

Spatial Analyst

Using Spatial Analyst

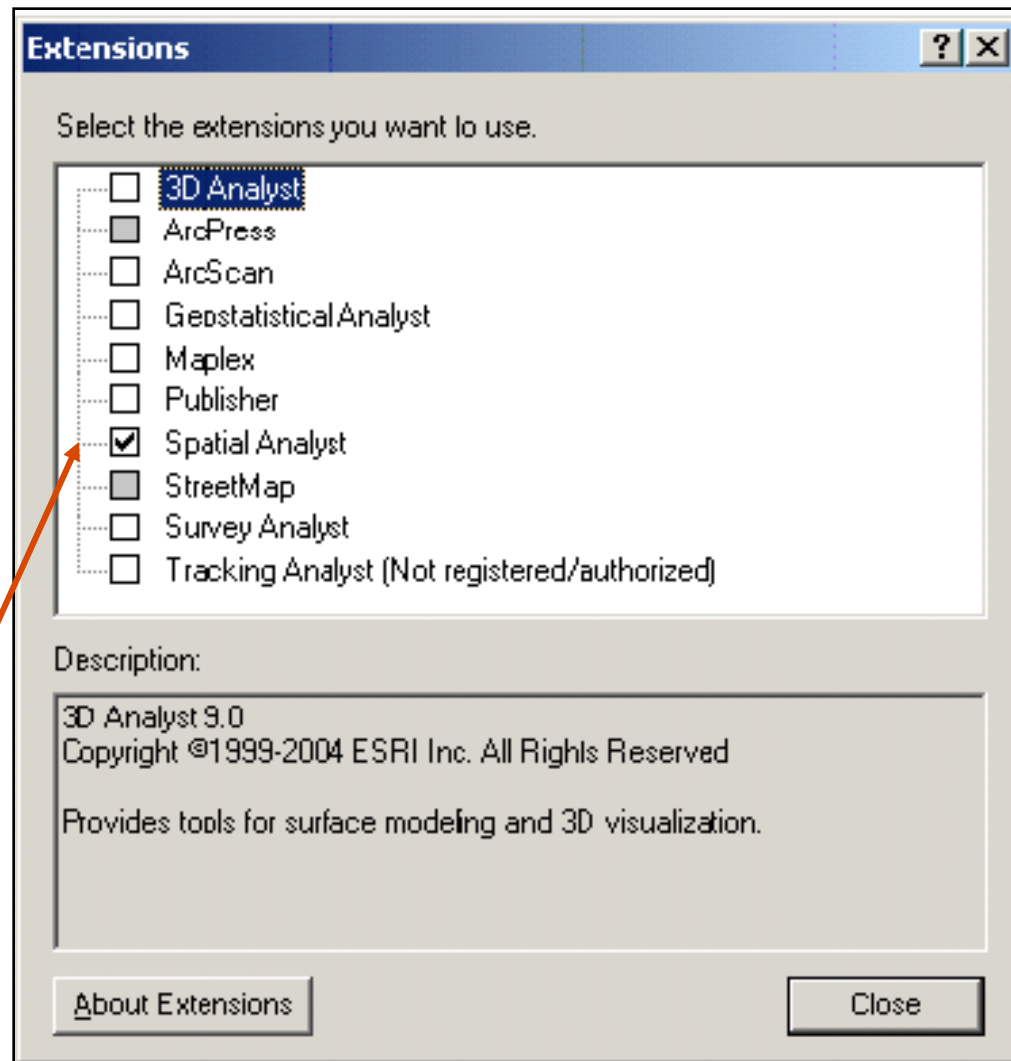
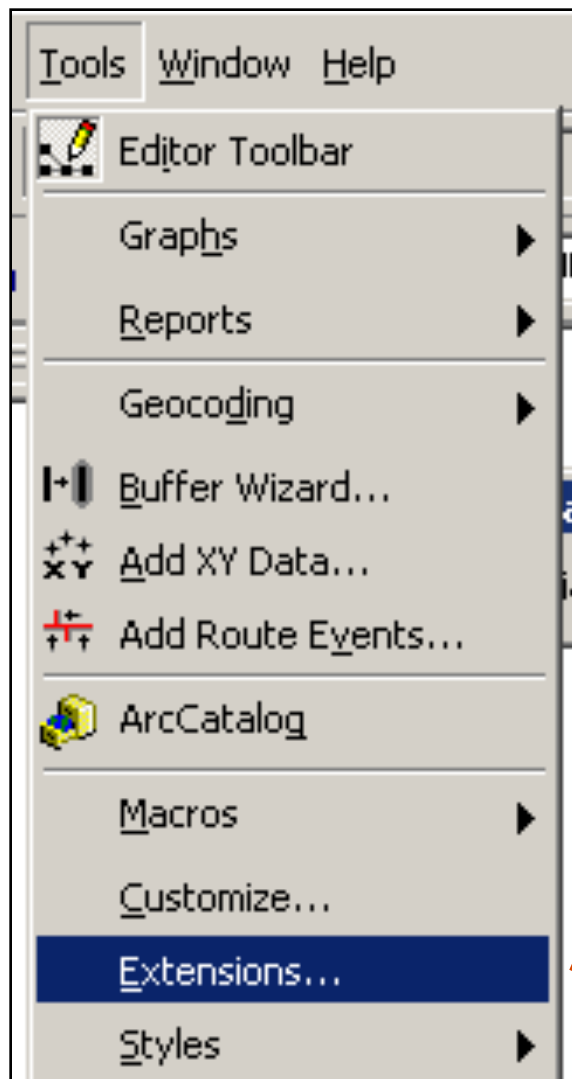
Spatial Analyst

- An ***extension*** to ArcGIS
 - Software included on ArcGIS Desktop
 - Installed under Complete or Custom option
 - Requires purchase of additional license to use
- Operates within ArcMap or from ArcToolbox
- Provides additional tools for managing and analyzing ***raster*** data

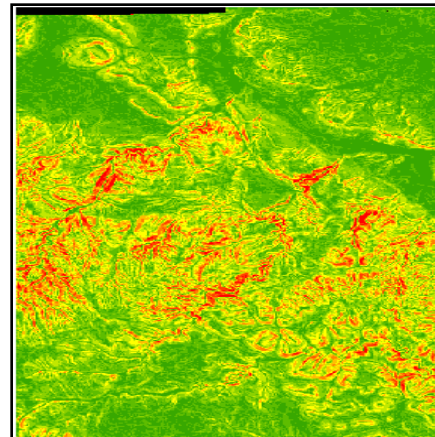
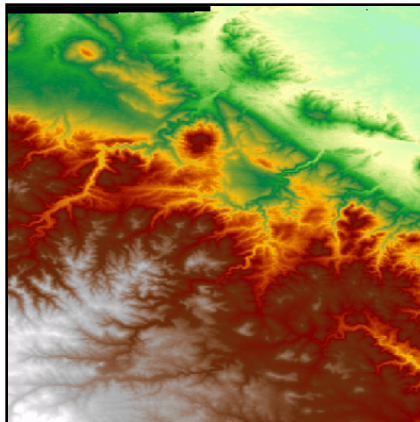
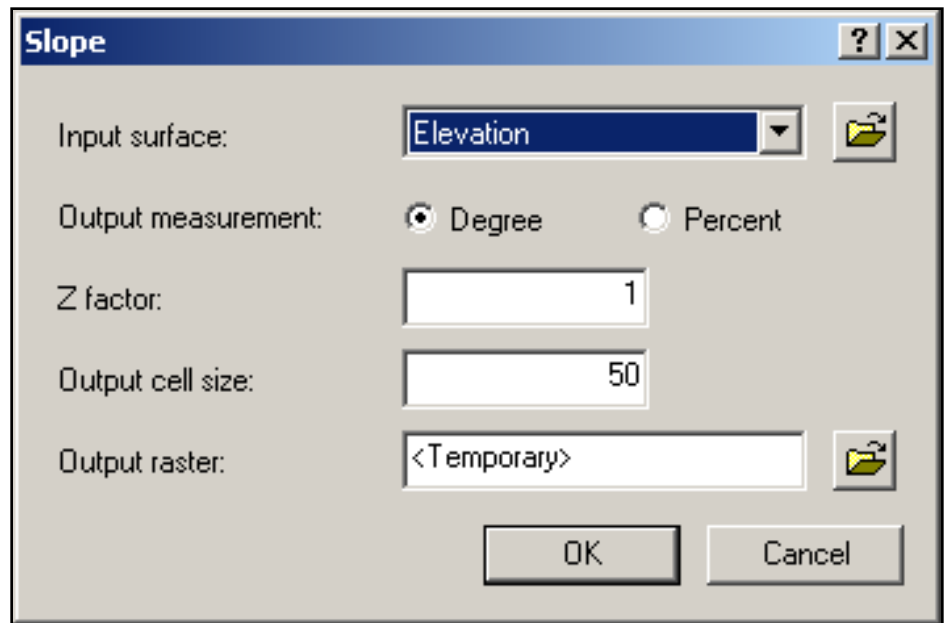
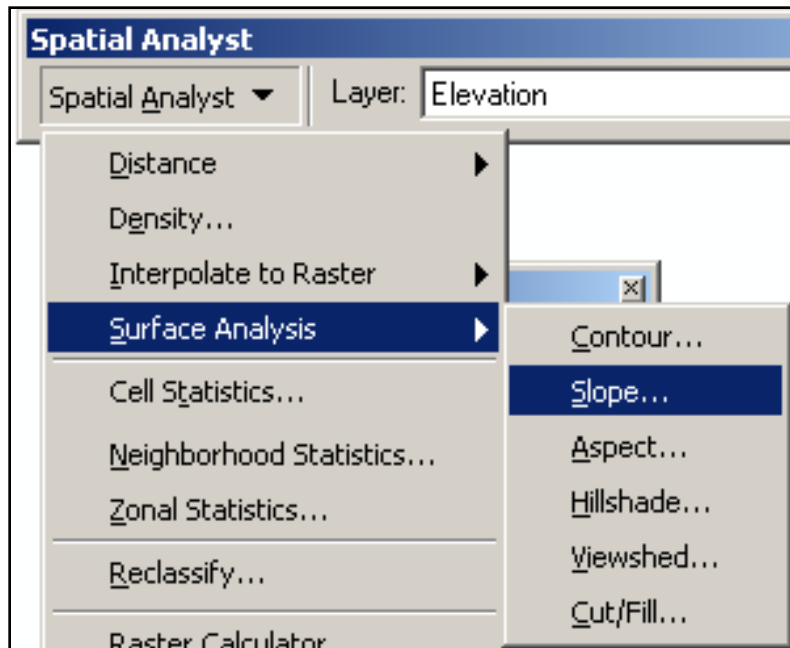
Using Spatial Analyst

- Executing functions
- Temporary vs permanent output grids
- Resampling and coordinate systems
- Analysis environment options
 - Workspace
 - Extent
 - Cell size
 - Masks

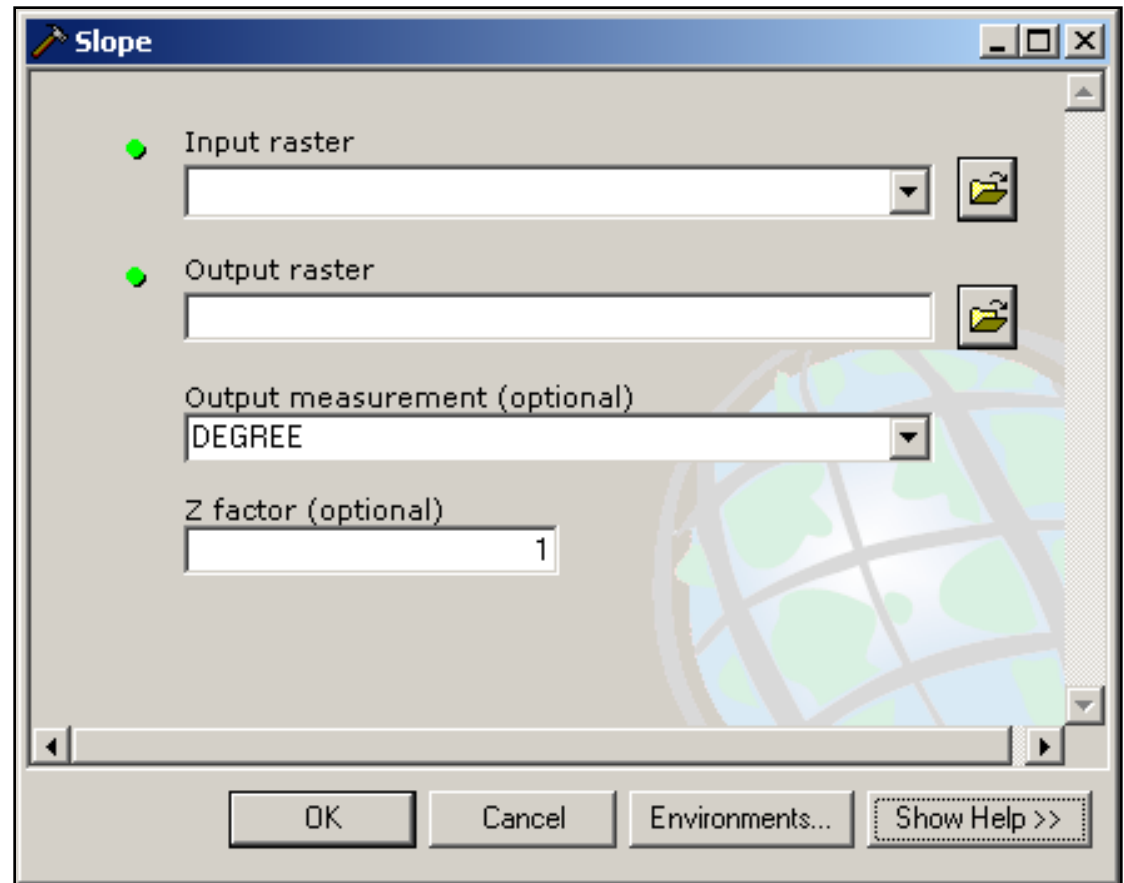
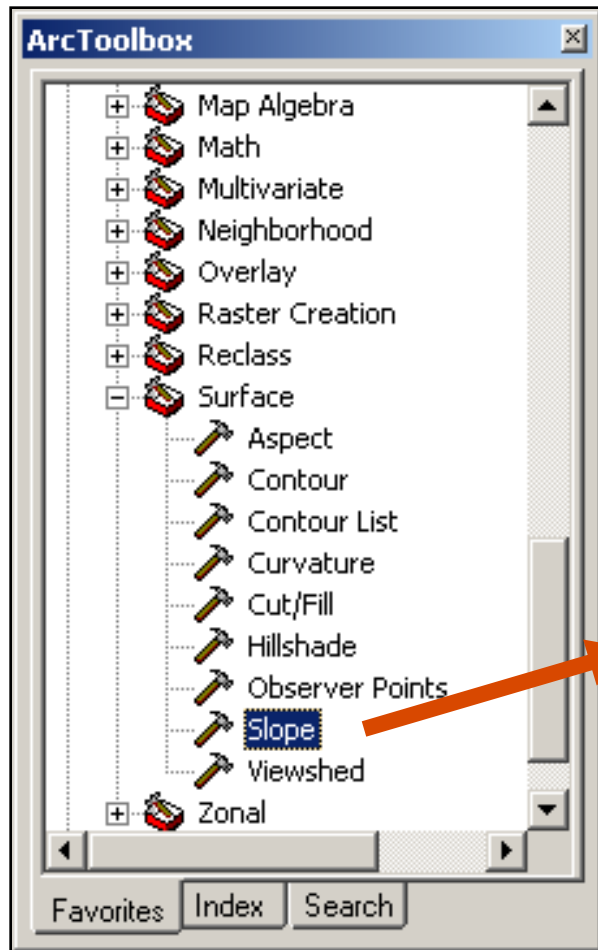
Turning on Spatial Analyst



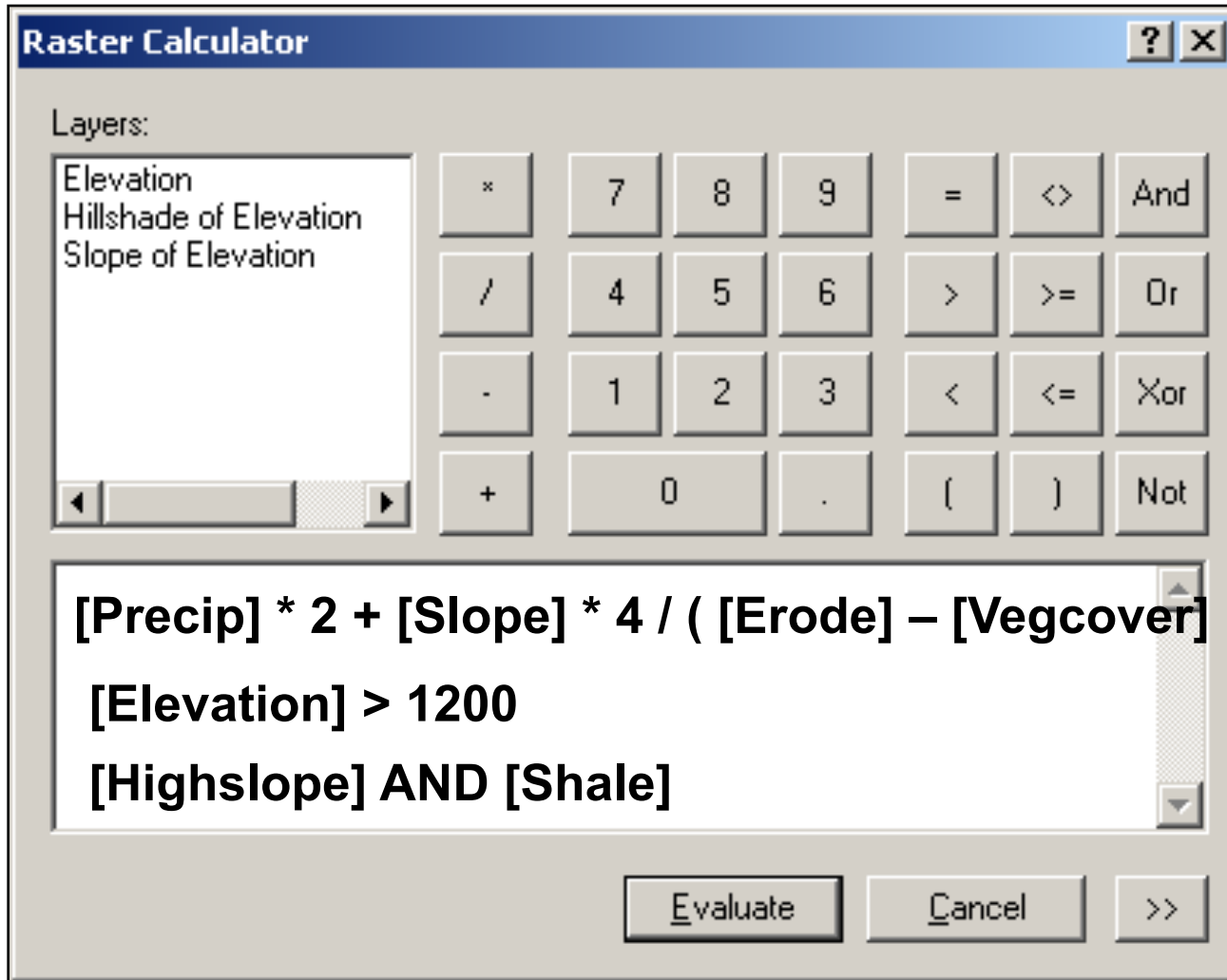
Performing analysis (menu)



Performing analysis (toolbox)



Raster Calculator



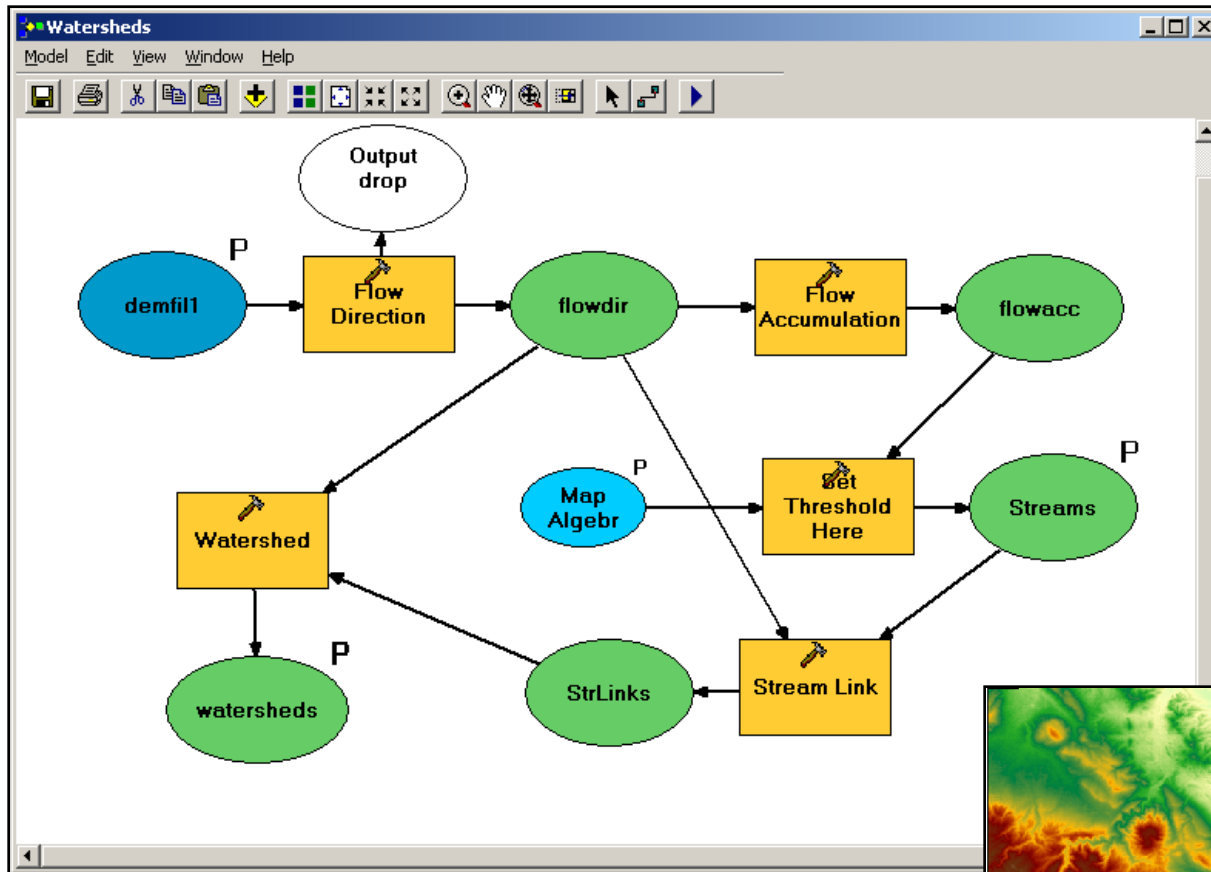
Numeric
formulas

Mathematical
functions (sin,
exp, cos, etc)

Logical
operators

Boolean
operators

ModelBuilder



Use Spatial Analyst tools in ModelBuilder just as you can use any other tools.

This model generates watersheds and streams from a digital elevation model (DEM) using the Spatial Analyst hydrologic functions.

