Mesh Visualization

Mesh Module

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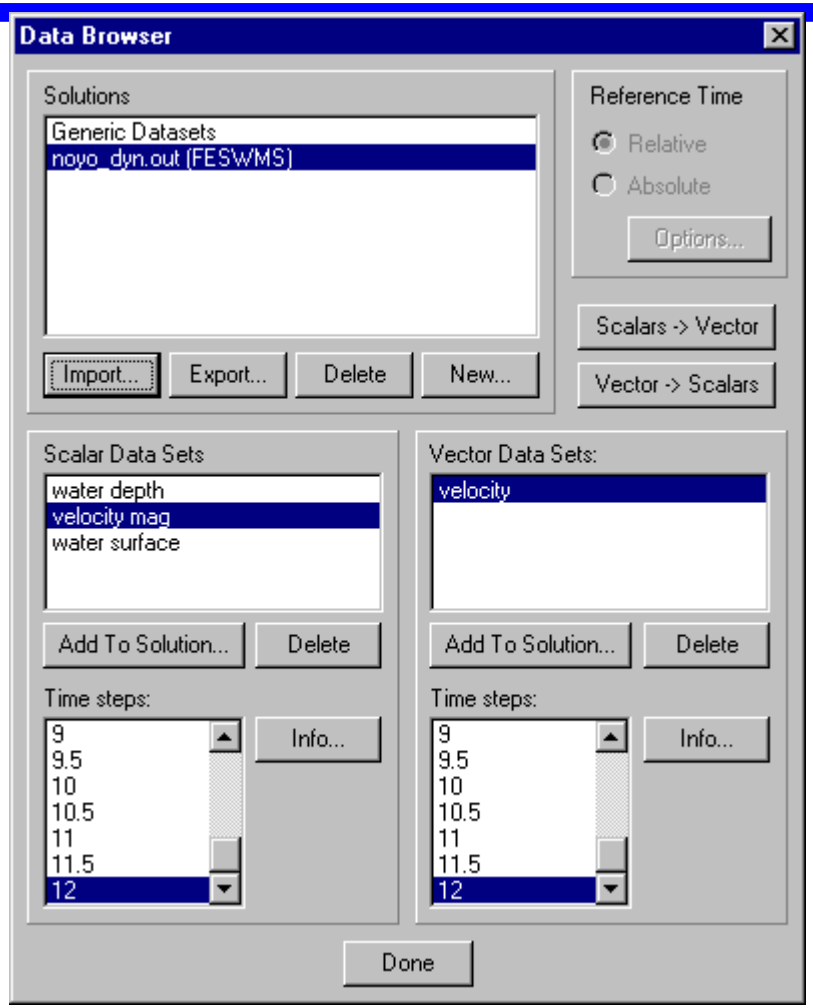
Reading Solutions

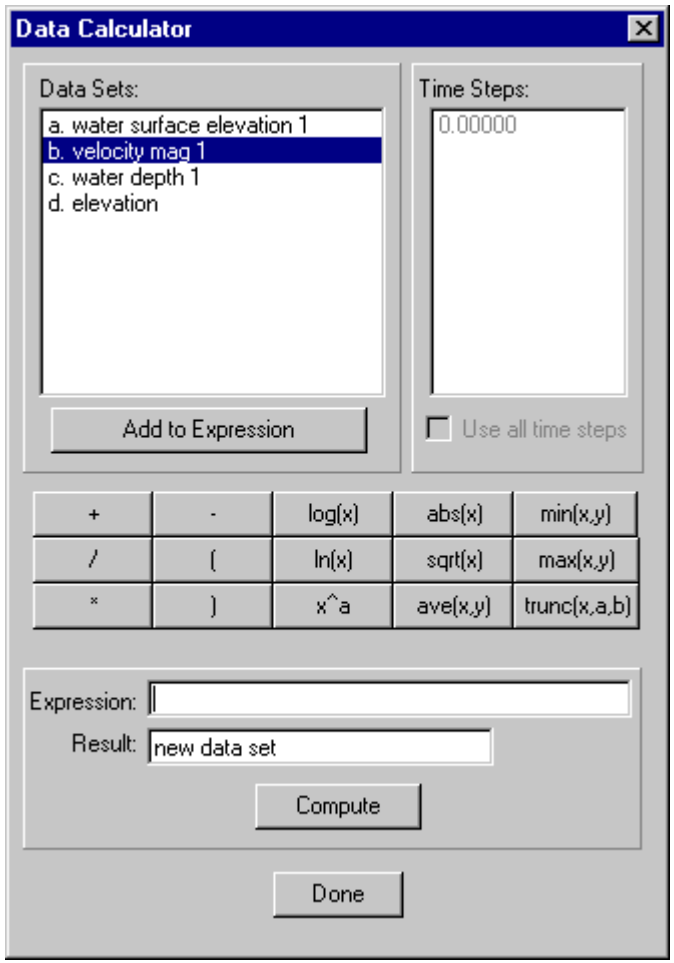
- SMS Supports These Formats:
  - EMRL Data Set Formats
  - FloMOD & Flo2DH “.out” and “.flo” files
  - TABS-MD “.sol” files
  - Additional Formats For Other Model Types
- Opened Through File Menu or Imported through Data Browser

Data Set Browser



- Scalar or Vector Data
- Values at Nodes
- Data Sets Grouped Into Solutions
- Viewed in Data Browser (Shown)
- Edit Bar Shows Active Data Set

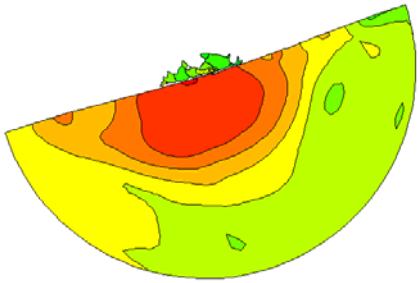
Data Calculator



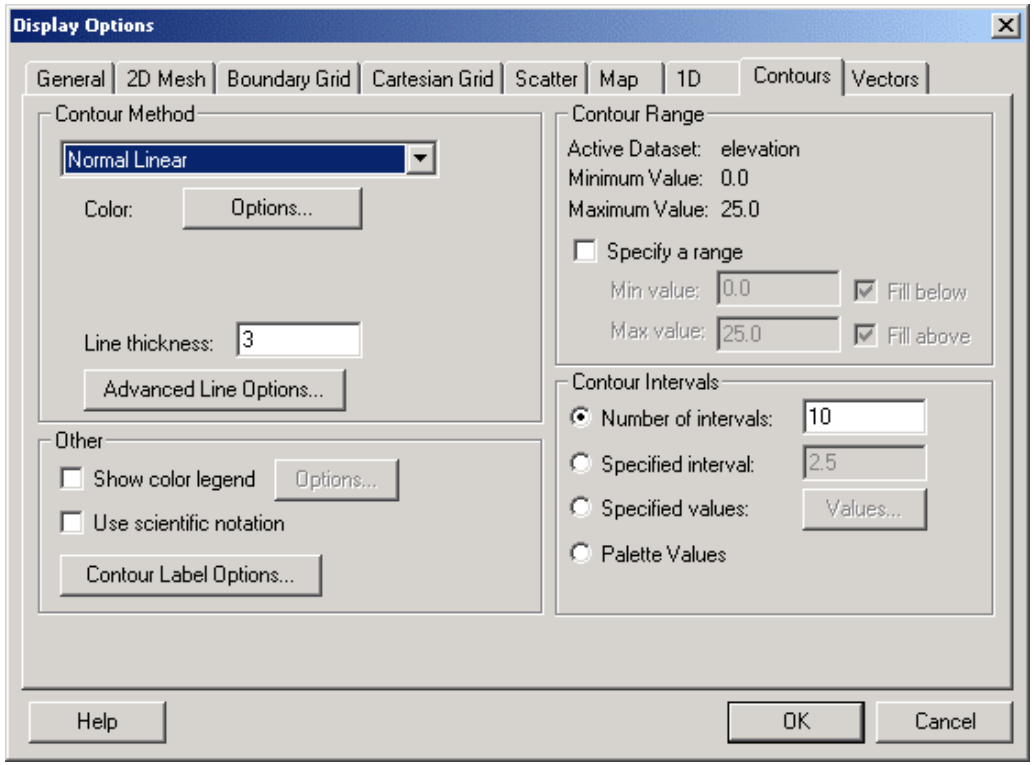
- Create Data Sets
  - Visualization
  - Comparison

Visualization Methods

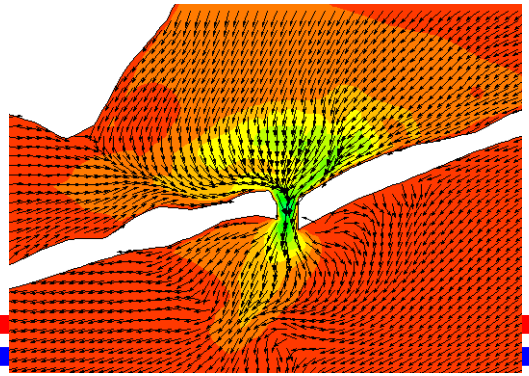
- Contour Plots
- Vector Plots
- Animations
- 2-D Plots
  - Profiles
  - Cross sections
  - Time Series



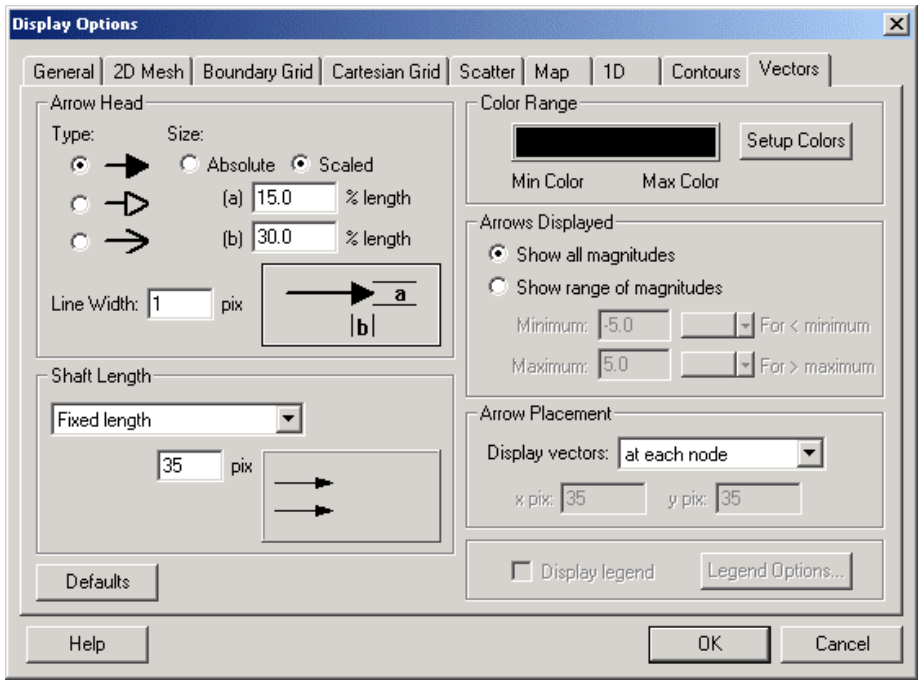
Contours



- Method
  - Linear, Filled, Combined
- Range
  - Default, Specified
- Intervals
  - Number, Size, Specified
- Legends



Vectors

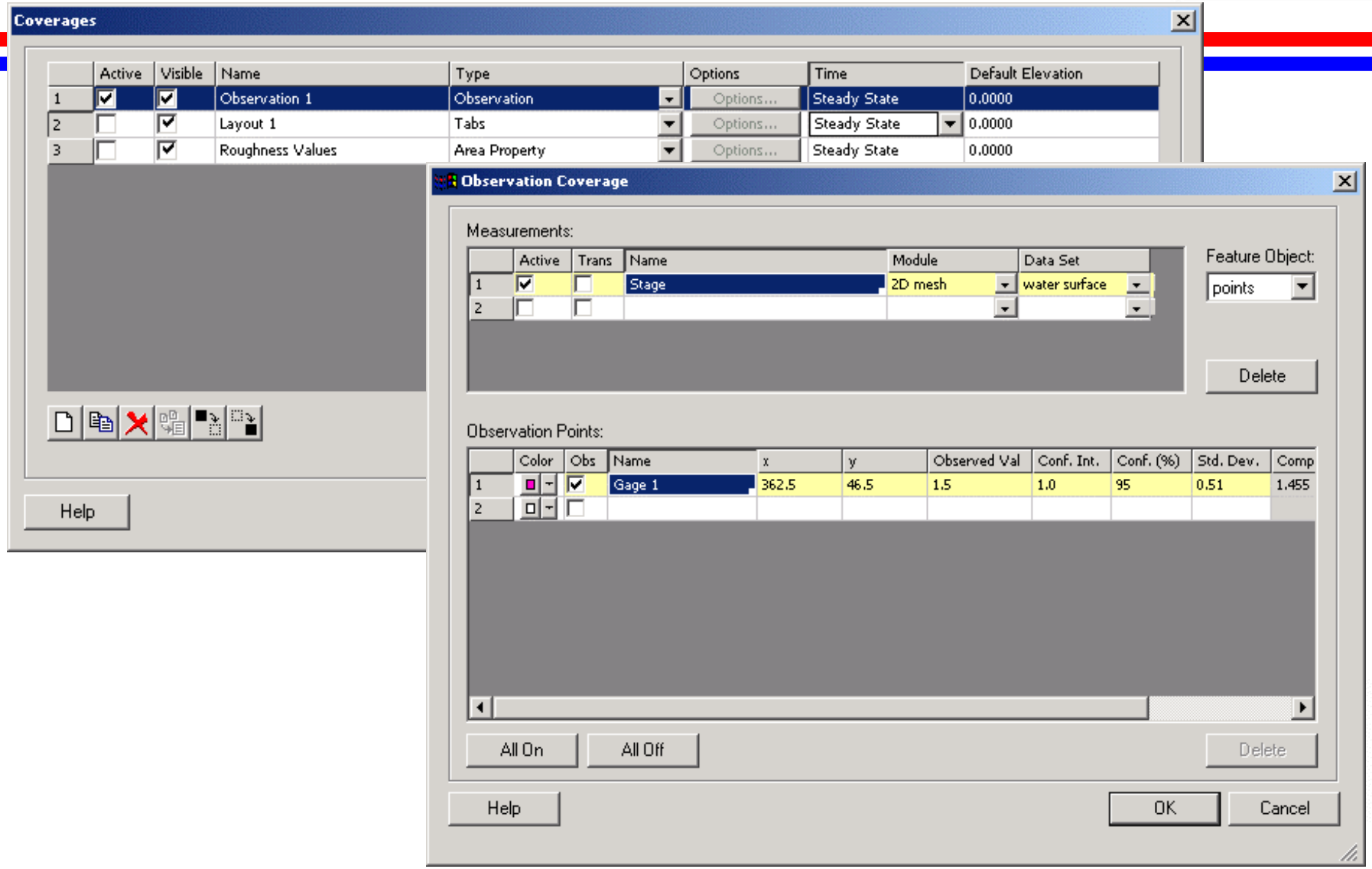


- Head
  - Style, Size
- Length
  - Fixed, Scaled, Range
- Colors
  - Fixed, Ramp
- Display
- Placement
  - Nodes/Cells, On Grid

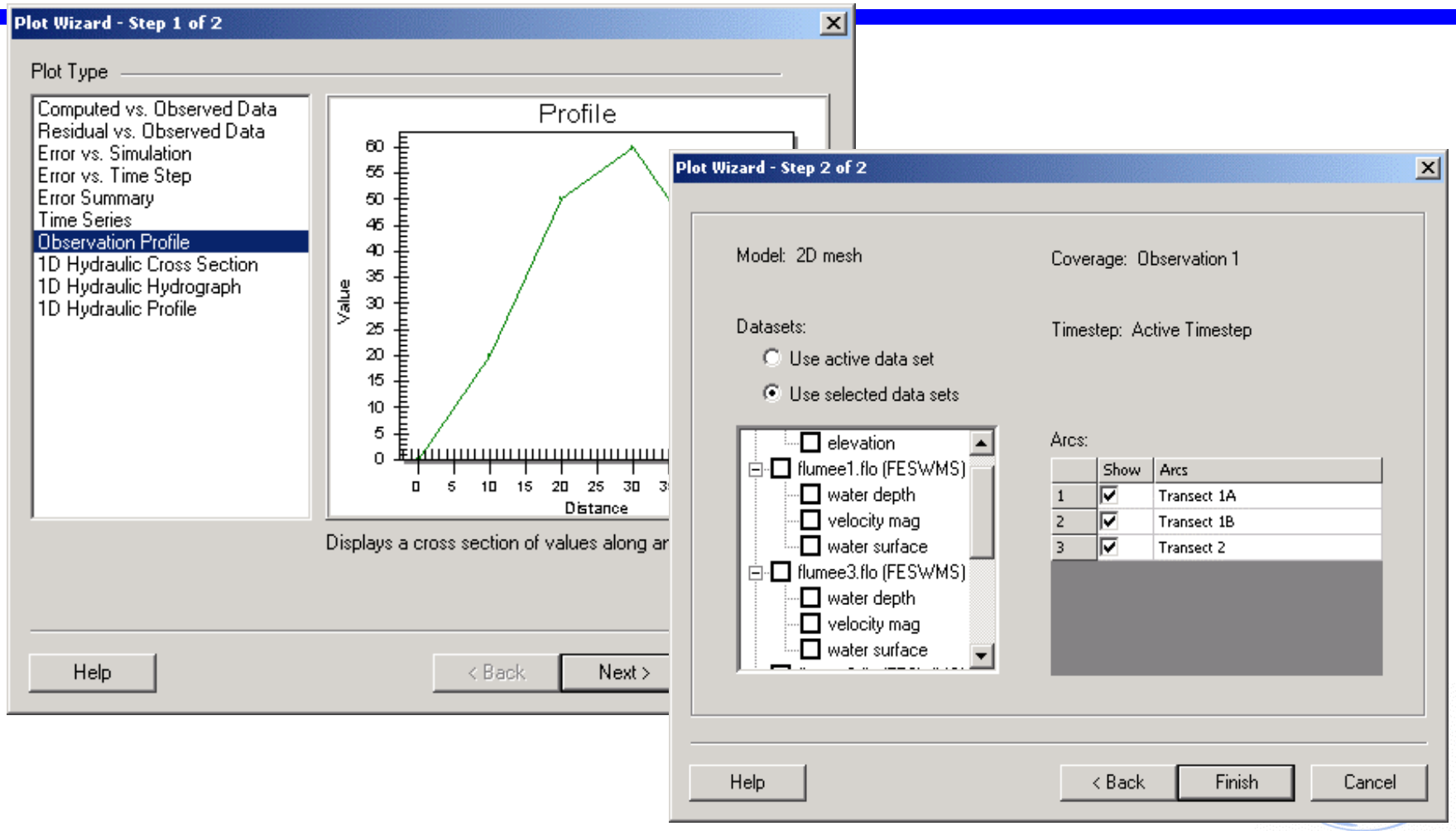
Animations

- Series of Vector or Contour plots
  - Requires dynamic solution
  - User controls number of frames
- Flowtrace (Animation of a vector data set)
  - Applies to both steady state and dynamic solutions

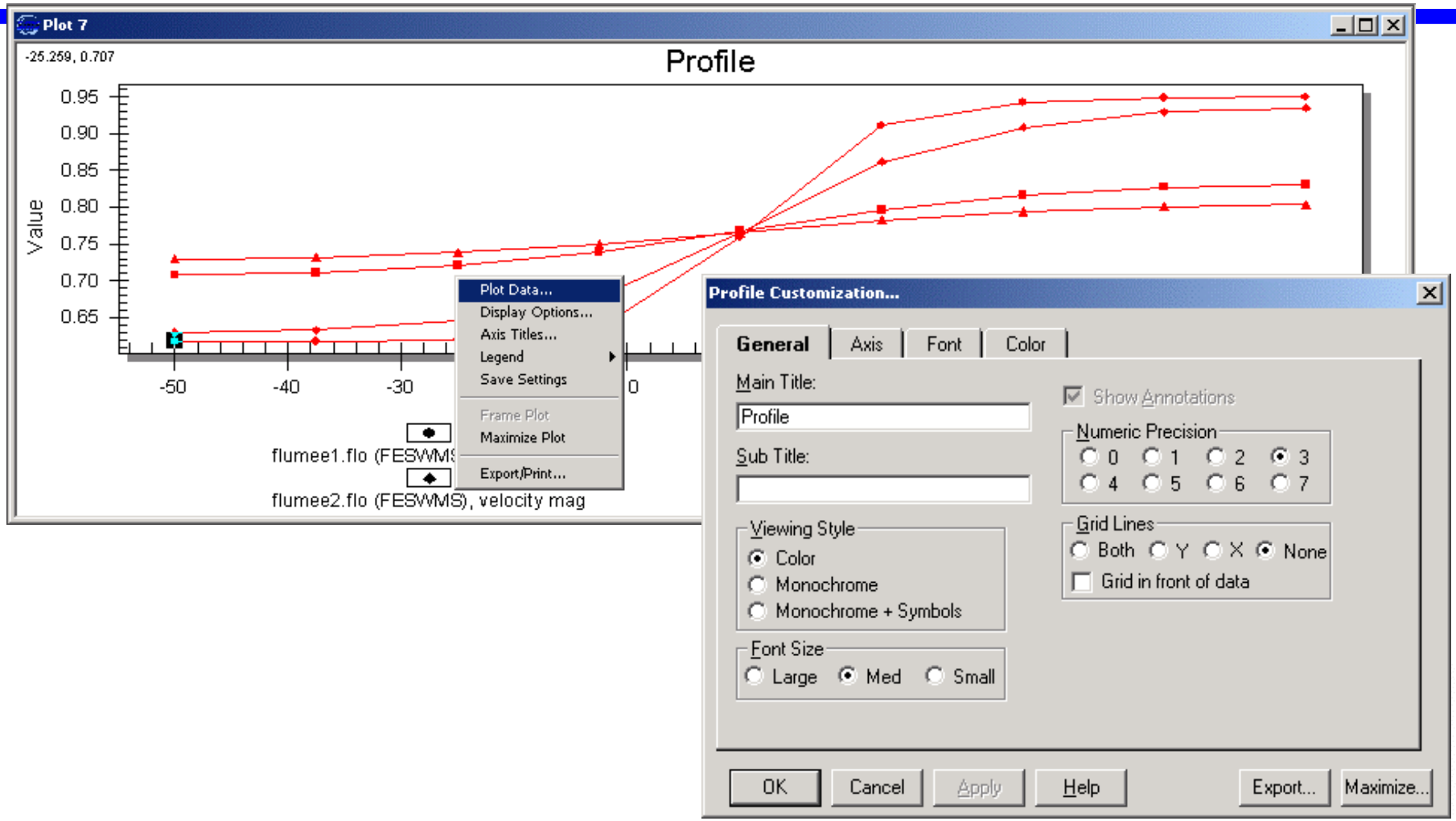
Observation Coverage



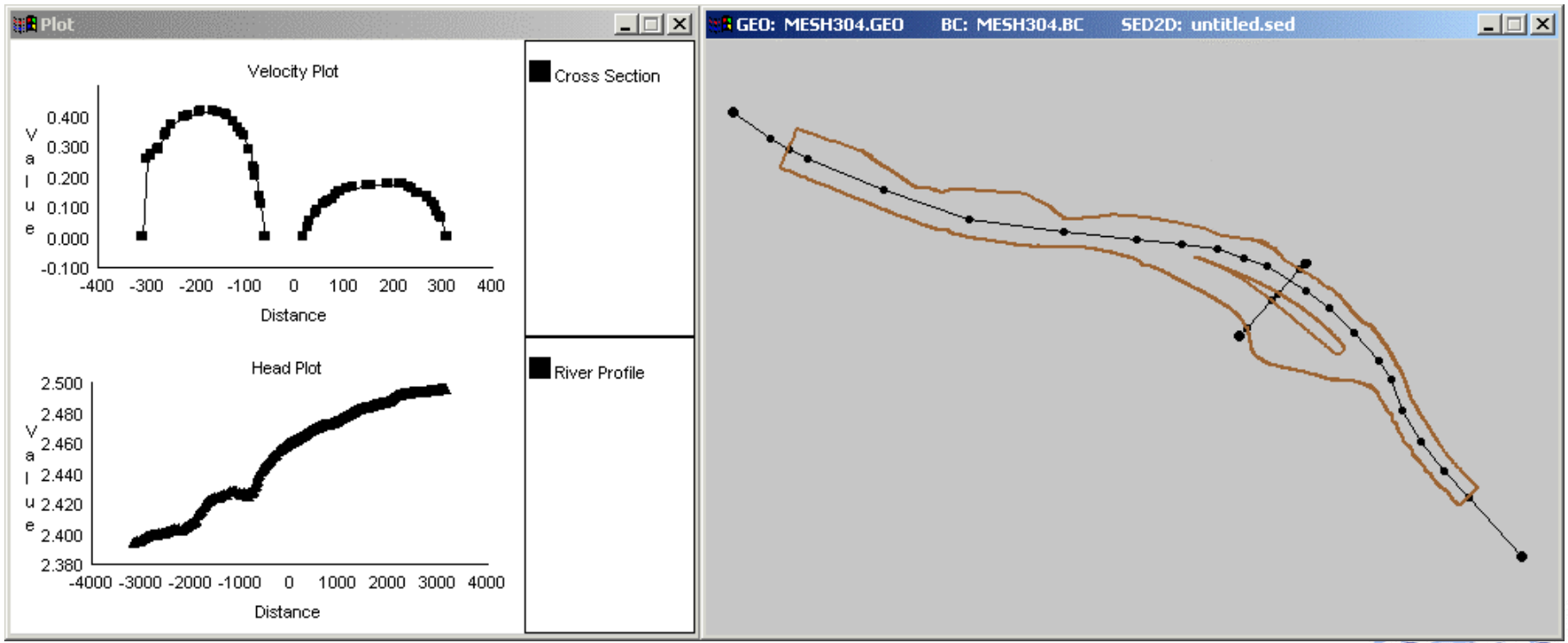
Observation Plots



Plot Options



Observation Profiles



Data and Modules

	Scatter Module	Map Module	Mesh Module
Background Data	Scatter Points (xyz)	Image	
	Scatter Sets (TINs)	DXF	
Conceptual Data		Feature Pts/Nodes	
		Arcs/Vertices	
		Polygons	
Mesh Data			Nodes
			Elements
			Nodestrings
Visualization		Observation Coverage	Data Sets on Nodes
		Observation Profiles	