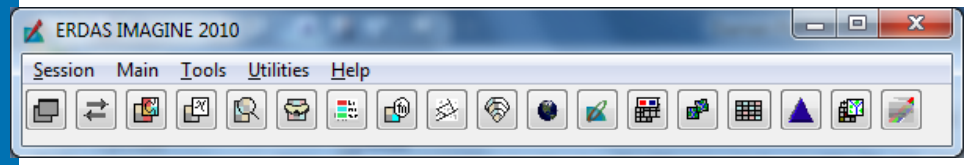
Course: Remote Sensing – Basic Theory & Image Processing Methods
19 - 23 September 2011

CENN Caucasus Environmental NGO Network

ERDAS IMAGINE® 2010



erdas
The Earth to Business Company

Introduction to ERDAS Imagine

Michiel Damen
(damen@itc.nl)

ITC

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- **ERDAS Product suite**
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- **HELP ! function**

About ERDAS

- **Pioneer in PC-based image processing (1978)**
- **One of the leading providers of Geographic Imaging products & services**
- **Headquarter Atlanta, Georgia, USA**
- **http://www.gis.leica-geosystems.com/**

About ERDAS

- **Focus on image processing and information extraction; aerial and space**
- **Raster based analysis**
- **Increasing integration of GIS functionality**
- **Close links with the ArcGIS suite of ESRI**

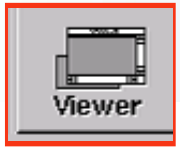
ERDAS Product Suite

- **Imagine Essentials**
- **Add-on modules** (a.o. Virtual GIS, Vector Module)
- **Photogrammetric Applications** (OrthoBASE, Stereo-Analyst)
- **Radar Applications**

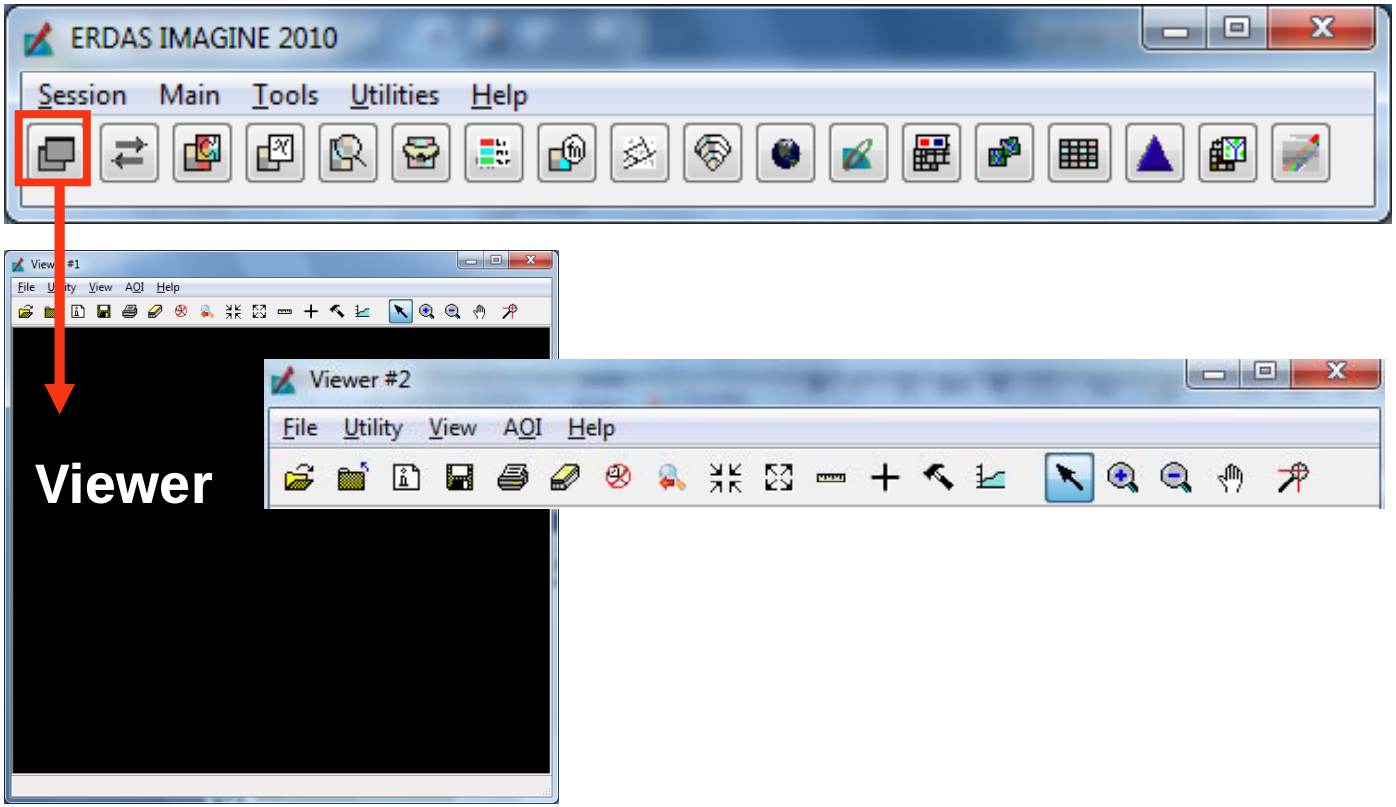
ERDAS Interfaces

Classical

Windows 2010

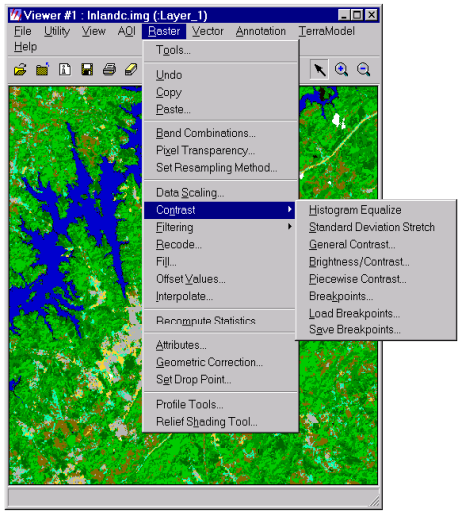


Imagine startup (Classic interface)

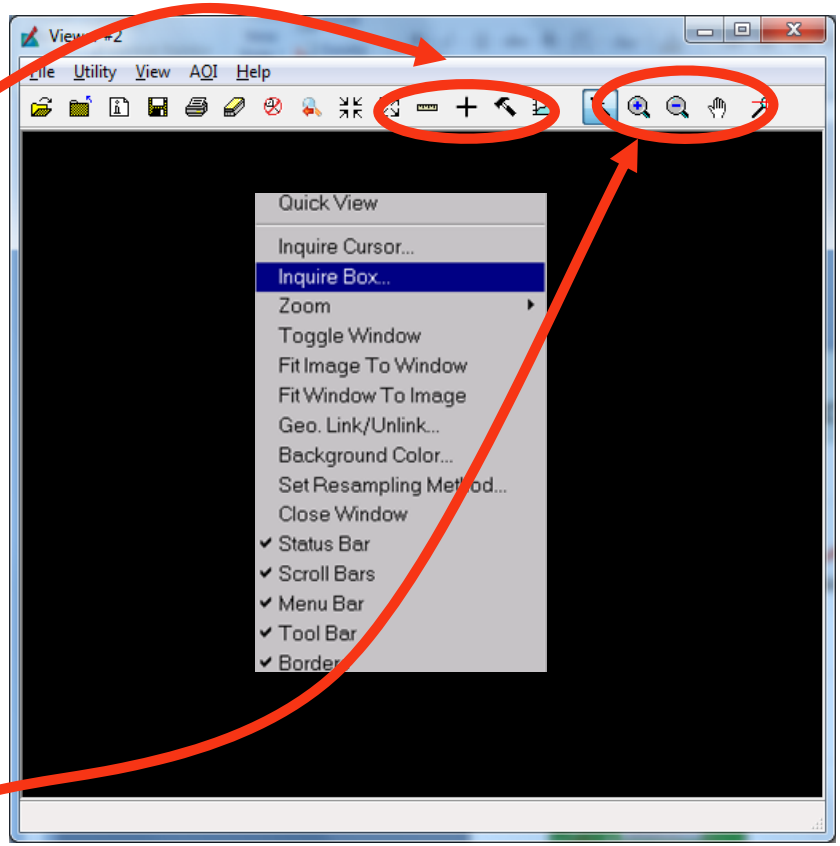


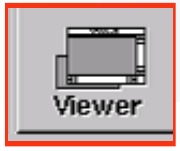
Viewer

Most common data types have a pull-down menu



Most common functions have short cuts and an icon



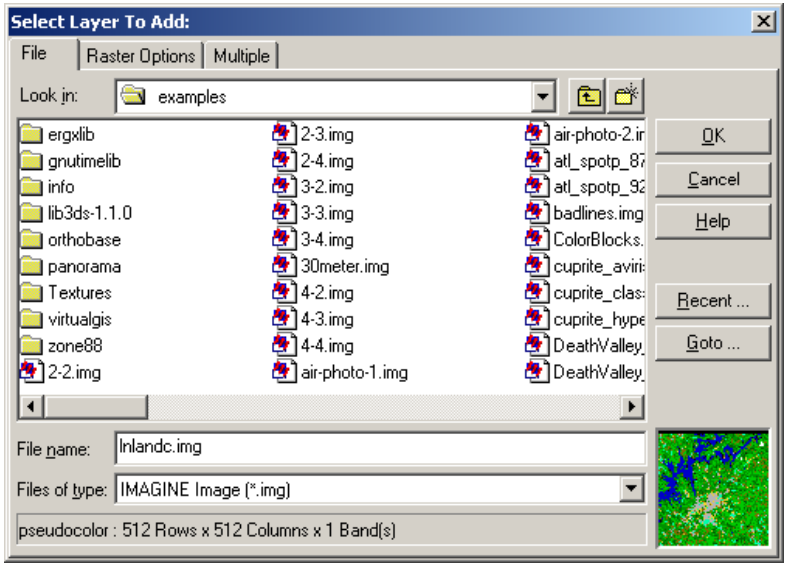


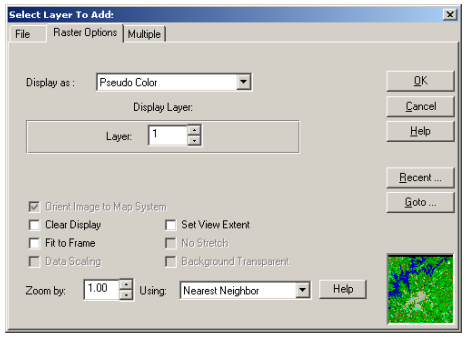
Viewer

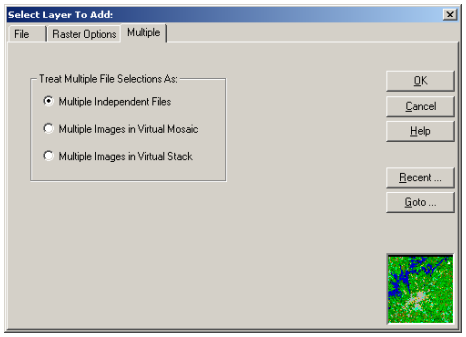
Viewer -> File -> Open -> Raster Layer . . . (Ctrl-R)

Use Recent . . . or Goto . . to use recent files or go to recent subdirectories

Change preferences for default file locations and viewer preferences if you wish



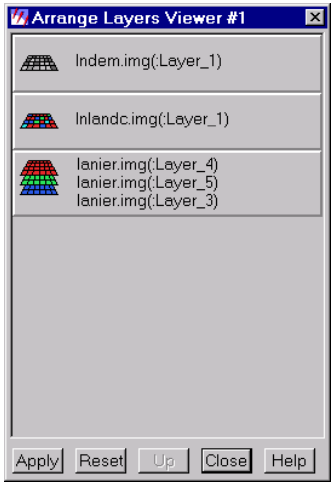


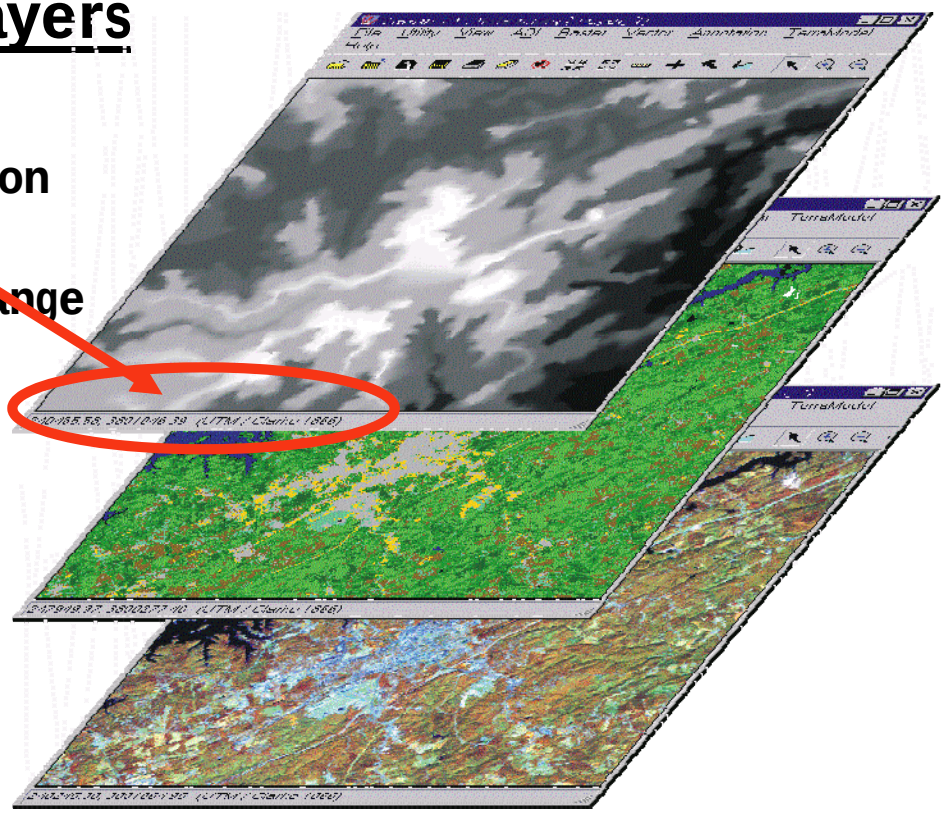


View multiple layers

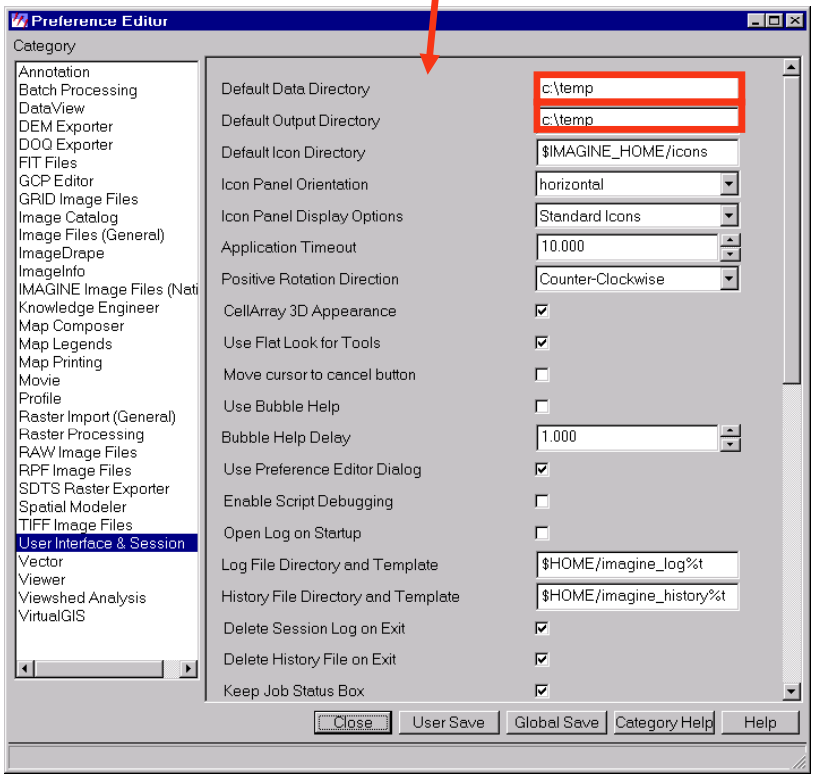
Sharing the same co-ordinates and projection

Viewer -> View -> Arrange Layers (Ctrl-L)



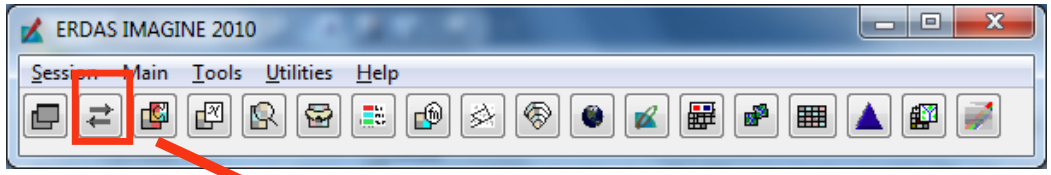


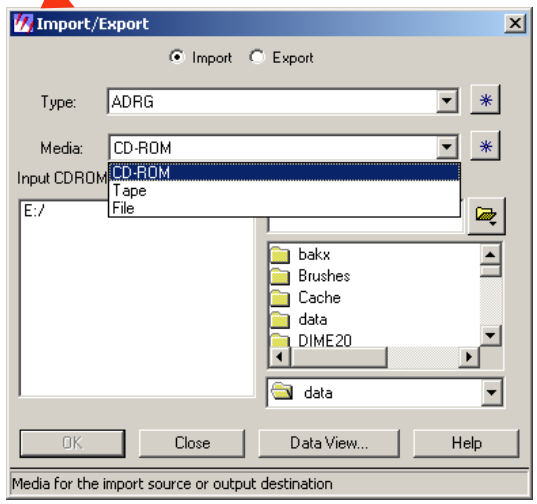
Preferences

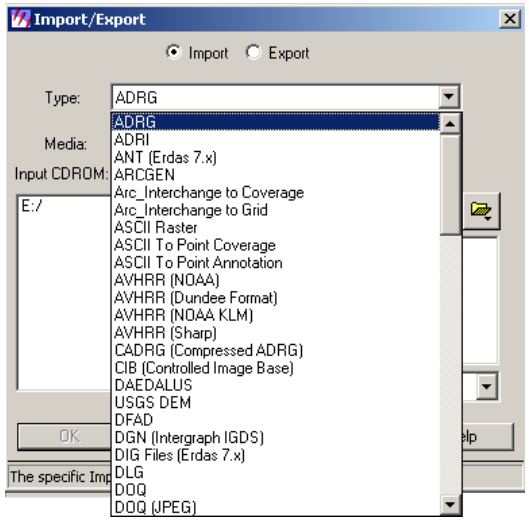


It's useful here to specify the folder that contains the exercise data (and to which you have writing access)

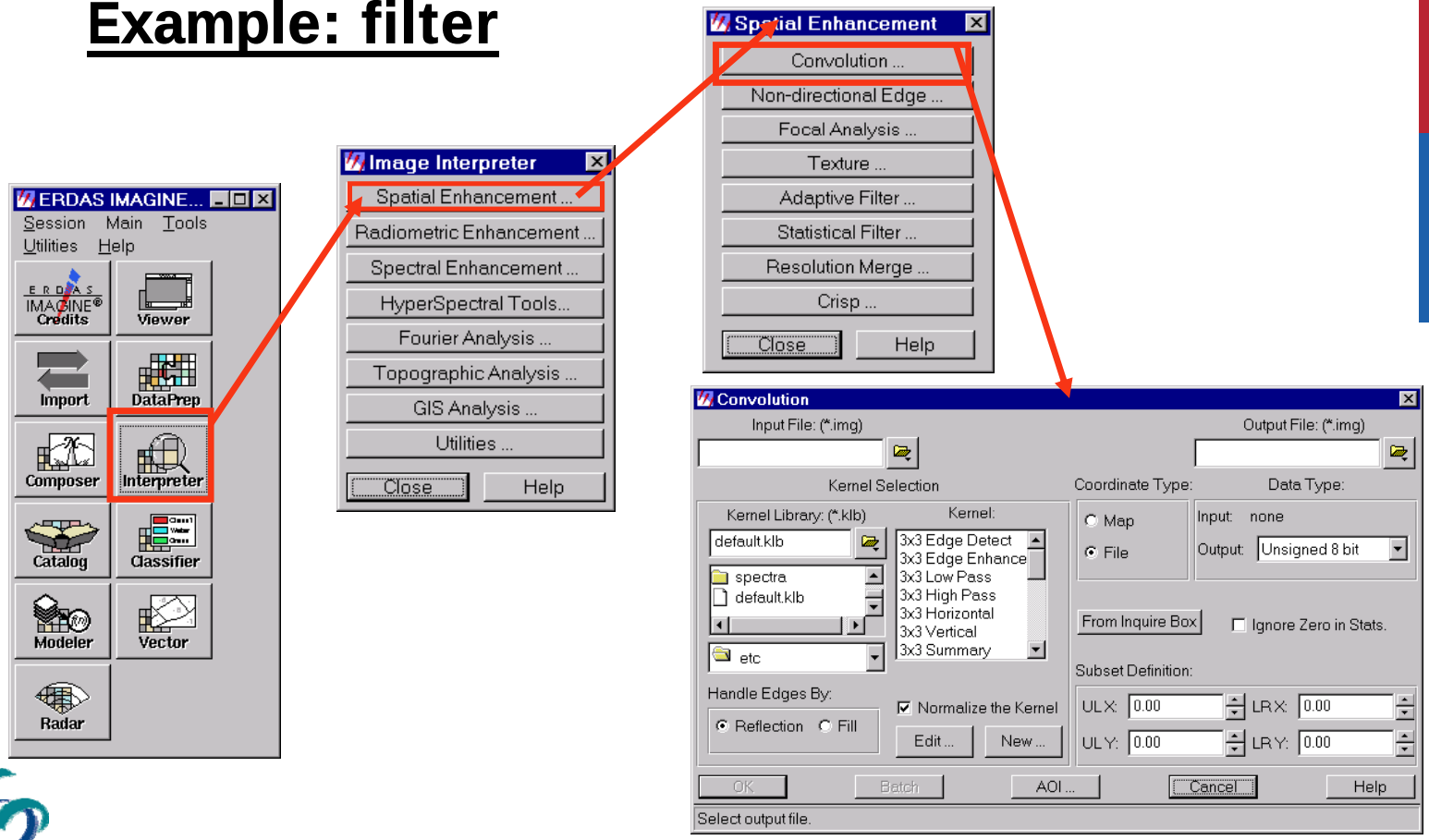
Import / Export



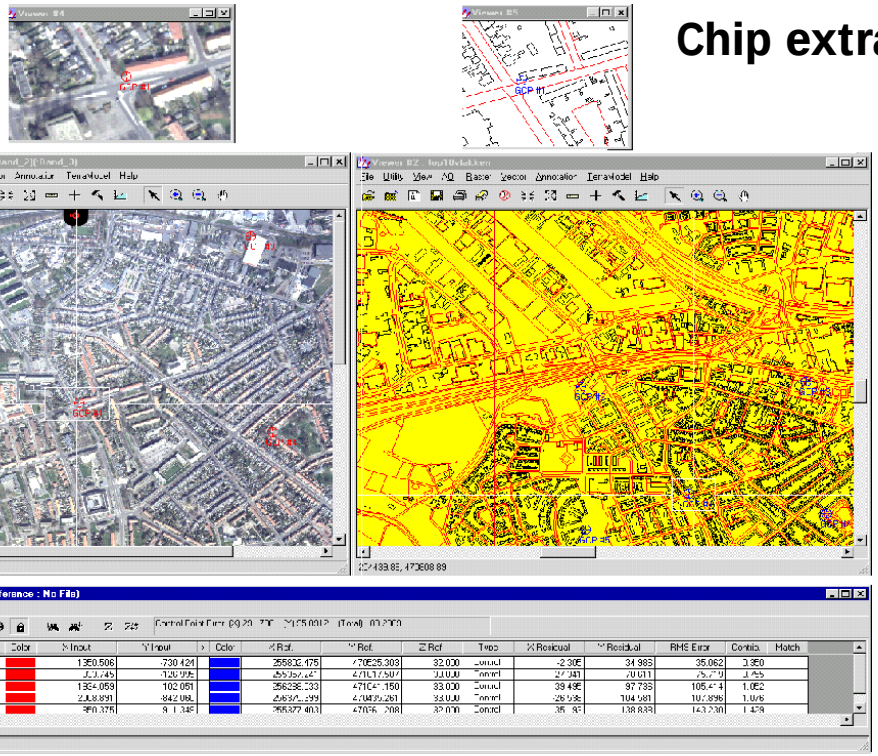




Example: filter

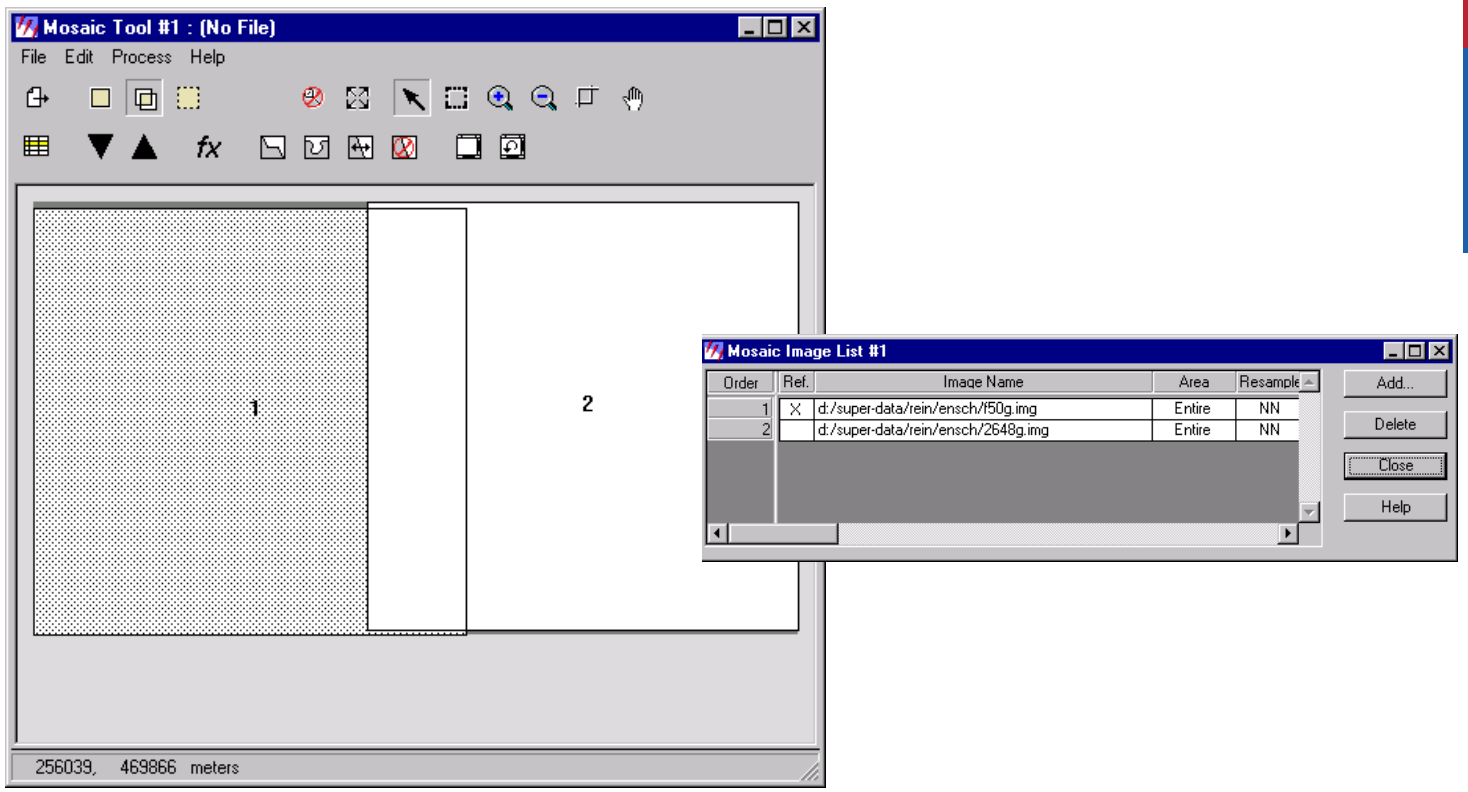


Example : Geometric correction tool

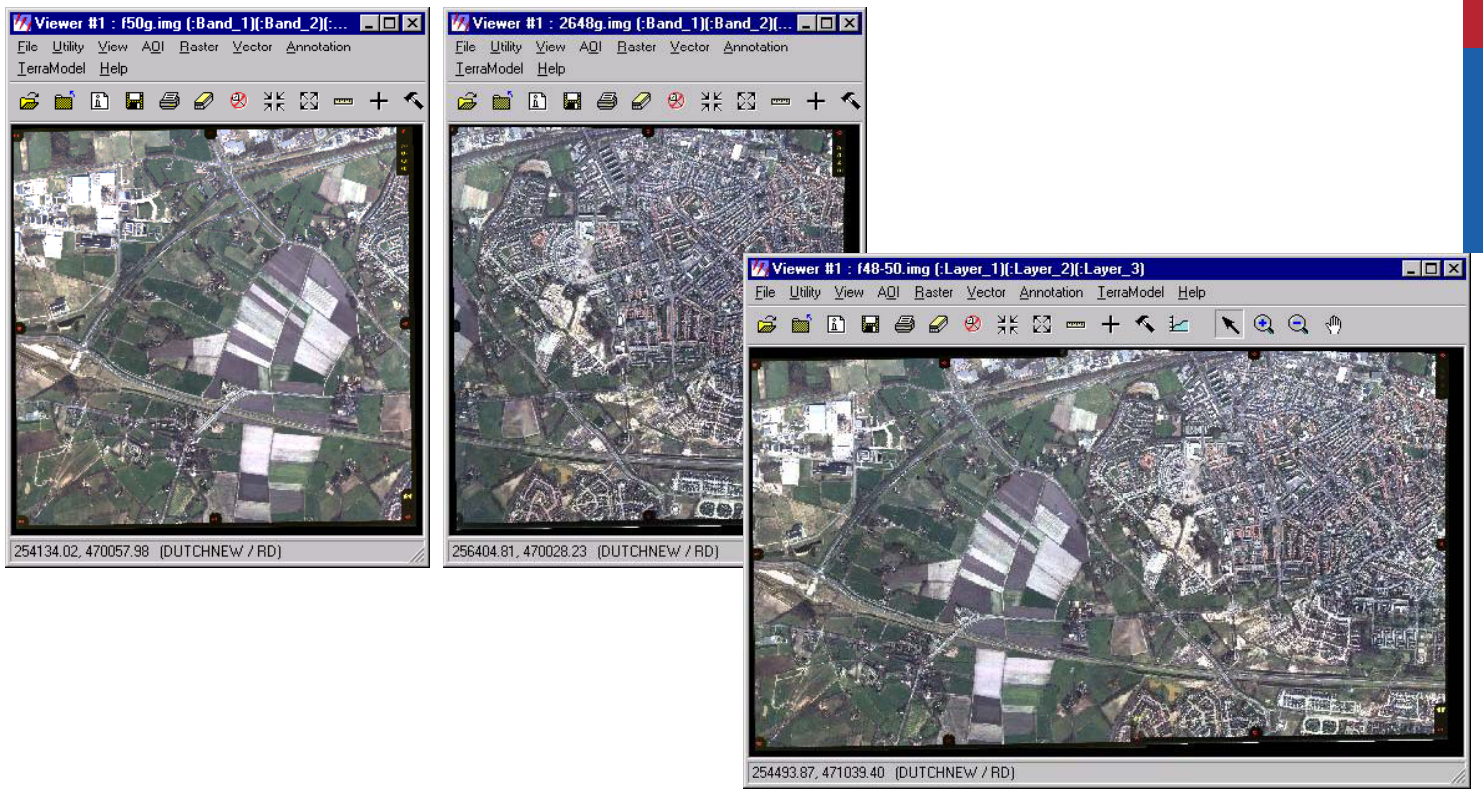


Chip extraction

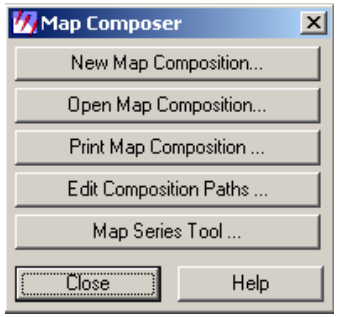
Example : Mosaicing tool

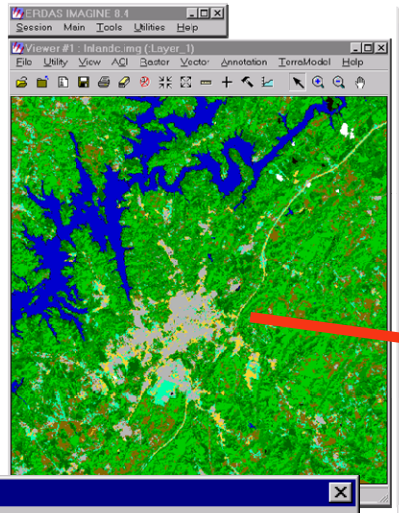


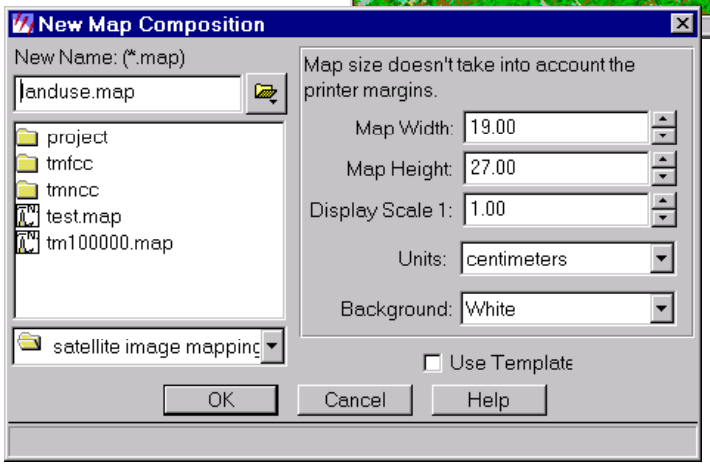
Mosaic output

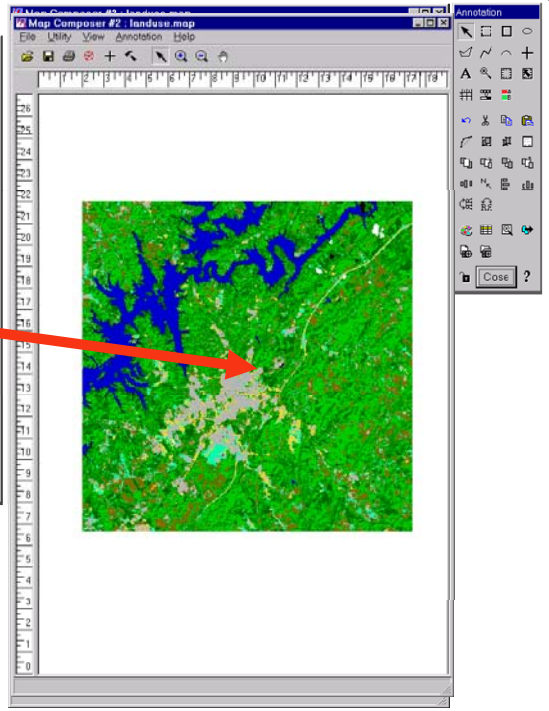


Map composer



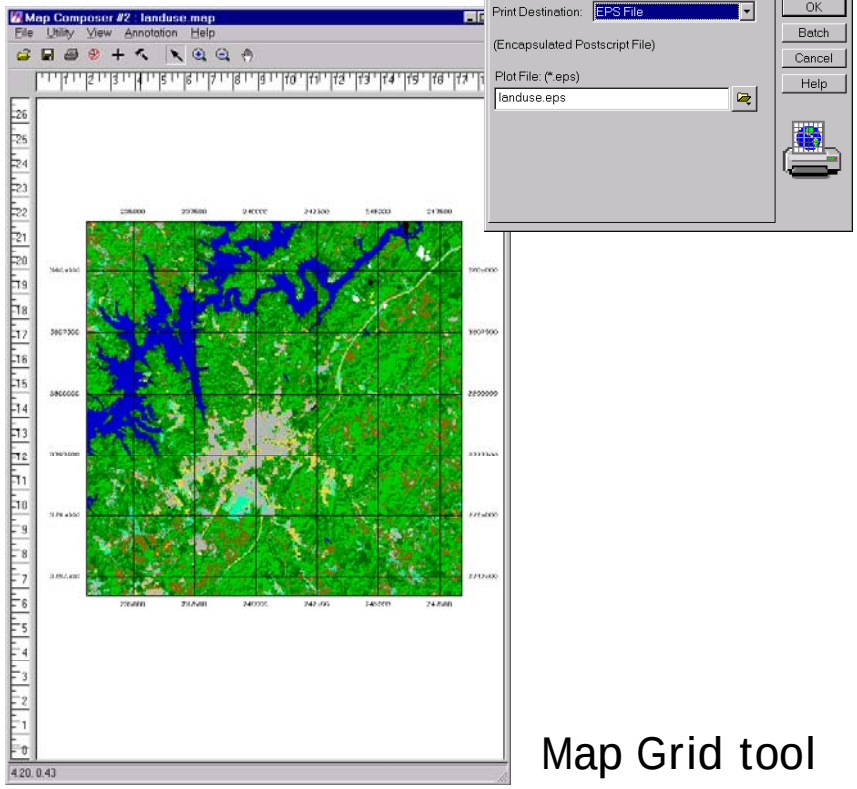




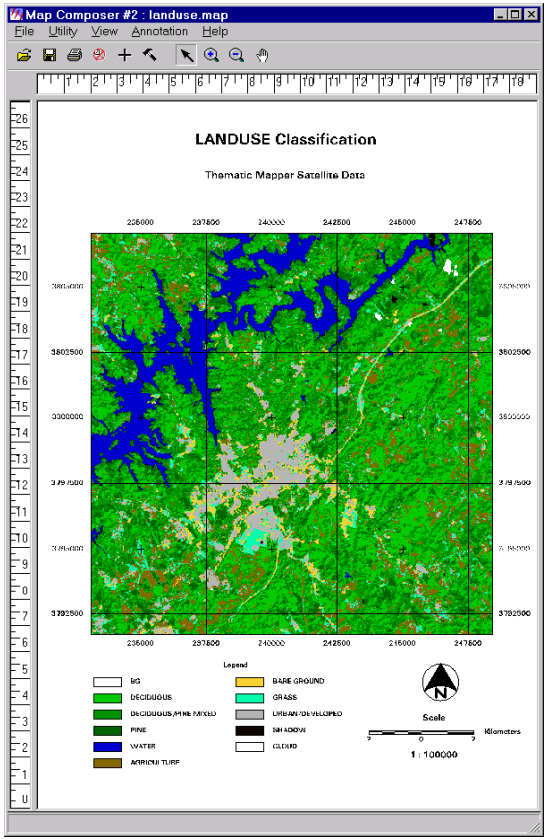


Map Frame tool

Map composer

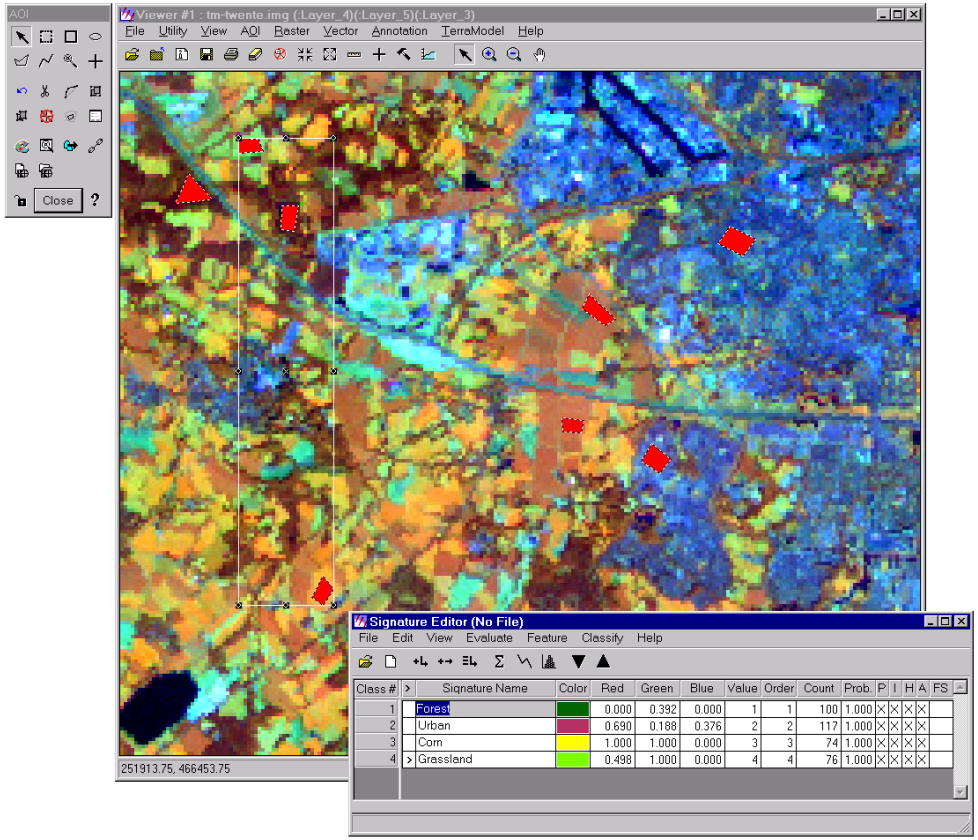


Map Grid tool

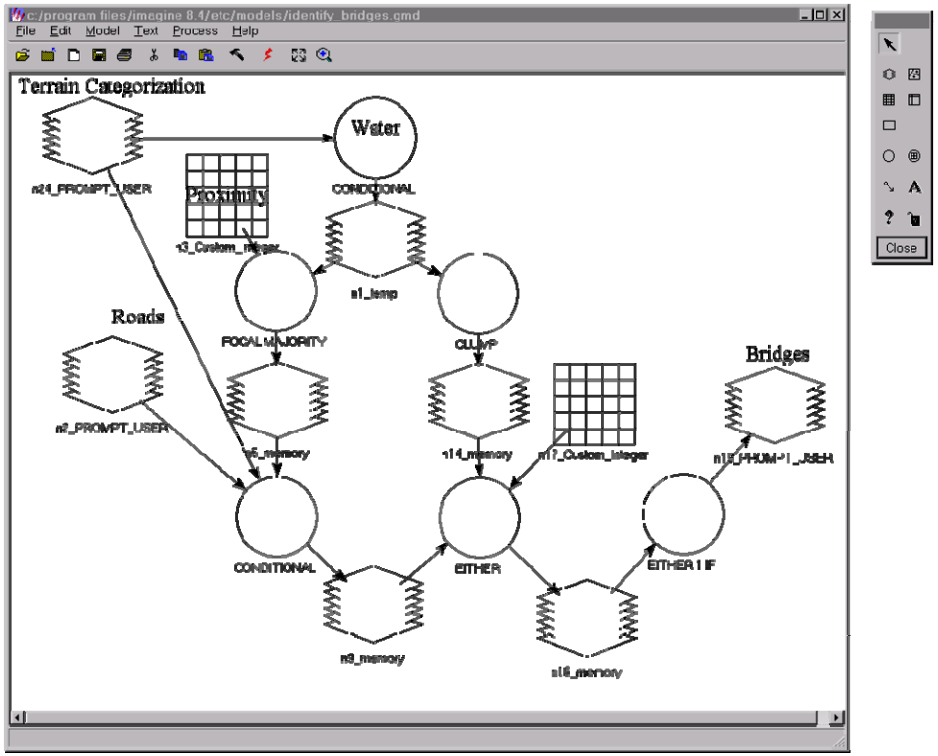


Map Output

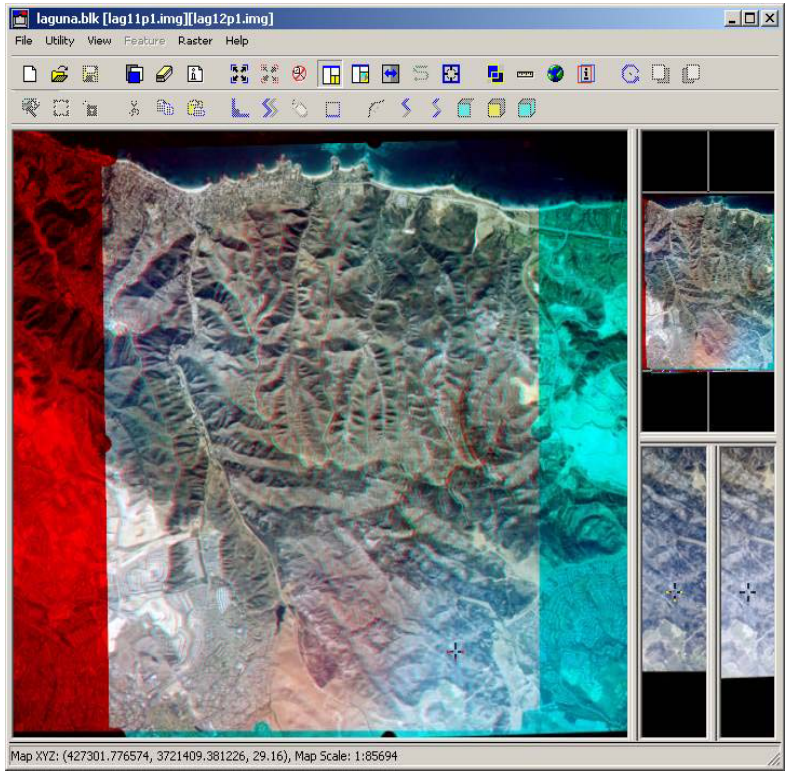
Classification



Spatial Modeler

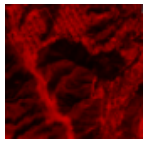


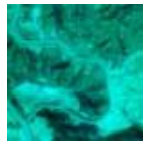
Stereo Analyst



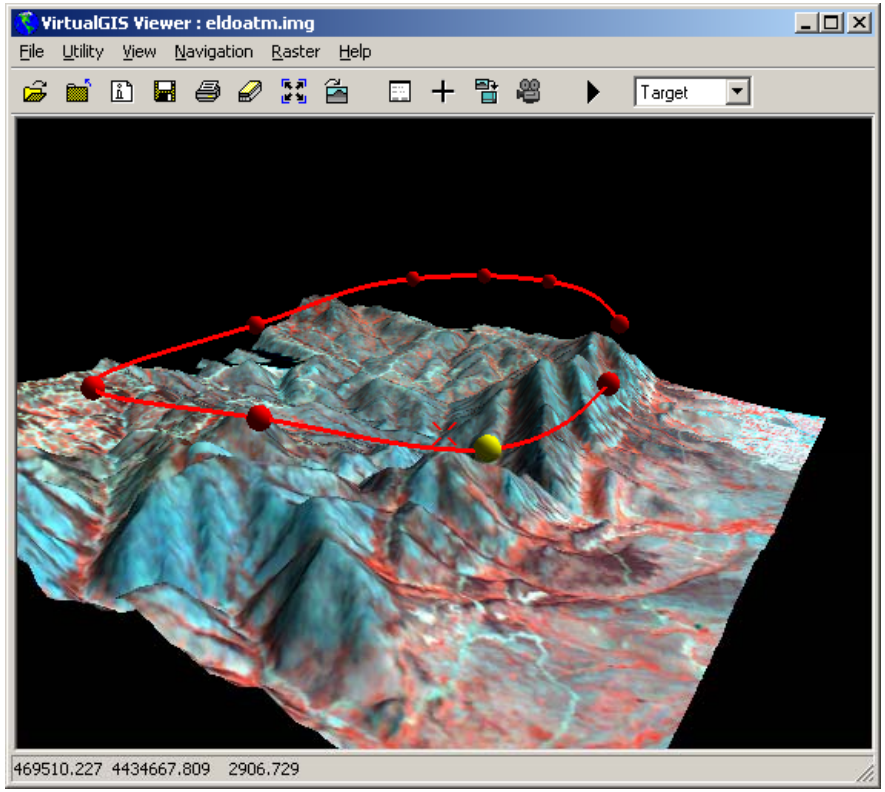
Creation of anaglyph

red <-> green/blue





Virtual GIS



“ 3D” images

Help !

- **Context sensitive Help menu:**
  - pull down menu
  - right-mouse button over a window

Documentation

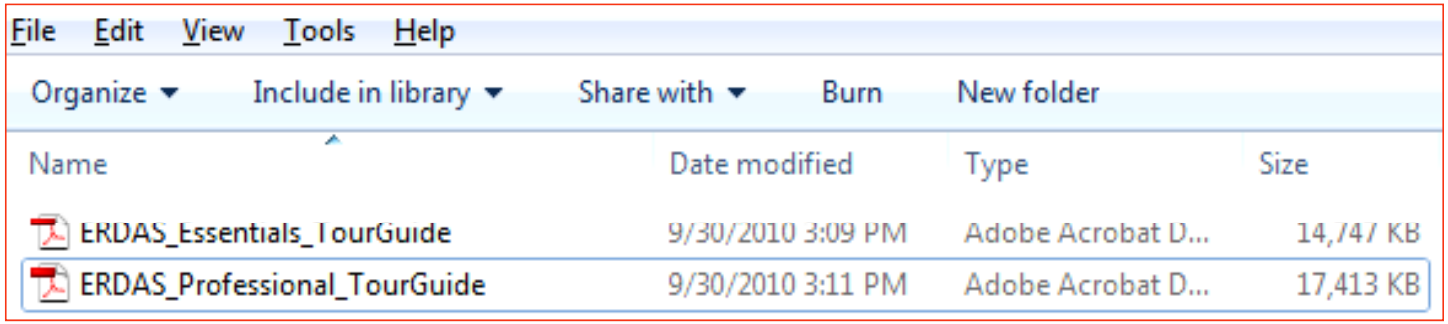
ERDAS IMAGINE® Essentials
Tour Guides

November 2009

ERDAS IMAGINE® Professional
Tour Guides

November 2009

Both Guides are available in PFD at the data CD



Introduction ERDAS Imagine

Questions