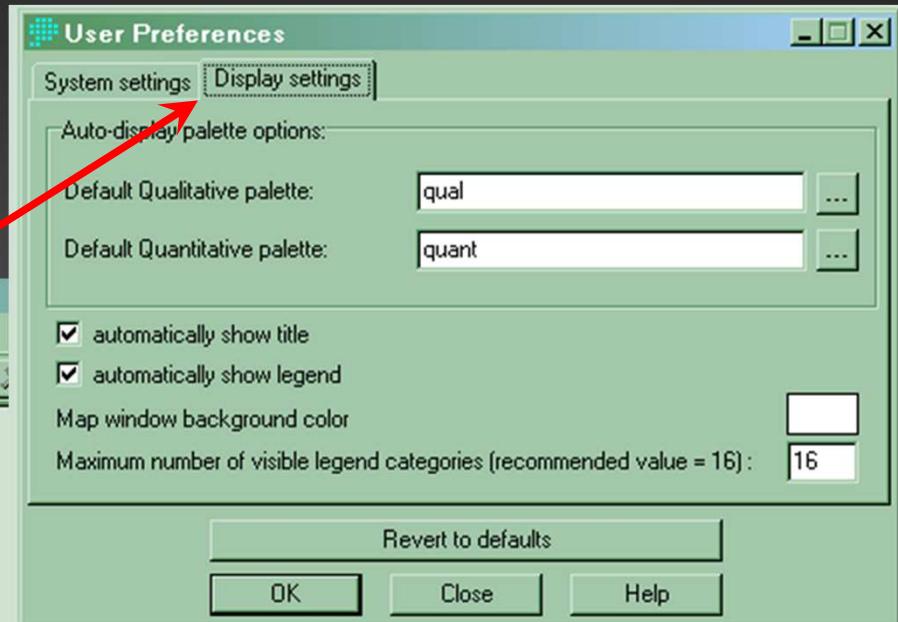
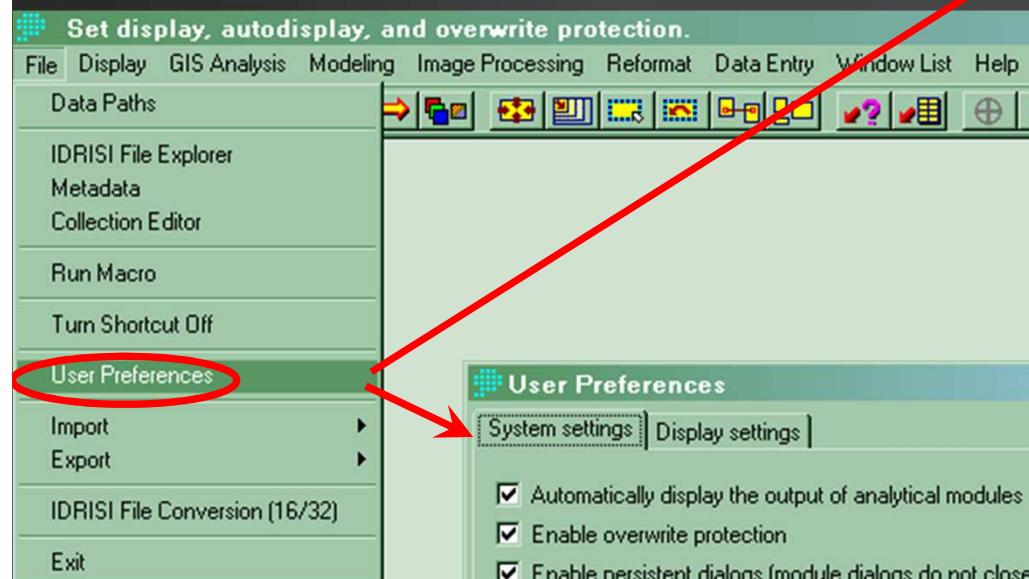
- **\yain\student\GIS\_Fundamentals\Using Idrisi**
- To:
- **D:\ ... (your directory)**





# IDRISI Environment: User Preferences

- File → User Preferences
  - System settings
  - Display settings



Taiga Tutorial Part 1:  
Using IDRISI



## IDRISI Environment: Dialog Boxes, Pick List, Moduls

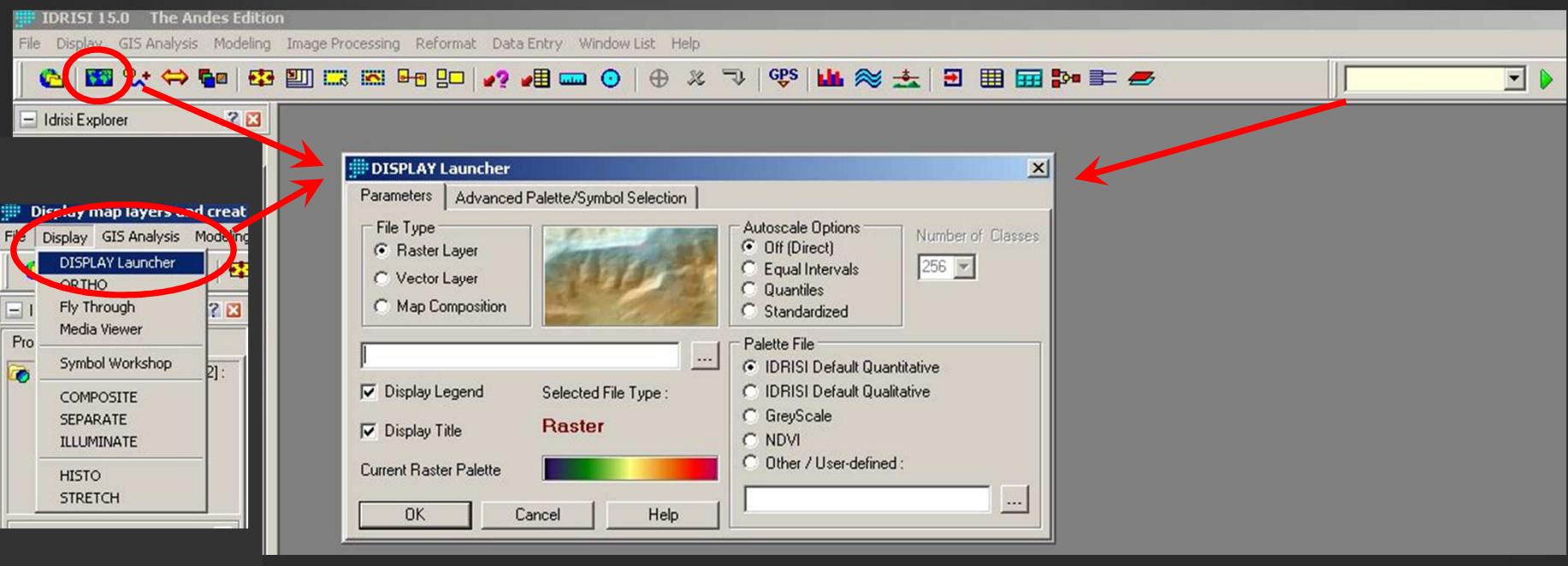
- modules (approx. 200) – icon, menu, shortcut (on/off)
- pick list



DISPLAY

SIERRADEM

- Idrisi Explorer: double click or right click + menu





## IDRISI Environment: The Status and Tool Bars

- RF = representative fraction = map scale

- column

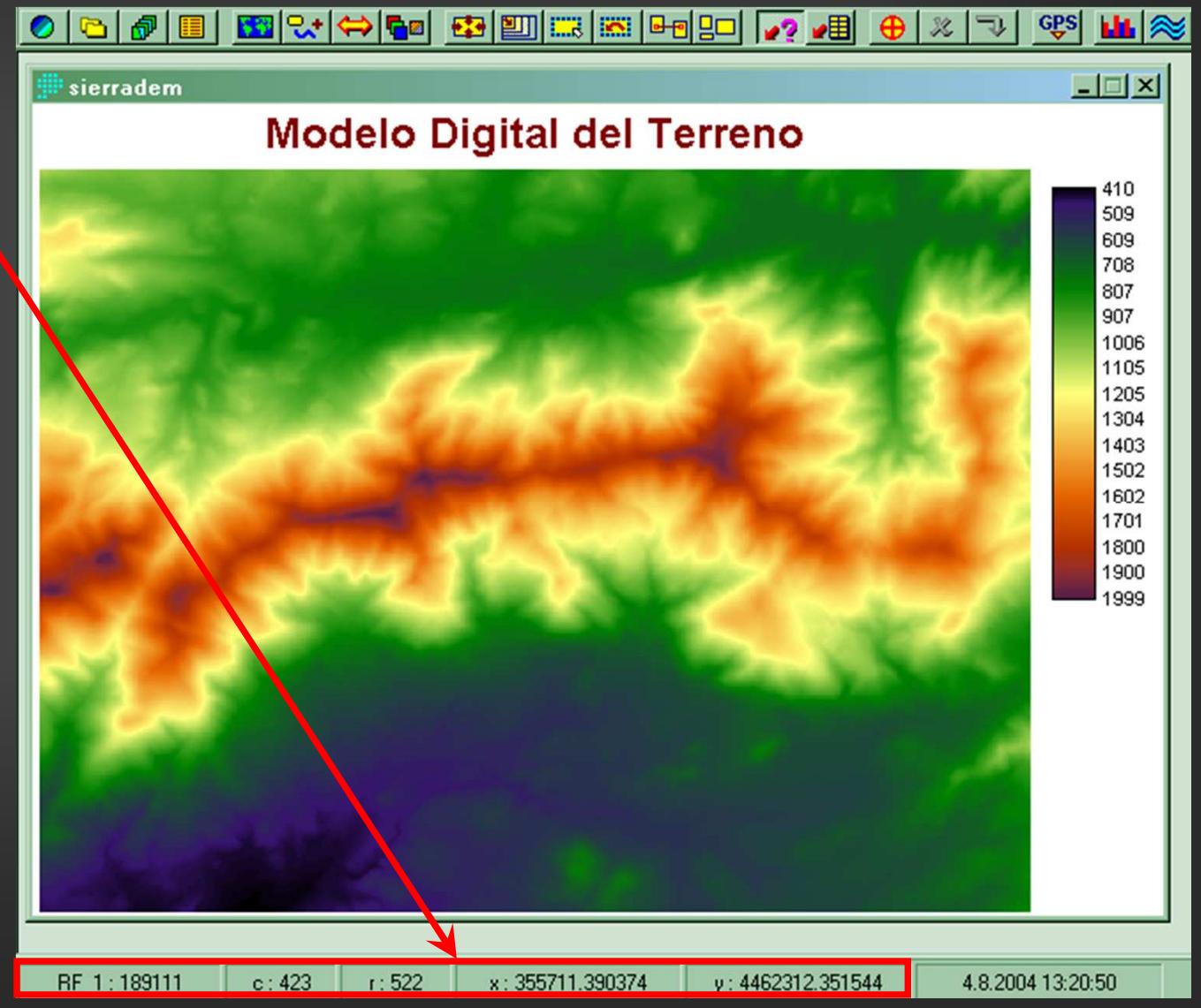
- row

- X coordinate
- Y coordinate

- zoom

Page Up = zoom out

Page Down = zoom in





# IDRISI Environment: Composer



DISPLAY

SIERRADEM



Add Layer

CONTOURS

The screenshot shows the IDRISI Environment interface with three 'Layer Properties' dialog boxes and a 'Composer' panel.

**Layer Properties Dialogs:**

- sierradem (Left):** Shows 'Display Parameters' tab selected. Under 'Raster Layer Transparency Options', 'Opaque' is selected. Under 'Drawing Sort Order (based on value)', 'Descending' is selected. Under 'Scale/Visibility Options', it says 'Layer is visible at scales ranging from 1:0 to 1:100000000000'. Buttons: OK, Close, Help.
- sierradem (Middle):** Shows 'Properties' tab selected. Contains detailed layer information:
  - Layer Name: sierradem
  - Layer Type: Raster
  - Data Type: Integer
  - Ref System: utm-30n
  - Ref Units: meters
  - Min X: 343000
  - Max X: 371020
  - Min Y: 4457000
  - Max Y: 4478000
  - Columns: 934
  - Rows: 700
  - Min Value: 410
  - Max Value: 1999
  - Value Units: mButtons: View Metadata, Histogram, OK, Close, Help.
- sierradem (Right):** Shows 'Display Parameters' tab selected. Contains:
  - Autoscaling Options: 'Equal Intervals' is selected.
  - Number of Classes: 256
  - Display Min: 438
  - Display Max: 1834
  - Palette File: Quant
  - Advanced Palette/Symbol Selection
  - Buttons: Apply, Revert, Save, OK, Close, Help.

**Composer Panel:**

- Shows two layers added: 'sierradem' and 'contour'.
- Contains buttons: Add Layer, Remove Layer, Layer Properties, Map Properties, Feature Properties, Save, Print.
- Contains a legend with color swatches for different layers.



## Display: Displaying Map Layers

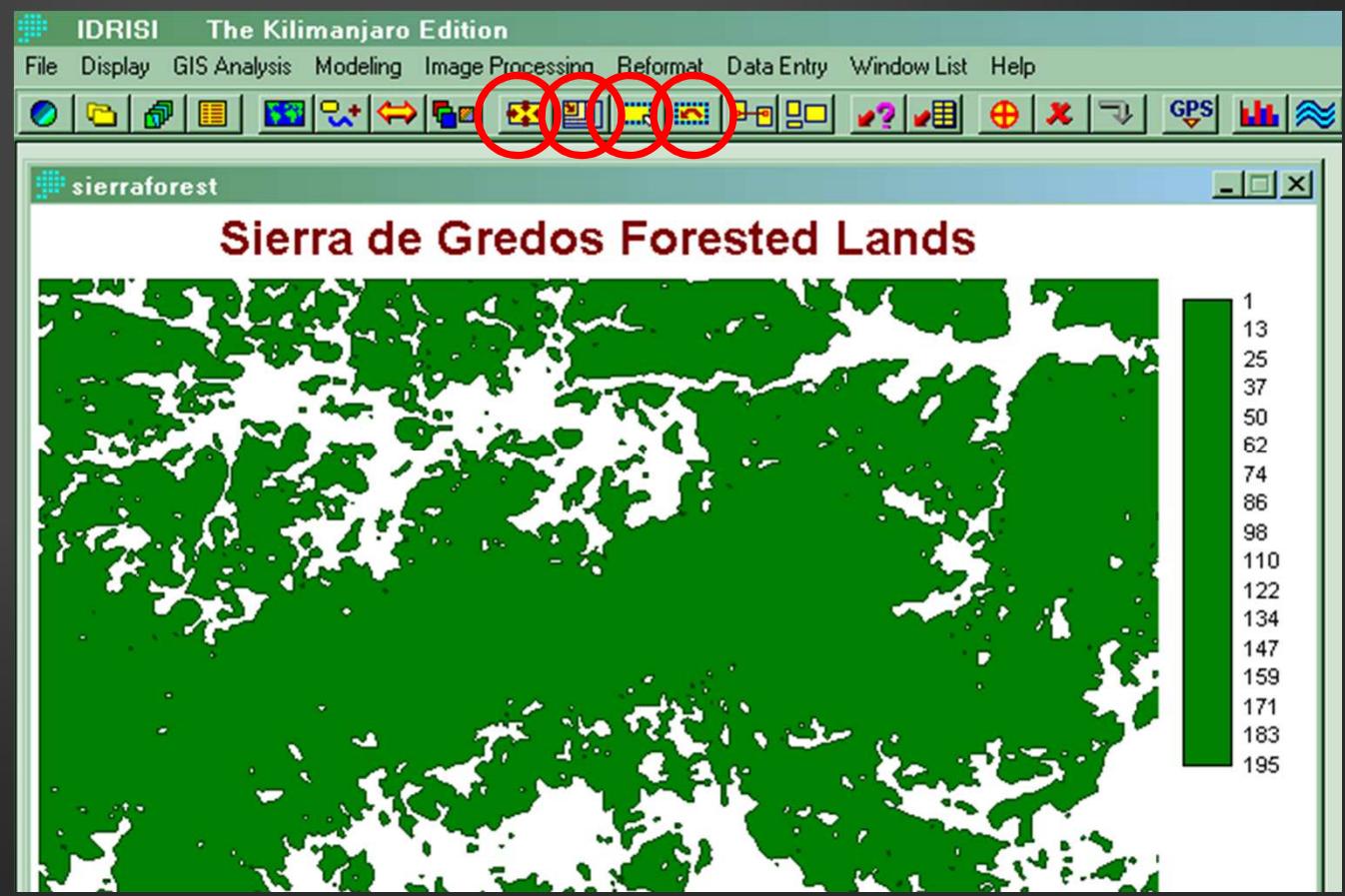


DISPLAY

SIERRAFOREST

(Forest)

- fit map window
- maximize display
- zoom window
- restore original window





## Display: Displaying Map Layers

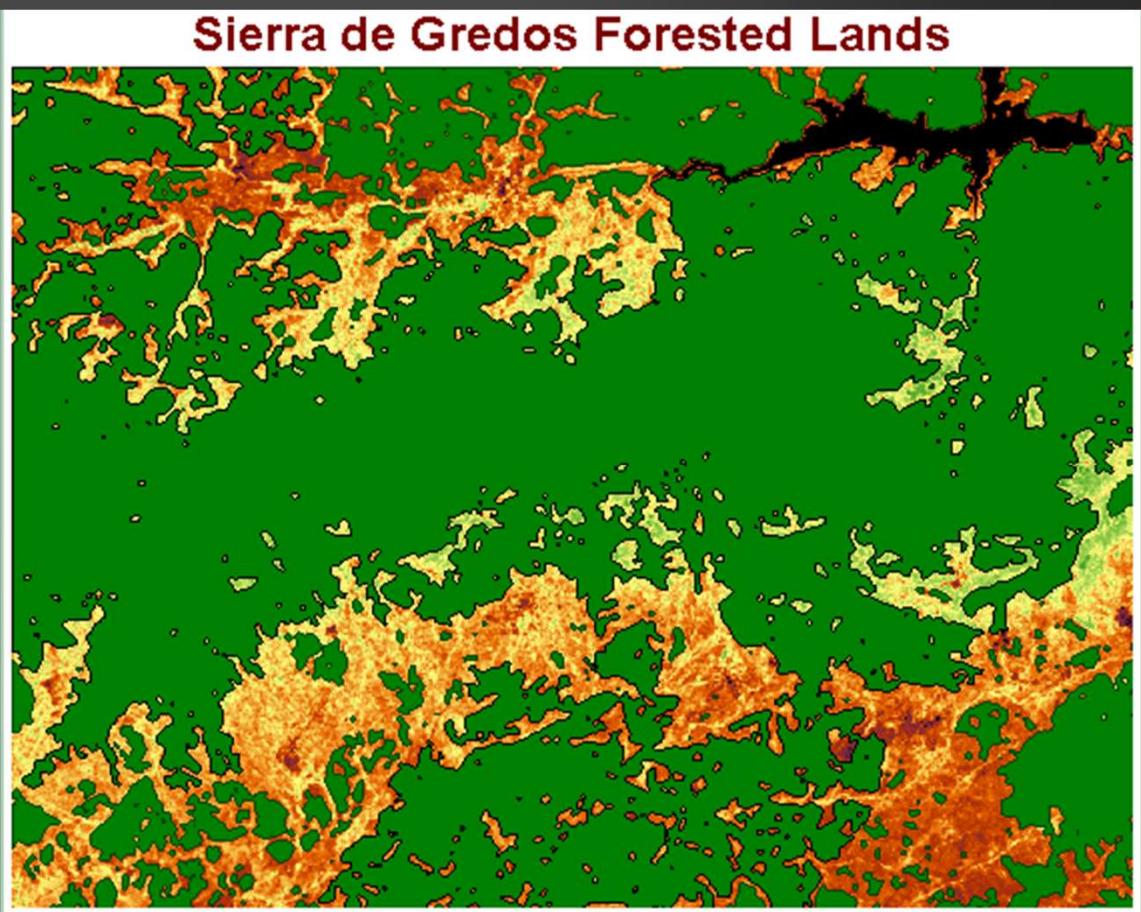


Add Layer

SIERRANDVI

(NDVI)

- check mark
- position of layers
- change palette/symbol

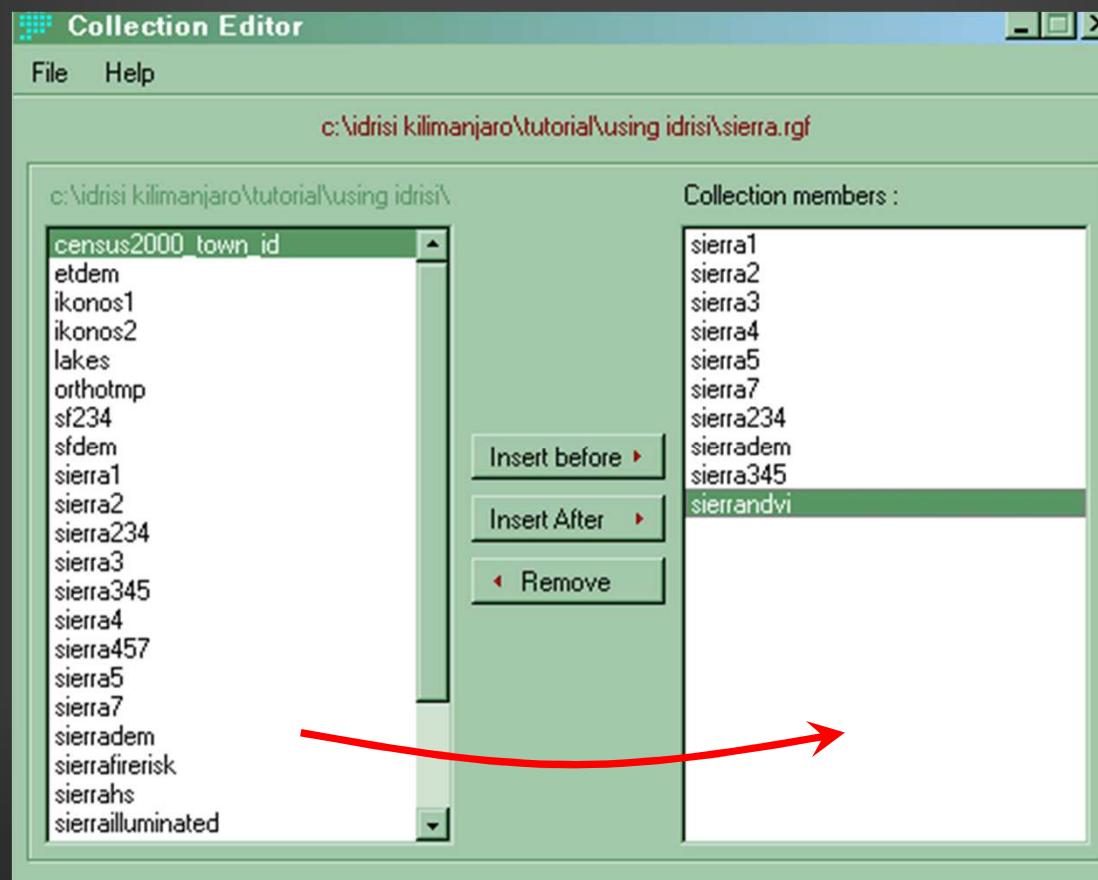




## Display: Raster Layer Collections



Collection Editor → File → New → SIERRA2  
(SIERRA1, SIERRA2, SIERRA3, SIERRA4, SIERRA5 , SIERRA7,  
SIERRA234, SIERRA345, SIERRADEM, SIERRANDVI)





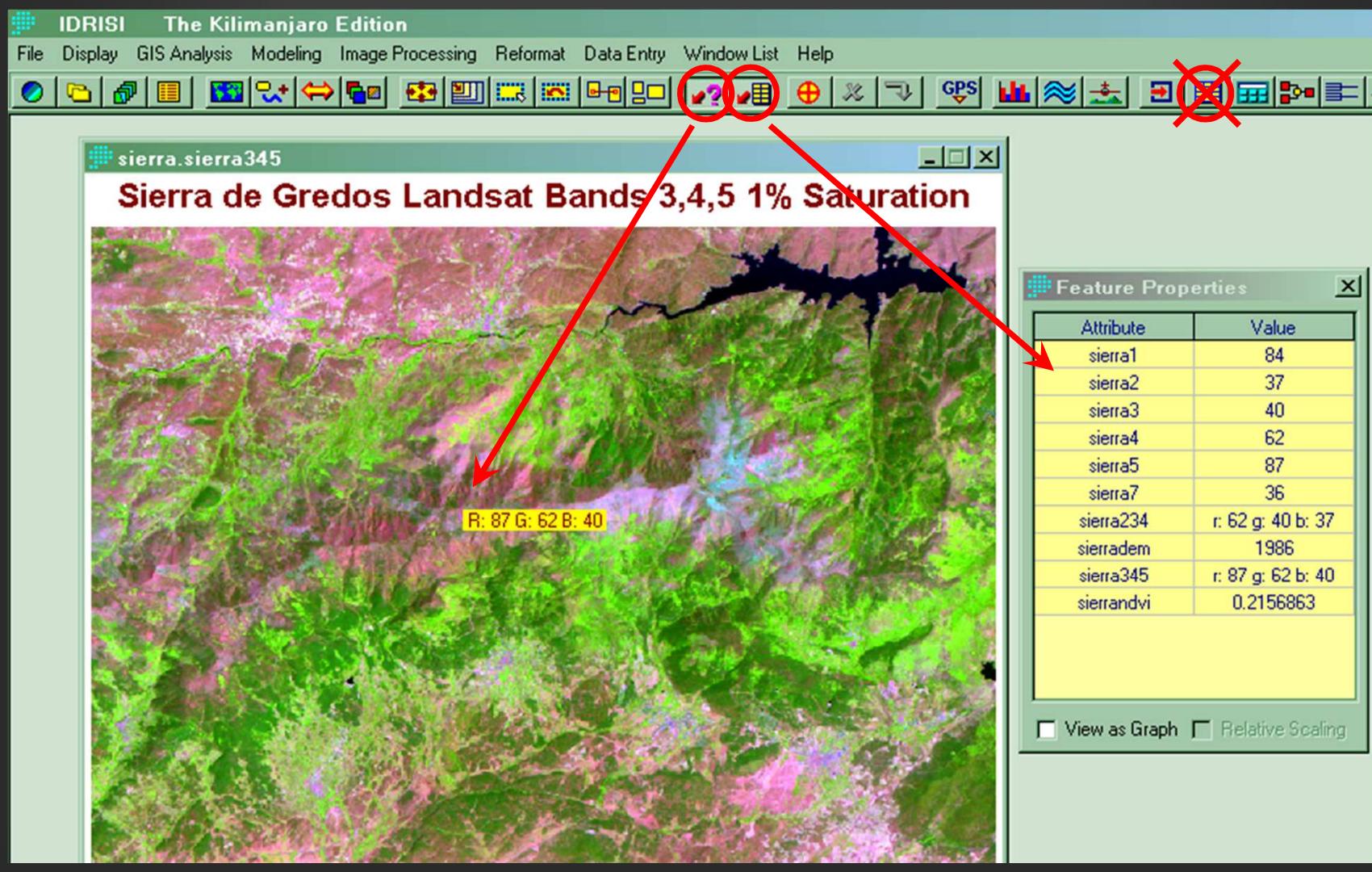
# Display: Raster Layer Collections



DISPLAY +

SIERRA 2

SIERRA345





## Display: Collection Linked Zoom



DISPLAY +



SIERRADEM



DISPLAY +



SIERRA345



DISPLAY +



SIERRANDVI (NDVI)





## Display: Blends



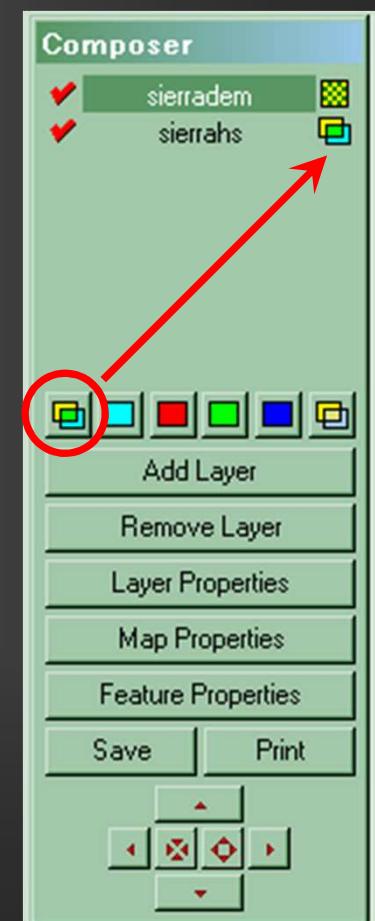
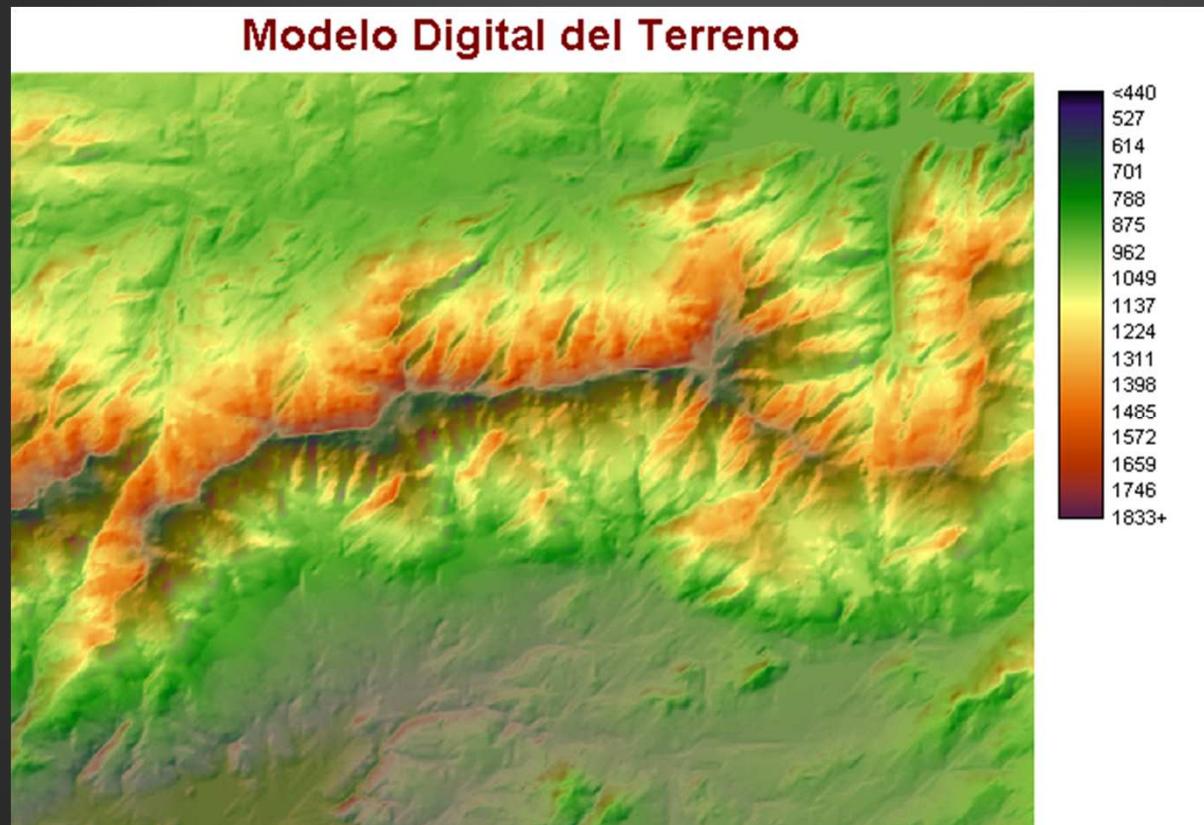
DISPLAY SIERRADEM



Module HILLSHADE SIERRADEM SIERRAHS



Add Layer SIERRAHS





## Display: Transparency



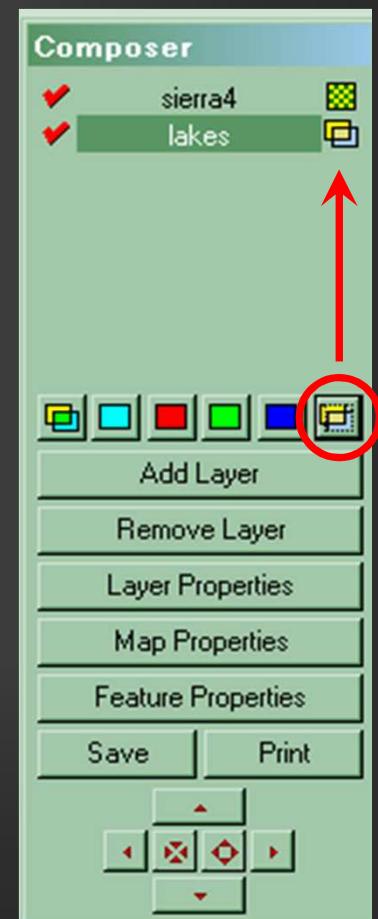
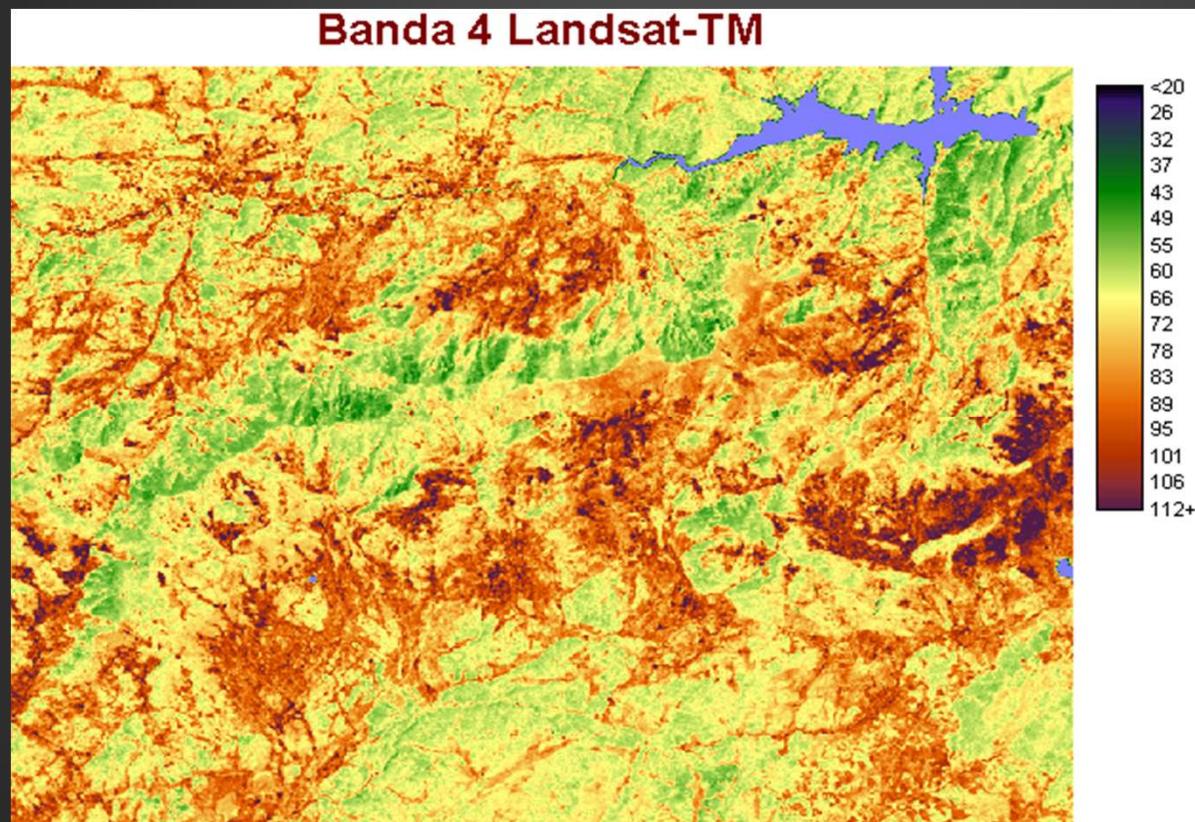
DISPLAY SIERRA4



RECLASS SIERRA4 1 0 30 0 30 999 LAKES



Add Layer LAKES (UniformBlue3)





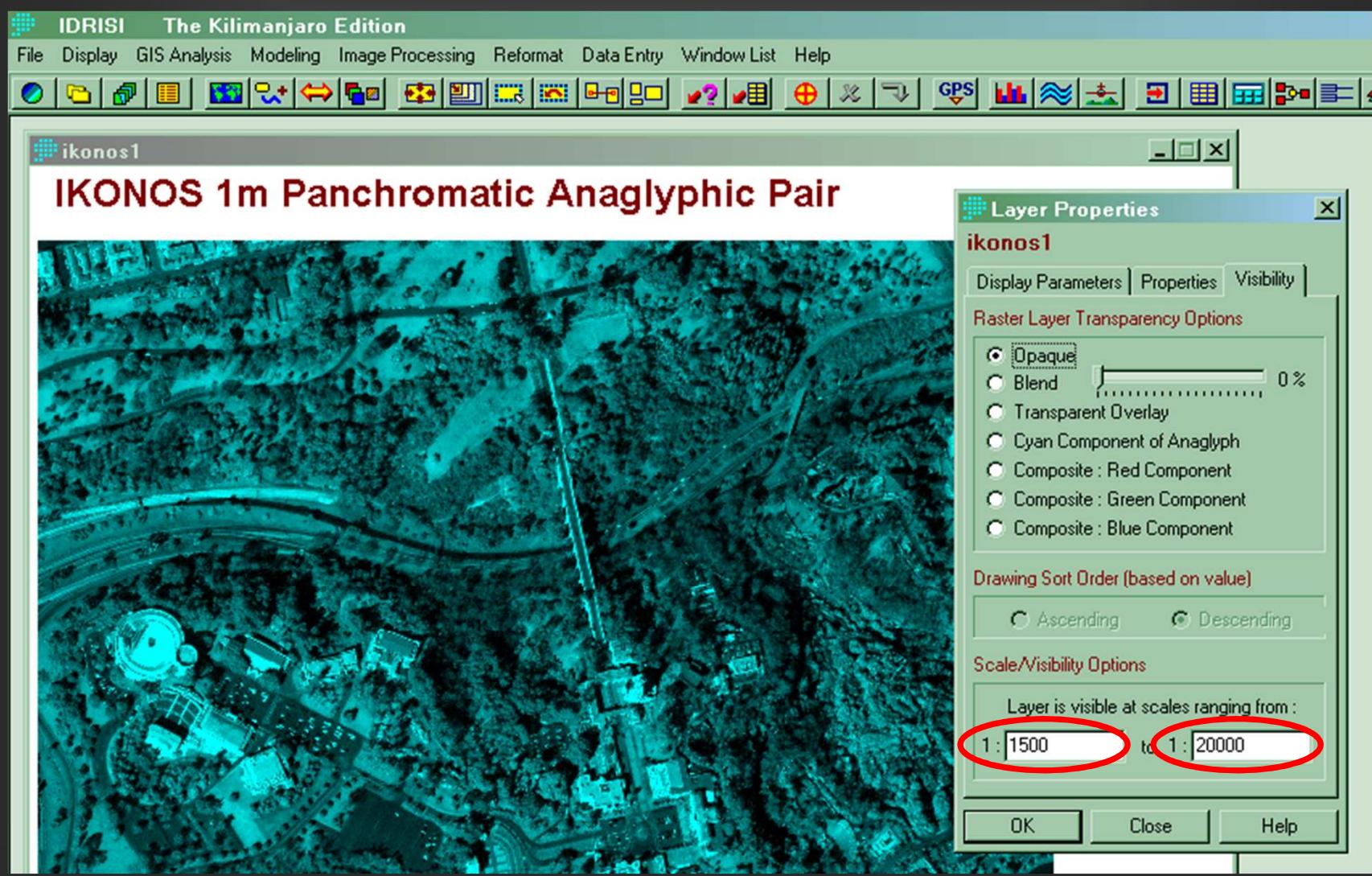
# Display: Layer Visibility



DISPLAY

IKONOS1

(UnipolarBcyan)





## Display: Composites



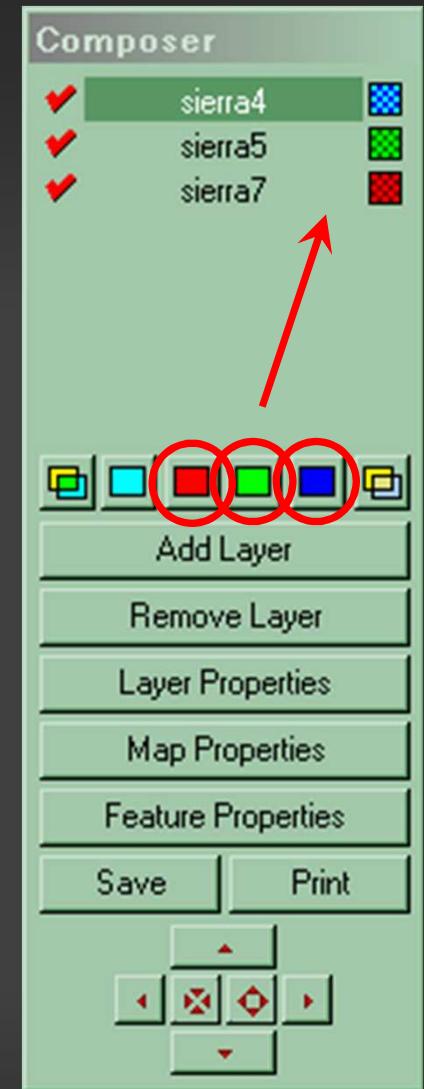
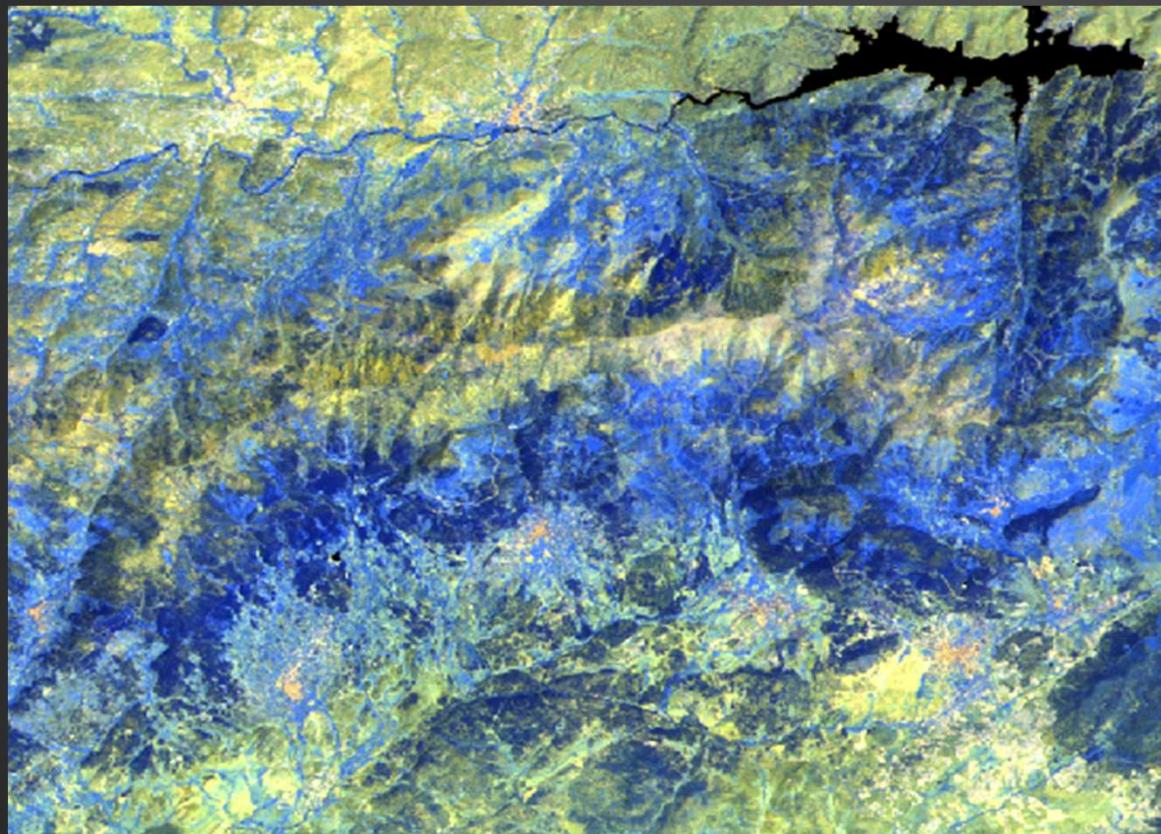
DISPLAY **SIERRA4** (GreyScale)



Add Layer **SIERRA5** (GreyScale)



Add Layer **SIERRA7** (GreyScale)



- COMPOSITE
- SEPARATE



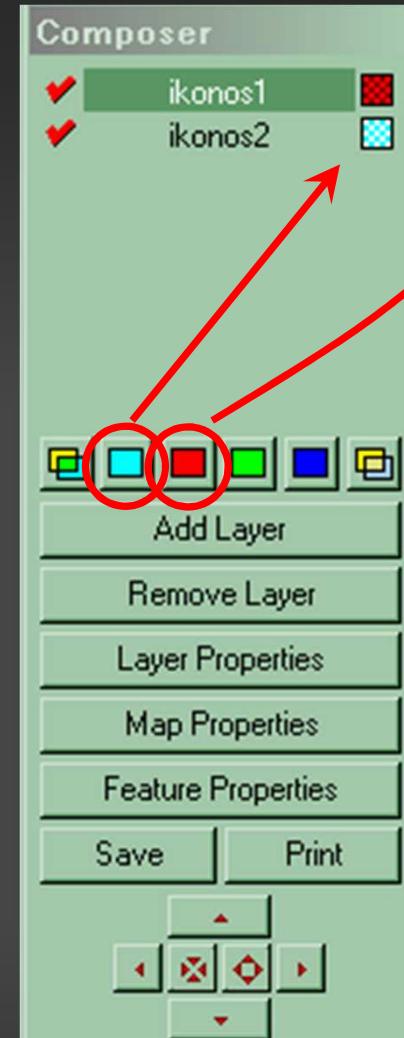
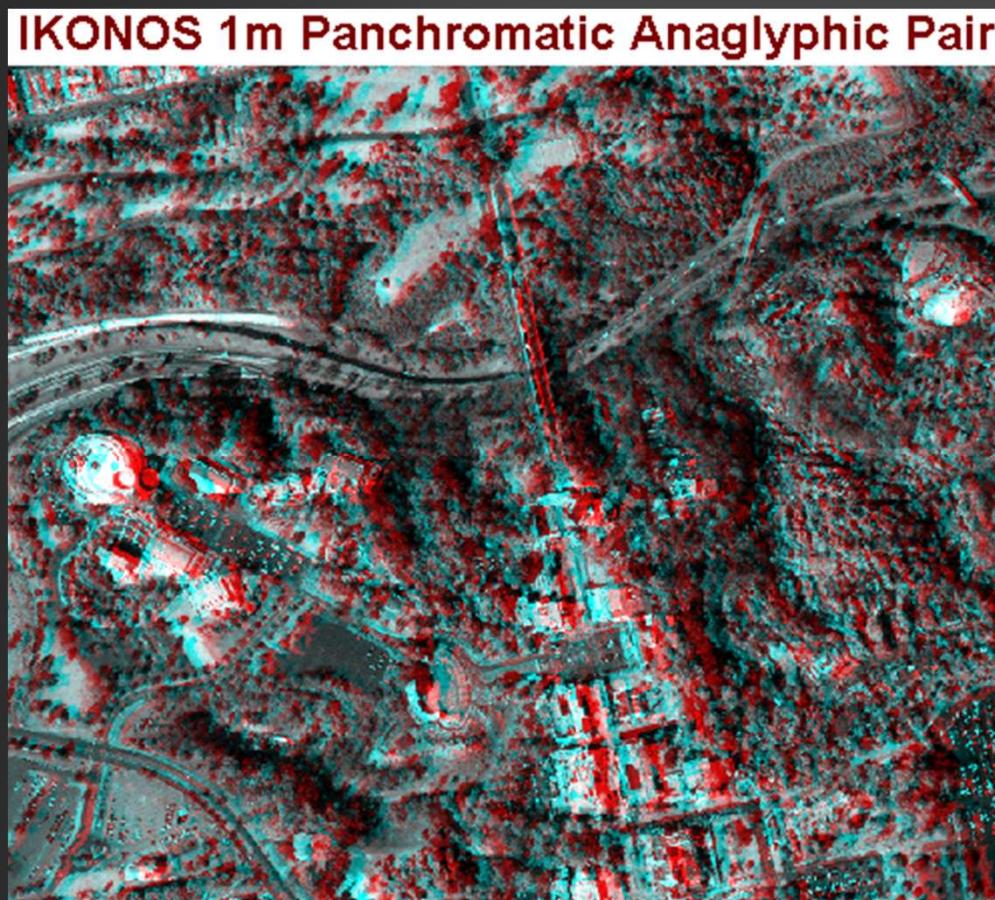
## Display: Anaglyphs



DISPLAY **IKONOS1** (GreyScale)



Add Layer **IKONOS2** (GreyScale)



- 3D glasses
- RED = left eye
- CYAN = right eye



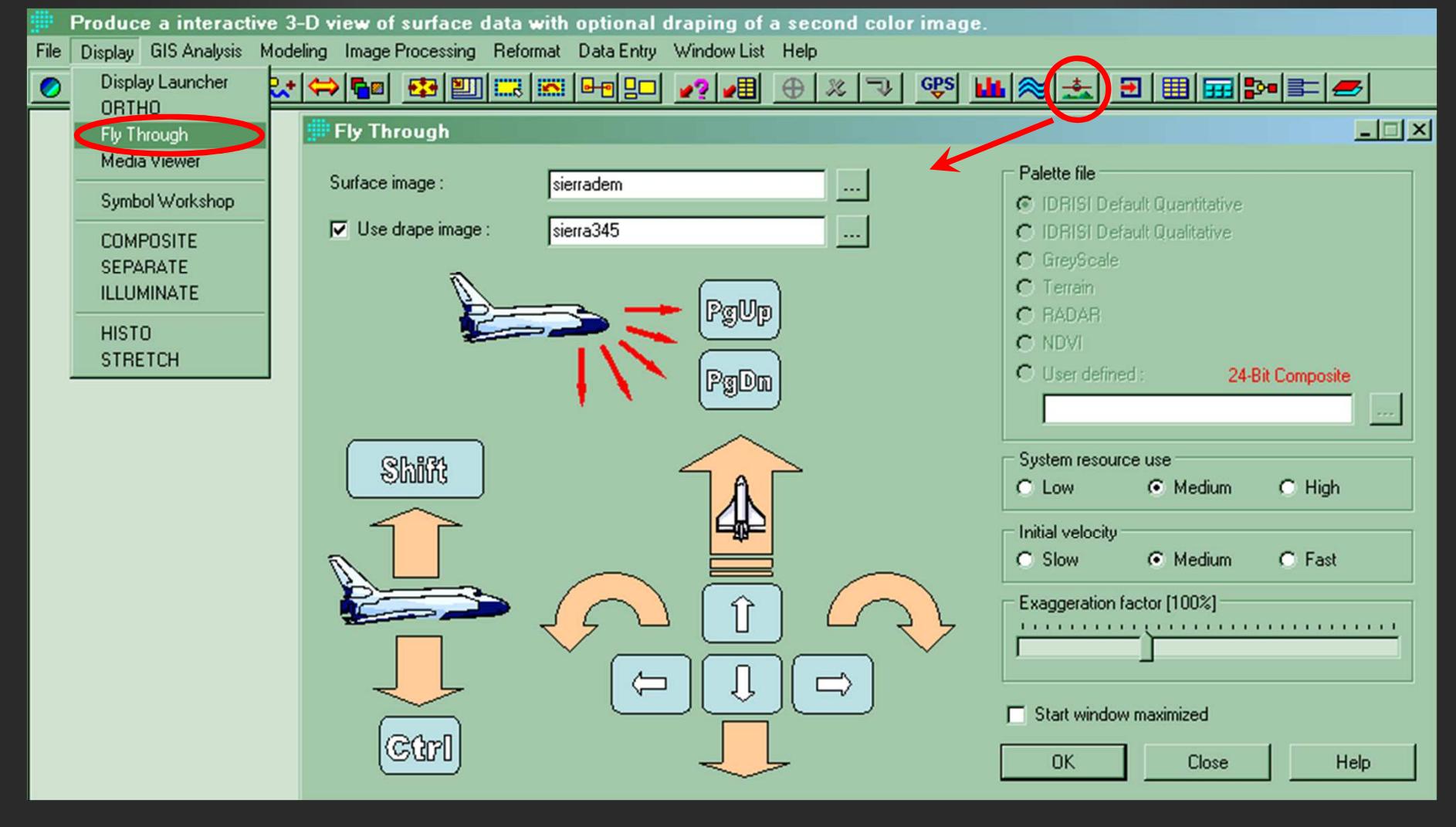
# Display: Surface – Fly Through



Fly Through

SIERRADEM

SIERRA345





## Display: Surface – Orthographic perspective



DISPLAY

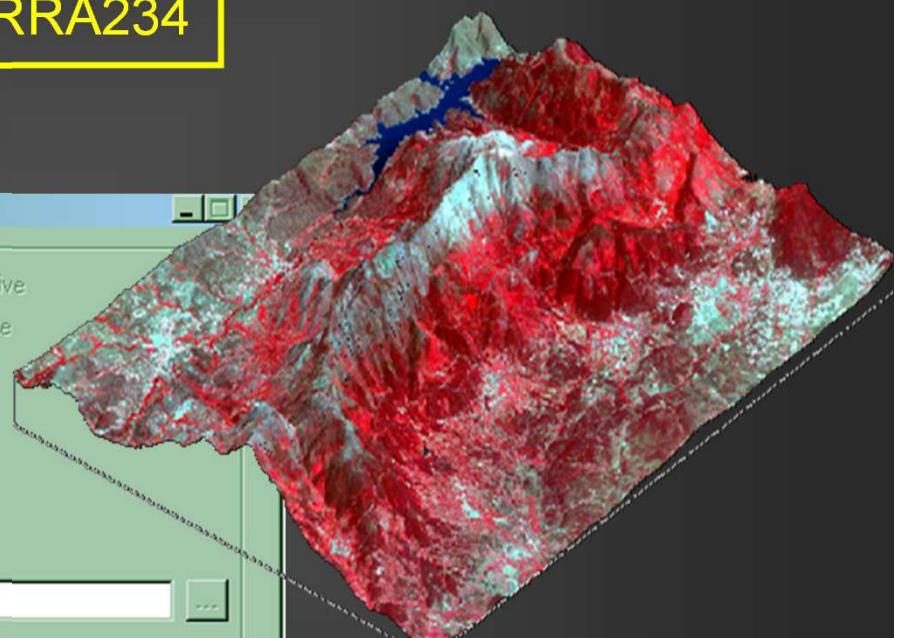
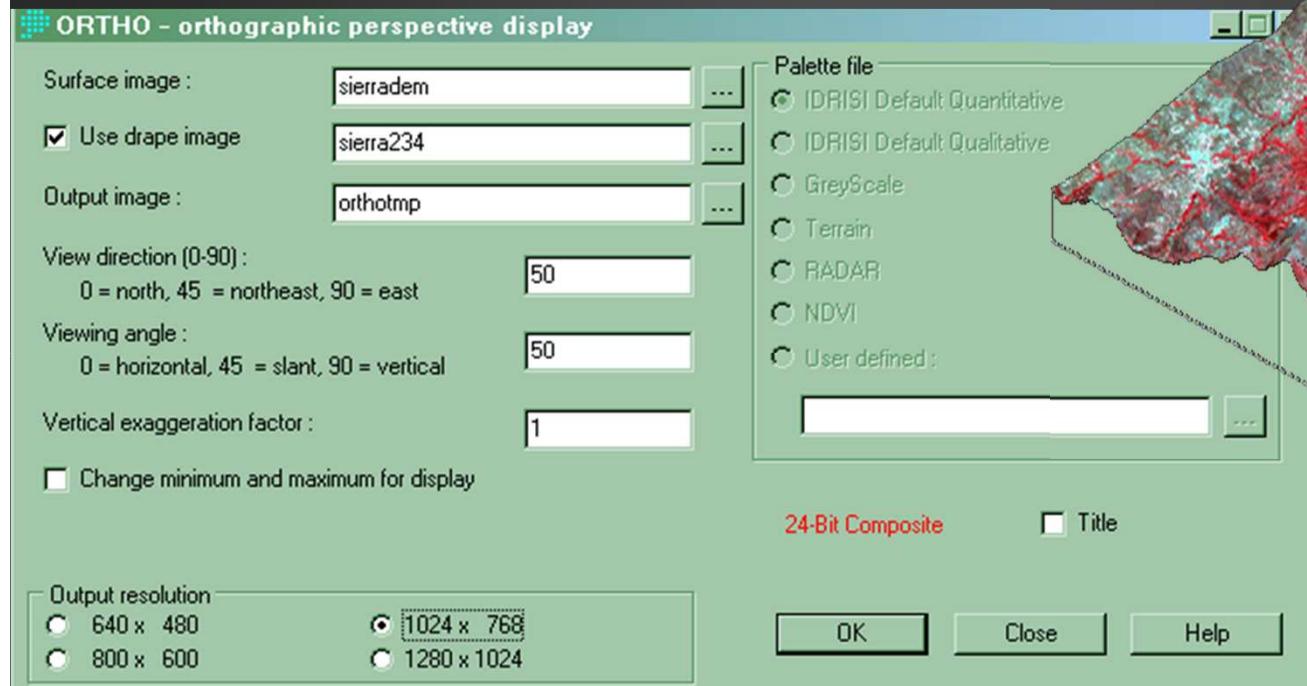
SIERRA234



ORTHO

SIERRADEM

SIERRA234





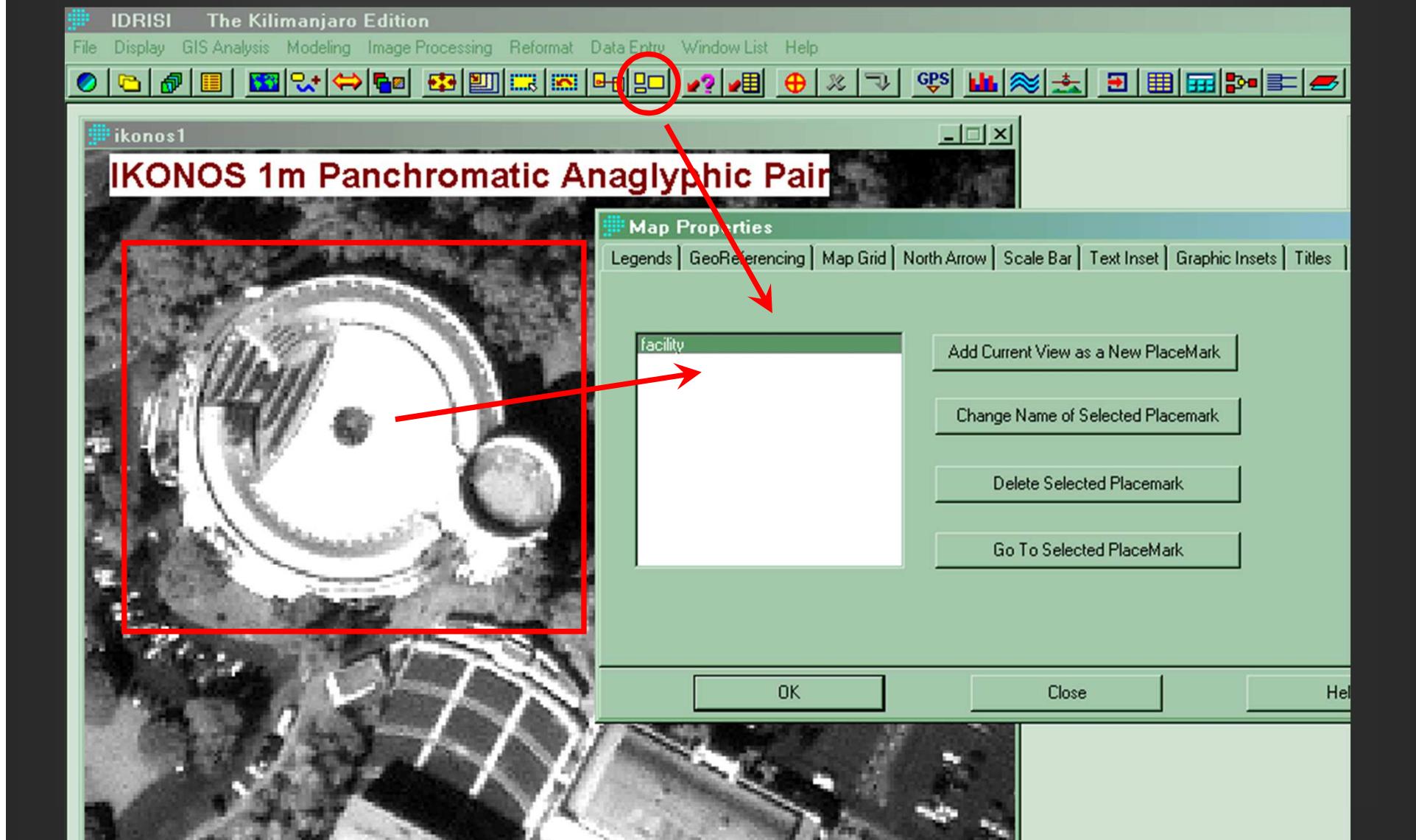
# Display: Placemarks



DISPLAY

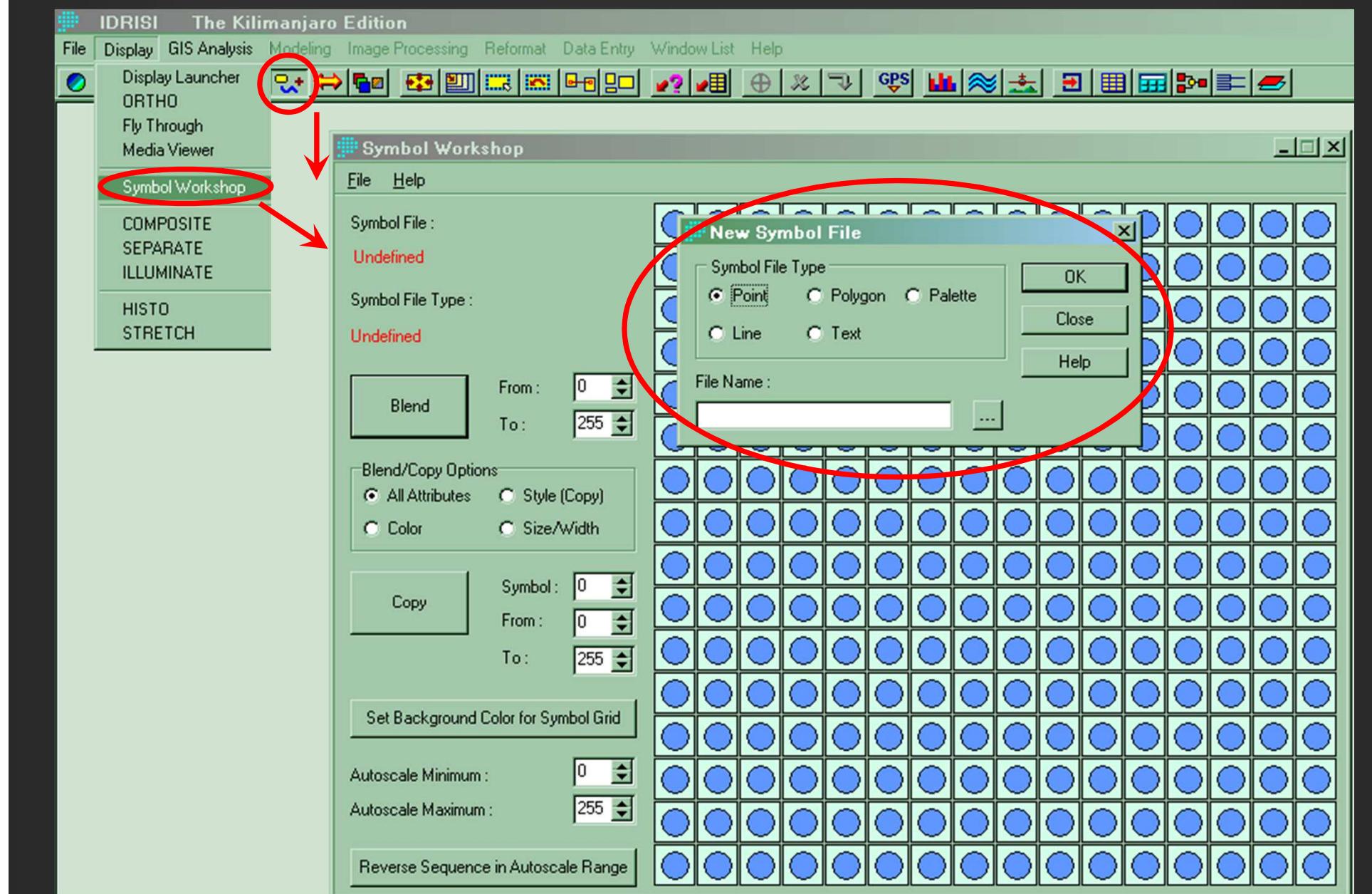
IKONOS1

(Greyscale)





# Symbol Files





# Data Structures



File → IDRISI File Explorer → View Metadata  
(Composer → Layer Properties → Properties → View Metadata)

The image displays three separate windows of the IDRISI File Explorer application, each showing the properties of a different file: 'landuse.rdc', 'landuse.rdc', and 'landuse.rdc'. The left window shows general properties like file format (IDRISI Raster A.1), title (LANDUSE "SLP Křtiny"), data type (integer), and file type (binary). It also lists columns (3582), rows (3322), reference system (plane), and unit distance (m). The middle window shows a legend table with 10 entries, each with a code (1-10) and caption (Conifers 1-3, Broadleaves 1-3, Urban, Water, Meadows, Fields, Roads). The right window shows comments, consistency, completeness, and lineage information.

**Metadata : c:\gis\slp\_kritiny\idrisi\landuse.rdc**

File Tools Help

File types:

- Raster files (selected)
- Vector files
- Attribute files
- Reference files

Properties Legend Notes

File format: IDRISI Raster A.1

Title: LANDUSE "SLP Křtiny"

Data type: integer

File type: binary

Columns: 3582

Rows: 3322

Reference system: plane

Reference units: m

Unit distance: 1

Minimum X: -59567.5

Maximum X: -581807.5

Minimum Y: -1159437.5

Maximum Y: -1142937.5

Positional error: unknown

Resolution: unknown

Minimum value: 0

Maximum value: 13

**Metadata : c:\gis\slp\_kritiny\idrisi\landuse.rdc**

File Tools Help

File types:

- Raster files (selected)
- Vector files
- Attribute files
- Reference files

Properties Legend Notes

Code Caption

1	Conifers 1
2	Conifers 2
3	Conifers 3
4	Broadleaves 1
5	Broadleaves 2
6	Broadleaves 3
7	Urban
8	Water
9	Meadows, Fields
10	Roads

**Metadata : c:\gis\slp\_kritiny\idrisi\landuse.rdc**

File Tools Help

Properties Legend Notes

Comments:  
Land Use z LHP 1993-2002 a ortofot 2002.  
13 kategoríí.

Consistency:  
Ing. Martin Klimánek, 2002.

Completeness:  
SLP Křtiny

Lineage:  
This file was created by the POLYRAS module with the command line:  
C:\GIS\SLP Křtiny>IDRISI\landuse.vct" C:\GIS\SLP Křtiny>IDRISI\landuse.rst