COA 615 Geostatistics in Environmental Sciences Homework 3

Assigned: September 27, 2016

Due: Oct 4, 2016

In this homework, you will continue to examine data on atmospheric deposition in the upper Midwest and northeastern United States.

Perform a more detailed analysis of spatial variation in  $H^+$  deposition. You need to fit three different families of variograms model (Sph, Exp, Gau) to the empirical variogram computed by the variogram() function using weighted least squares. You may do the analysis on the original data or make a transformation (e.g. log data) if you like. Try different weight methods (fit.method = 1, 2, 6, 7). Choose the best model based on residual sum of squares.