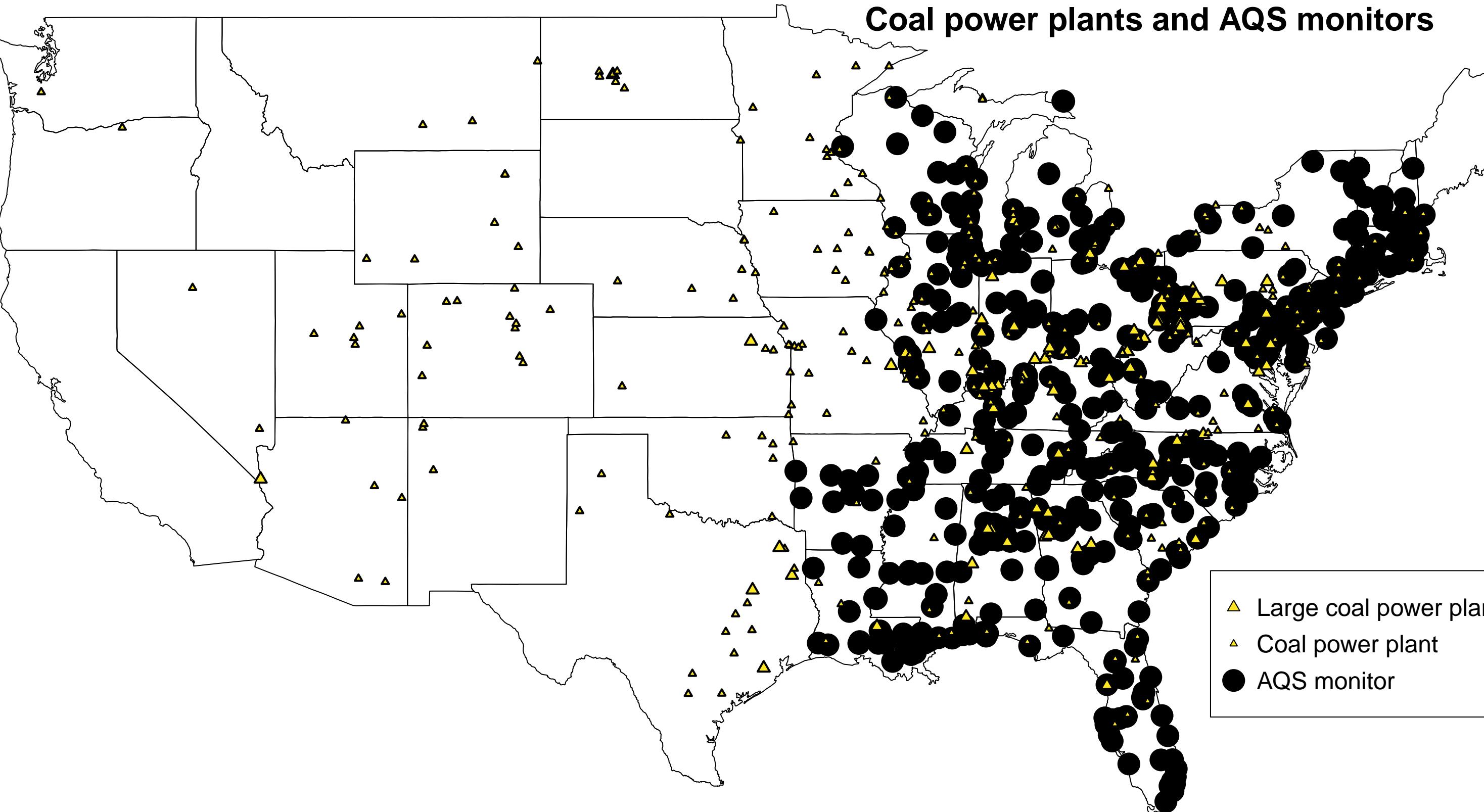
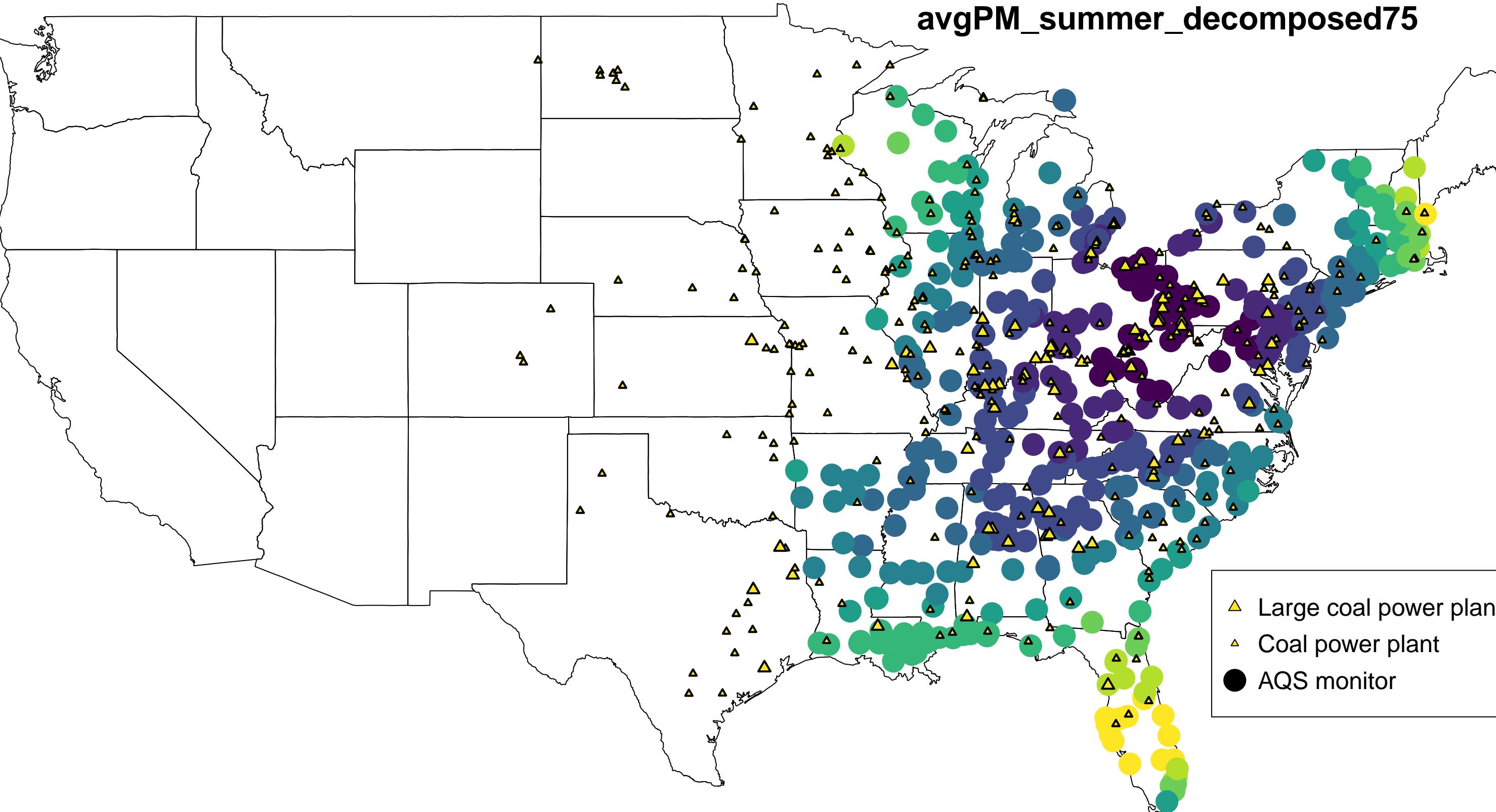


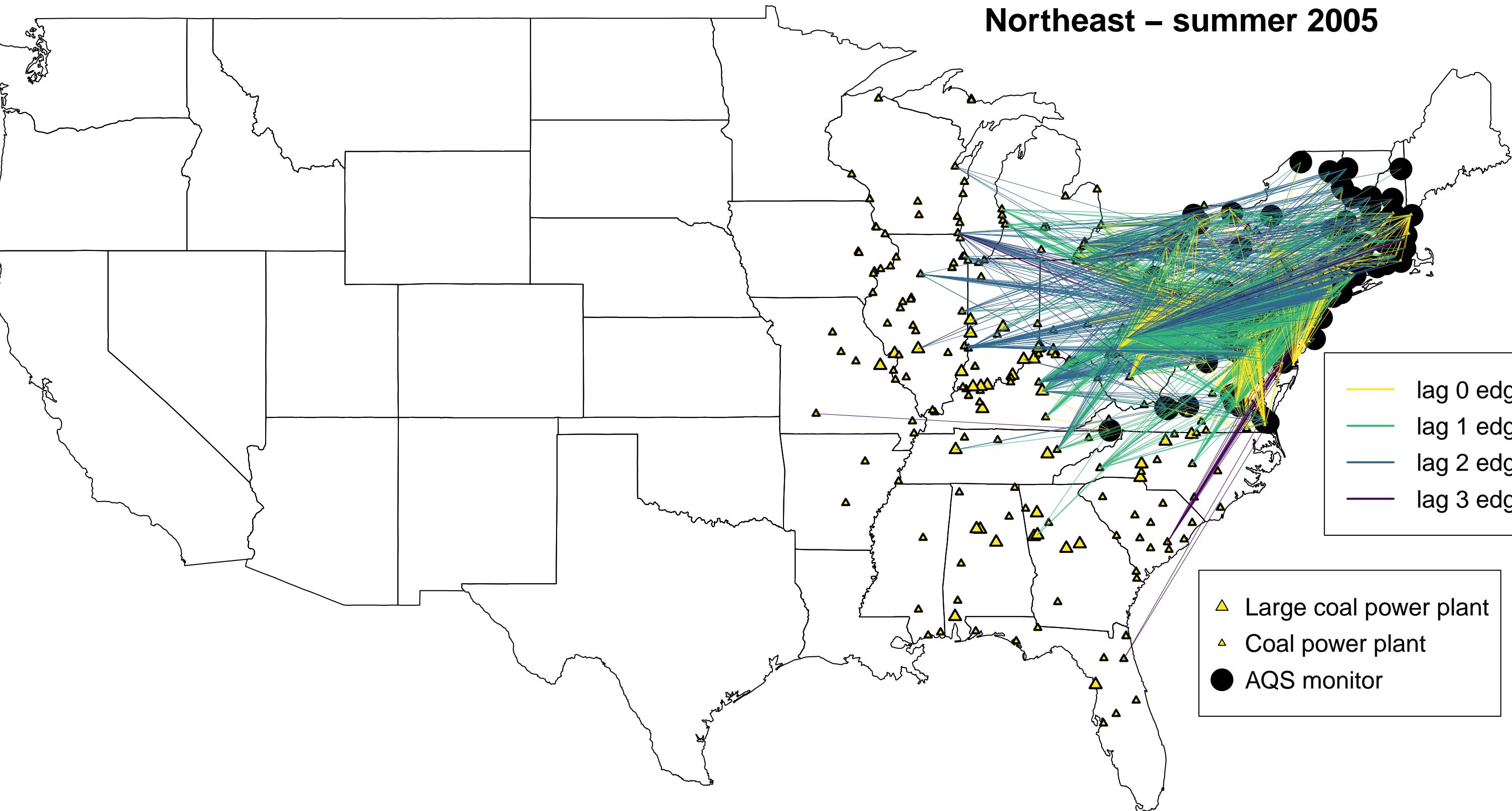
Coal power plants and AQS monitors



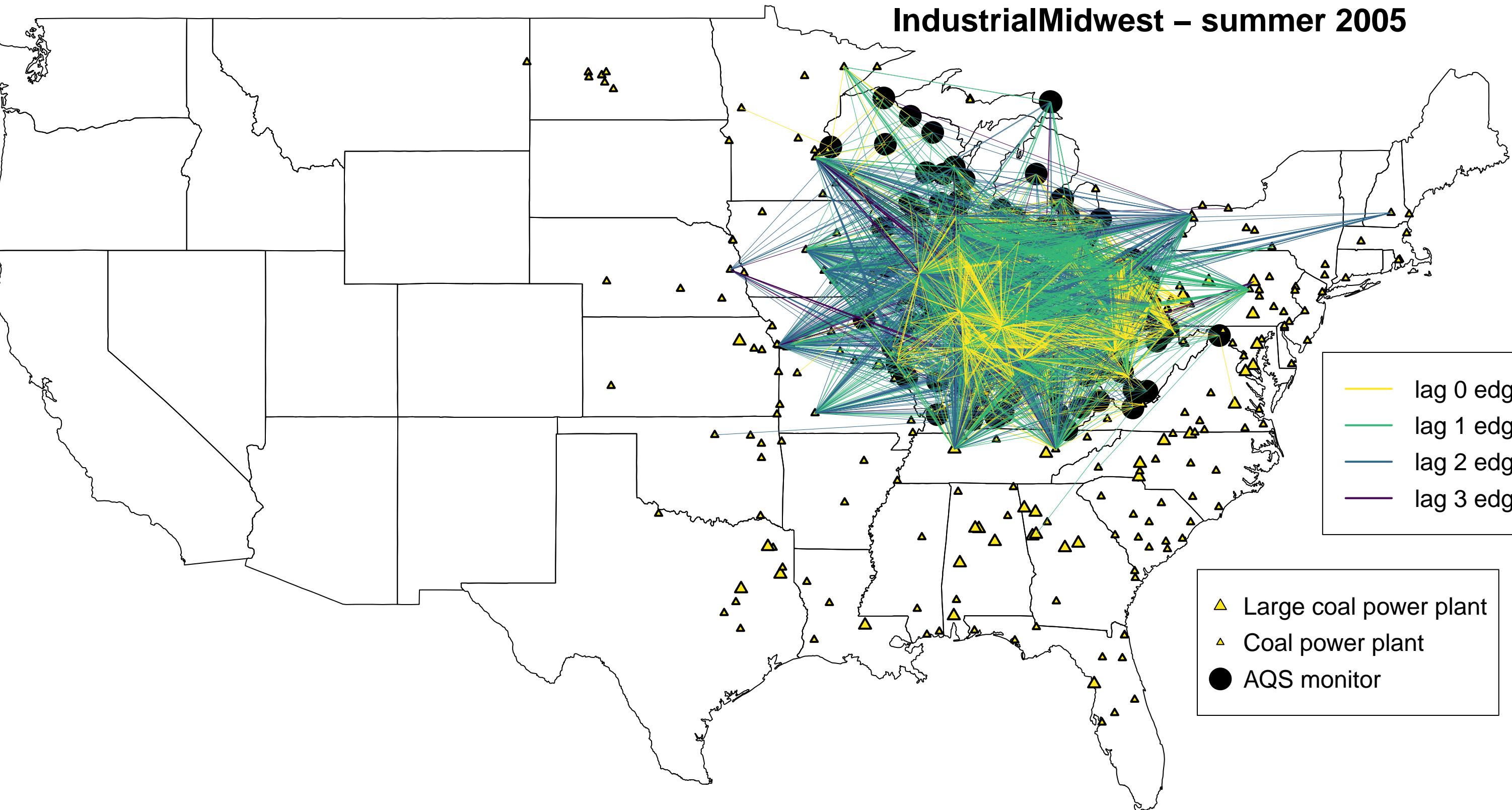
avgPM_summer_decomposed75



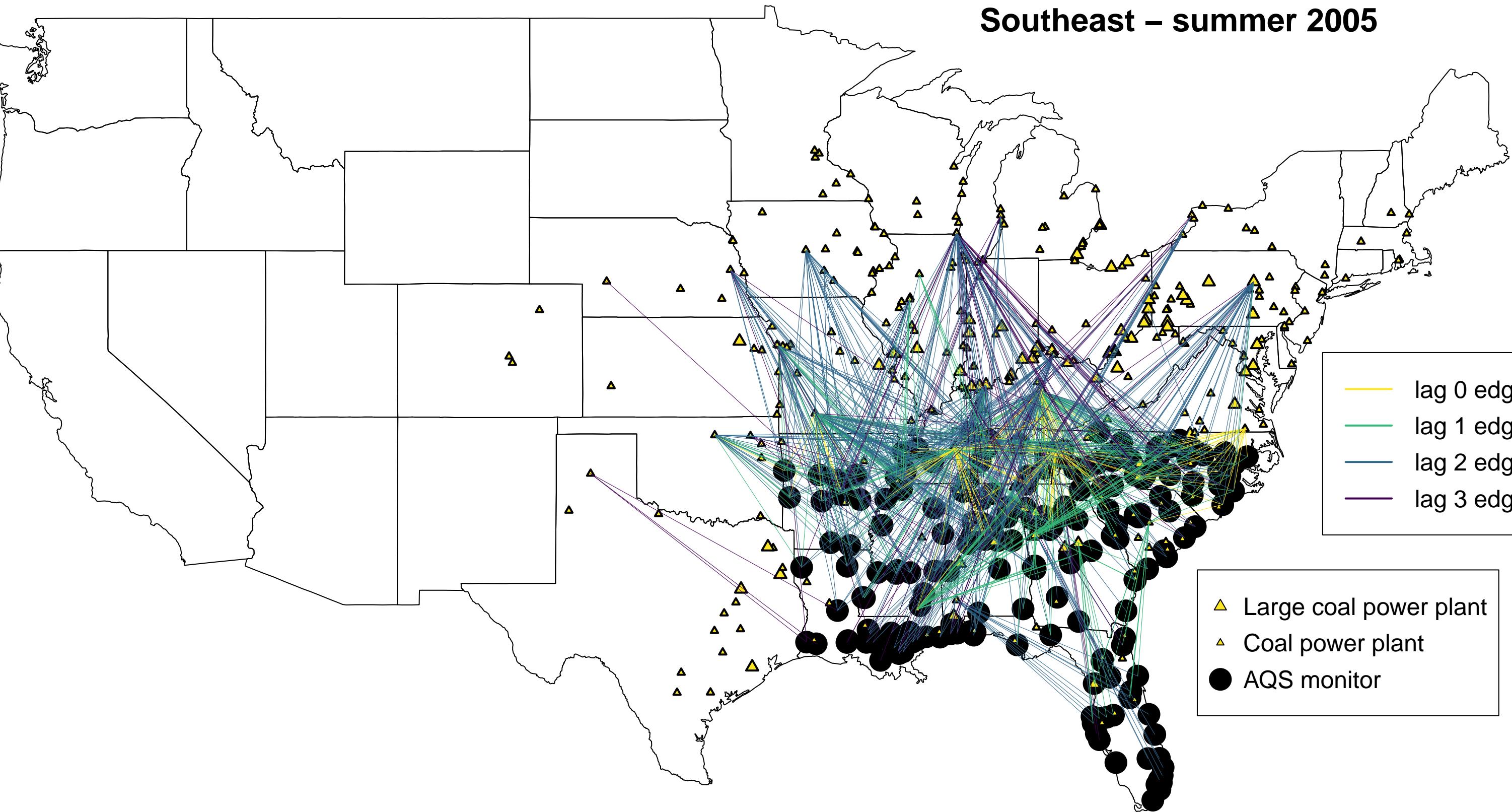
Northeast – summer 2005



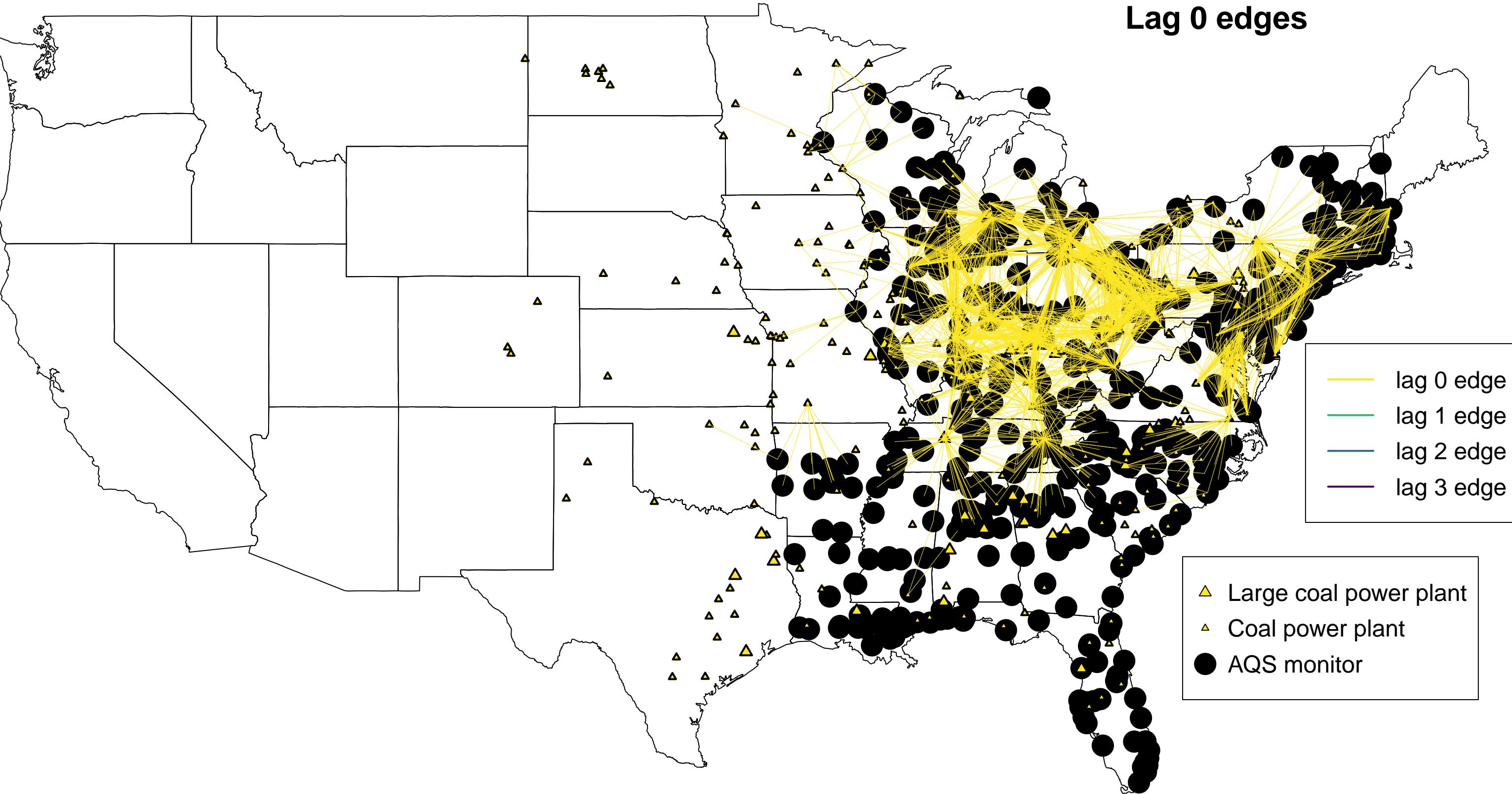
IndustrialMidwest – summer 2005



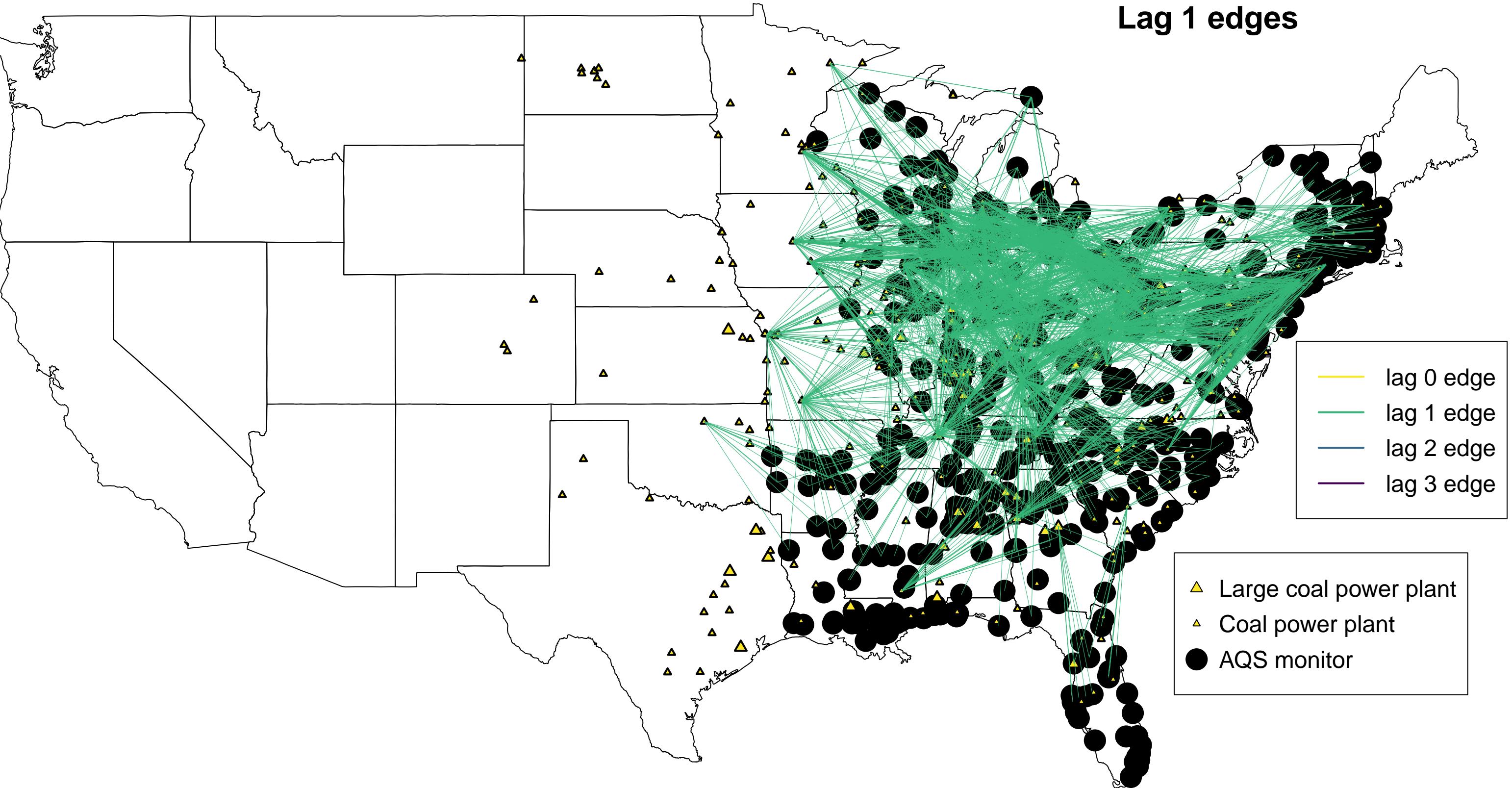
Southeast – summer 2005



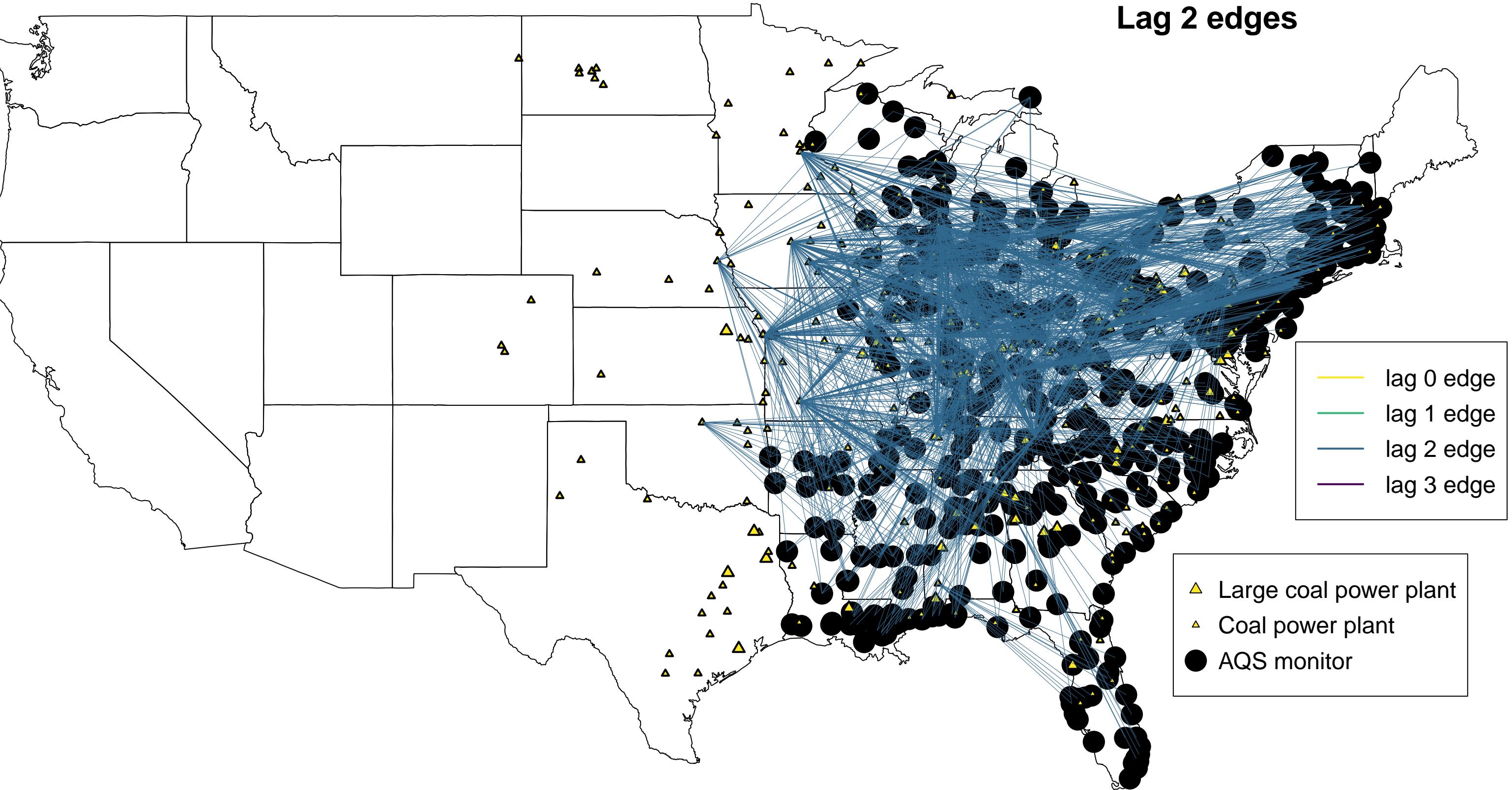
Lag 0 edges



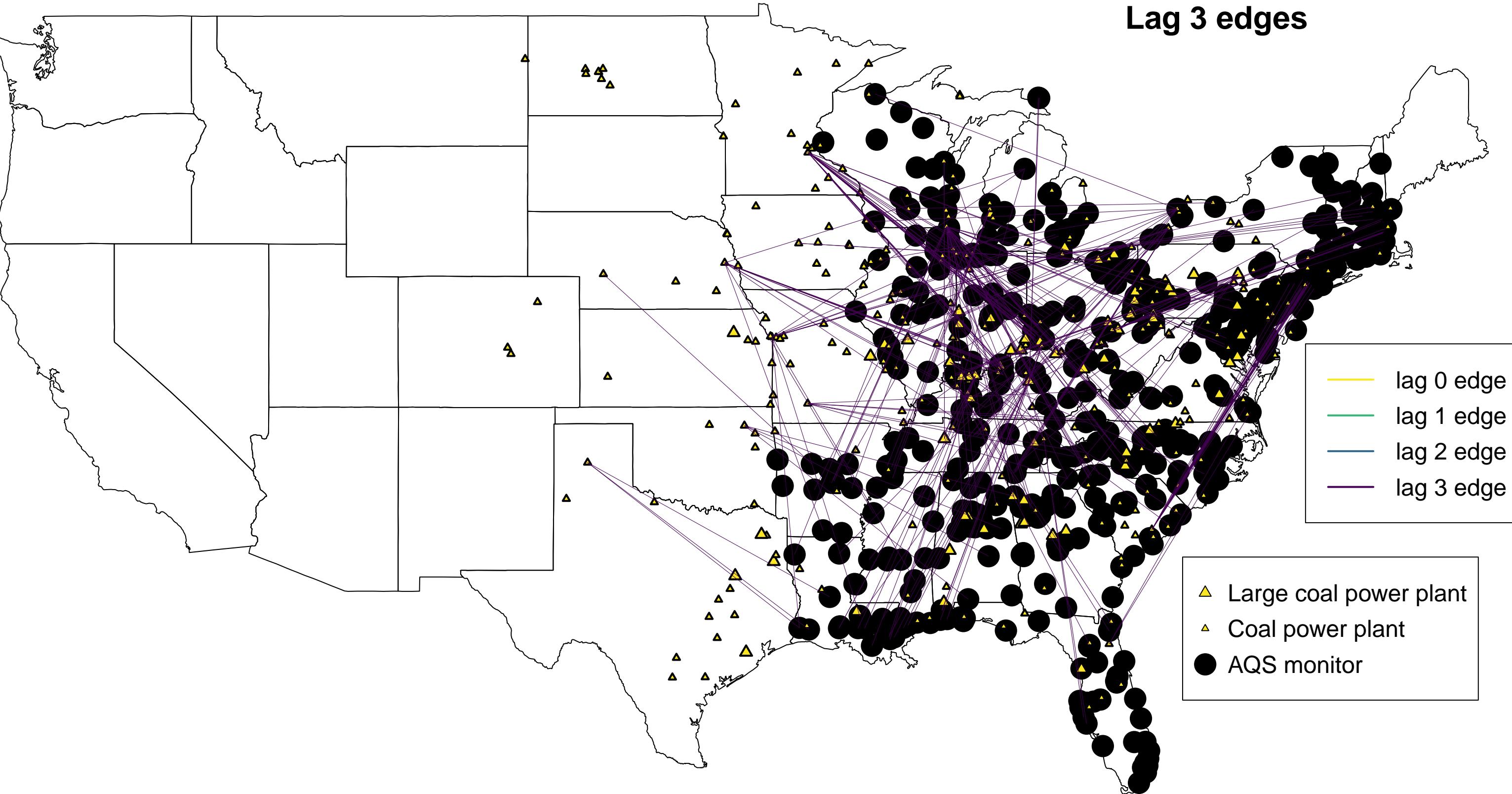
Lag 1 edges

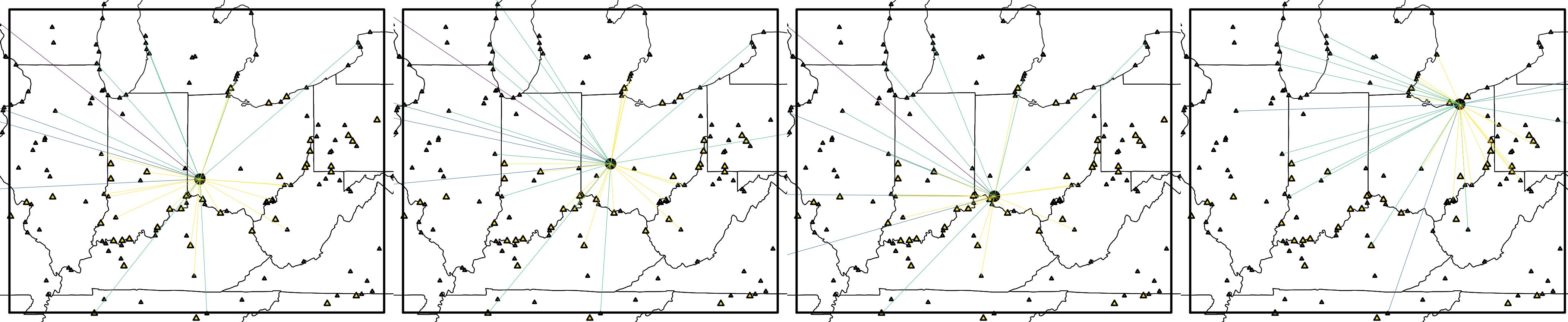


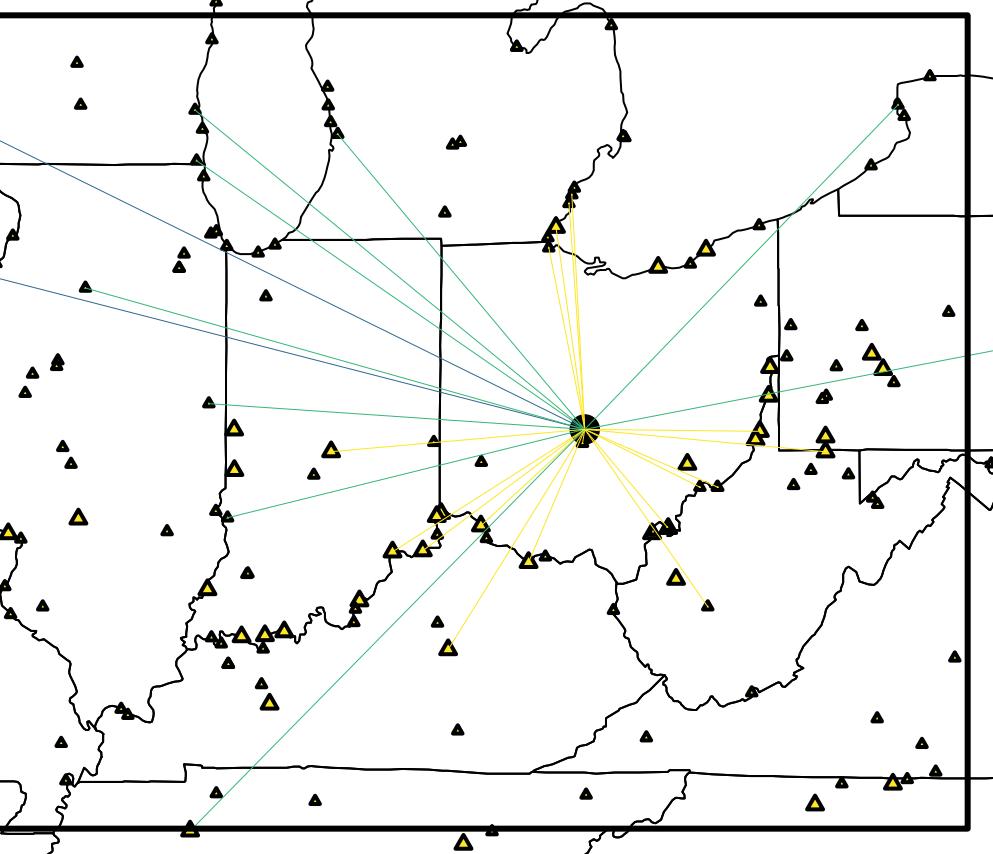
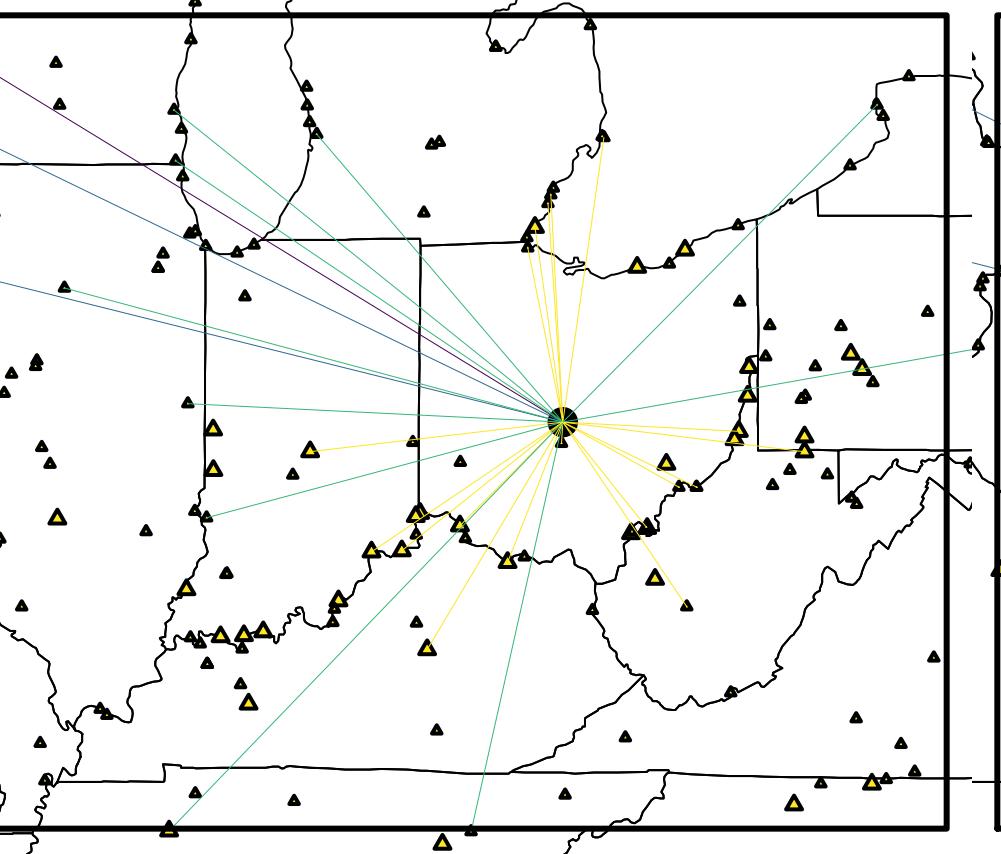
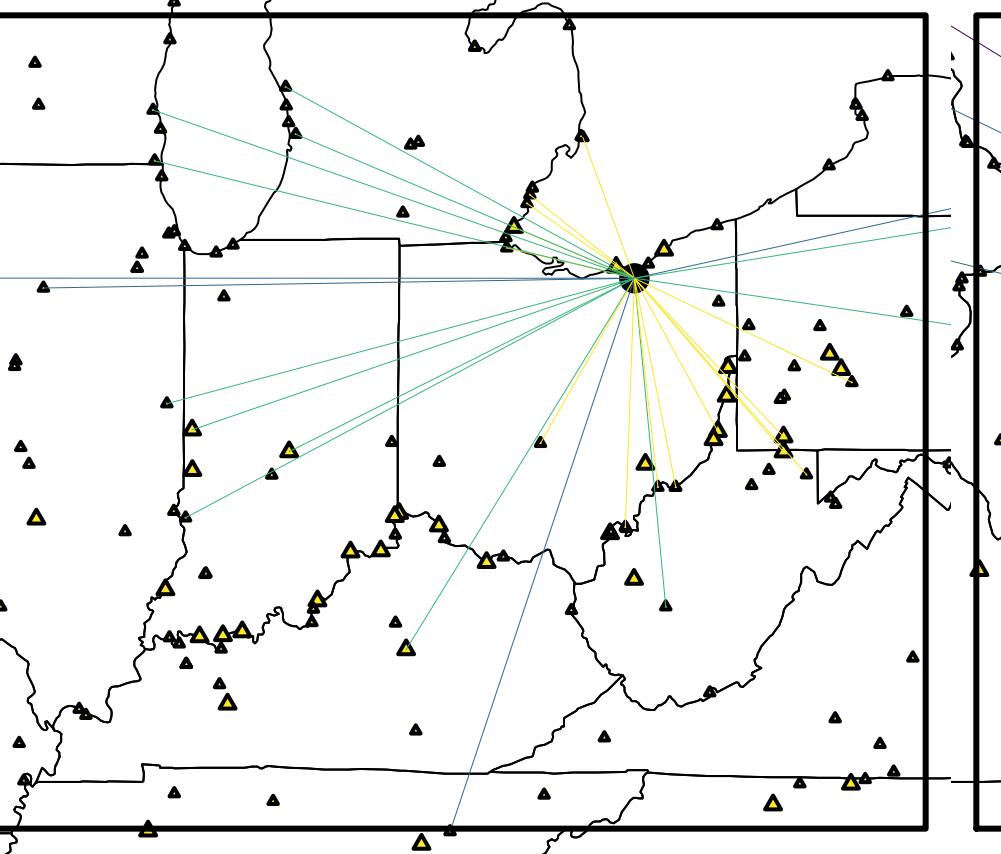
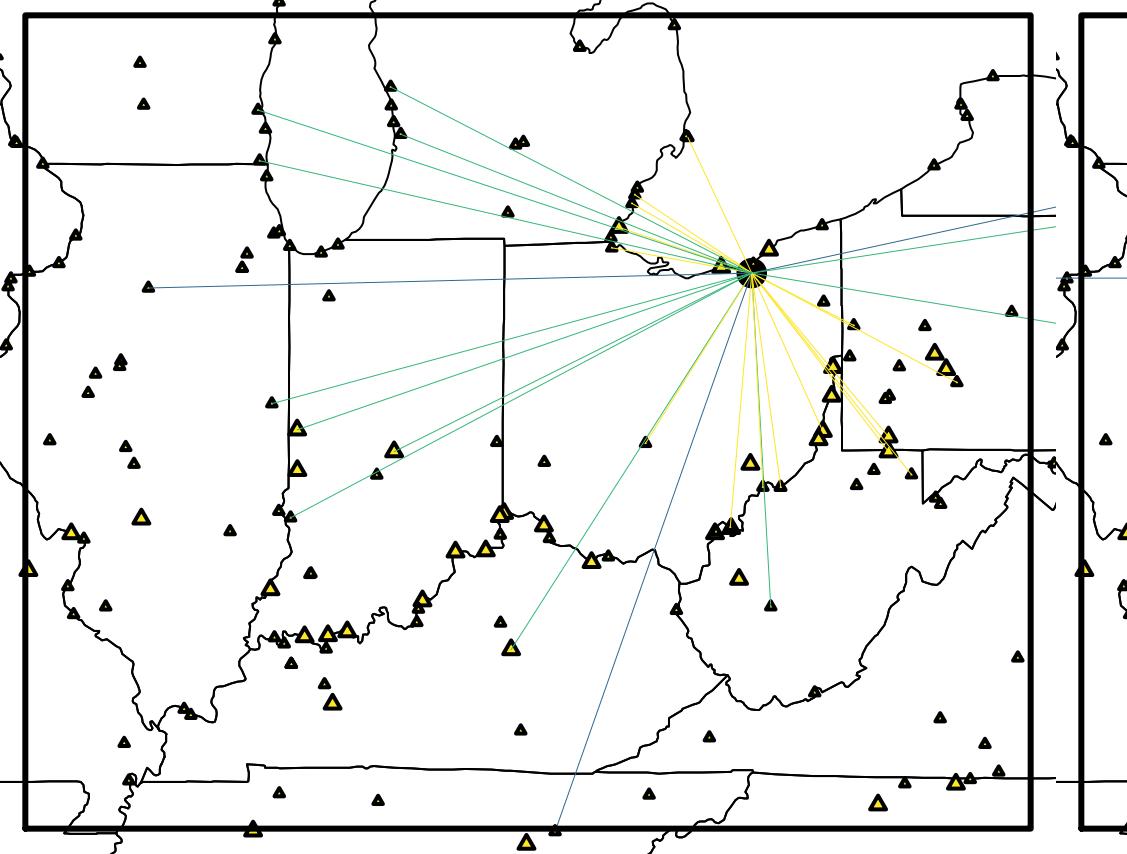
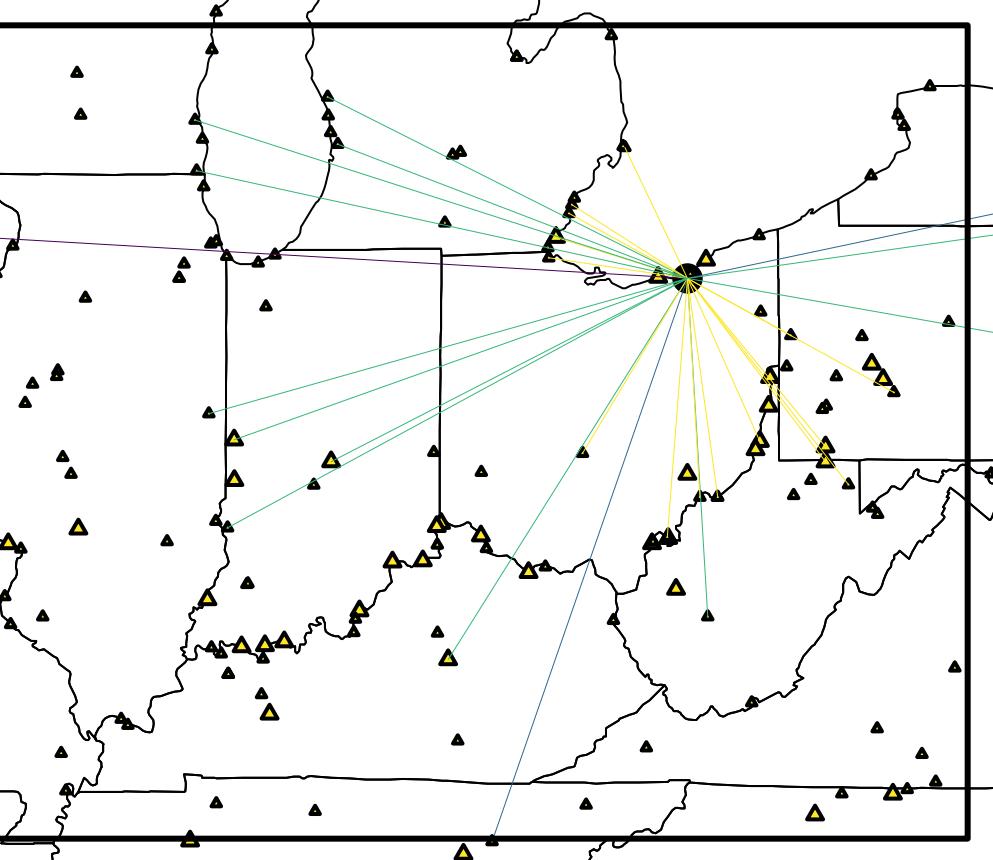
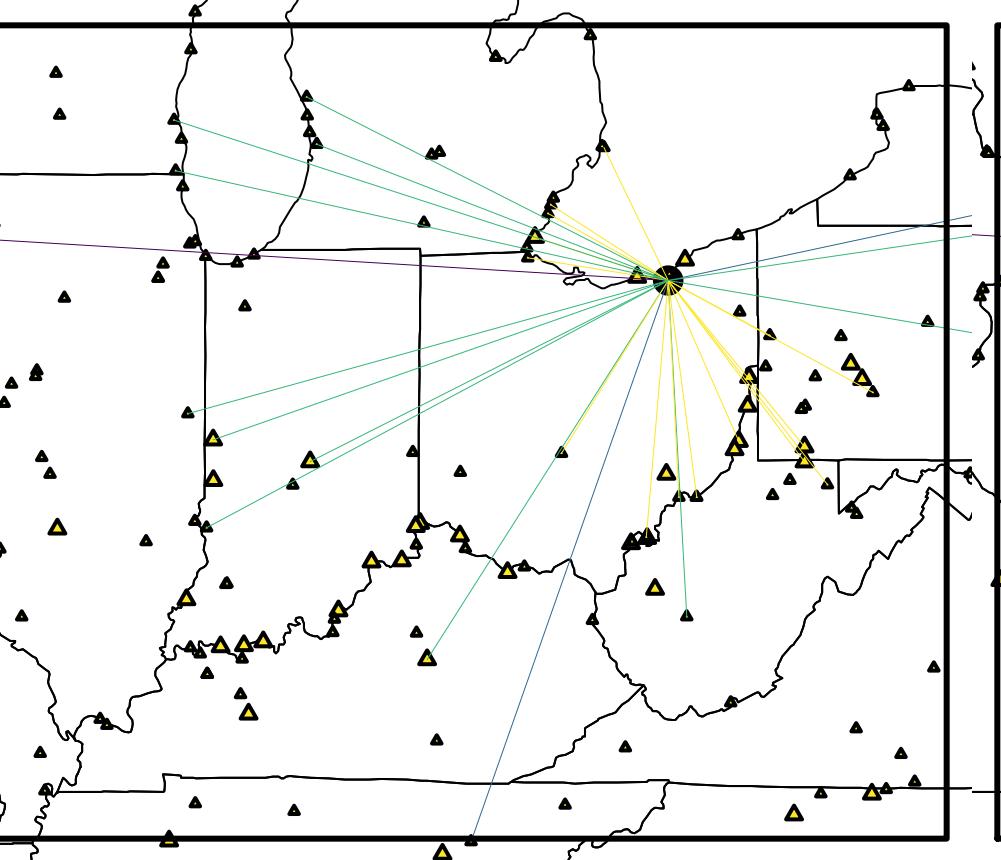
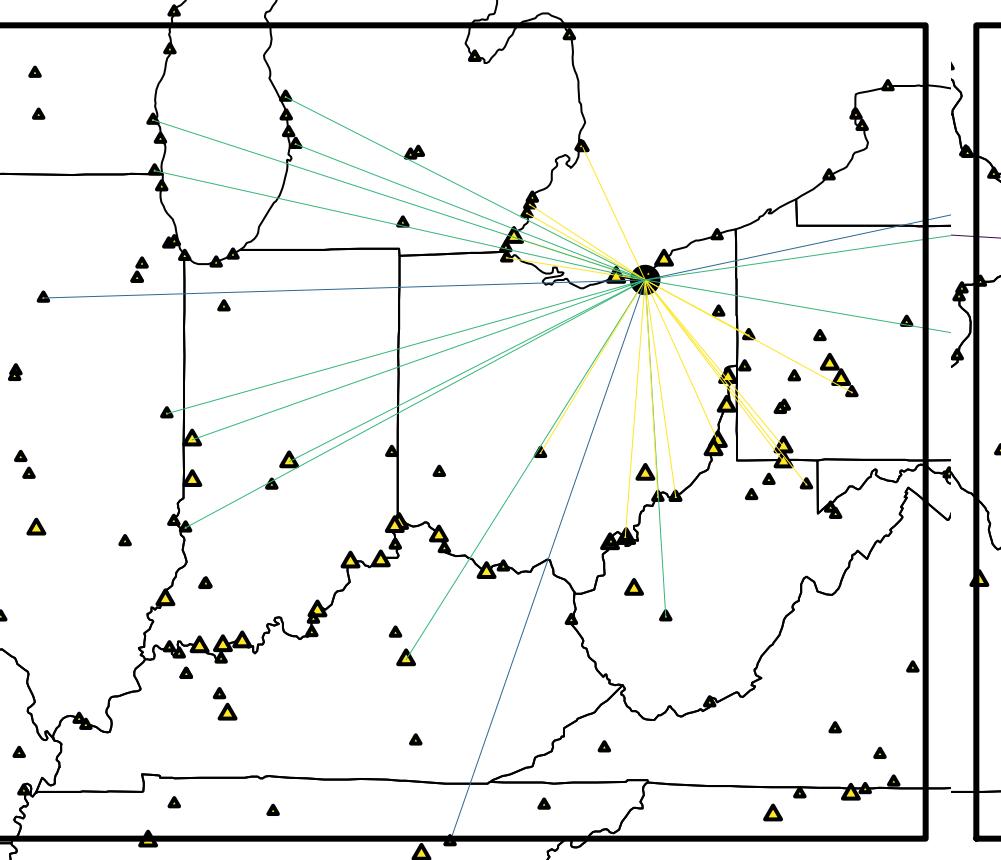
Lag 2 edges

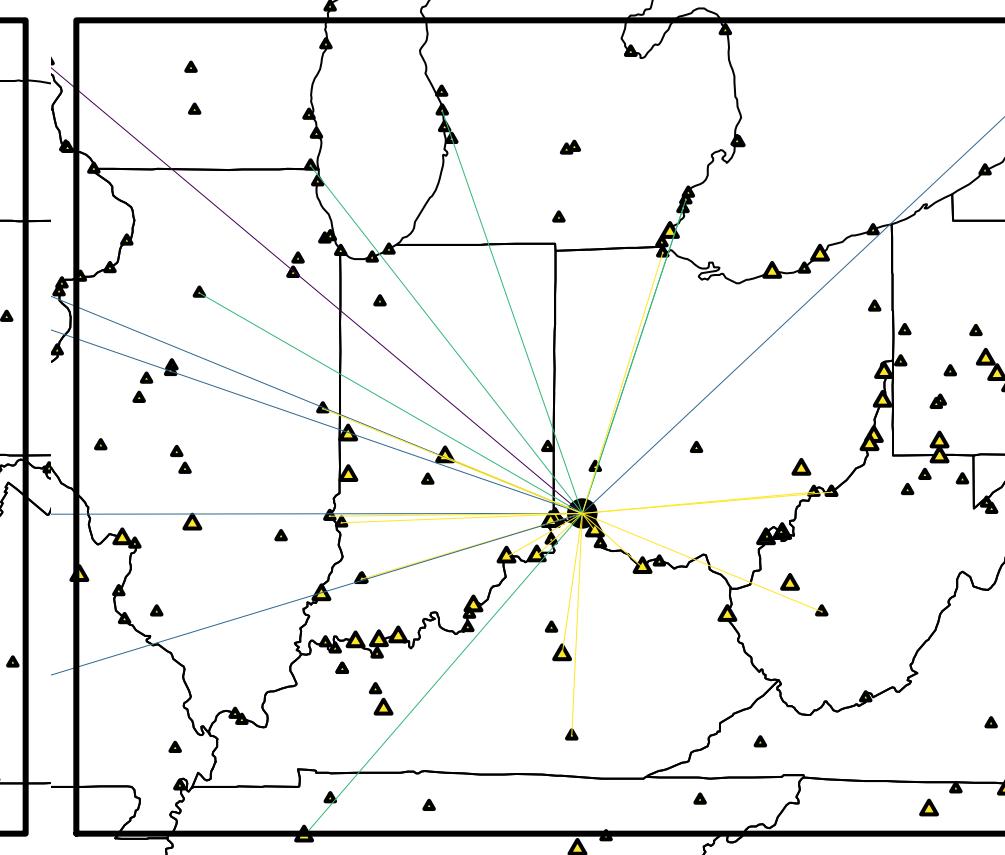
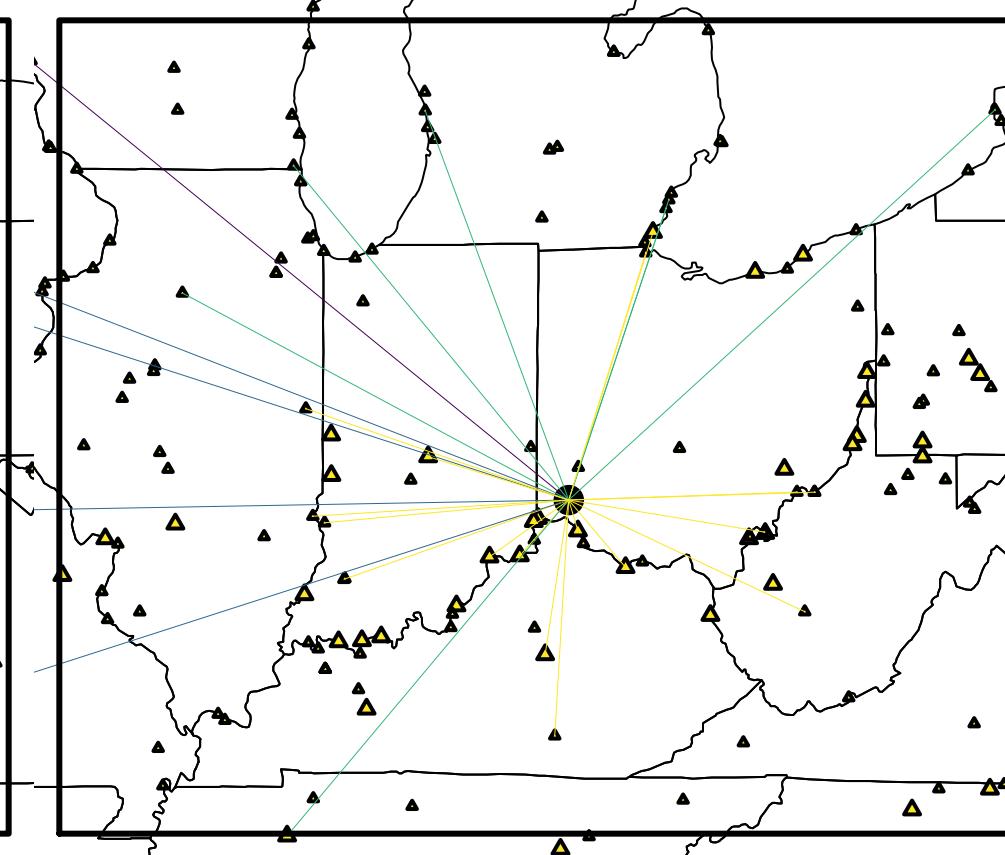
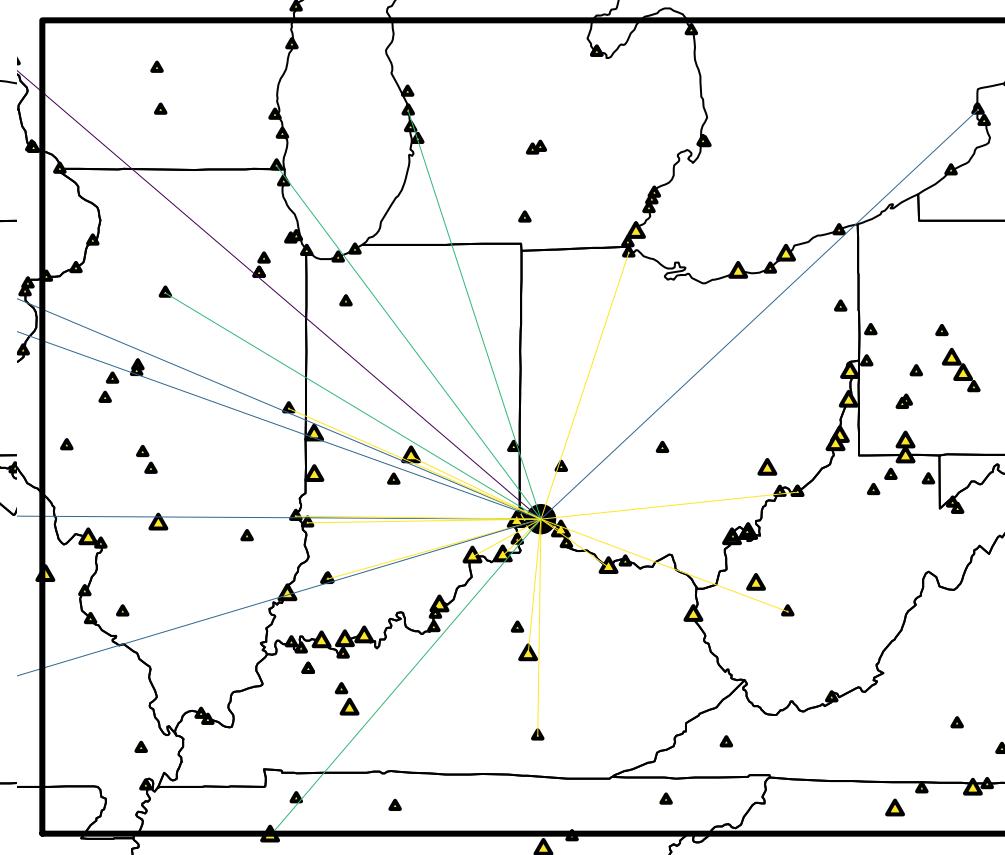
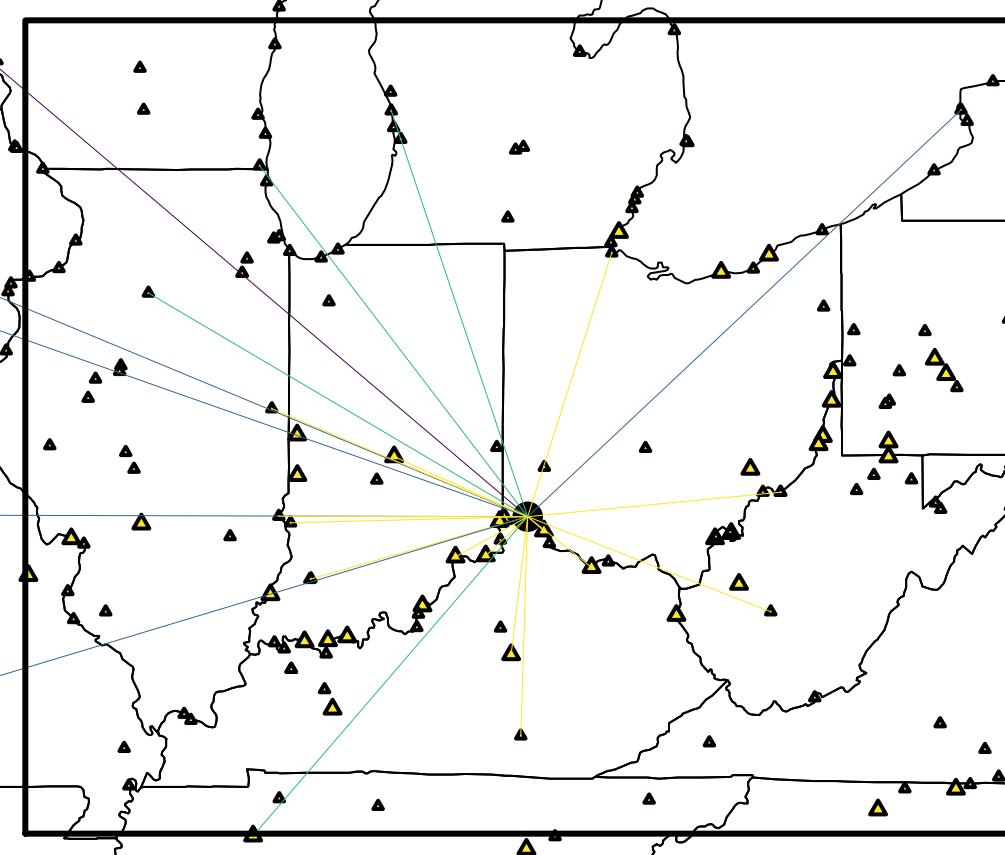
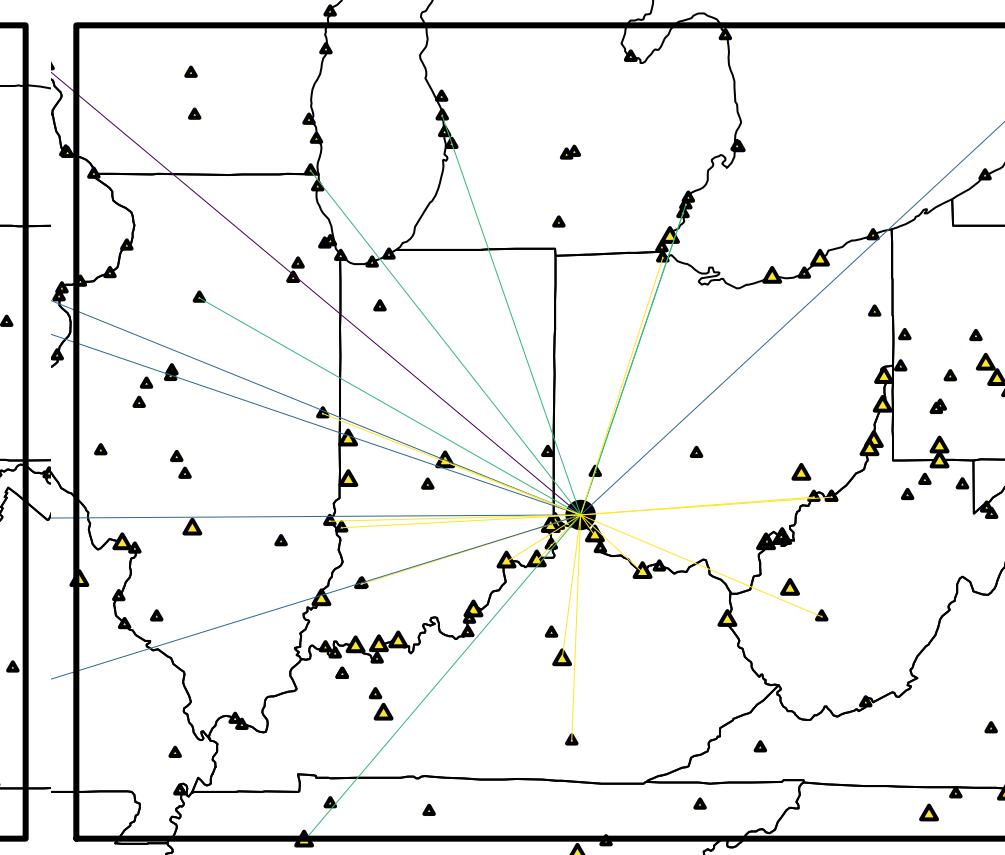
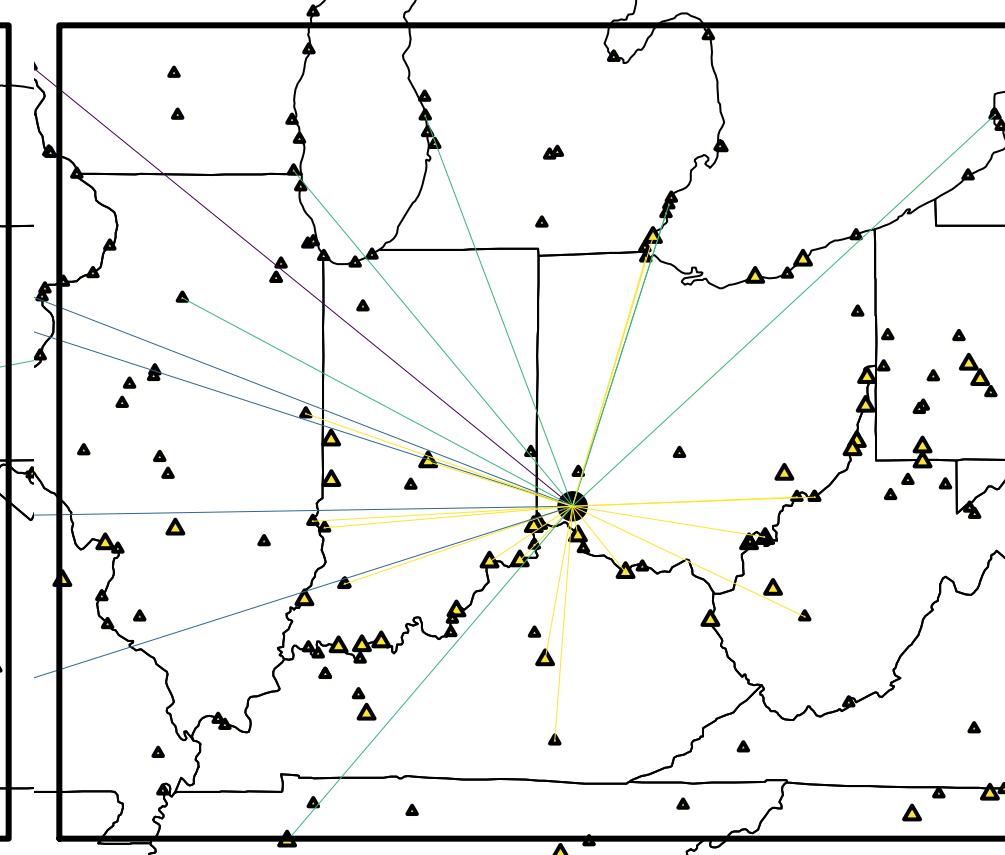
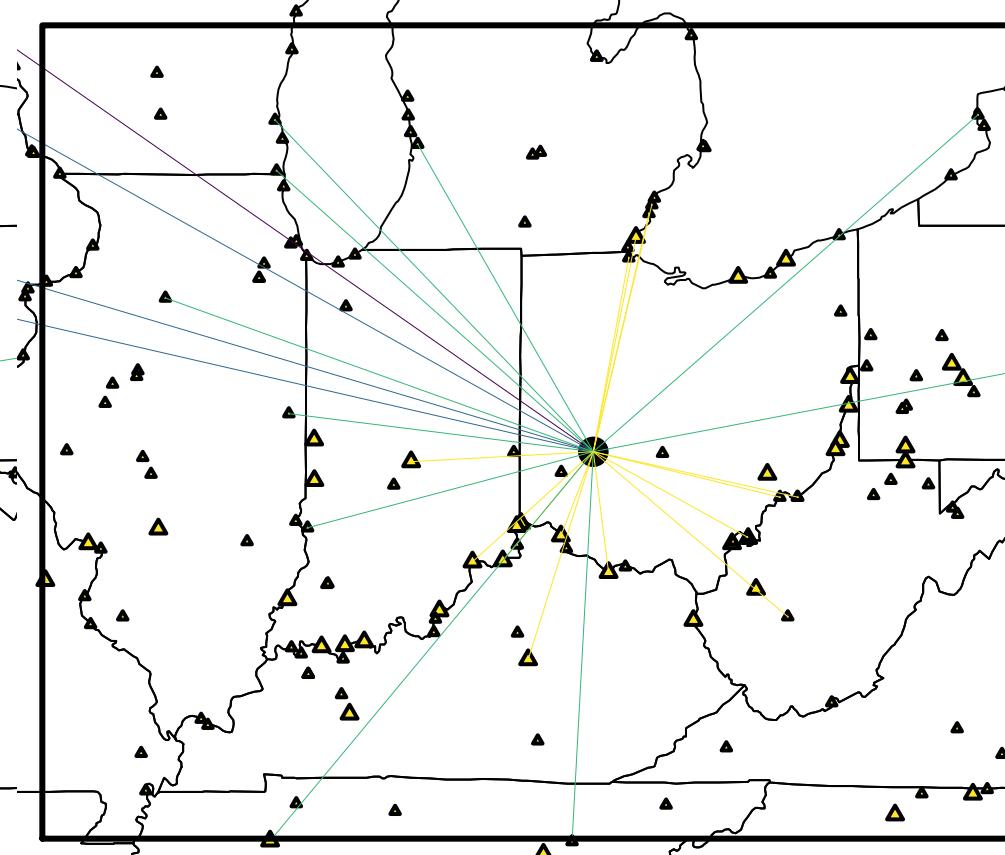
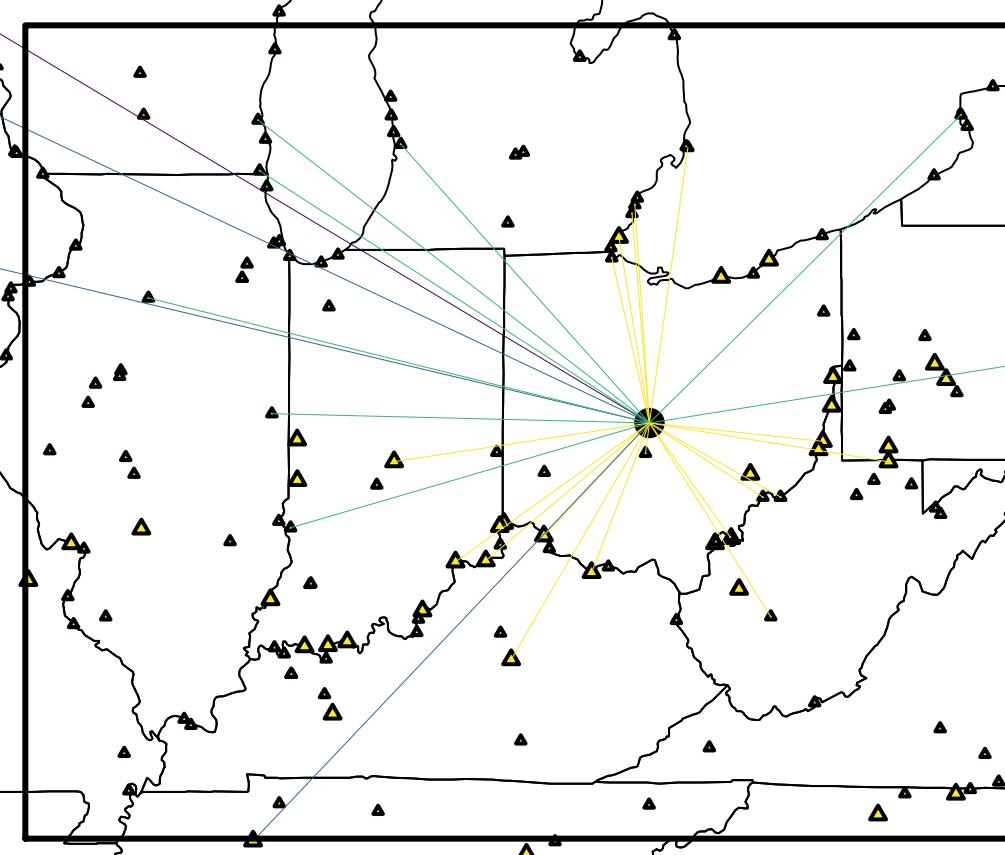


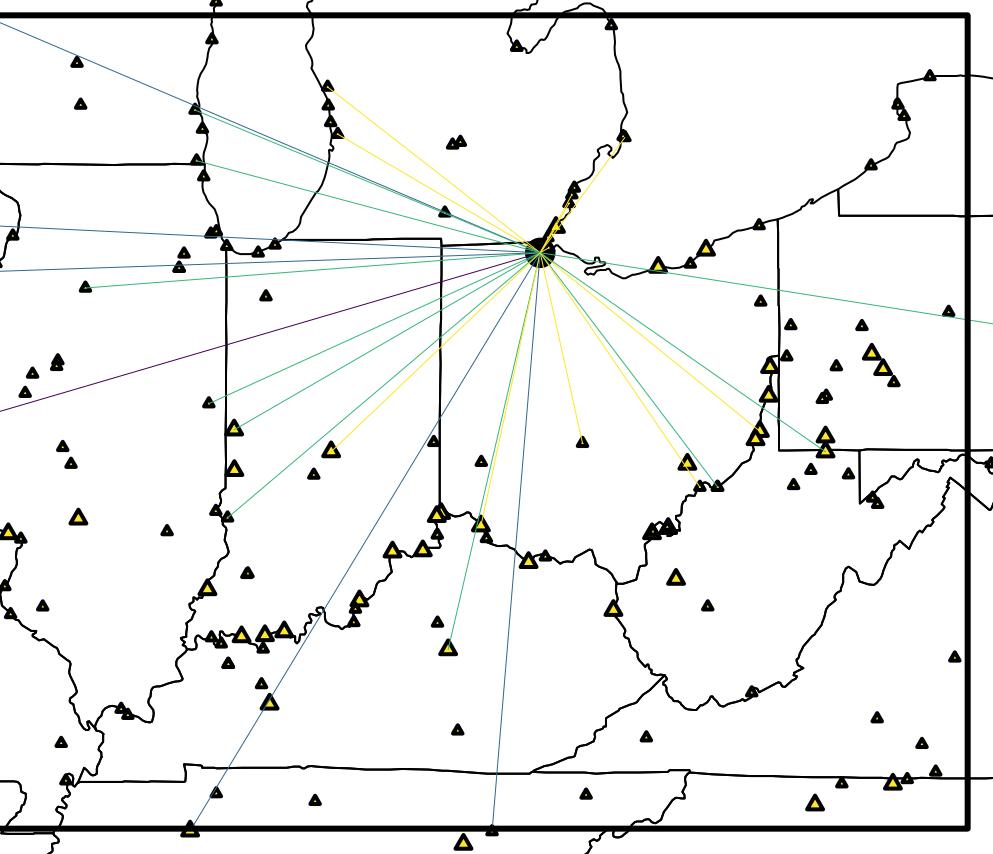
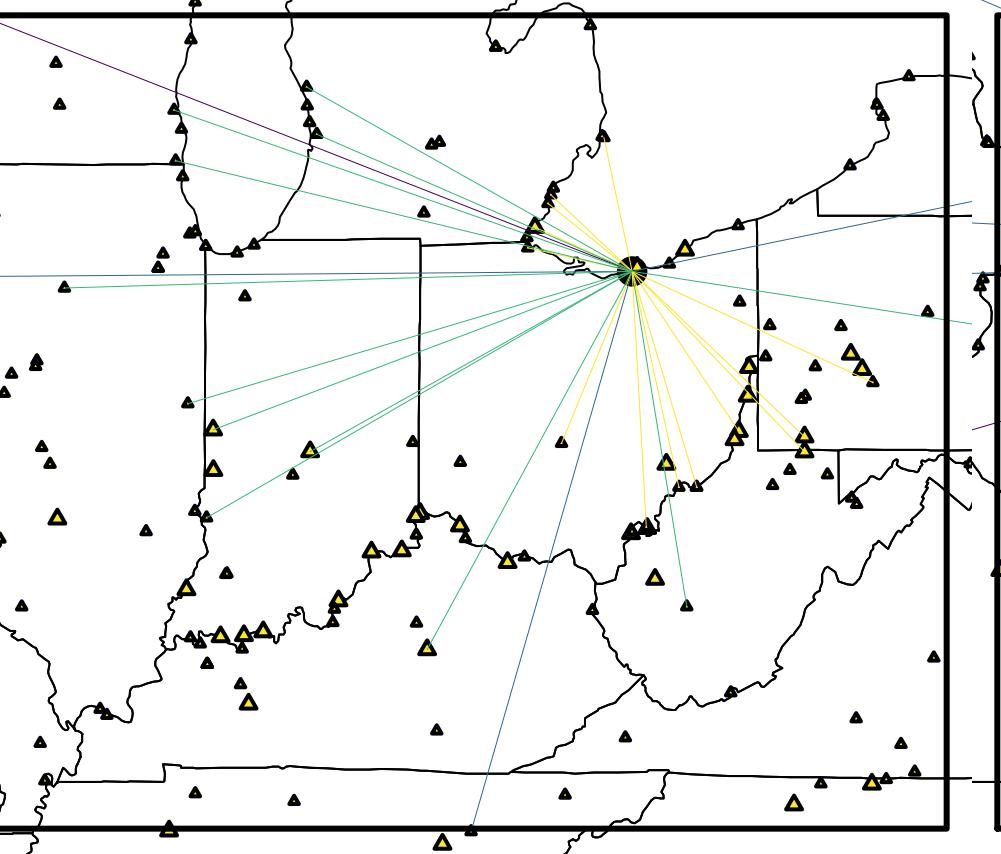
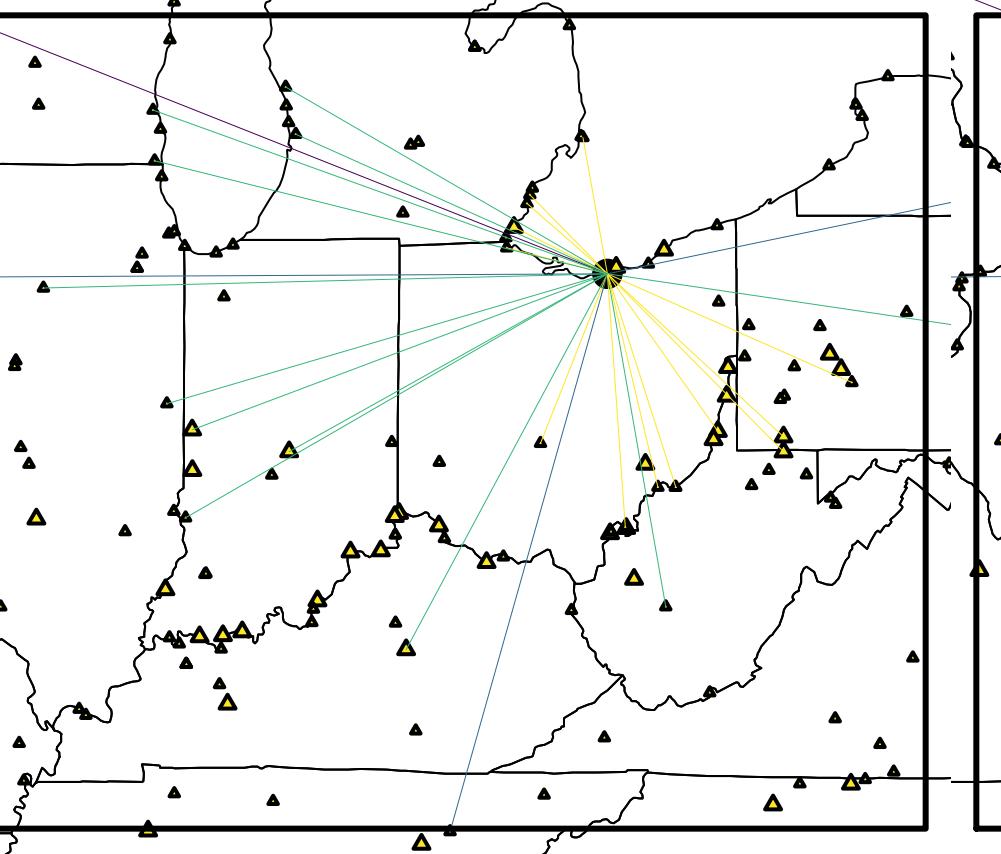
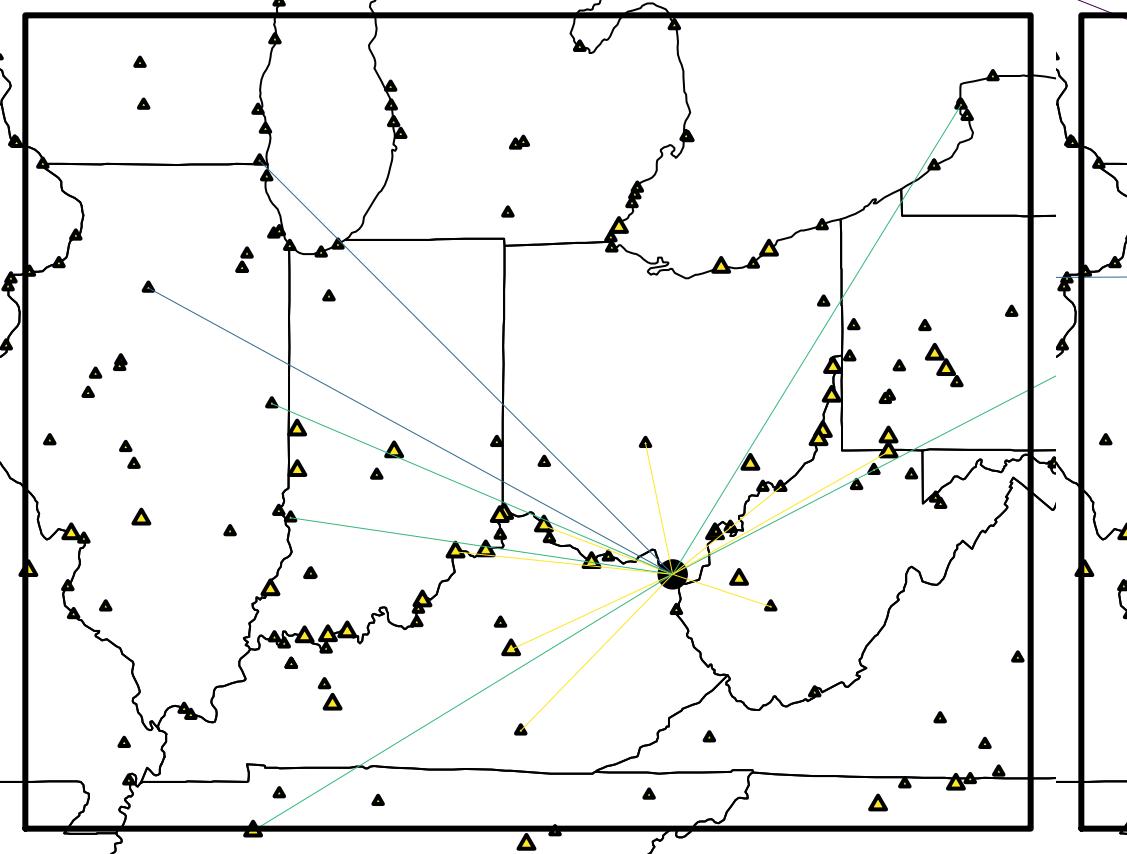
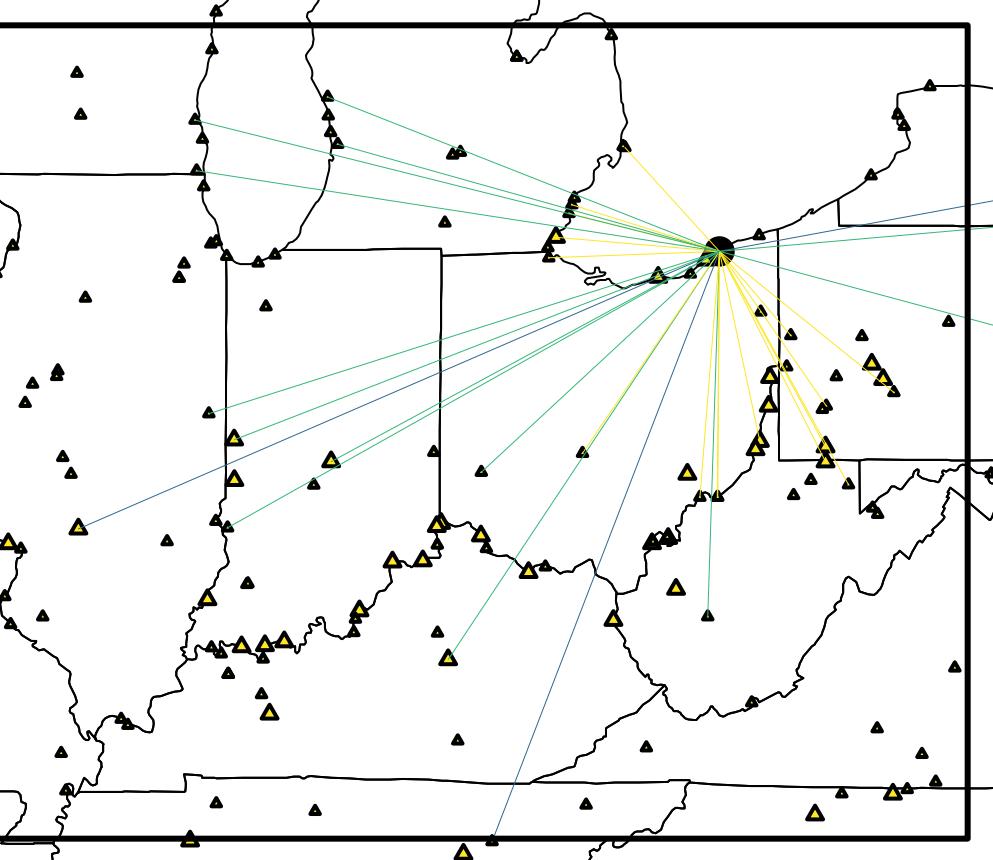
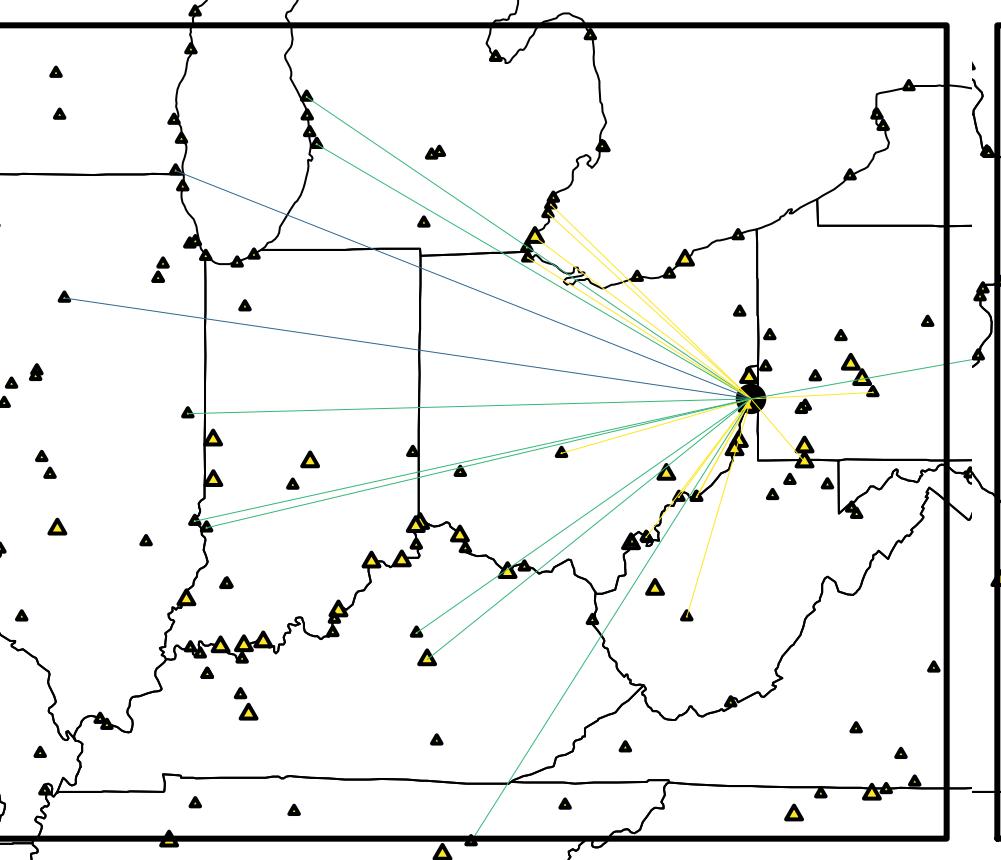
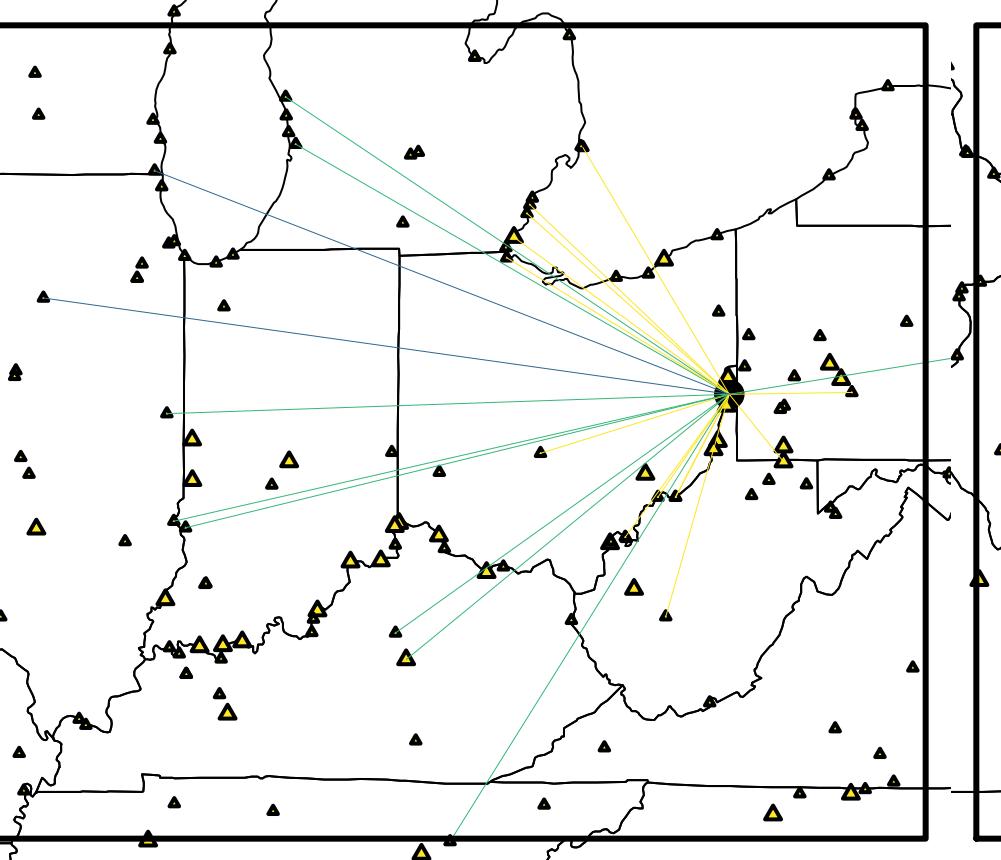
Lag 3 edges

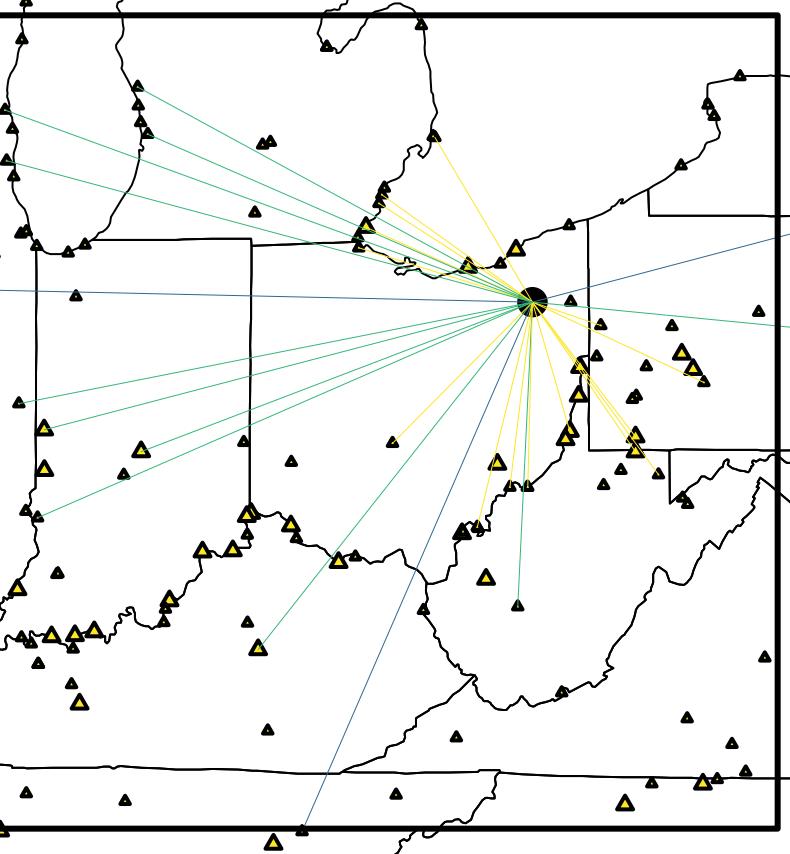
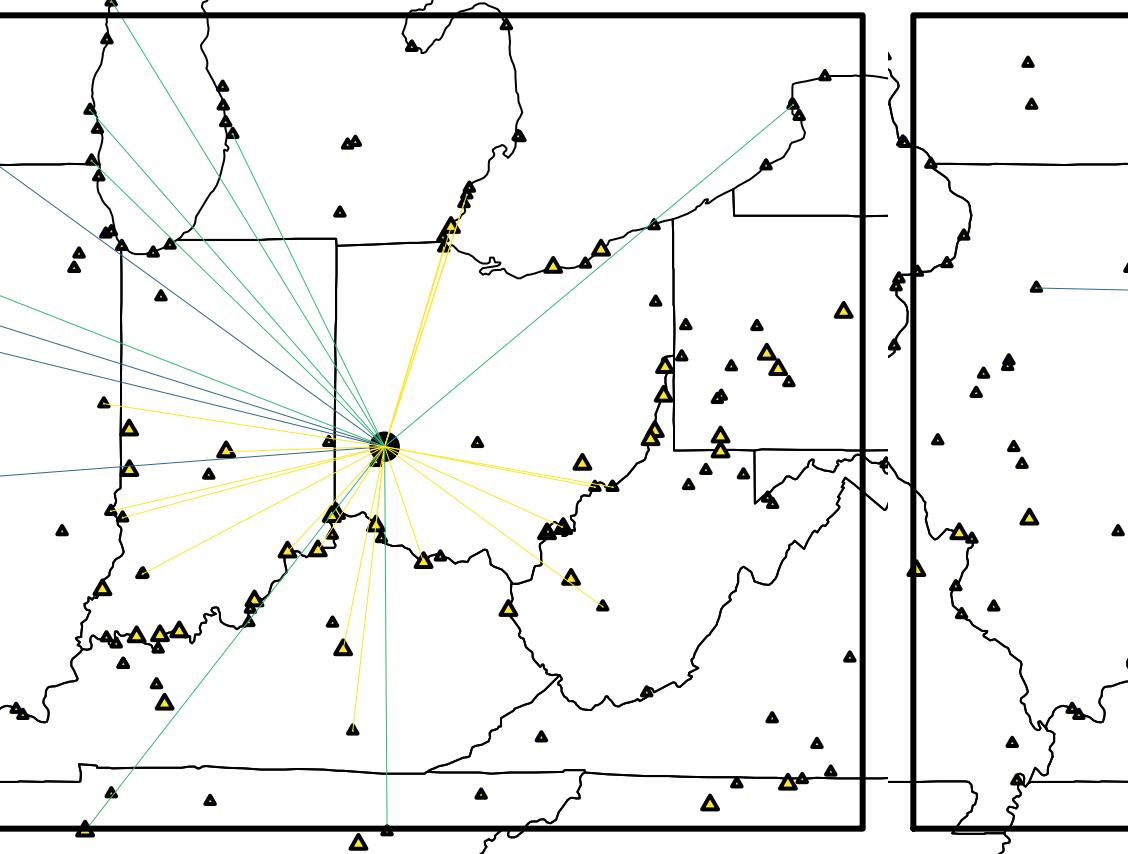
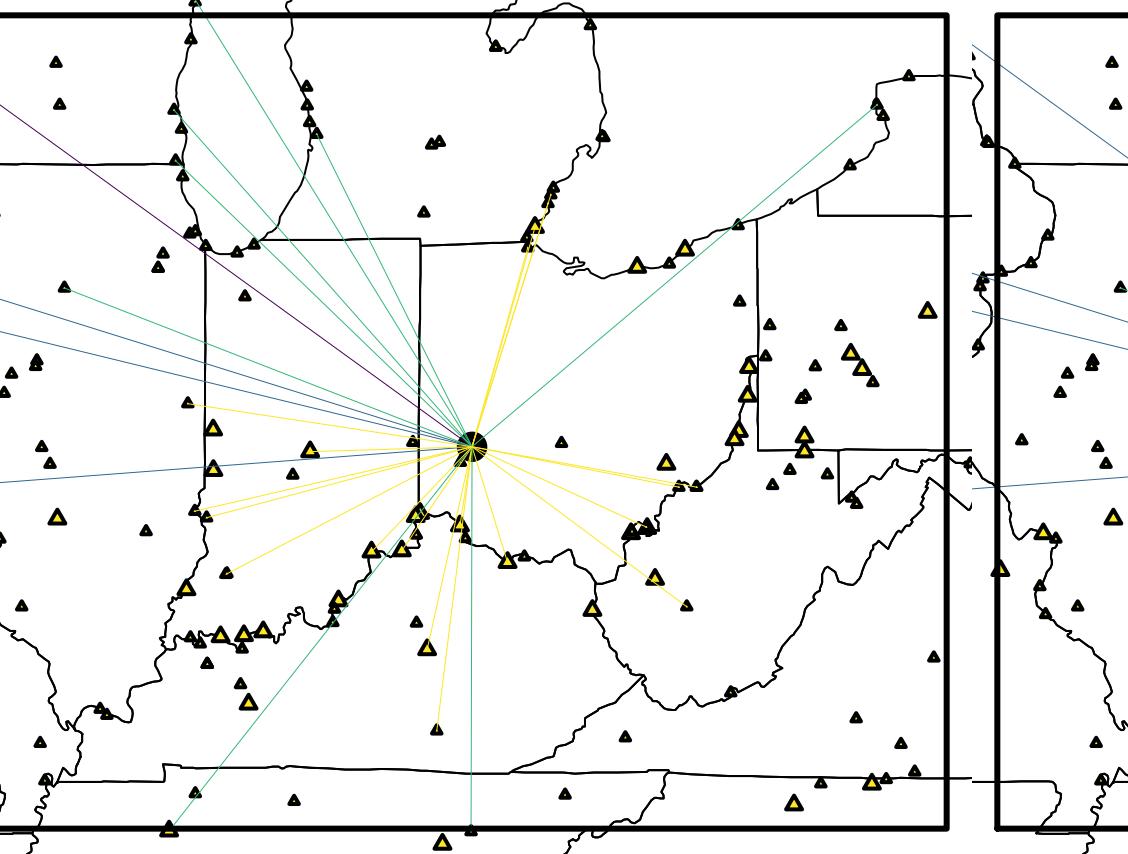
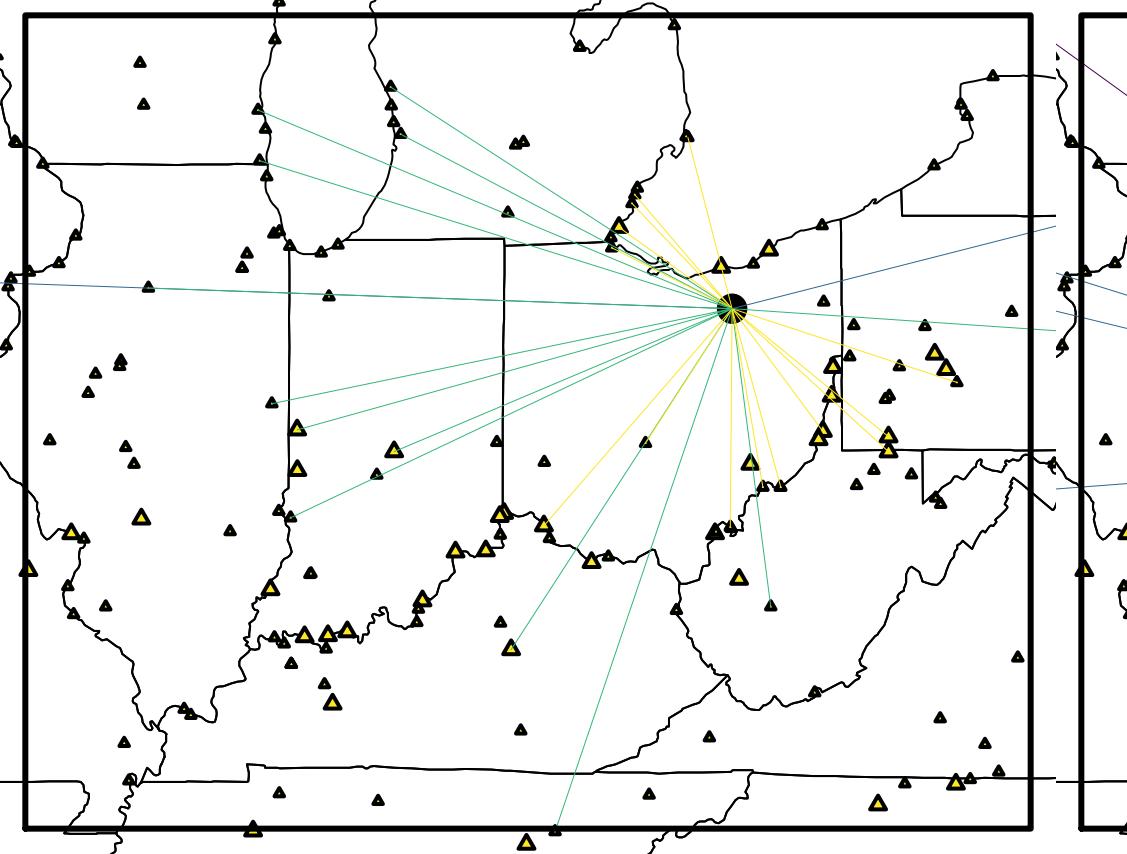
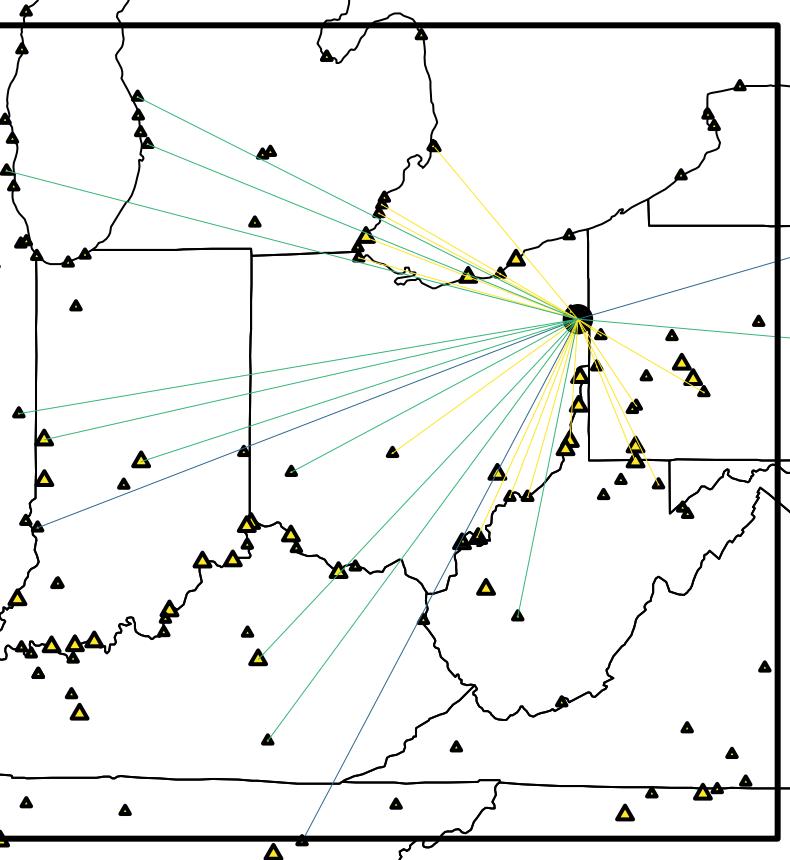
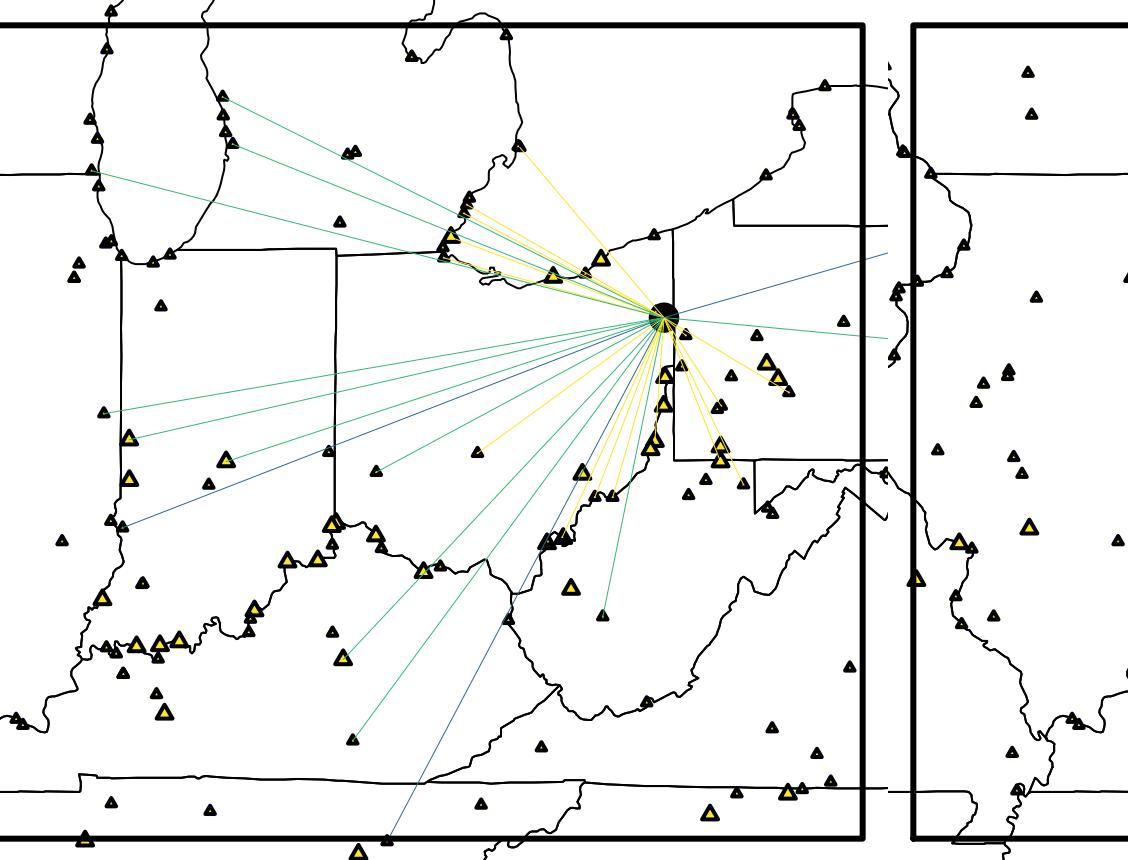
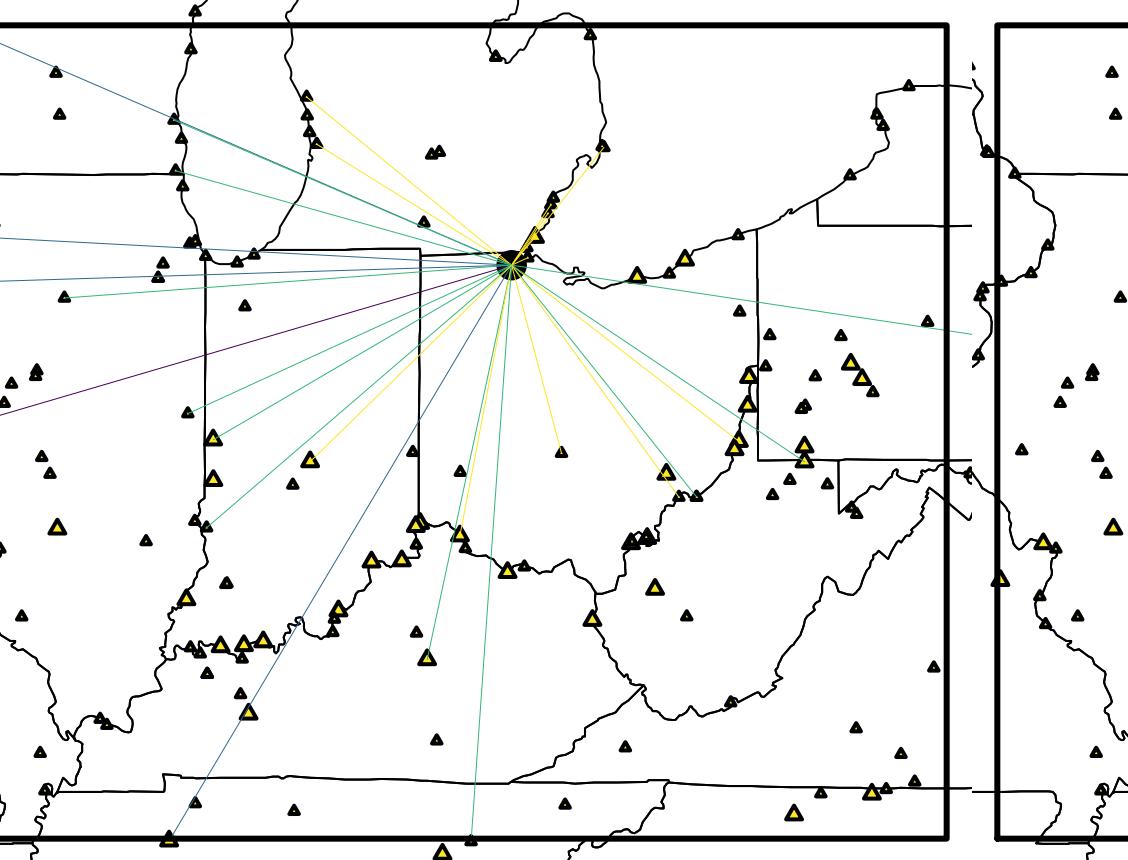


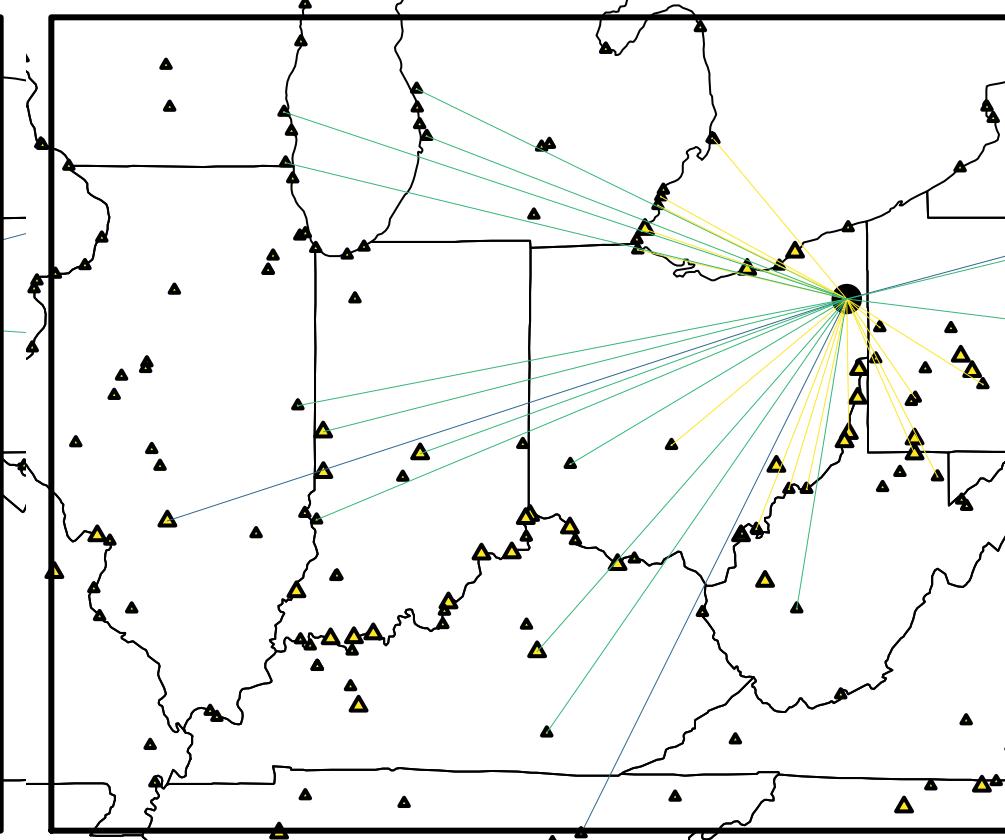
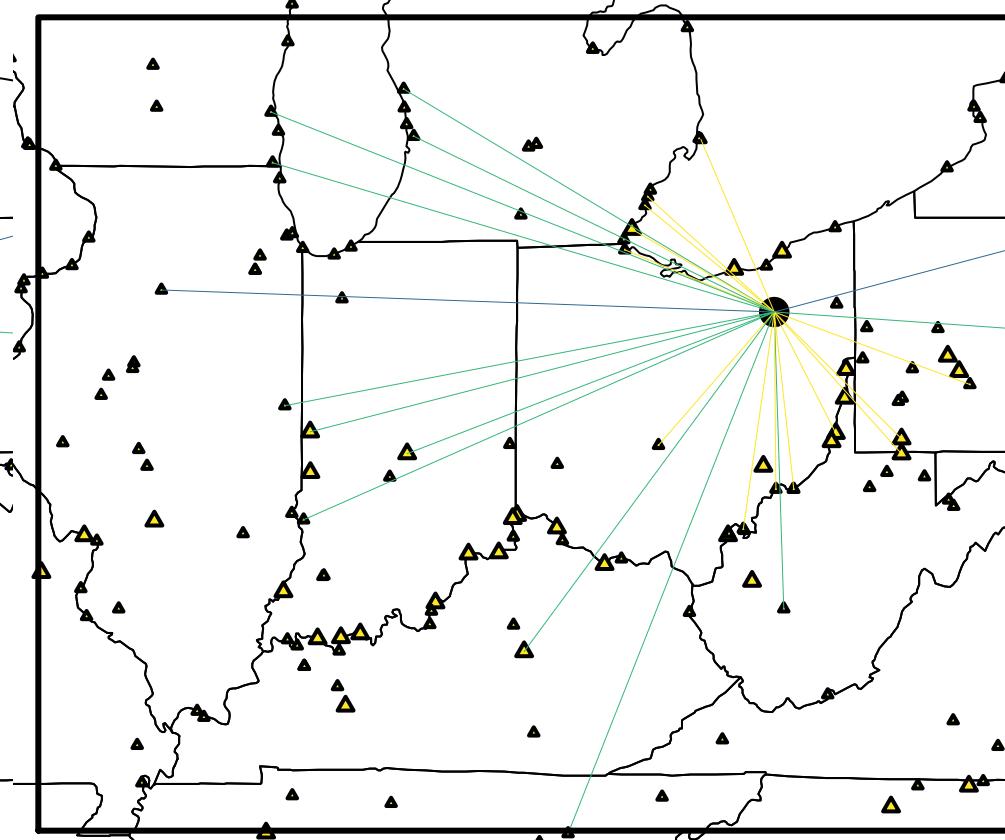
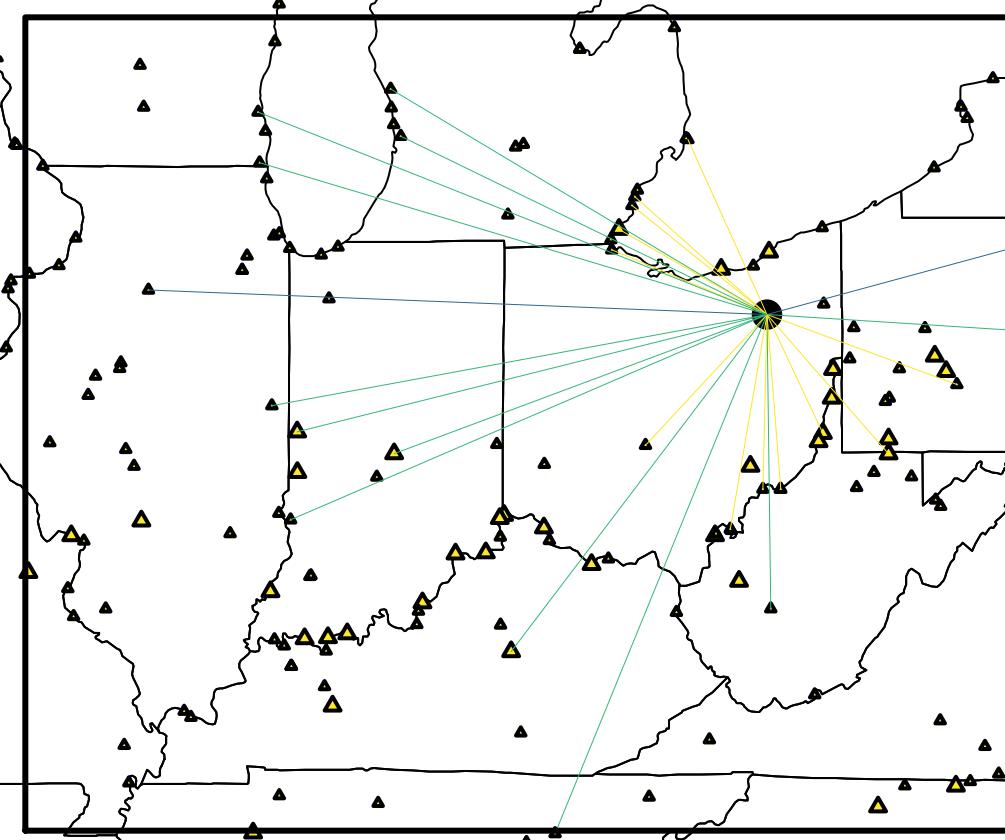
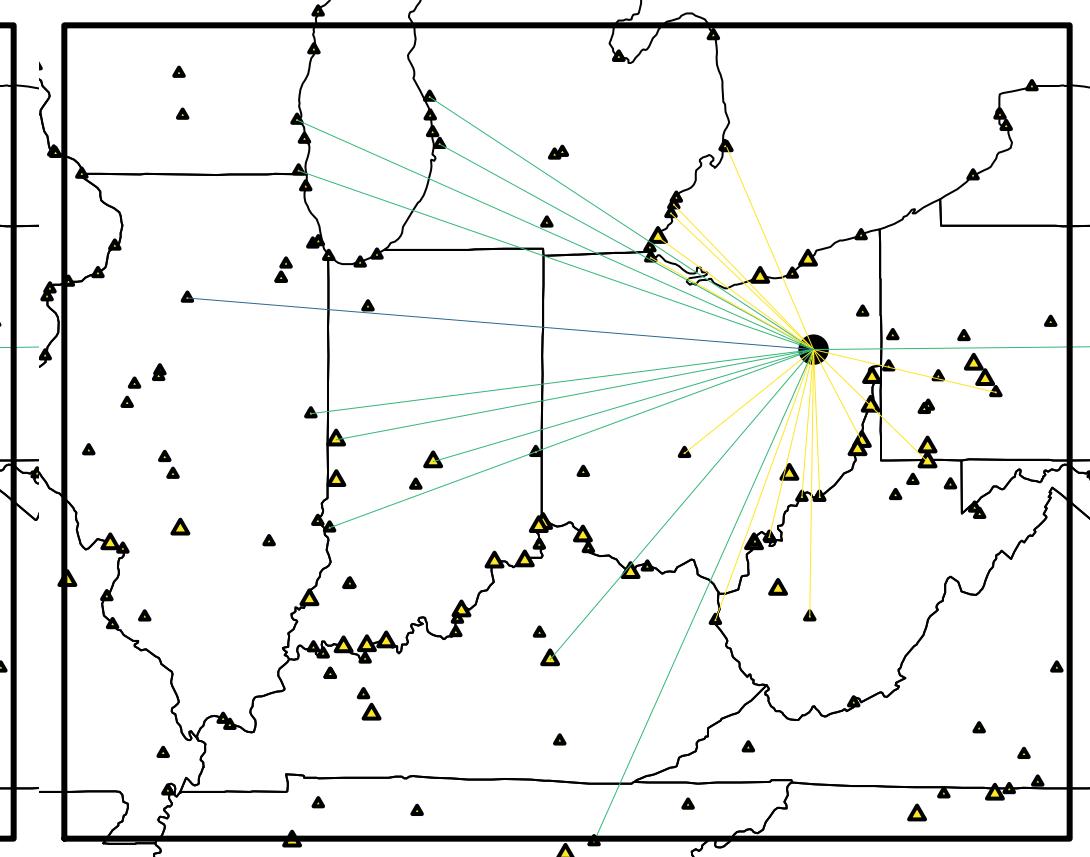
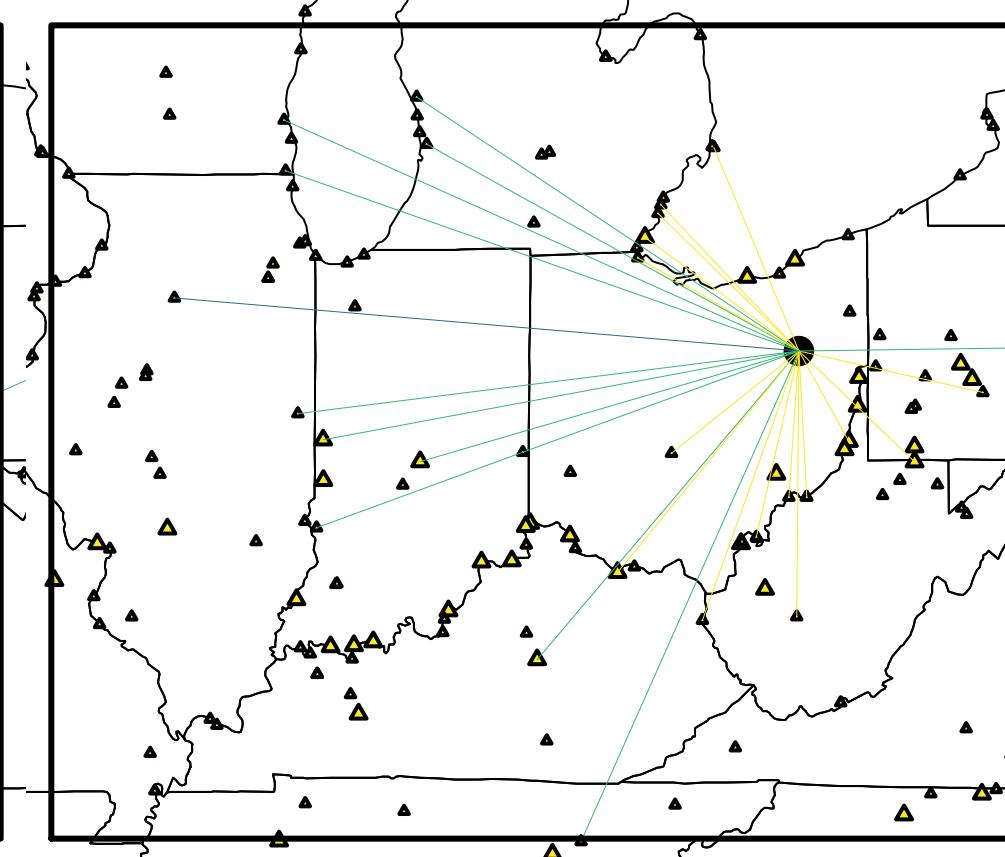
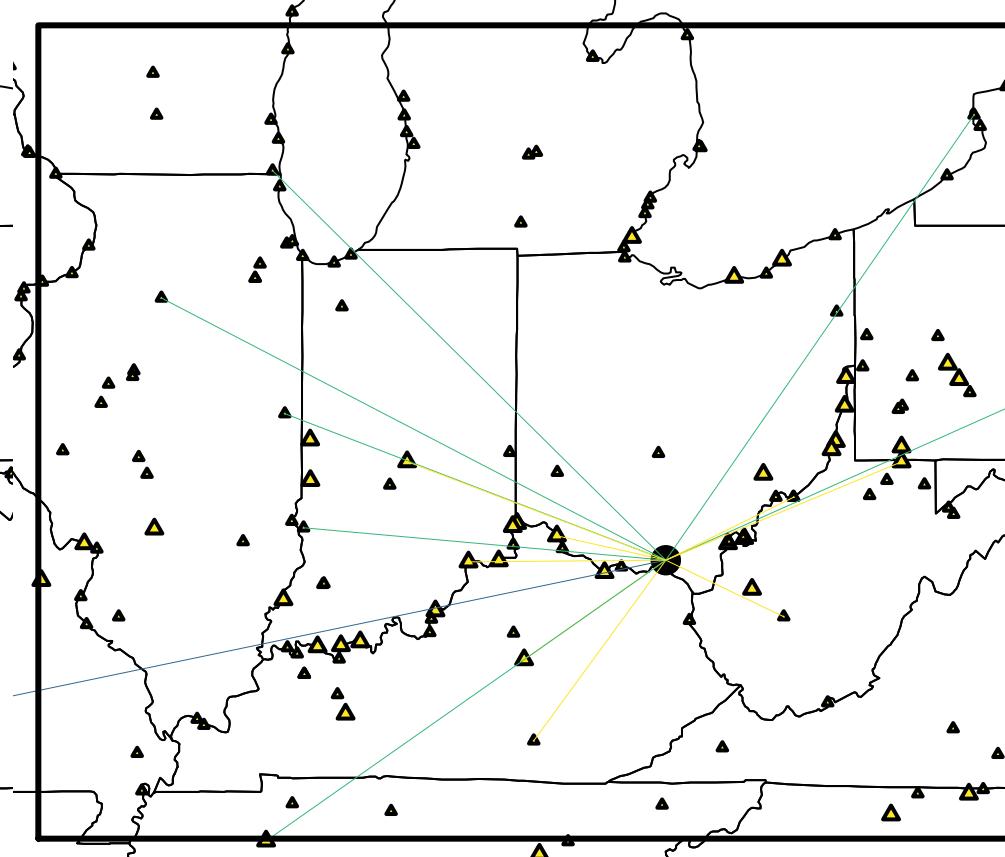
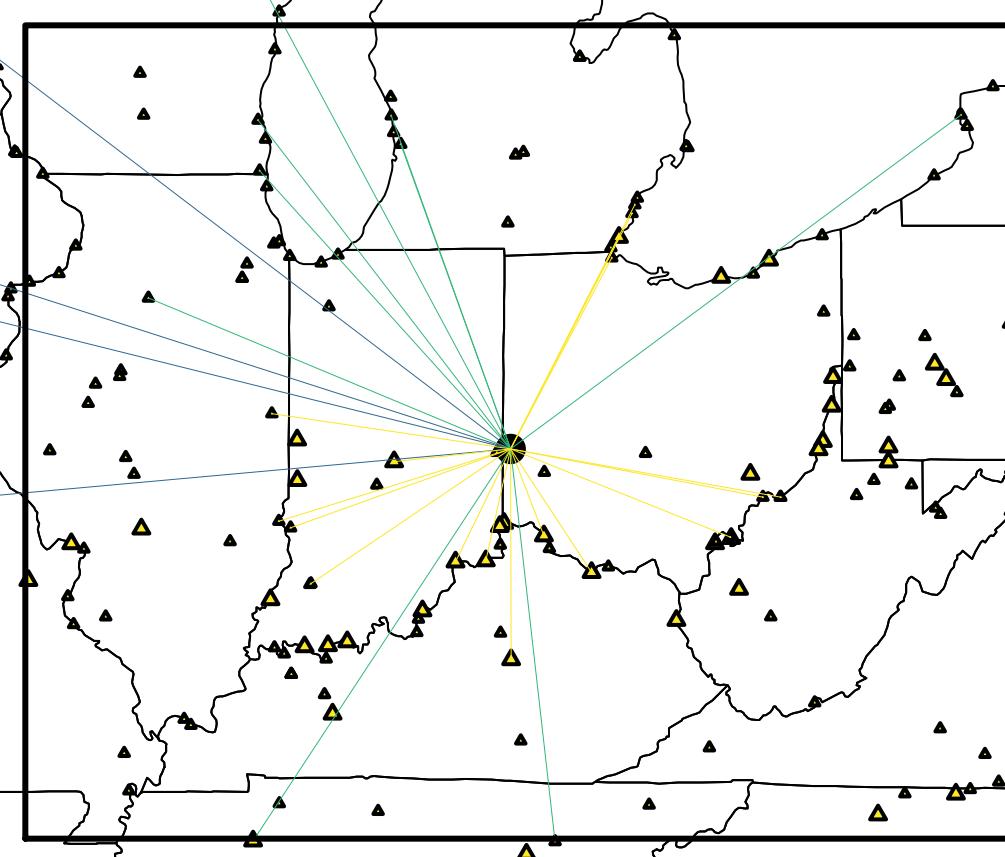


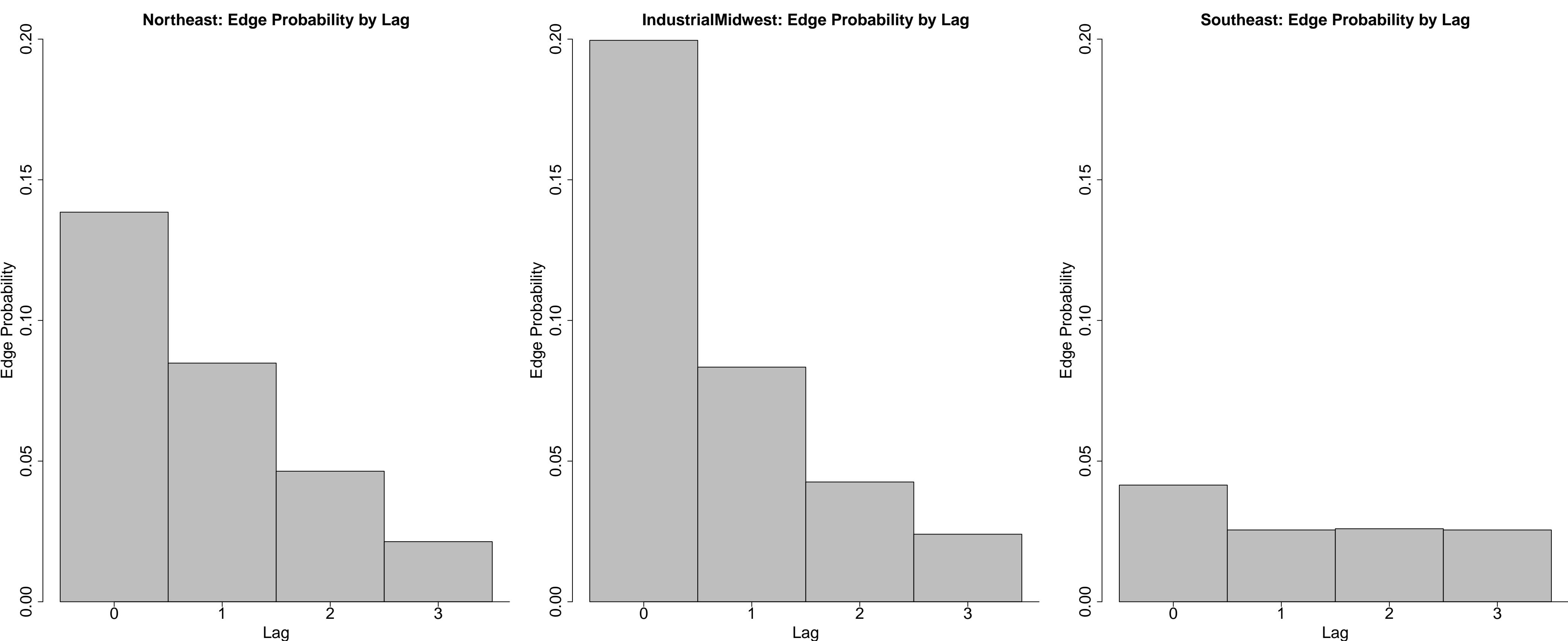




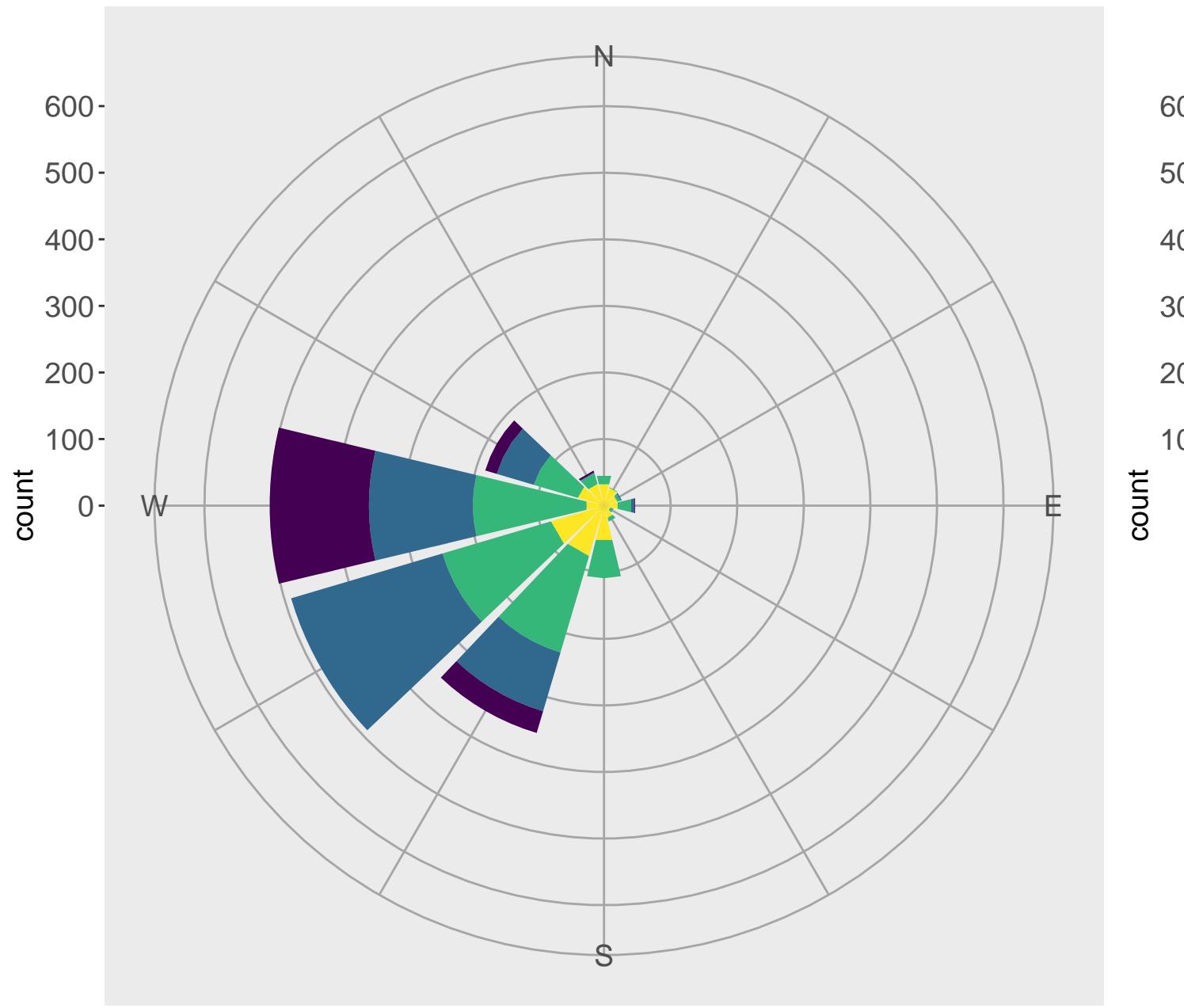




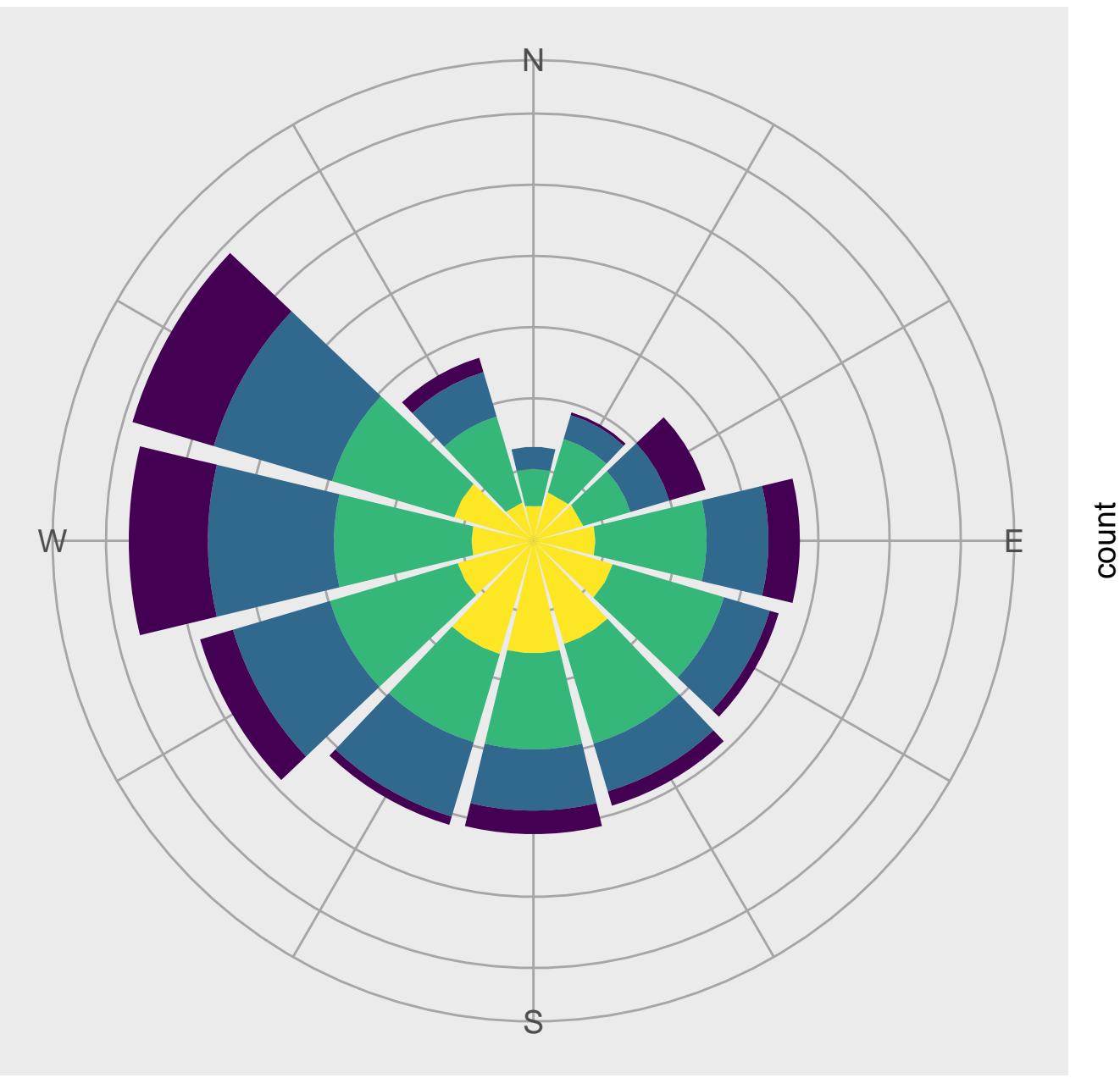




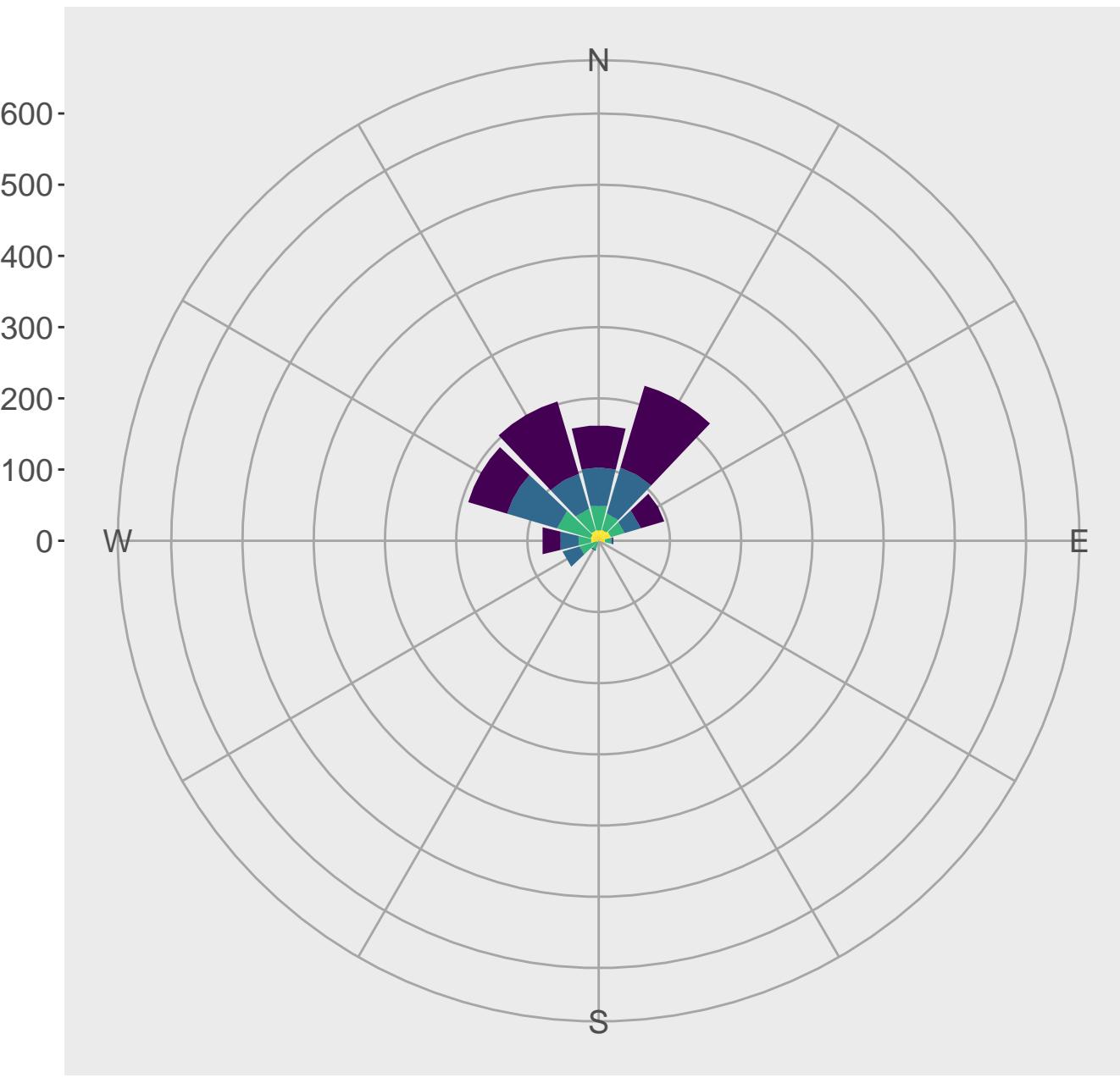
Edge counts by distance/direction to source
Northeast receptors



Edge counts by distance/direction to source
IndustrialMidwest receptors



Edge counts by distance/direction to source
Southeast receptors



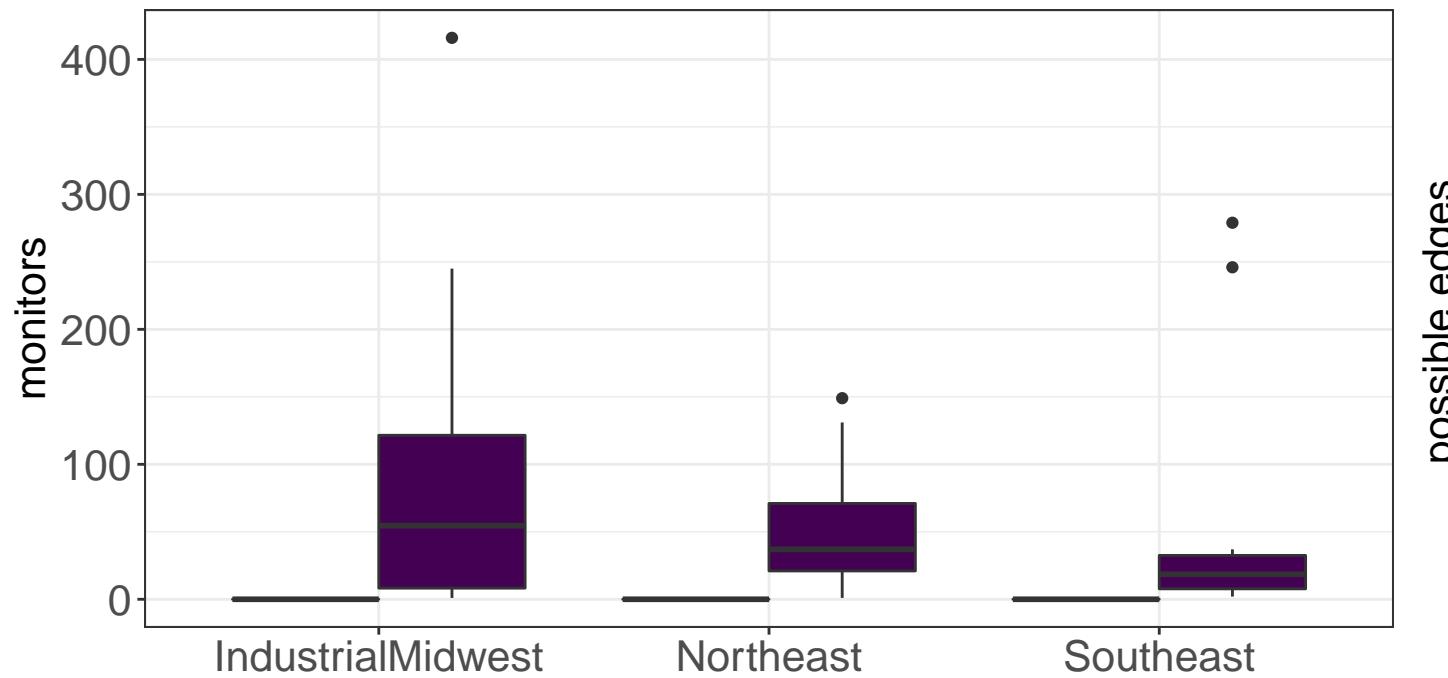
Distance to Source (km) 750–1000 500–750 250–500 0–250

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

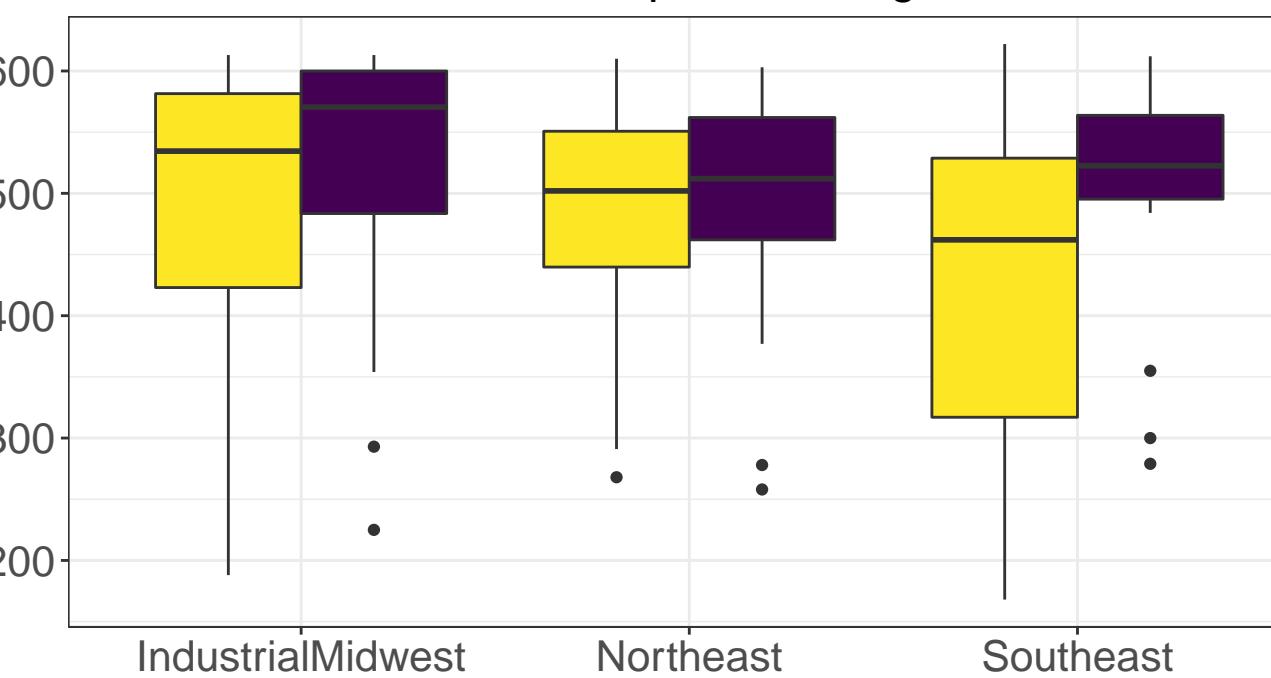
Distance to Source (km) 750–1000 500–750 250–500 0–250

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

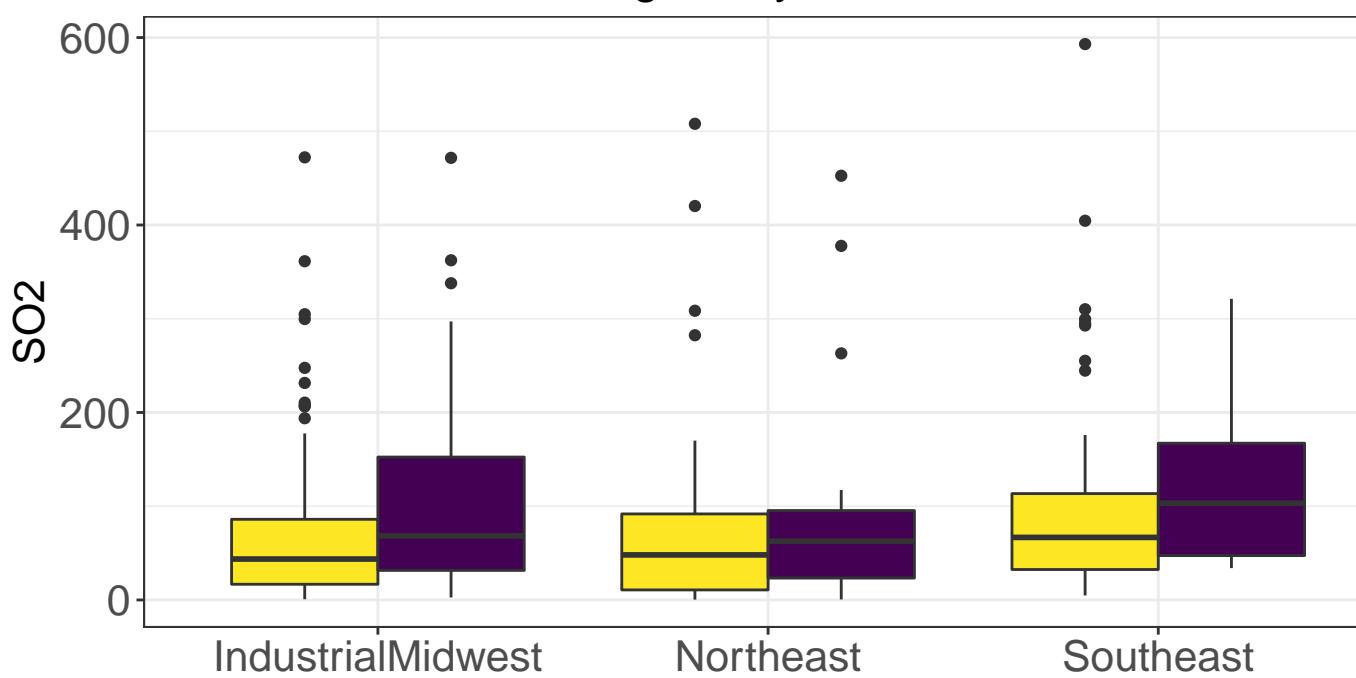
Number of linked monitors



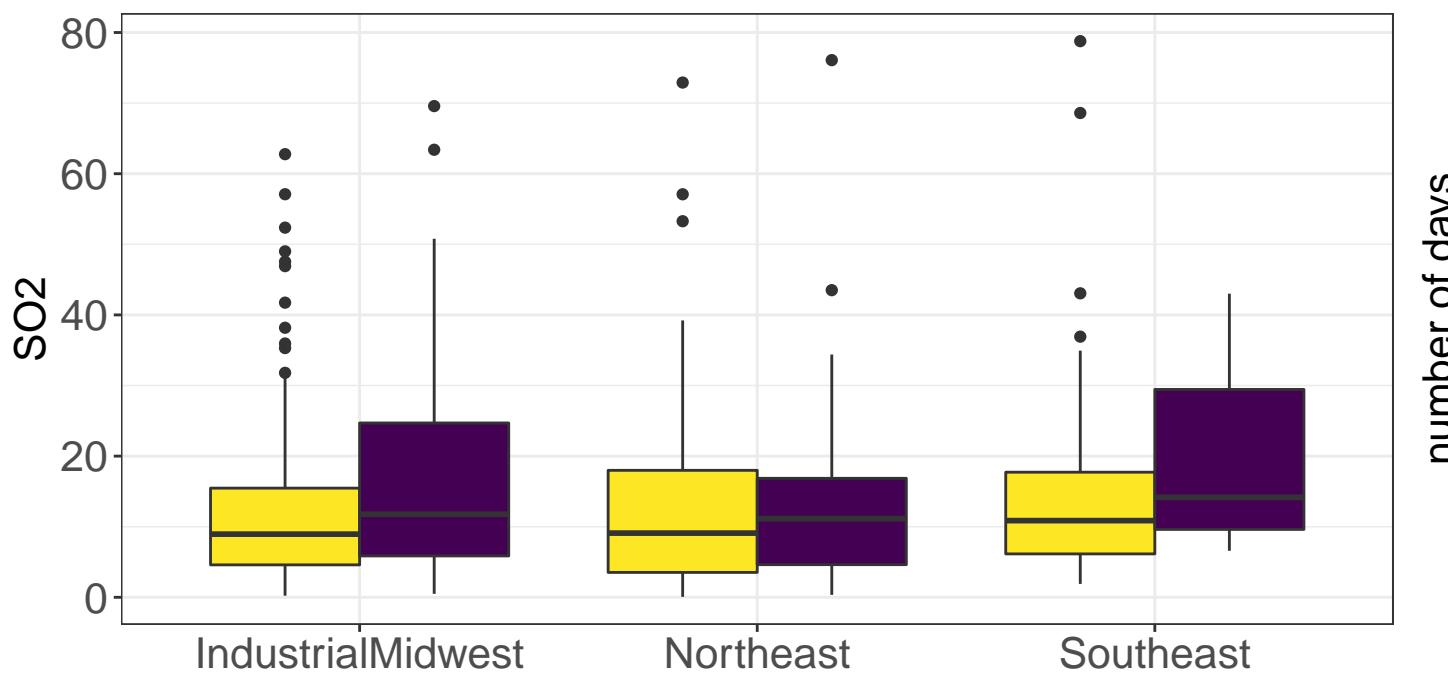
Number of possible edges



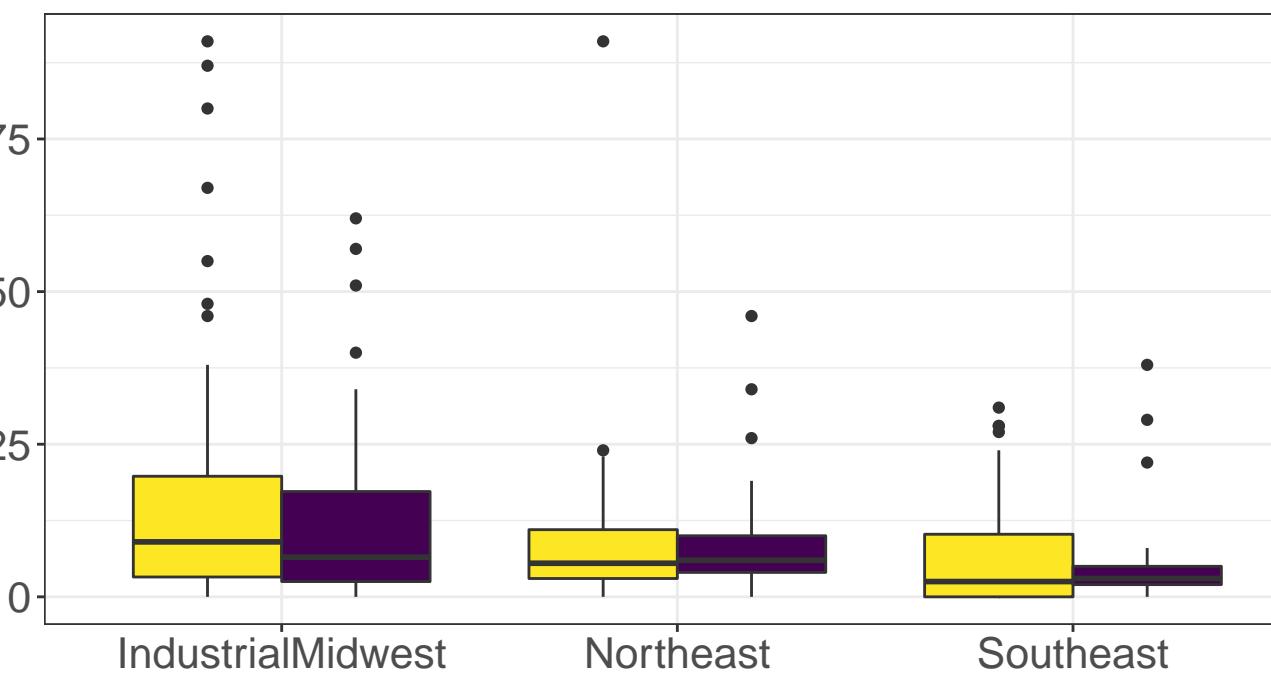
Average daily emissions



Standard deviation in daily emissions



Number of days (out of 91 total) with missing emissions data

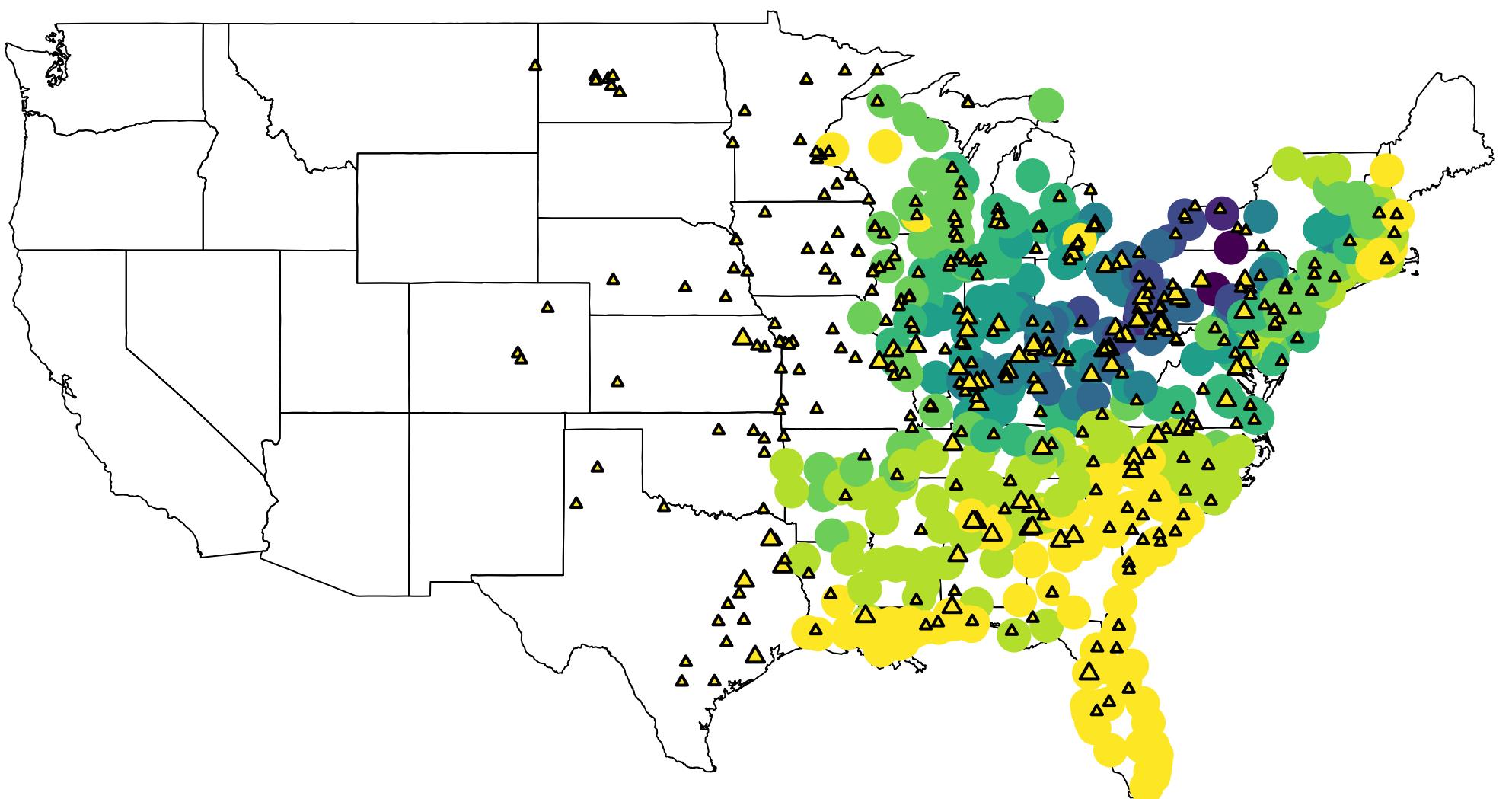


Powerplants

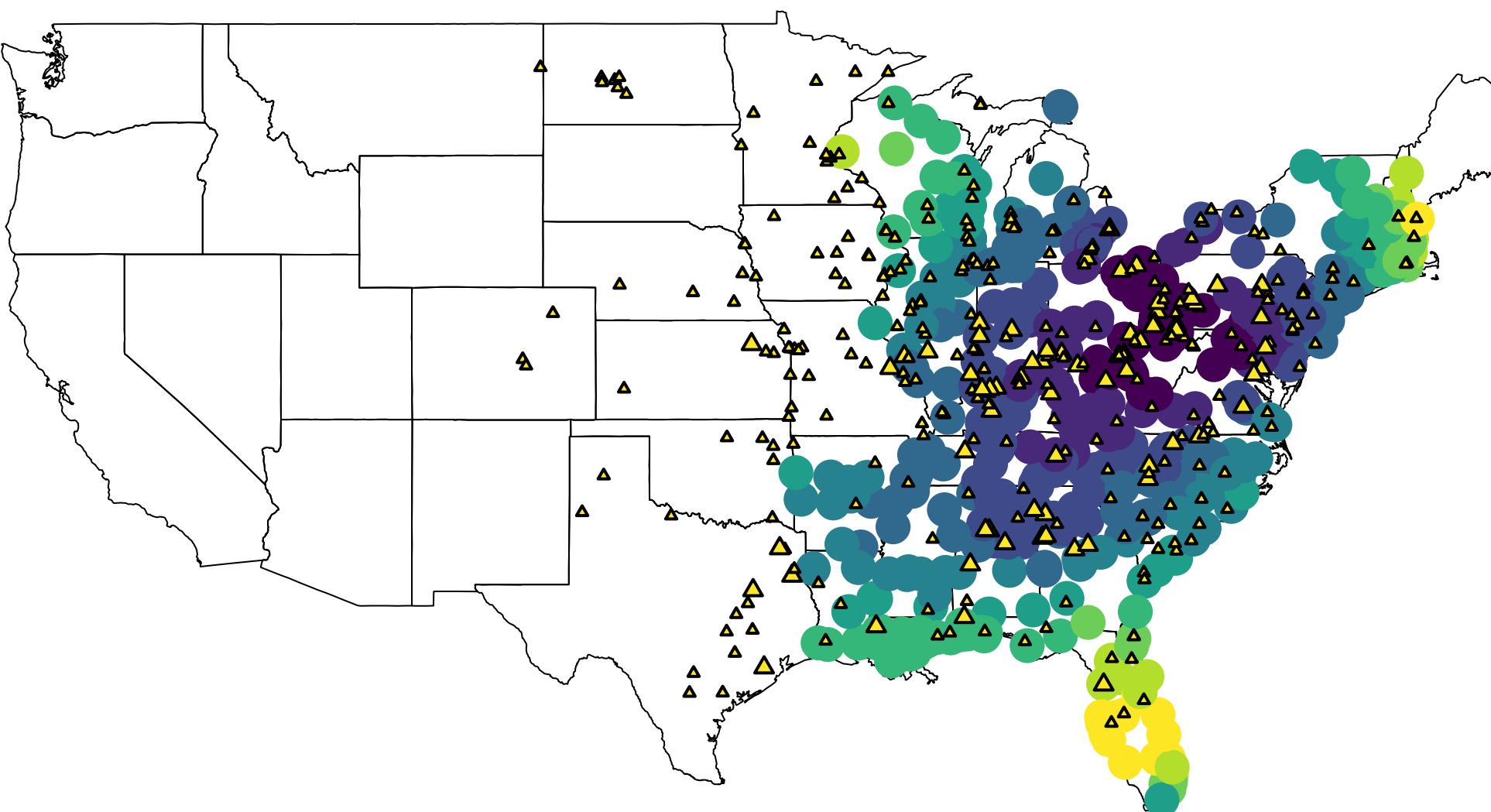
without edges

with edges

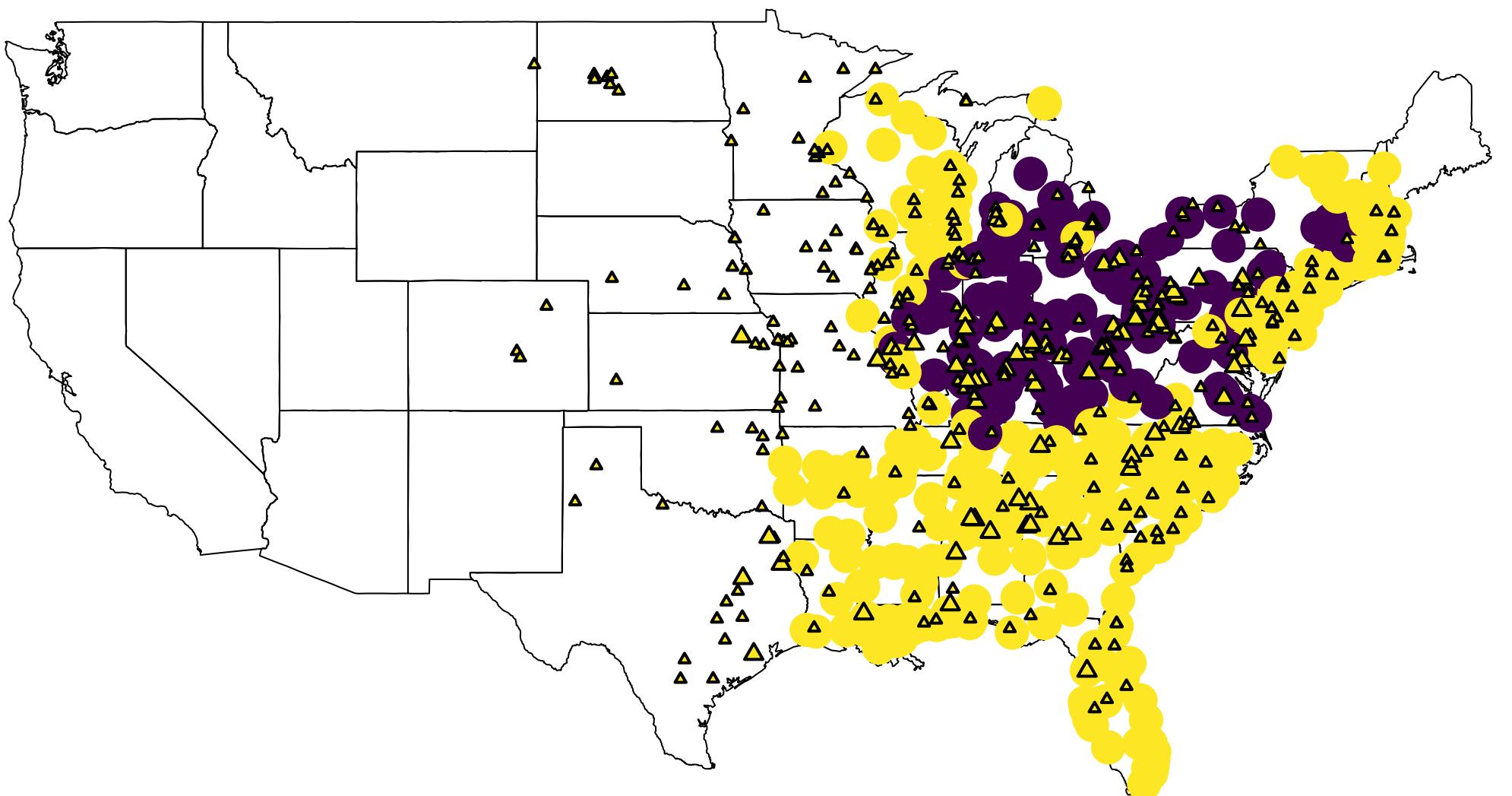
Monitor exposure: sum of gams.coeff, summer 2005



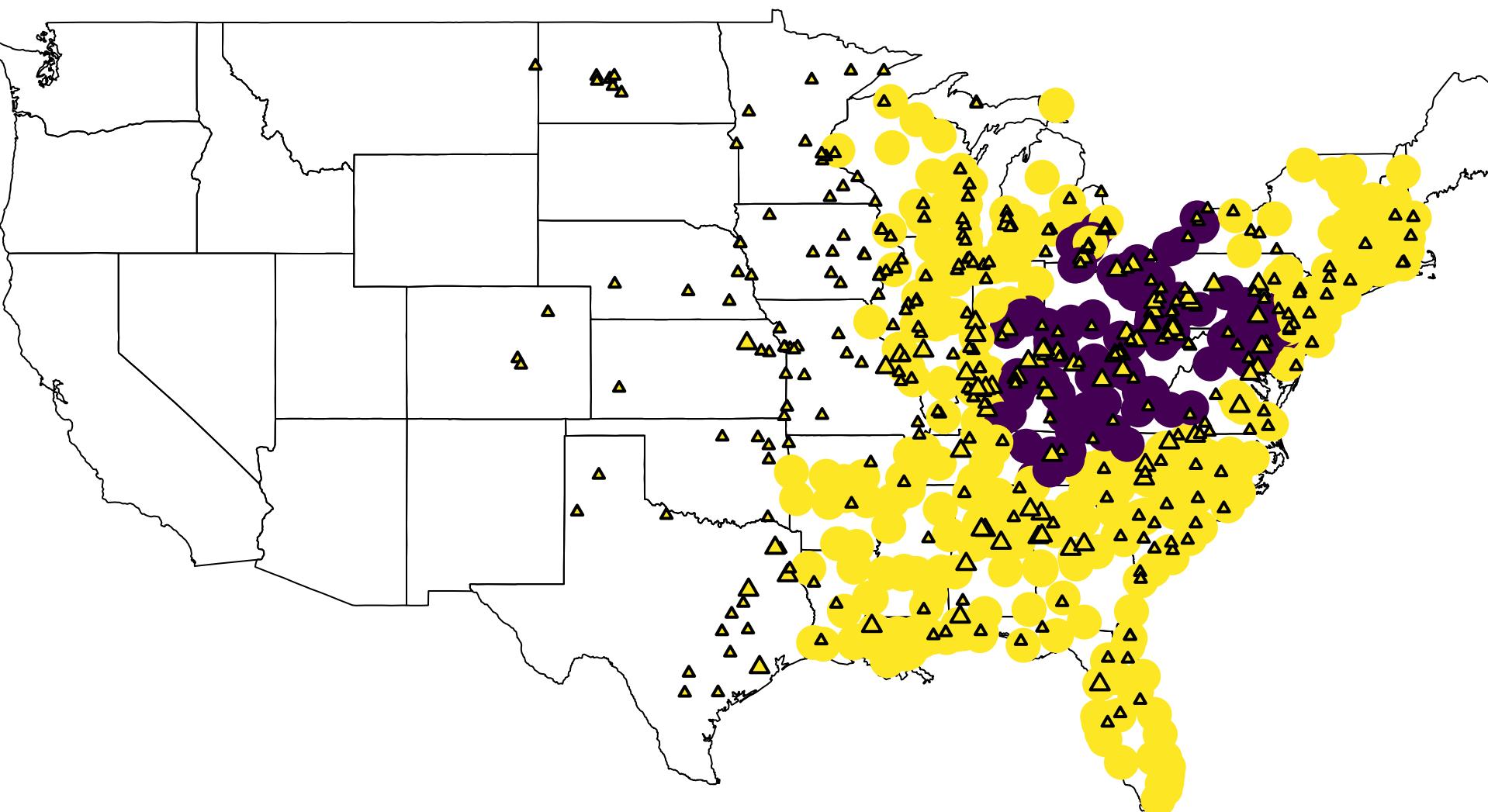
Monitor exposure: avgPM, decomposed75 summer 2005



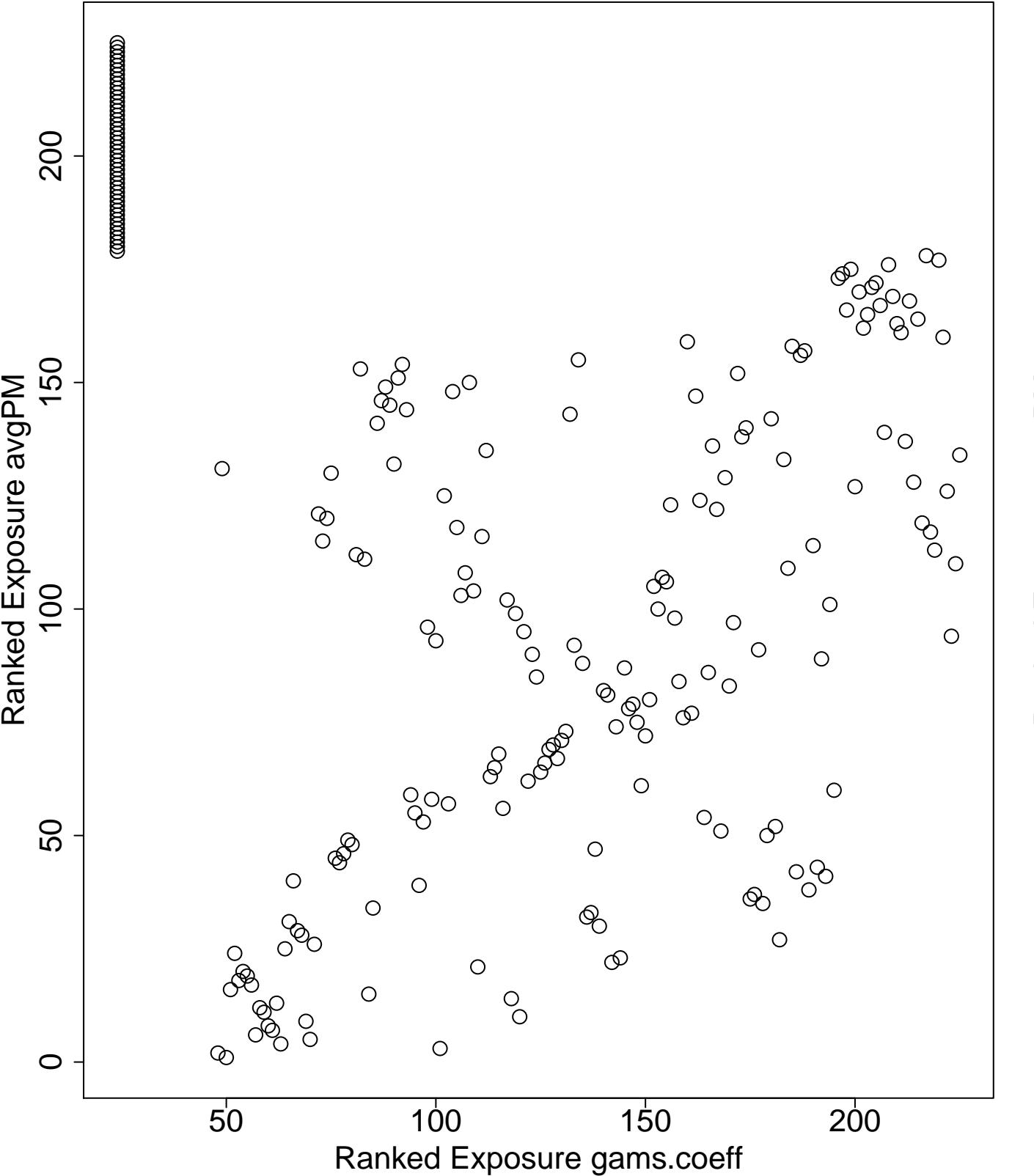
Highest exposed: sum of gams.coeff, summer 2005



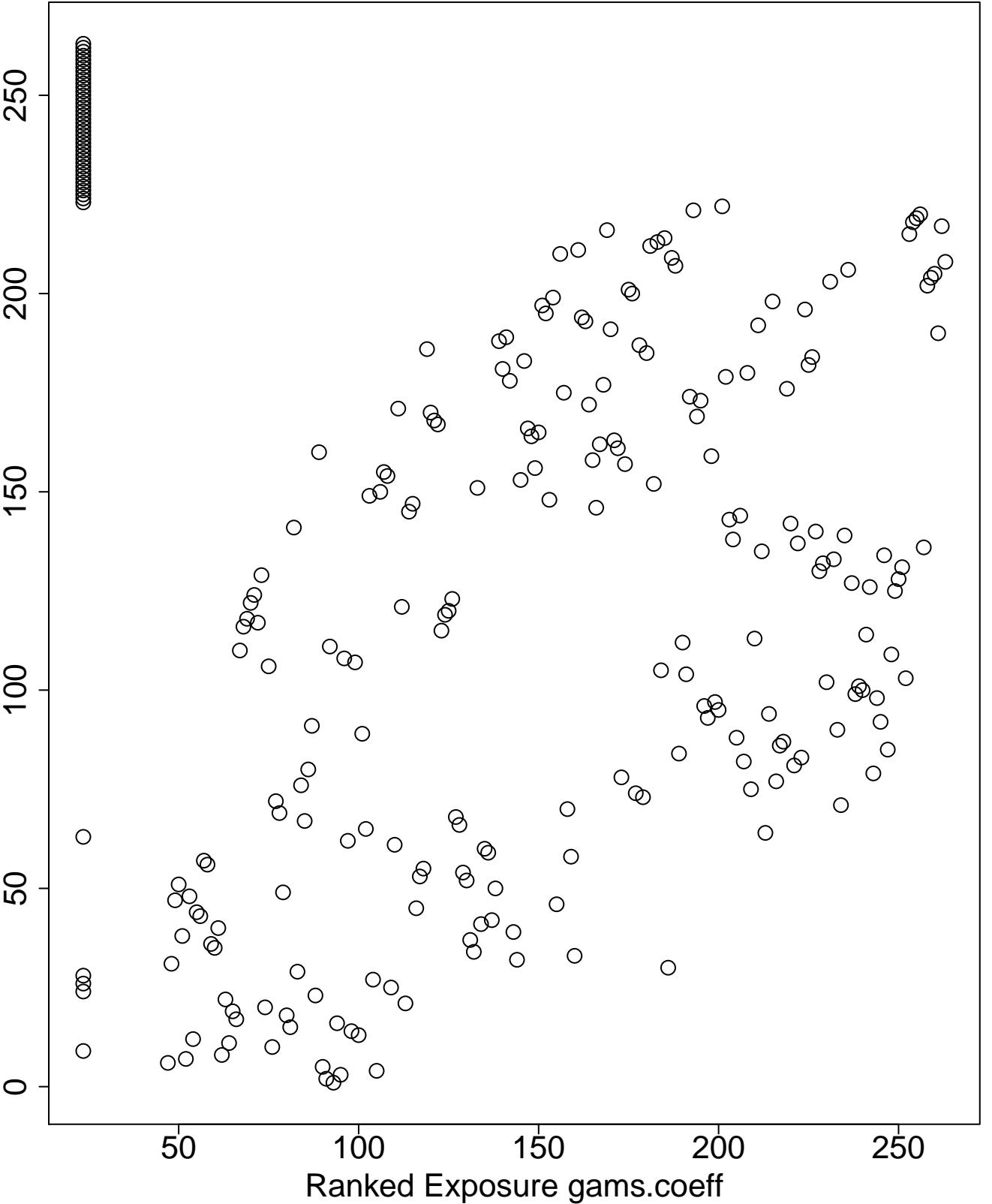
Highest exposed: avgPM, decomposed75 summer 2005



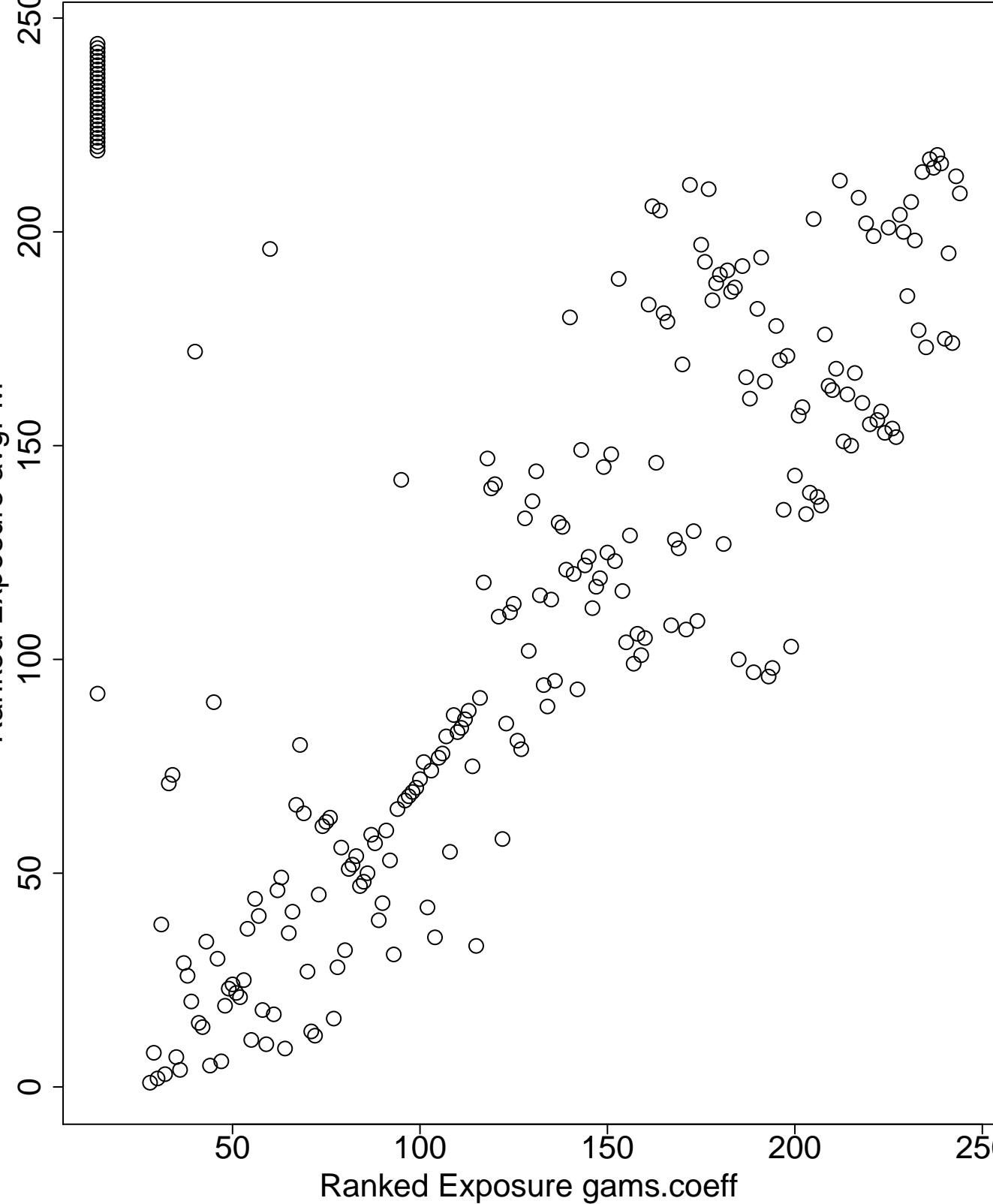
Northeast correlation = 0.55



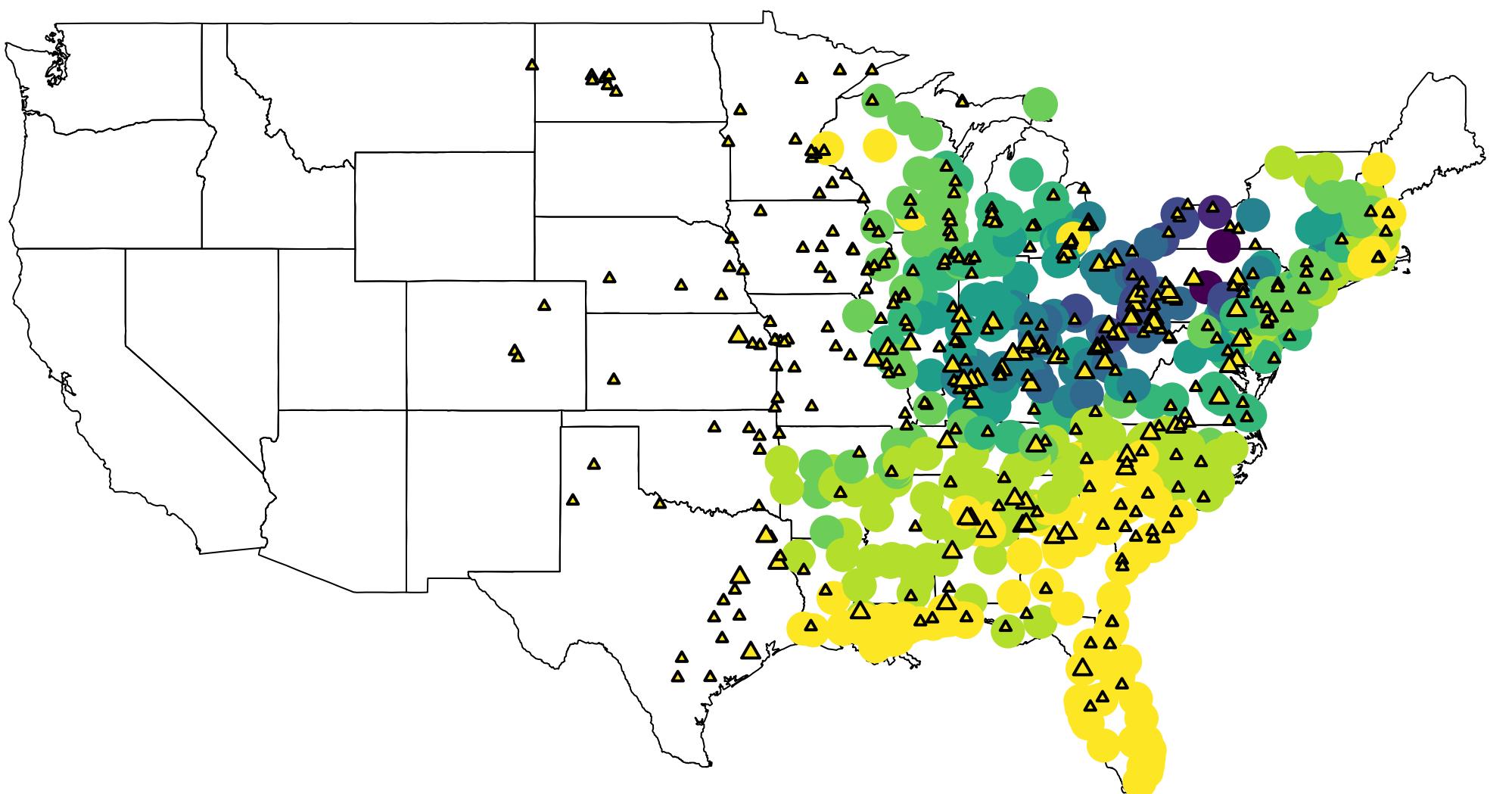
Southeast correlation = 0.53



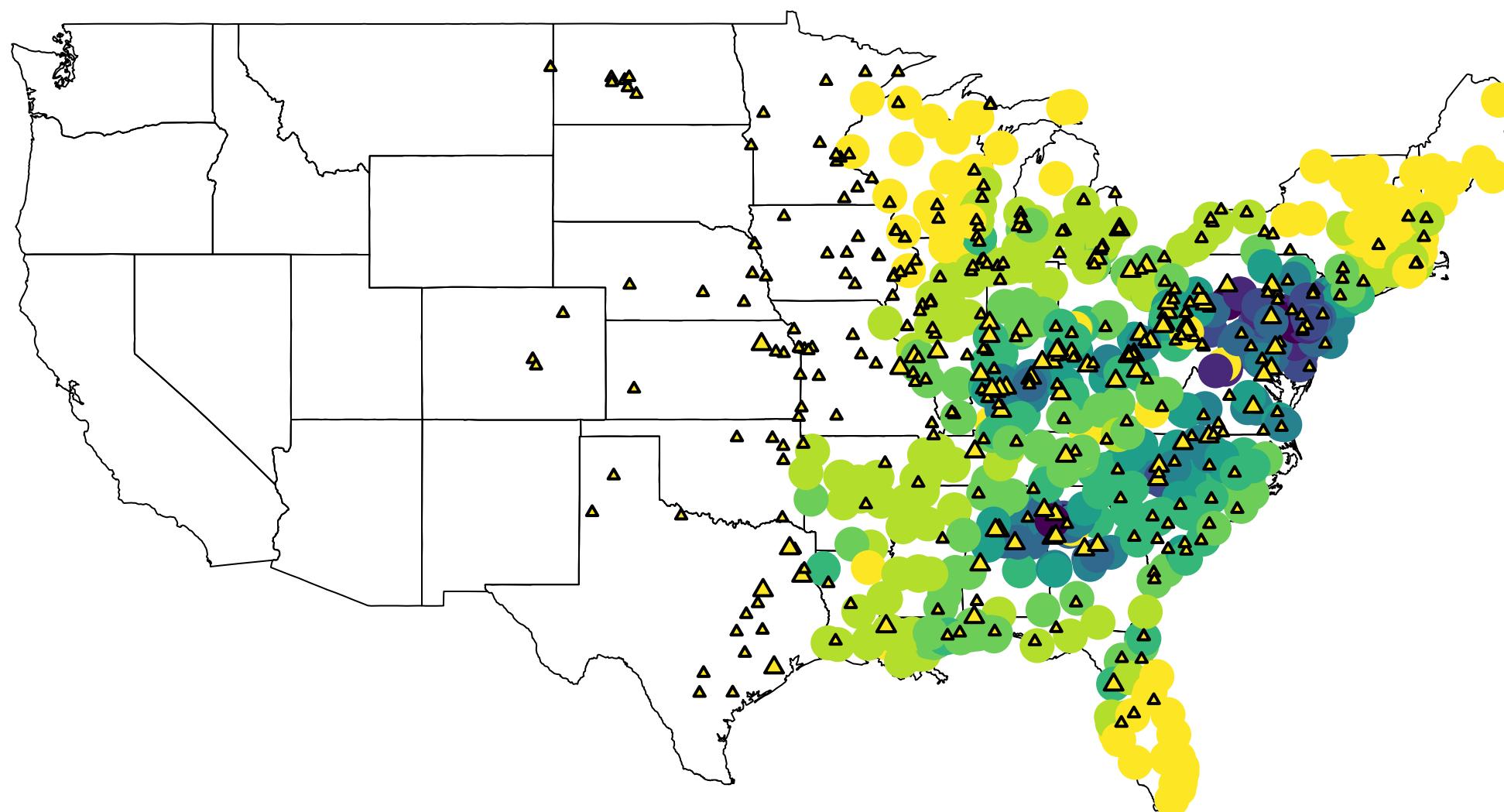
IndustrialMidwest correlation = 0.87



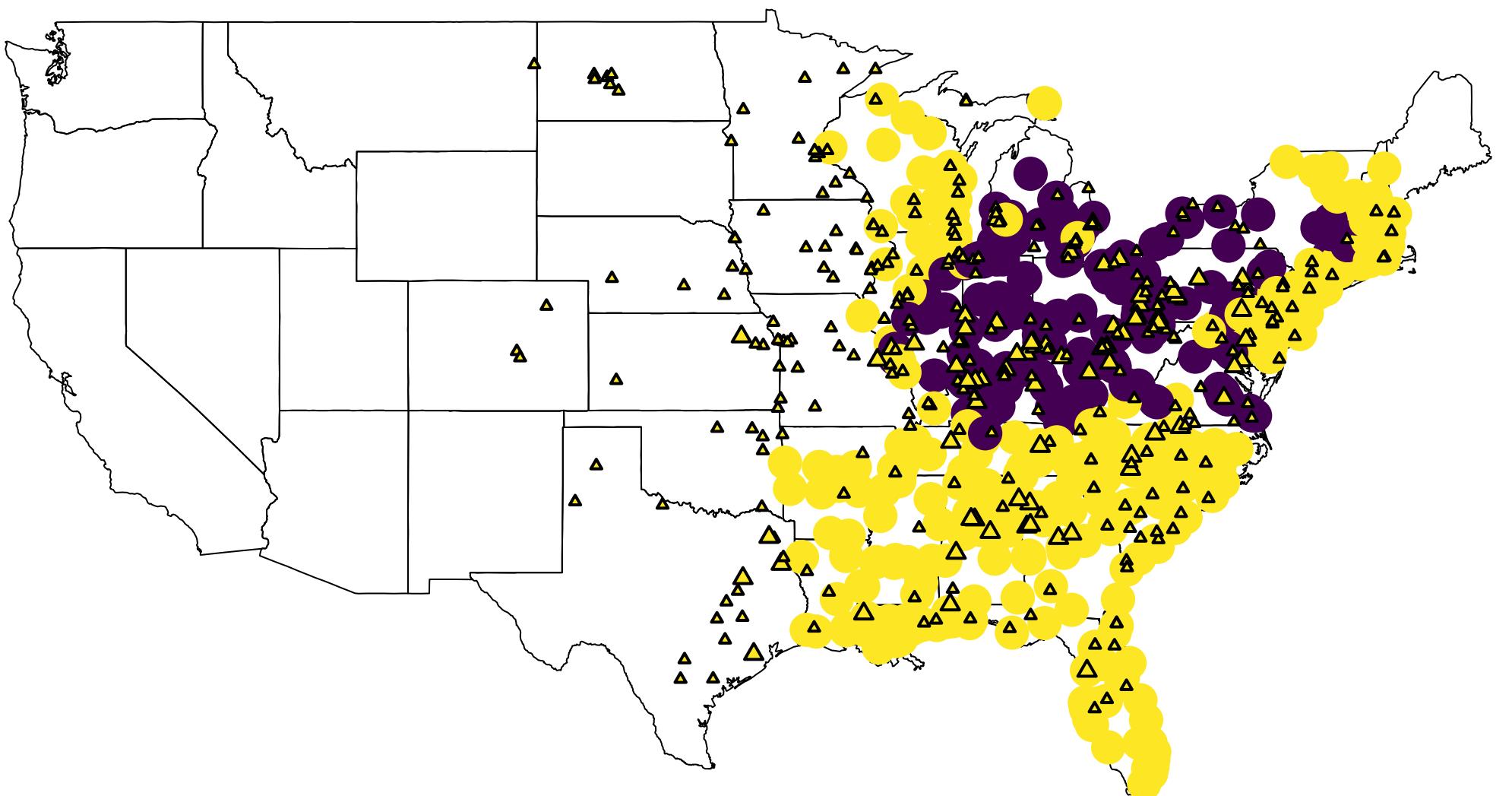
Monitor exposure: sum of gams.coeff, summer 2005



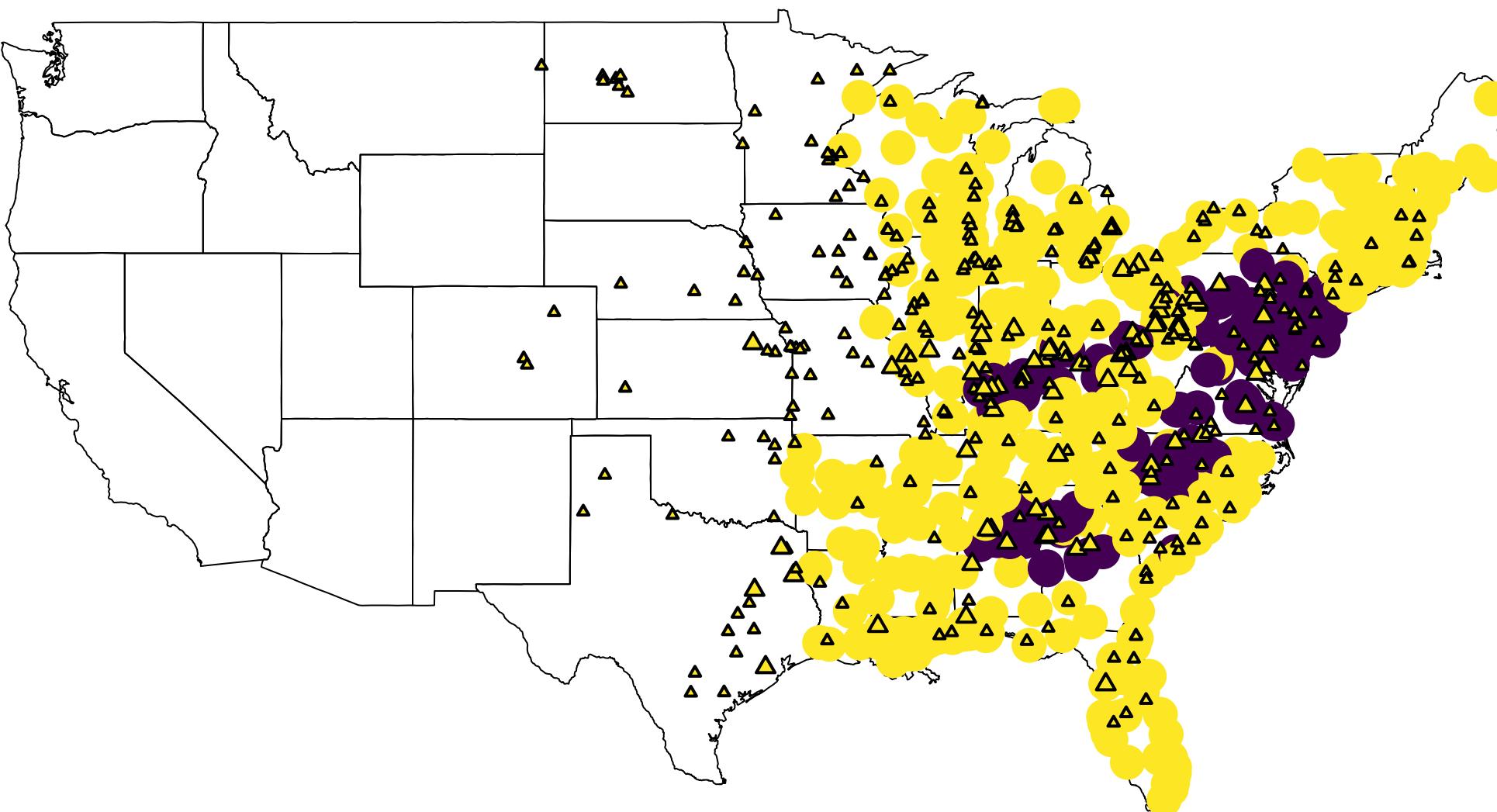
Monitor exposure: annual coal emissions (InMAP)

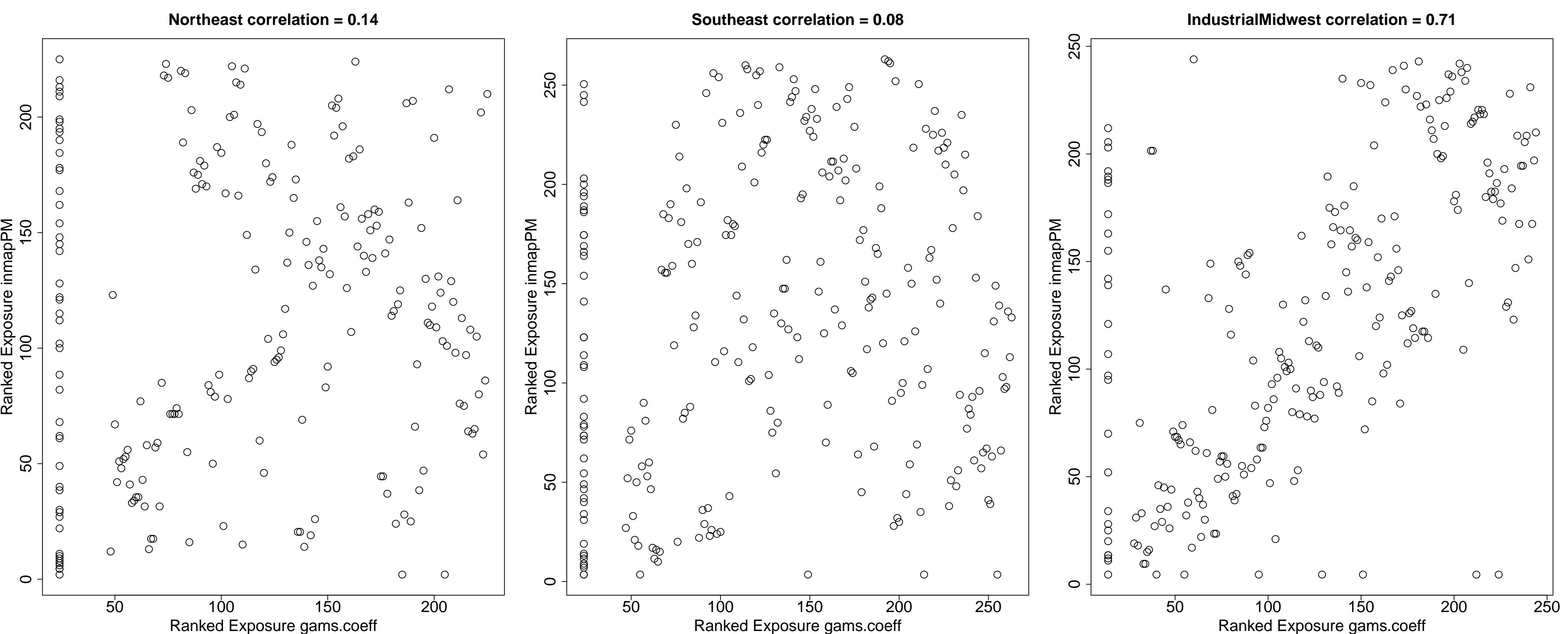


Highest exposed: sum of gams.coeff, summer 2005

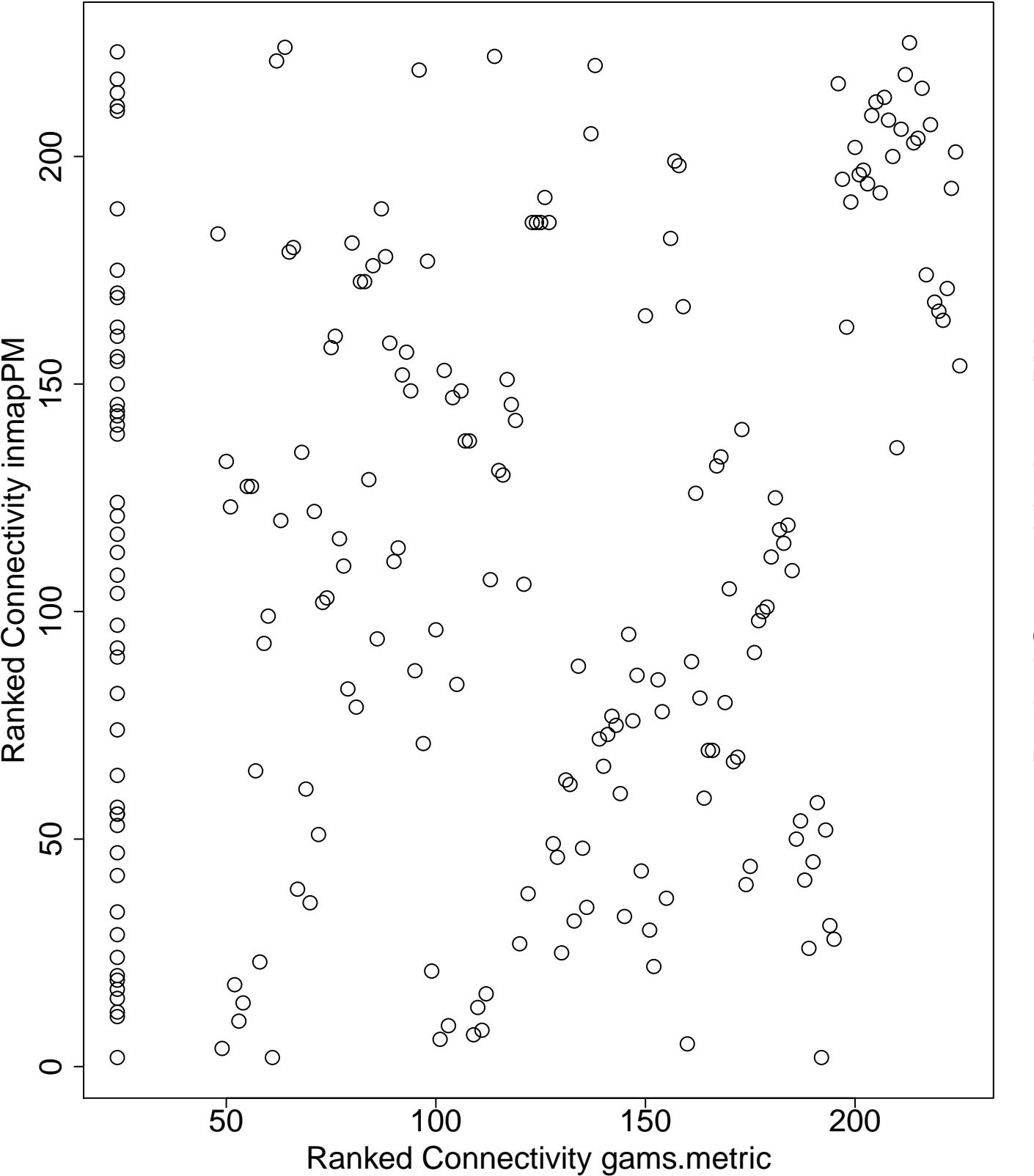


Highest exposed: annual coal emissions (InMAP)

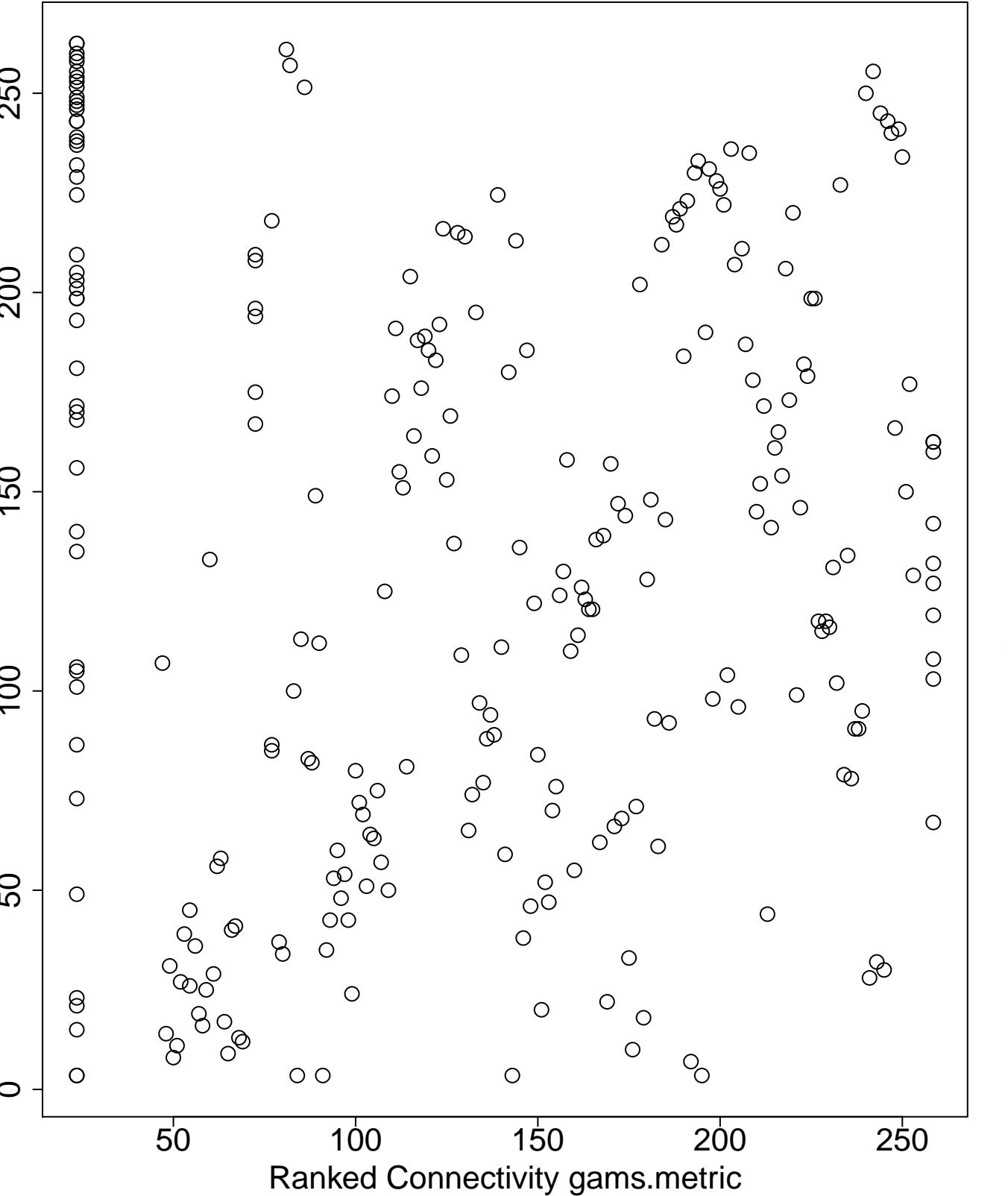




Northeast correlation = 0.18



Southeast correlation = 0.04



IndustrialMidwest correlation = 0.36

