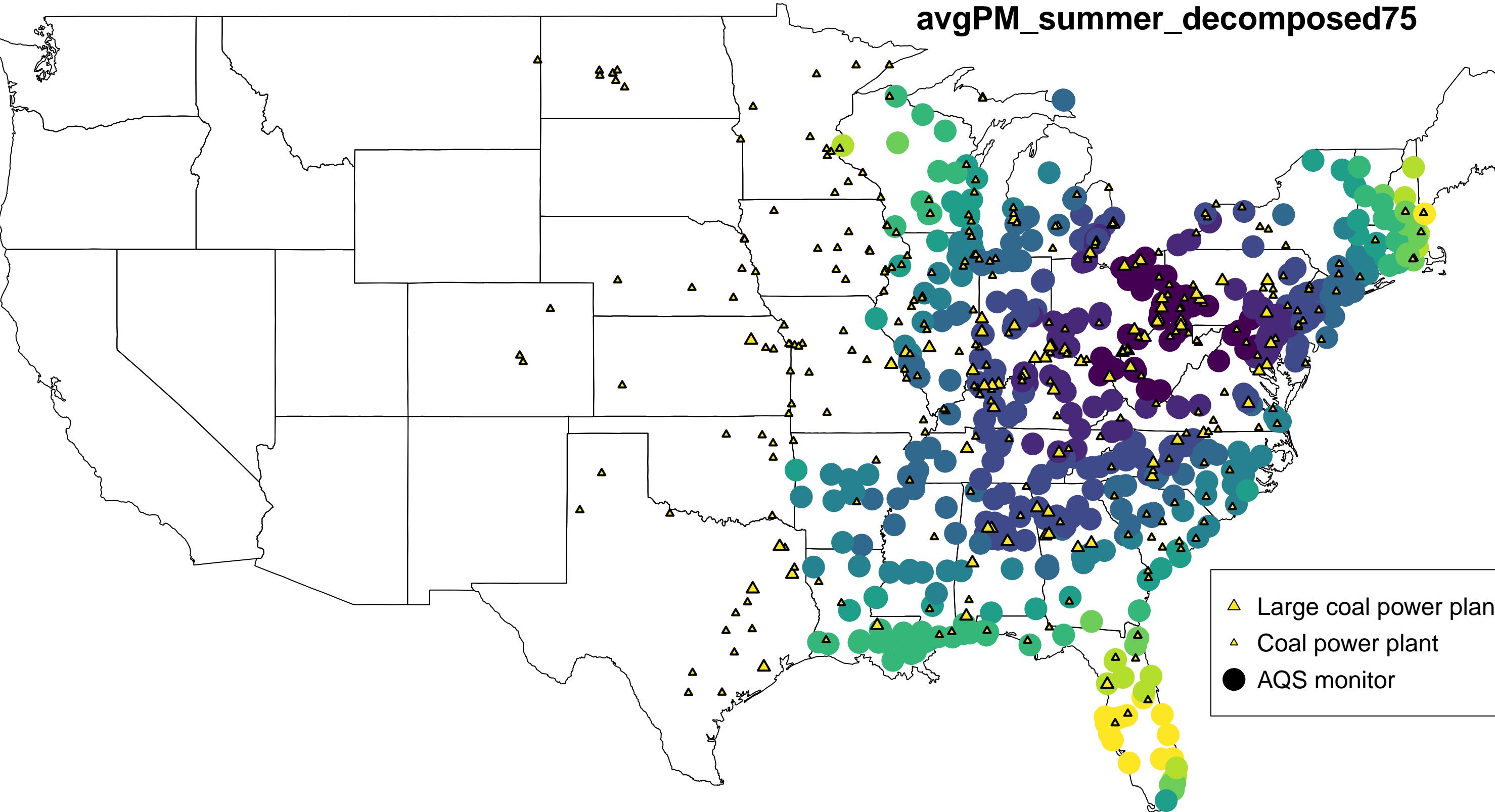


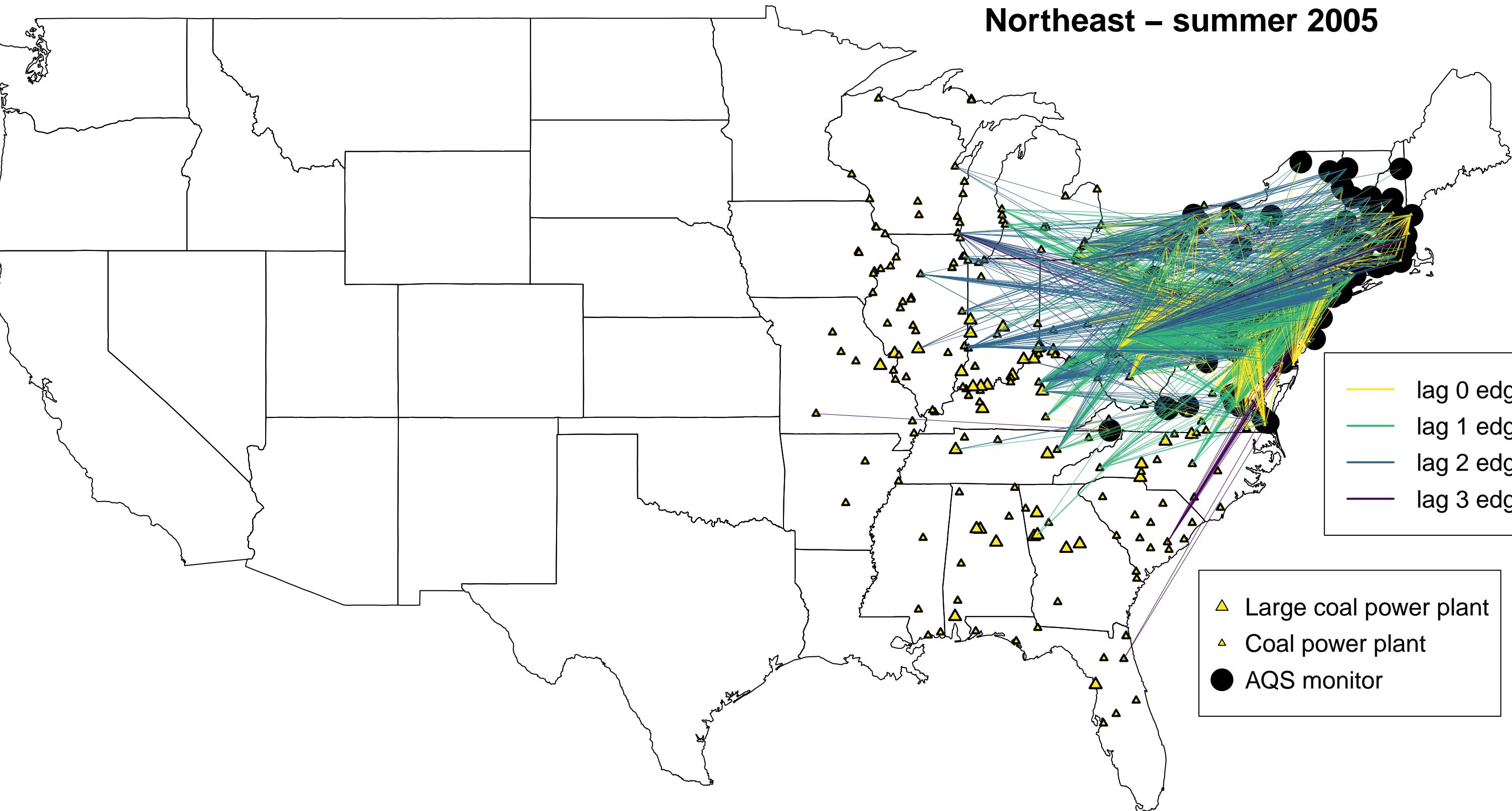
Coal power plants and AQS monitors



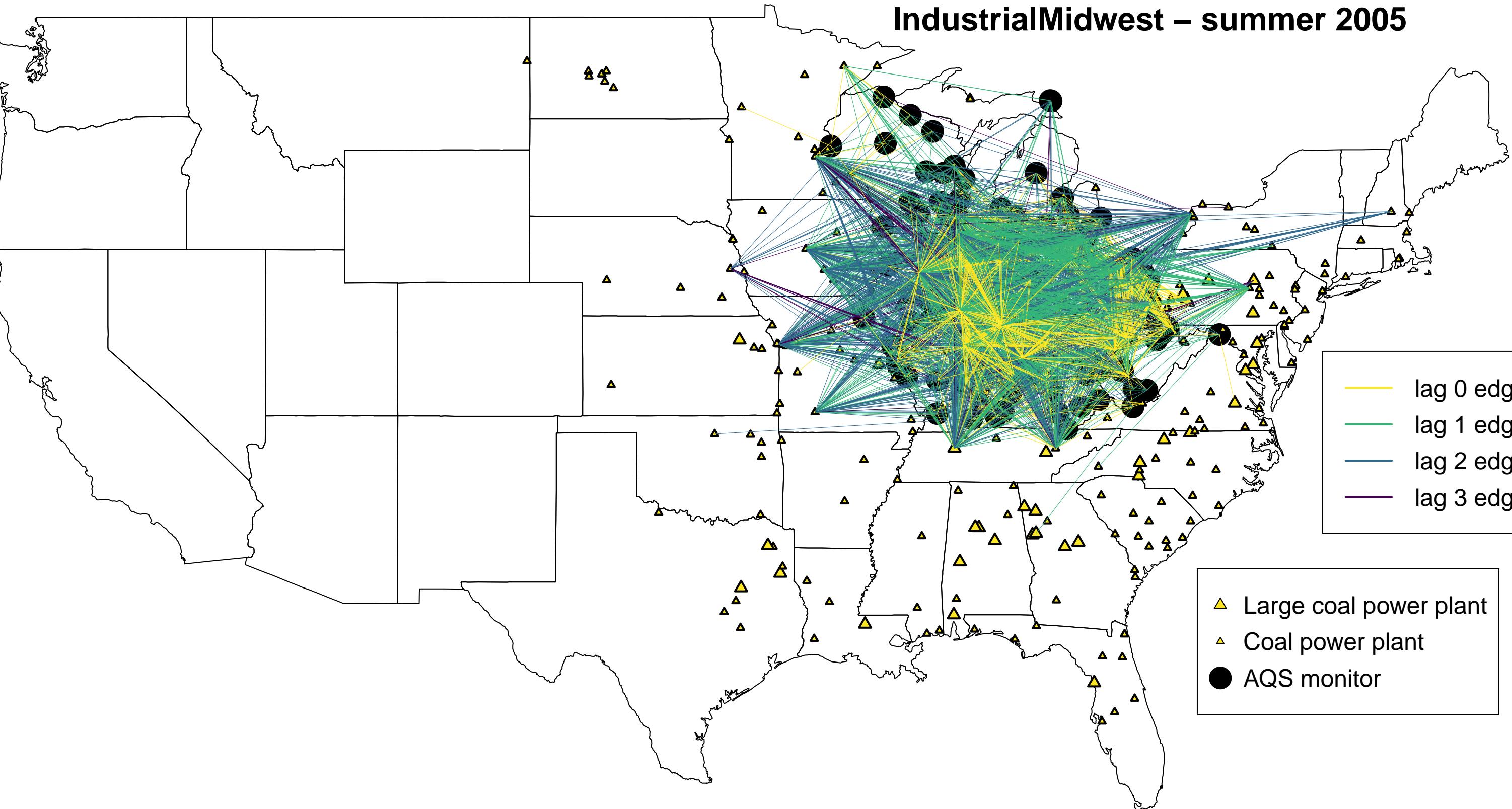
avgPM_summer_decomposed75



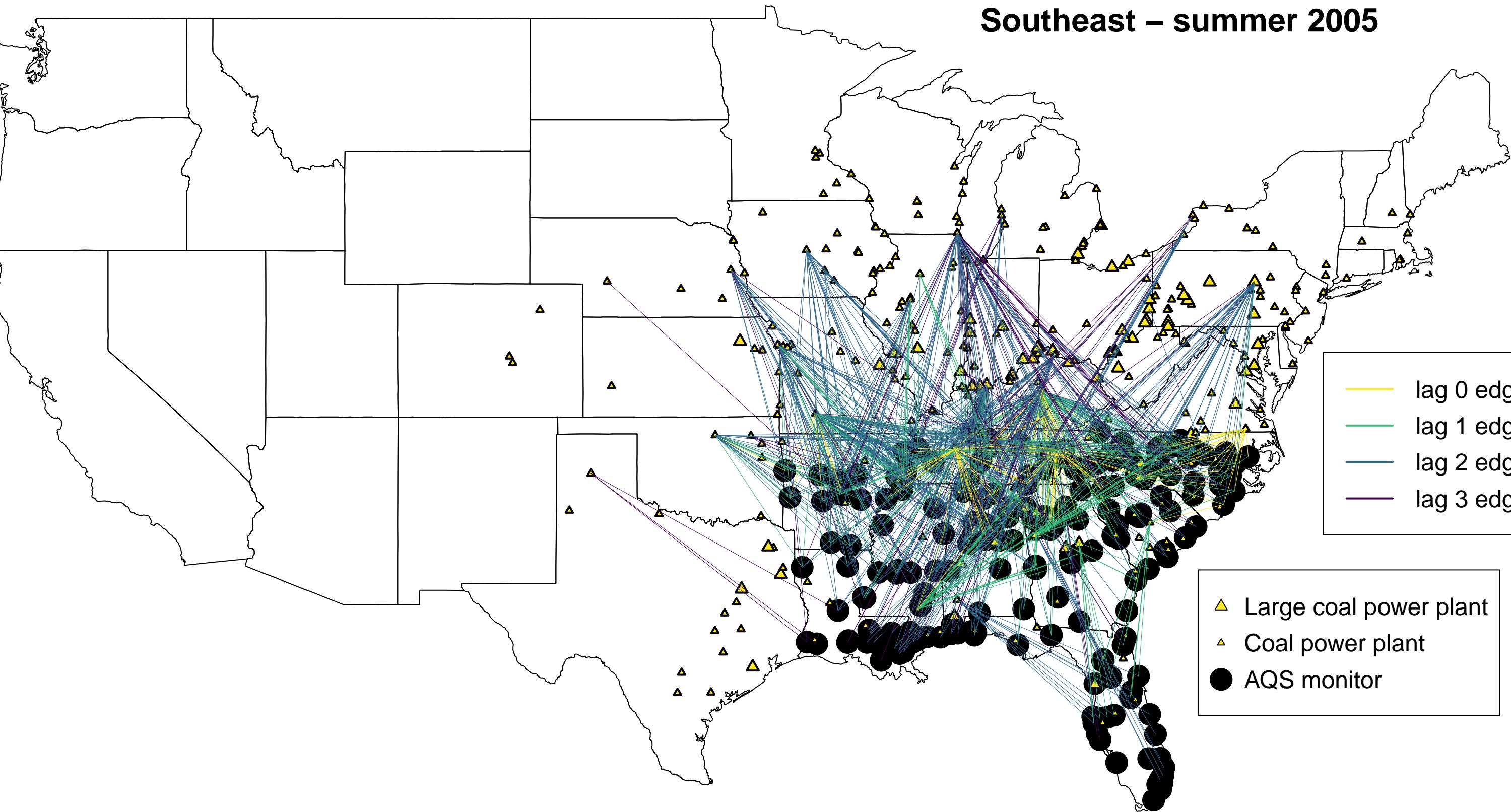
Northeast – summer 2005



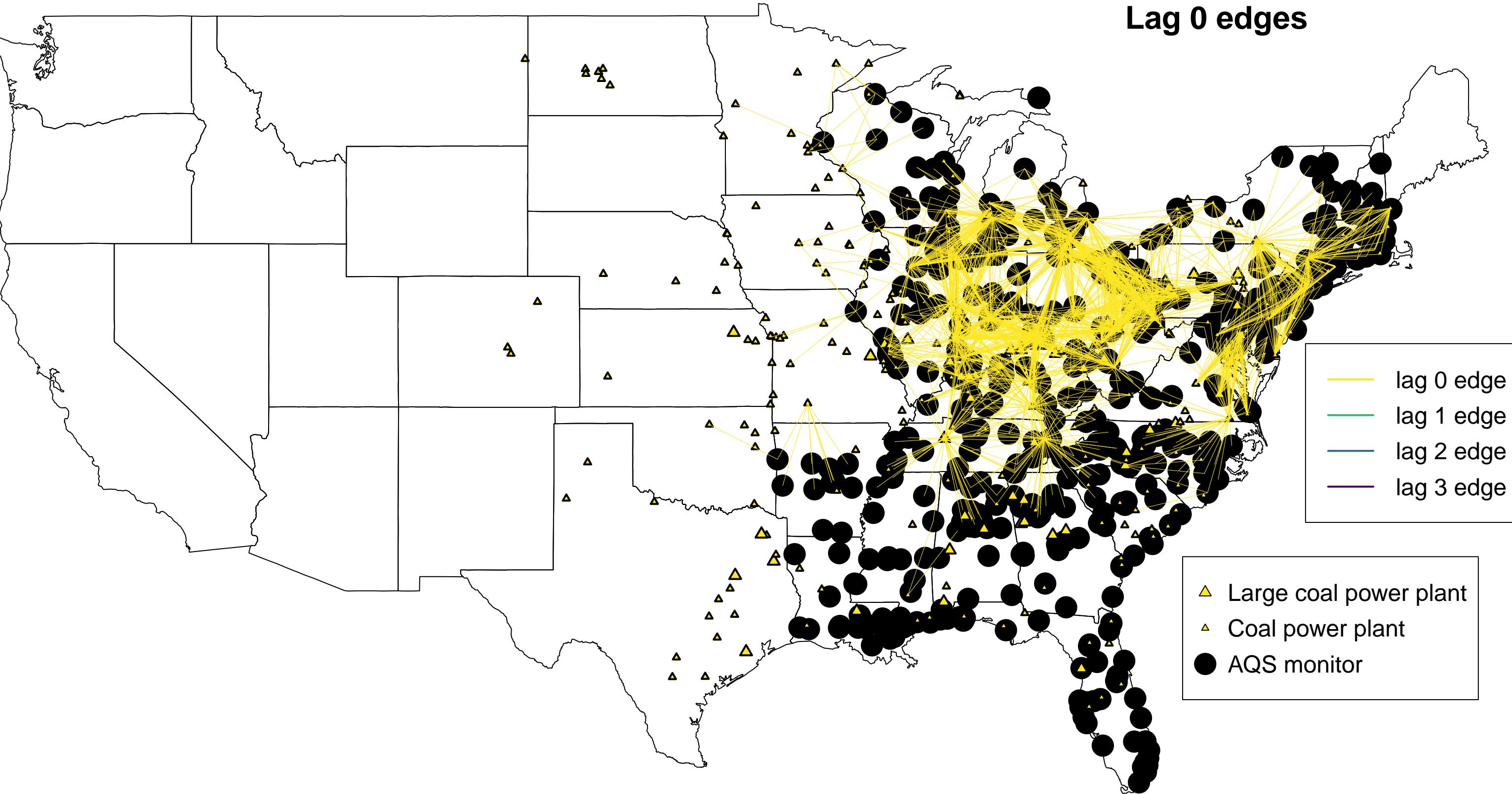
IndustrialMidwest – summer 2005



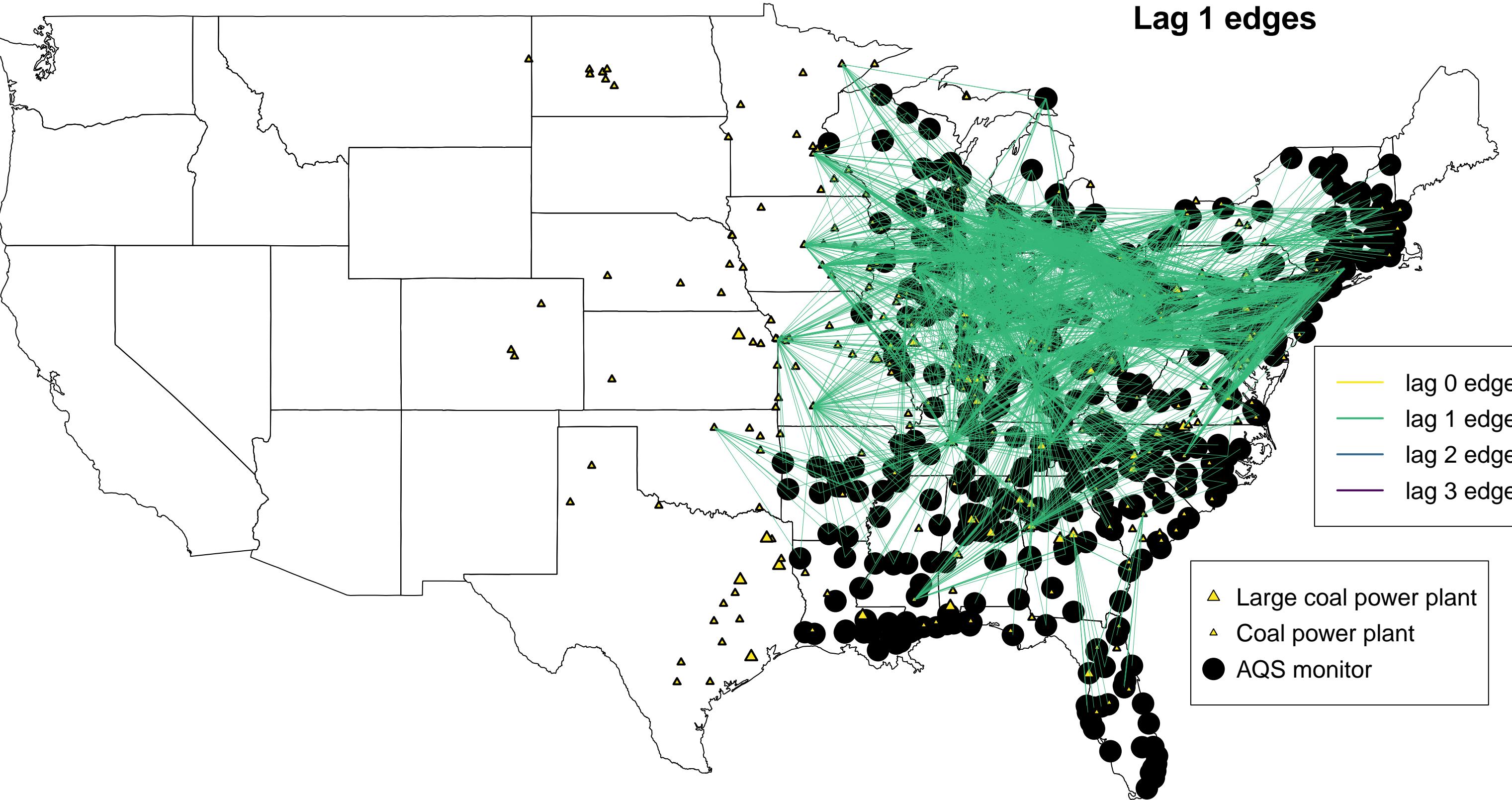
Southeast – summer 2005



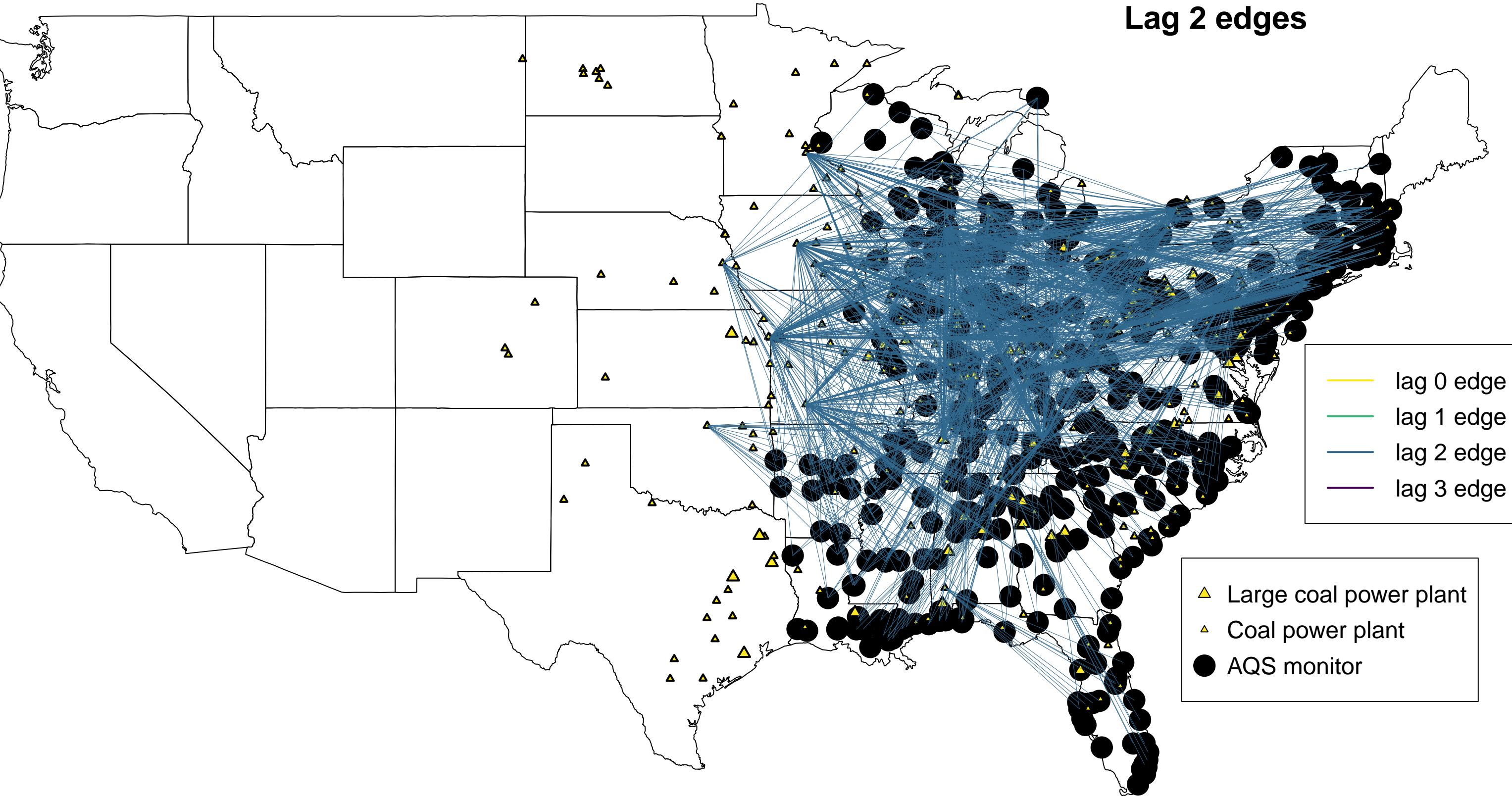
Lag 0 edges



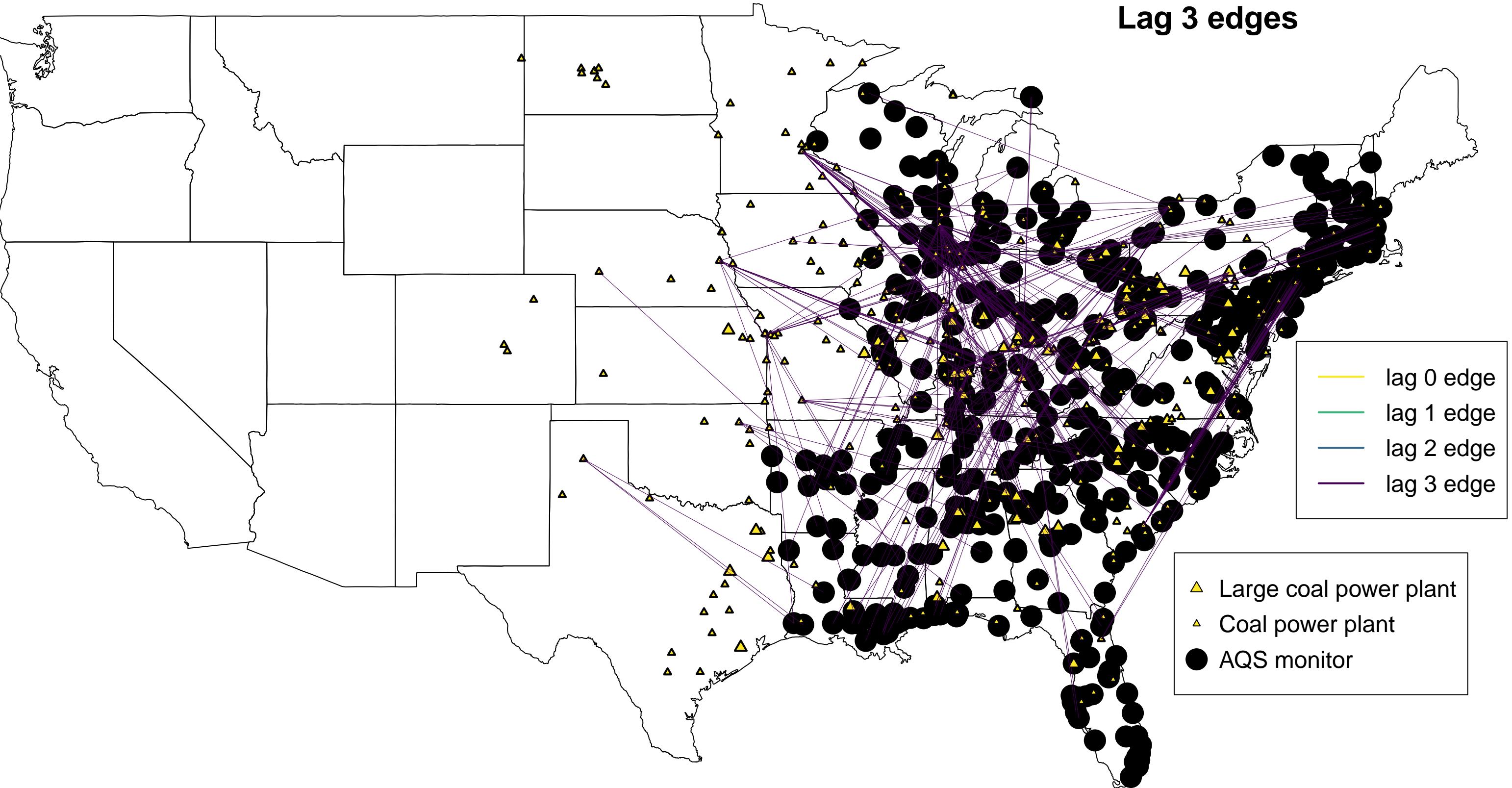
Lag 1 edges

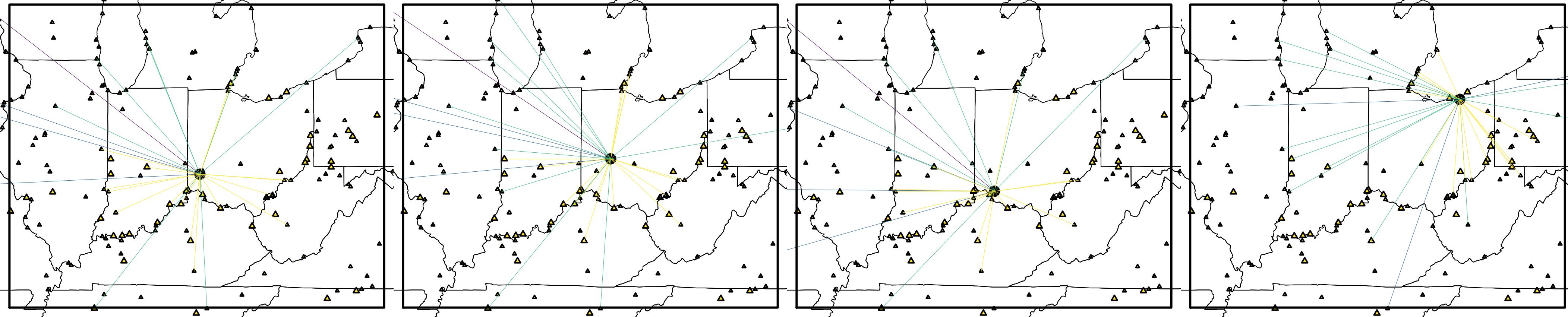


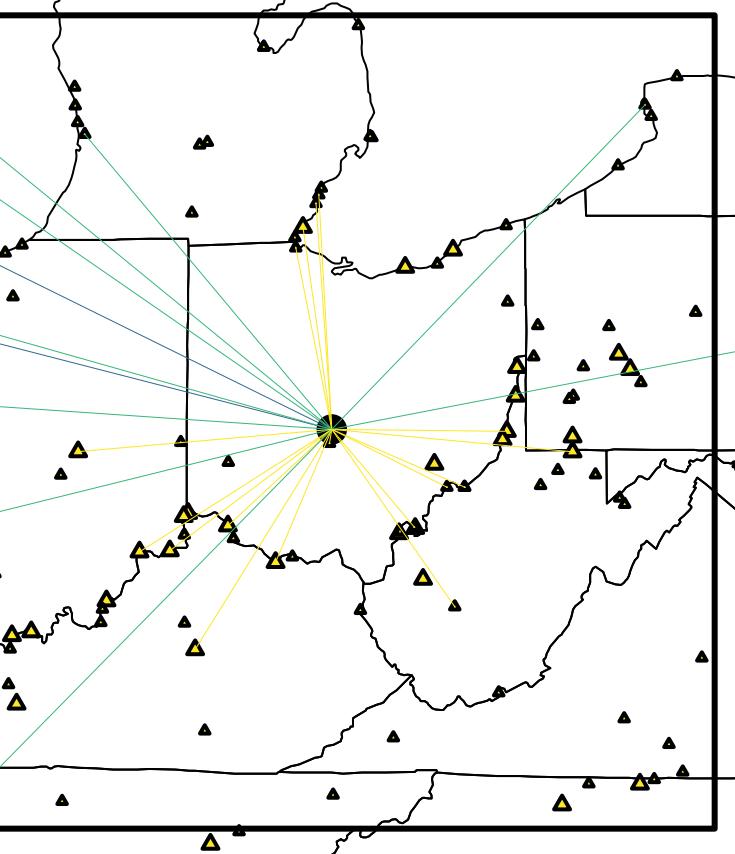
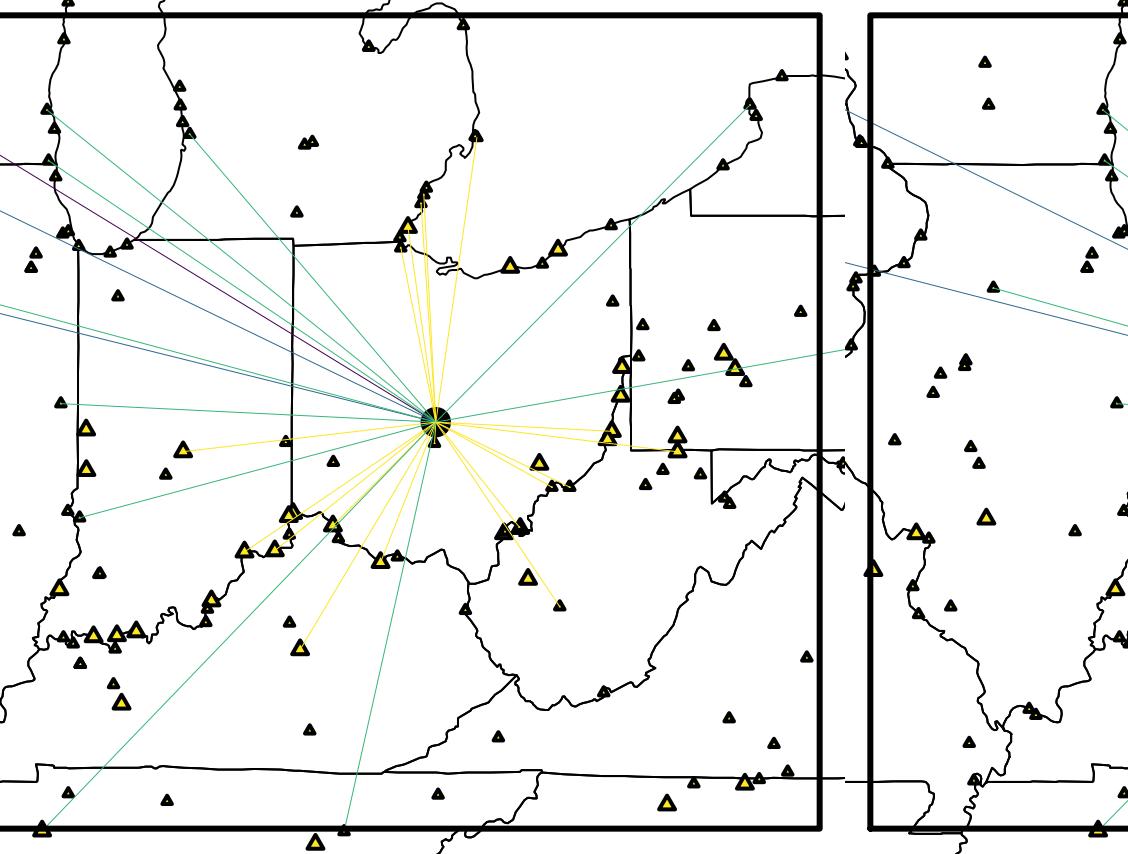
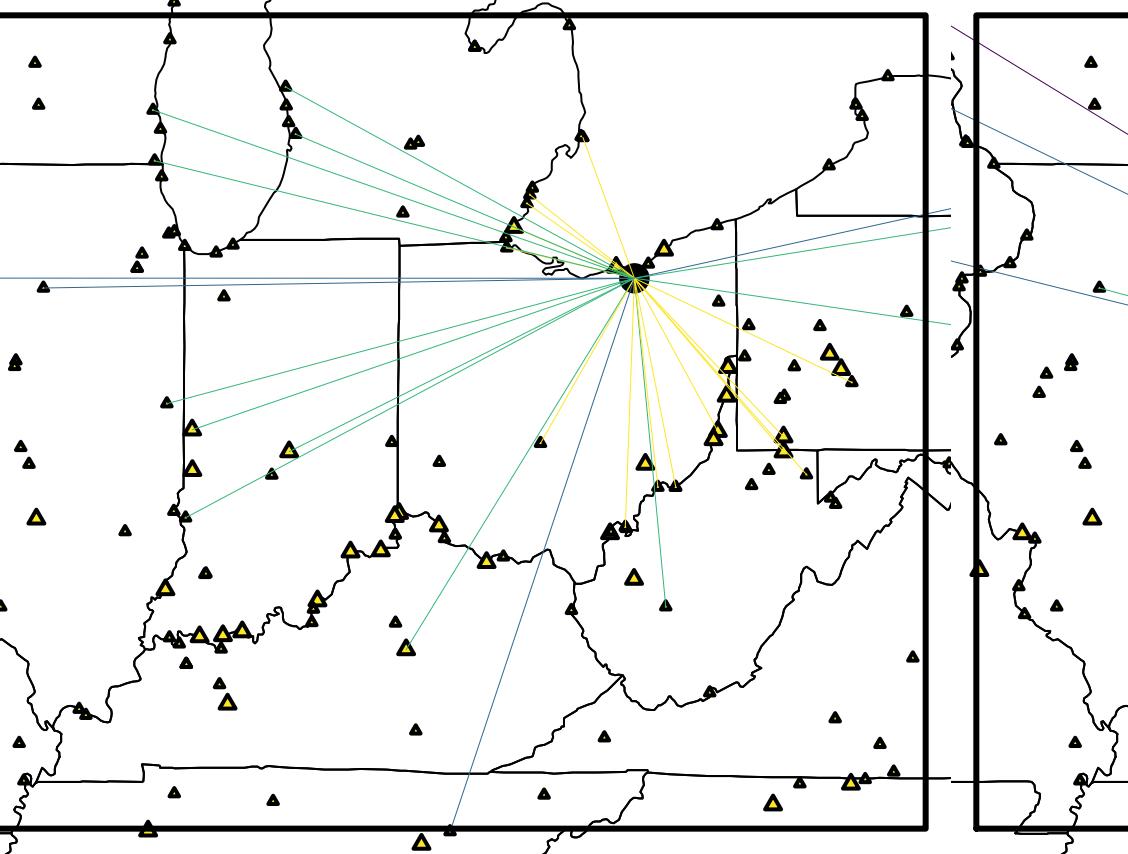
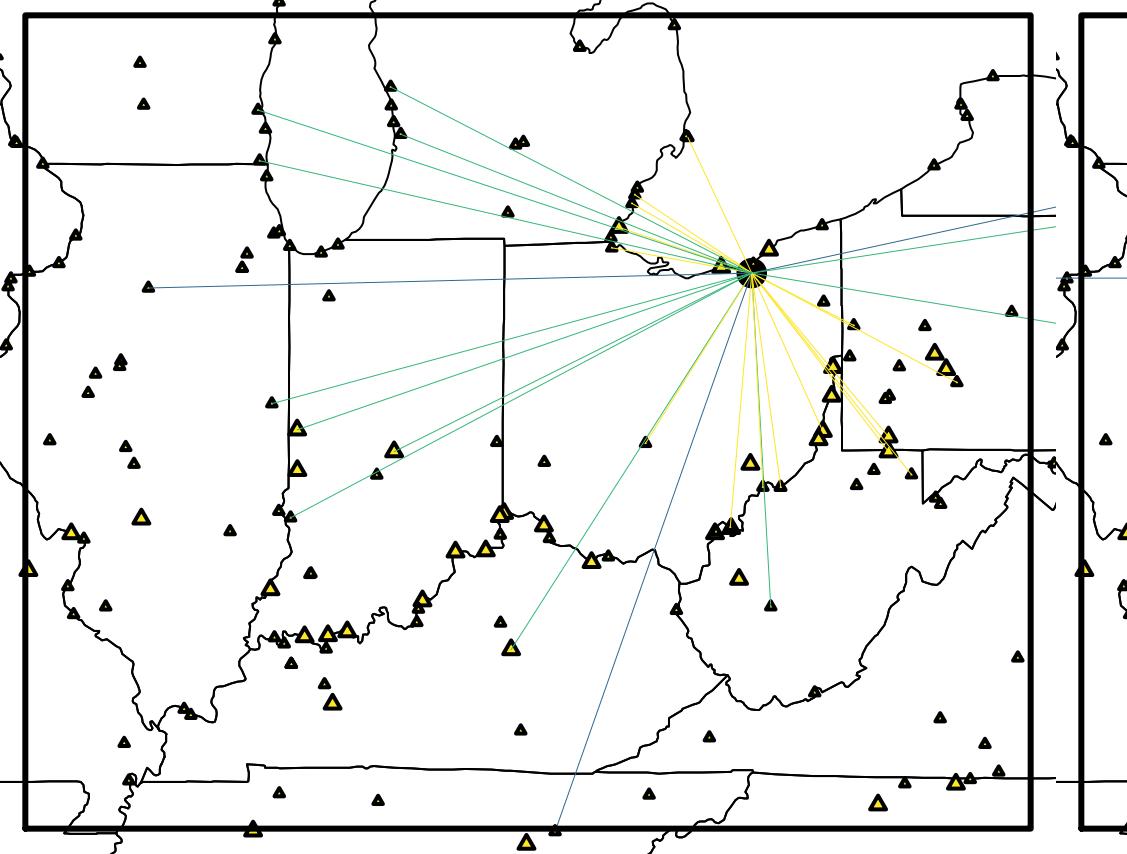
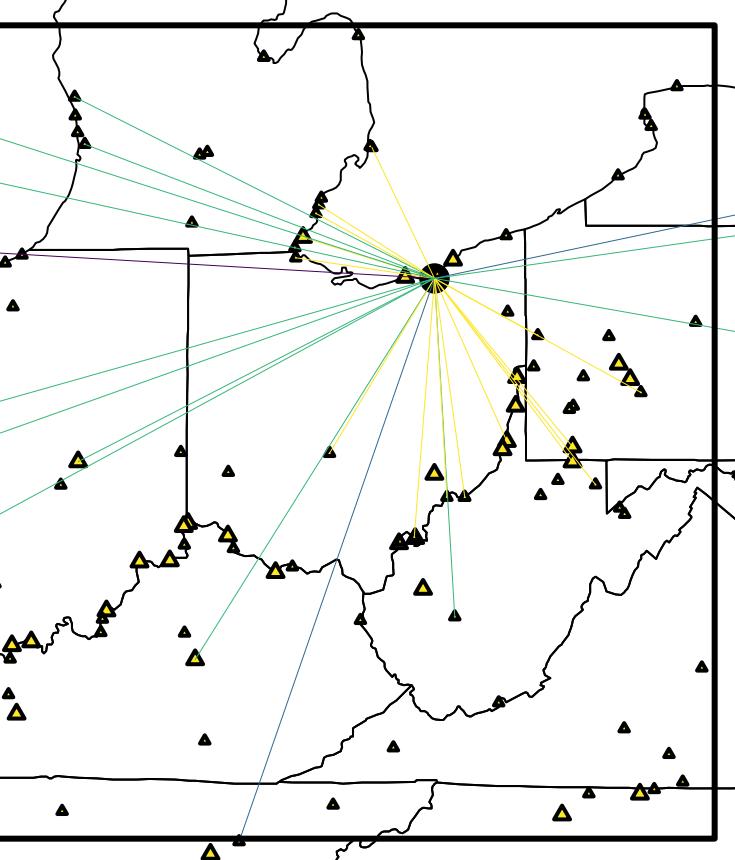
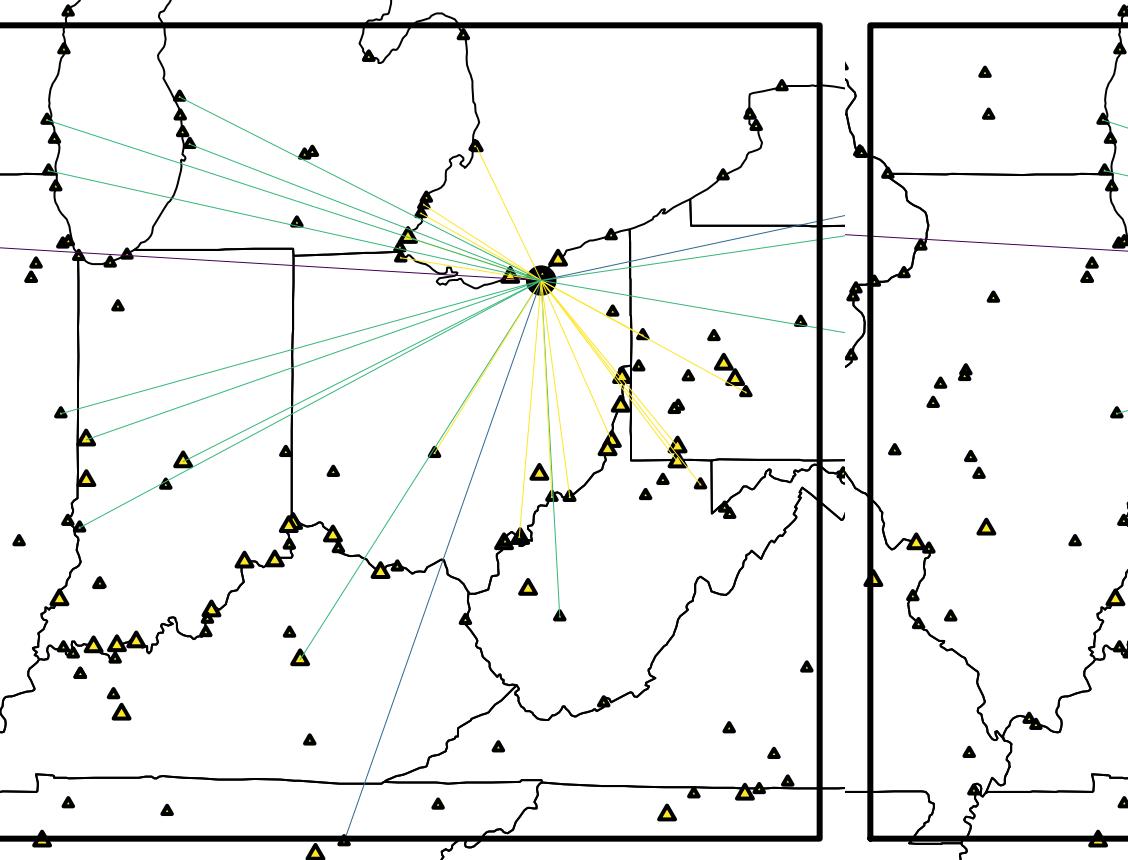
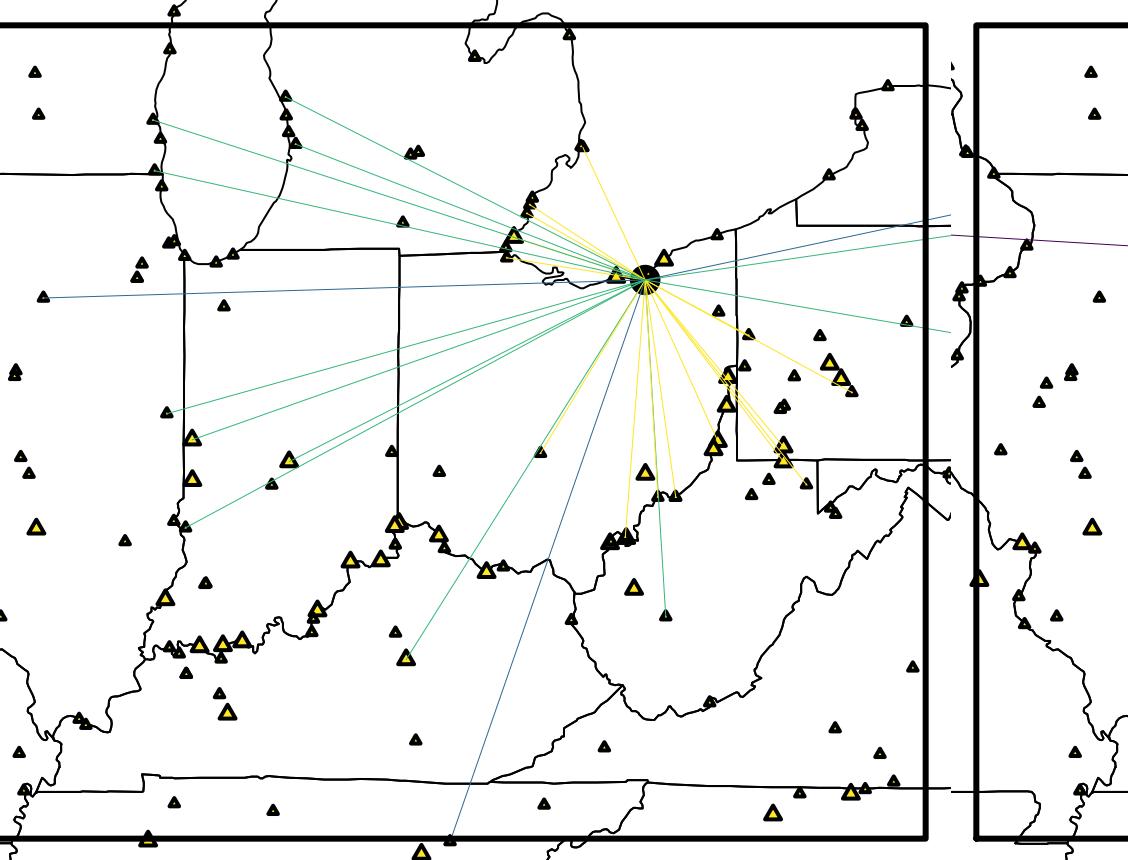
Lag 2 edges

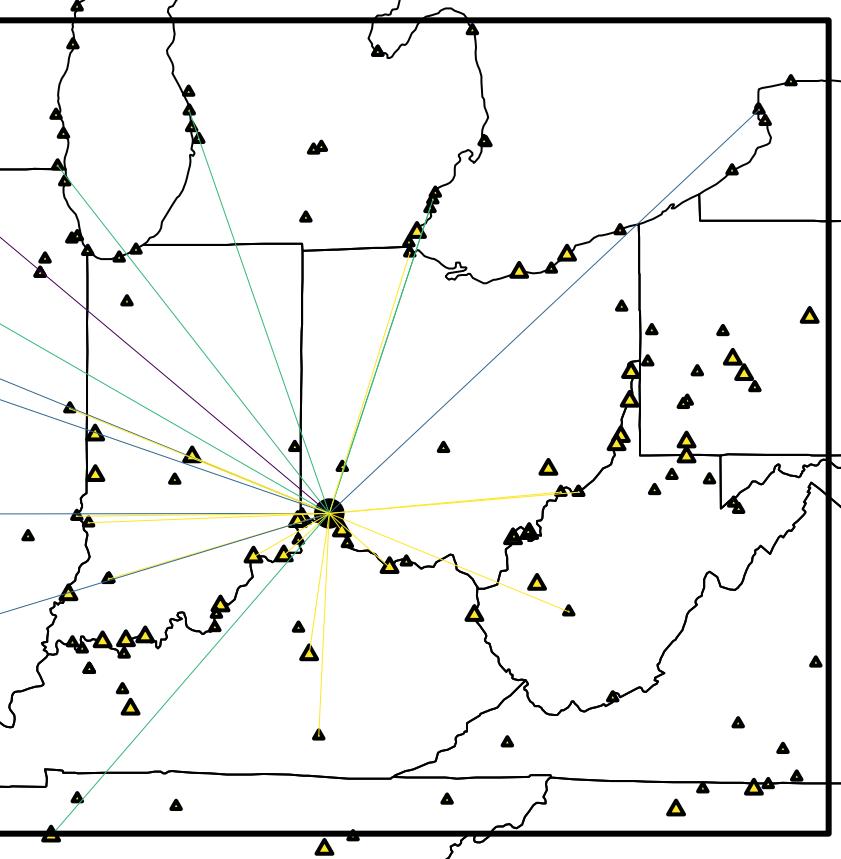
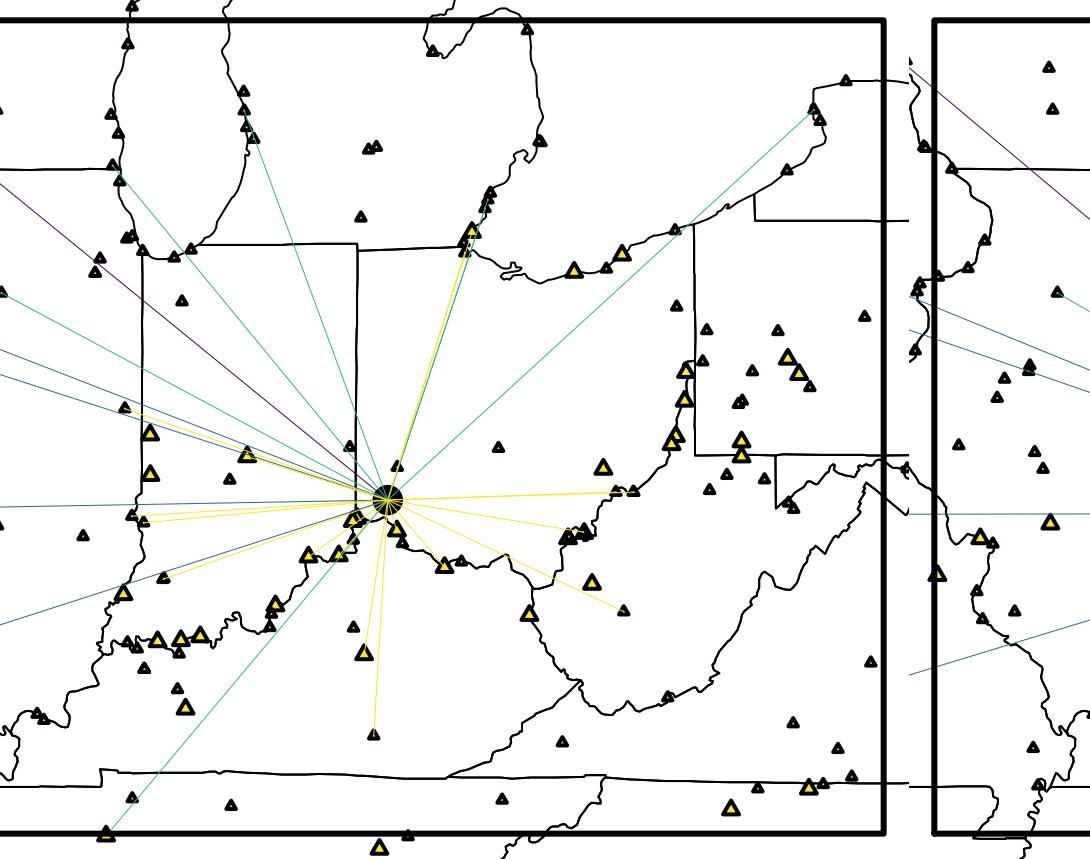
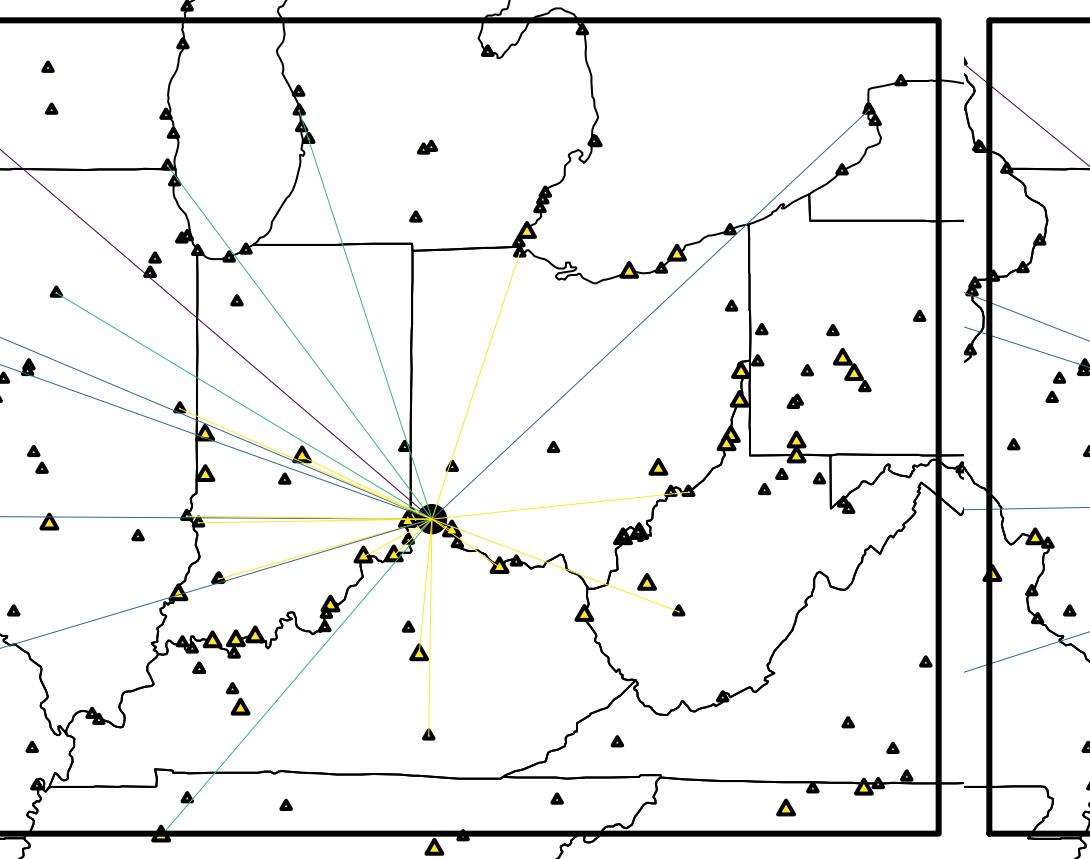
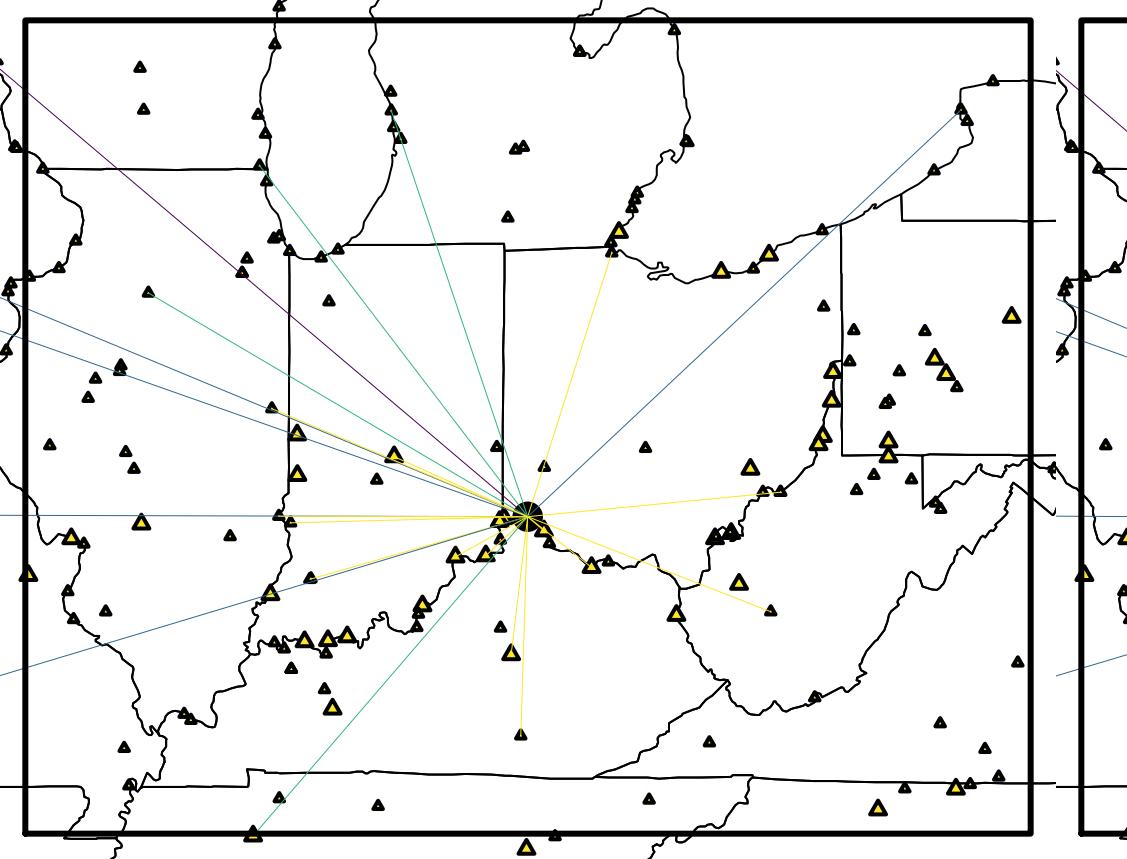
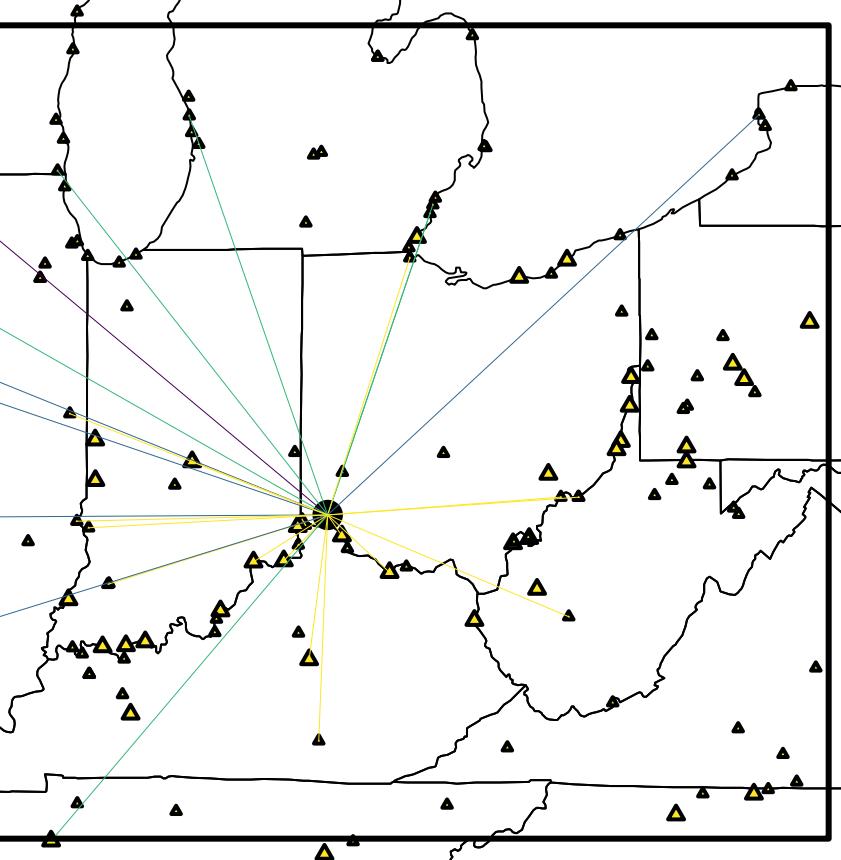
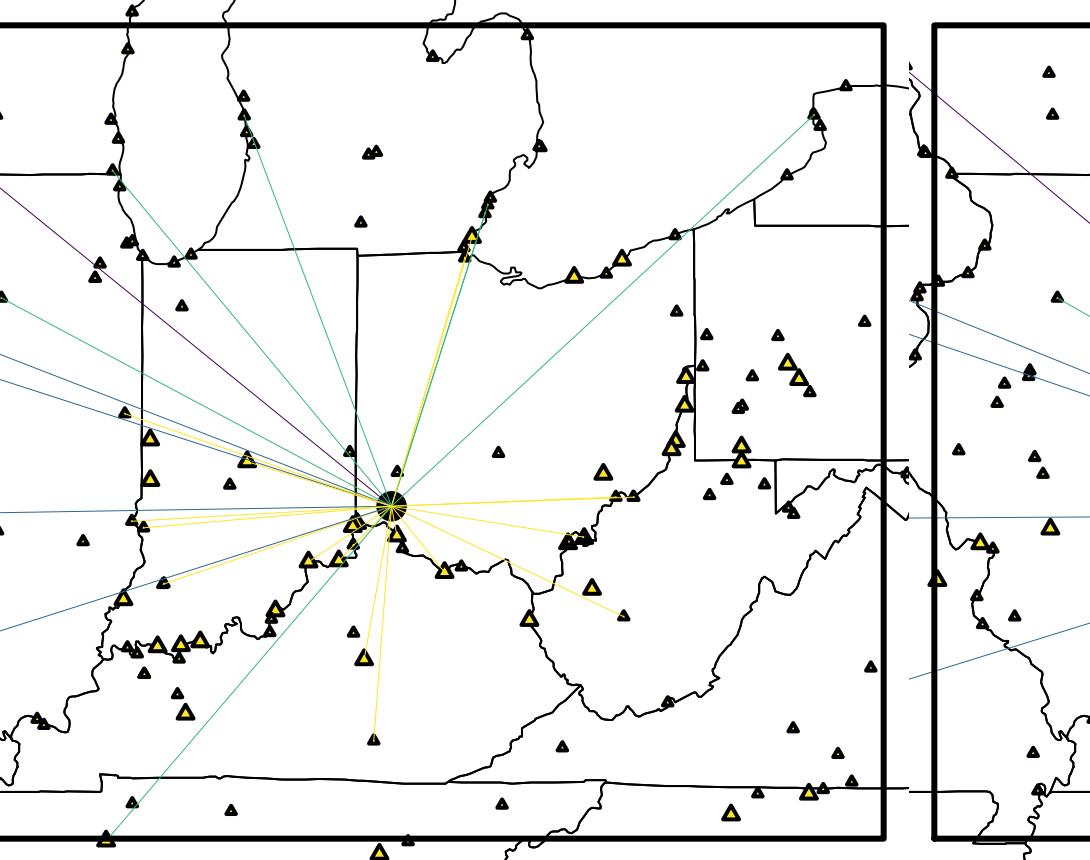
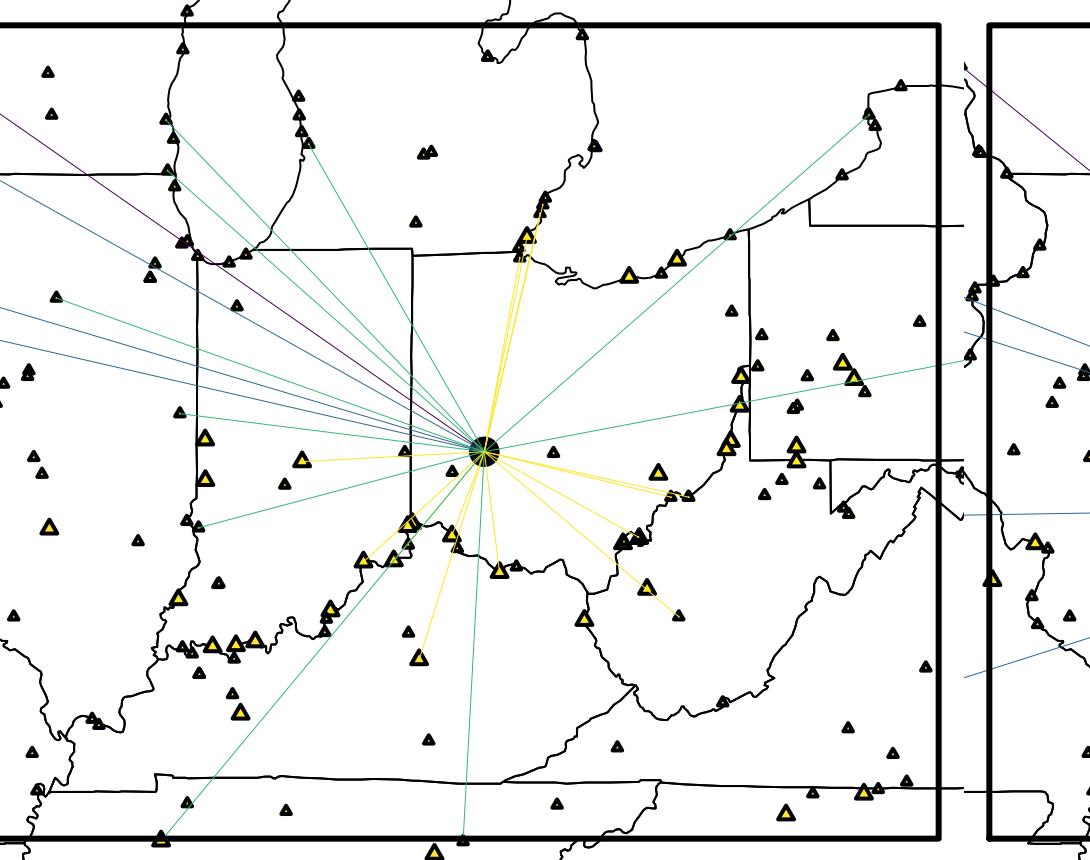
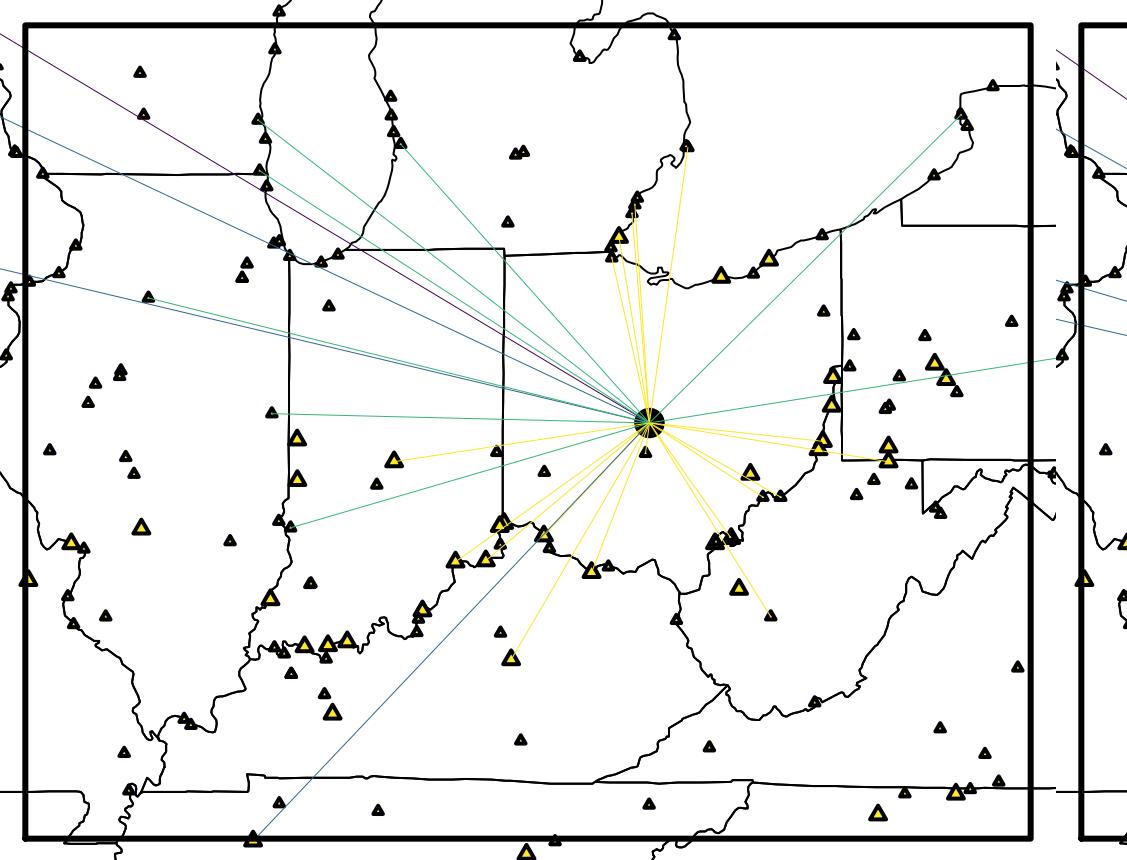


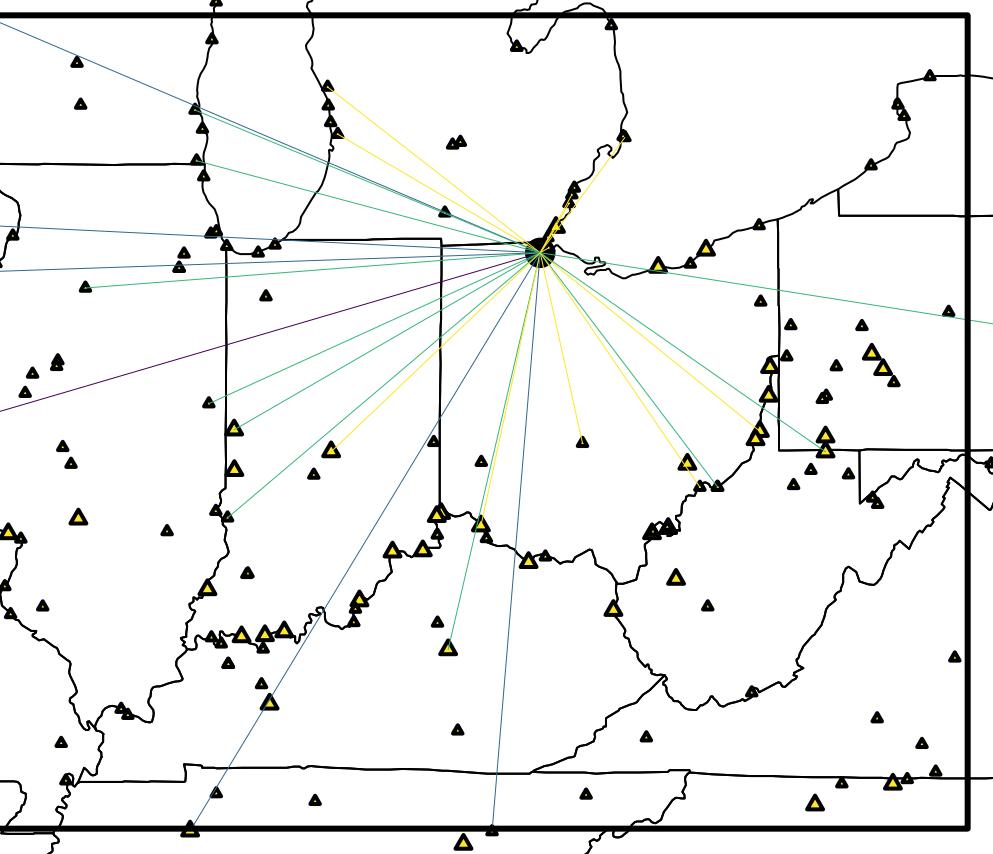
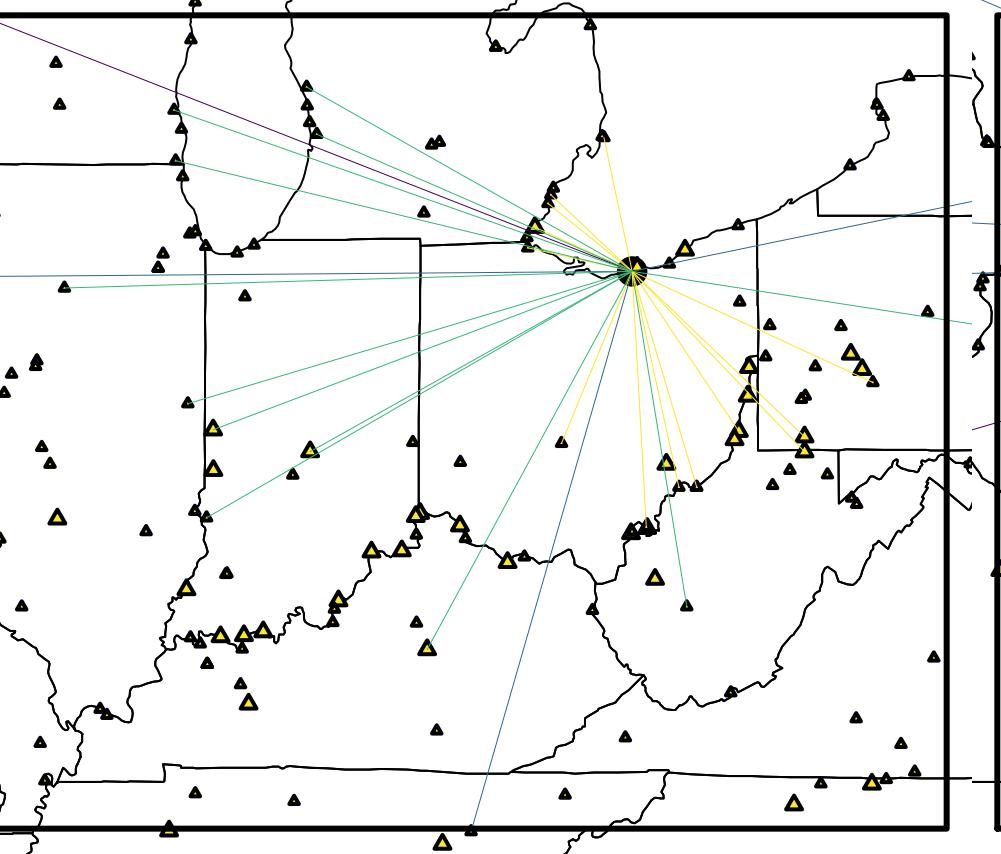
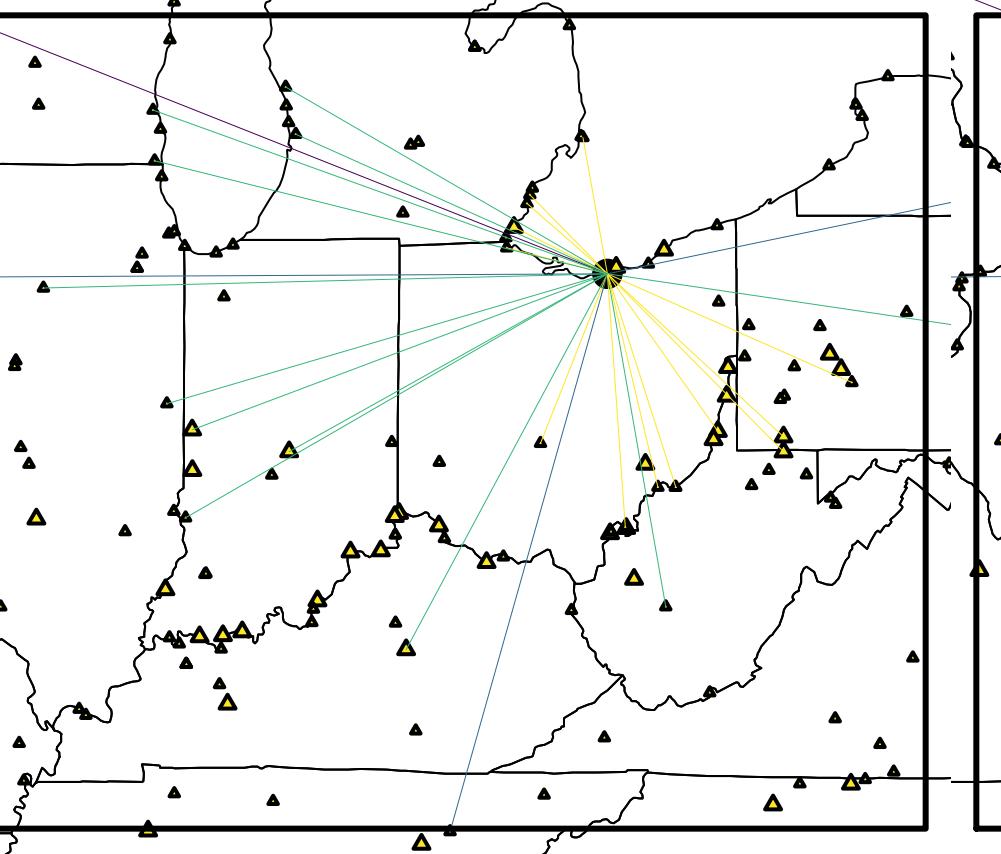
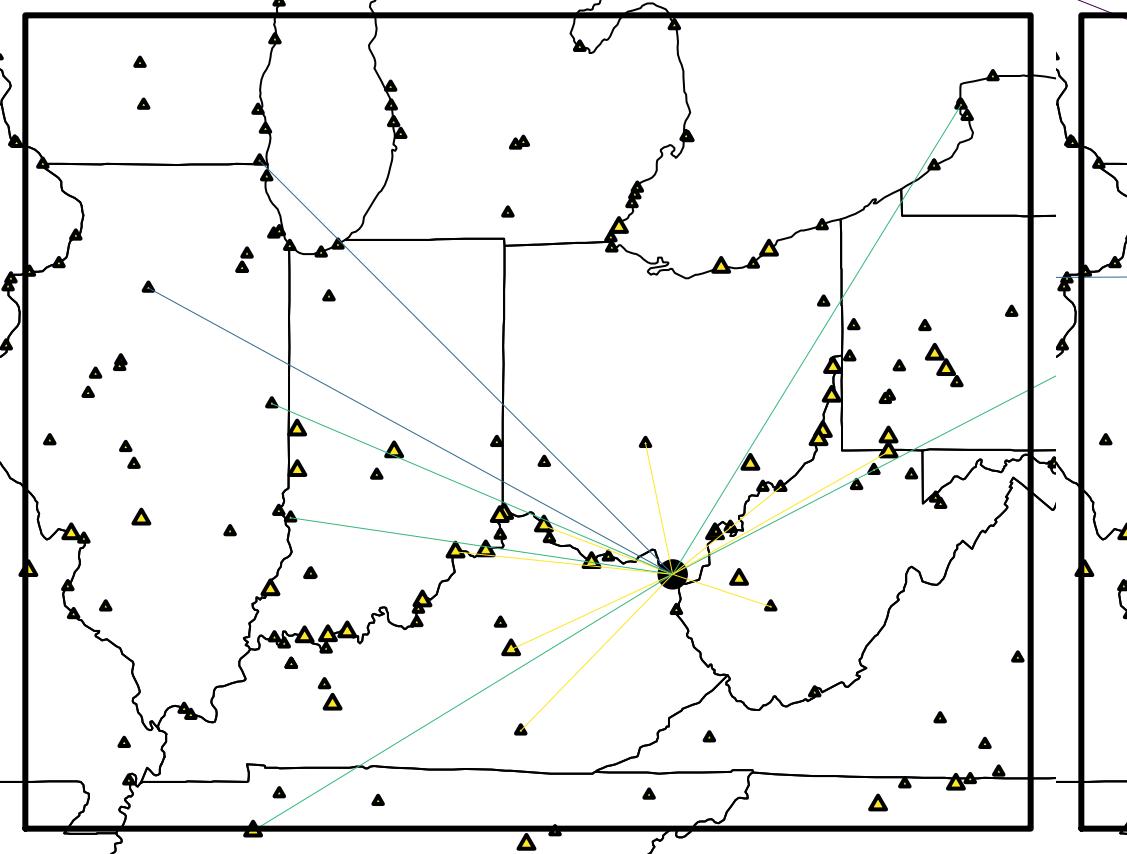
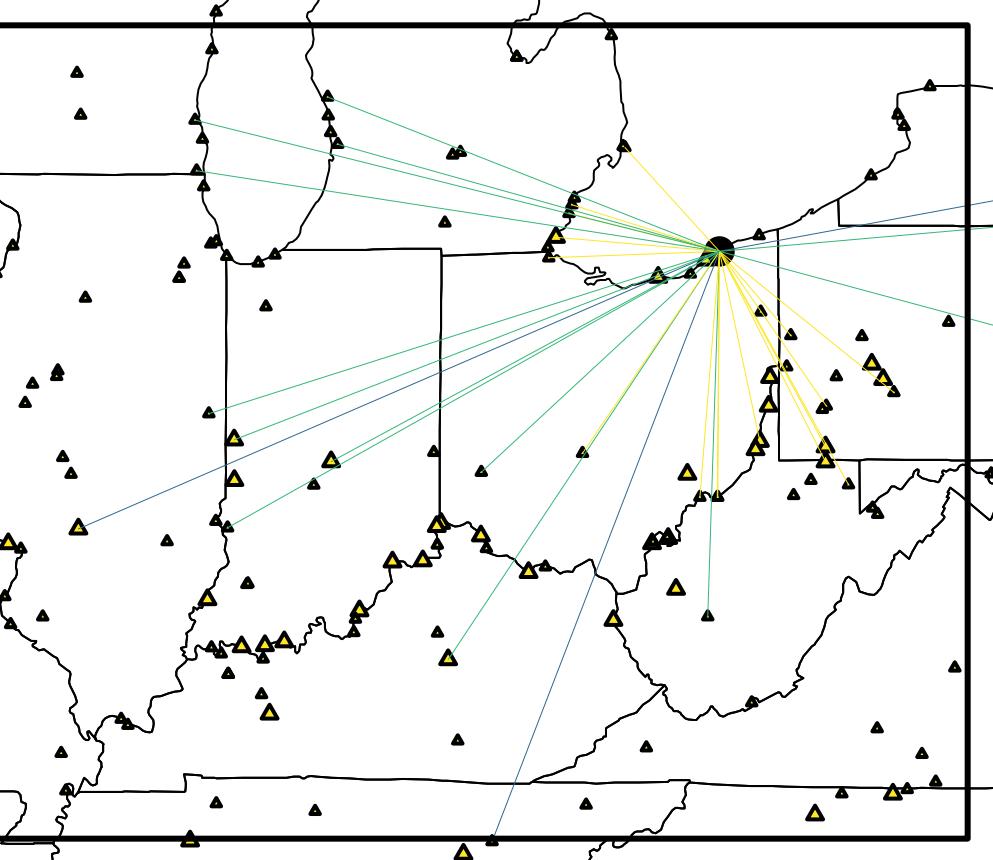
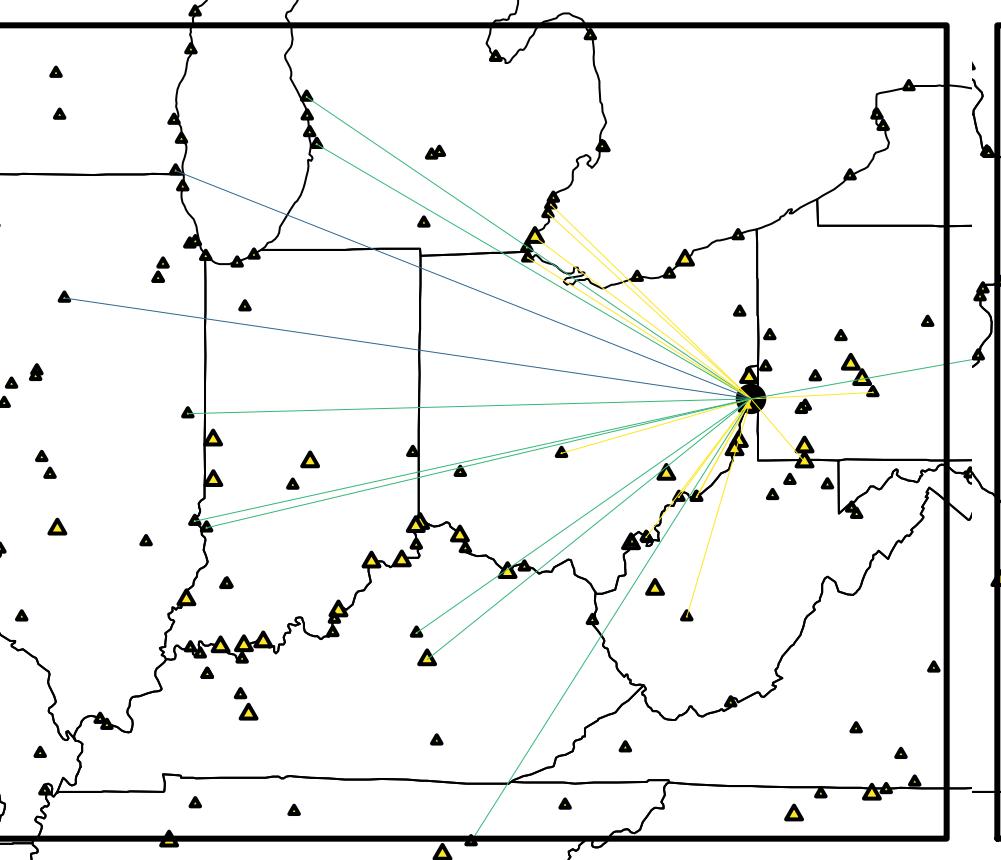
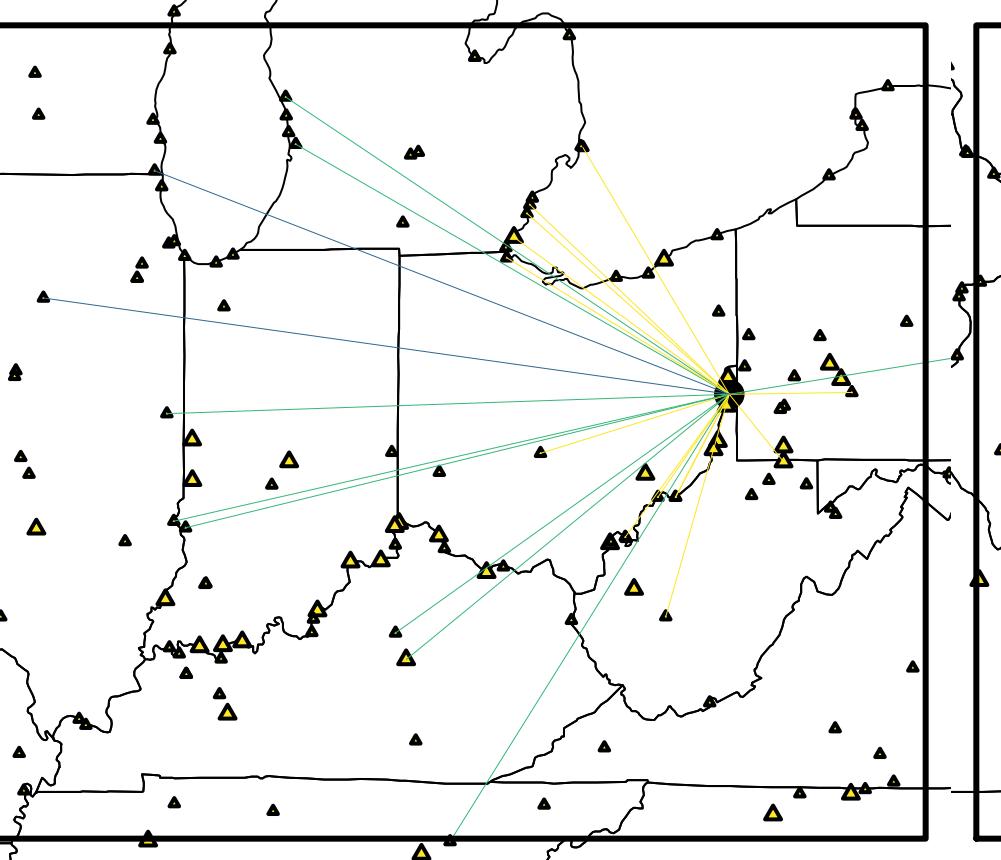
Lag 3 edges

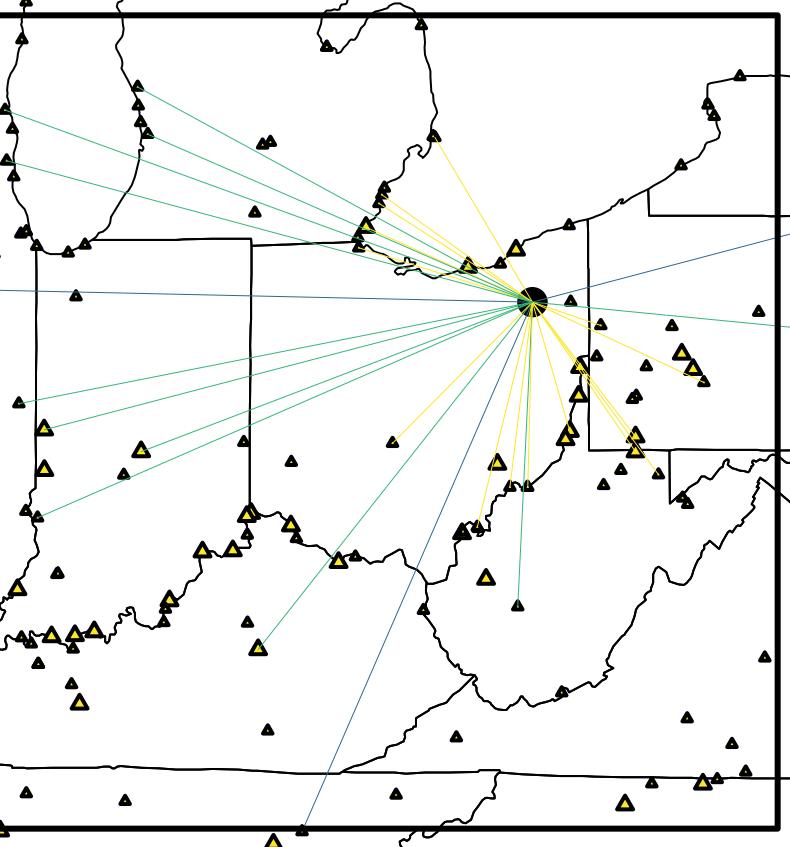
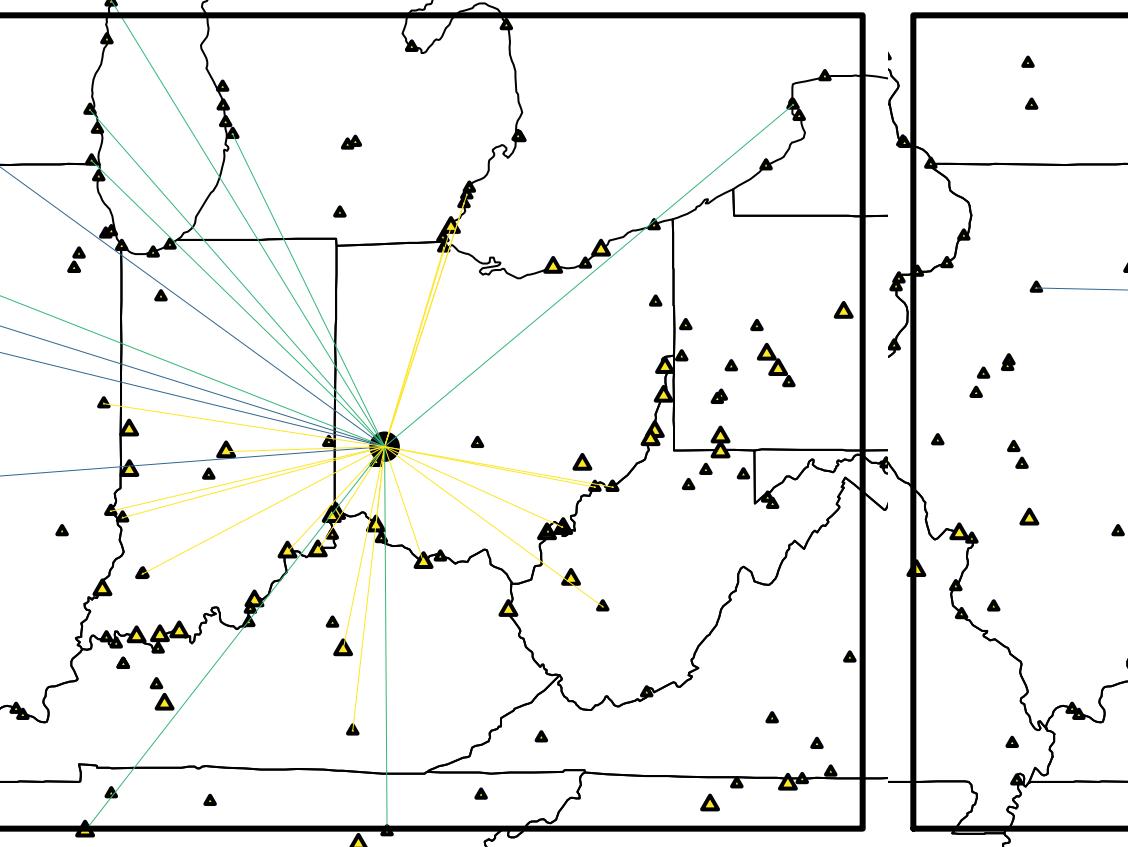
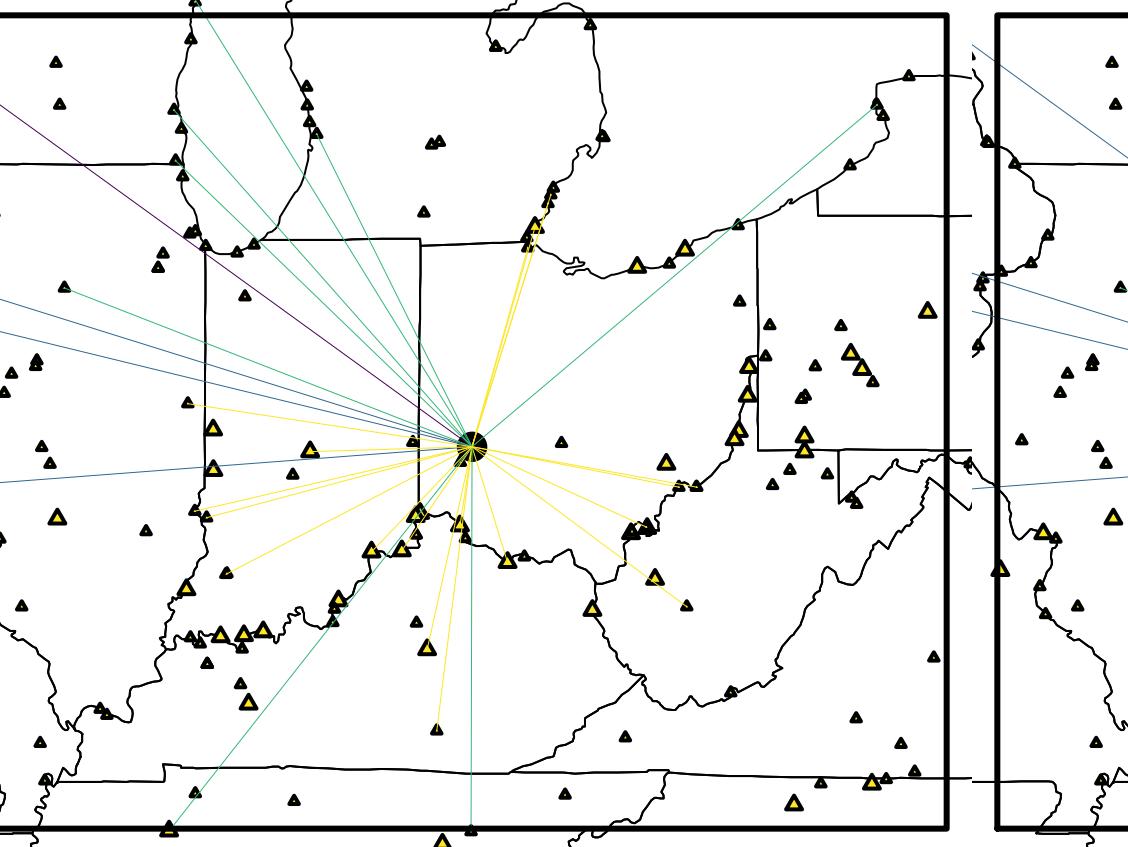
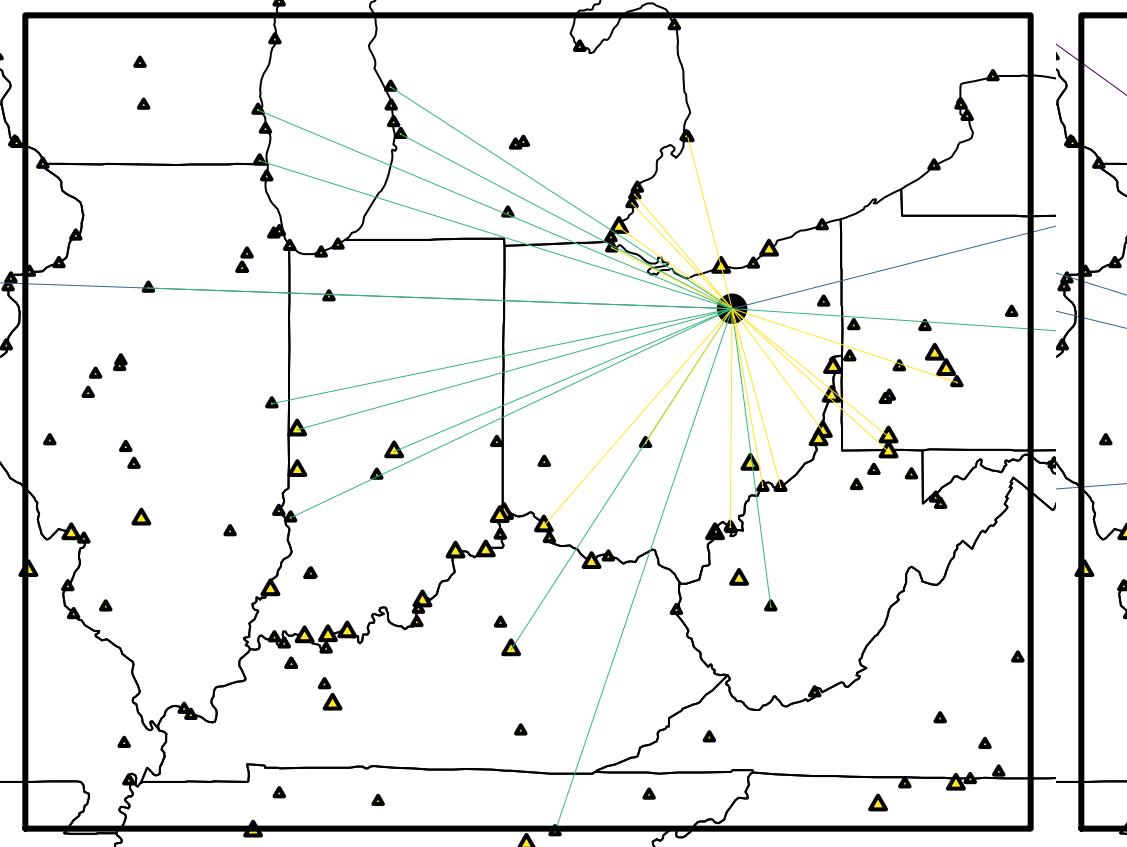
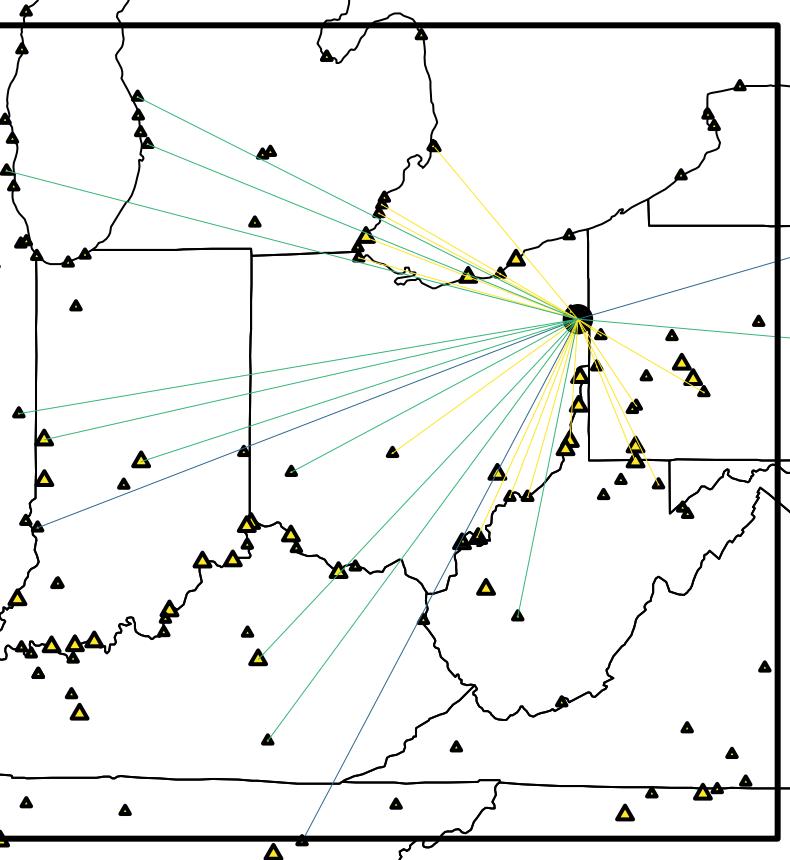
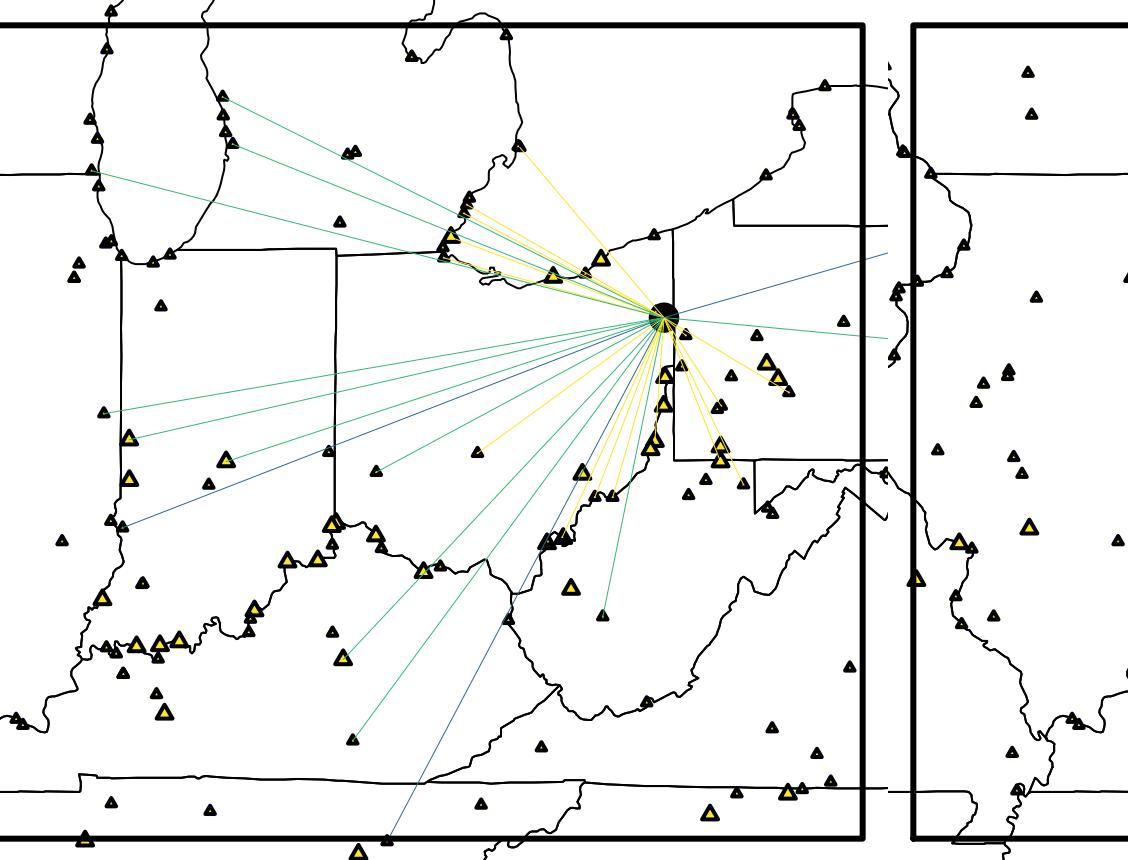
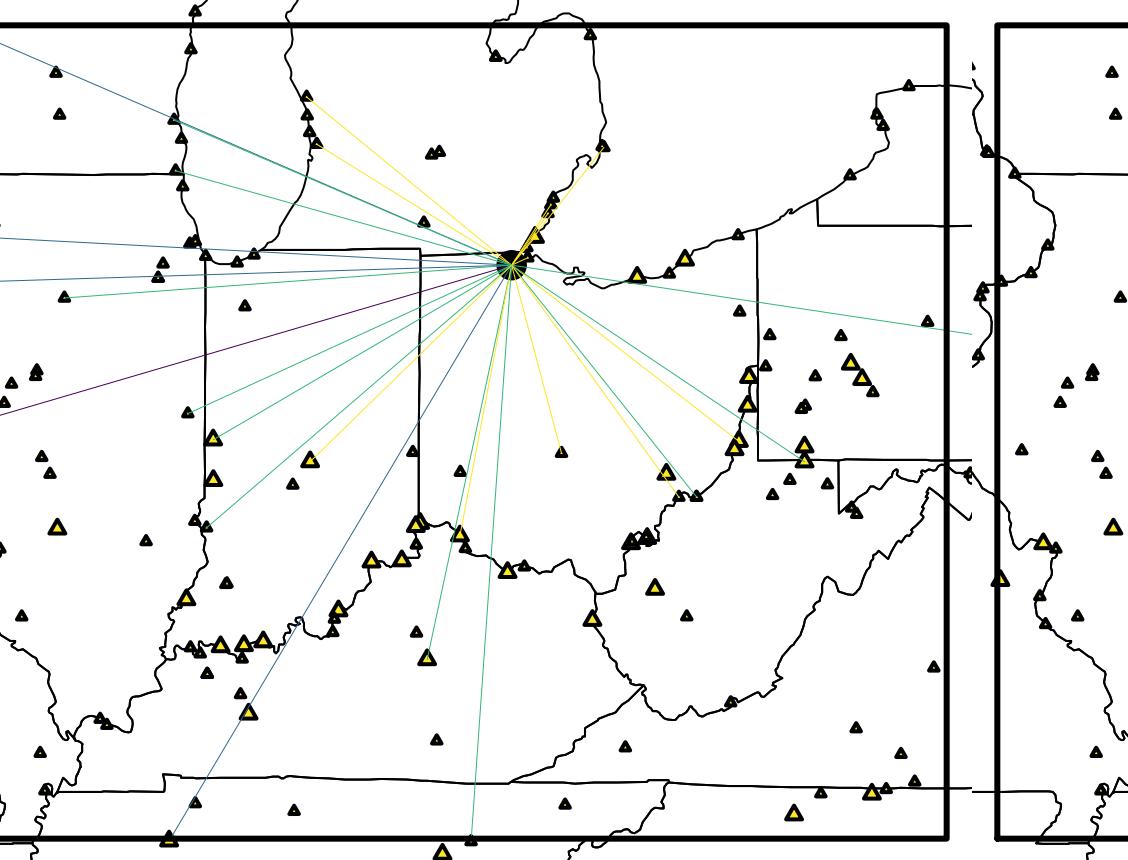


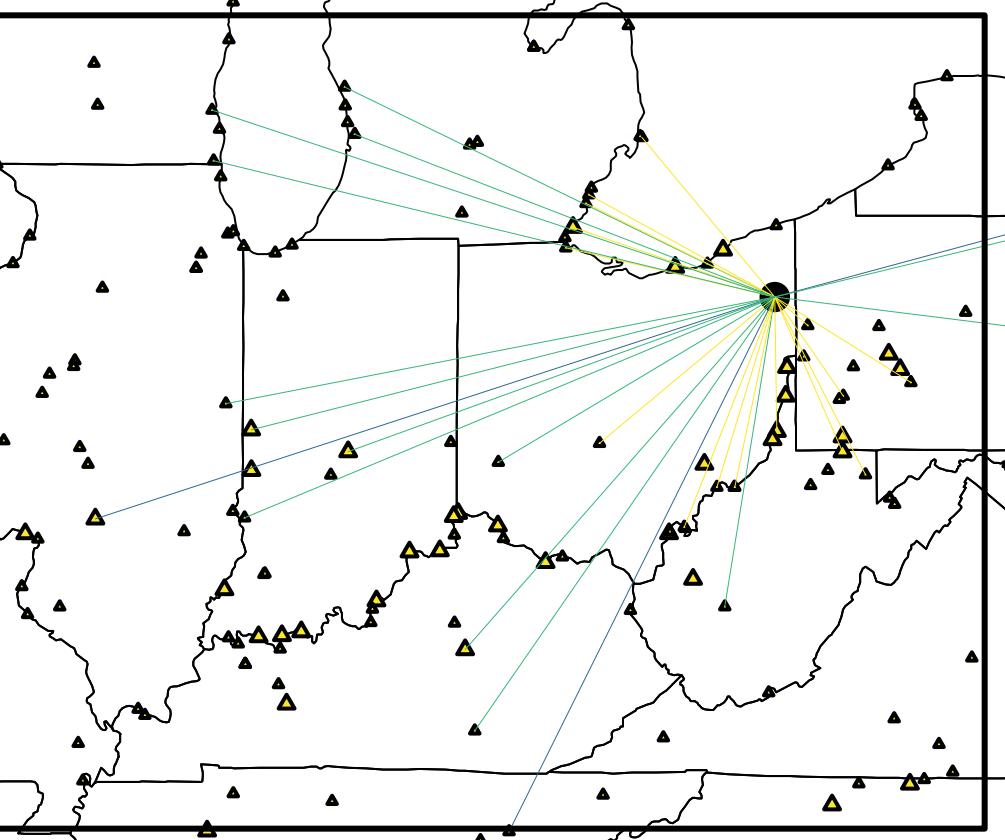
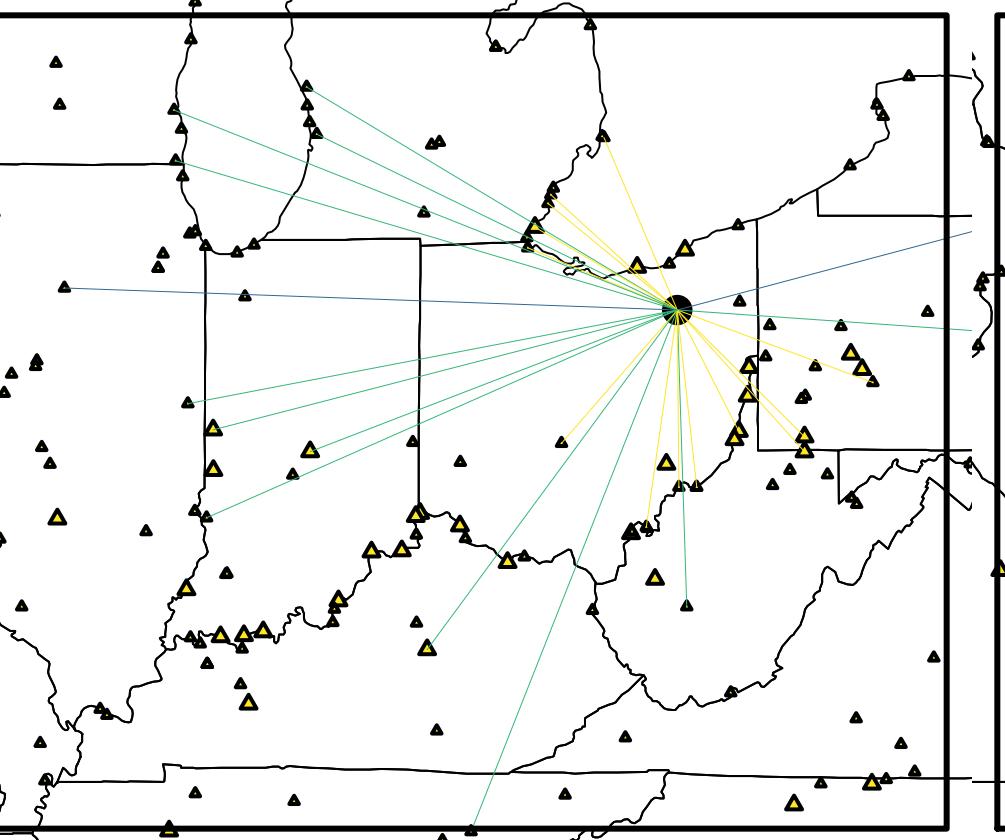
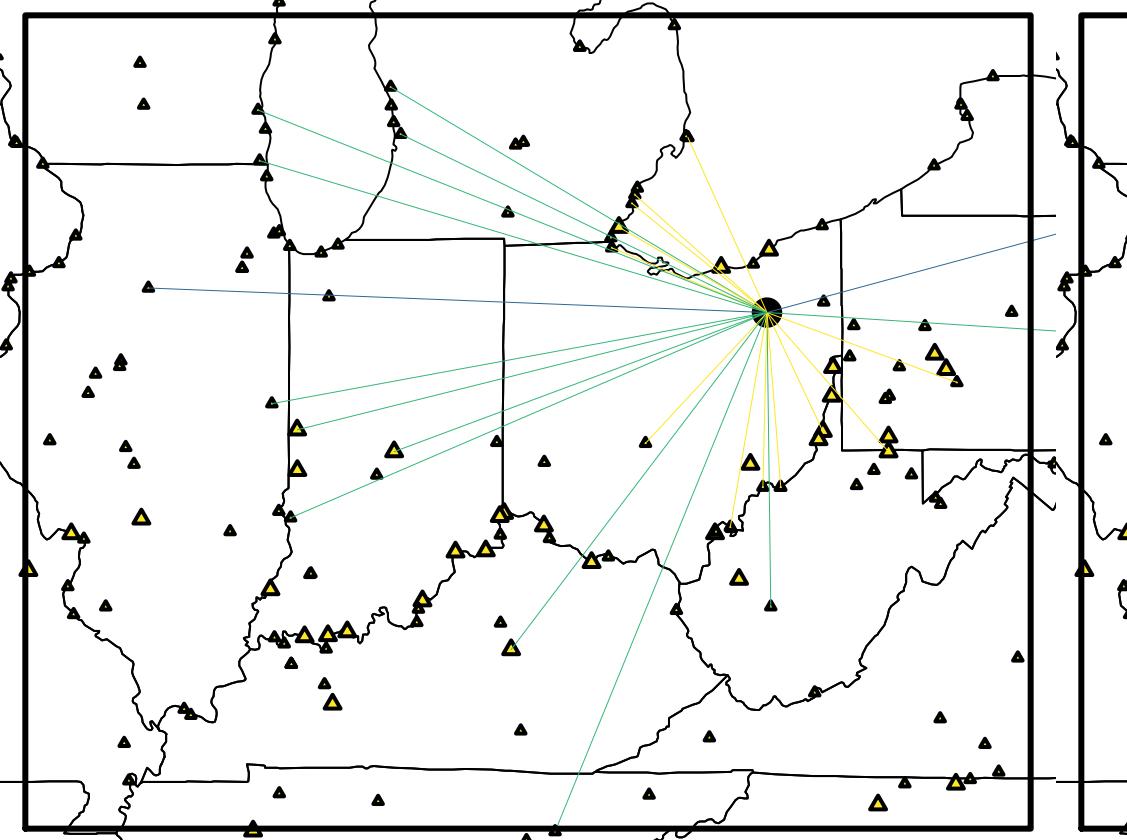
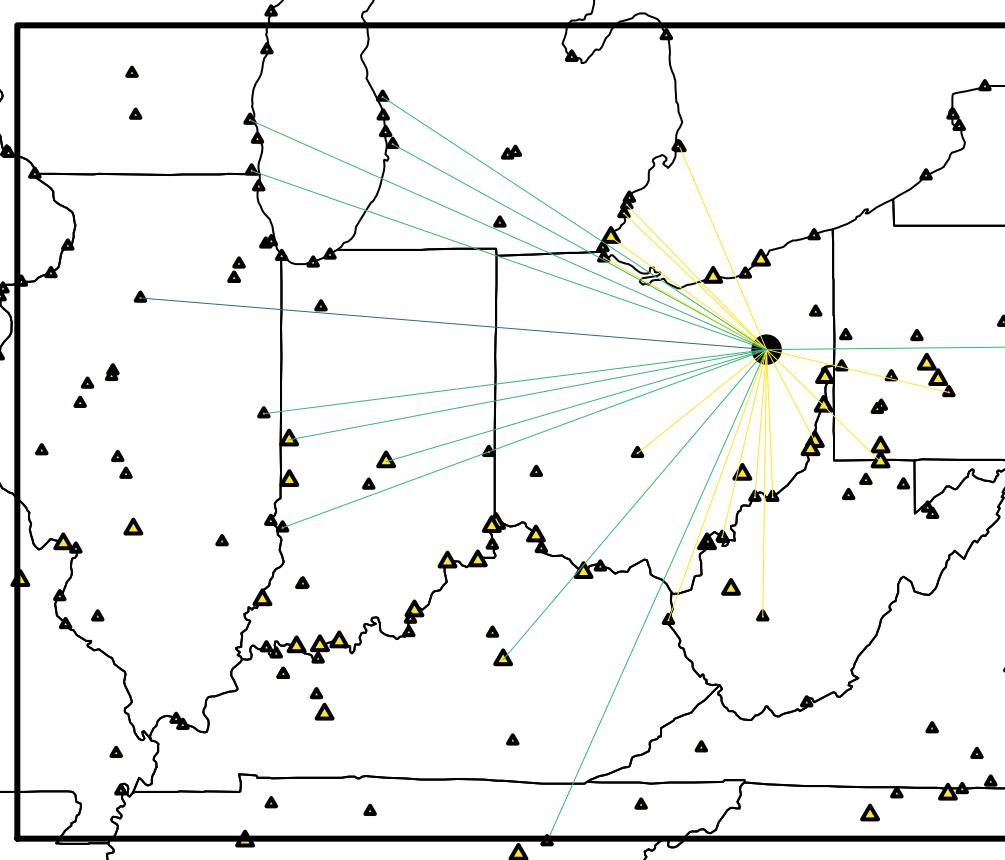
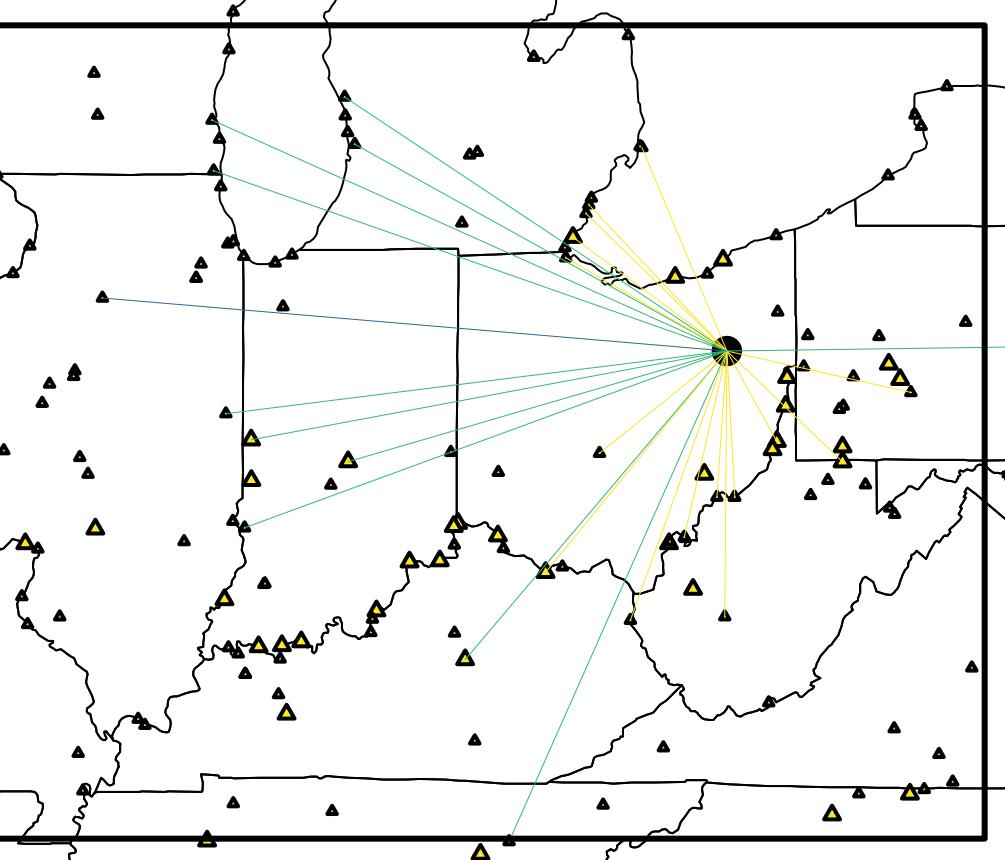
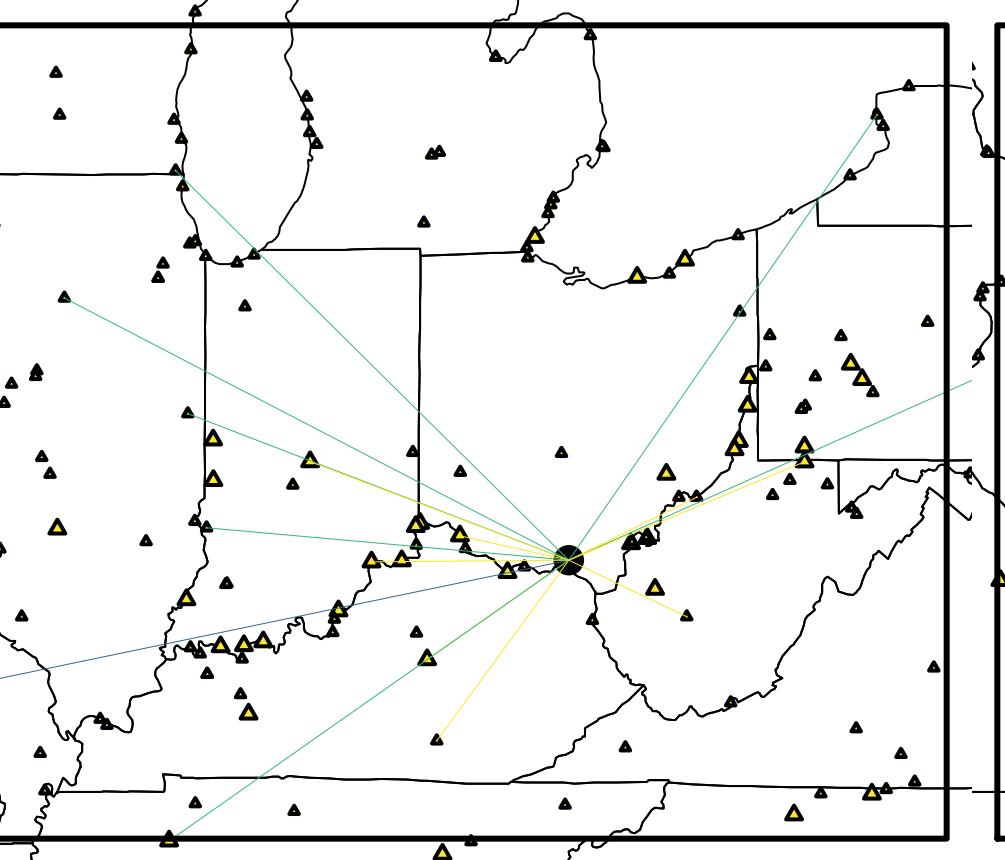
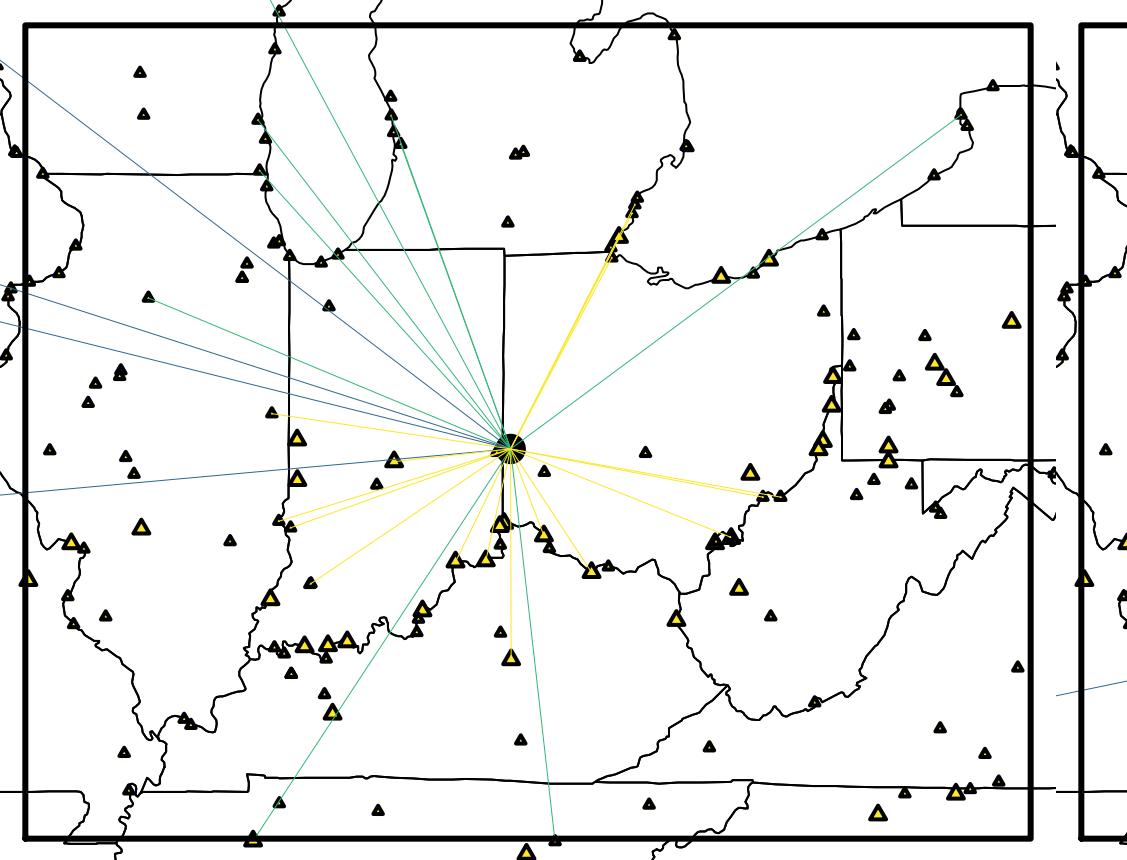


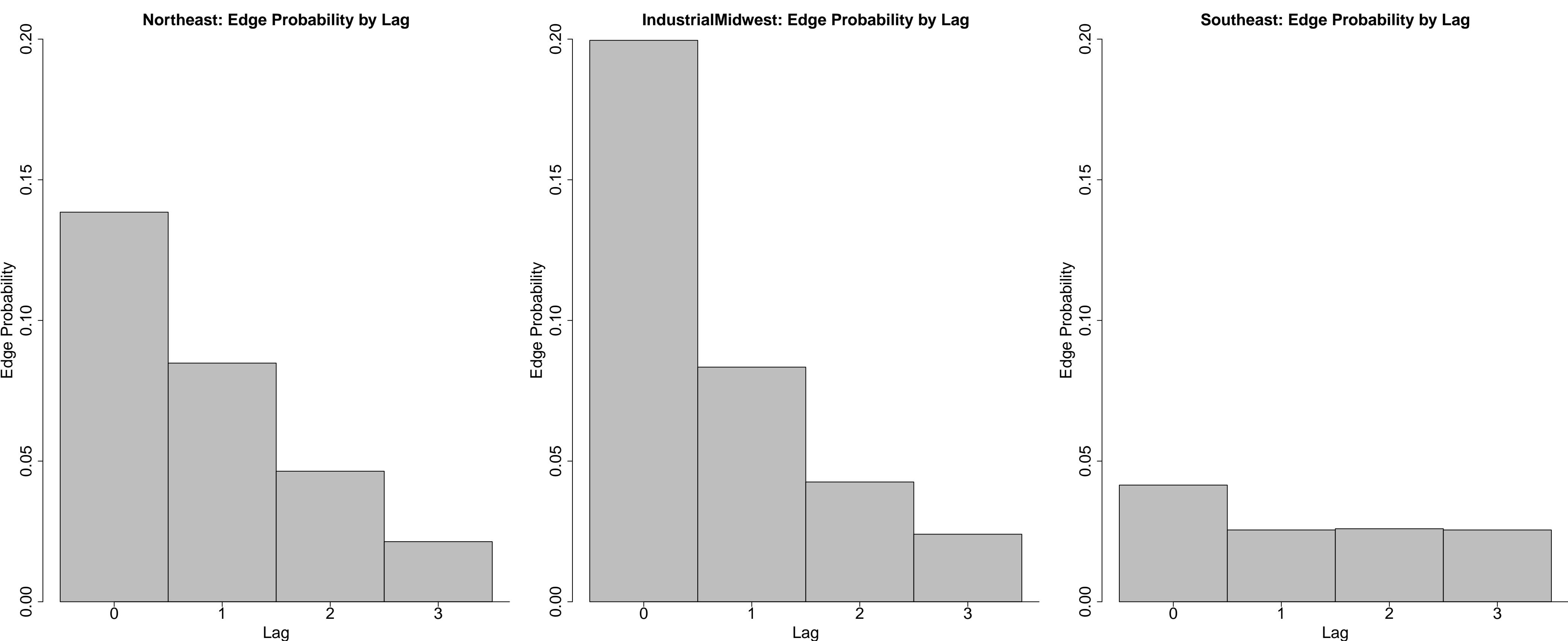




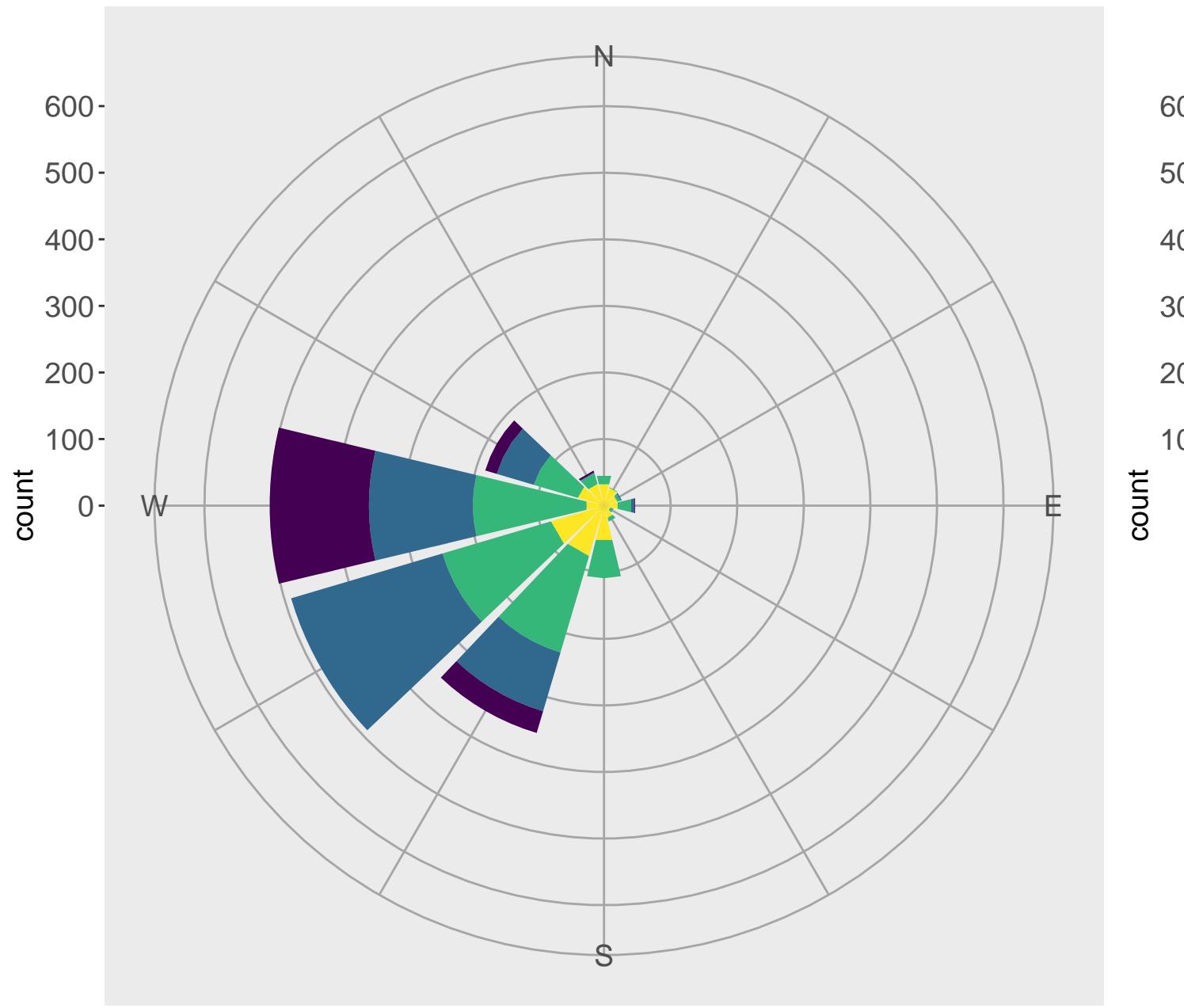




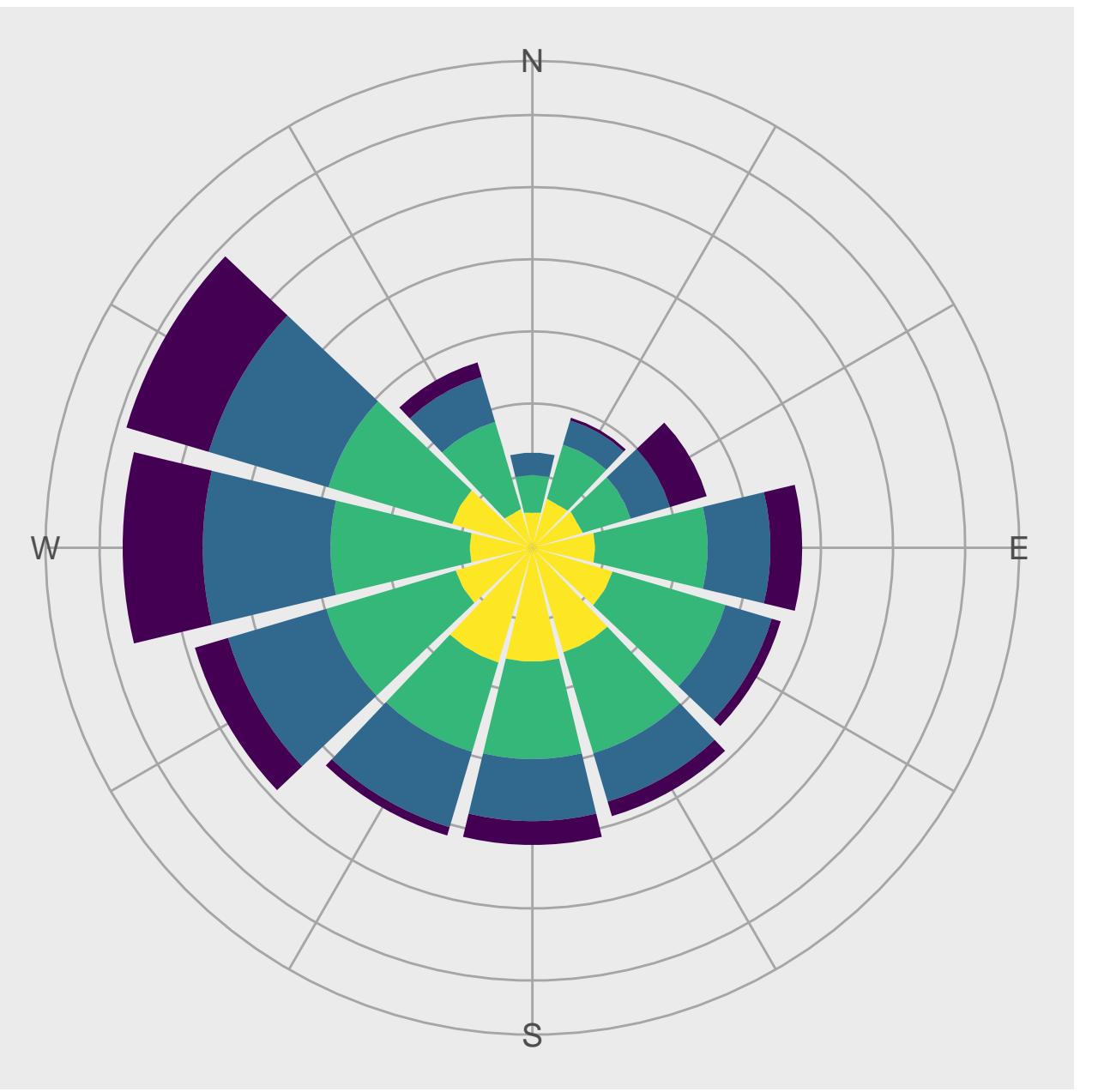




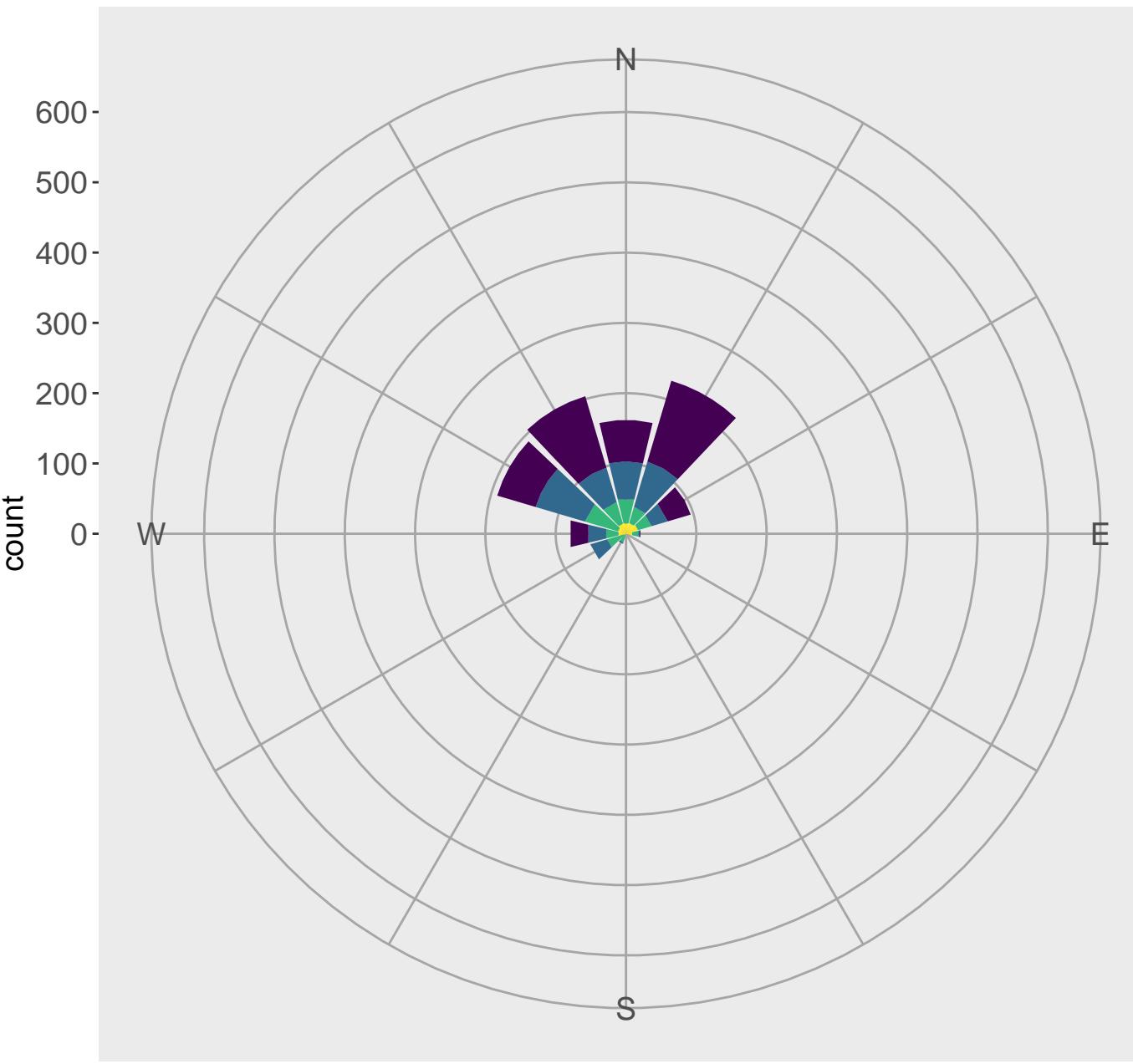
Edge counts by distance/direction to source
Northeast receptors



Edge counts by distance/direction to source
IndustrialMidwest receptors



Edge counts by distance/direction to source
Southeast receptors



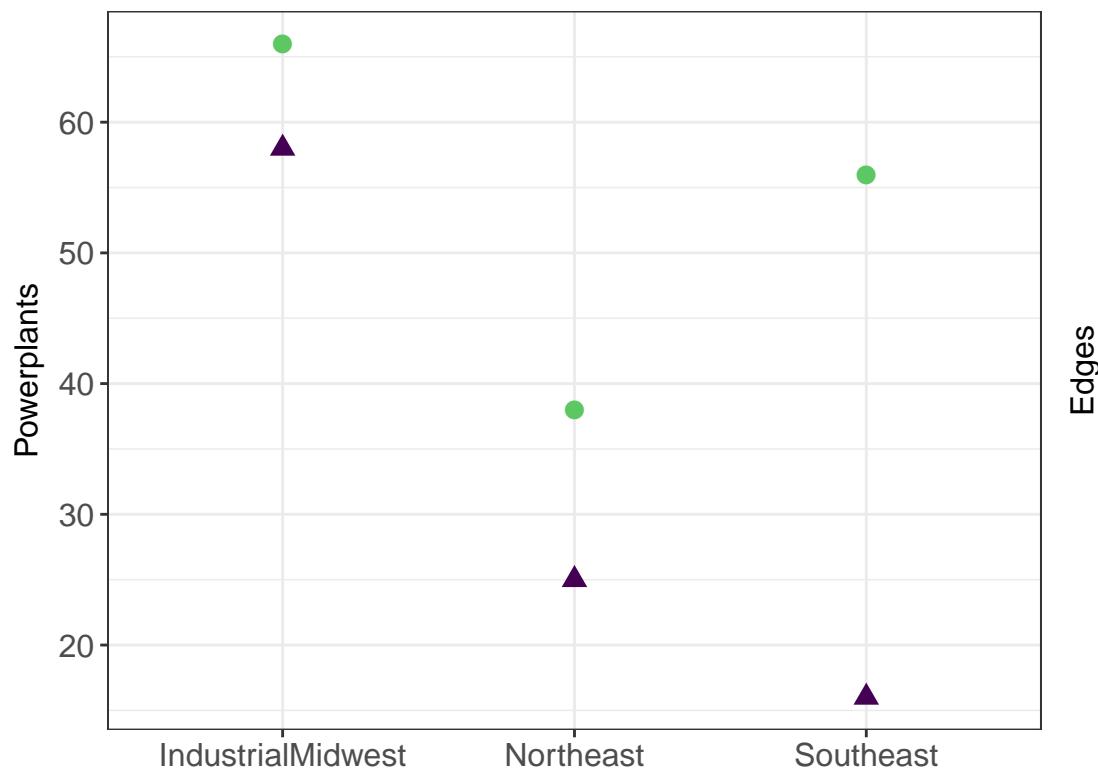
Distance to Source (km) 750–1000 500–750 250–500 0–250

Distance to Source (km) 750–1000 500–750 250–500 0–250

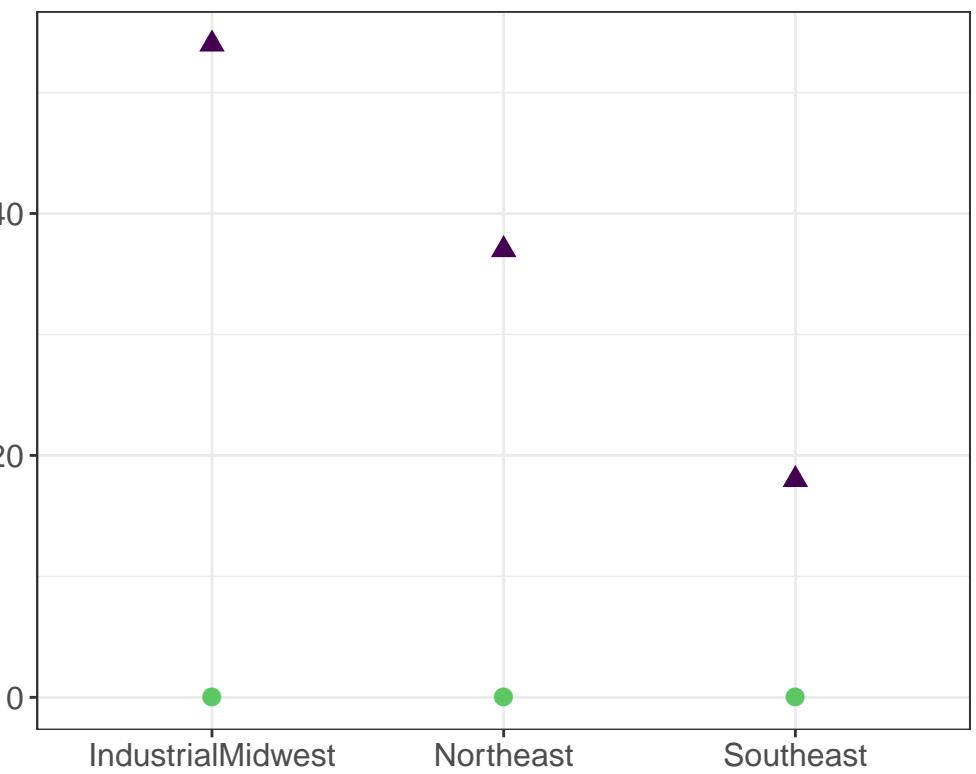
Distance to Source (km) 750–1000 500–750 250–500 0–250

Why do some power plants have edges and others do not?

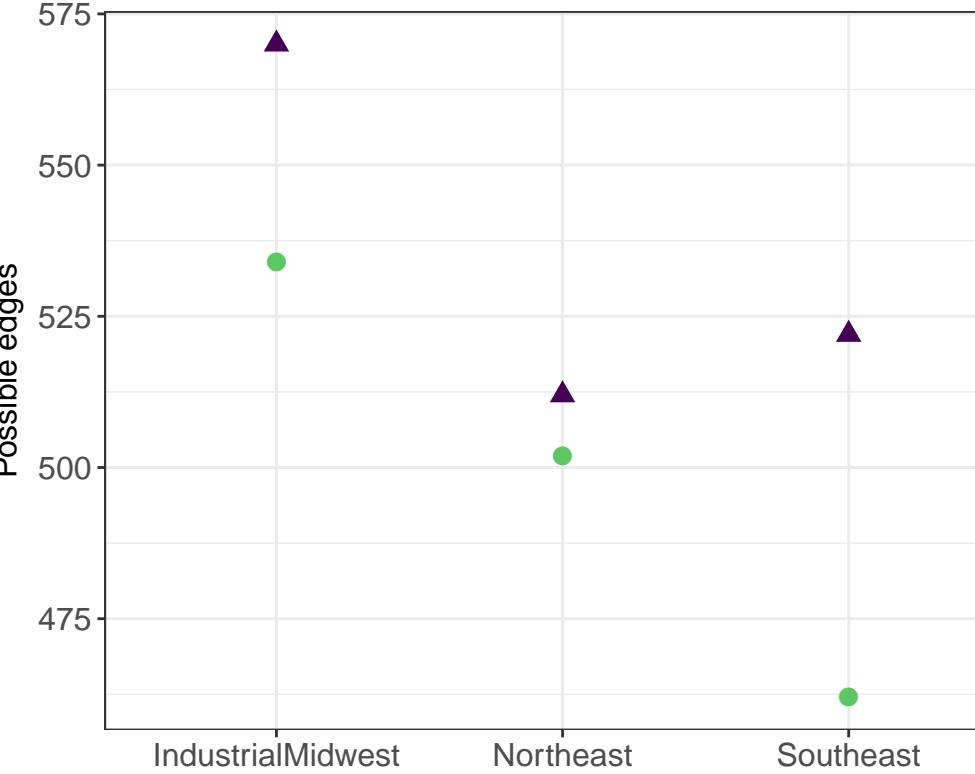
Number of powerplants



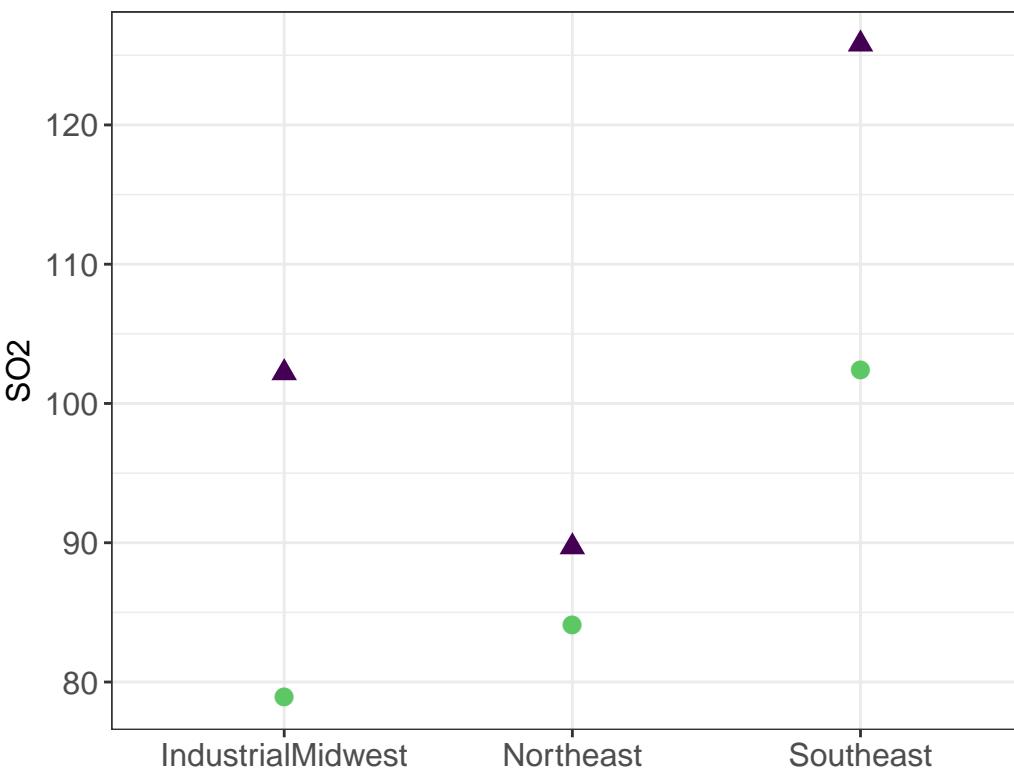
Median number of edges



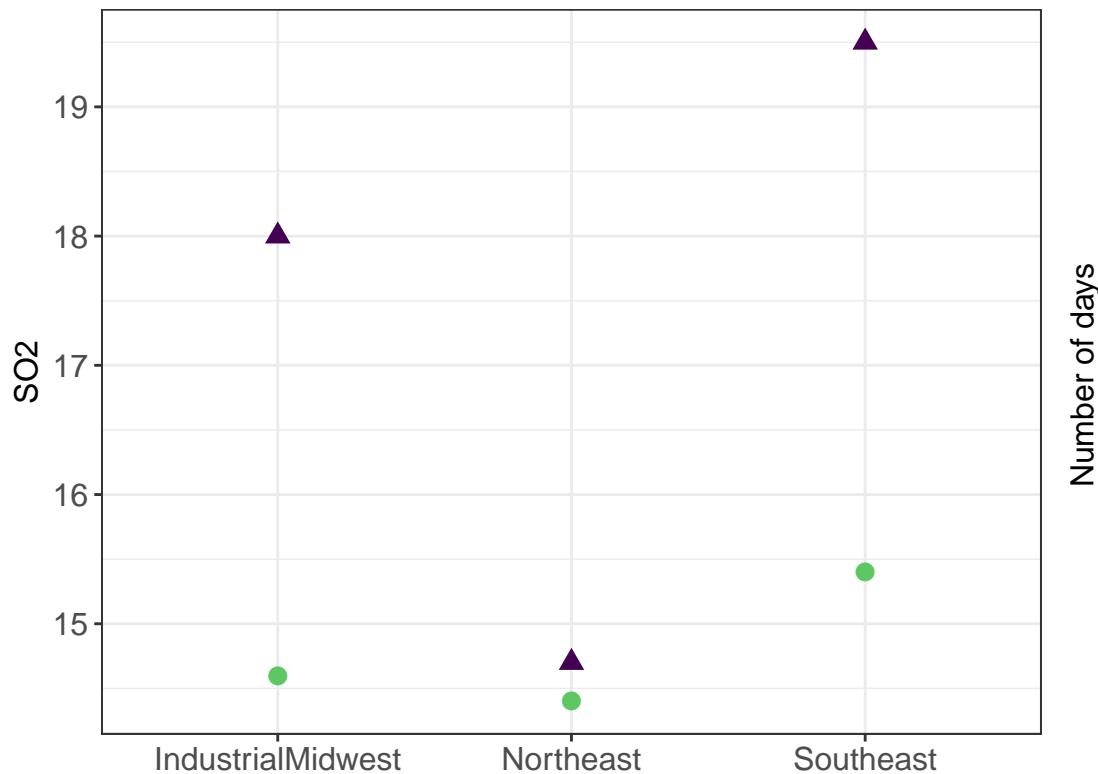
Median number of possible edges



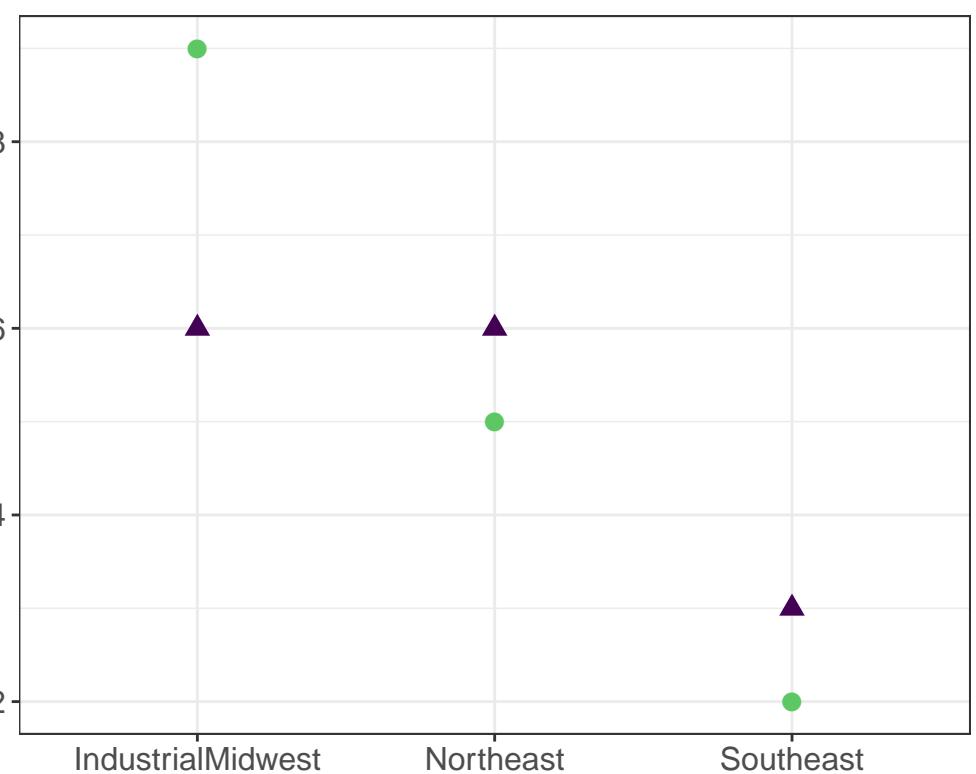
Average emissions



Standard deviation in emissions

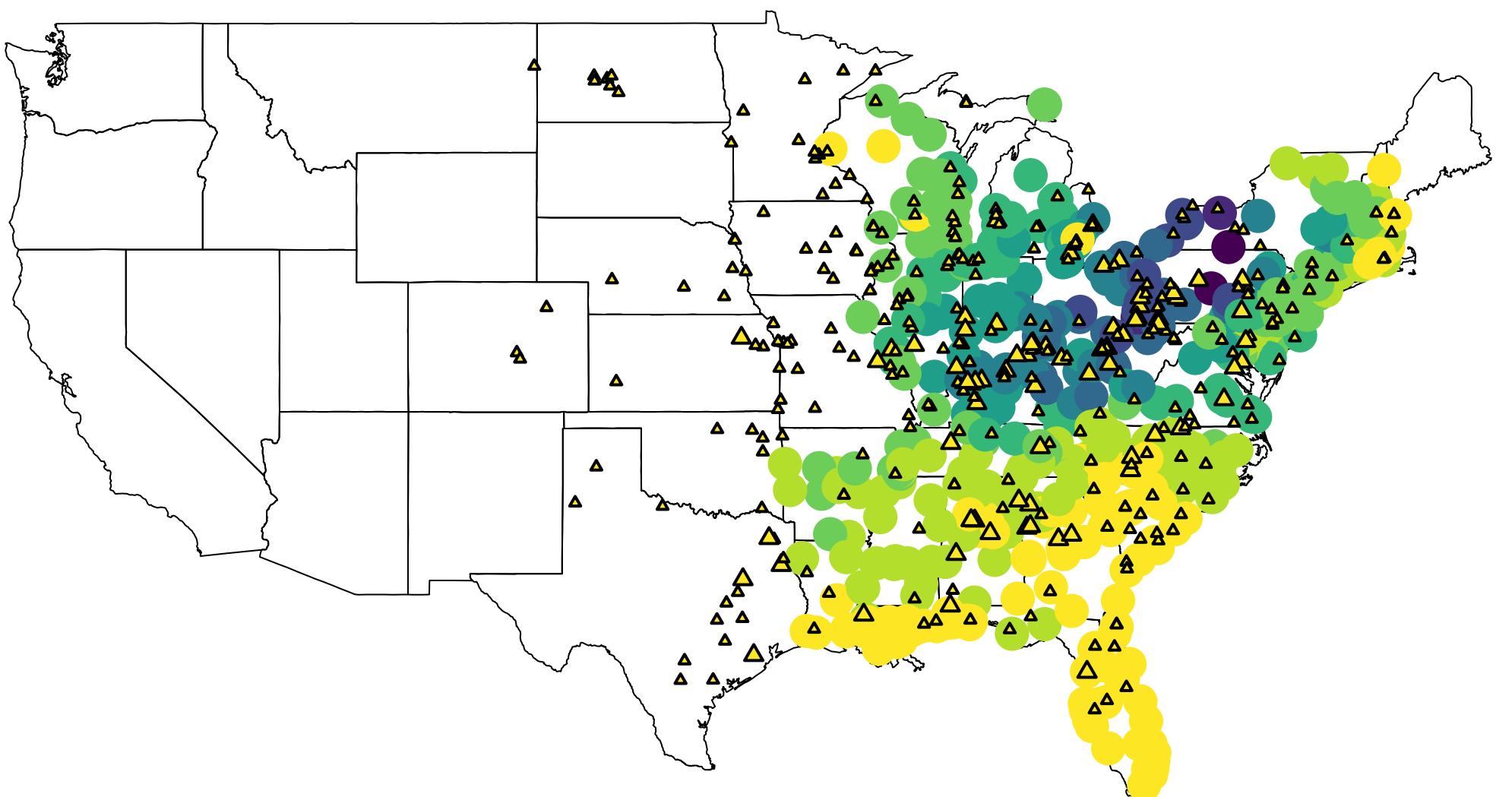


Median number of days with missing emissions data

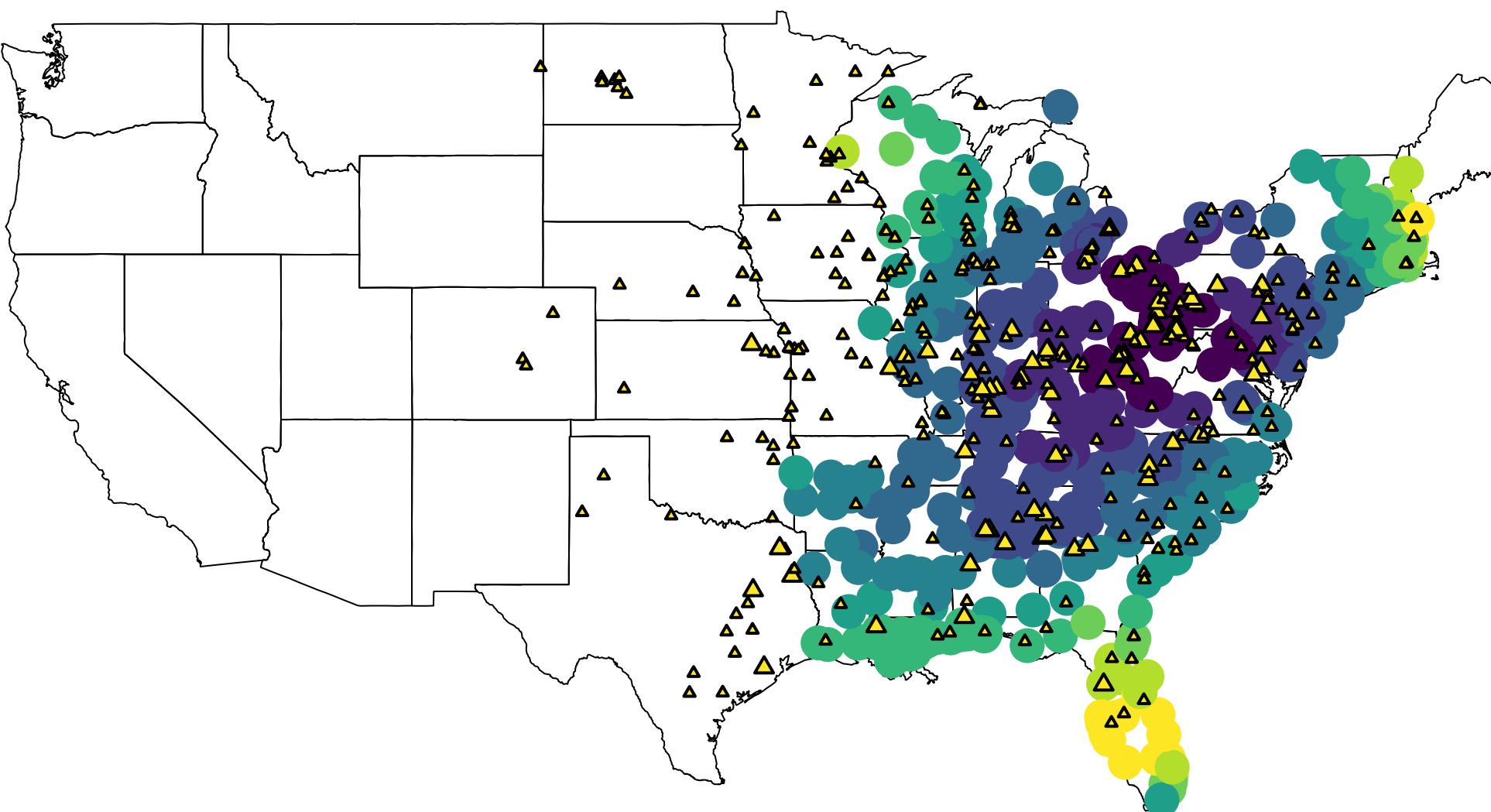


`as.factor(has.edges)` ● 0 ▲ 1

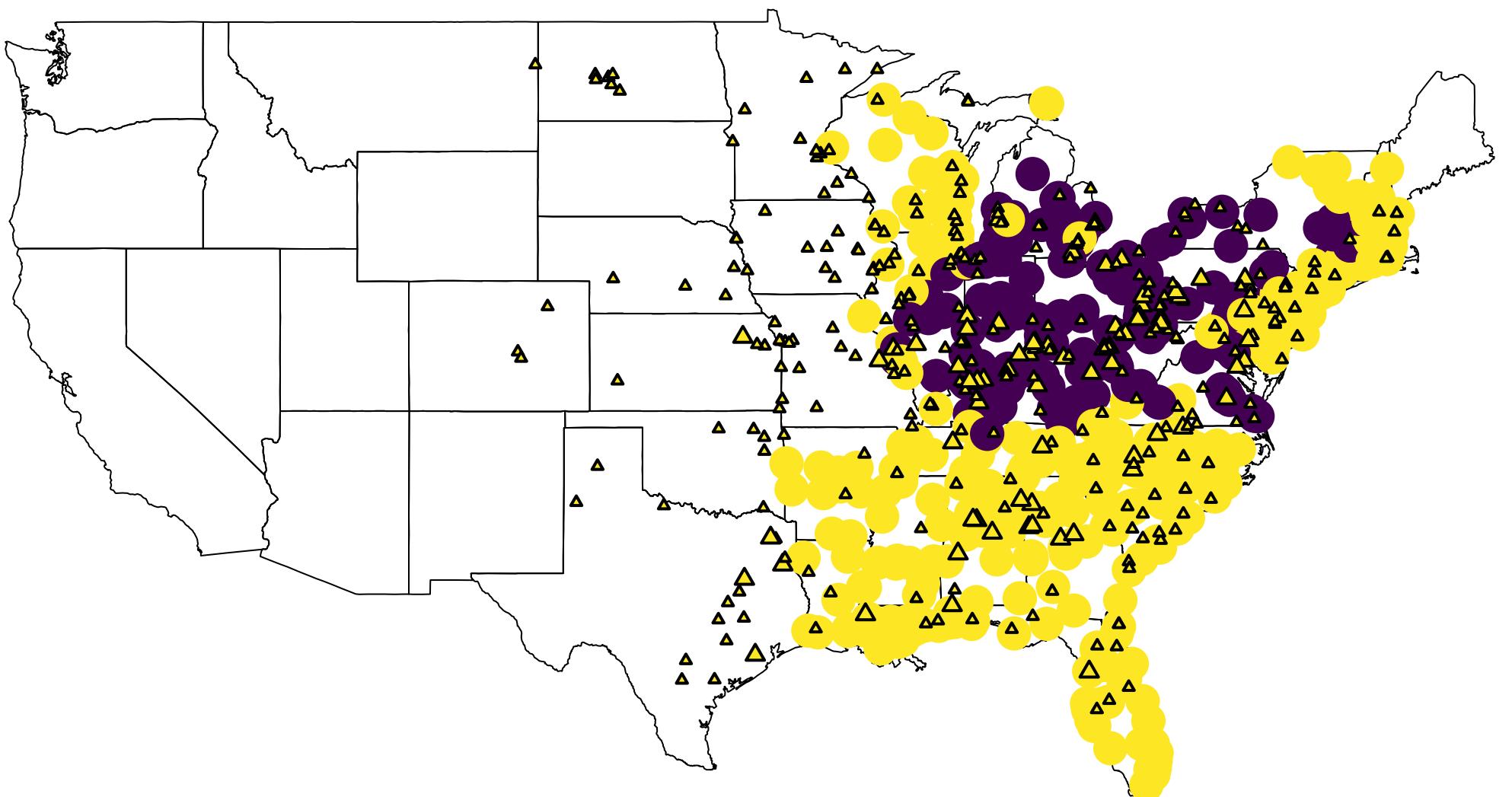
Monitor exposure: sum of gams.coeff, summer 2005



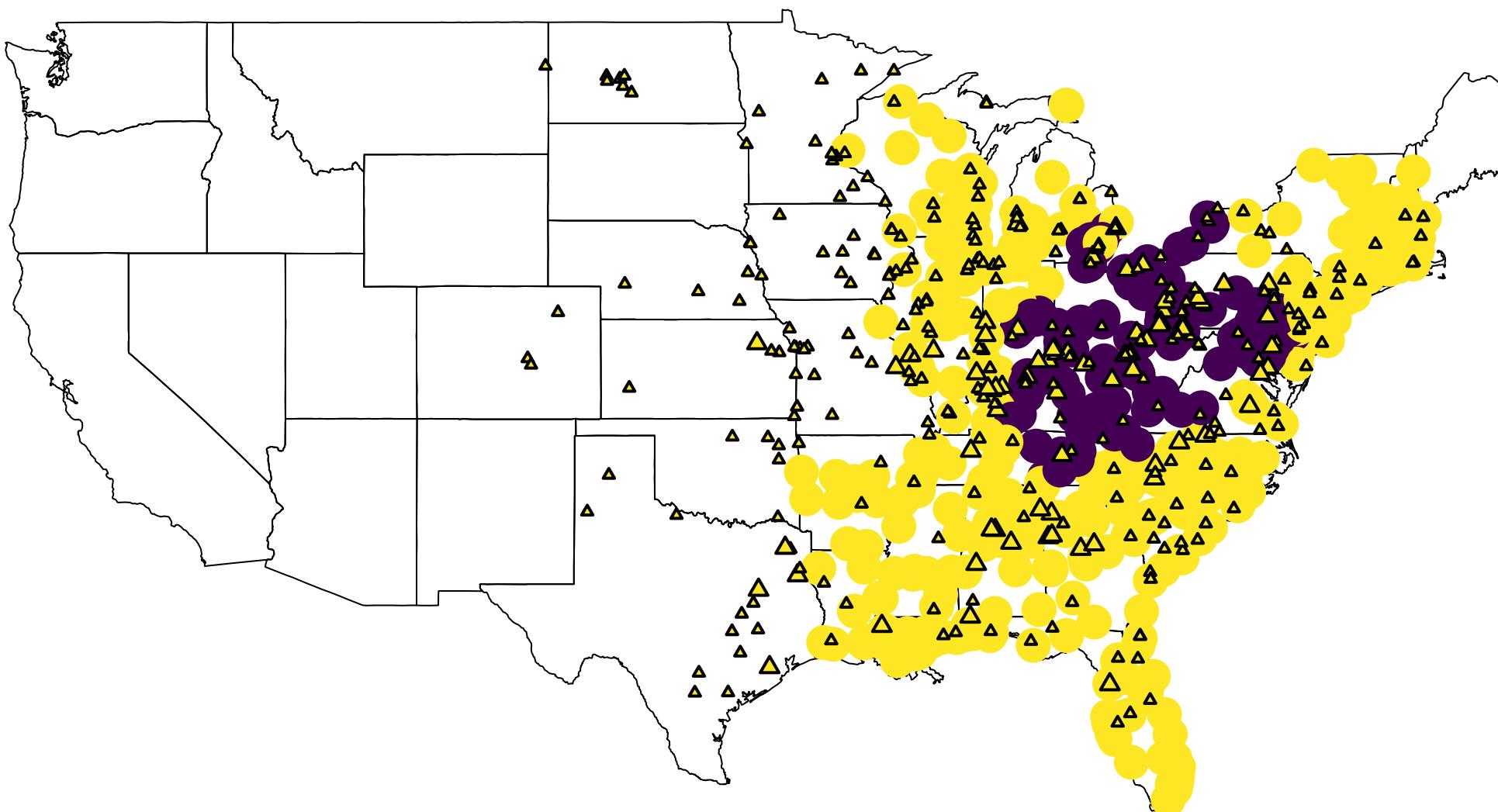
Monitor exposure: avgPM, decomposed75 summer 2005



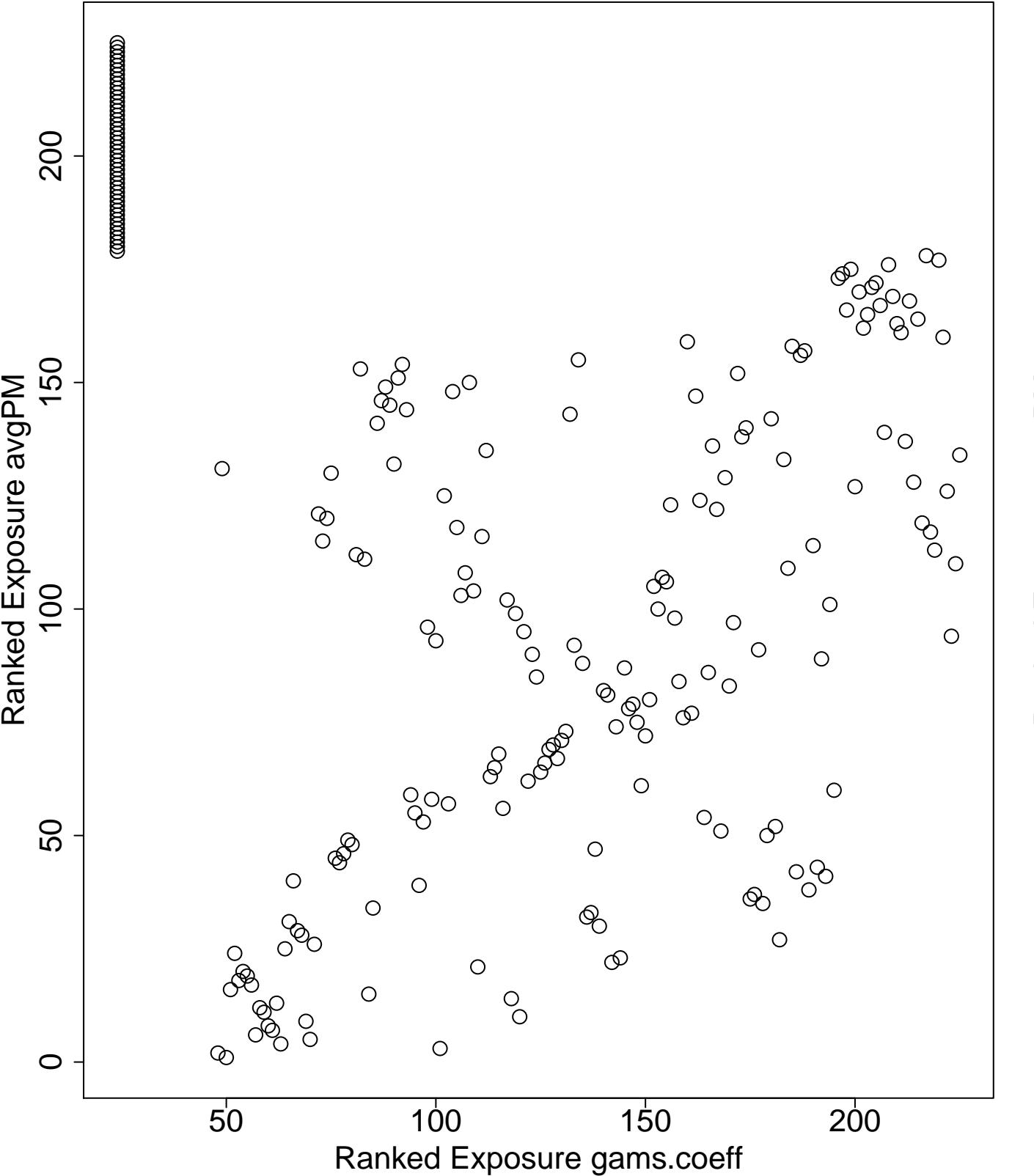
Highest exposed: sum of gams.coeff, summer 2005



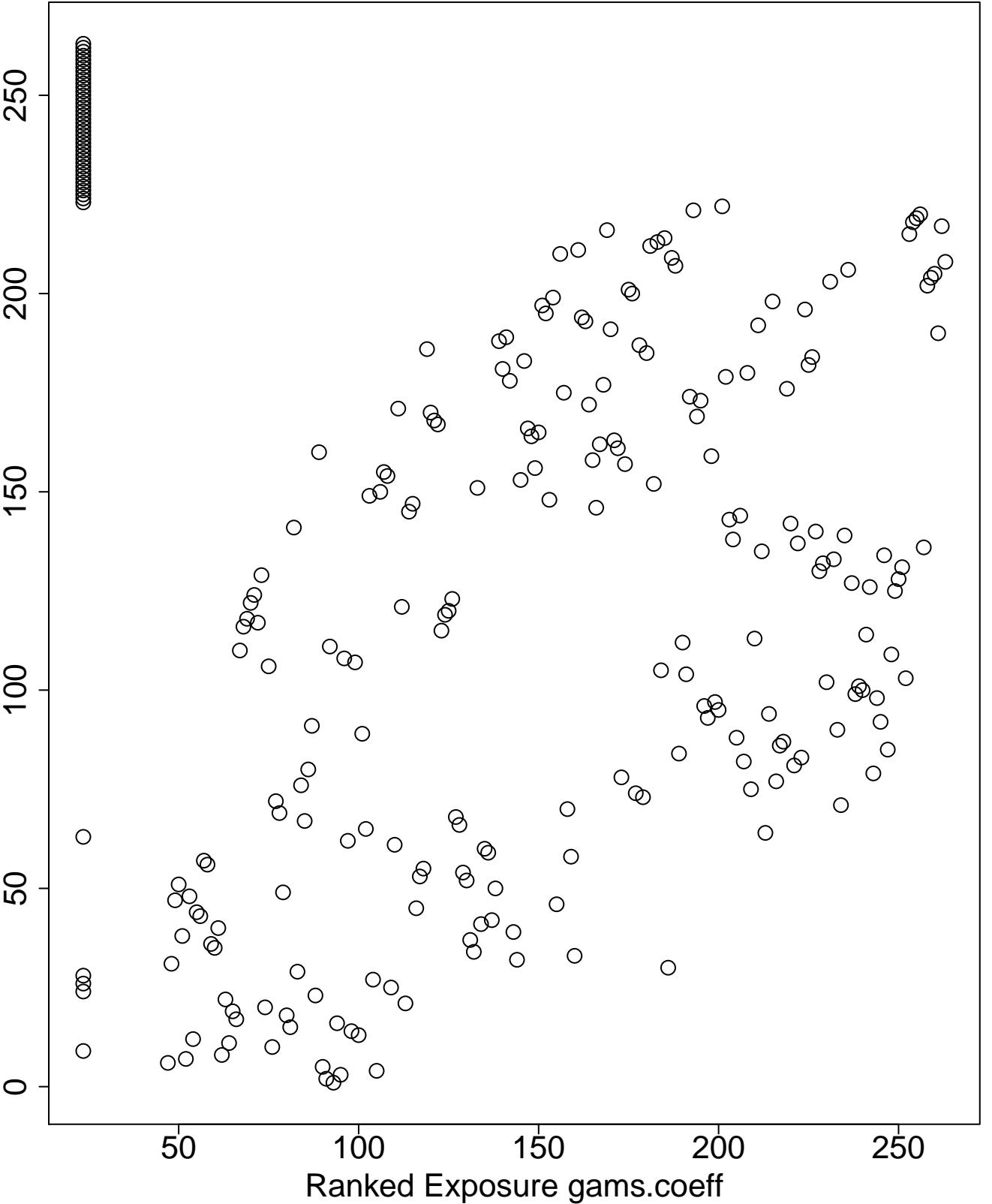
Highest exposed: avgPM, decomposed75 summer 2005



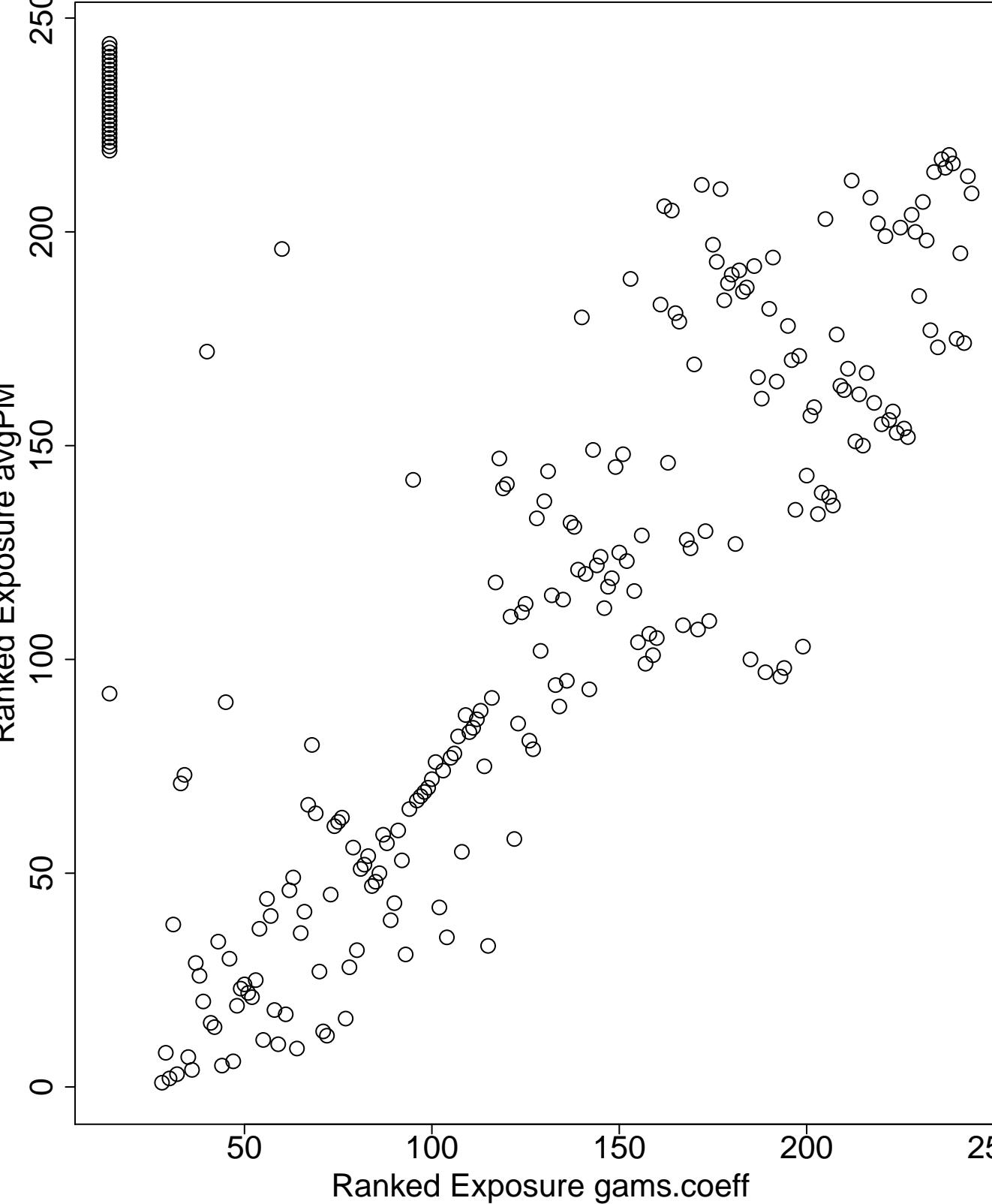
Northeast correlation = 0.55



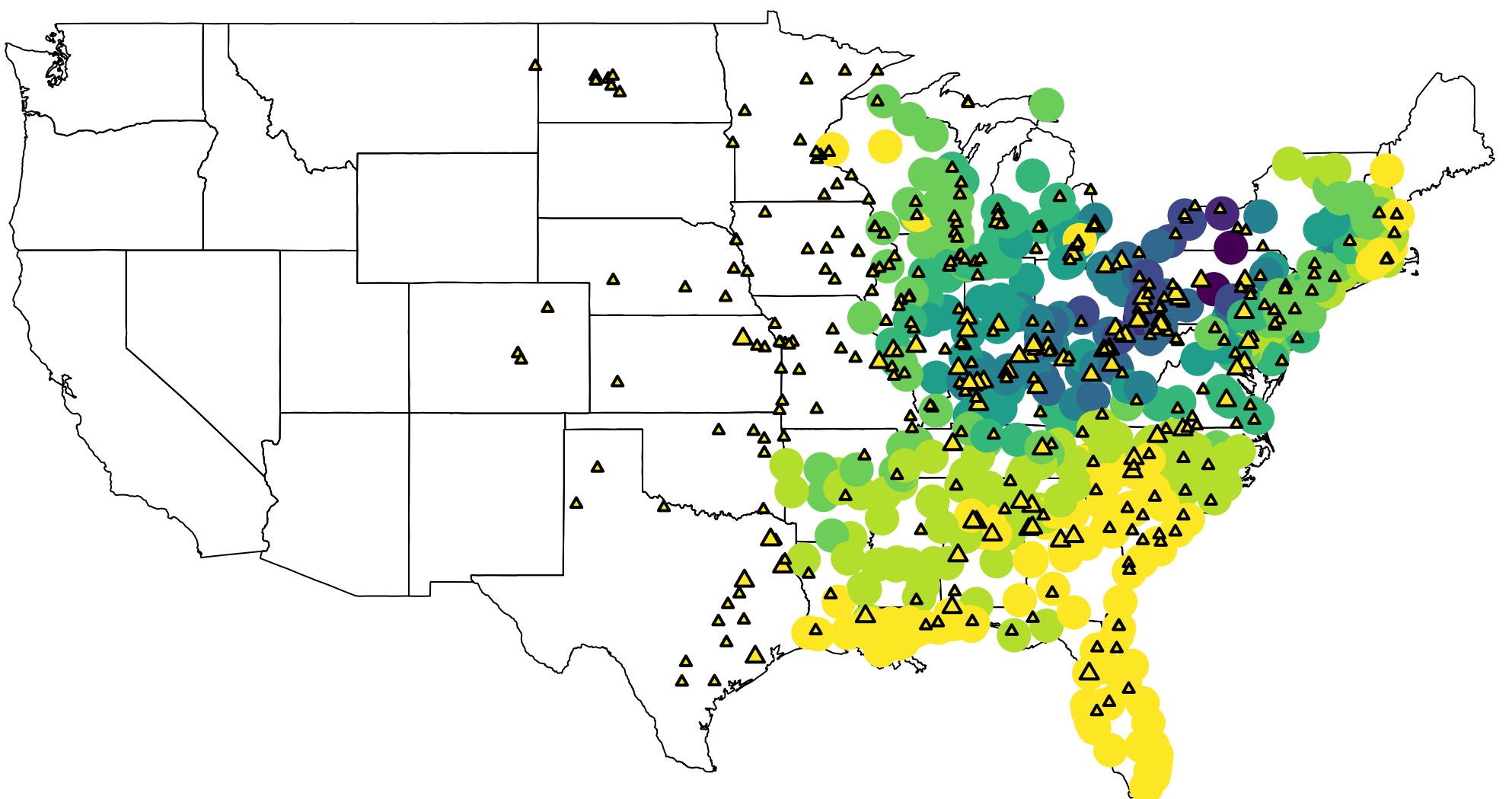
Southeast correlation = 0.53



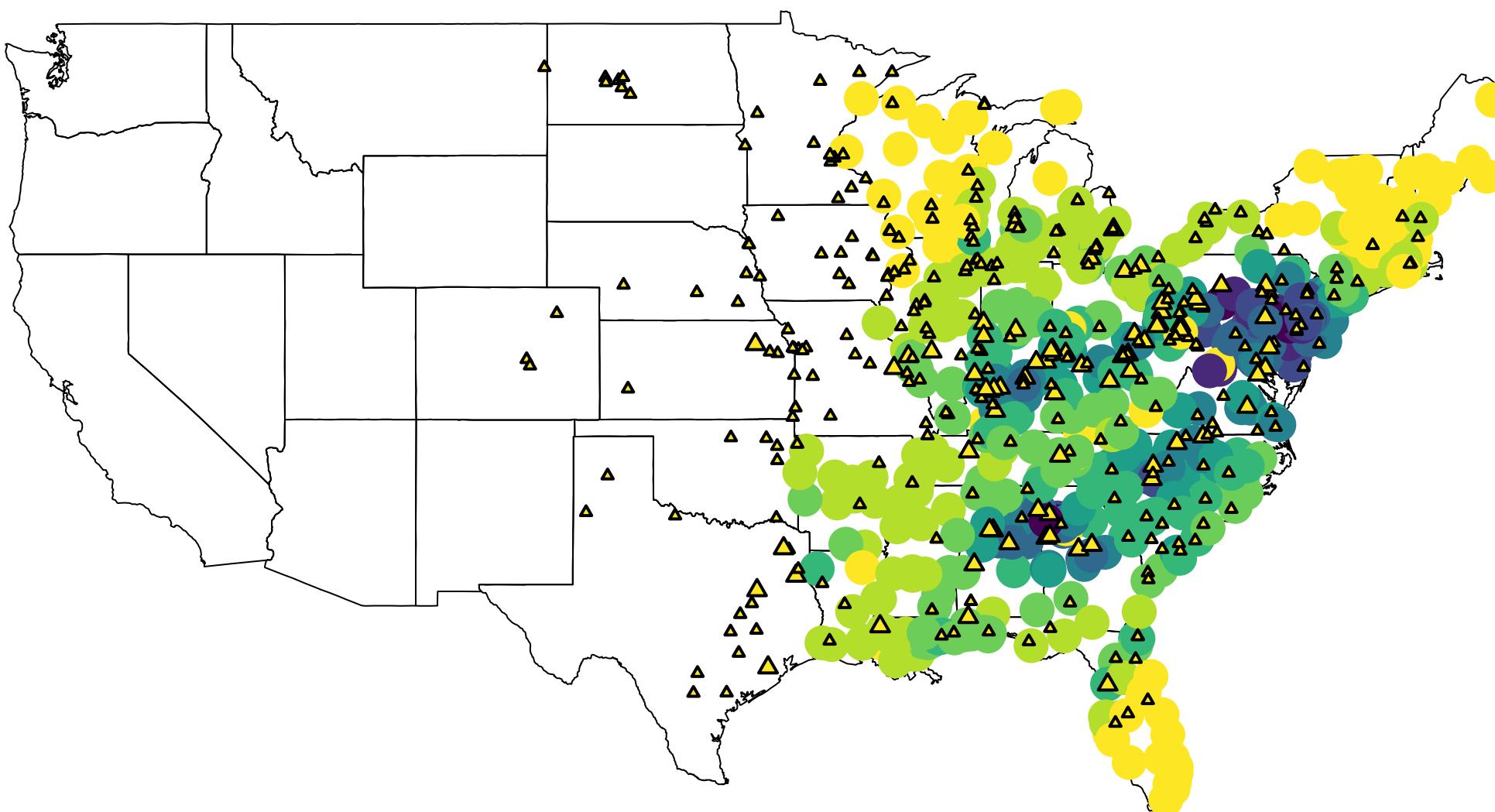
IndustrialMidwest correlation = 0.87



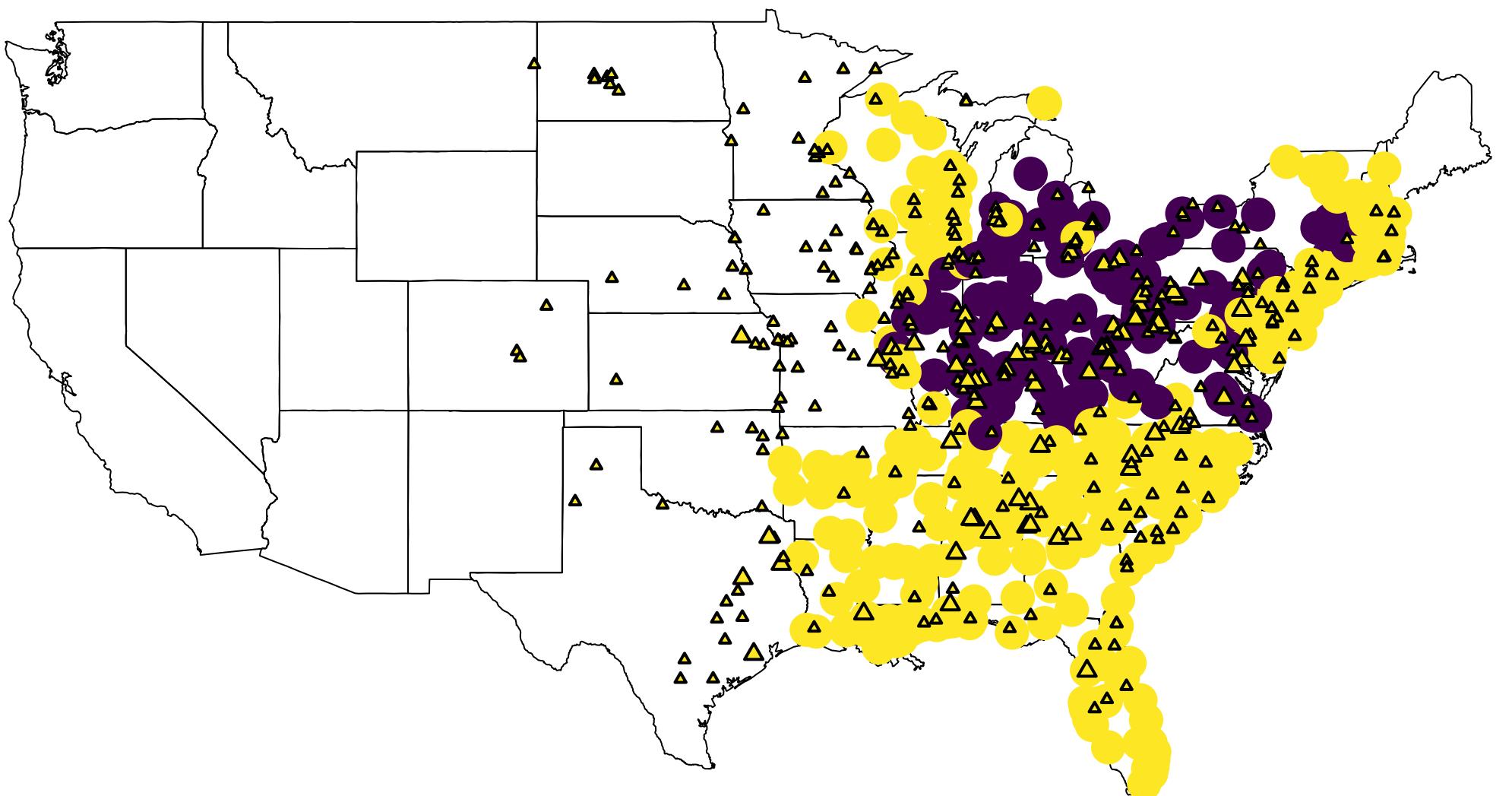
Monitor exposure: sum of gams.coeff, summer 2005



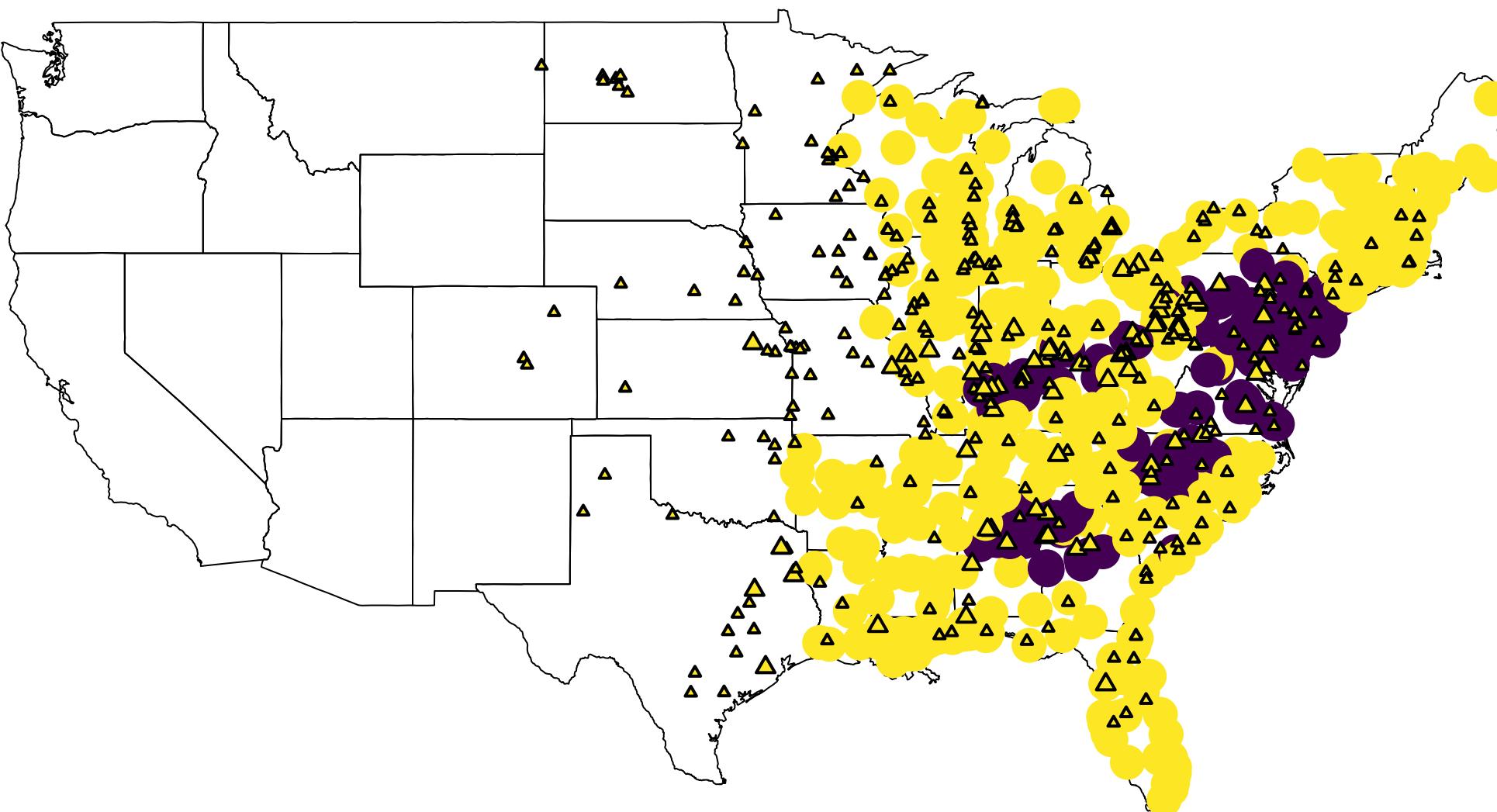
Monitor exposure: annual coal emissions (InMAP)



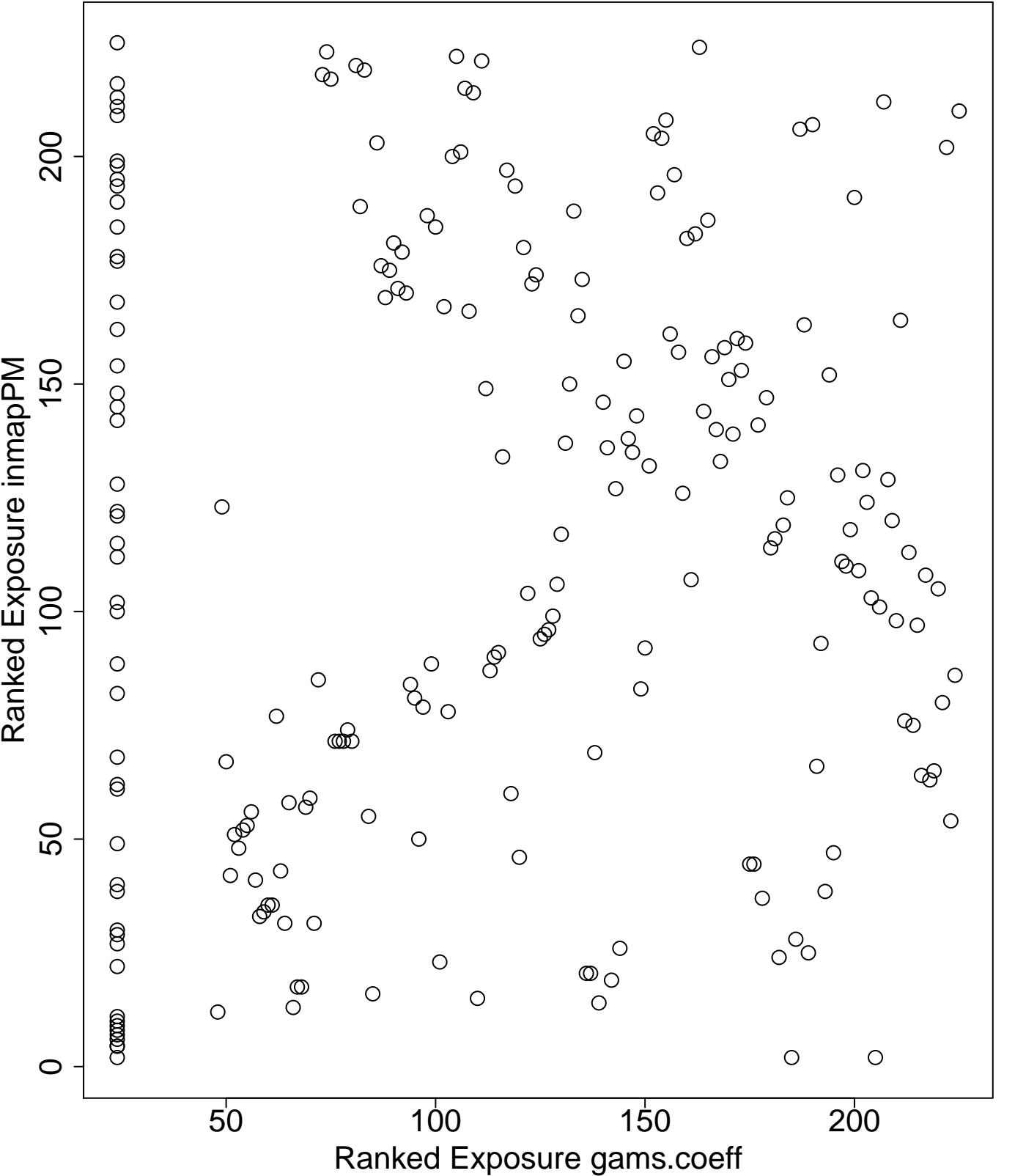
Highest exposed: sum of gams.coeff, summer 2005



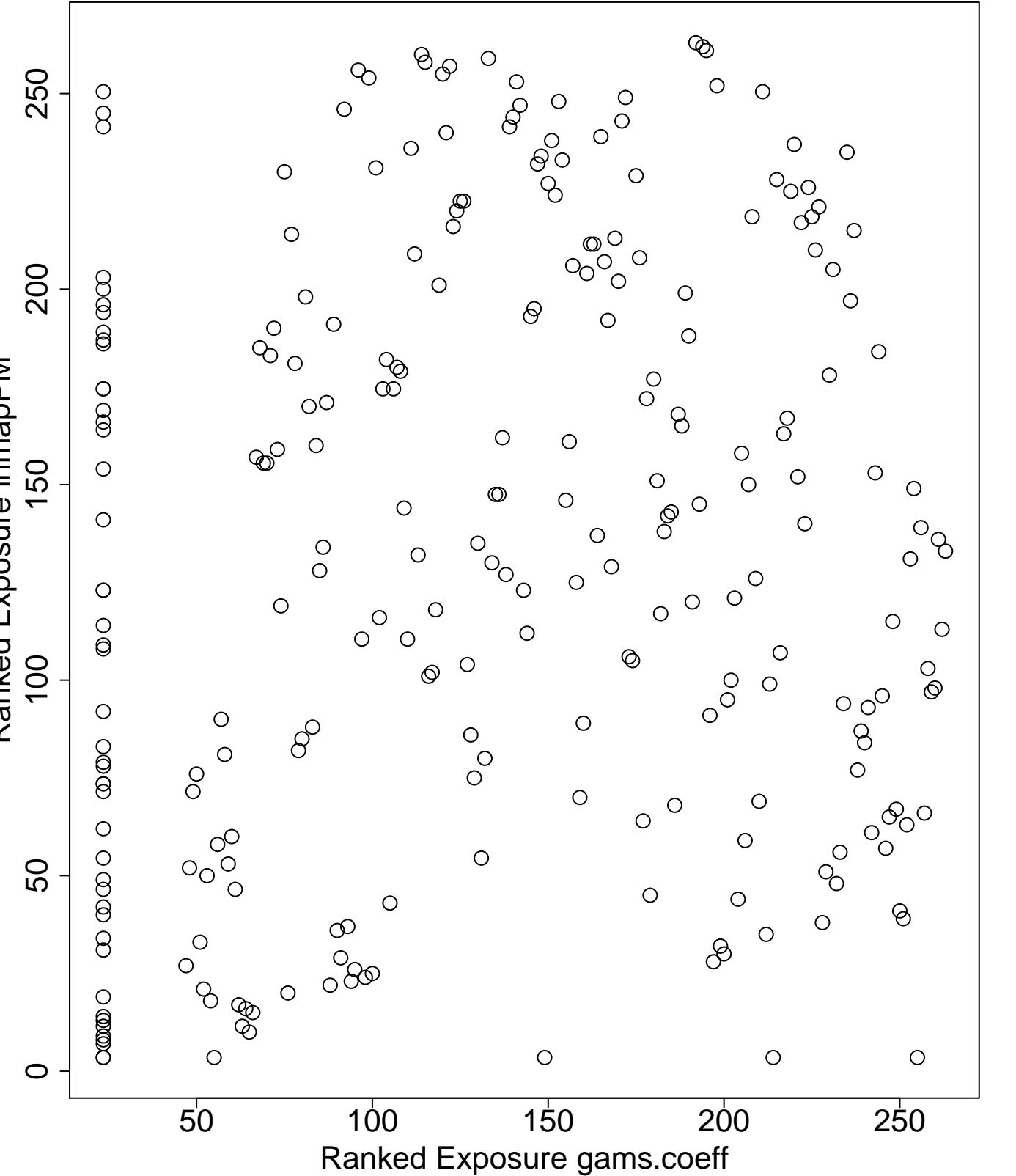
Highest exposed: annual coal emissions (InMAP)



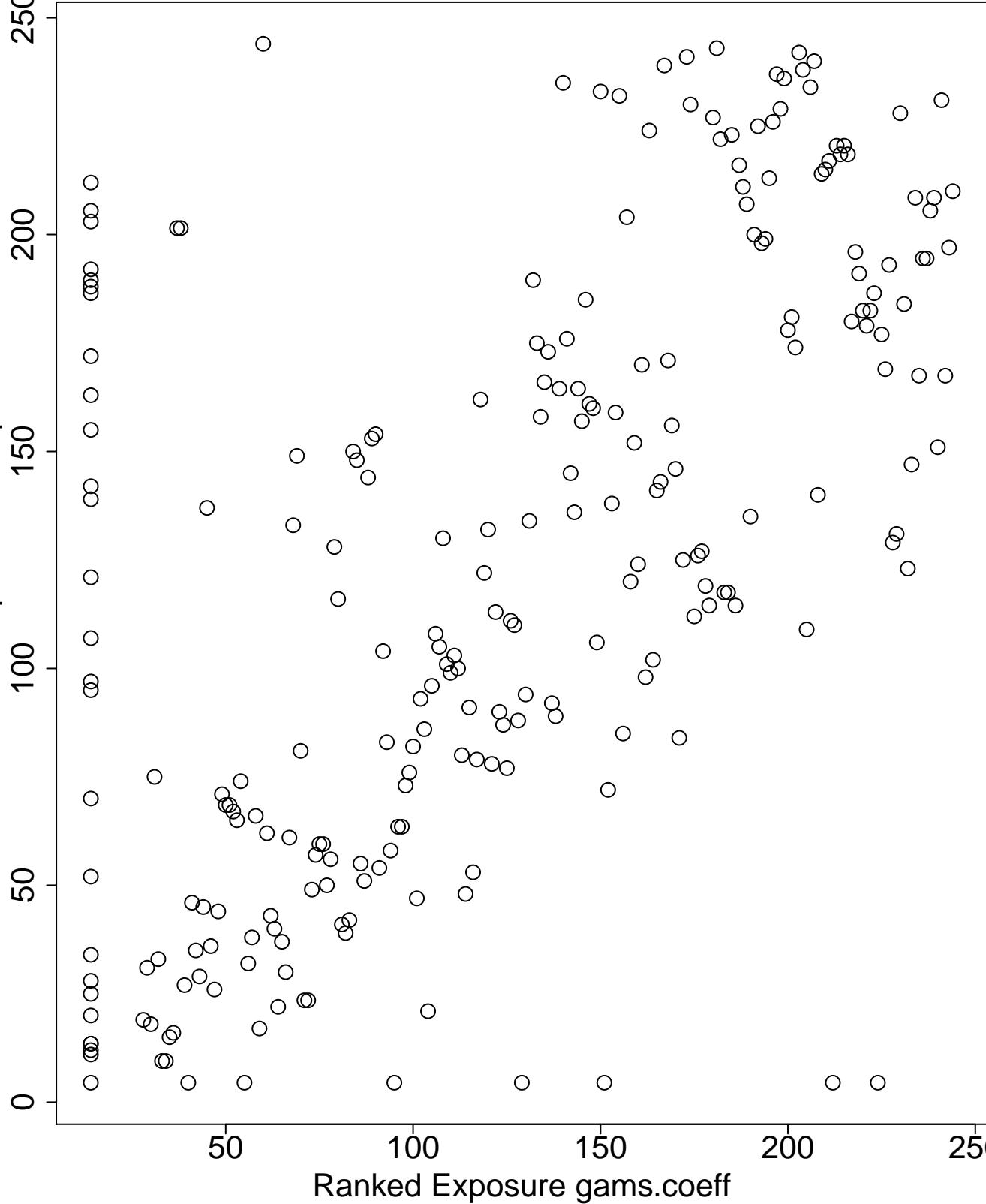
Northeast correlation = 0.14



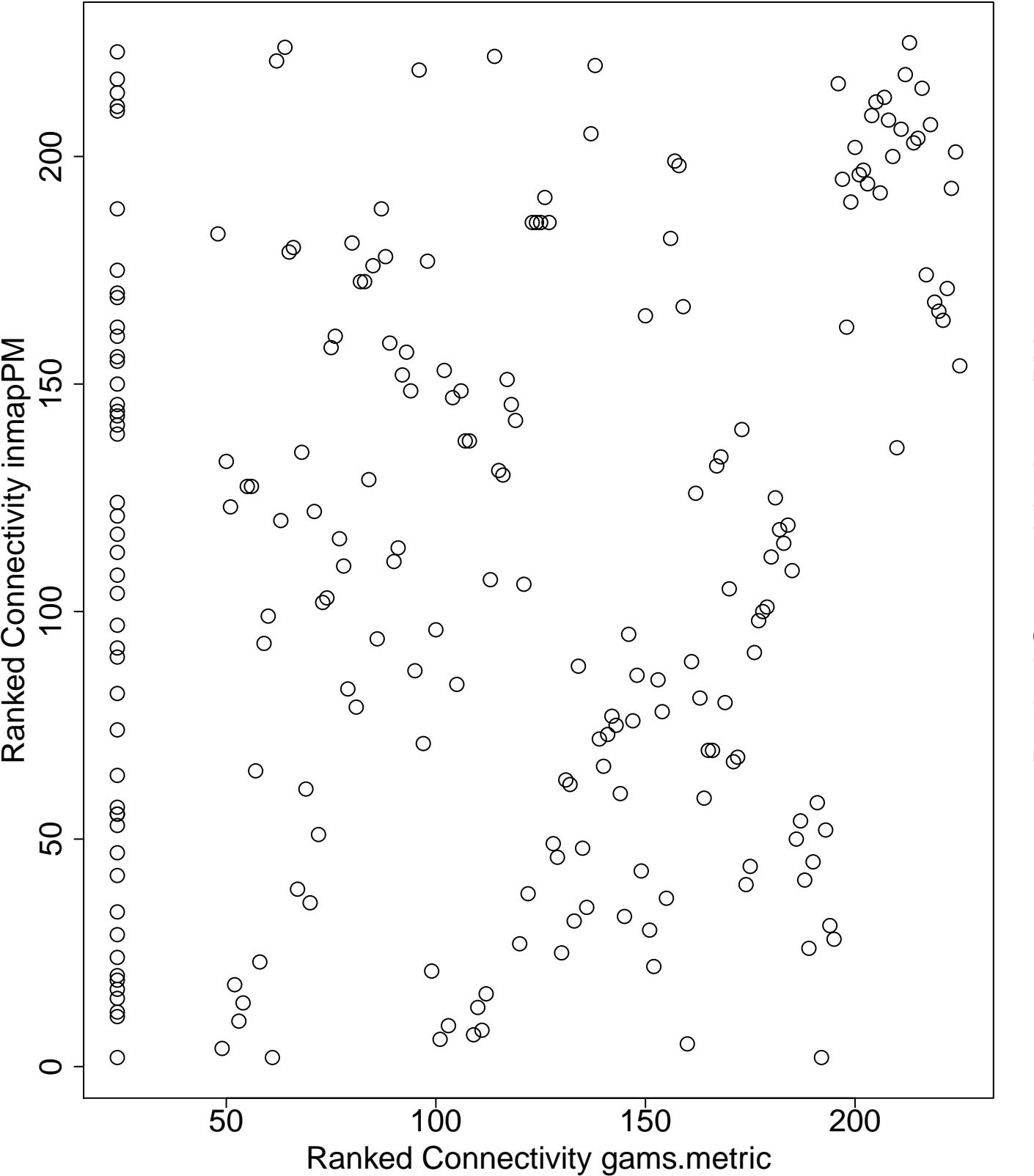
Southeast correlation = 0.08



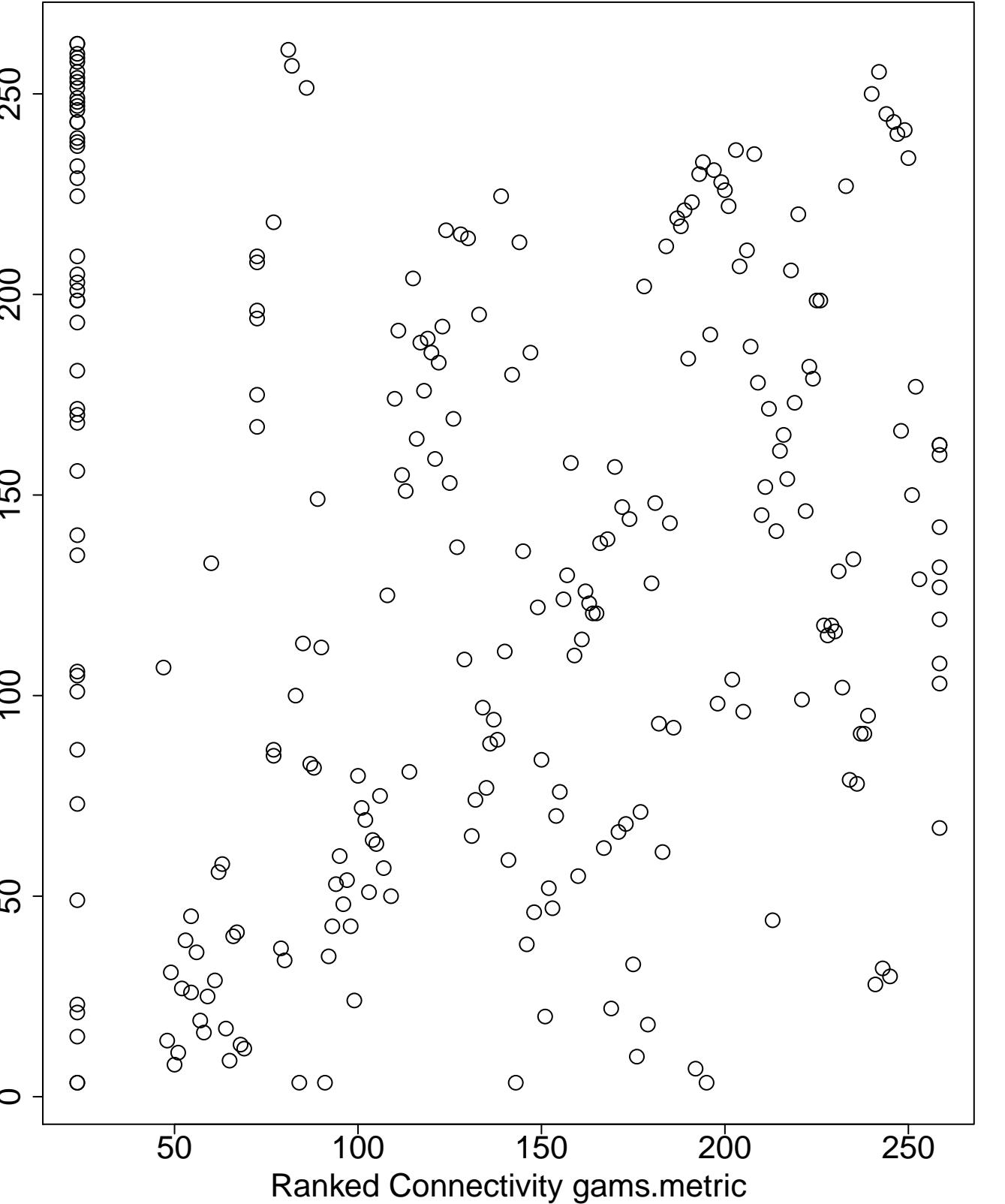
IndustrialMidwest correlation = 0.71



Northeast correlation = 0.18



Southeast correlation = 0.04



IndustrialMidwest correlation = 0.36

