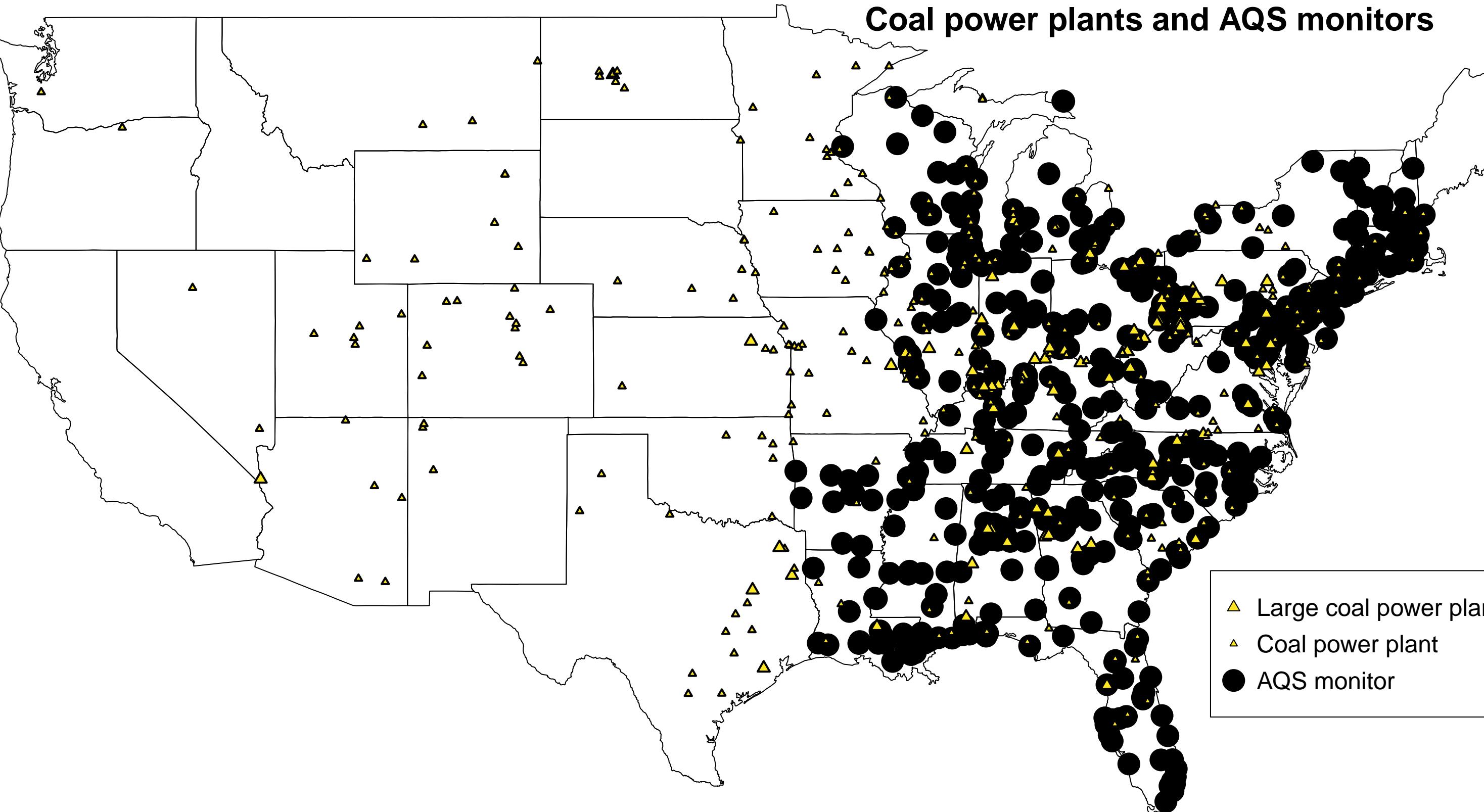
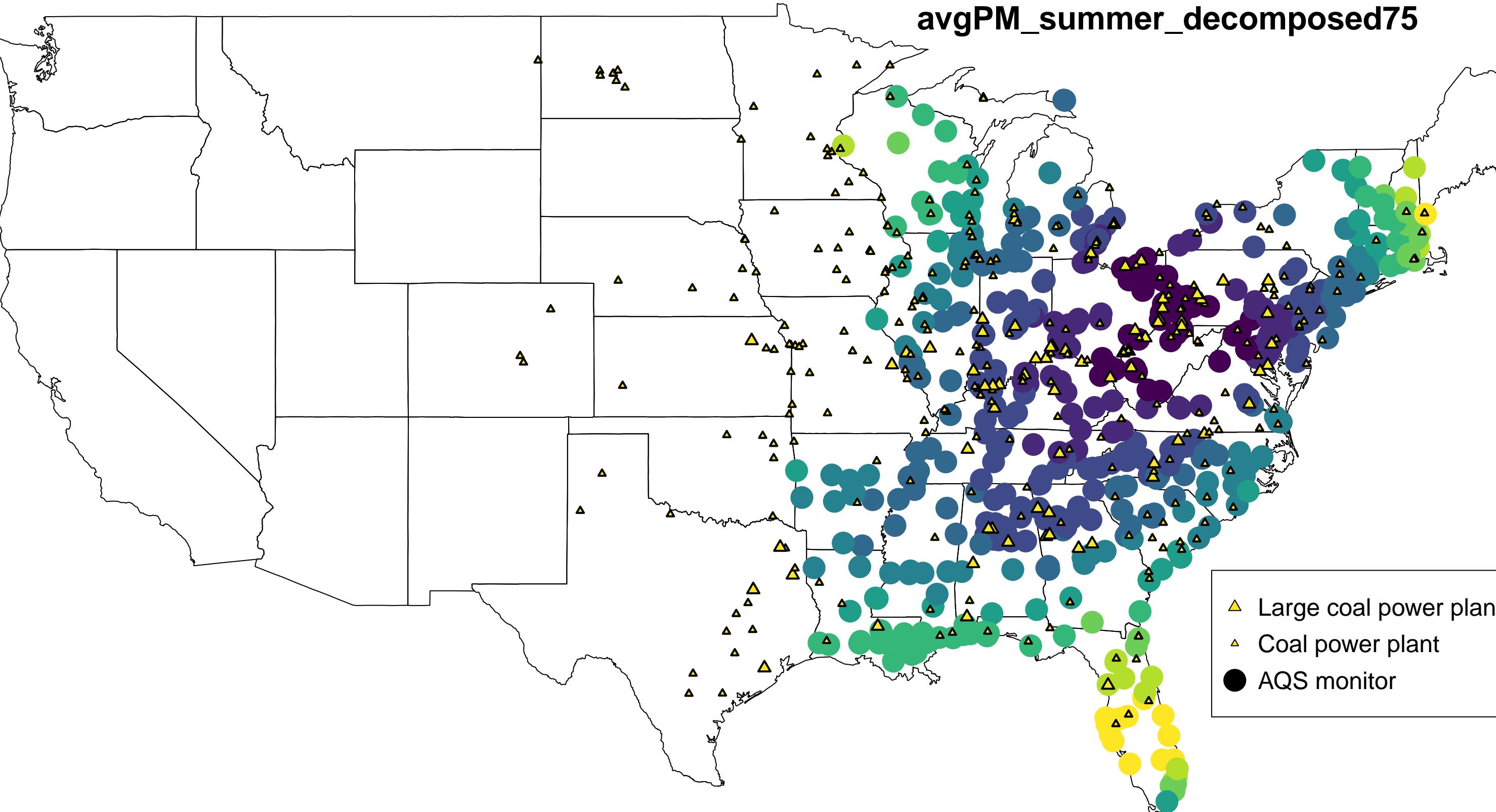


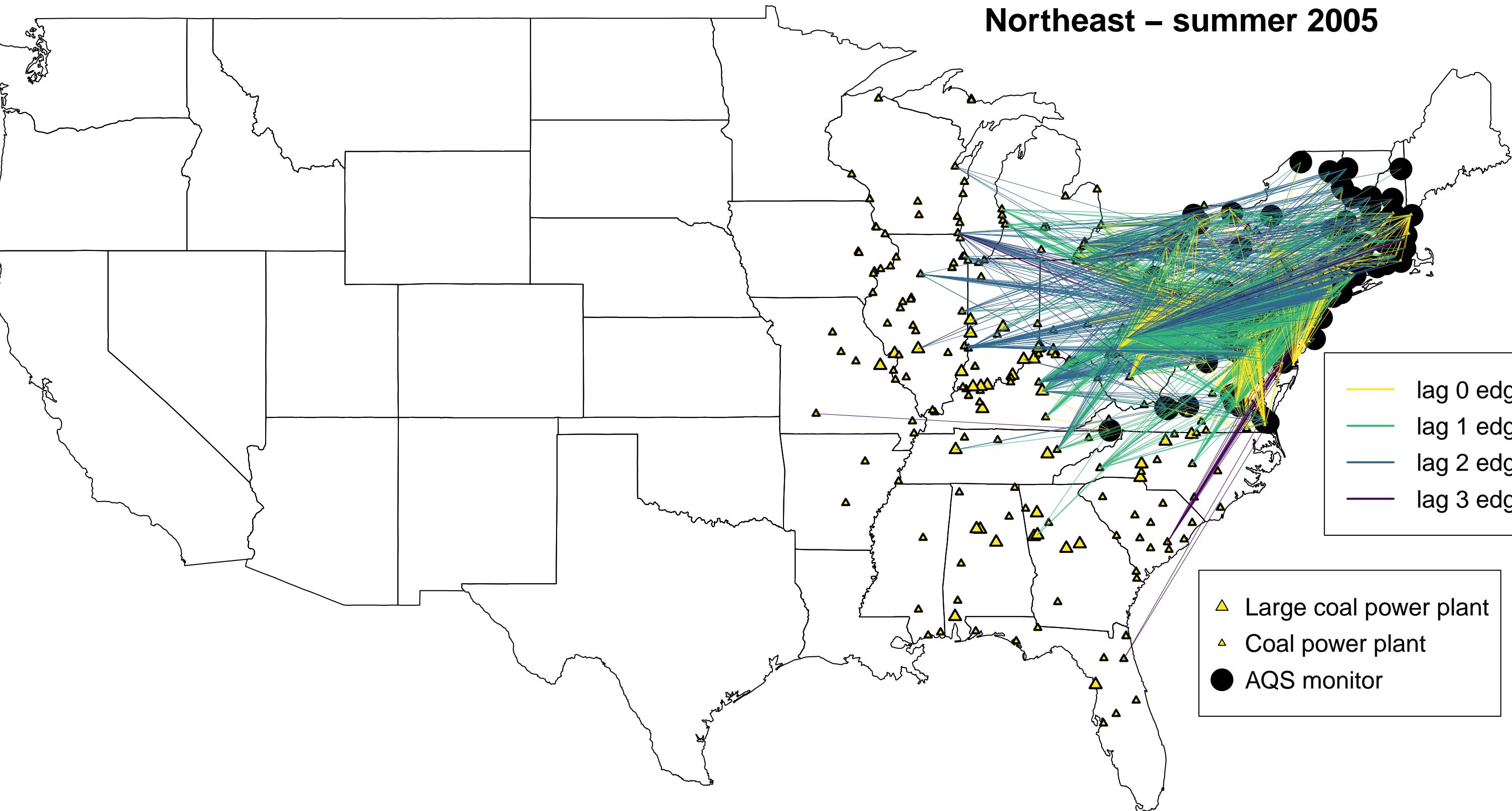
## Coal power plants and AQS monitors



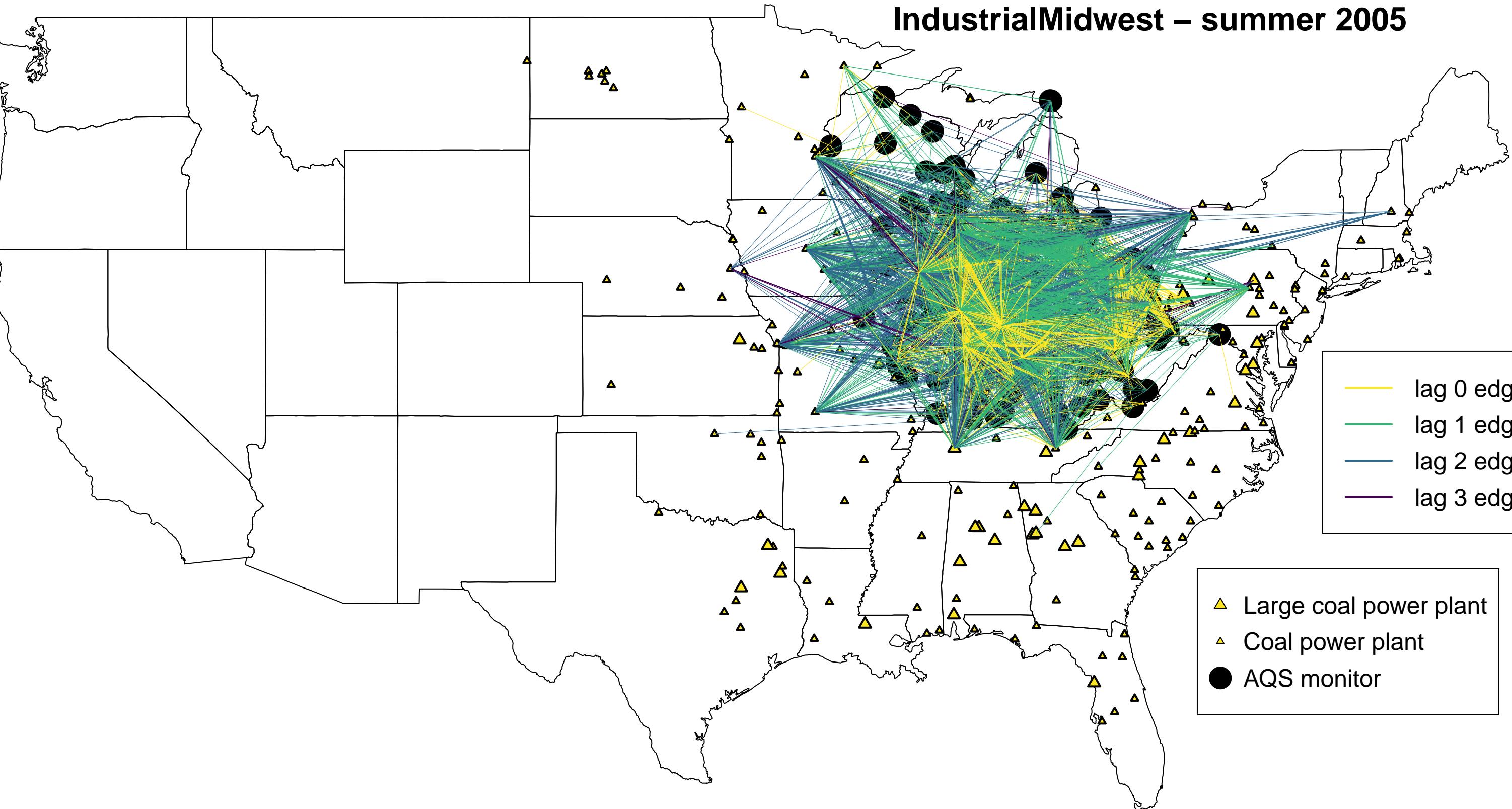
avgPM\_summer\_decomposed75



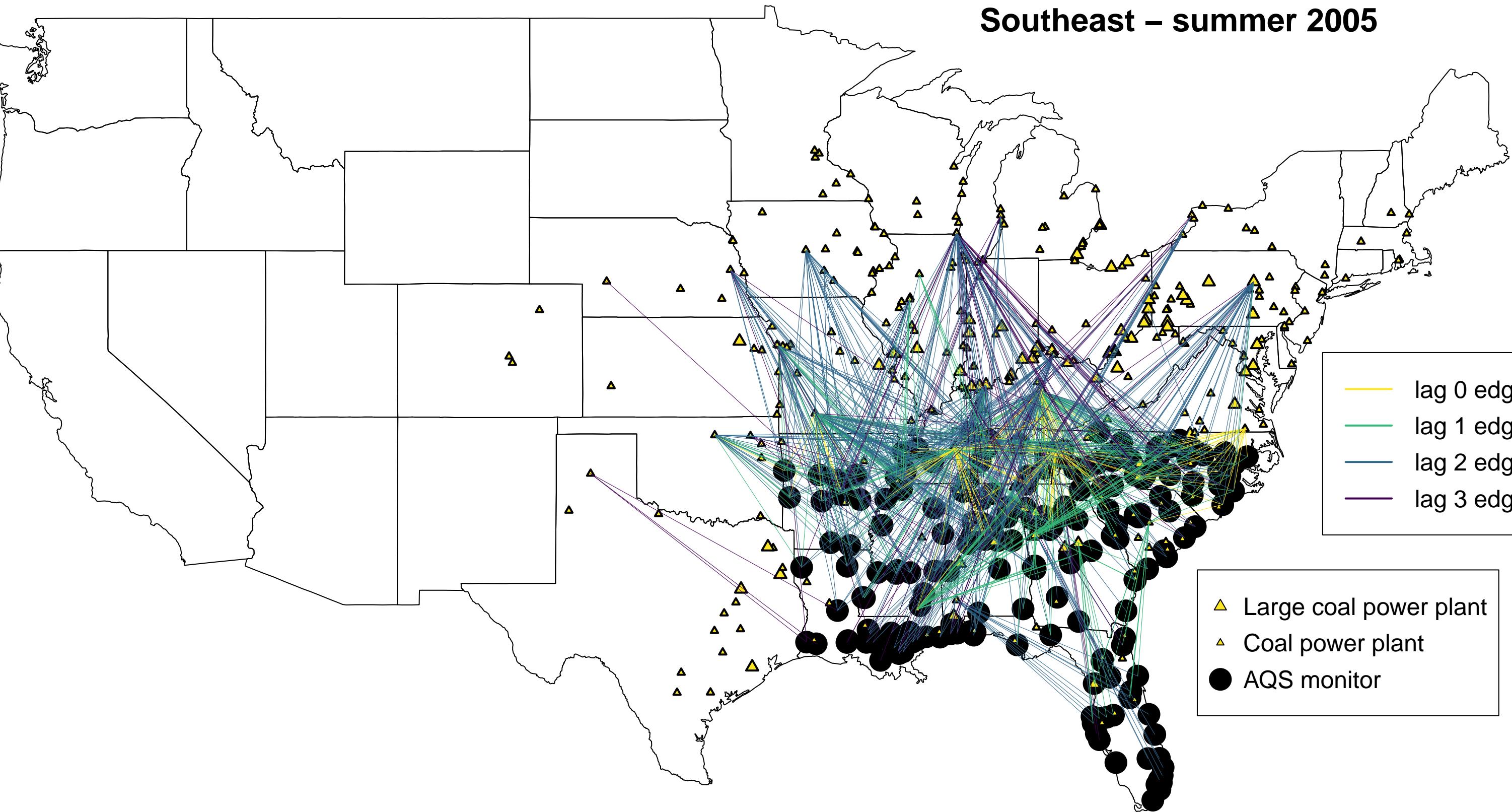
## Northeast – summer 2005



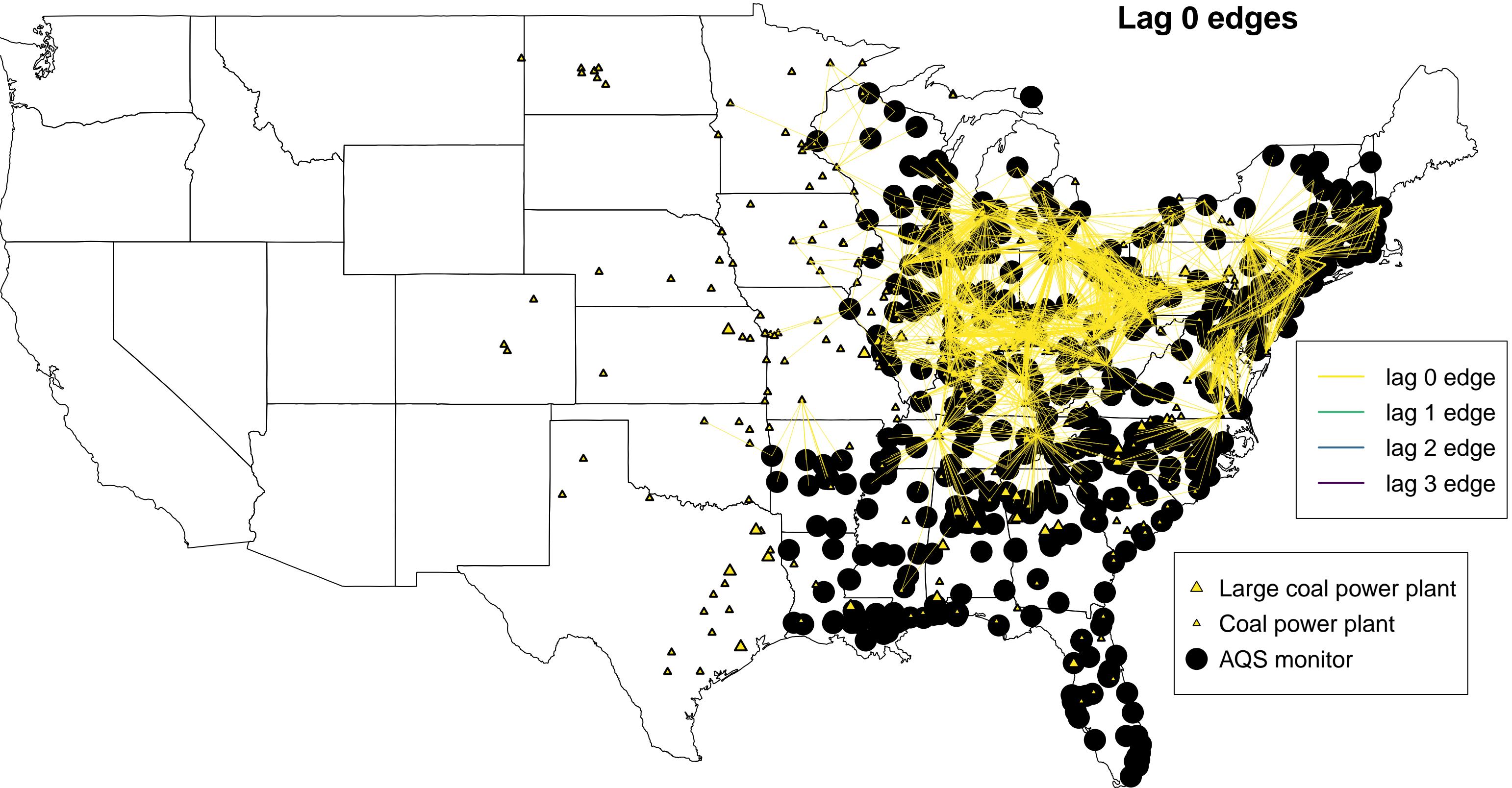
# IndustrialMidwest – summer 2005



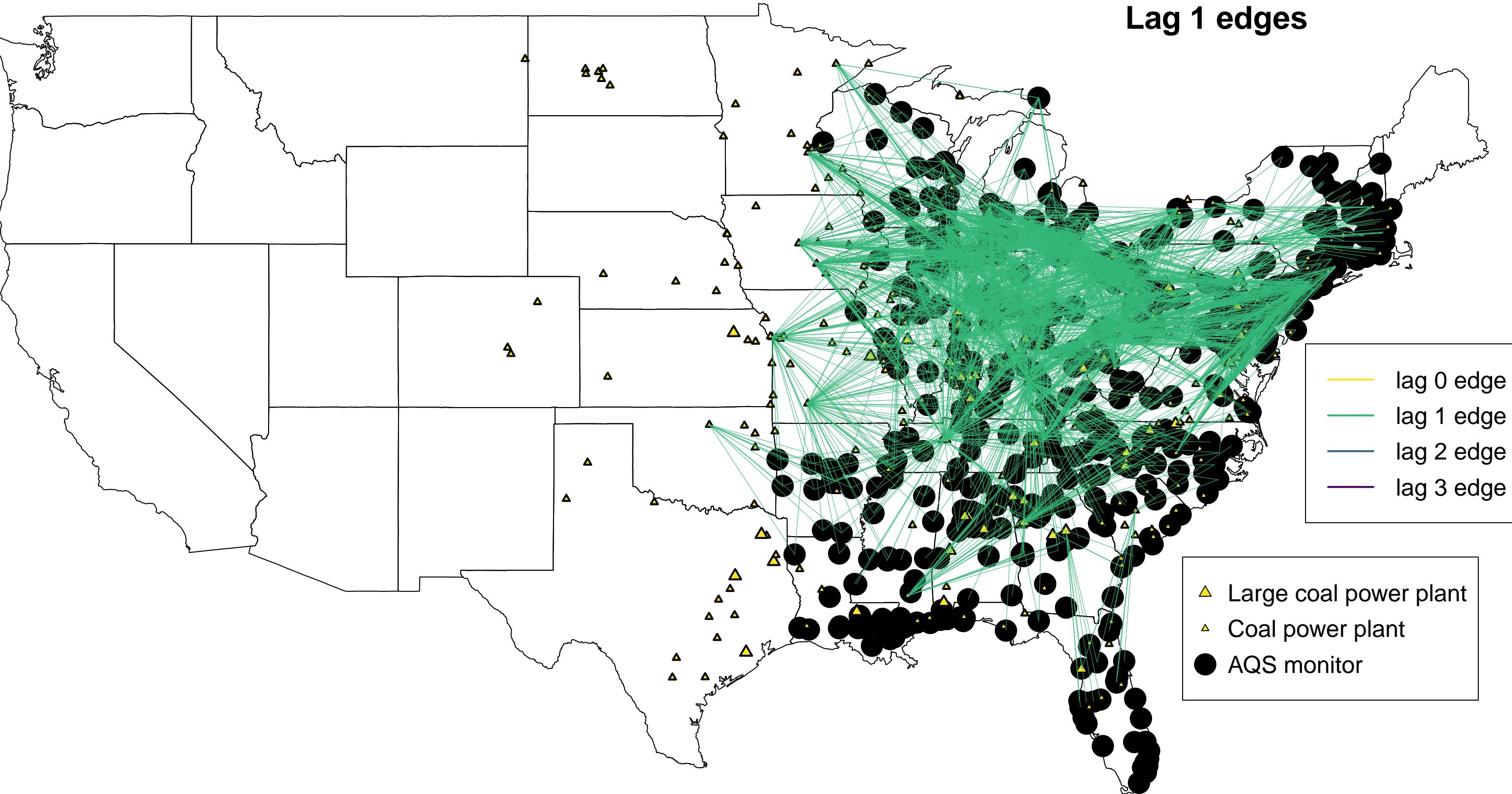
## Southeast – summer 2005



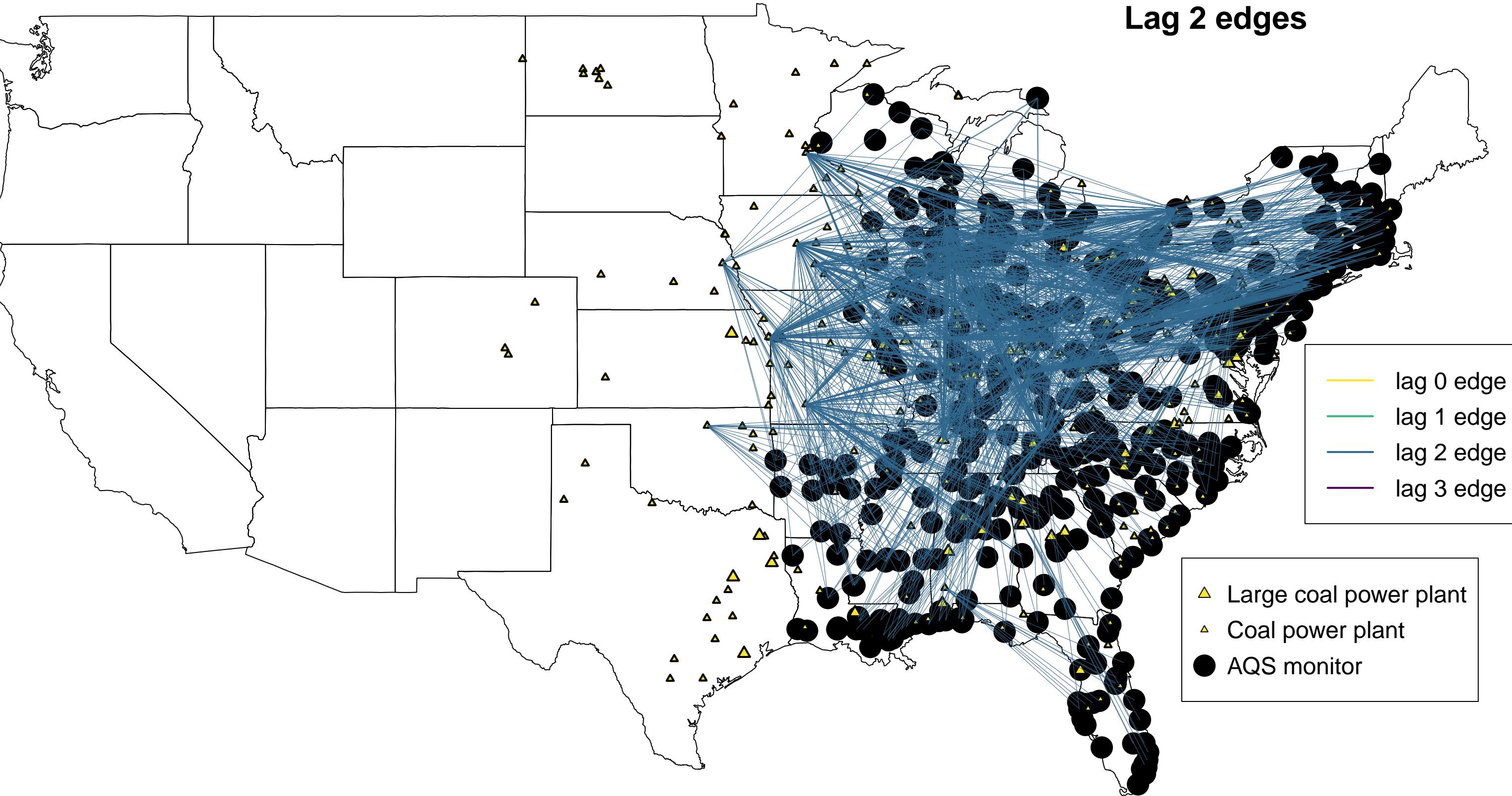
## Lag 0 edges



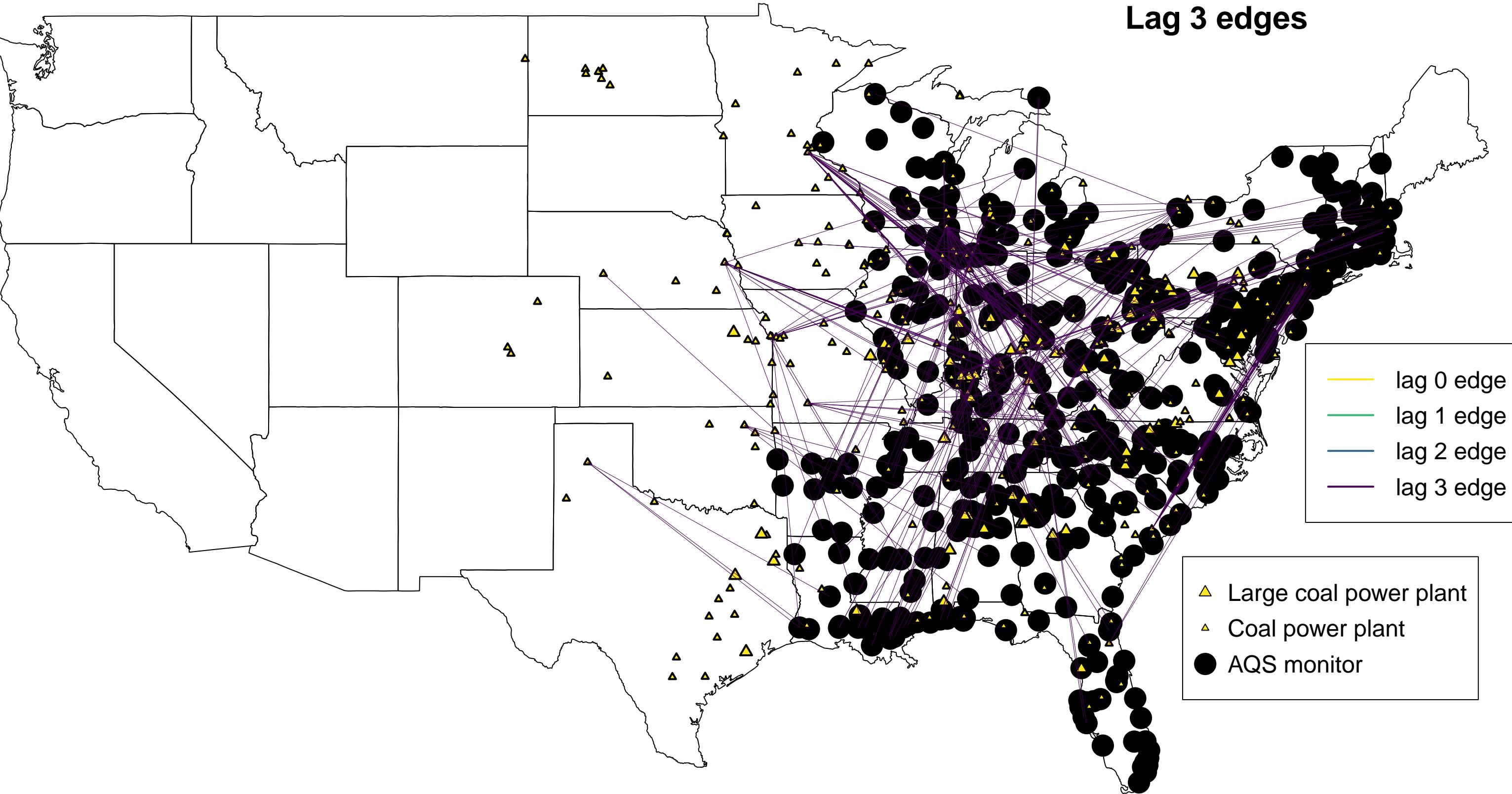
## Lag 1 edges

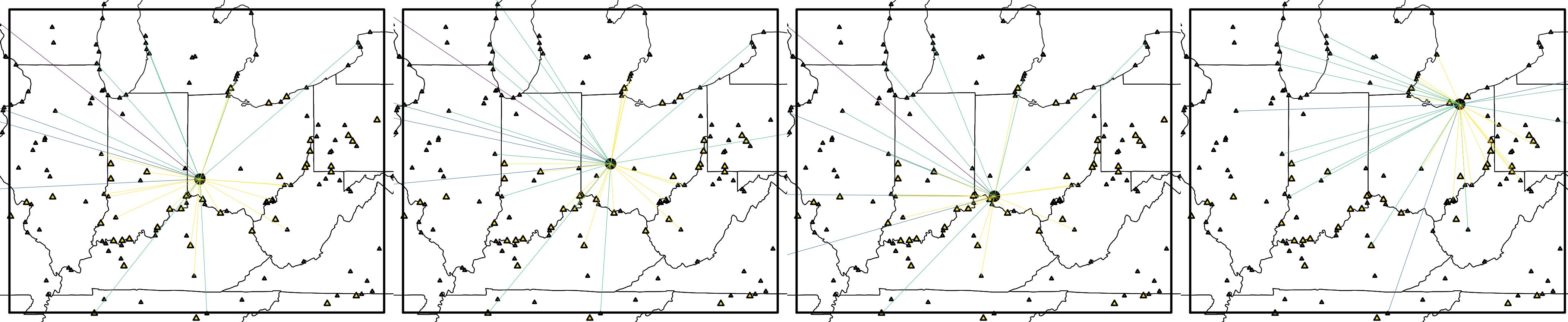


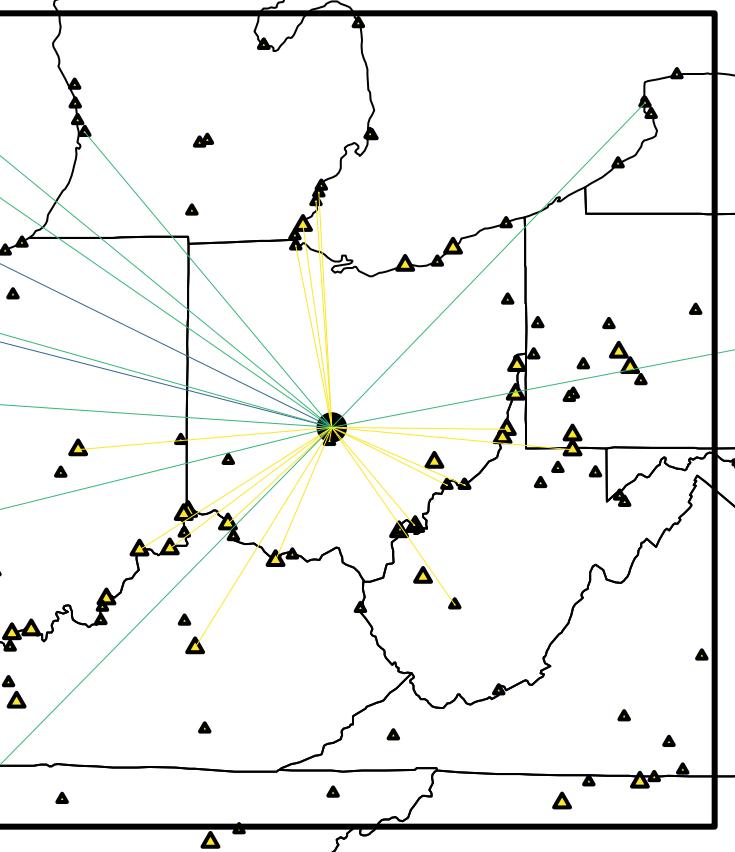
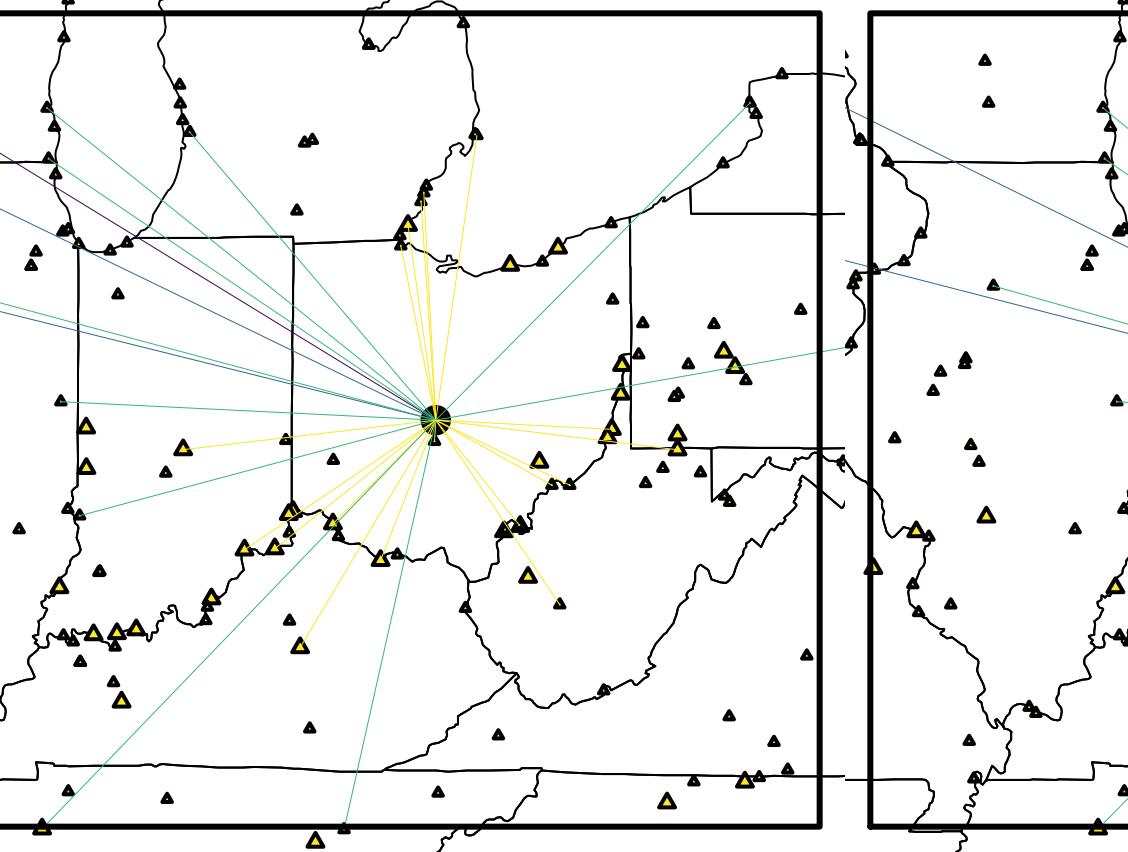
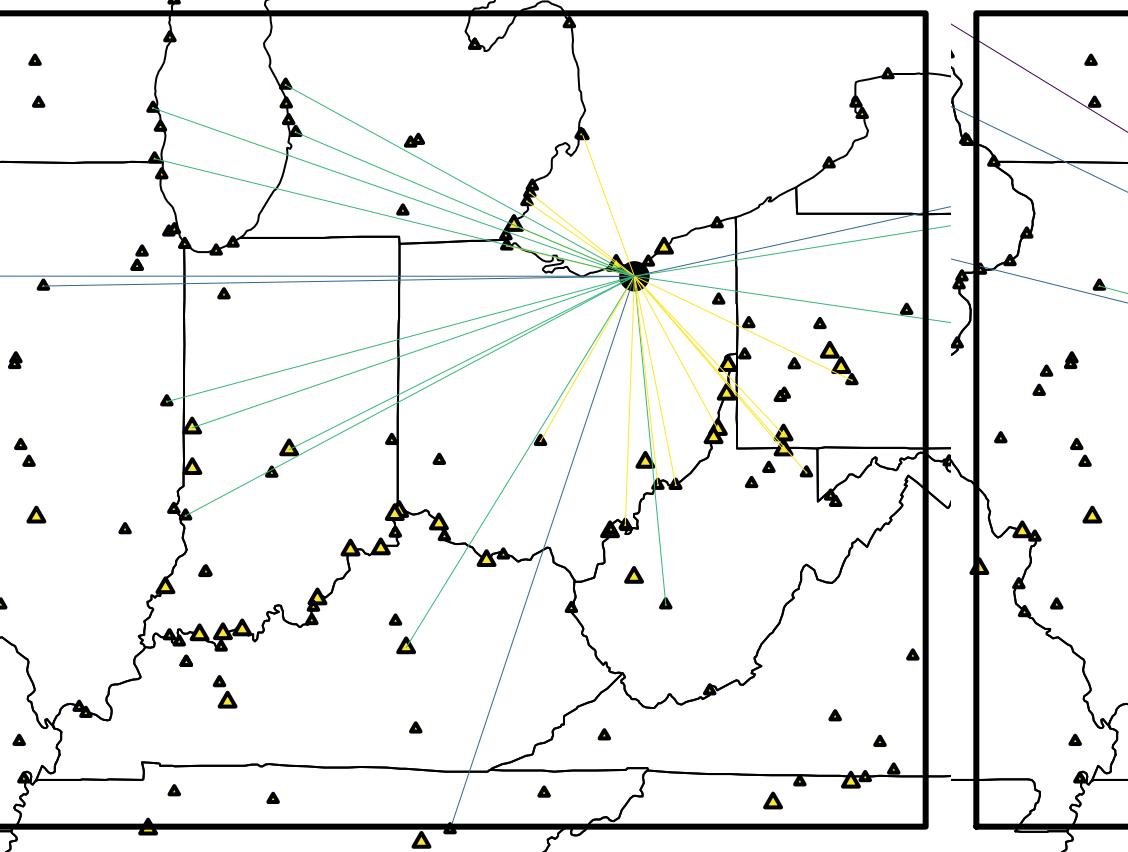
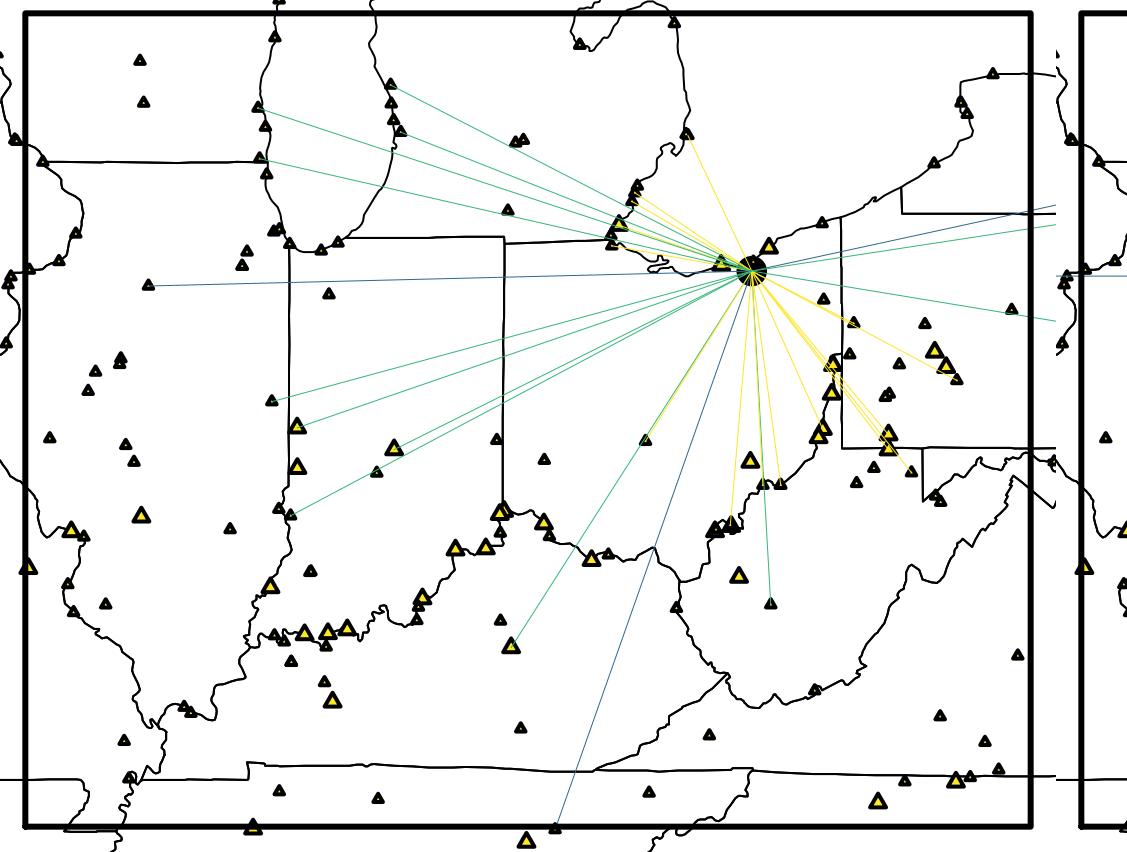
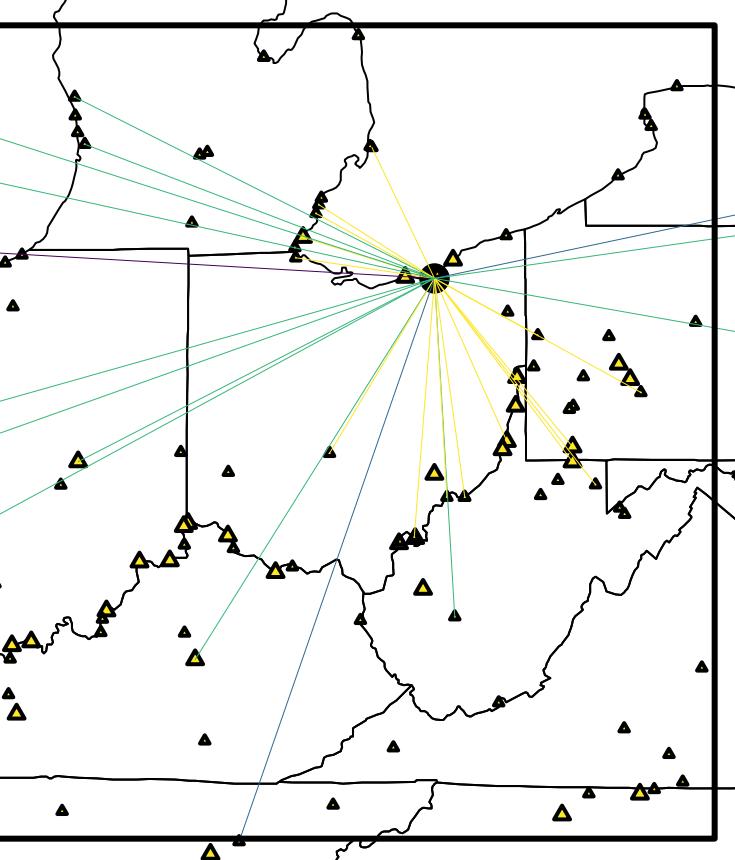
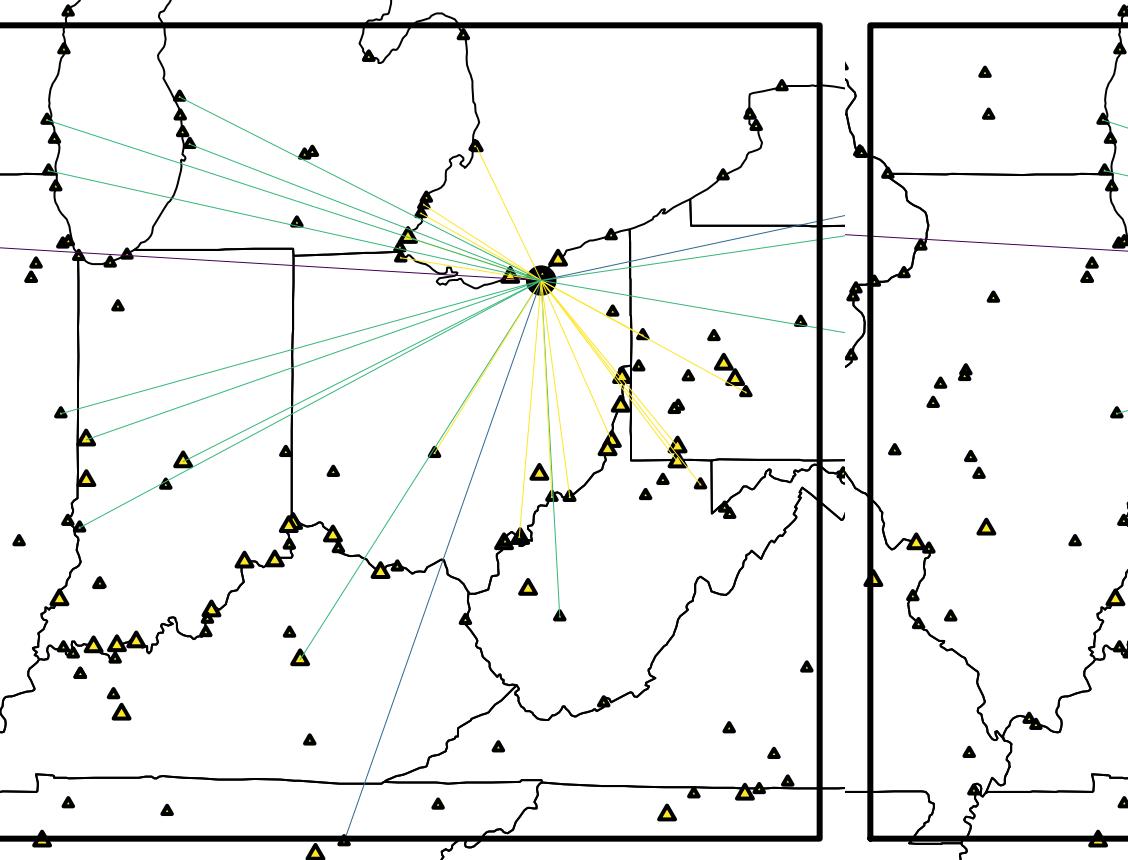
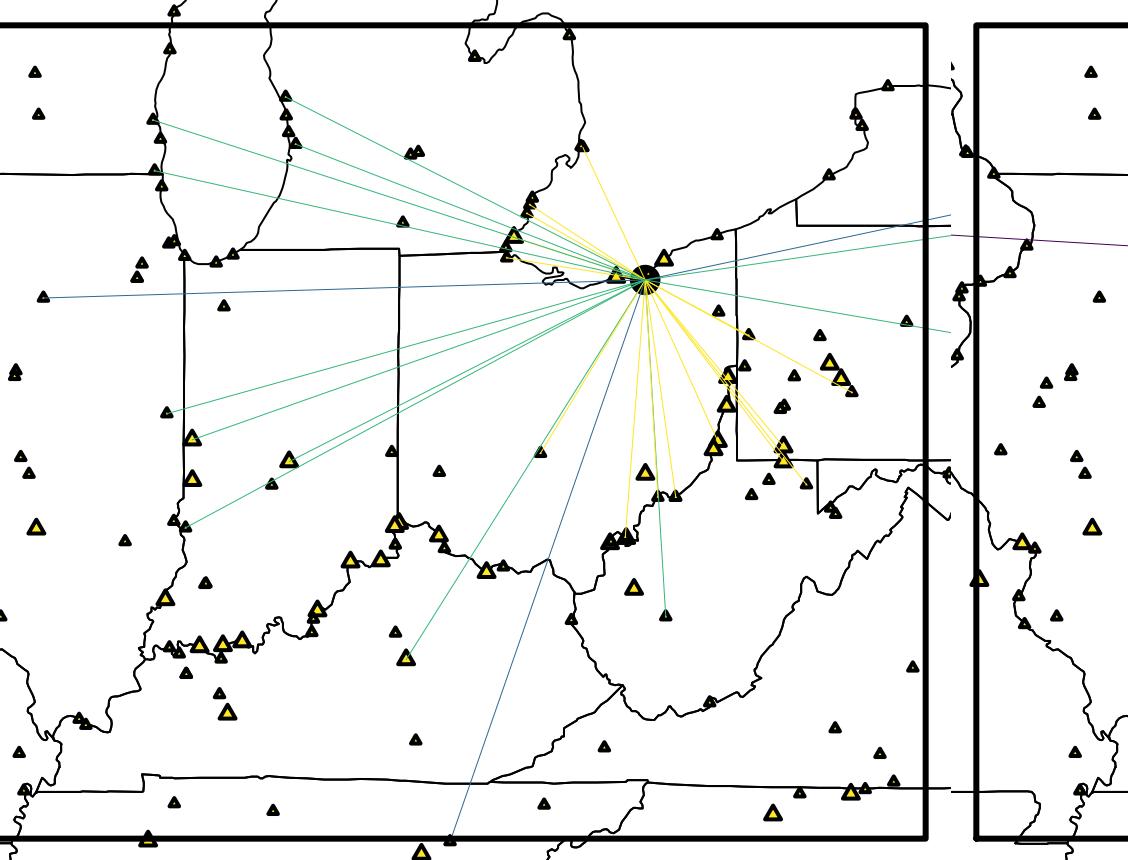
## Lag 2 edges

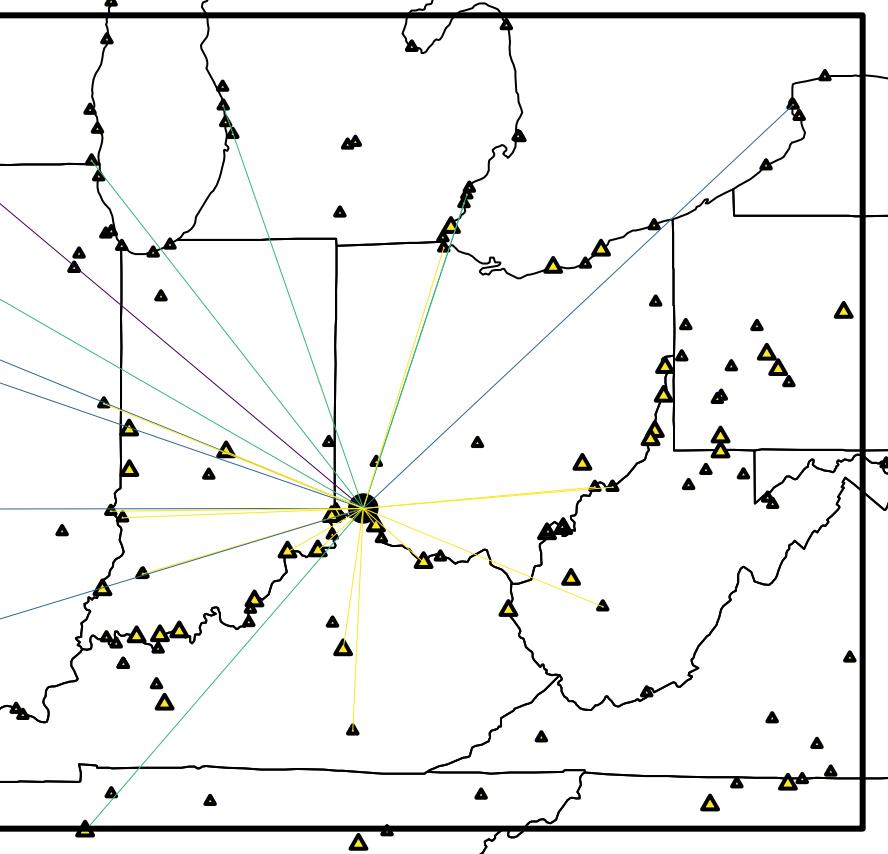
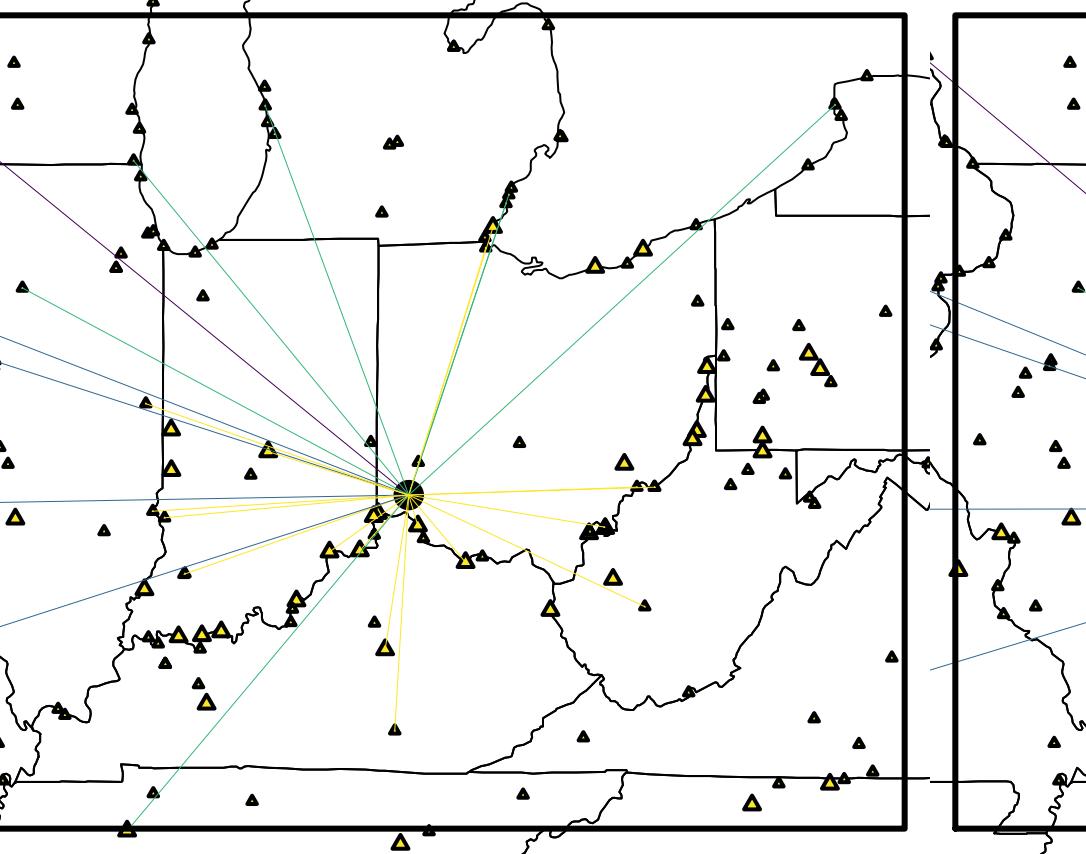
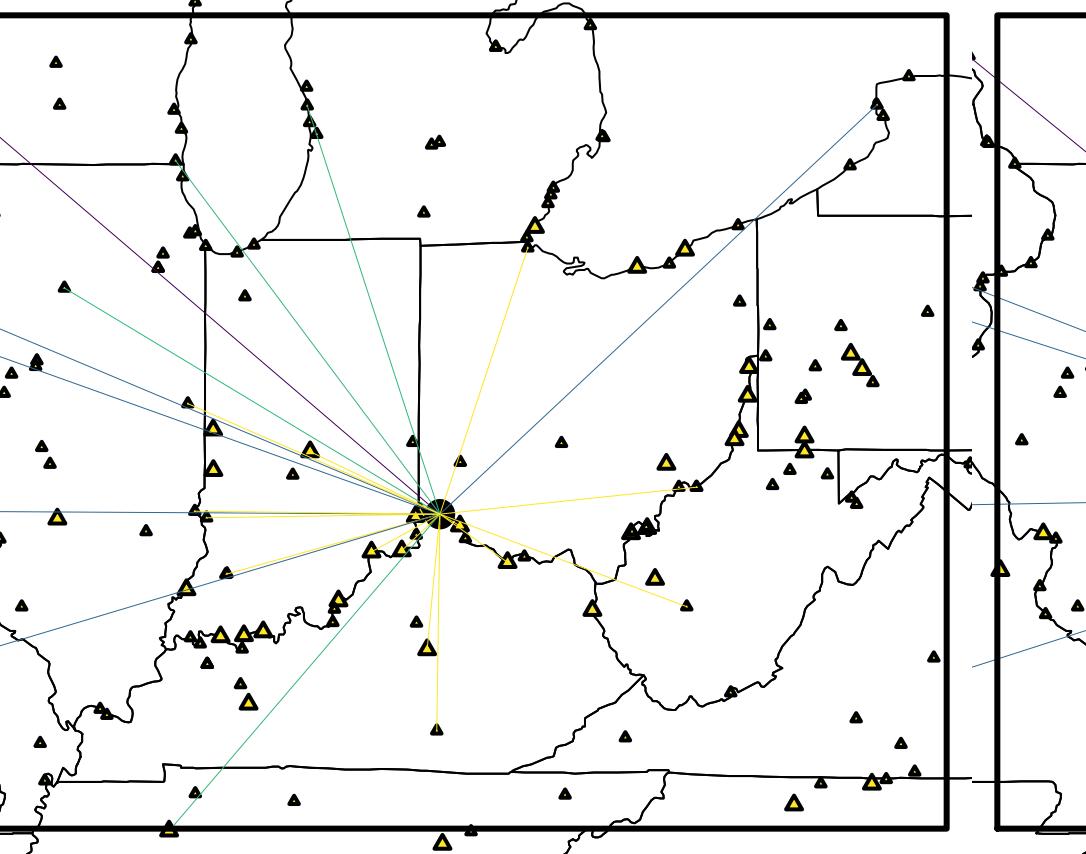
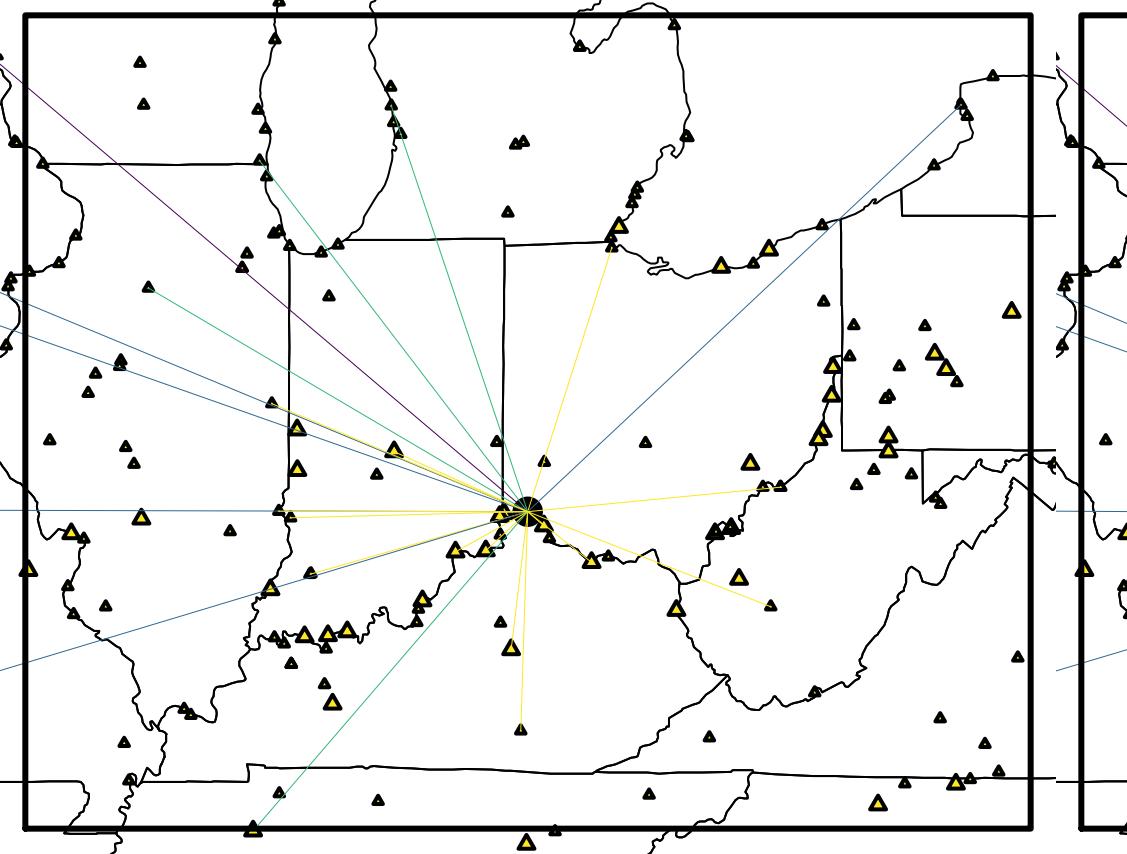
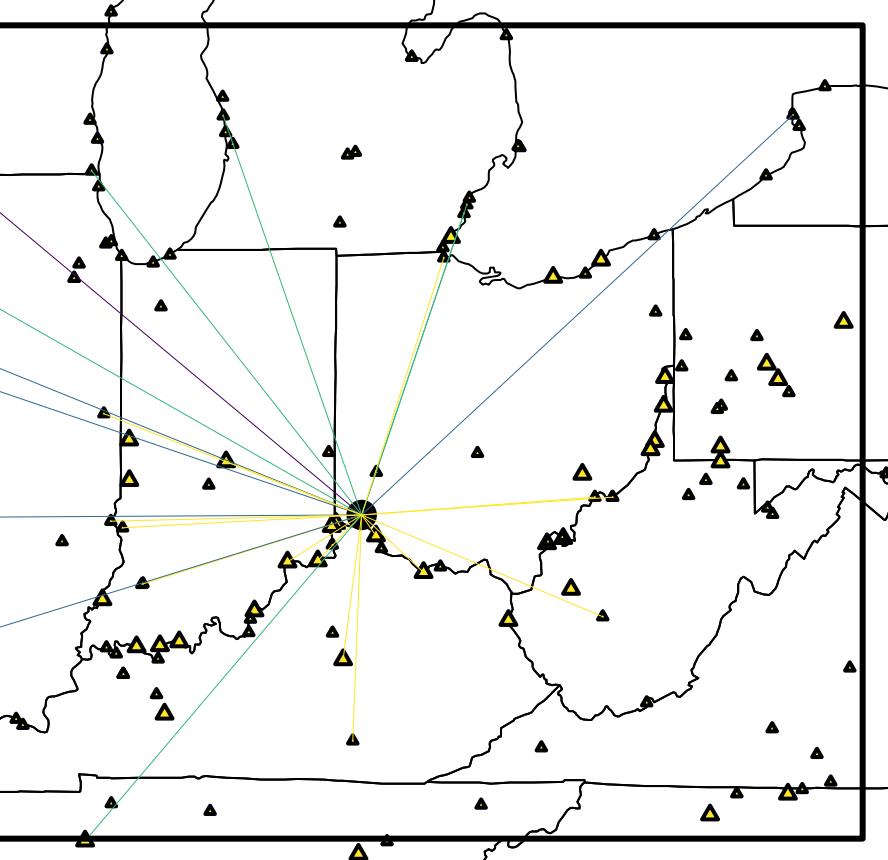
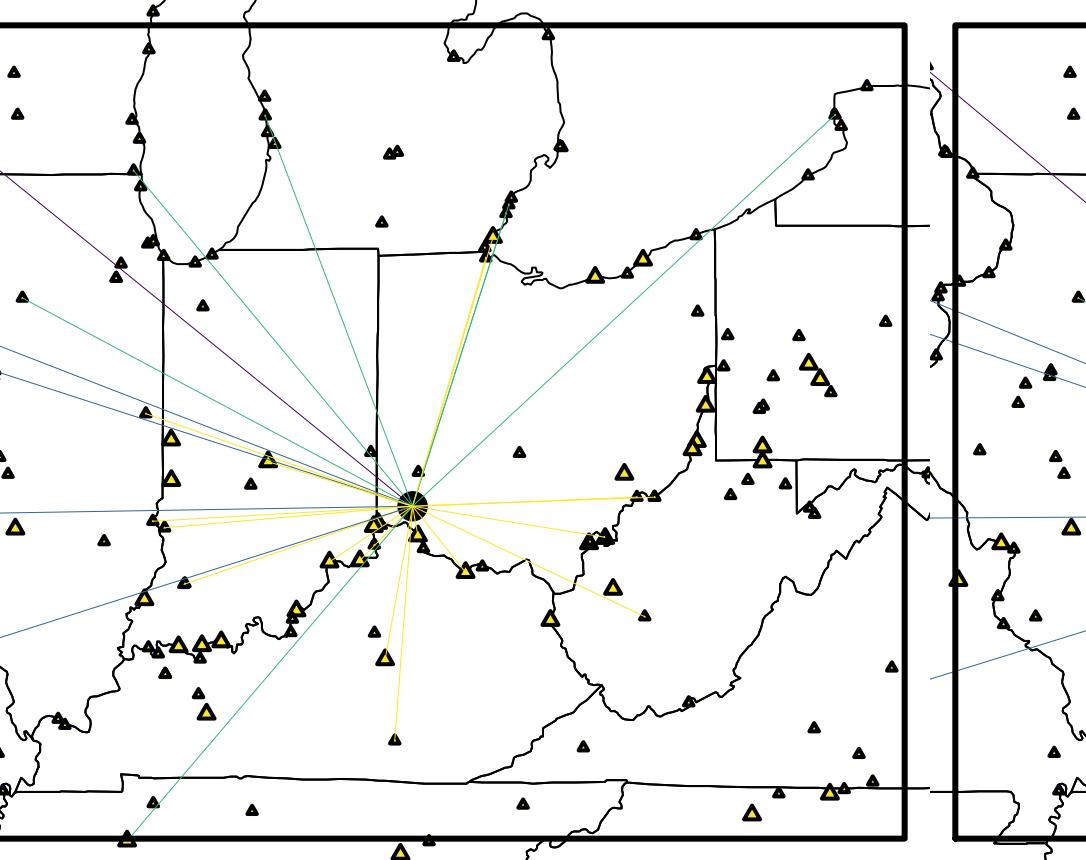
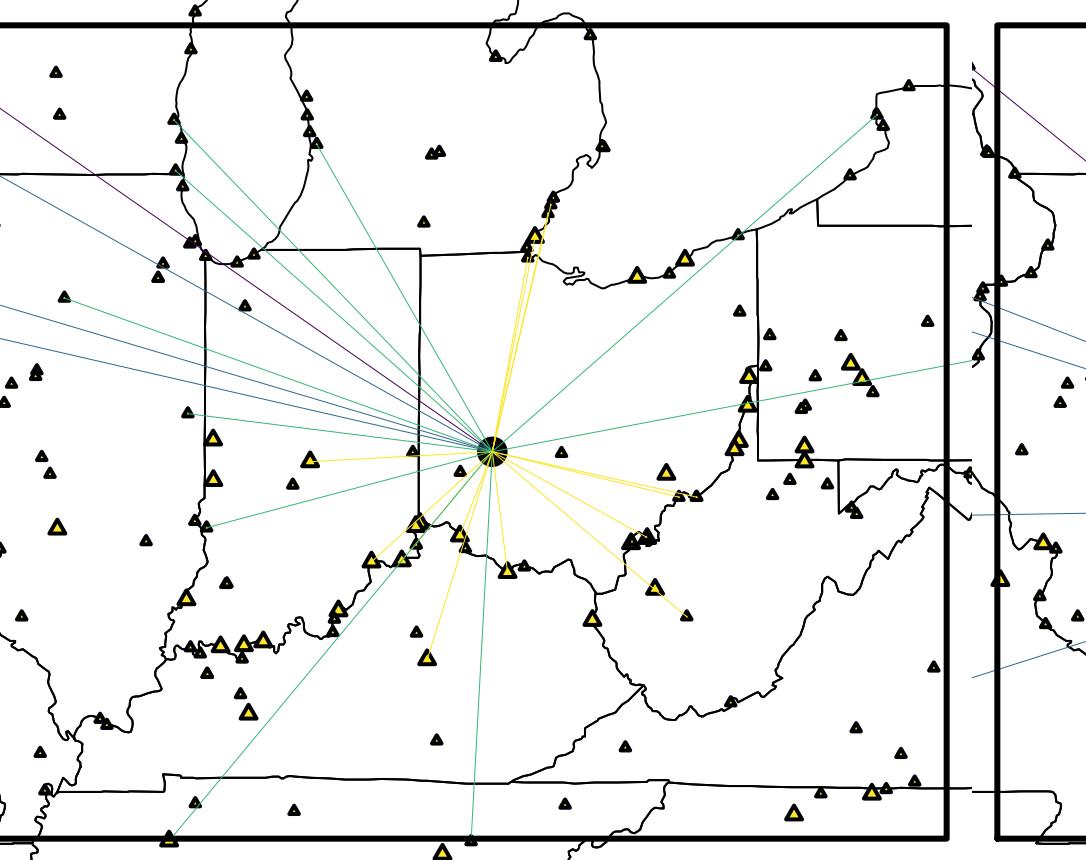
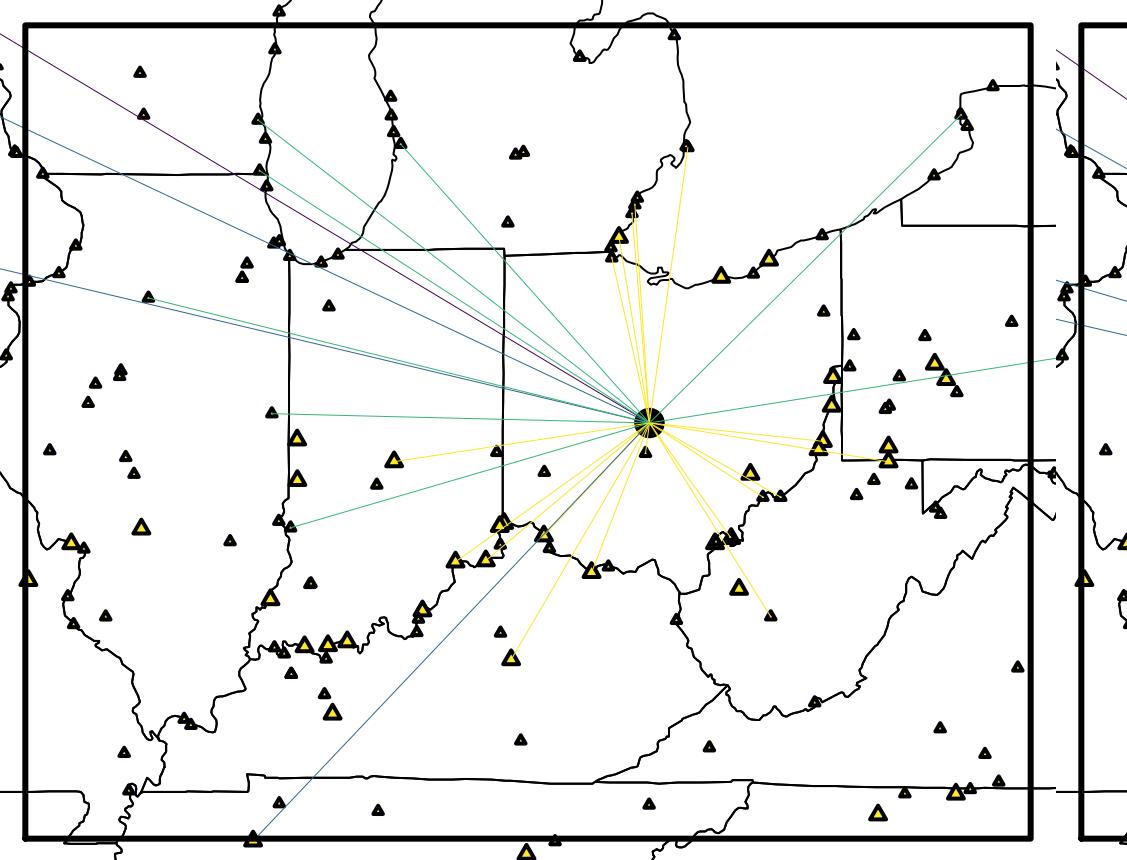


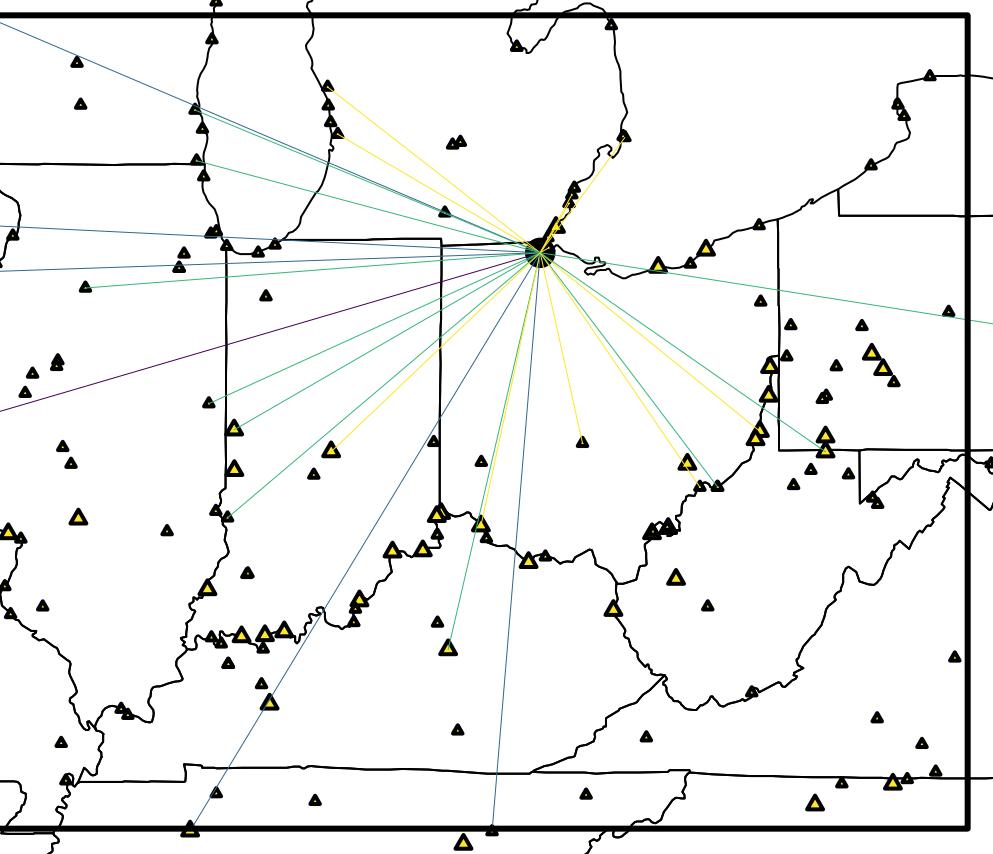
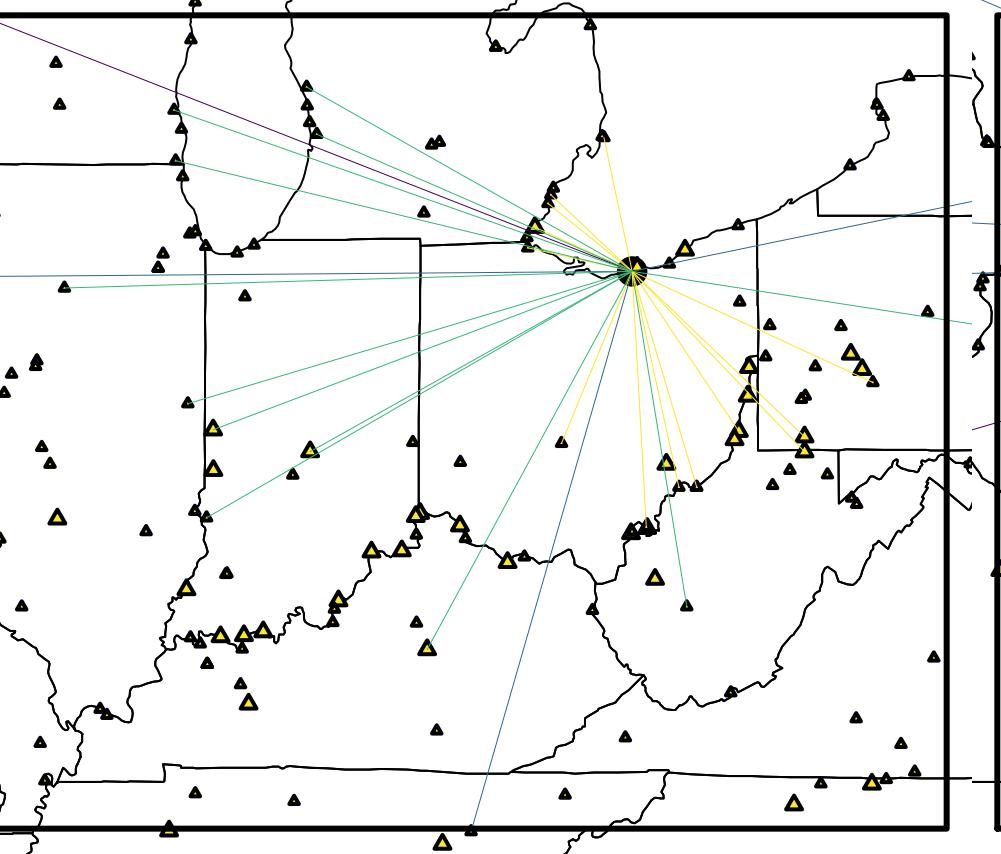
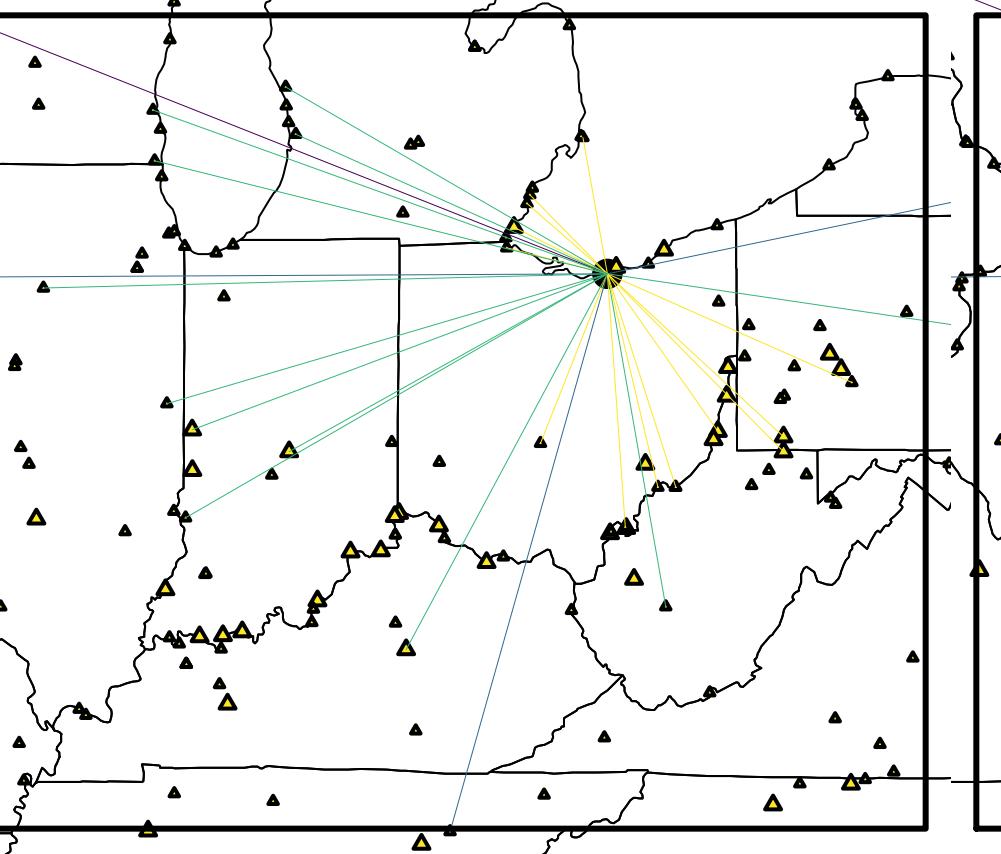
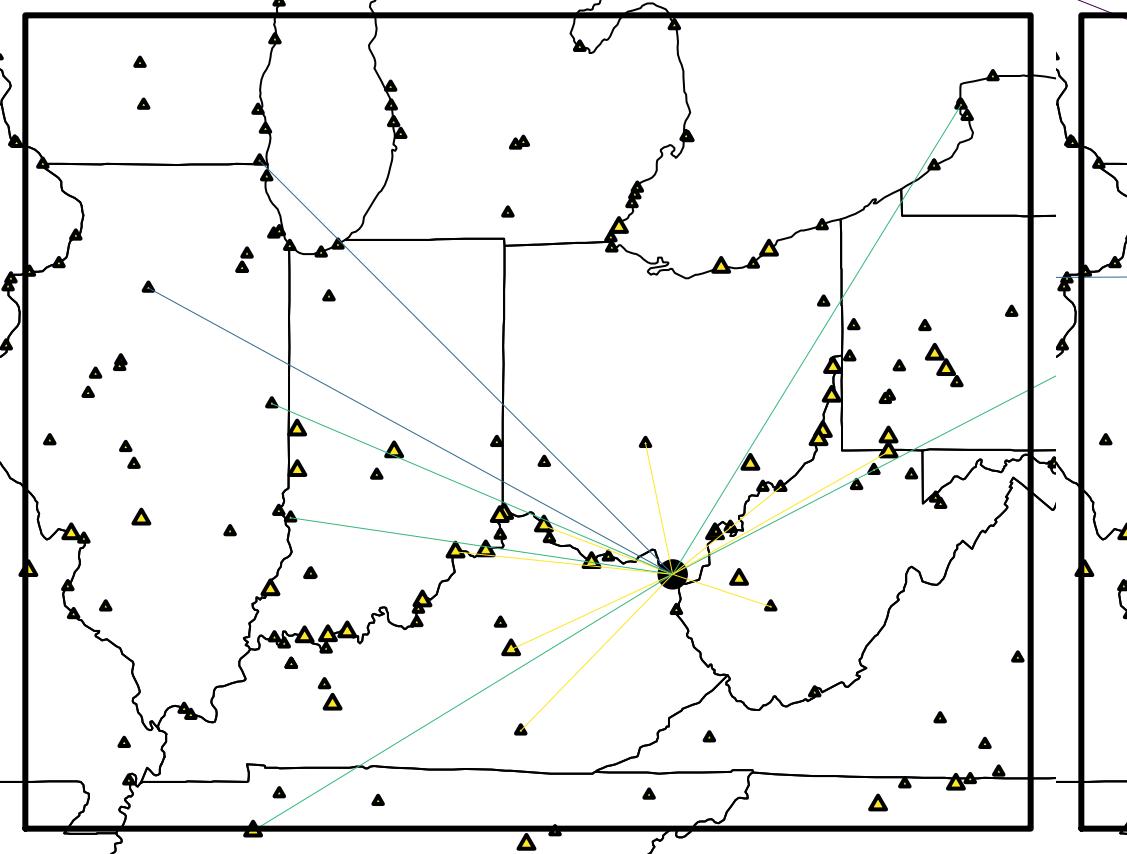
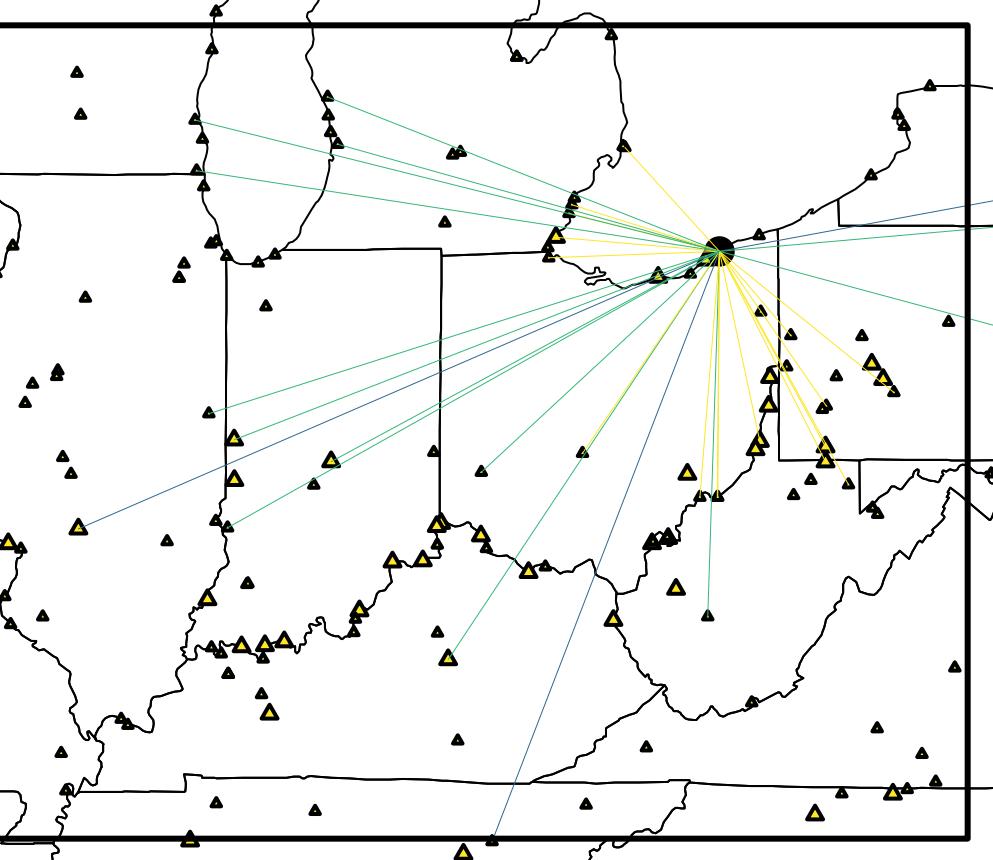
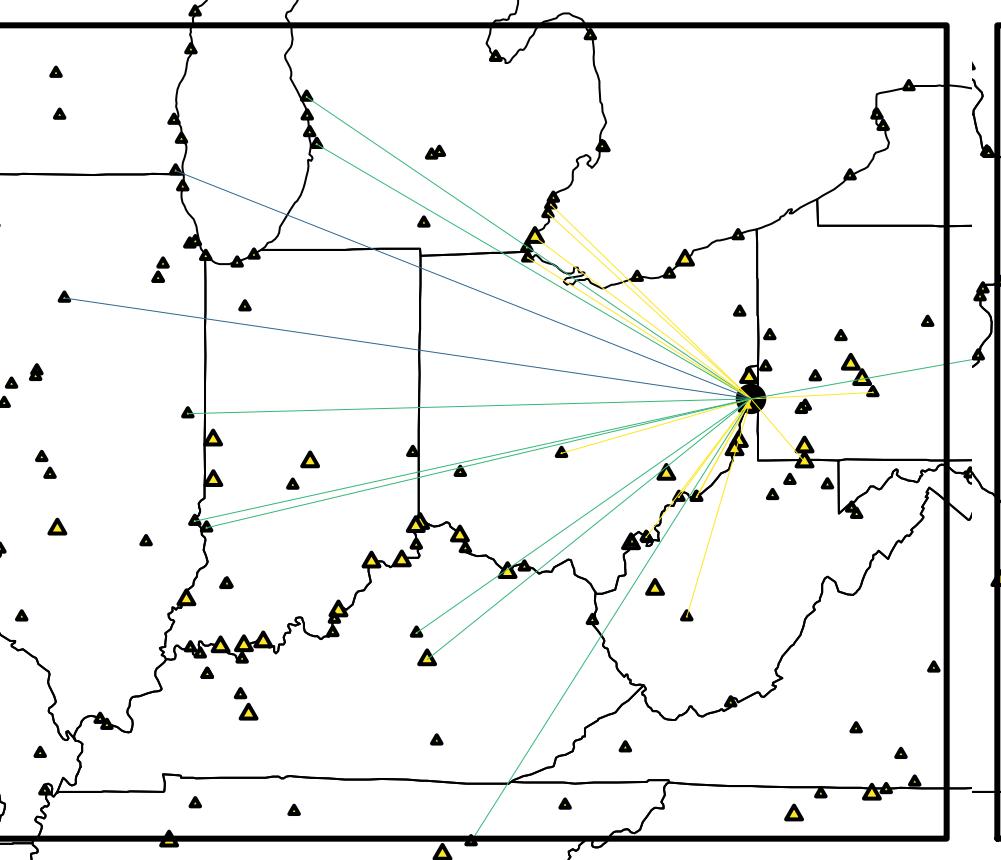
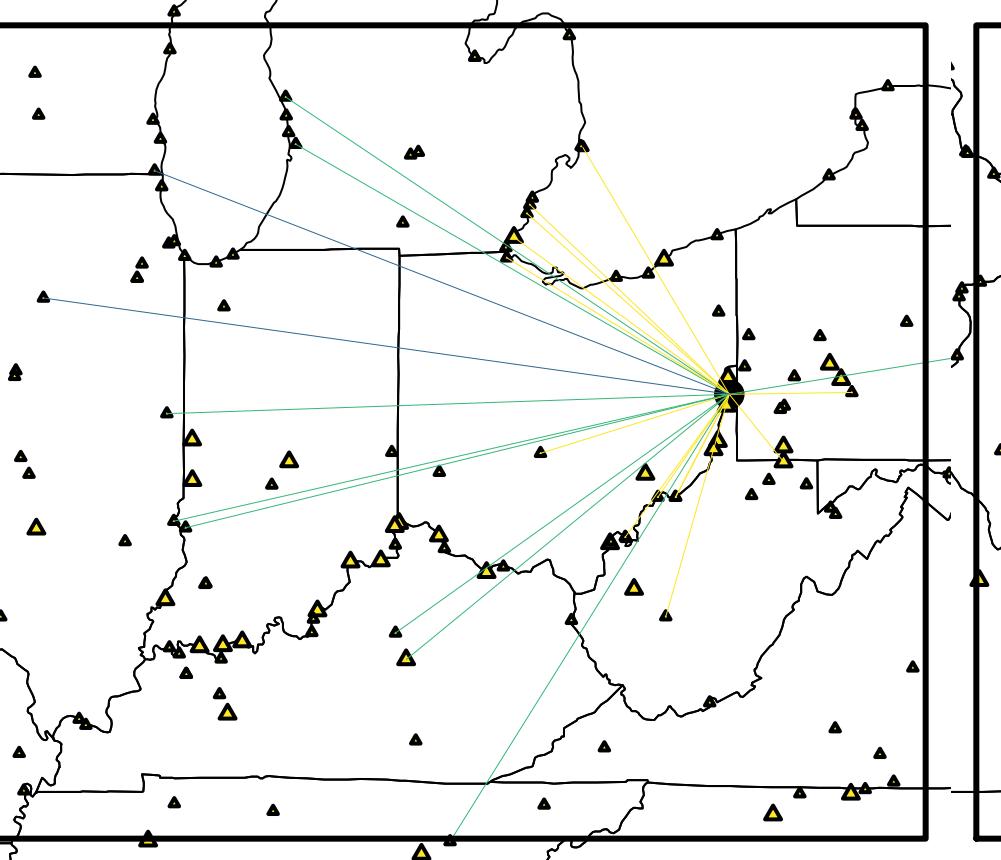
## Lag 3 edges

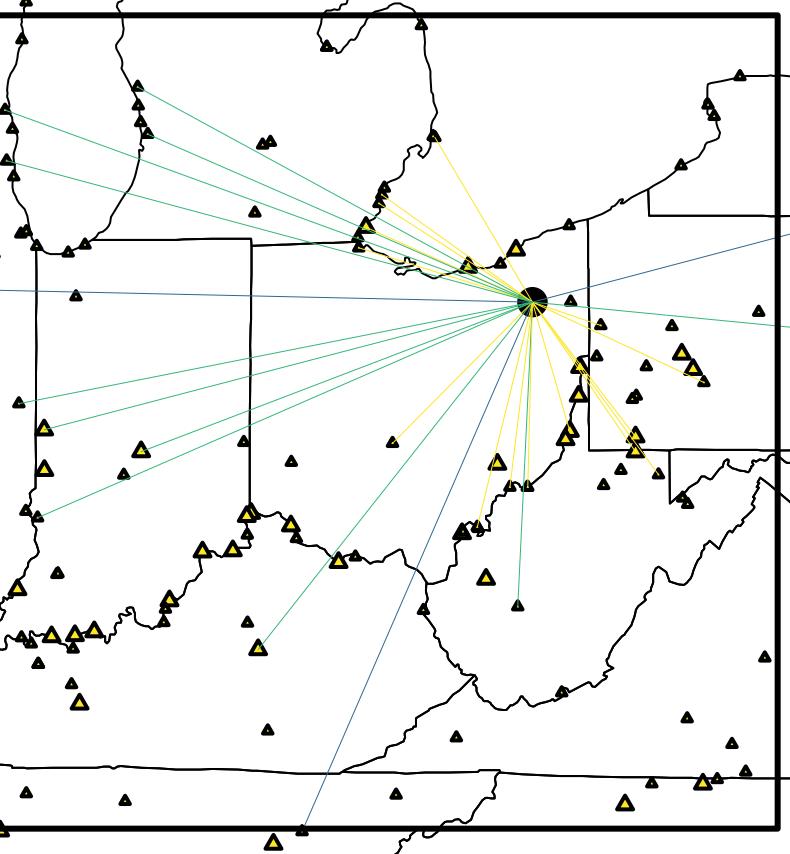
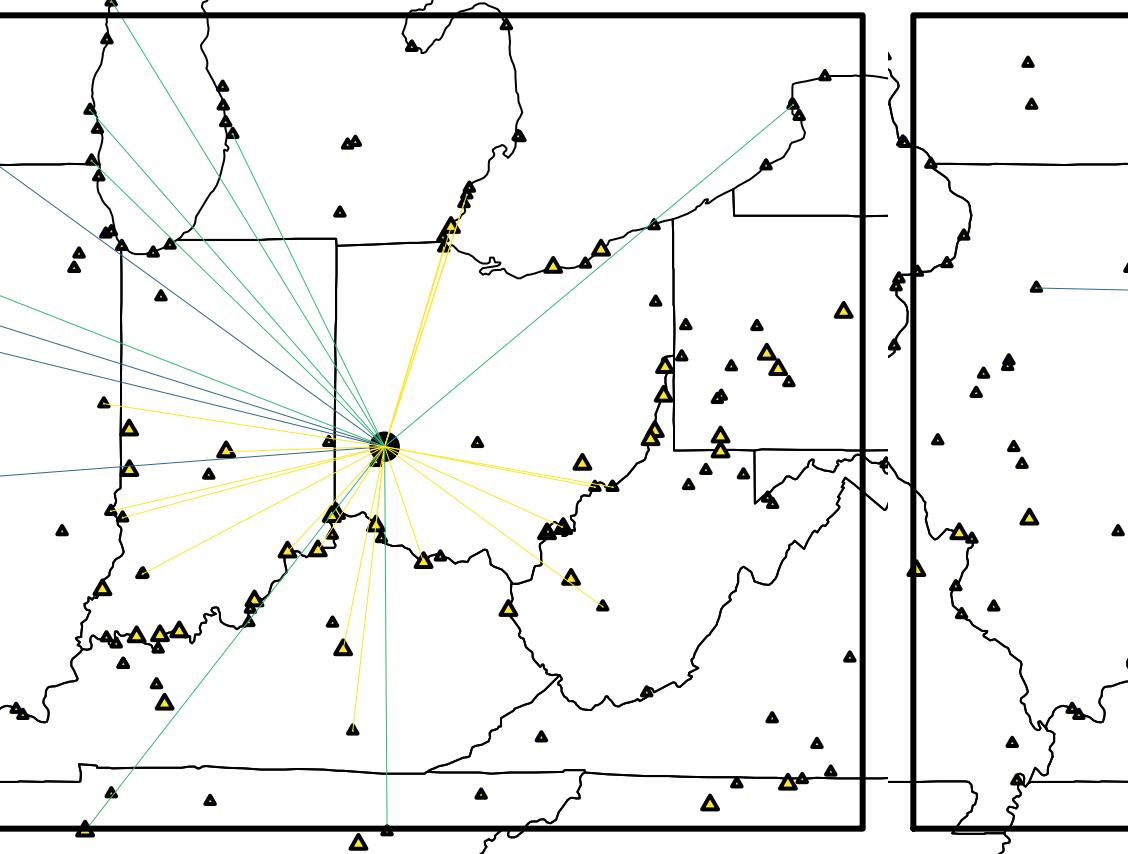
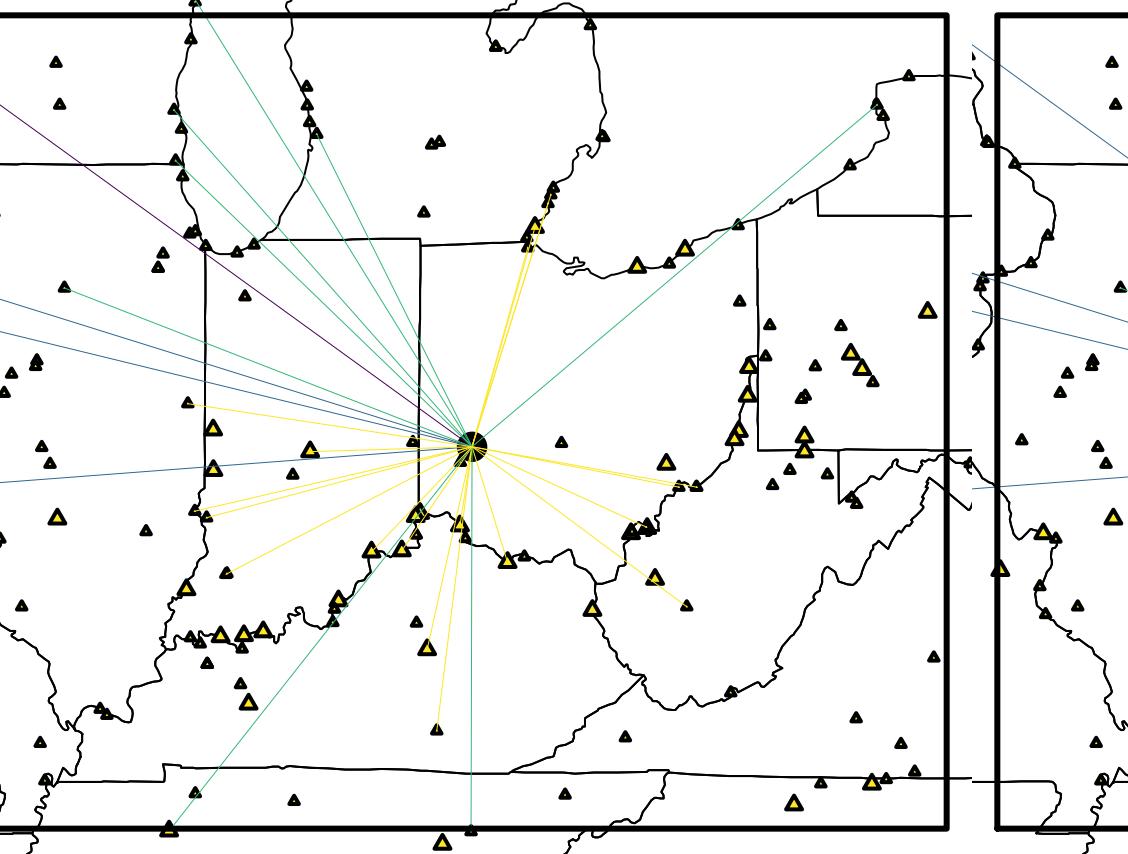
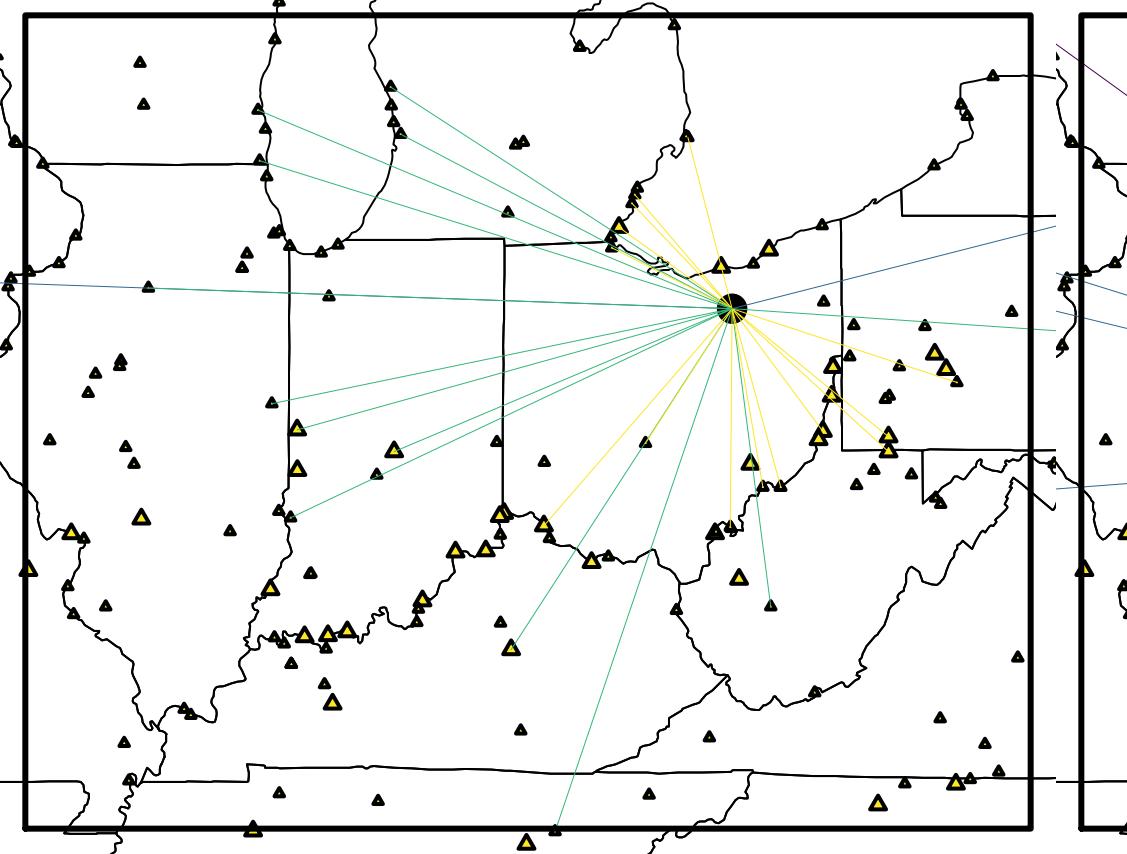
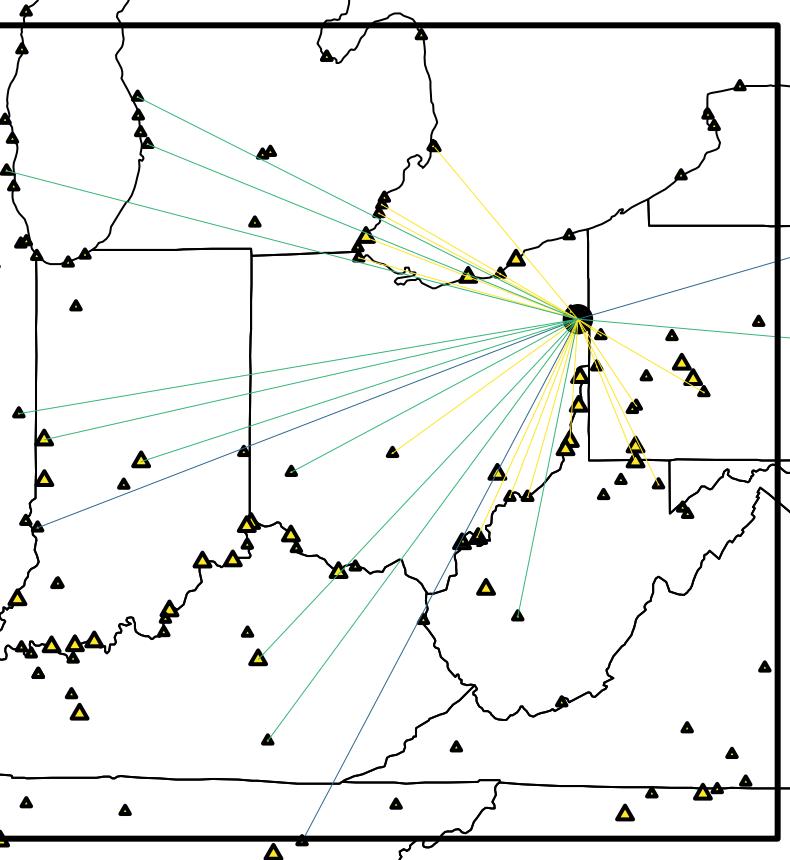
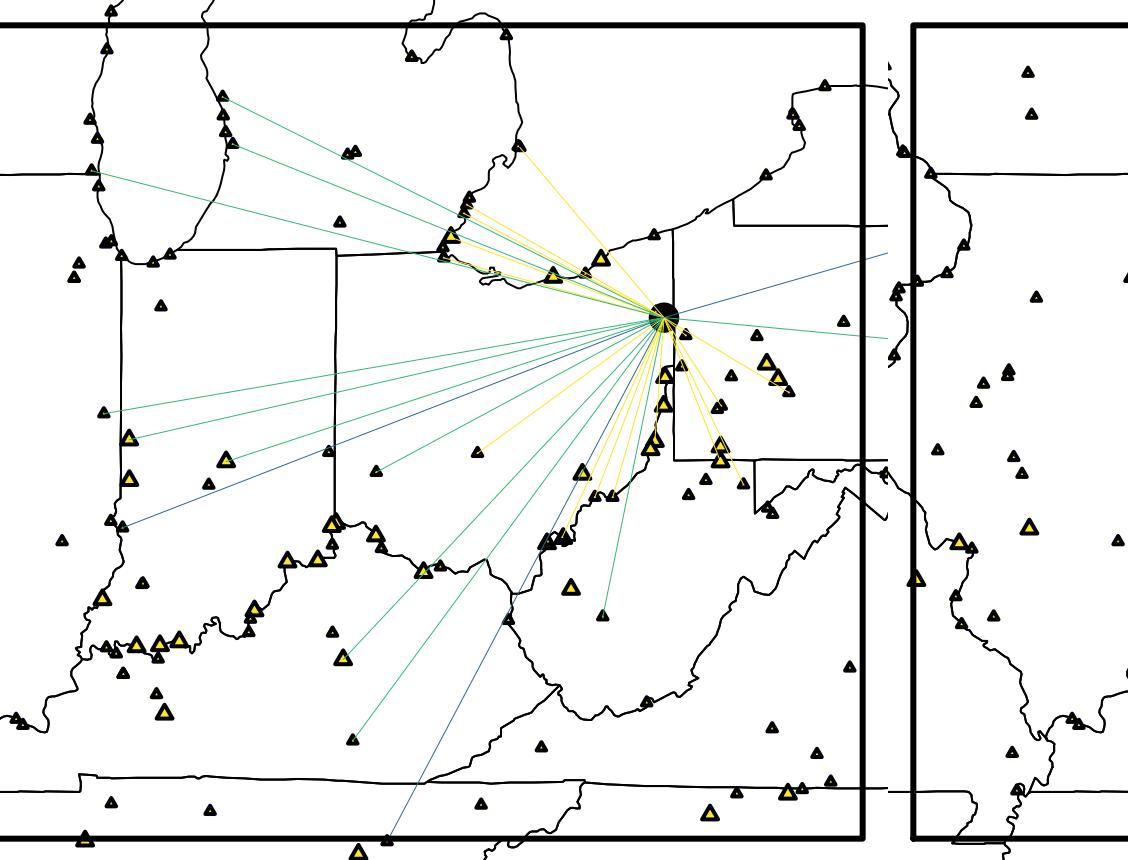
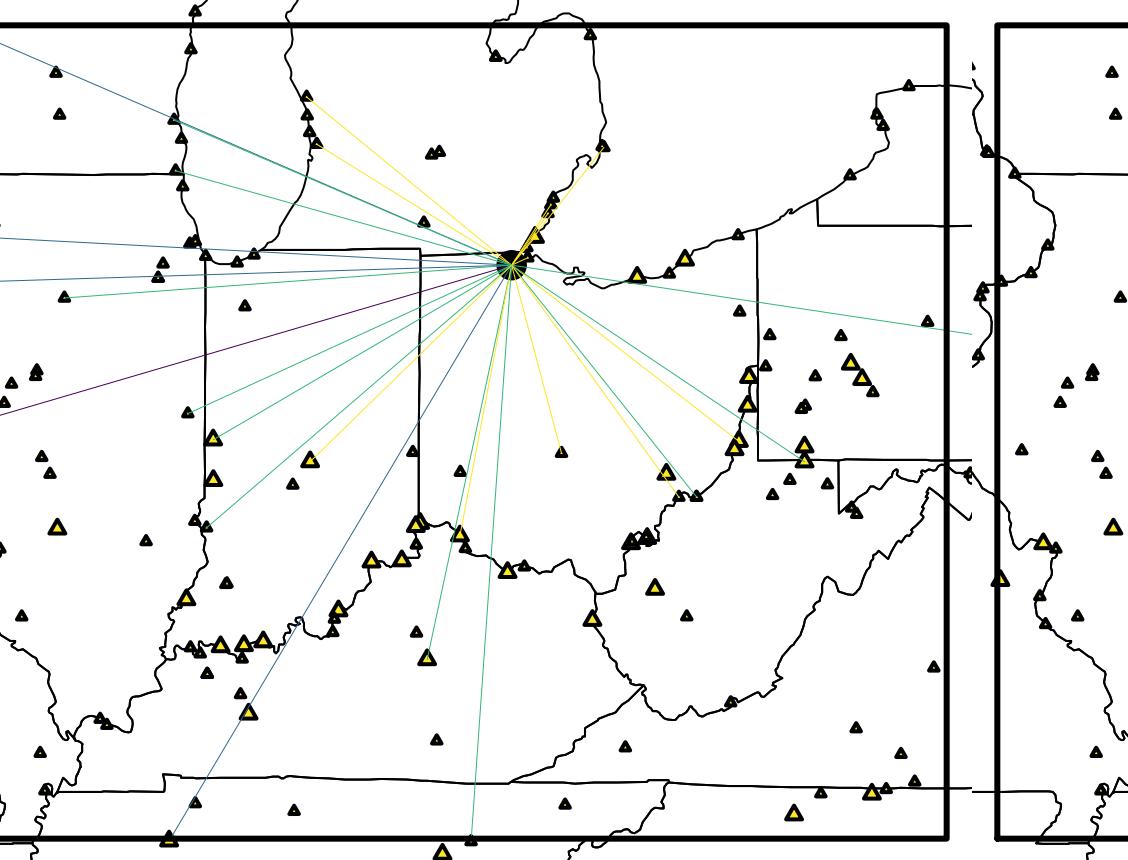


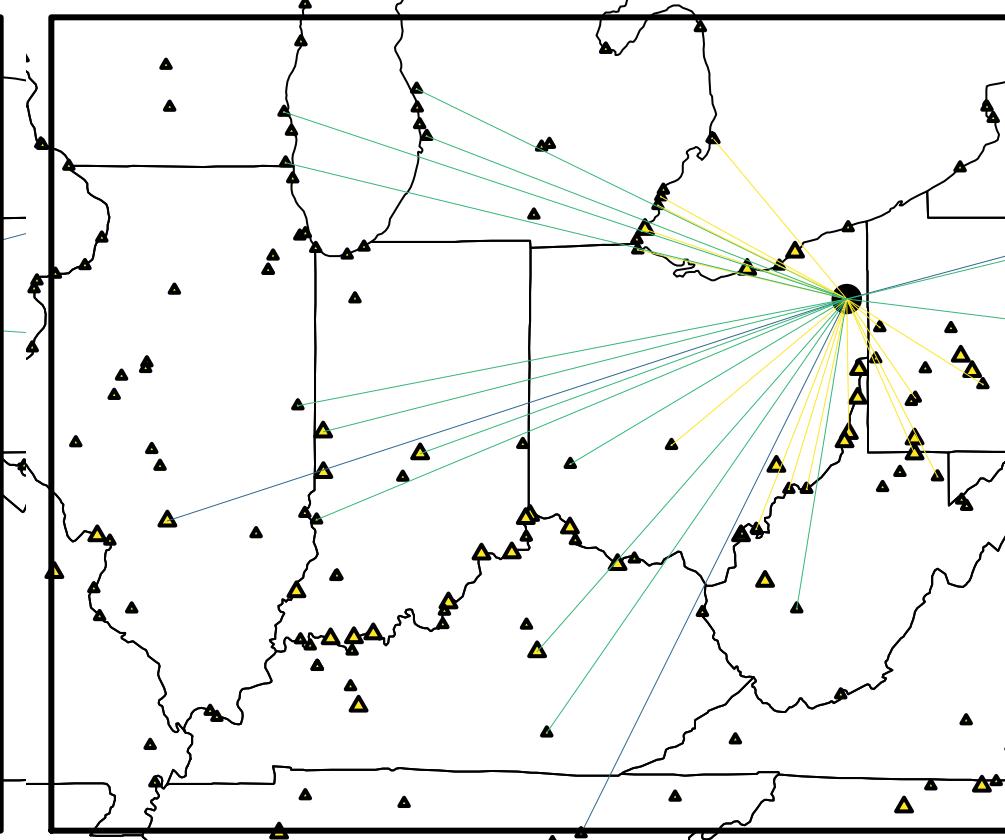
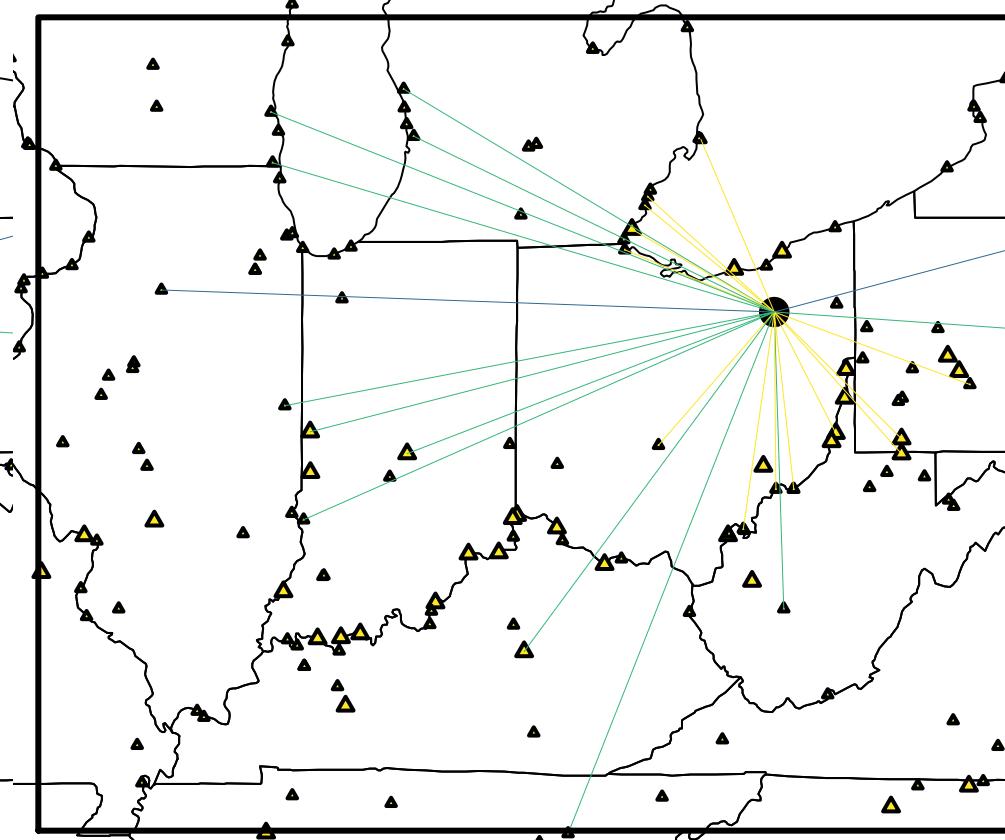
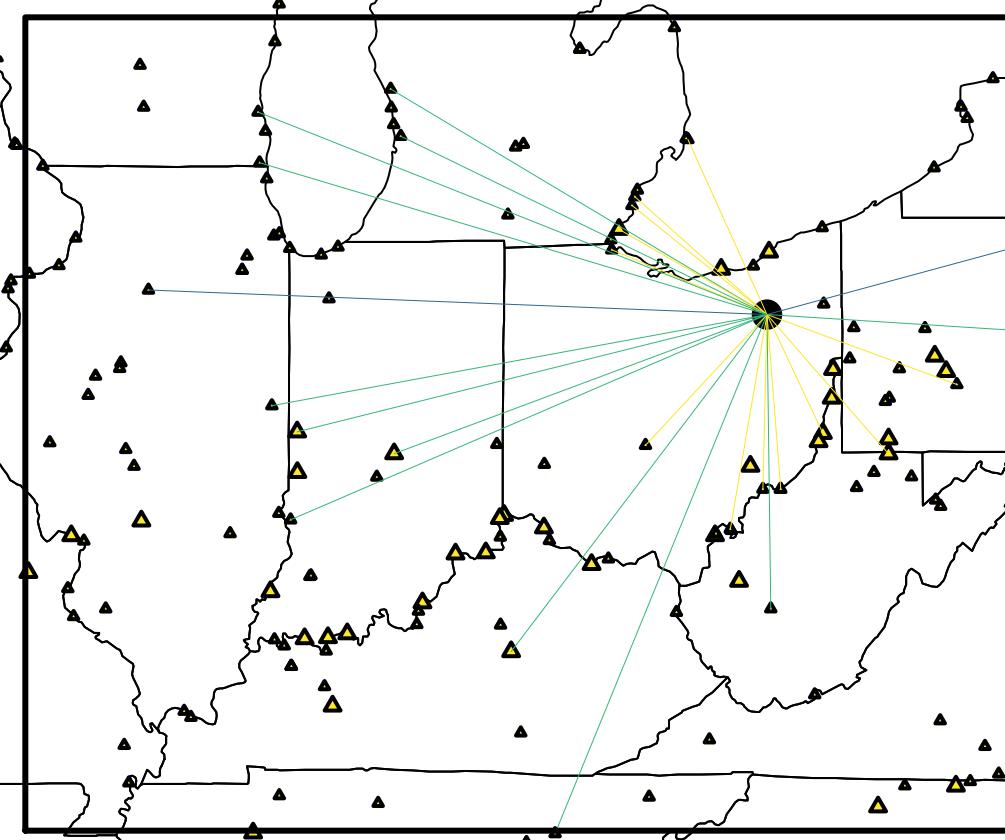
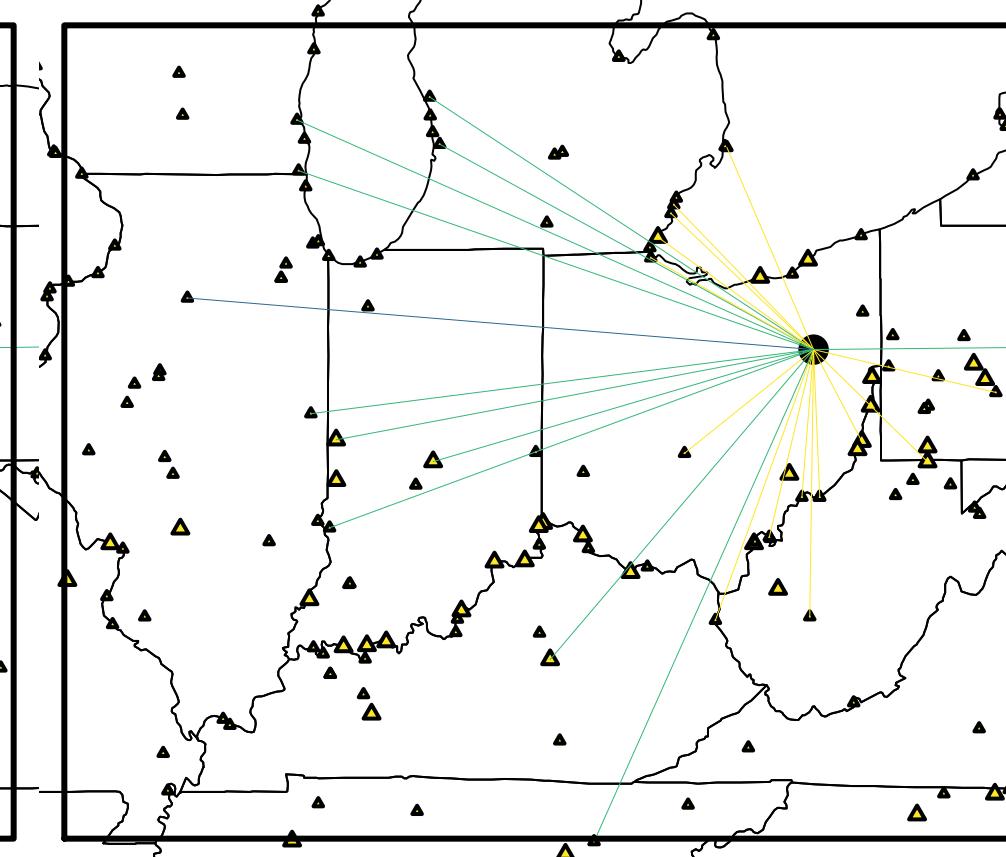
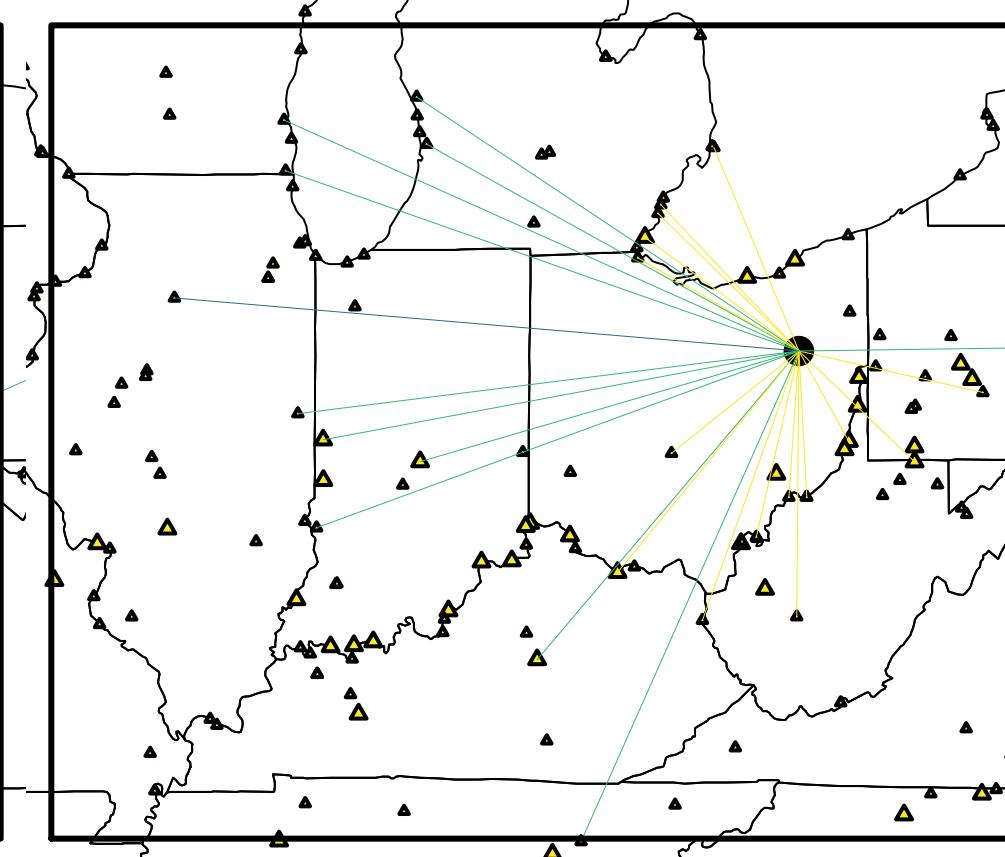
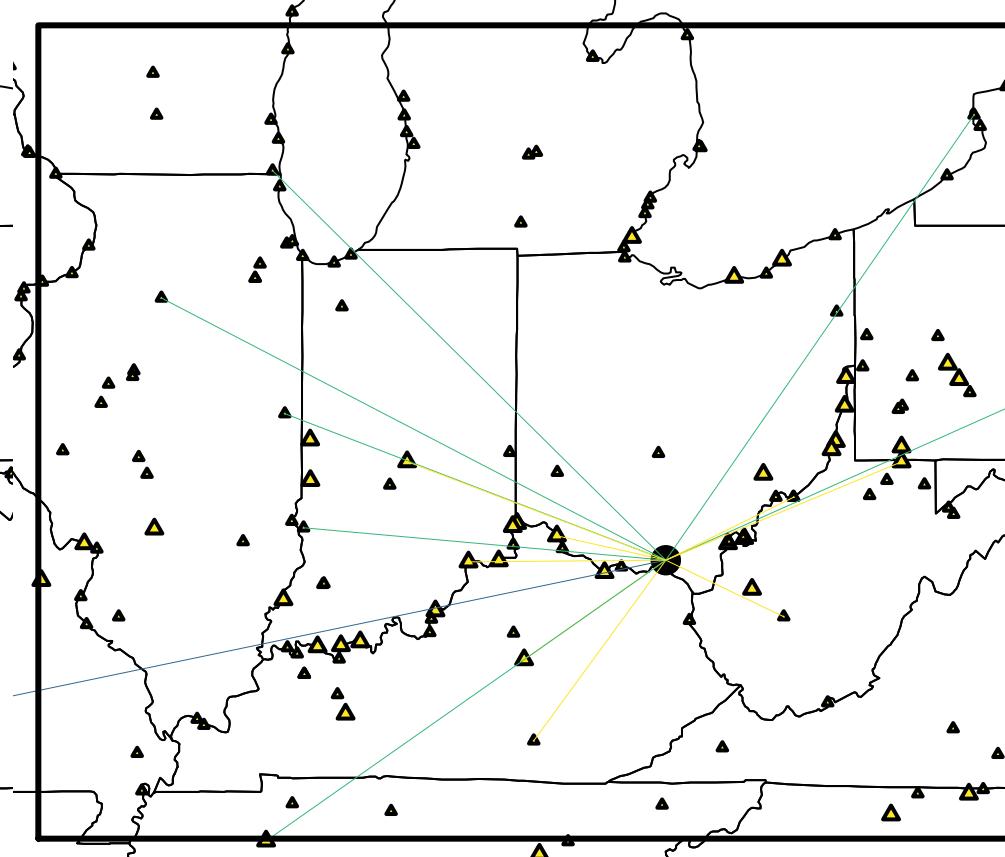
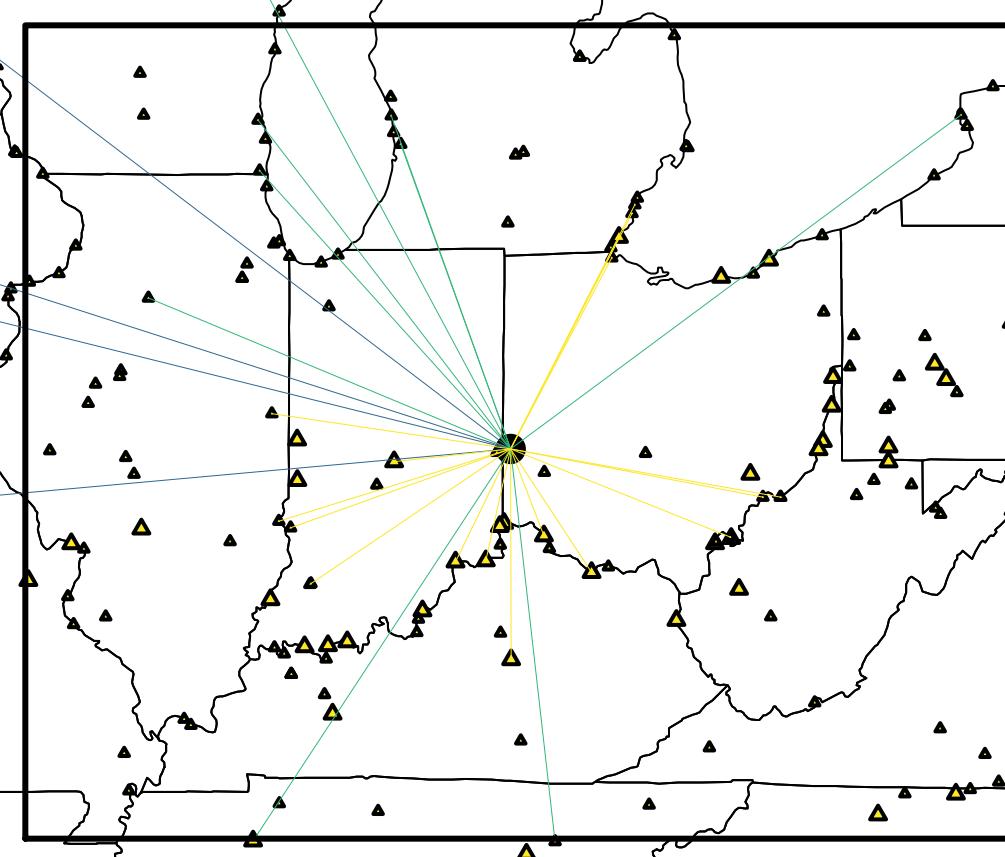


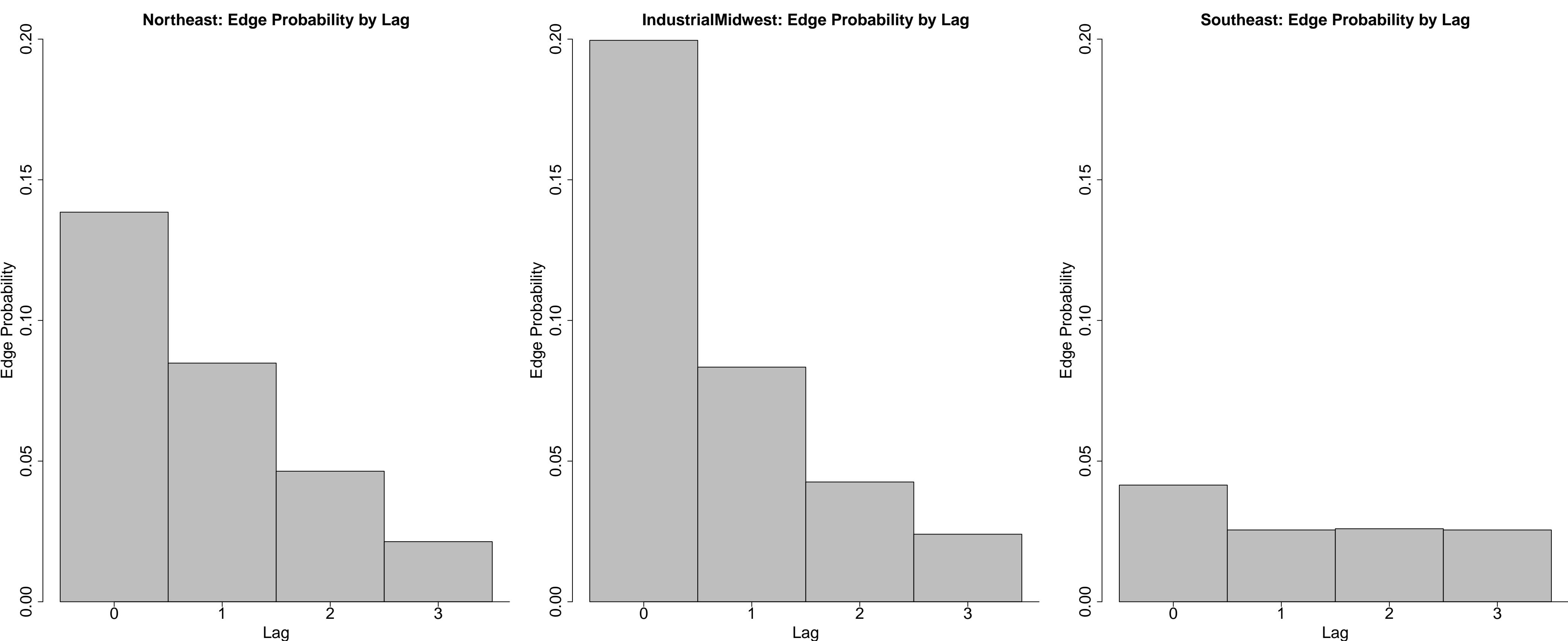




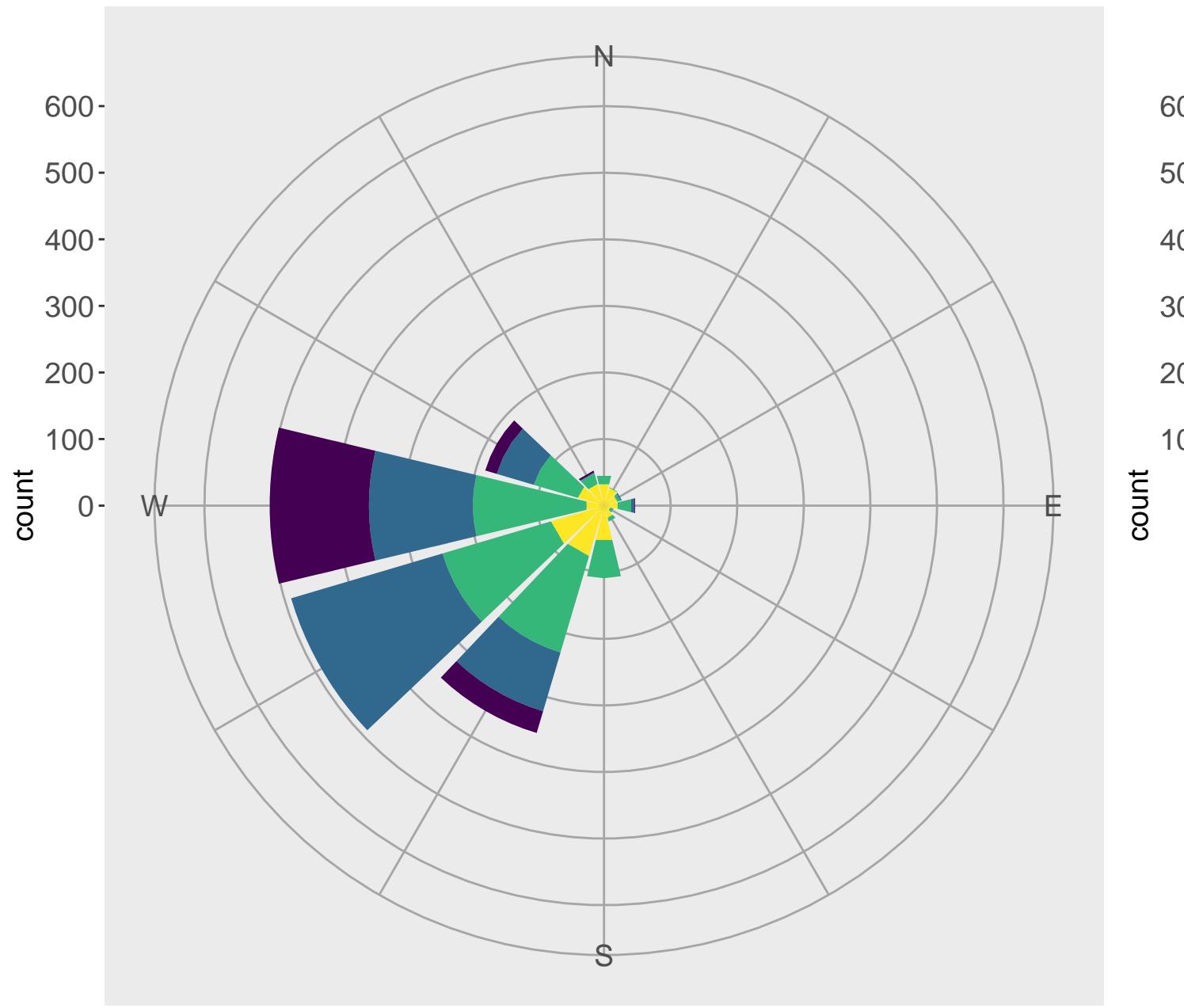




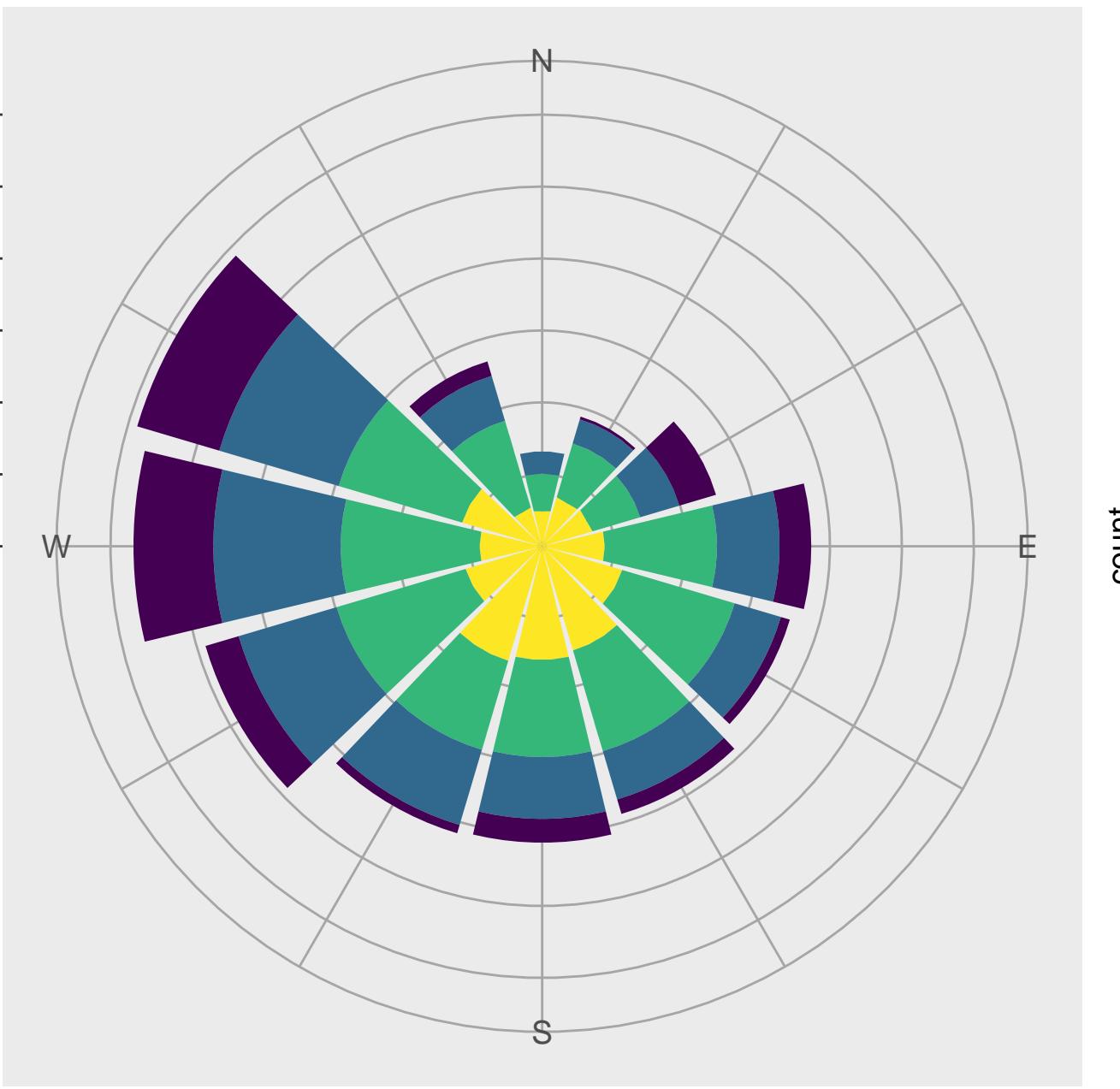




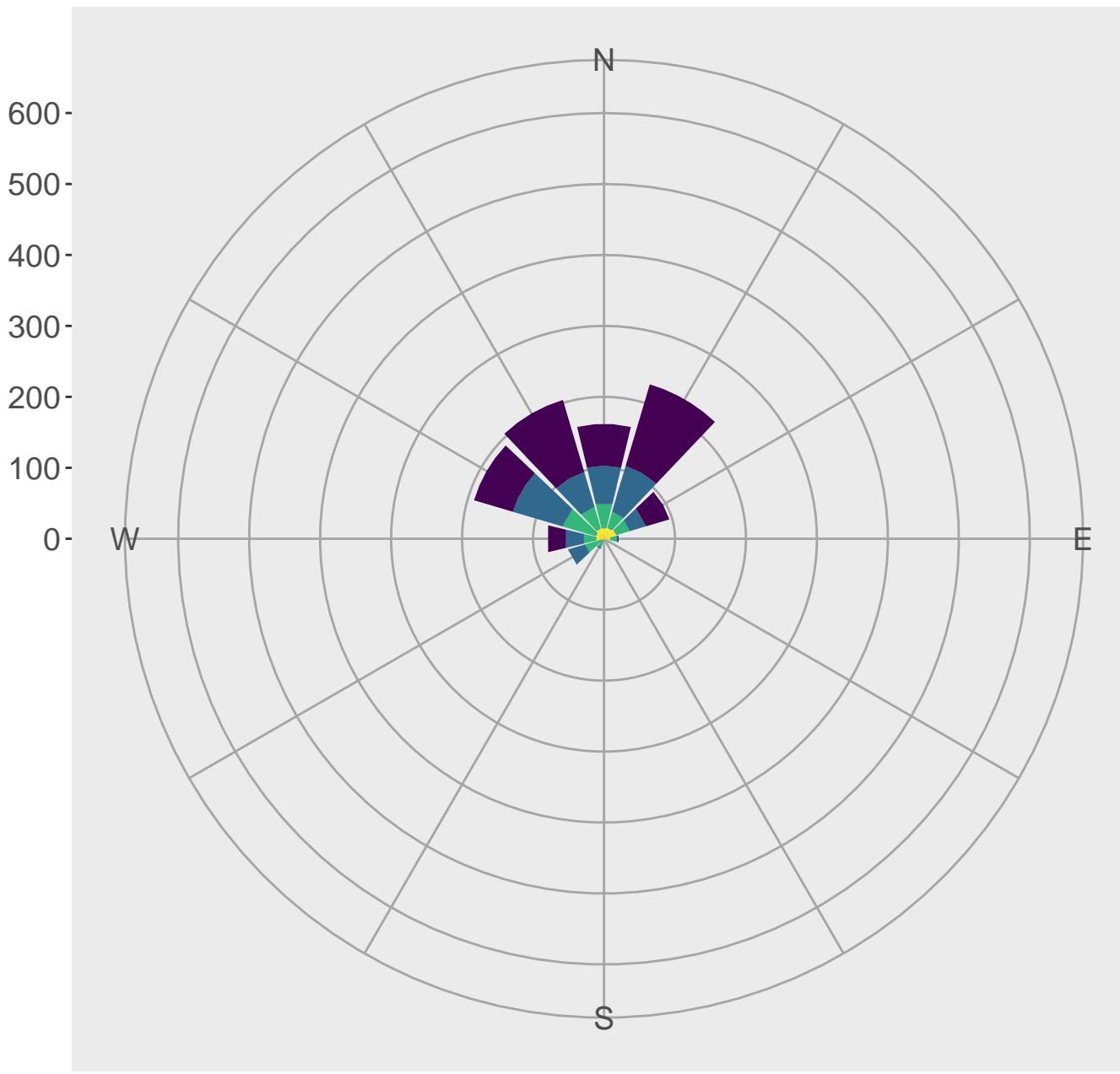
**Edge counts by distance/direction to source**  
Northeast receptors



**Edge counts by distance/direction to source**  
IndustrialMidwest receptors



**Edge counts by distance/direction to source**  
Southeast receptors



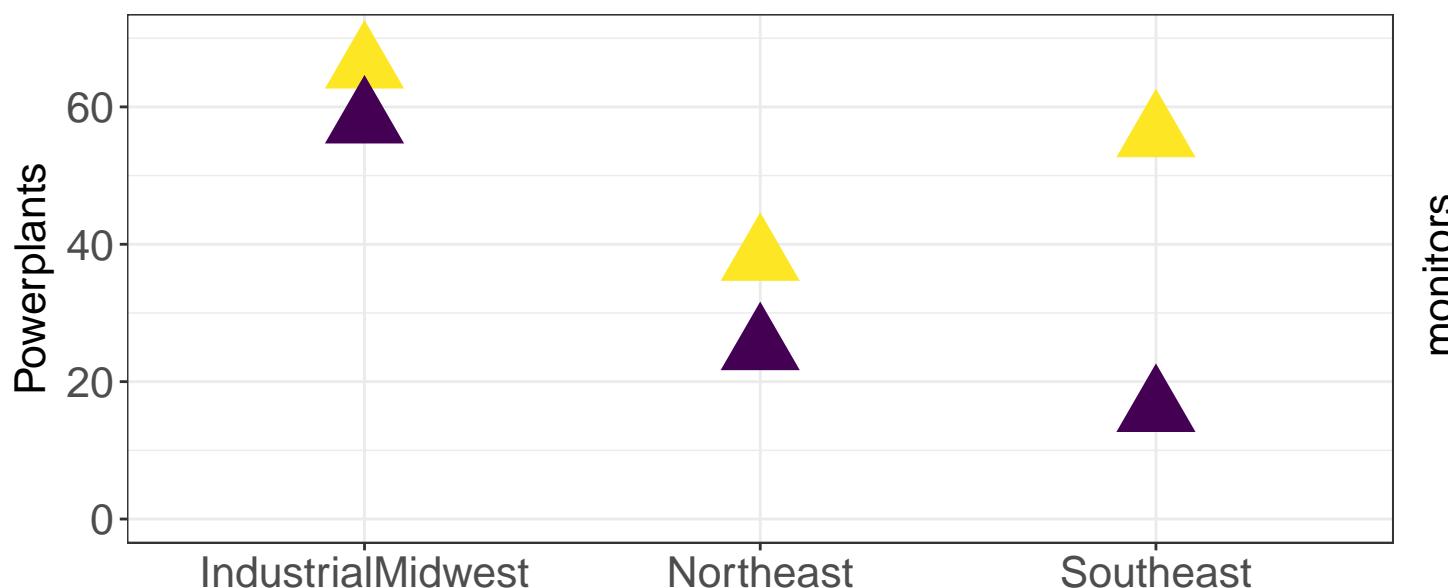
Distance to Source (km)    750–1000    500–750    250–500    0–250

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

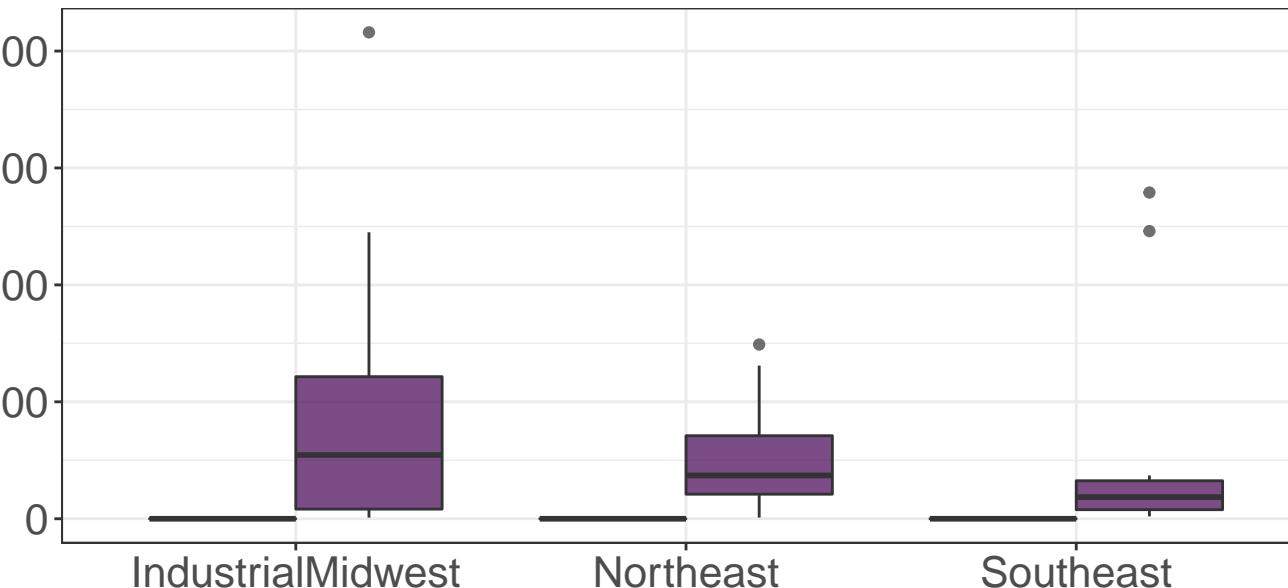
Distance to Source (km)    750–1000    500–750    250–500    0–250

# Why do some power plants have linked monitors and others do not?

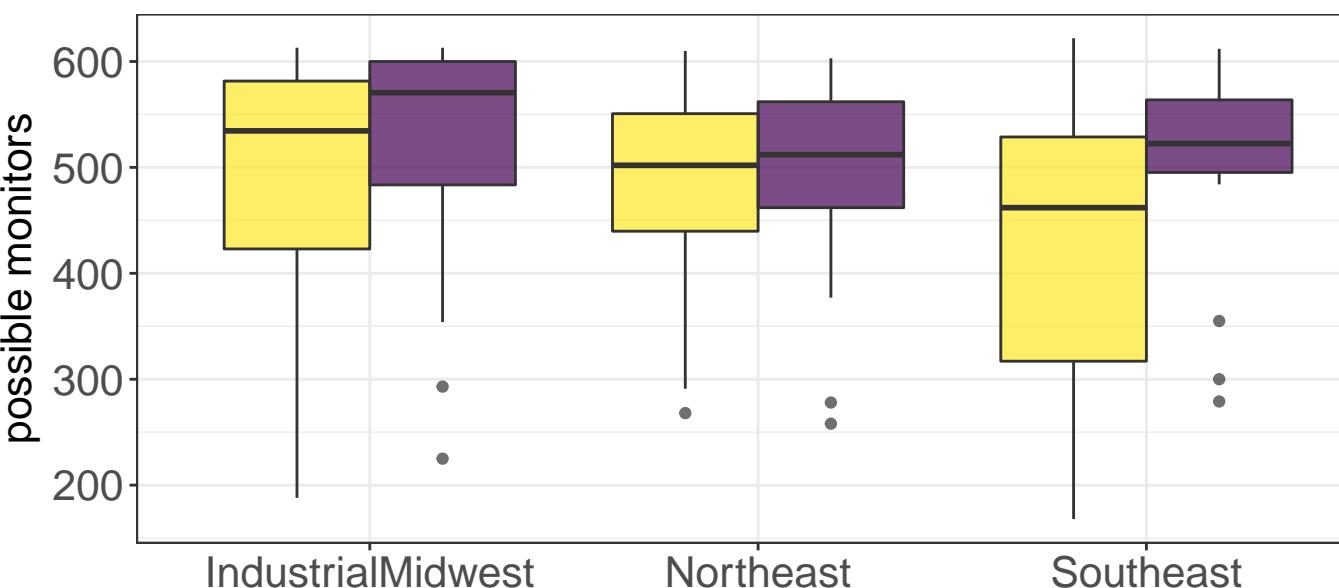
Number of powerplants



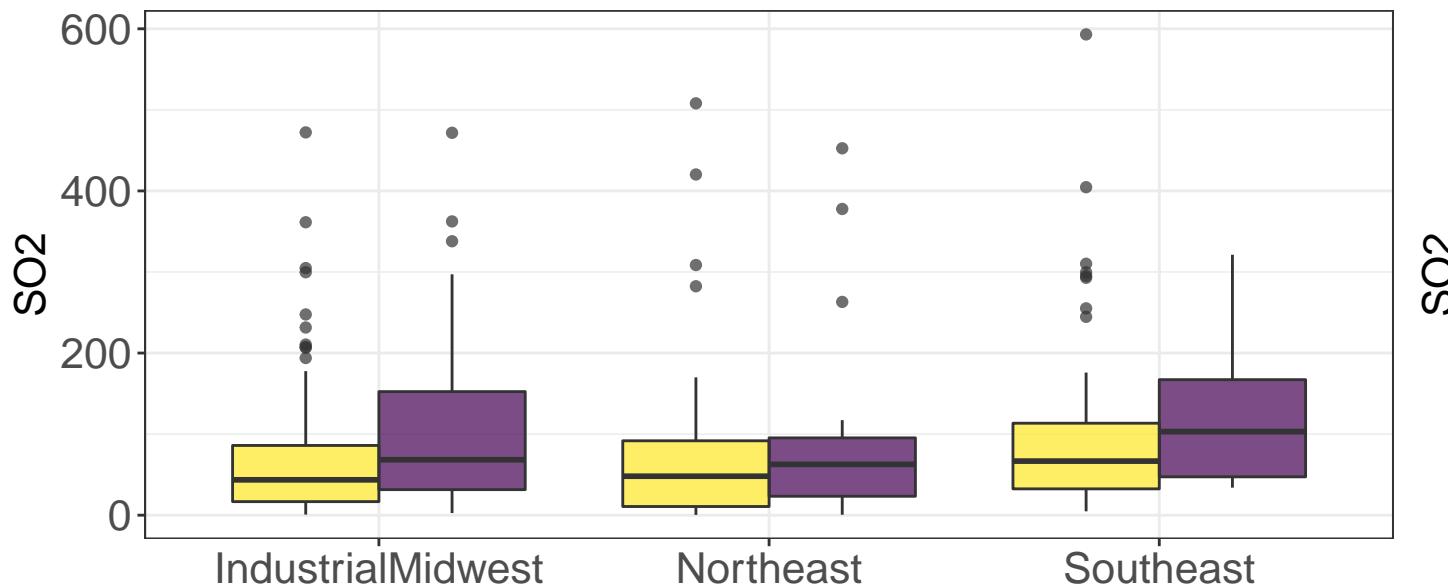
Number of linked monitors



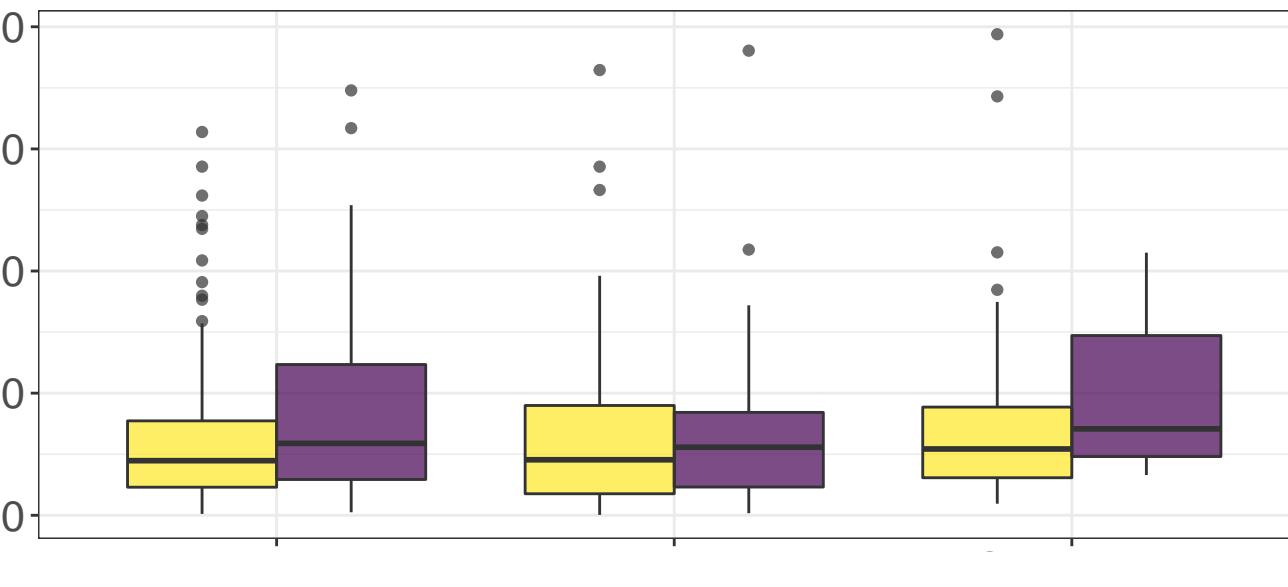
Number of possible linked monitors



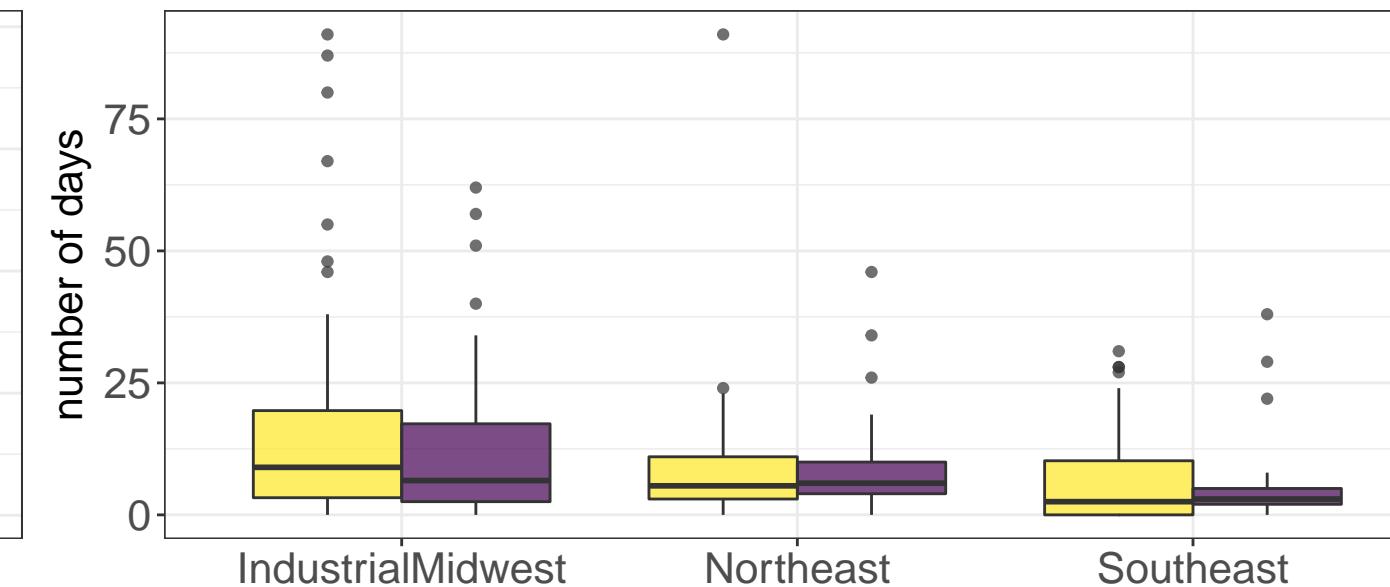
Average daily emissions



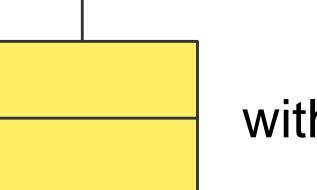
Standard deviation in daily emissions



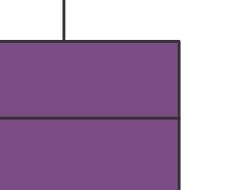
Number of days (out of 91 total) with missing emissions data



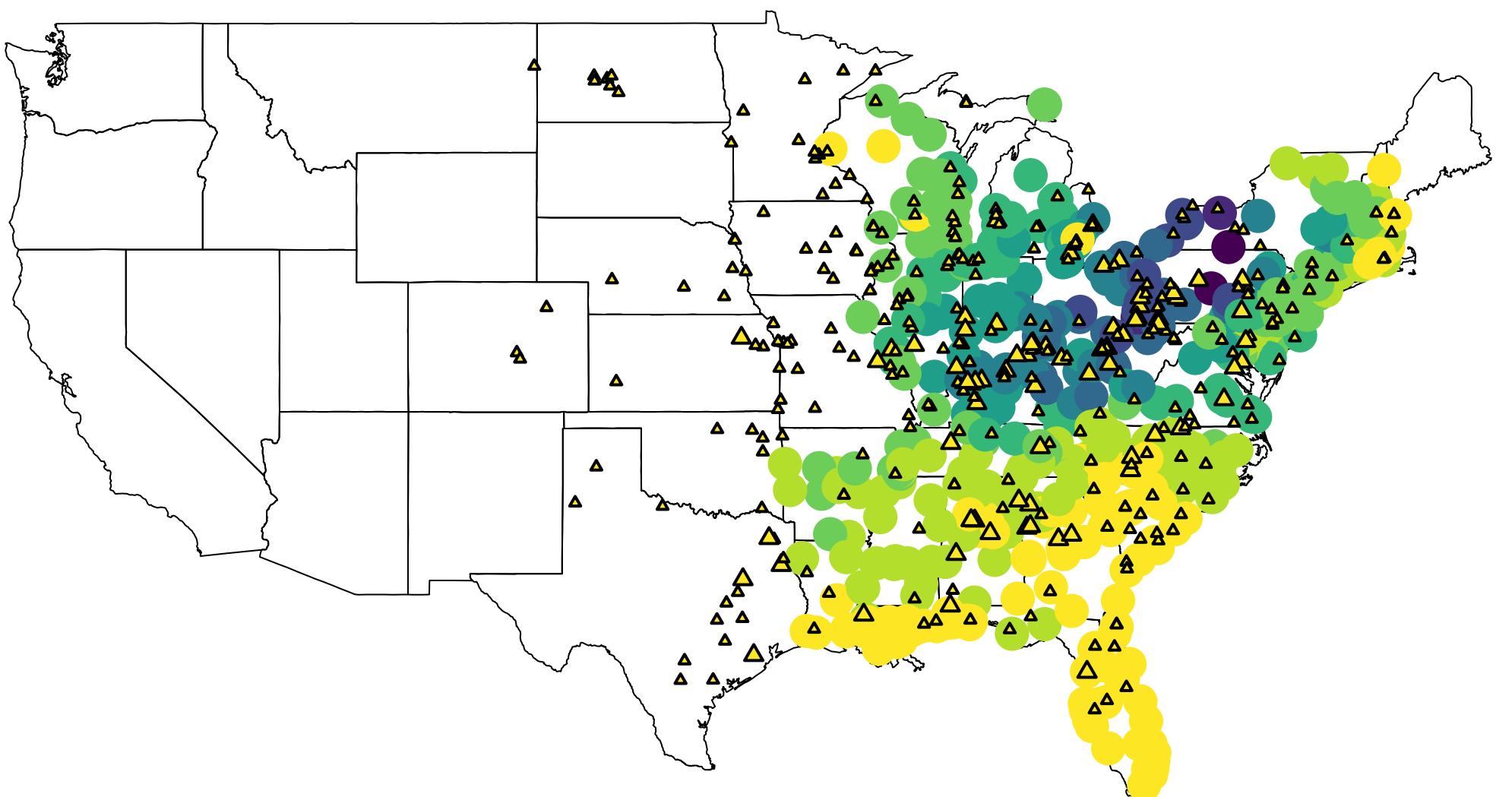
Powerplants: without edges



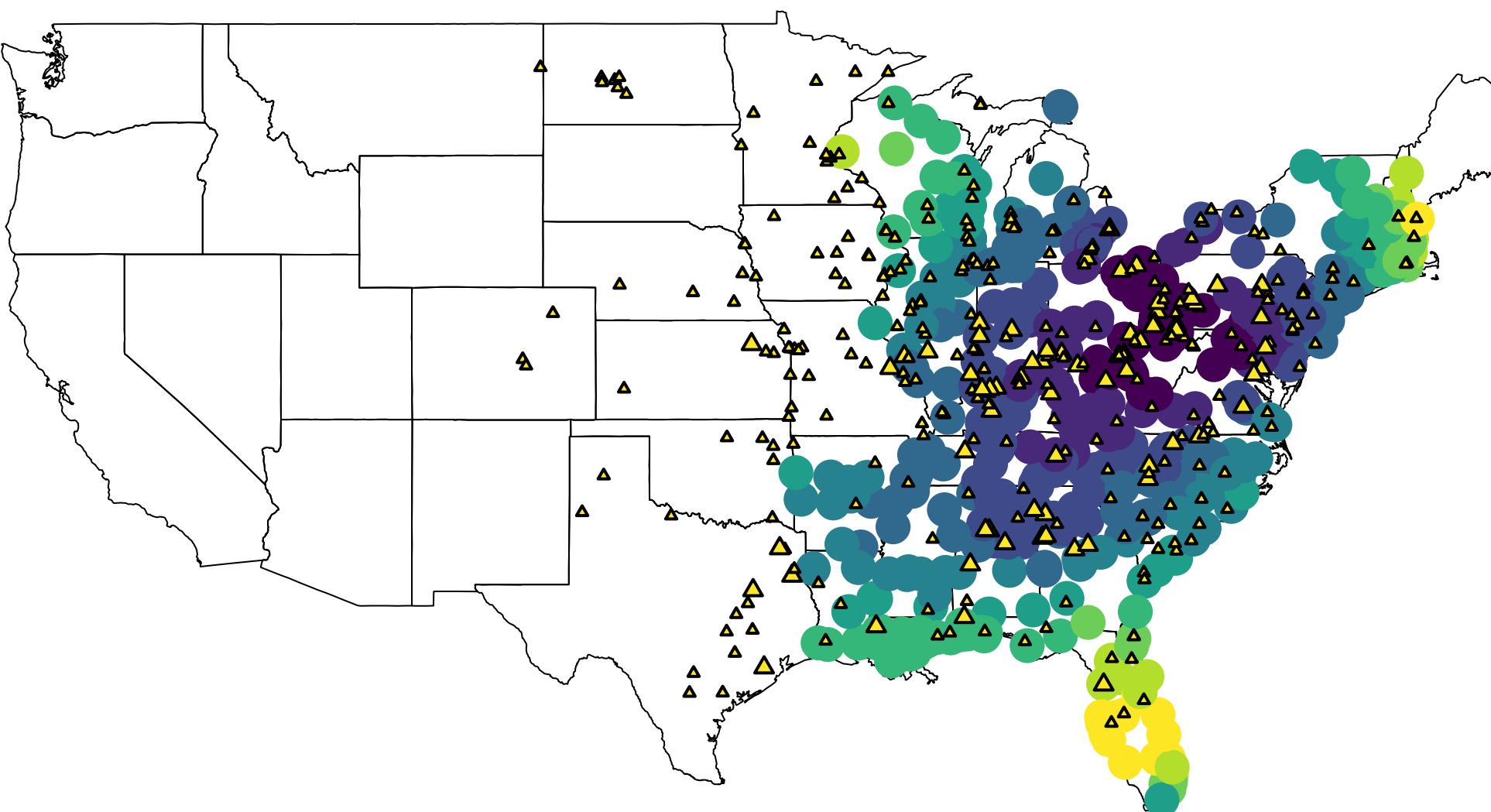
with edges



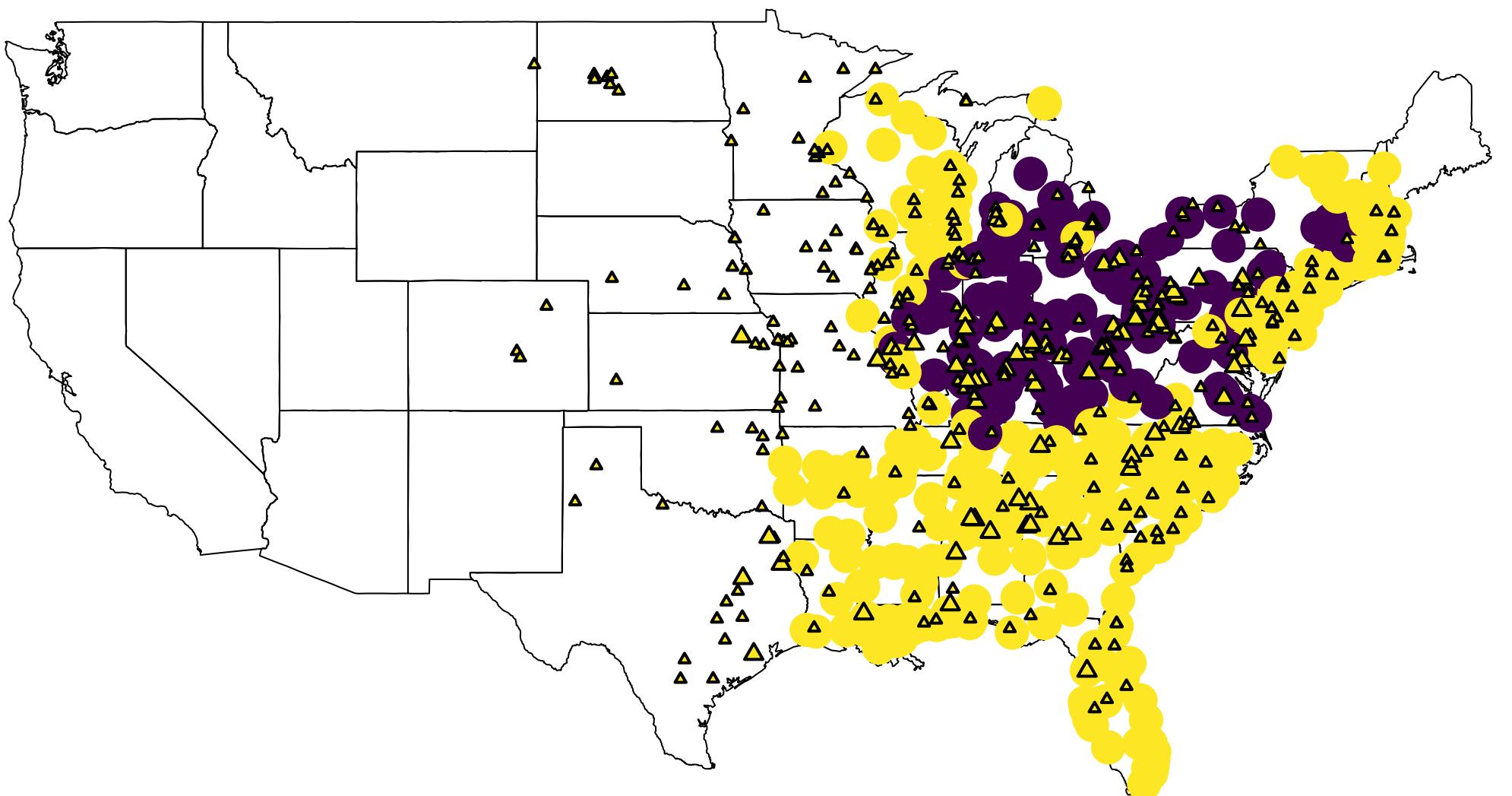
**Monitor exposure: sum of gams.coeff, summer 2005**



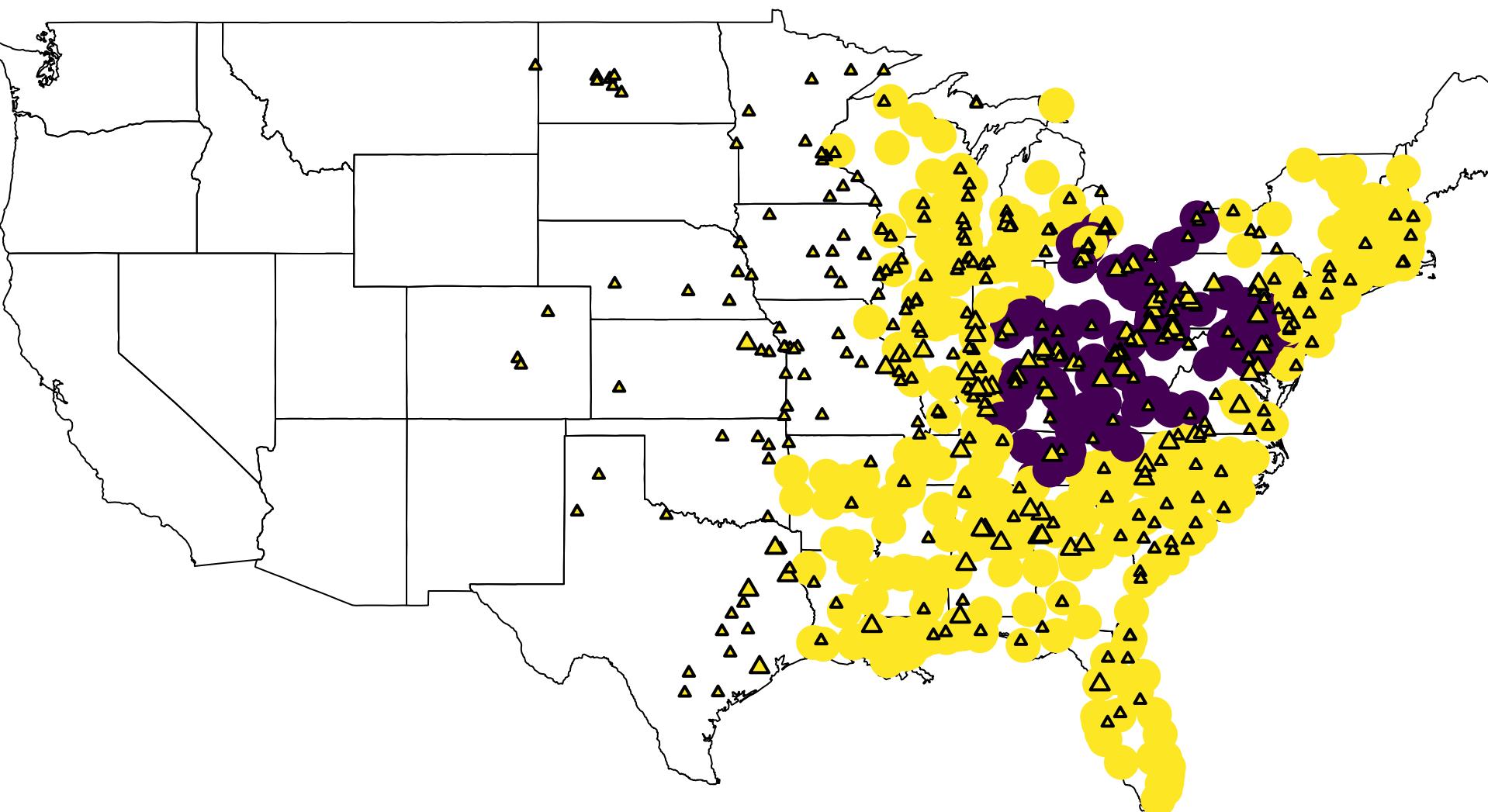
**Monitor exposure: avgPM, decomposed75 summer 2005**



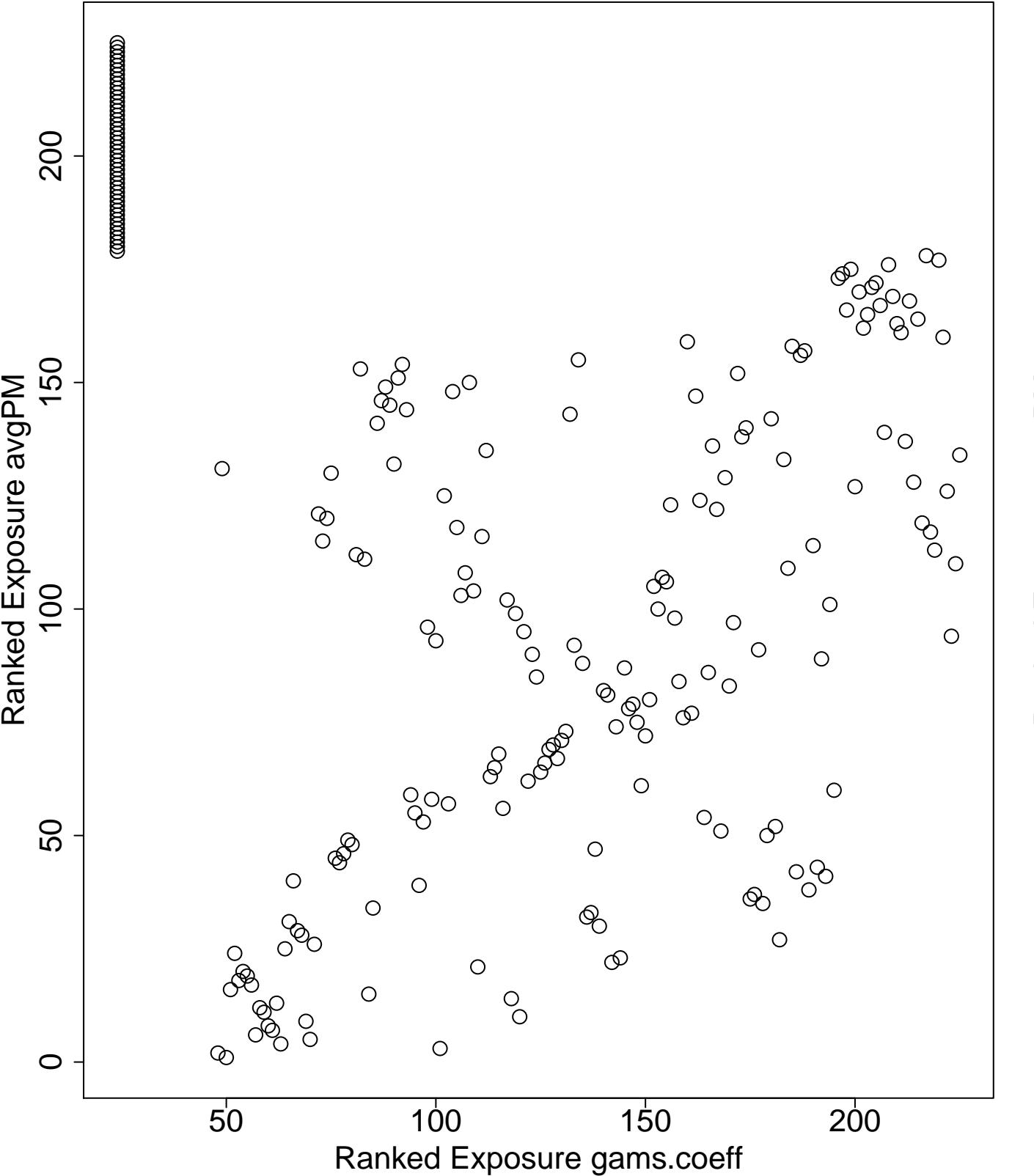
**Highest exposed: sum of gams.coeff, summer 2005**



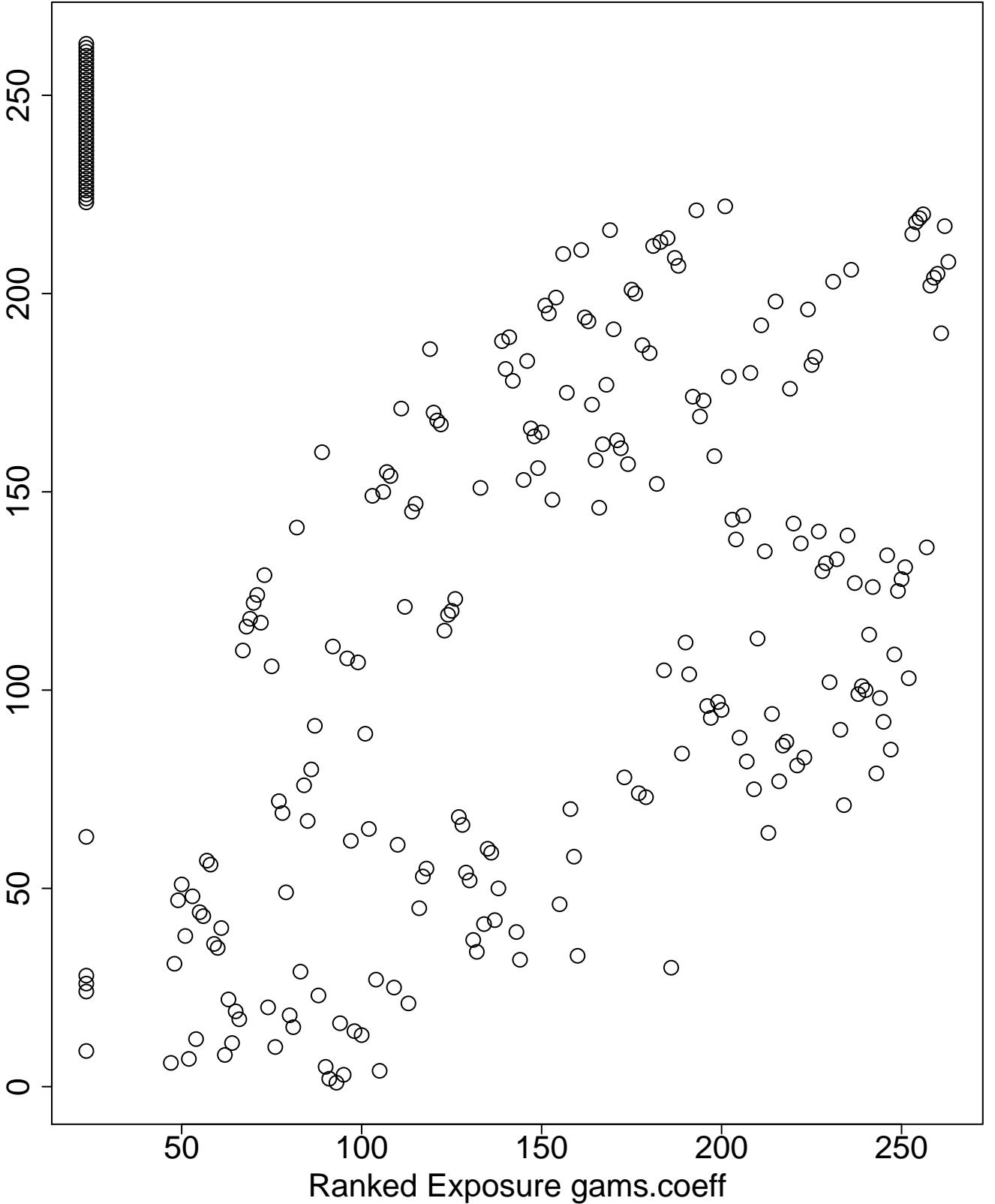
**Highest exposed: avgPM, decomposed75 summer 2005**



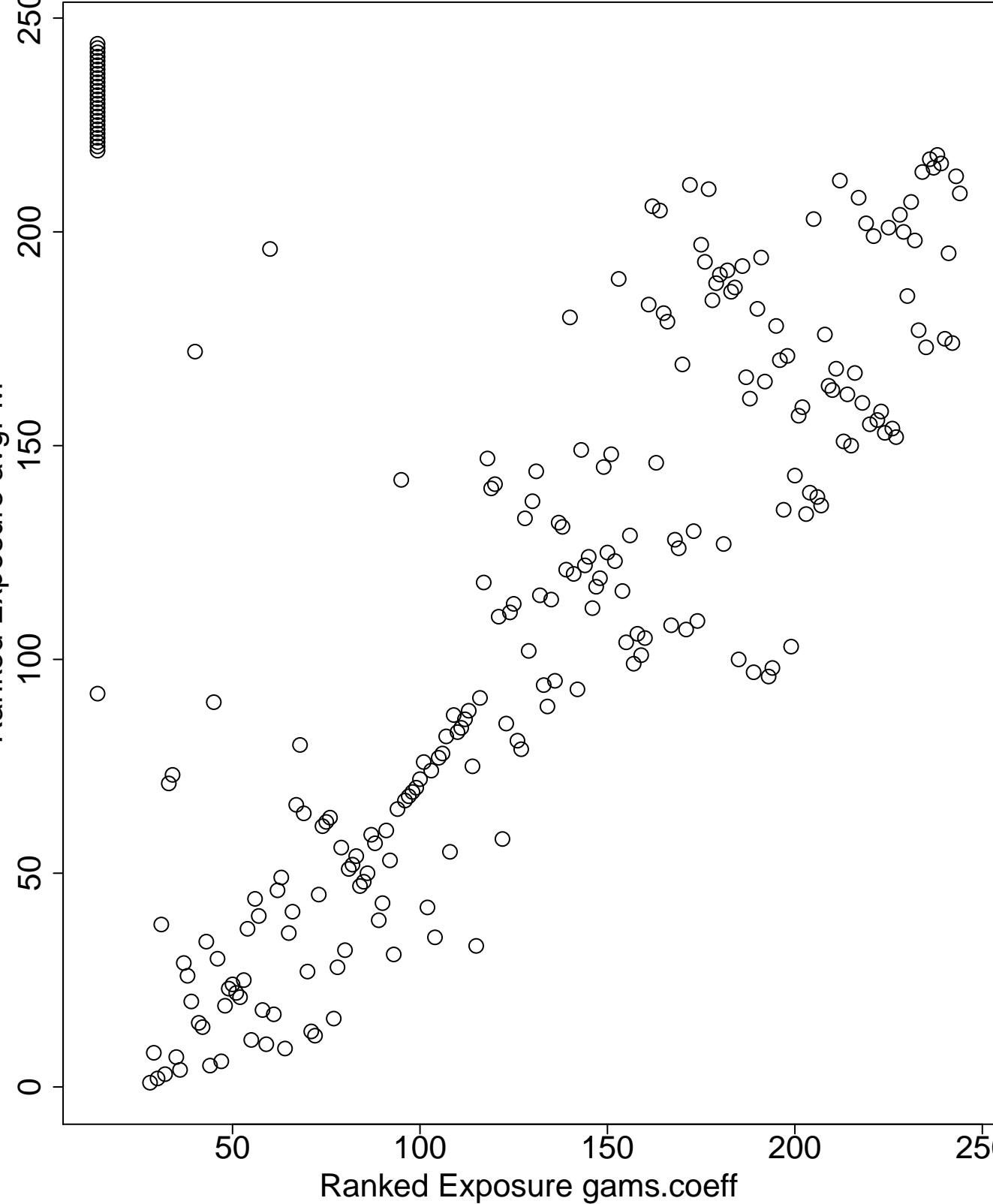
**Northeast correlation = 0.55**



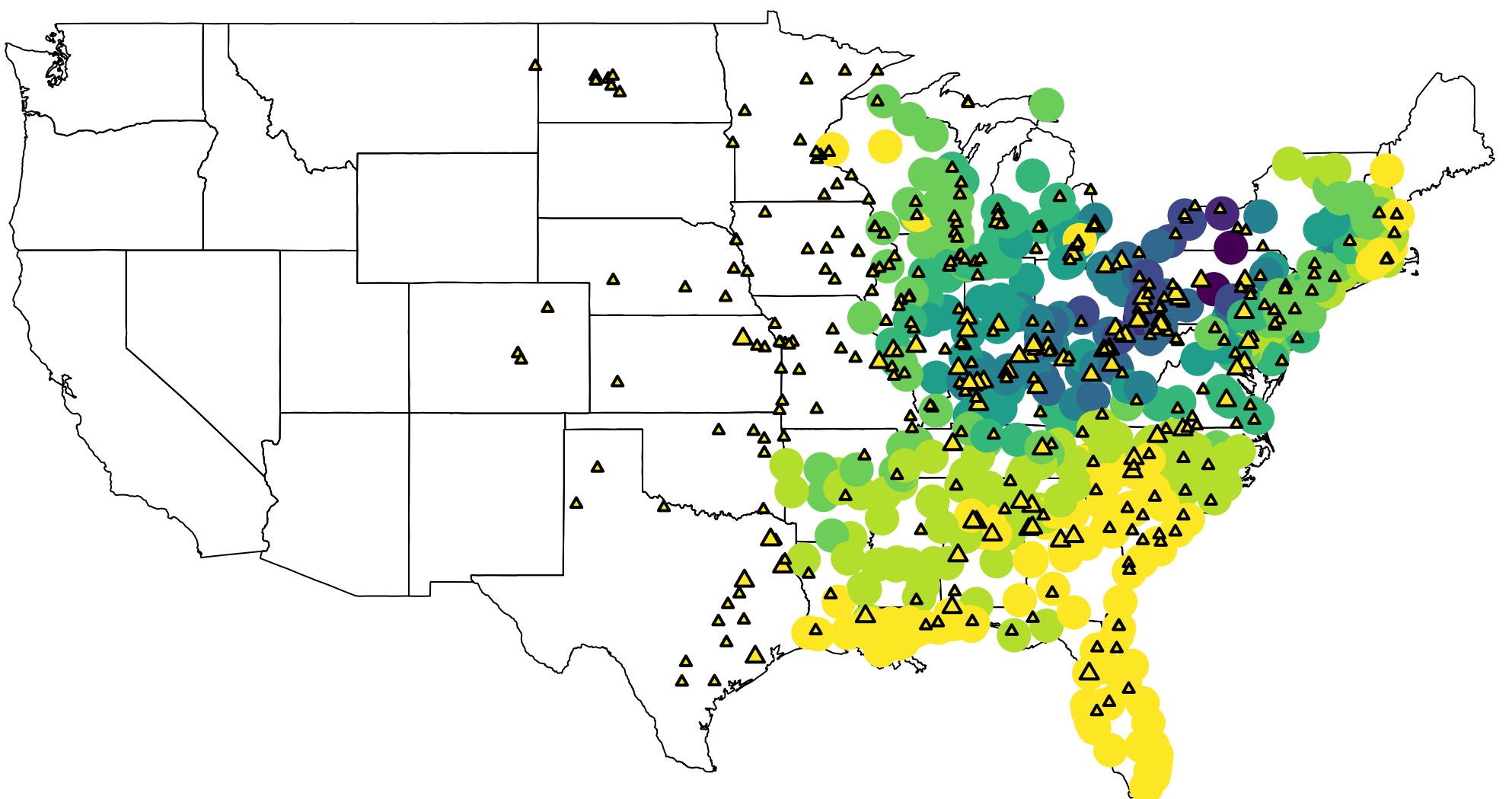
**Southeast correlation = 0.53**



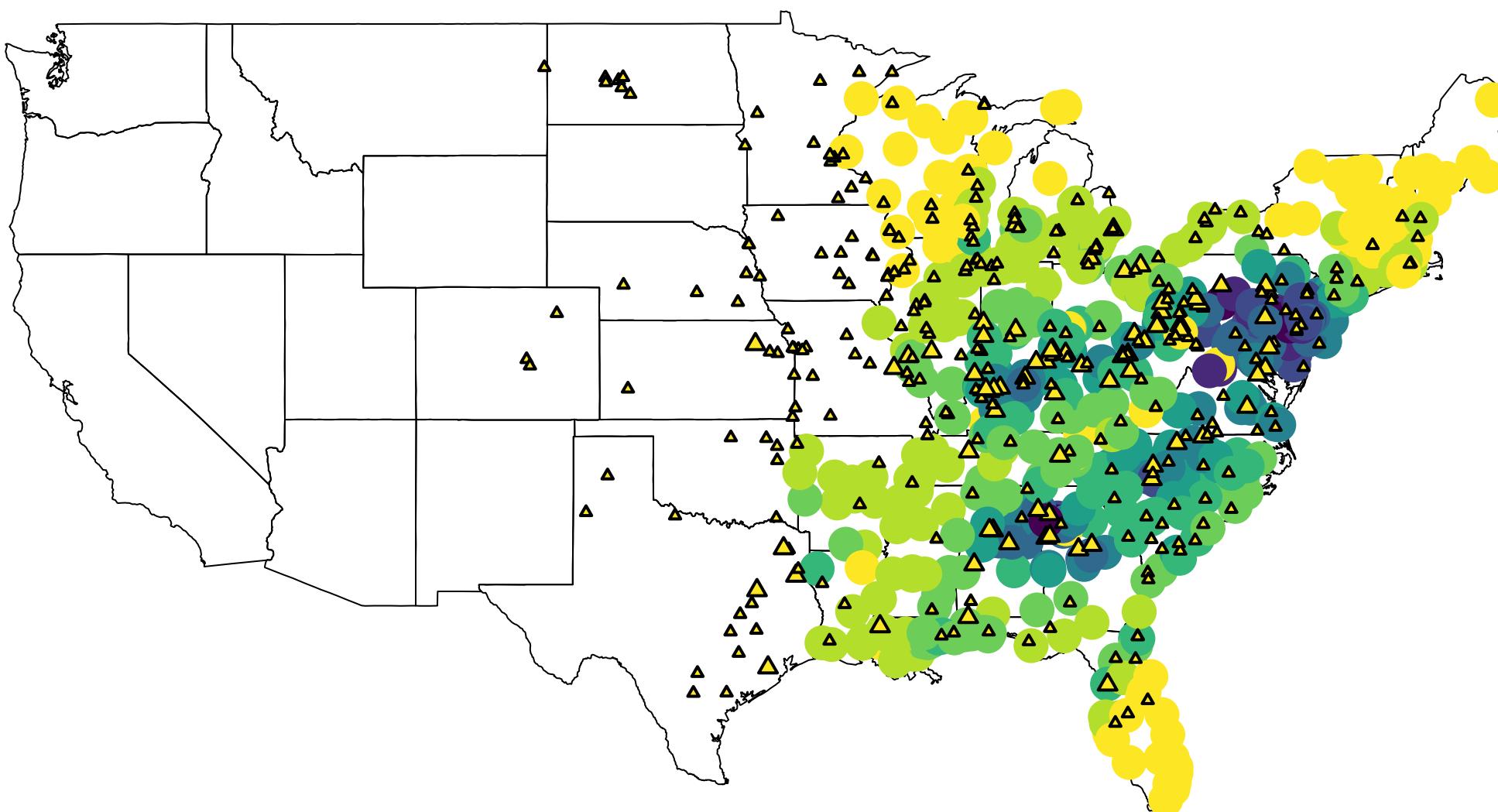
**IndustrialMidwest correlation = 0.87**



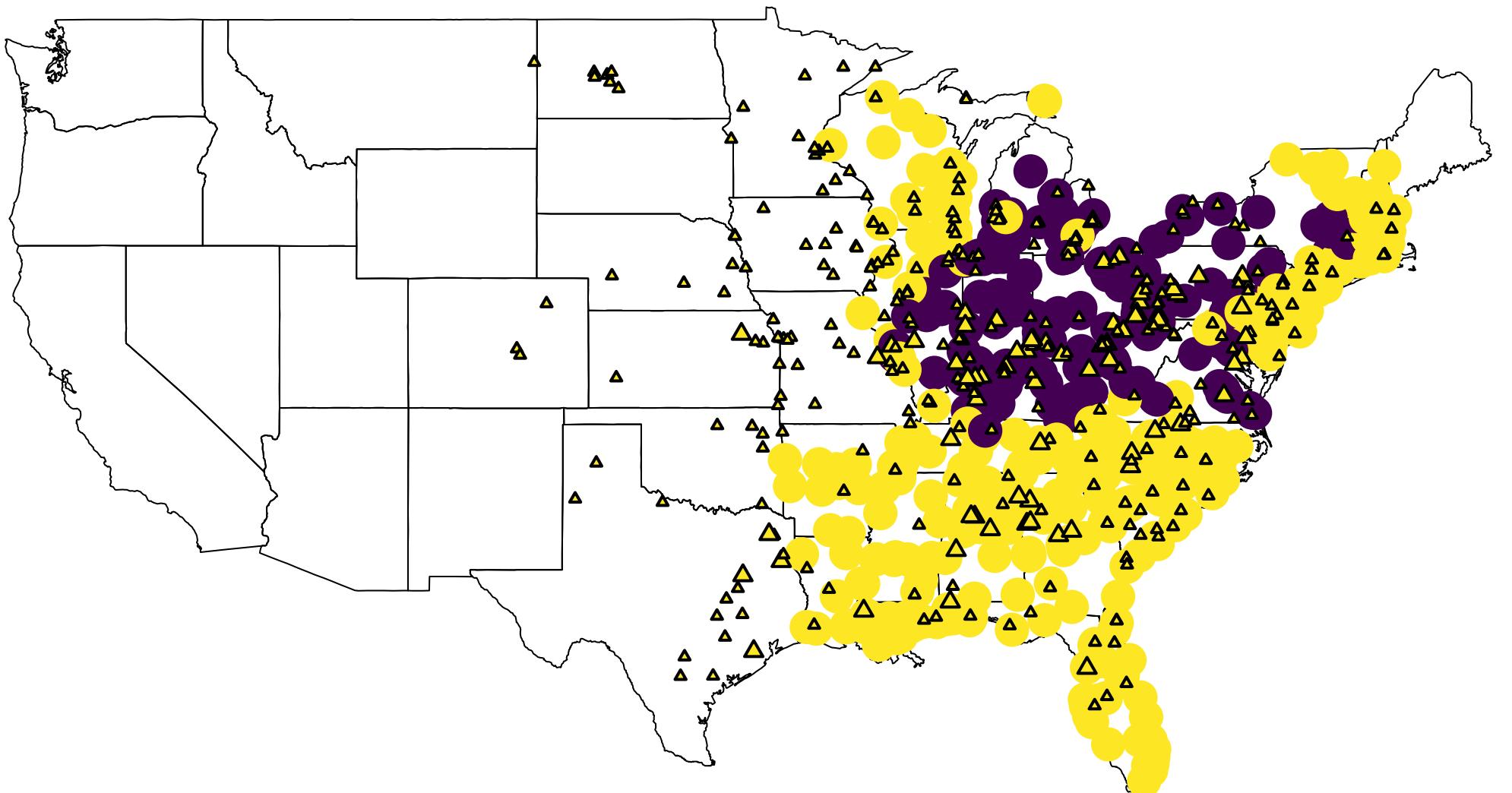
**Monitor exposure: sum of gams.coeff, summer 2005**



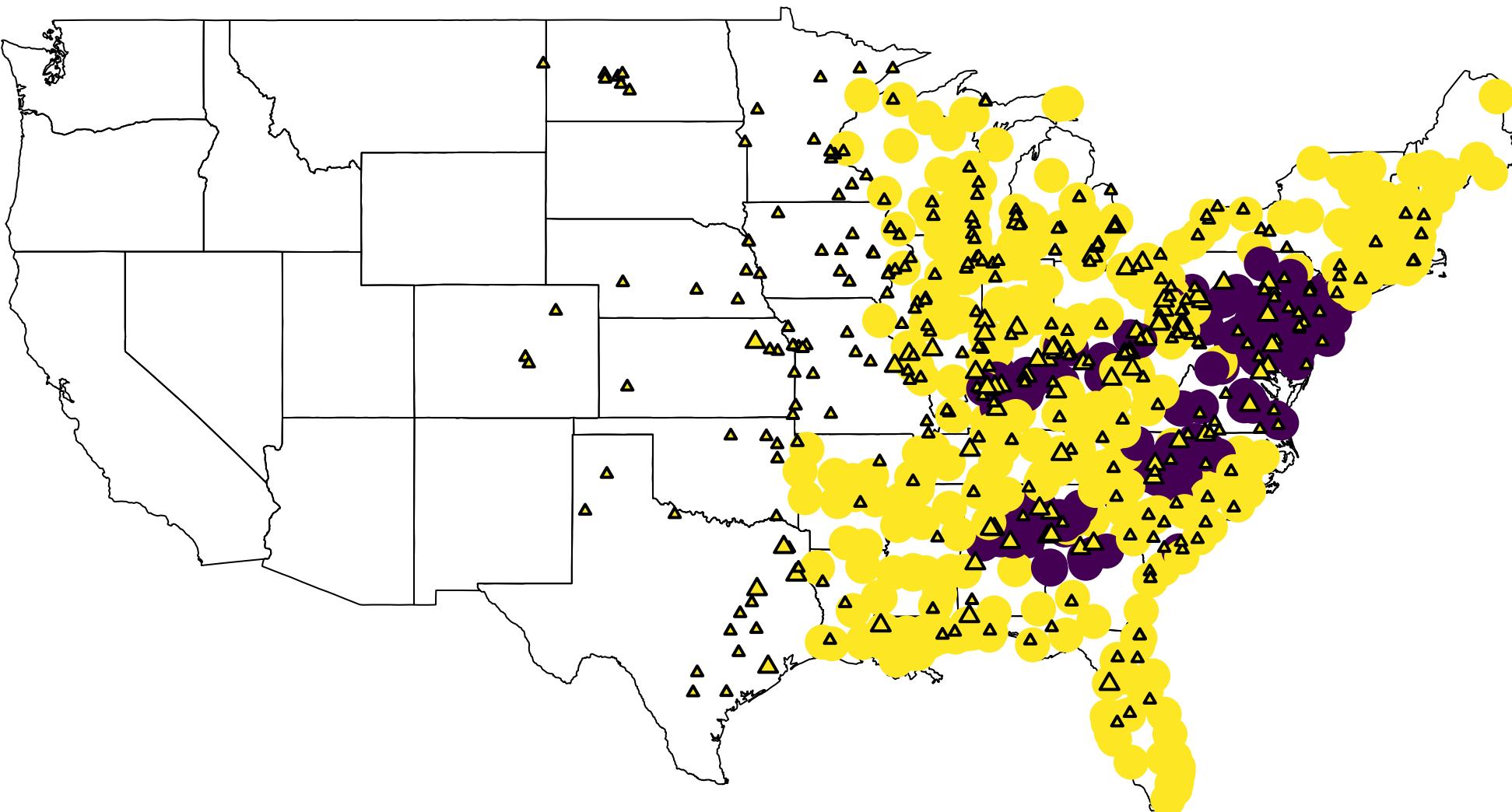
**Monitor exposure: annual coal emissions (InMAP)**

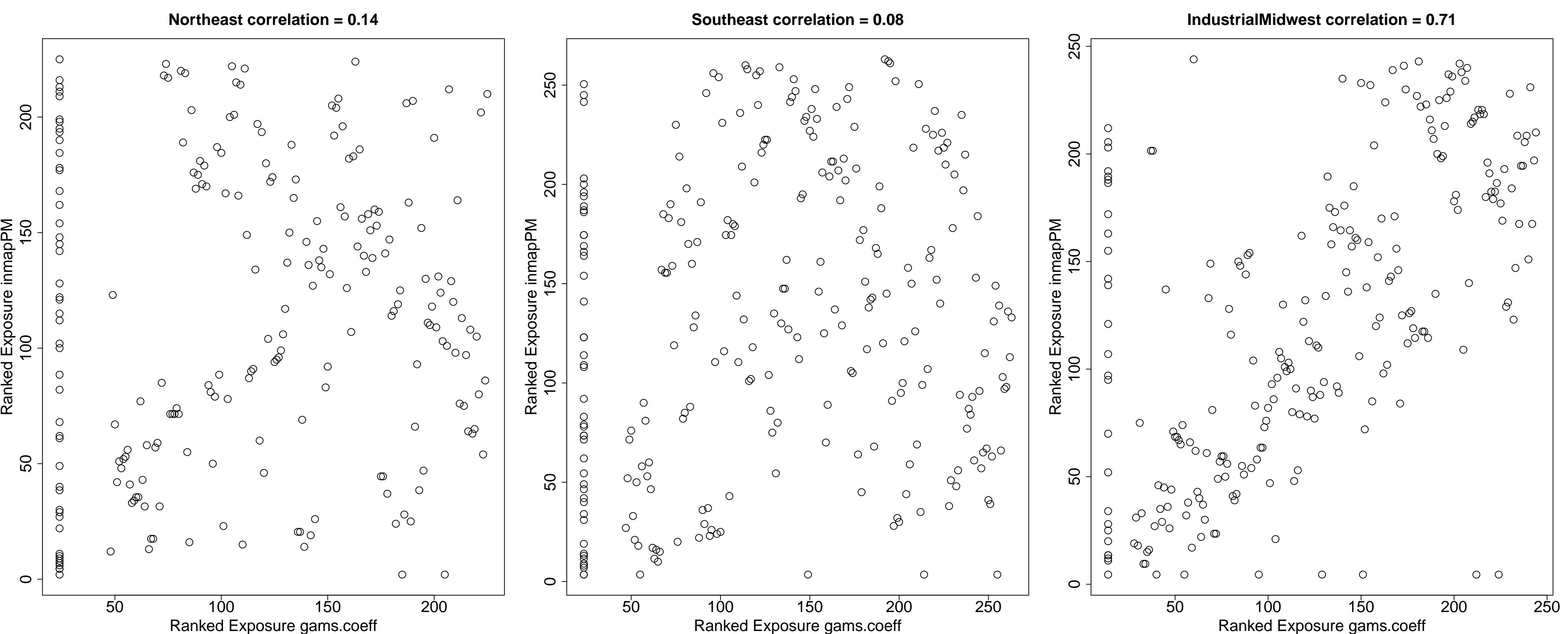


**Highest exposed: sum of gams.coeff, summer 2005**

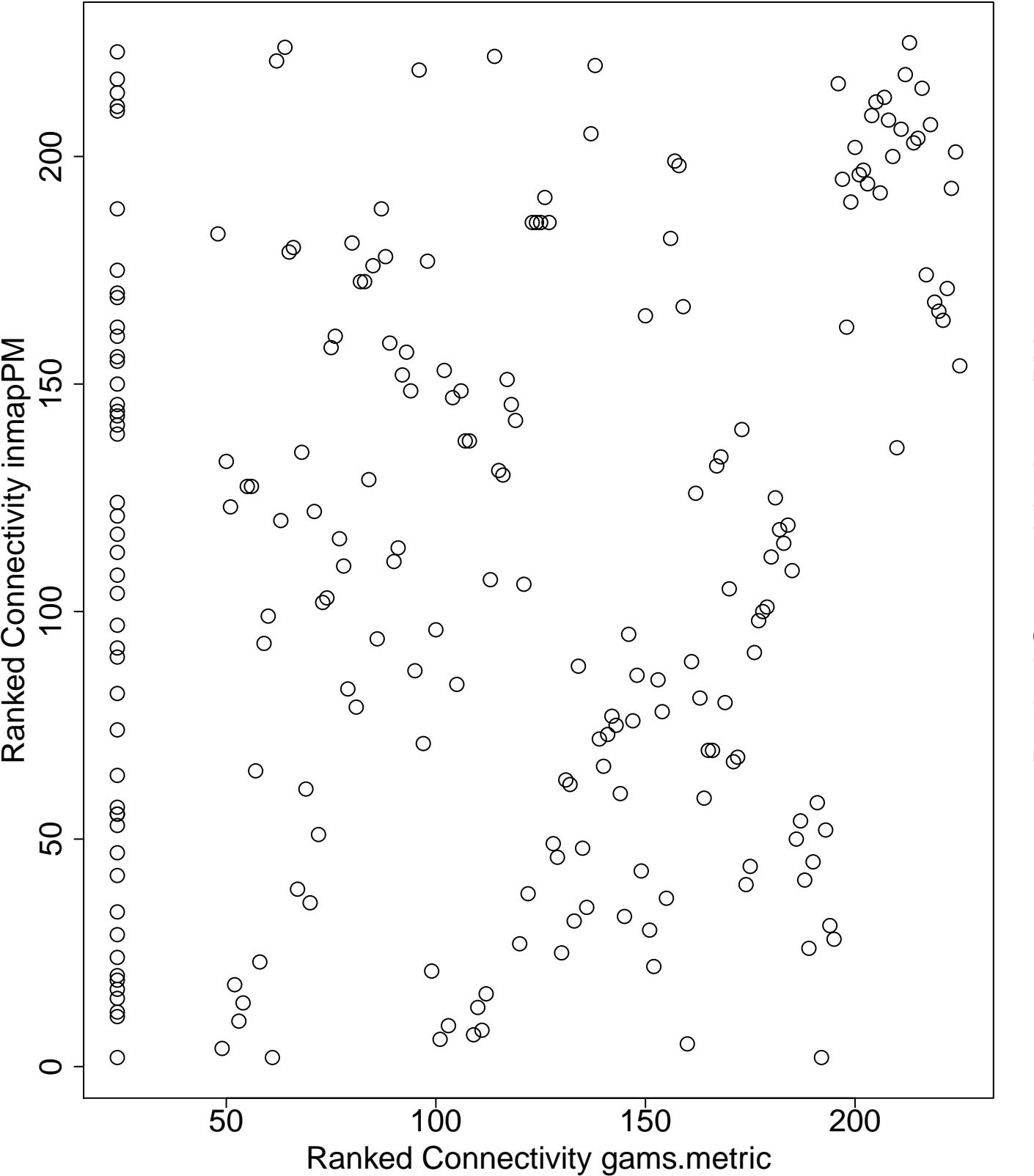


**Highest exposed: annual coal emissions (InMAP)**

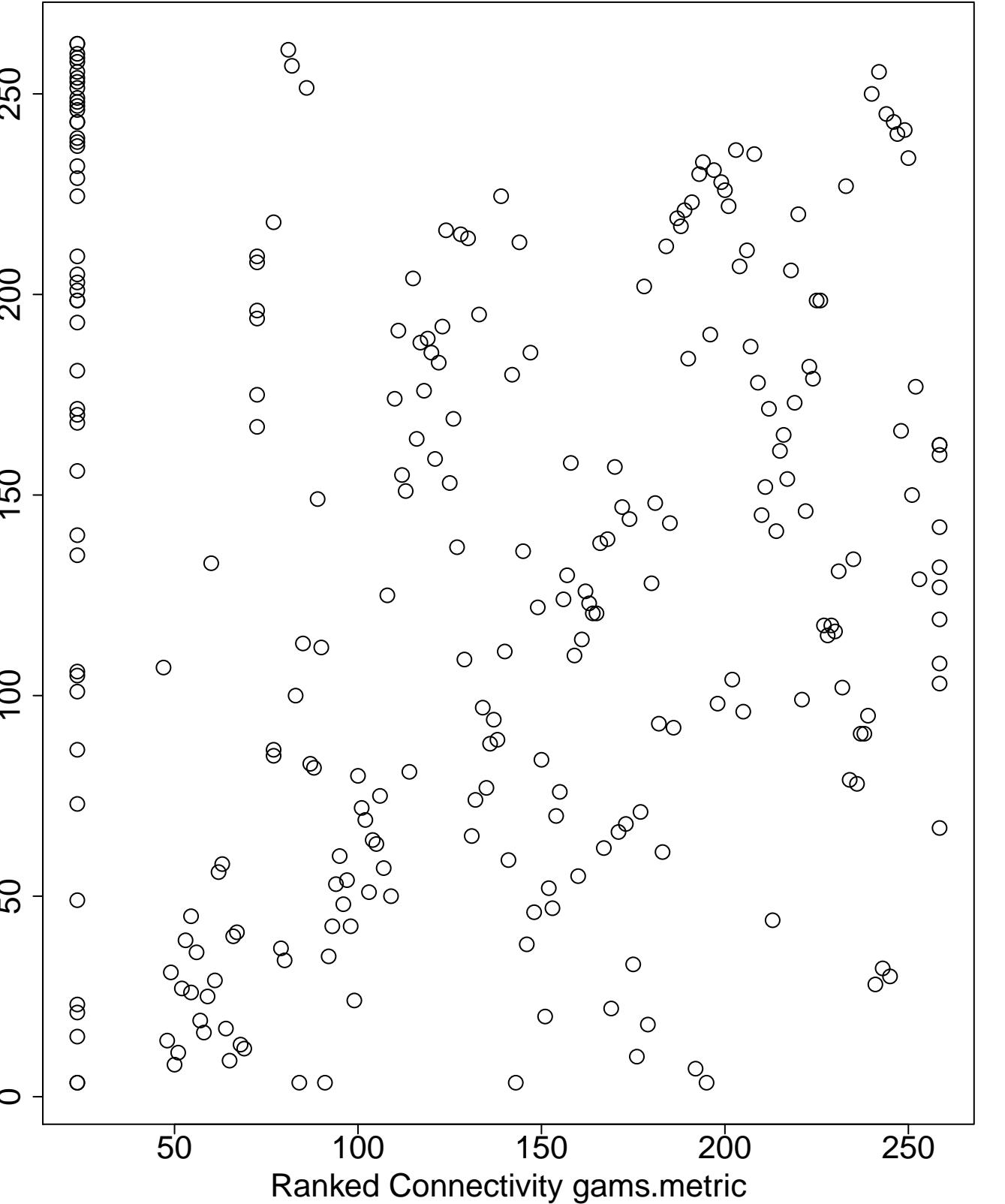




**Northeast correlation = 0.18**



**Southeast correlation = 0.04**



**IndustrialMidwest correlation = 0.36**

