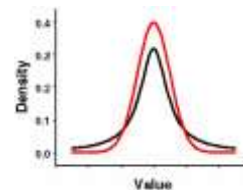
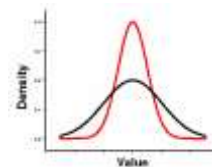
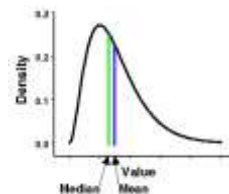


Exploratory Spatial Data Analysis (ESDA)

Summary Statistics

- Location
 - Mean, median, mode
 - Quantiles: quartiles, percentiles
- Spread
 - Variance, standard deviation
- Shape
 - Skewness – positive , negative
 - Kurtosis – leptokurtic, platykurtic



Voronoi Map (Thiessen Polygons)

- Why use a Voronoi map?
- ArcGIS tools
 - Proximity toolbox: Create Thiessen Polygons
 - Geostatistical Analyst toolbar: Voronoi map
- Assigning values to polygons

Local Smoothing

Mean

Mode

Median

Local Variation

Standard deviation

Interquartile range

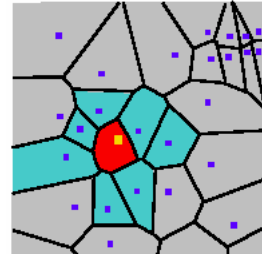
Entropy

Local Outliers

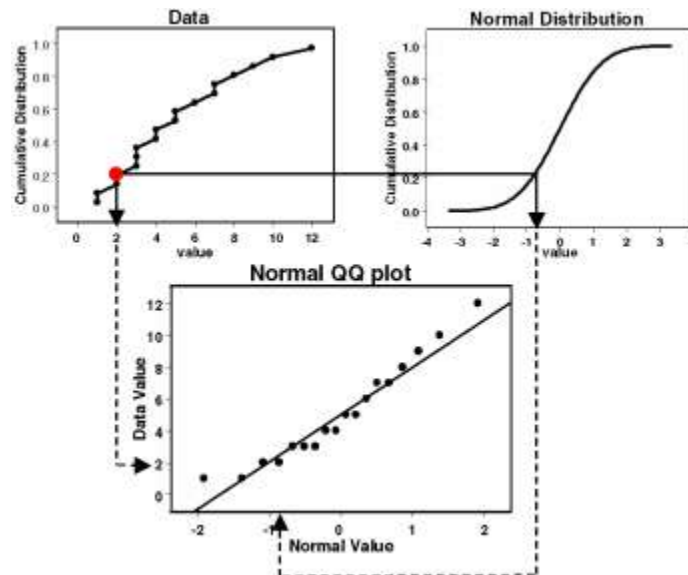
Cluster

Local Influence

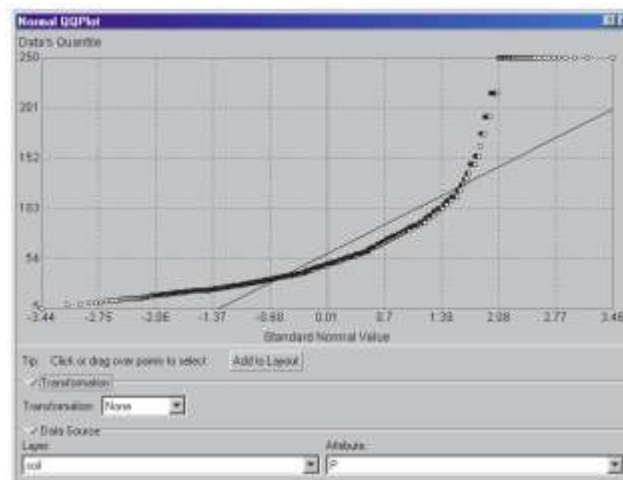
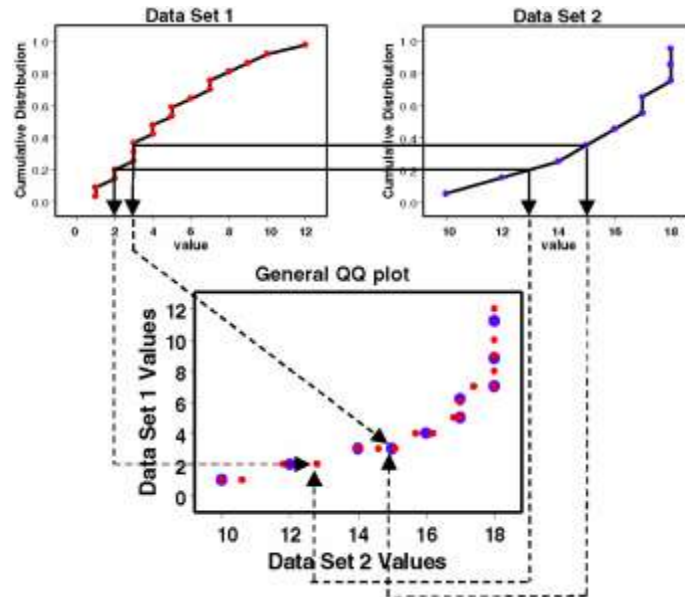
Simple



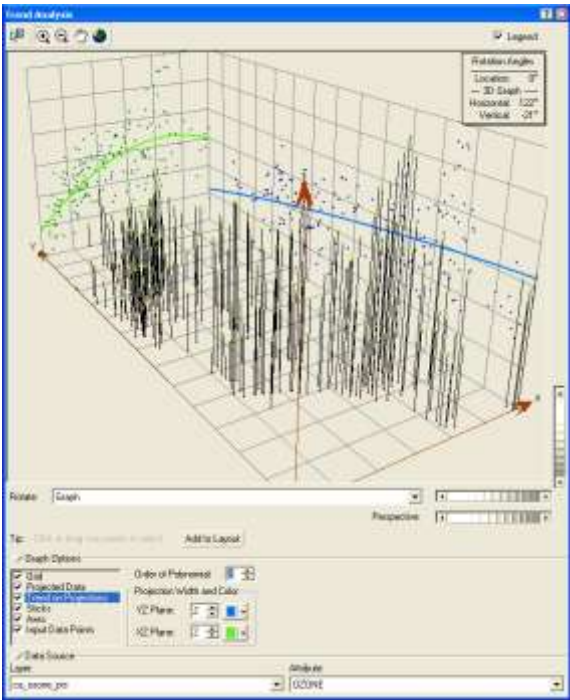
Comparing Distributions – Normal QQPlot



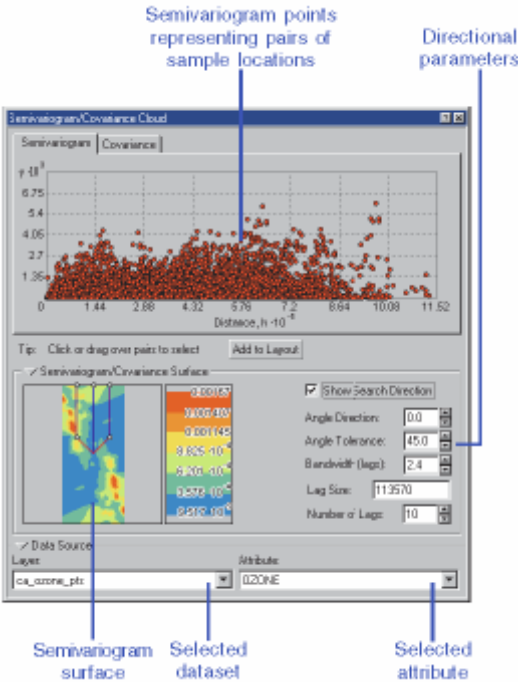
Comparing Distributions – General QQPlot



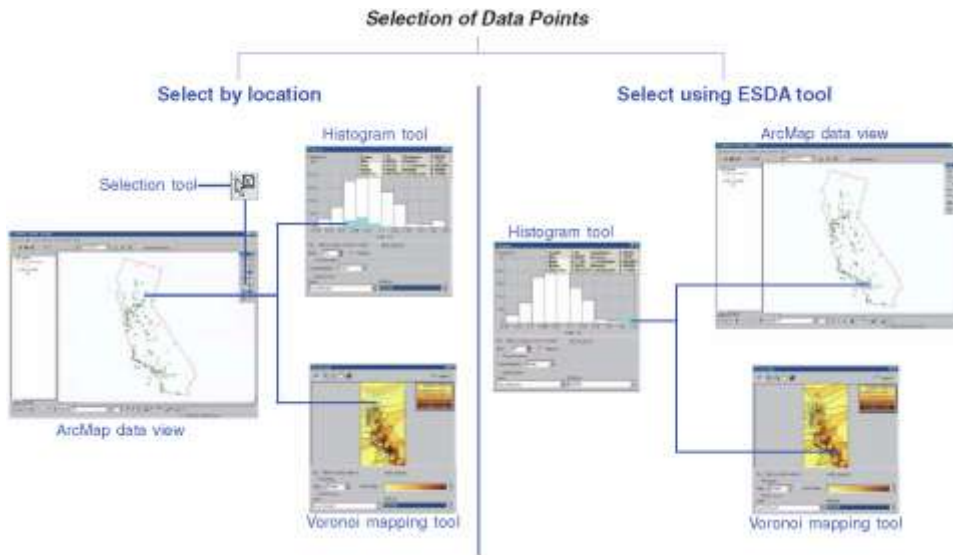
Trend Analysis



Semivarogram Cloud



Brushing & Linking



Crosscovariance Cloud

