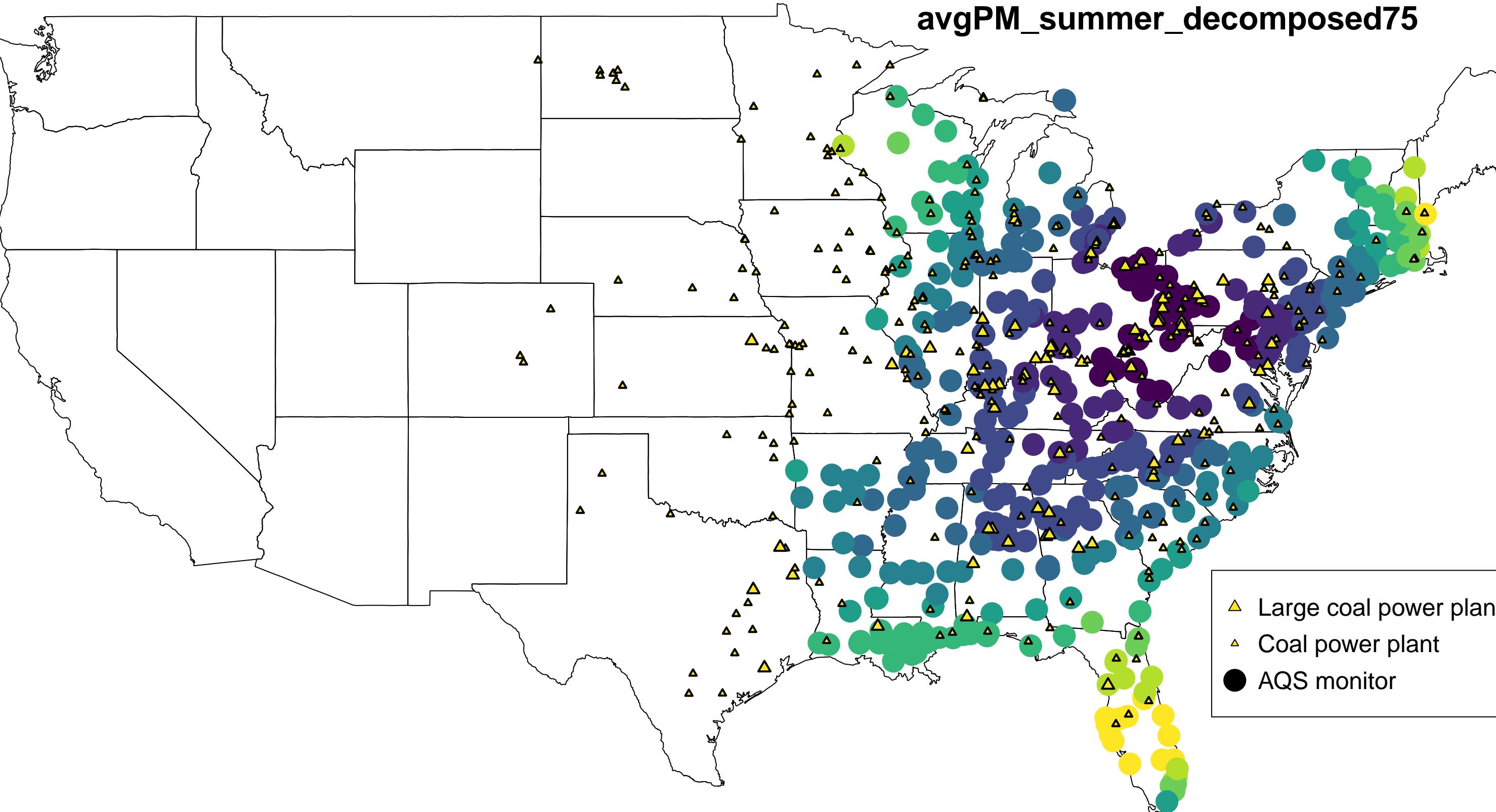


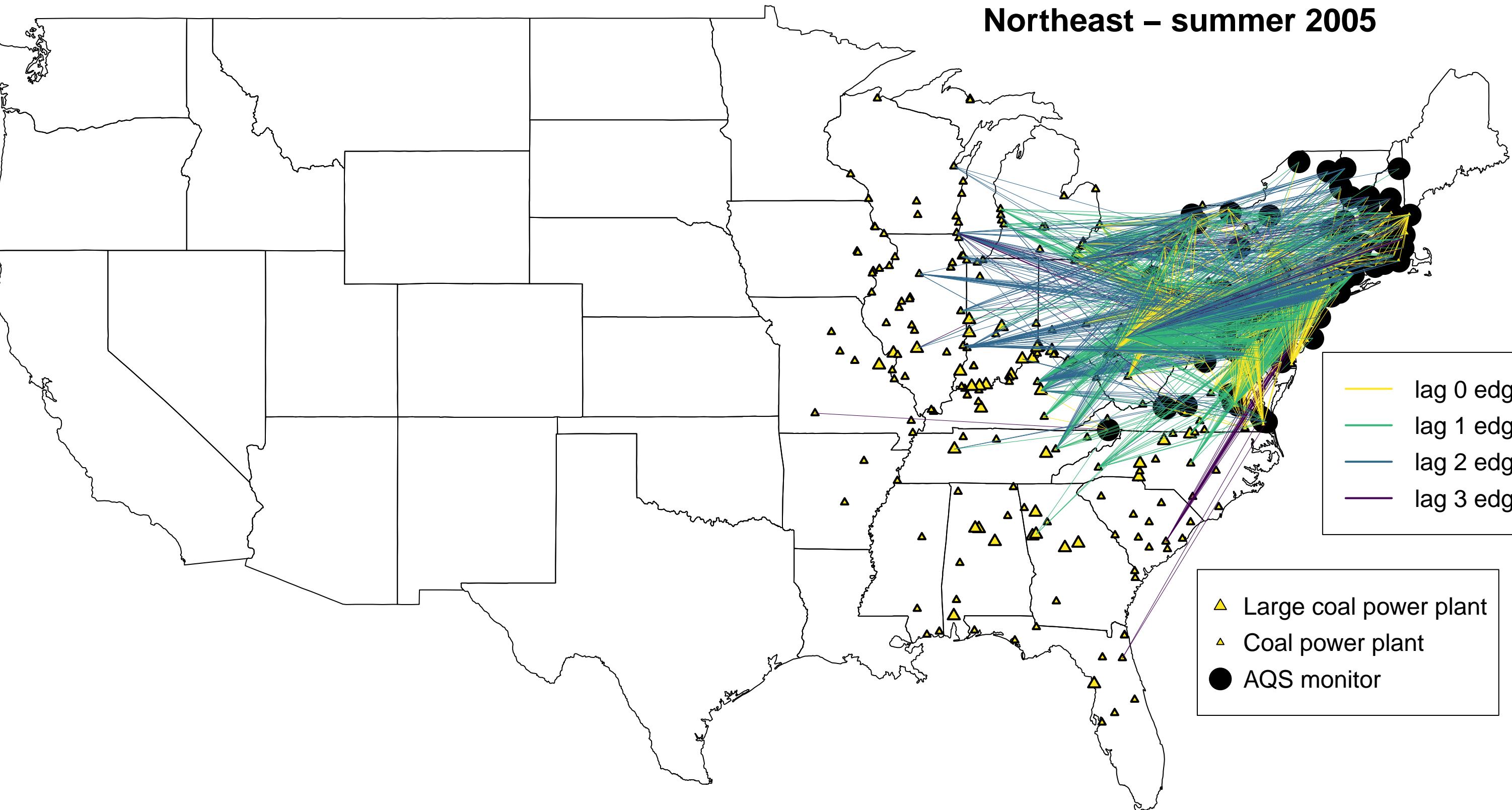
## Coal power plants and AQS monitors



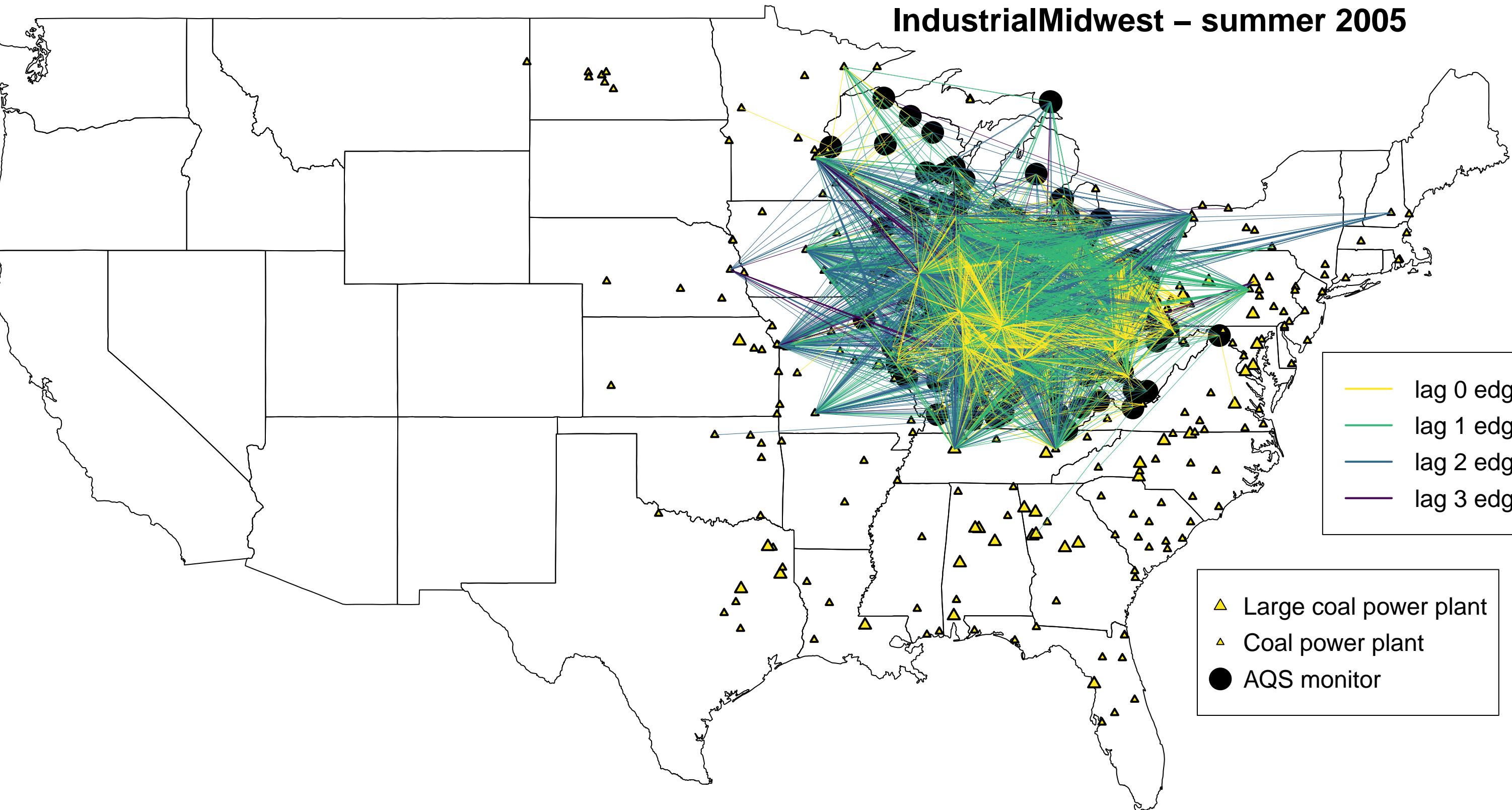
avgPM\_summer\_decomposed75



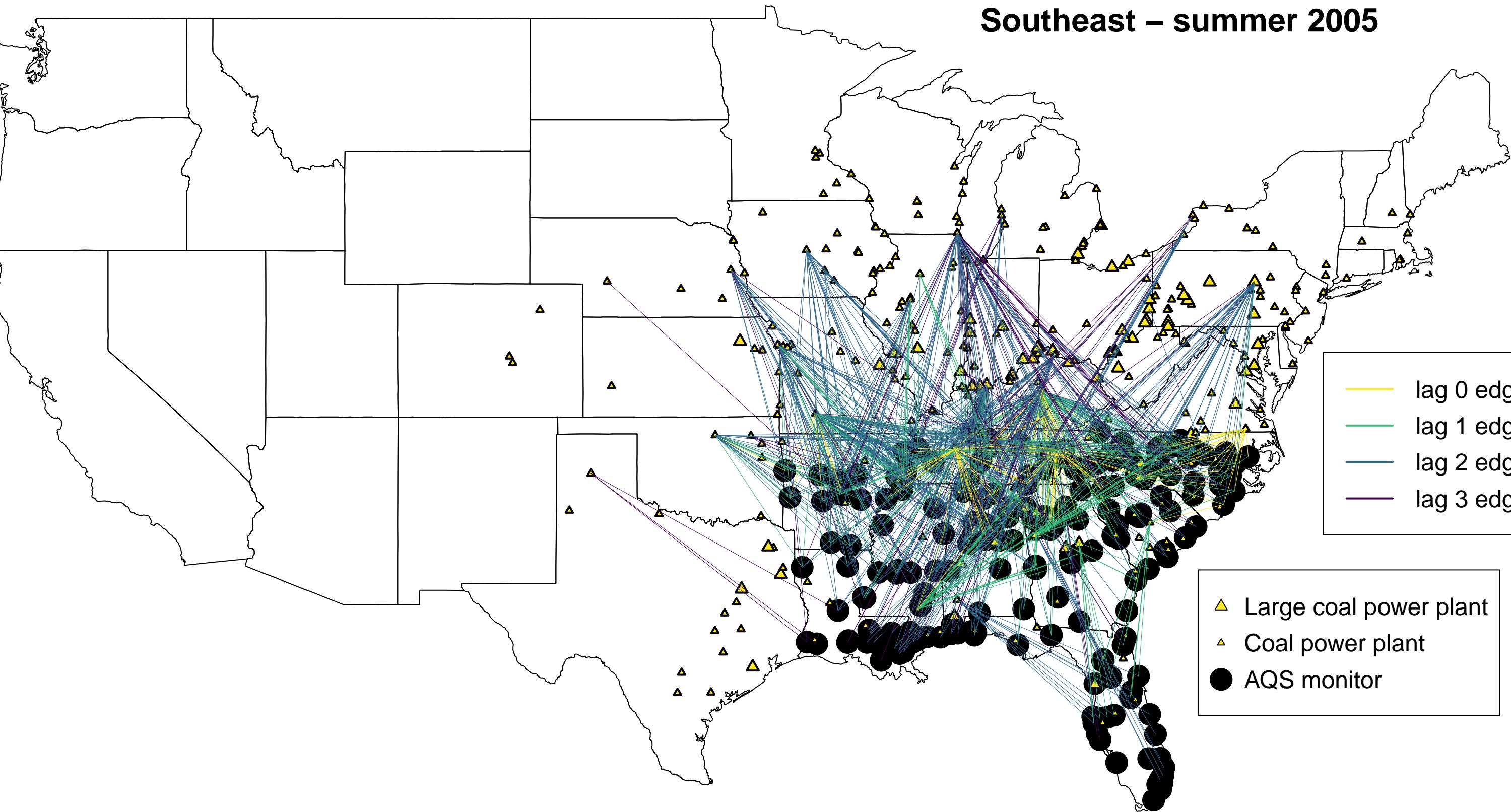
## Northeast – summer 2005



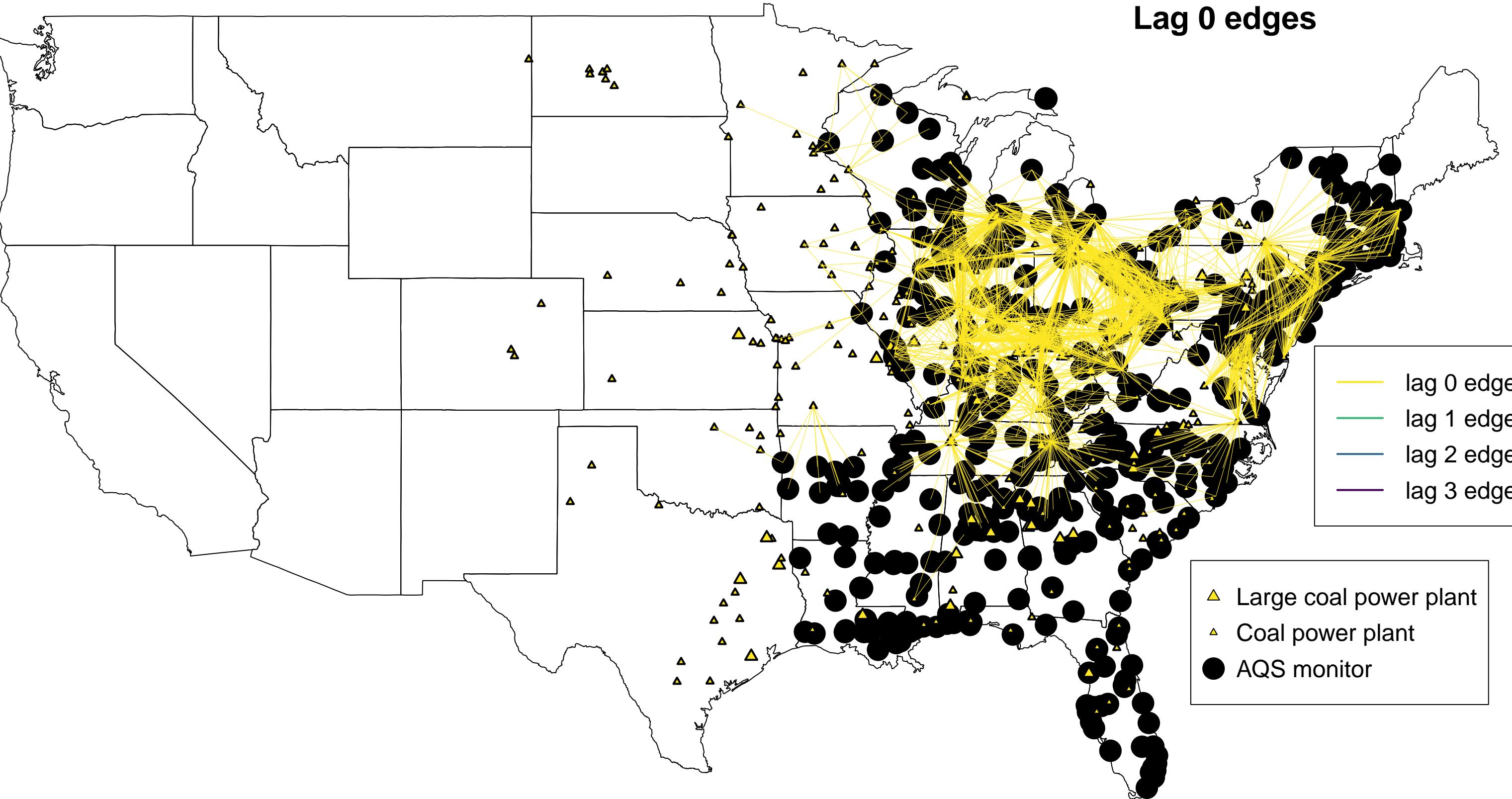
# IndustrialMidwest – summer 2005



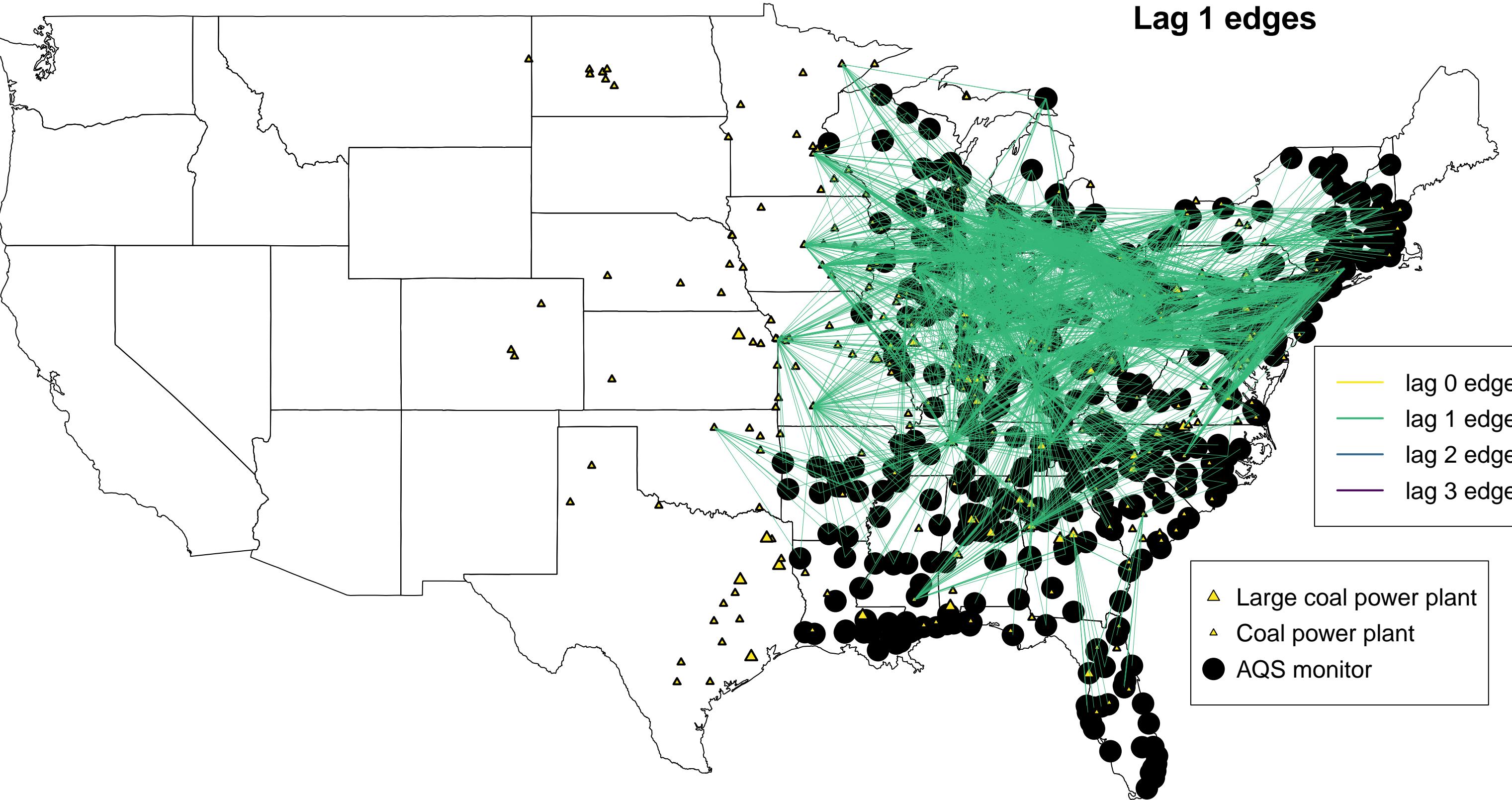
## Southeast – summer 2005



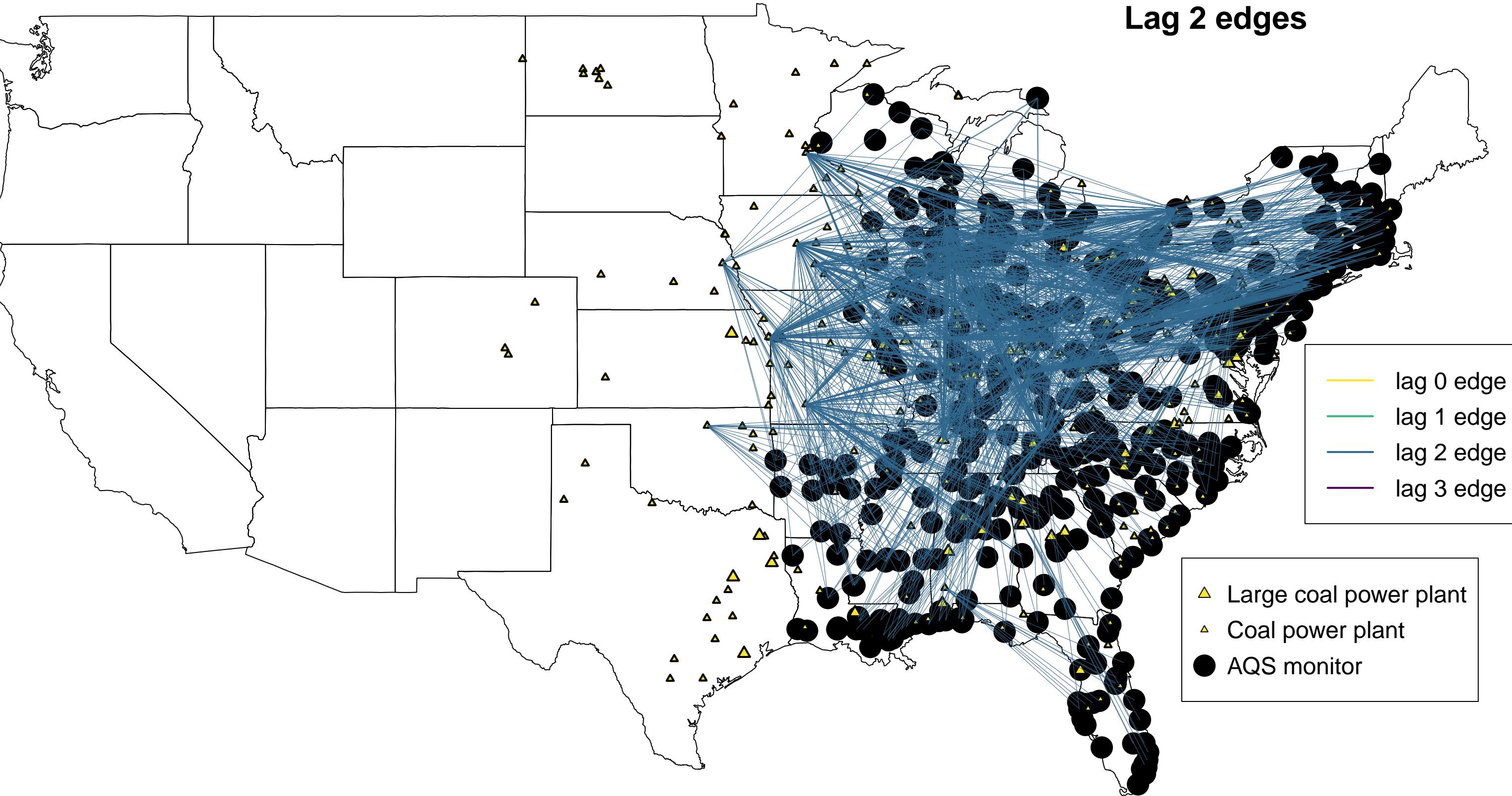
## Lag 0 edges



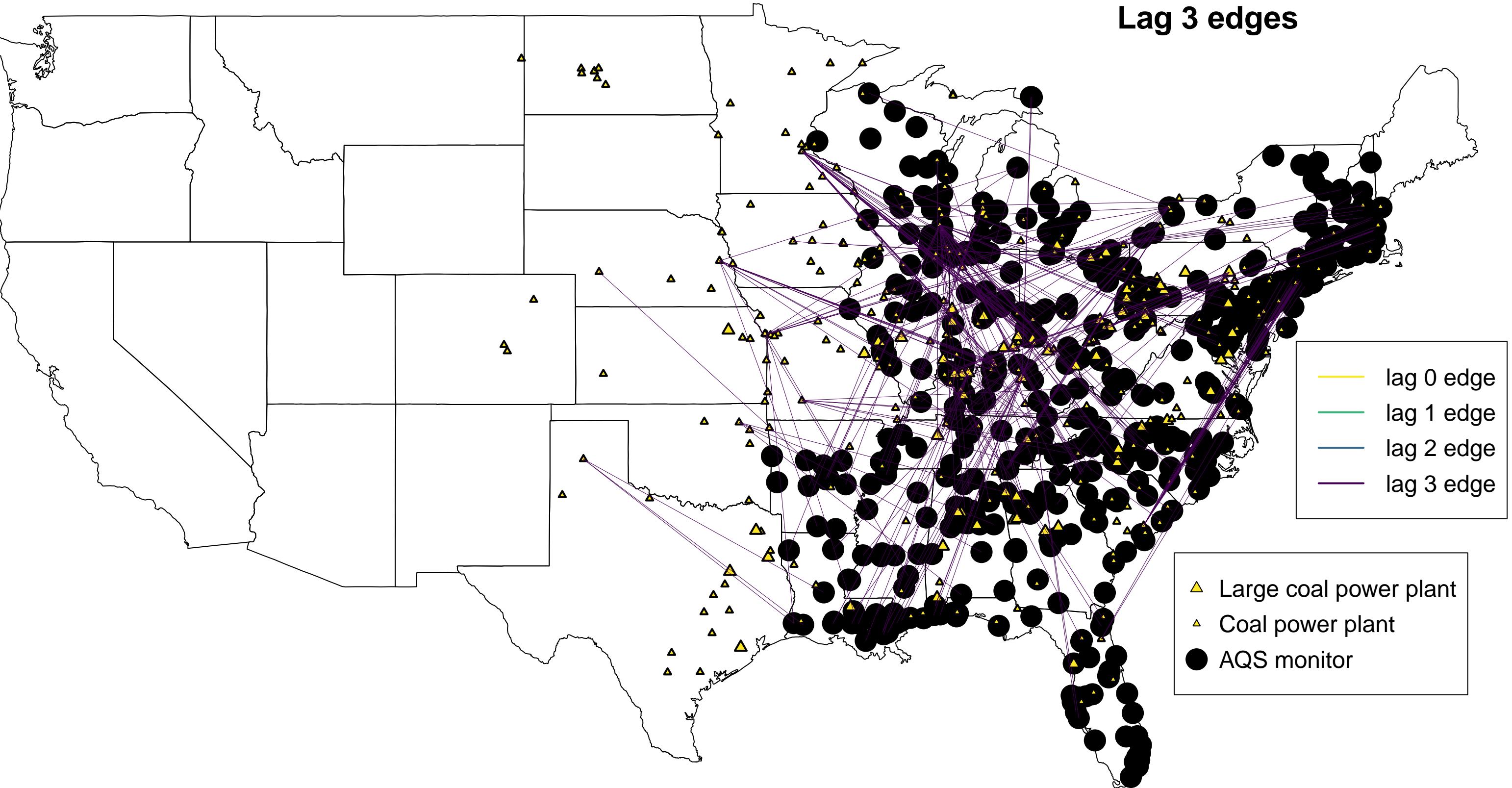
## Lag 1 edges

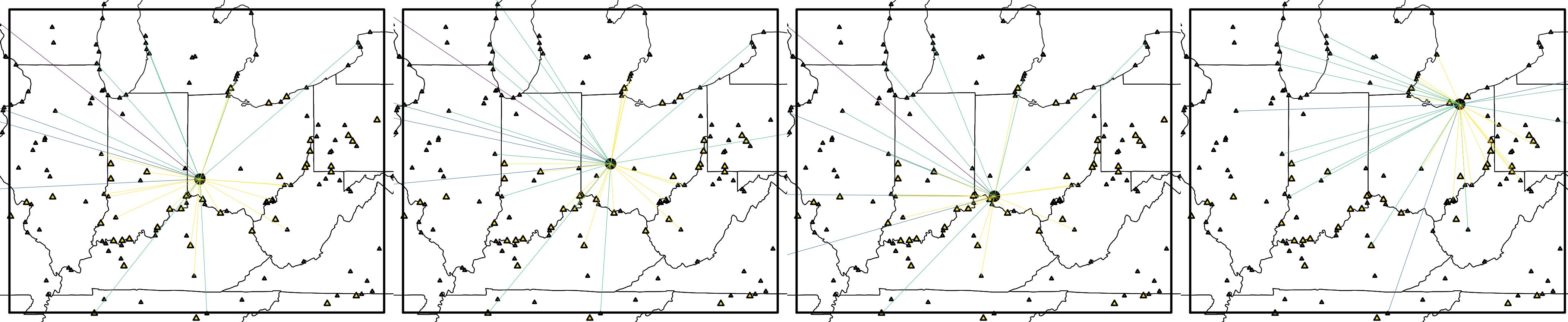


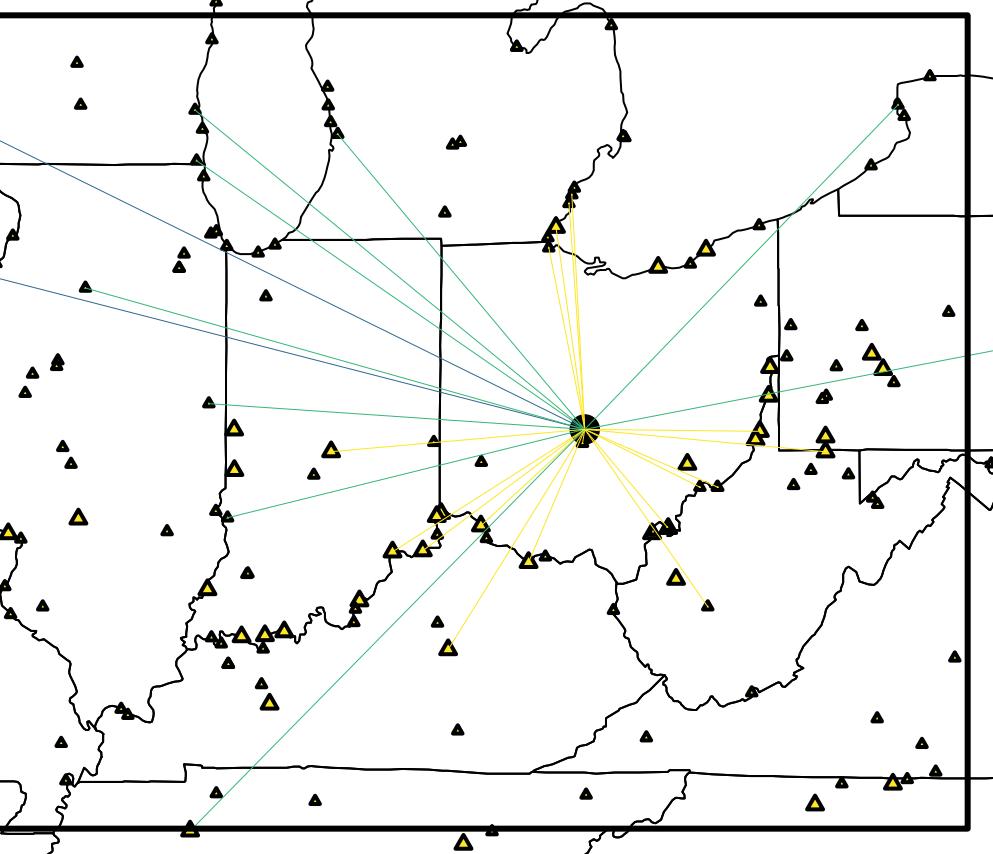
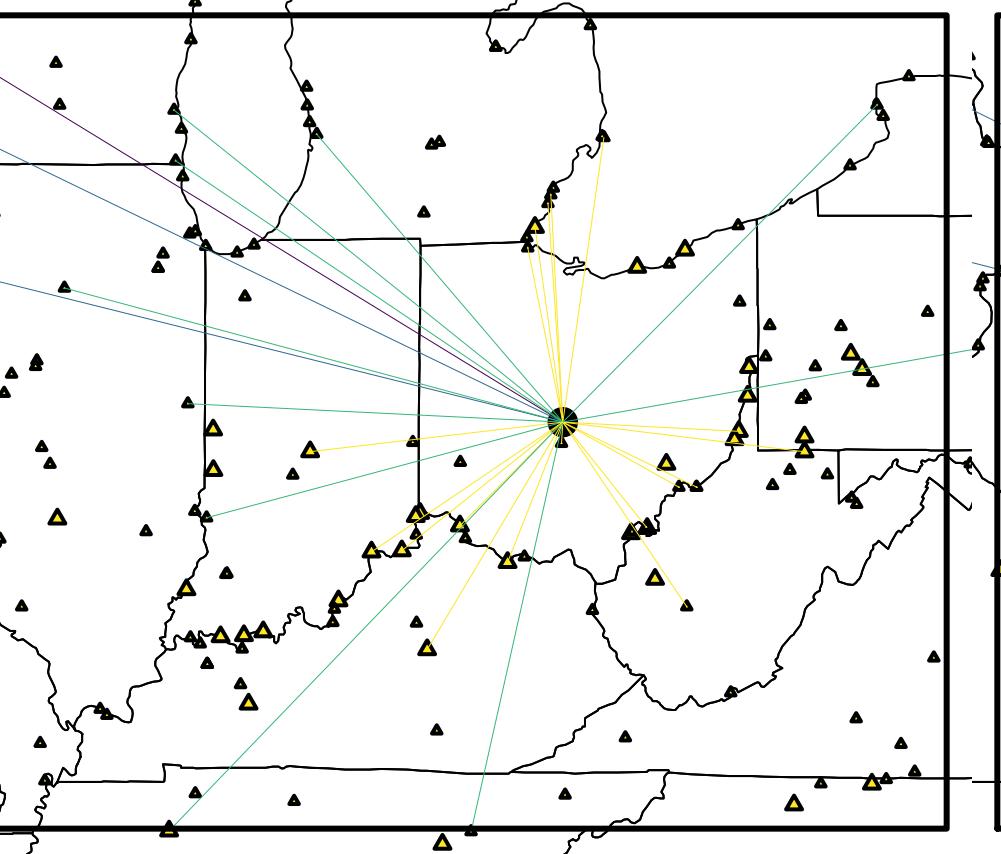
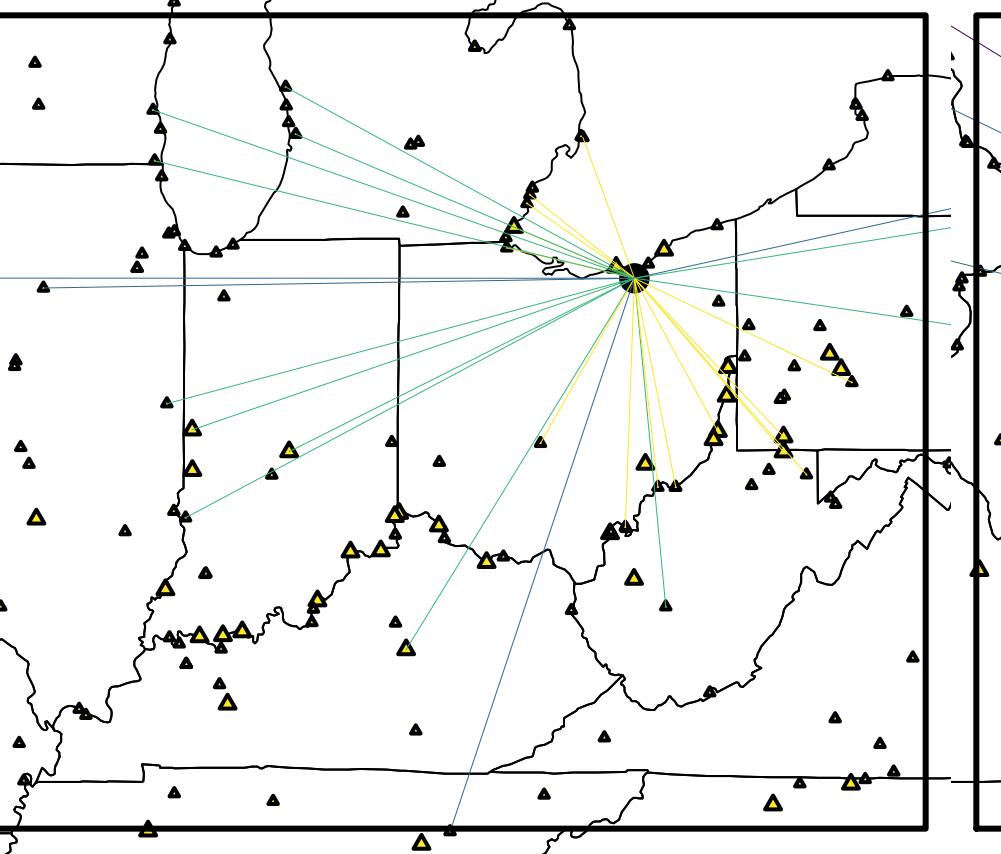
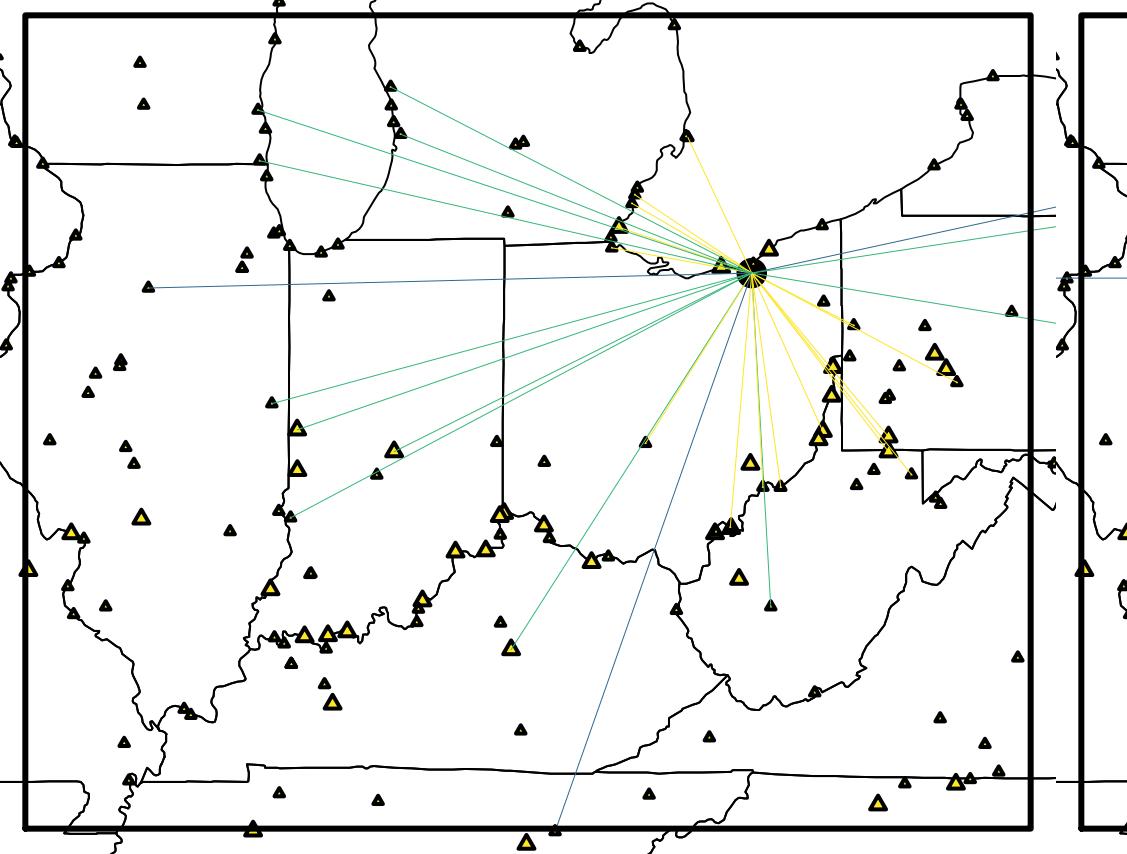
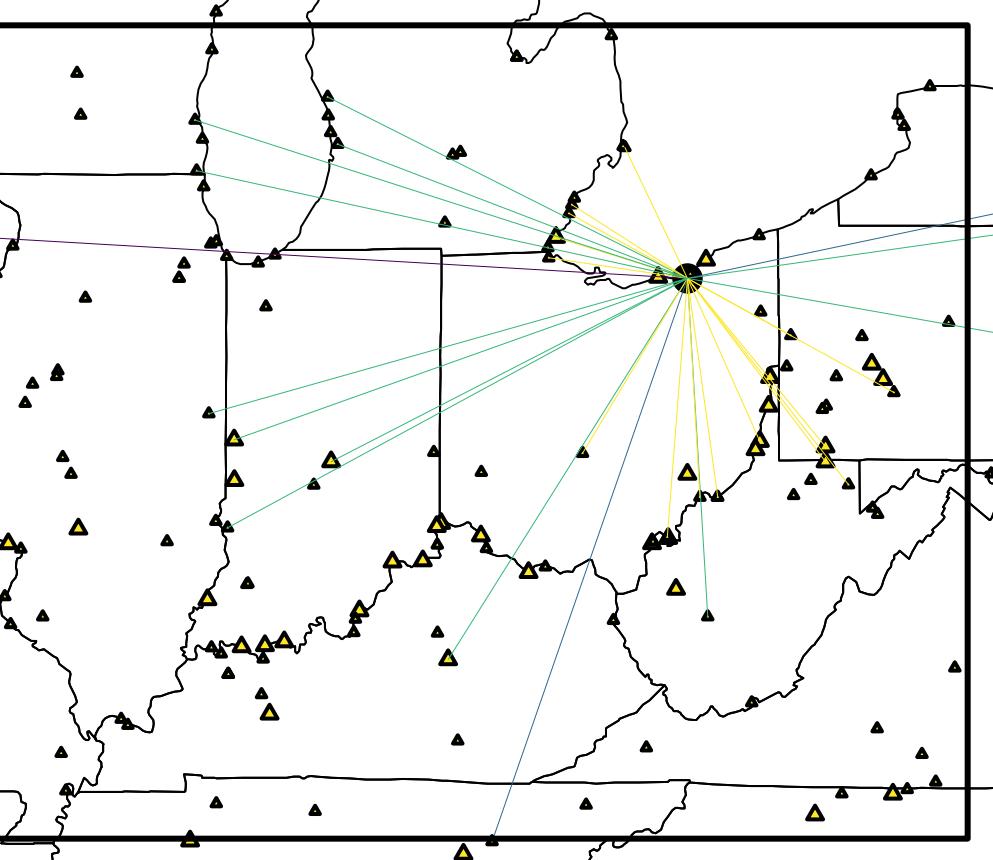
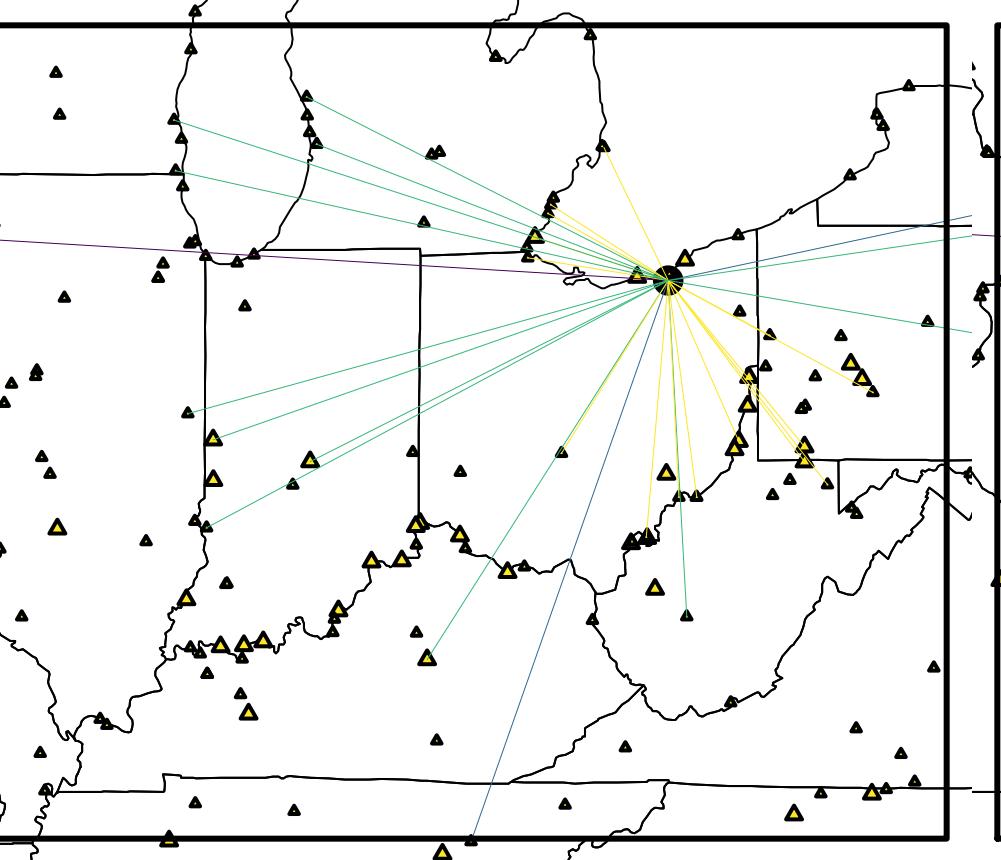
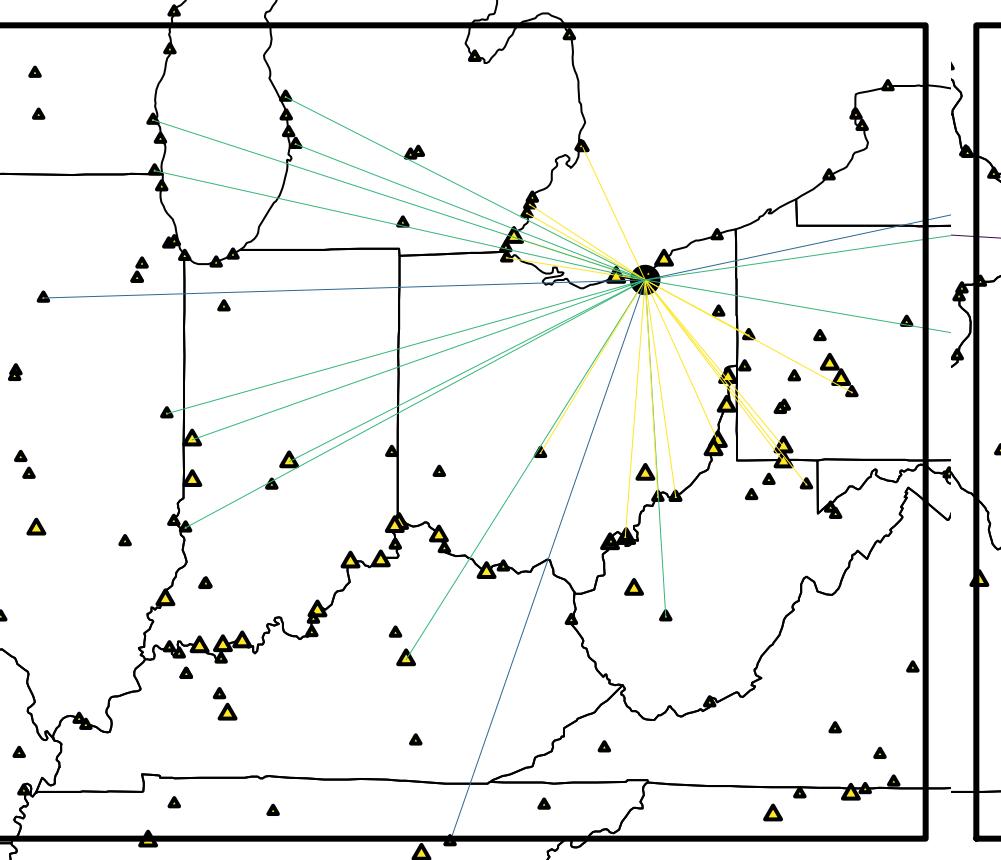
## Lag 2 edges

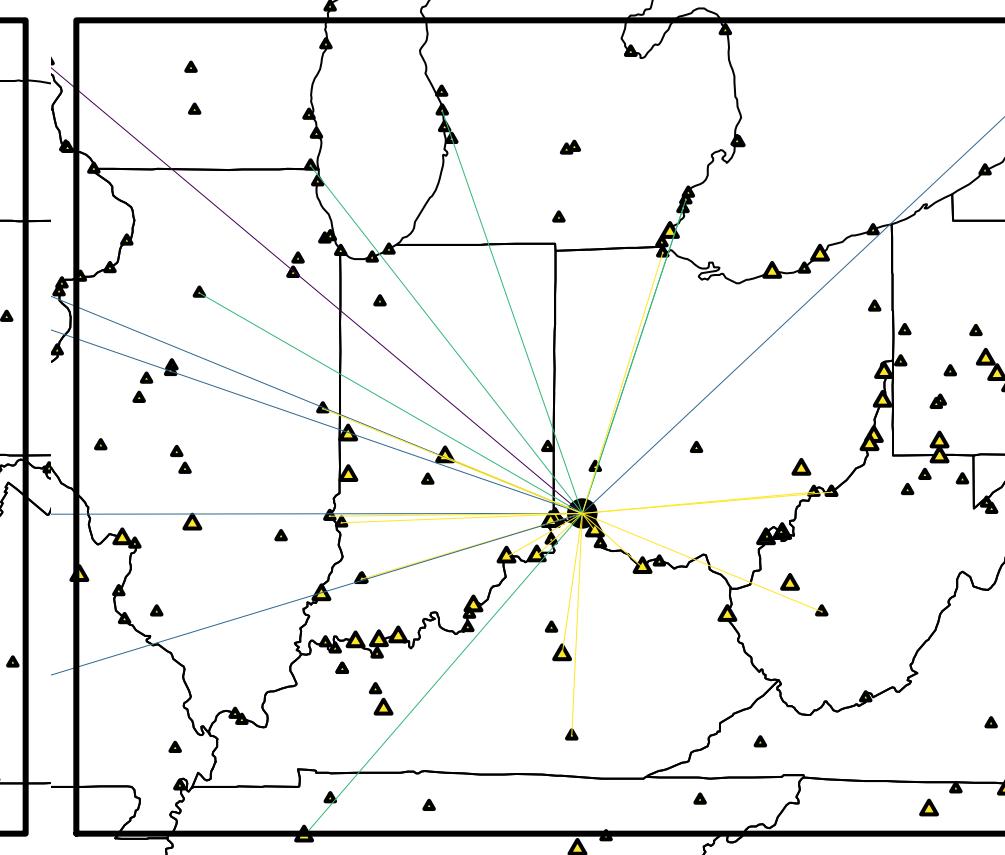
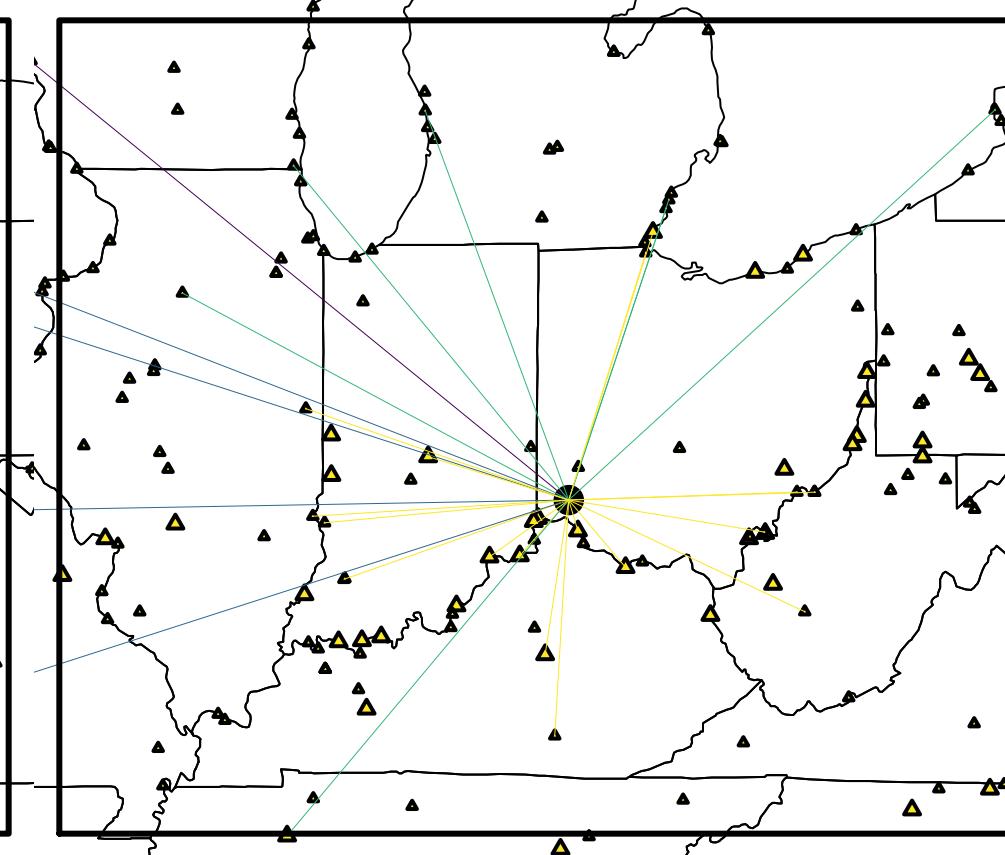
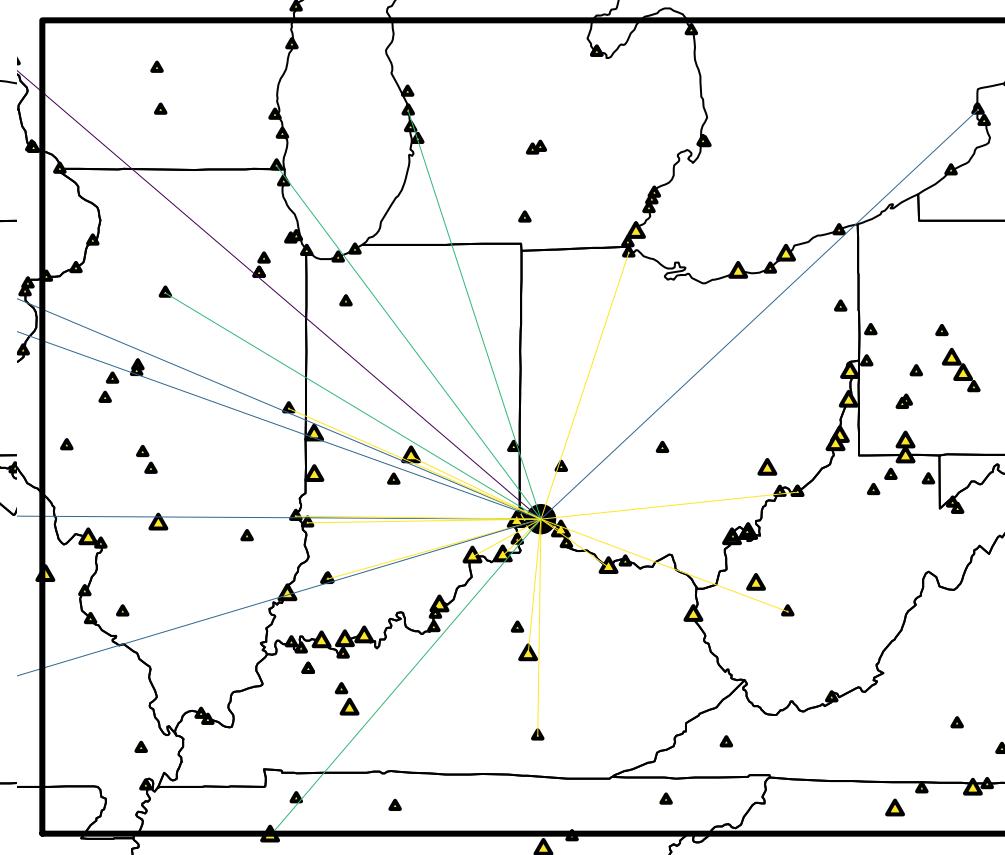
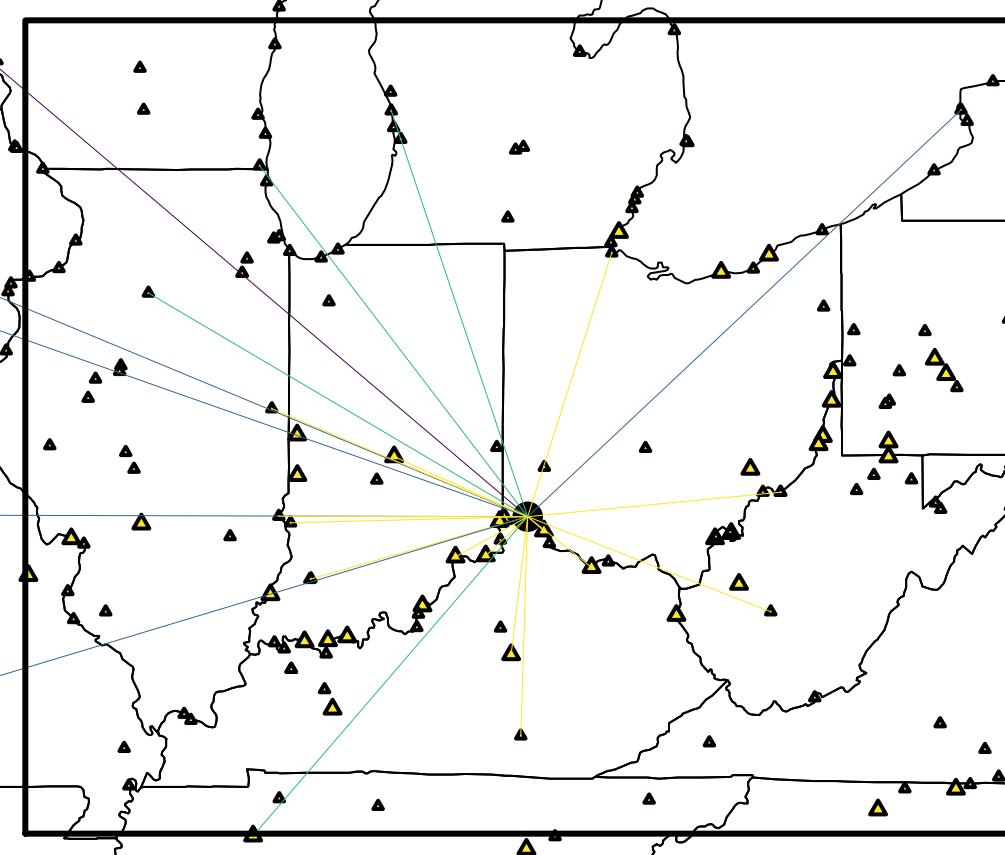
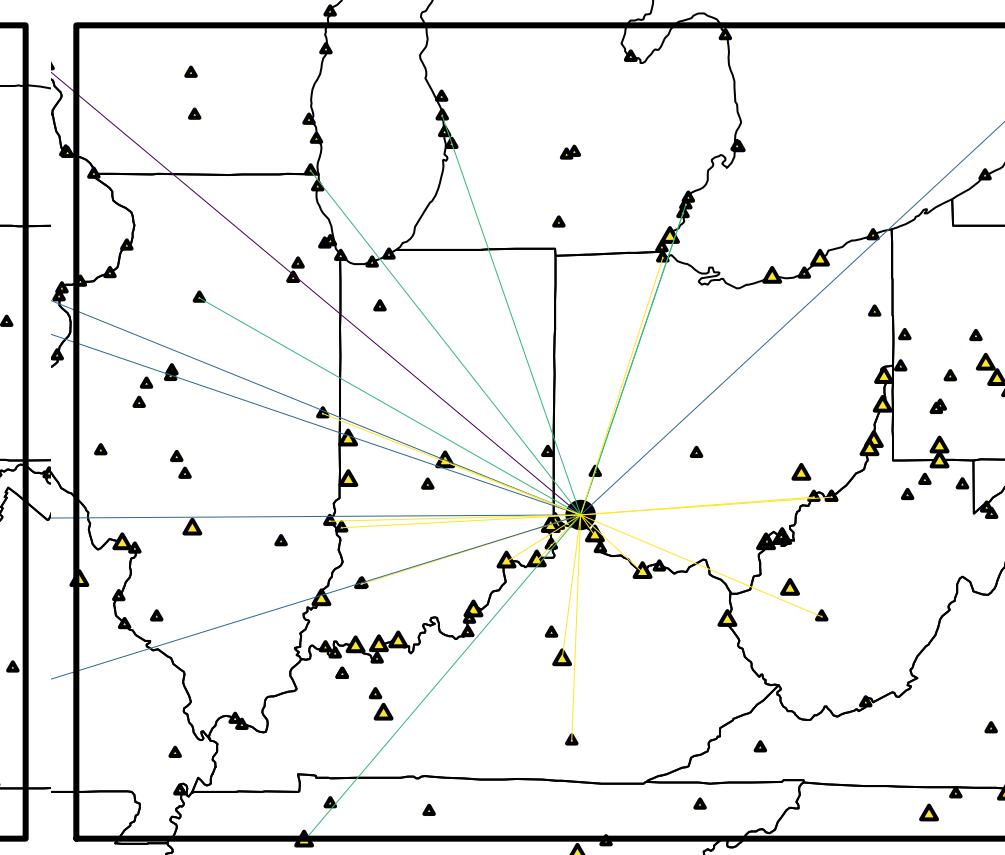
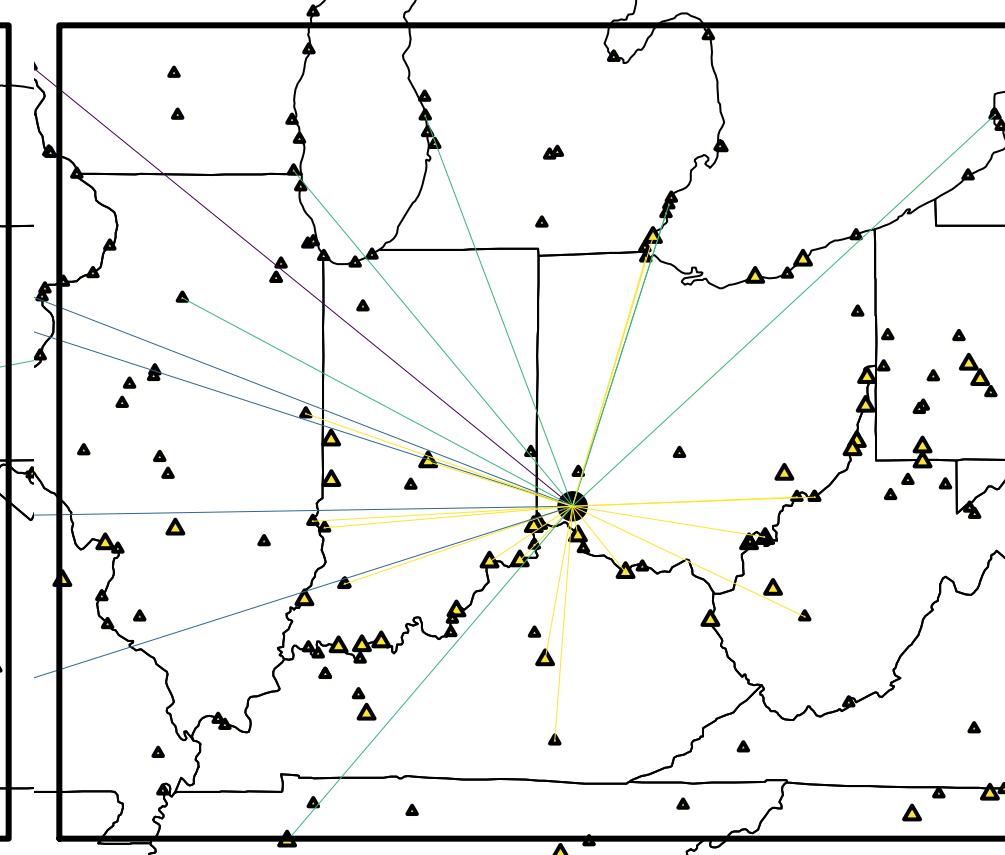
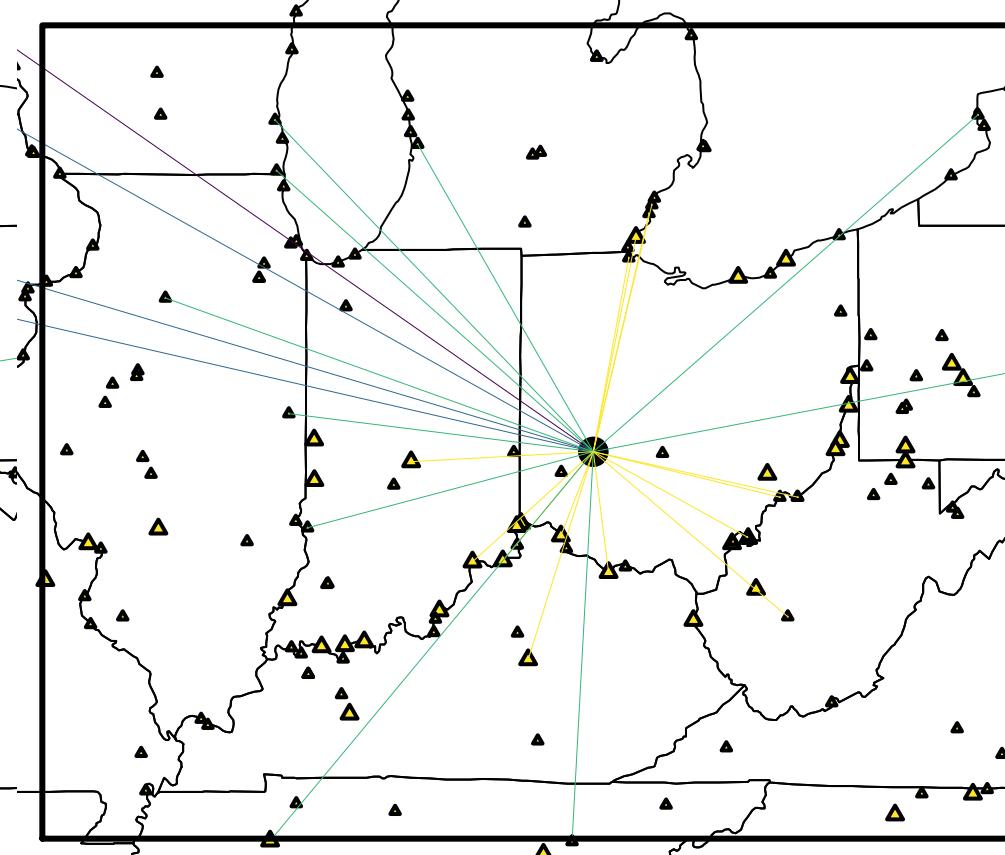
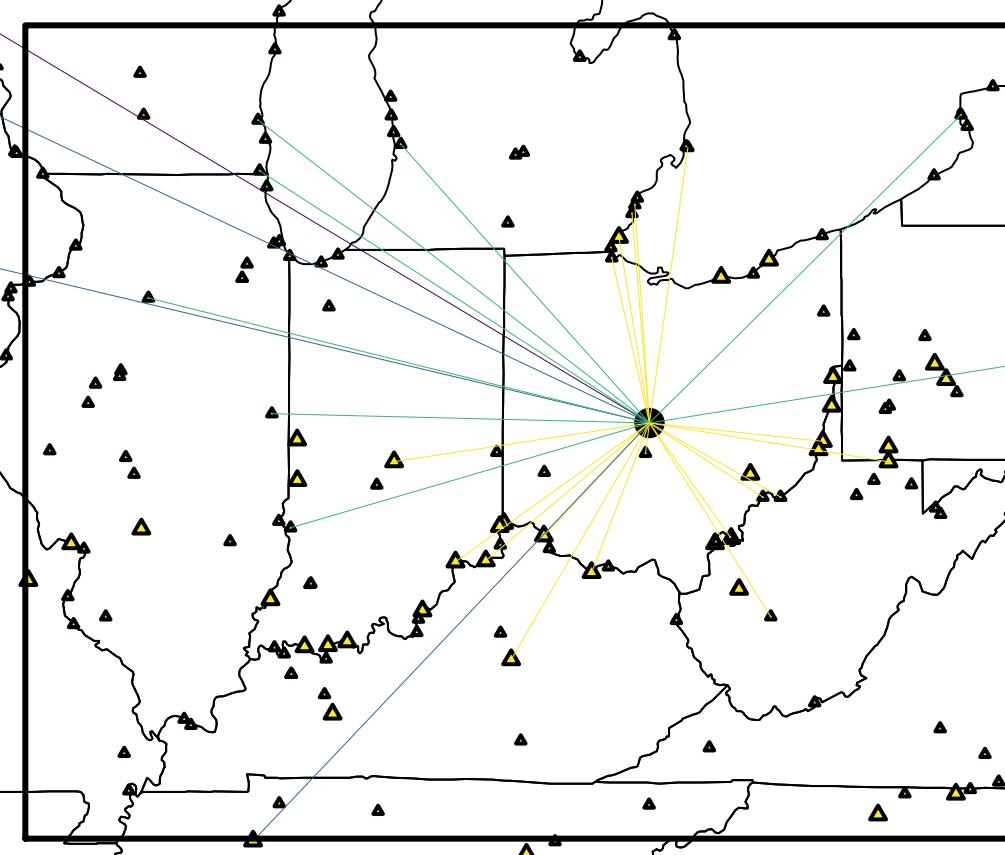


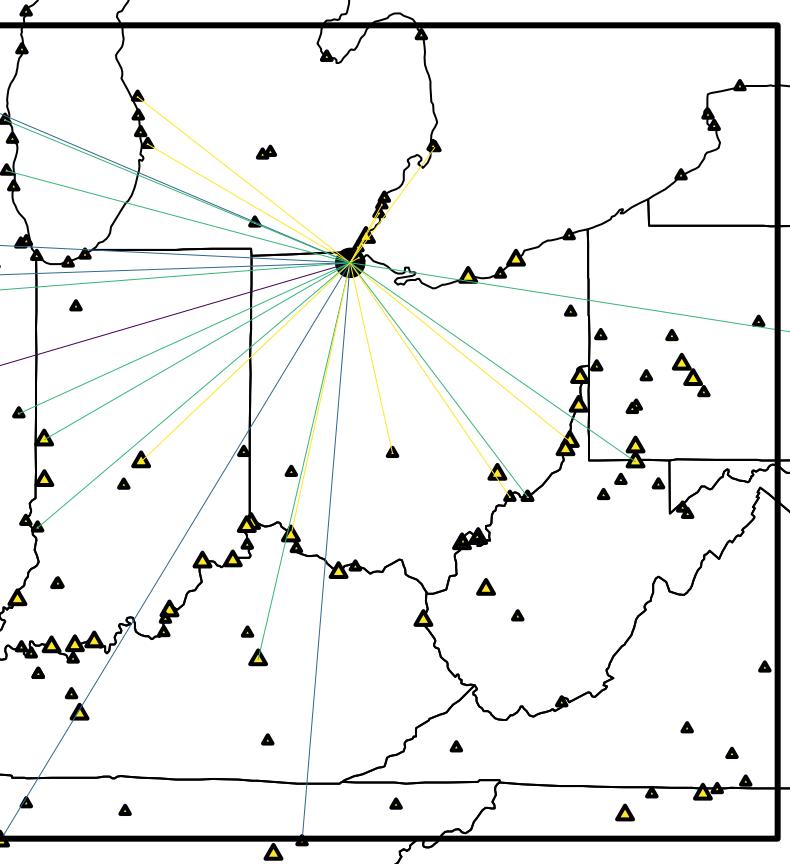
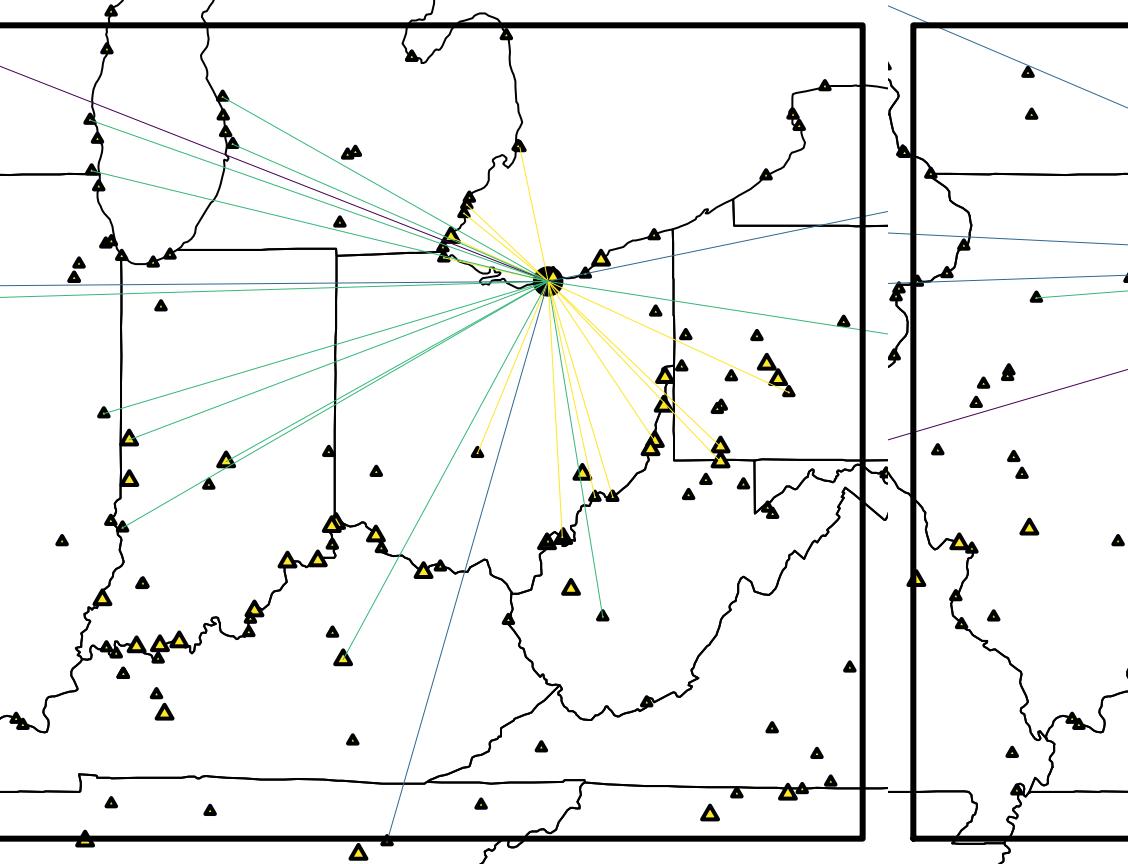
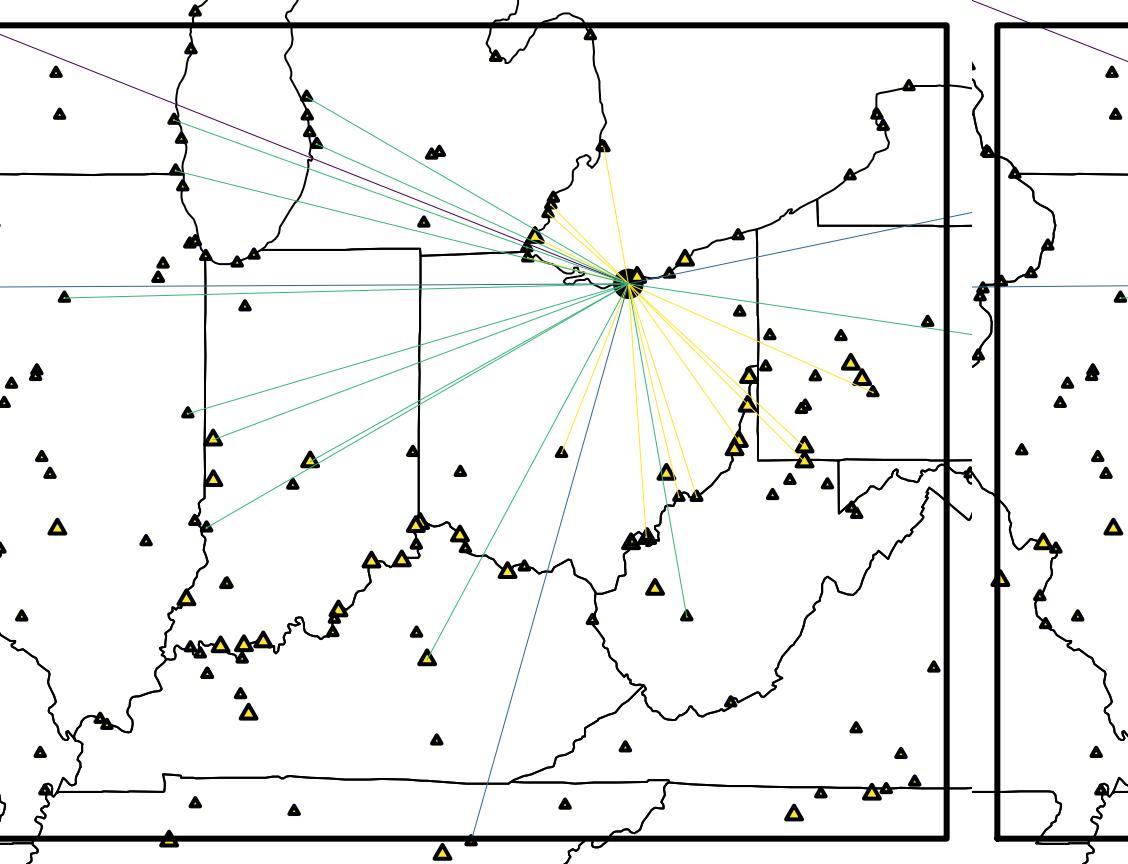
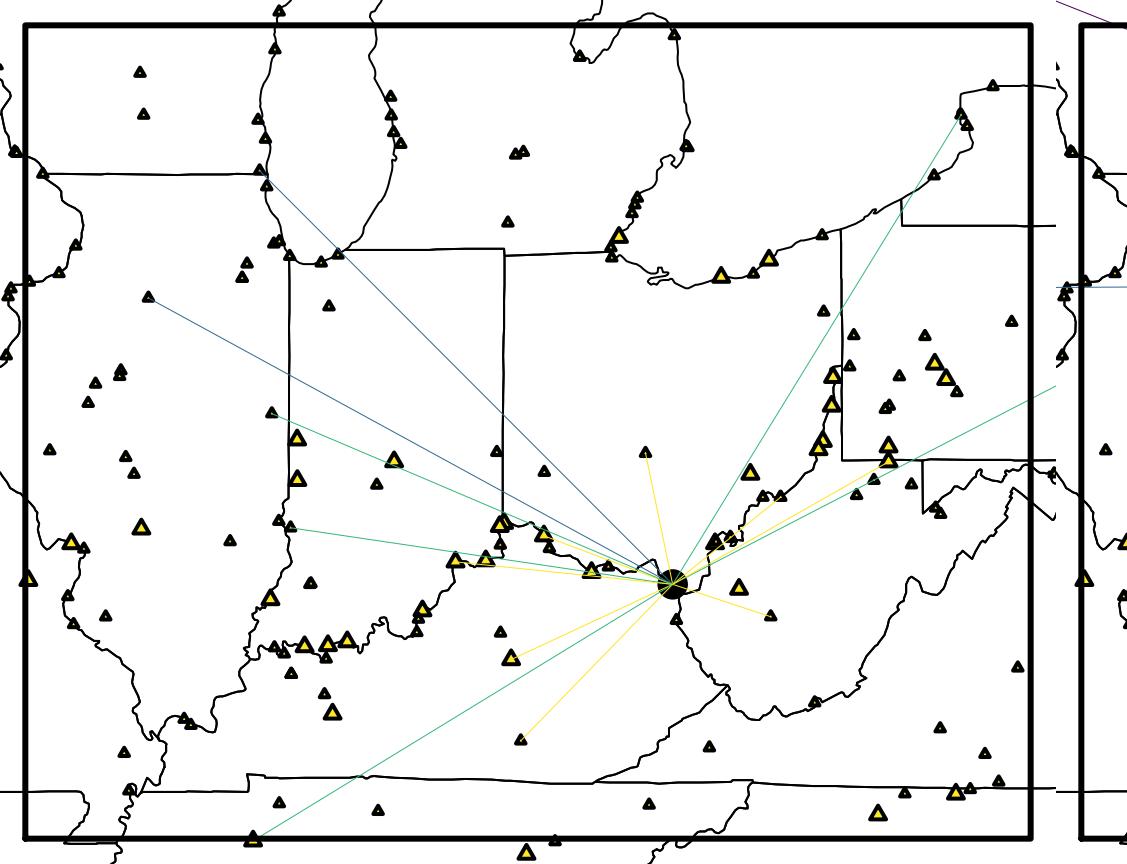
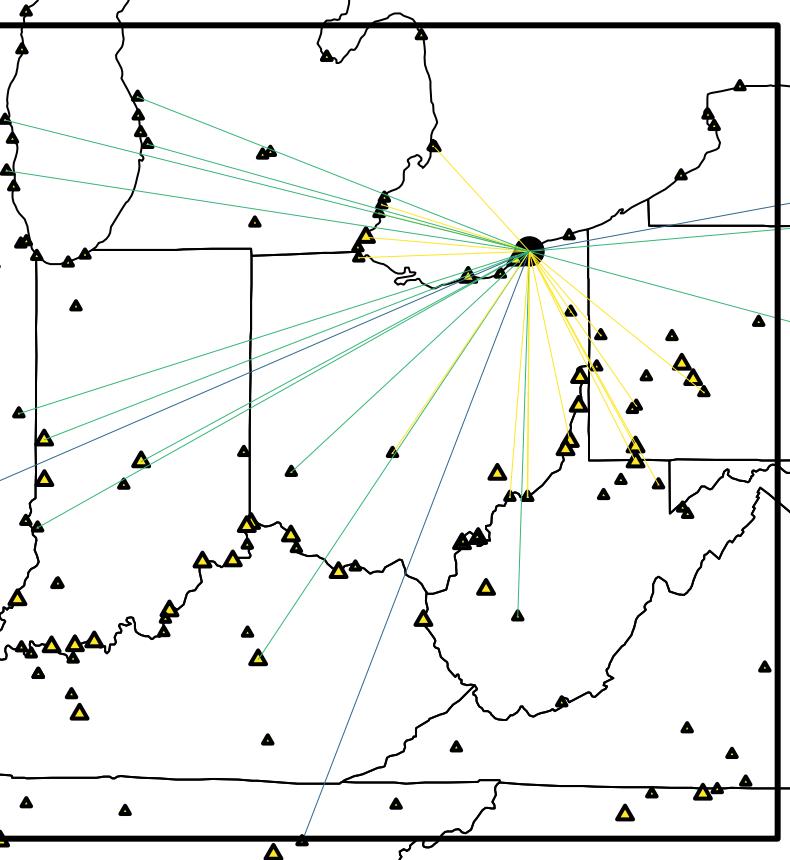
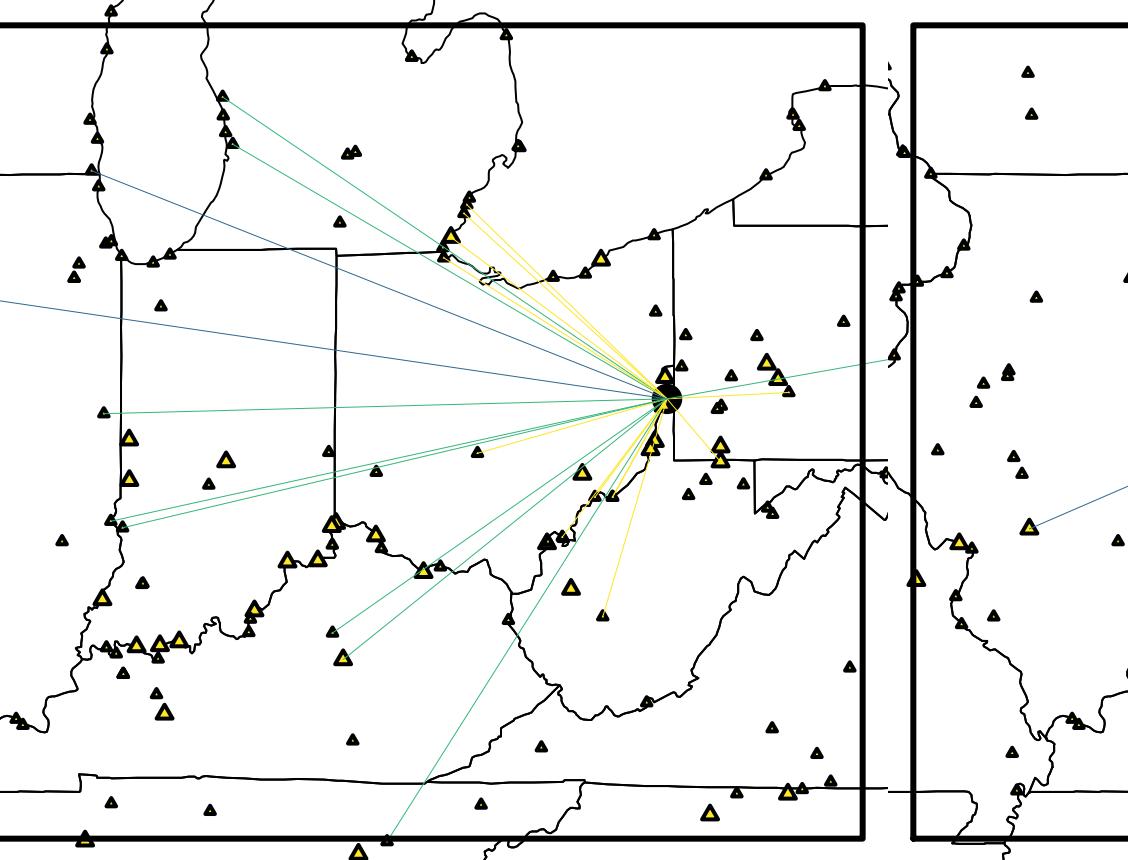
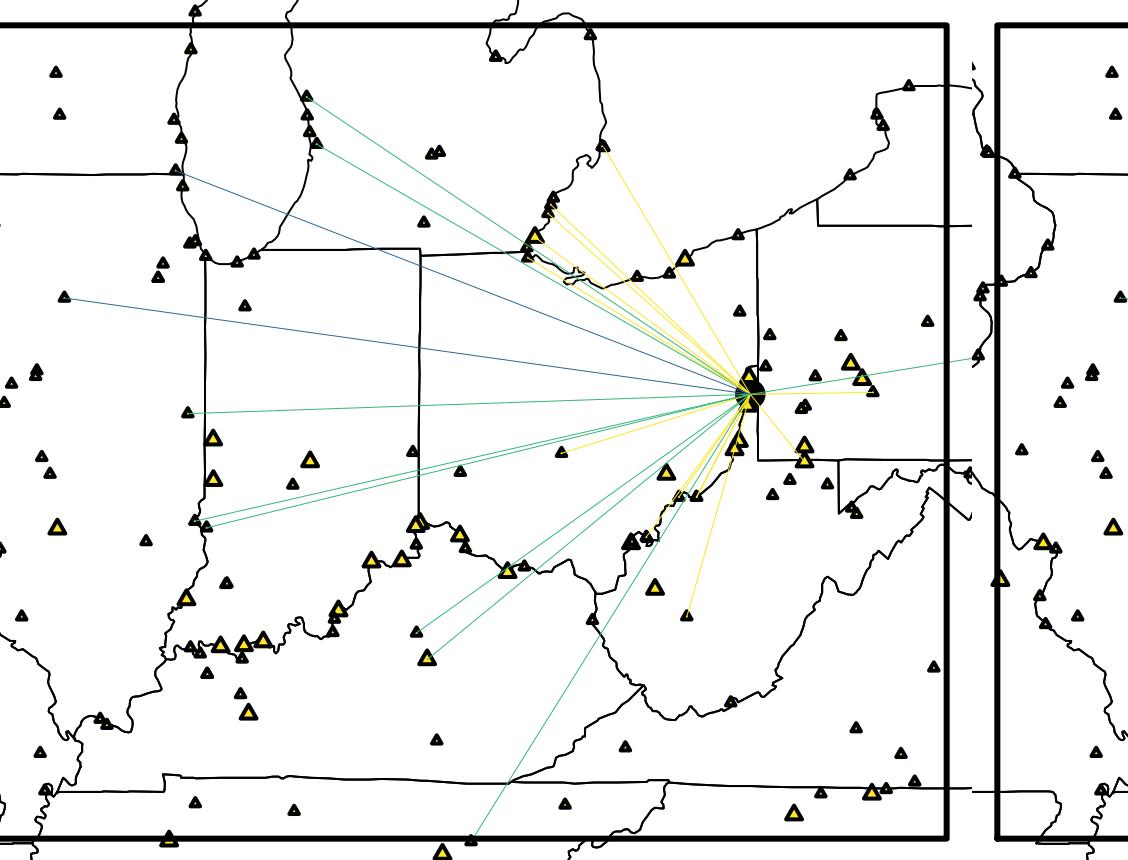
## Lag 3 edges

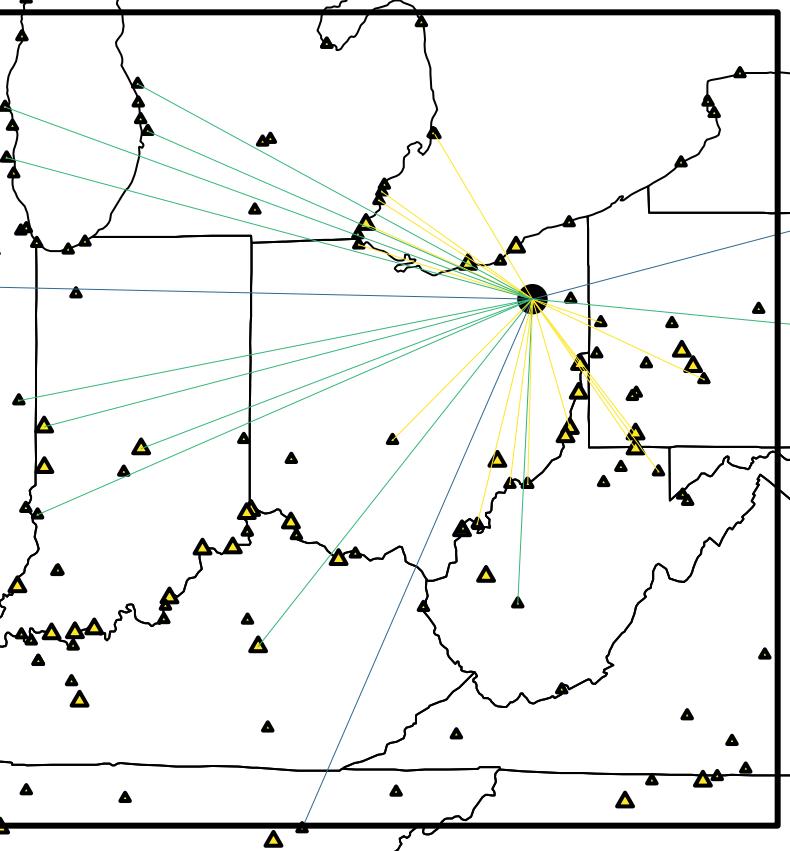
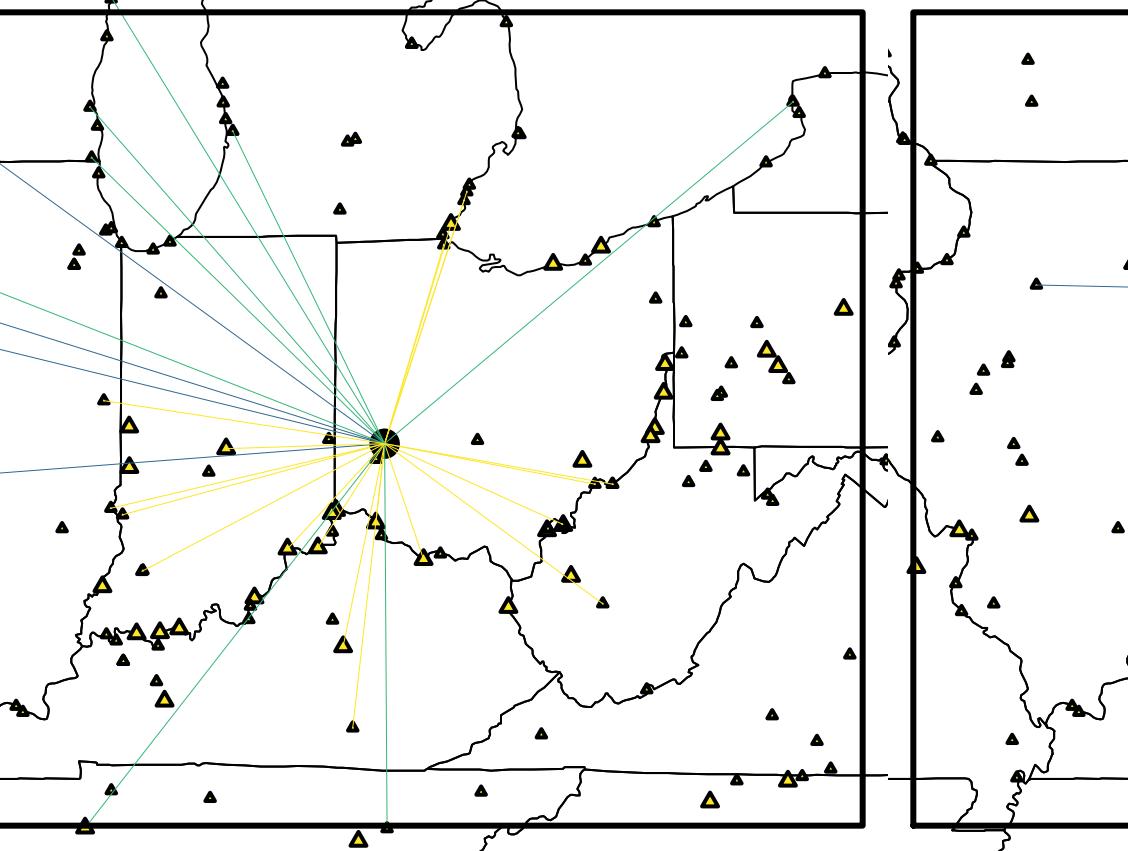
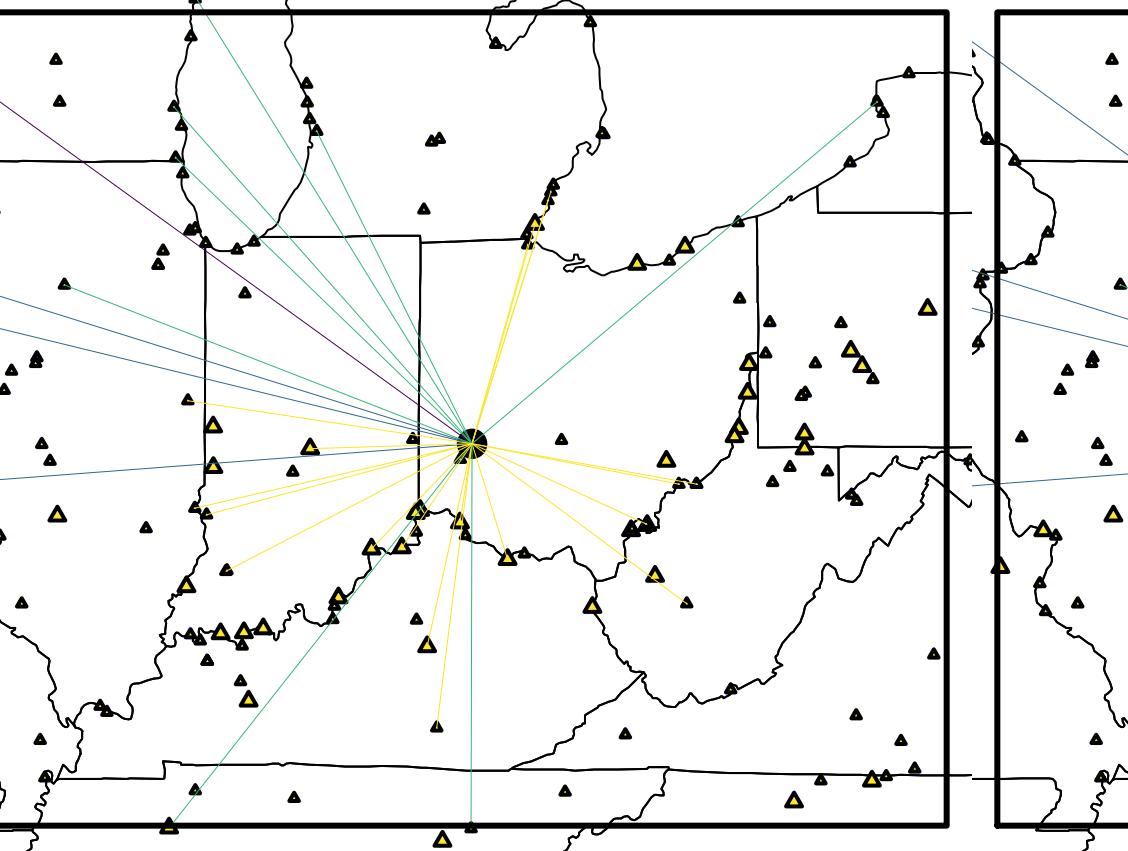
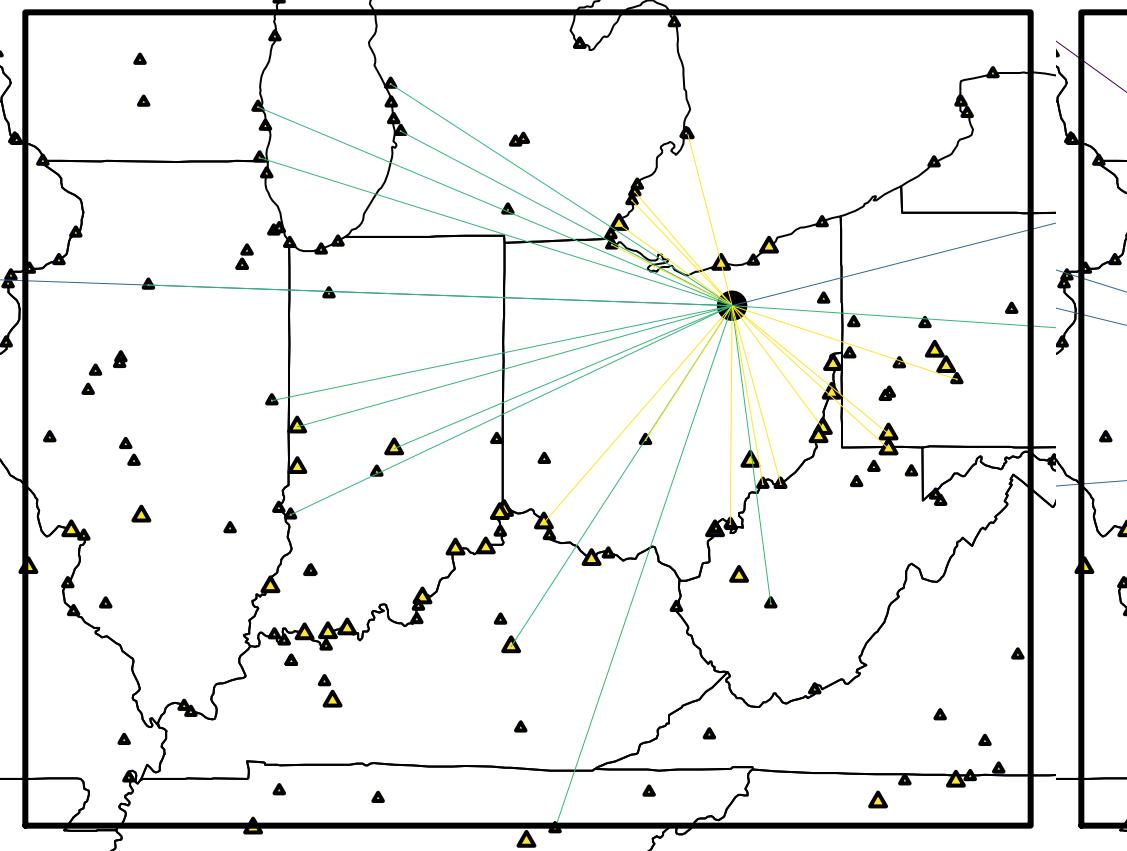
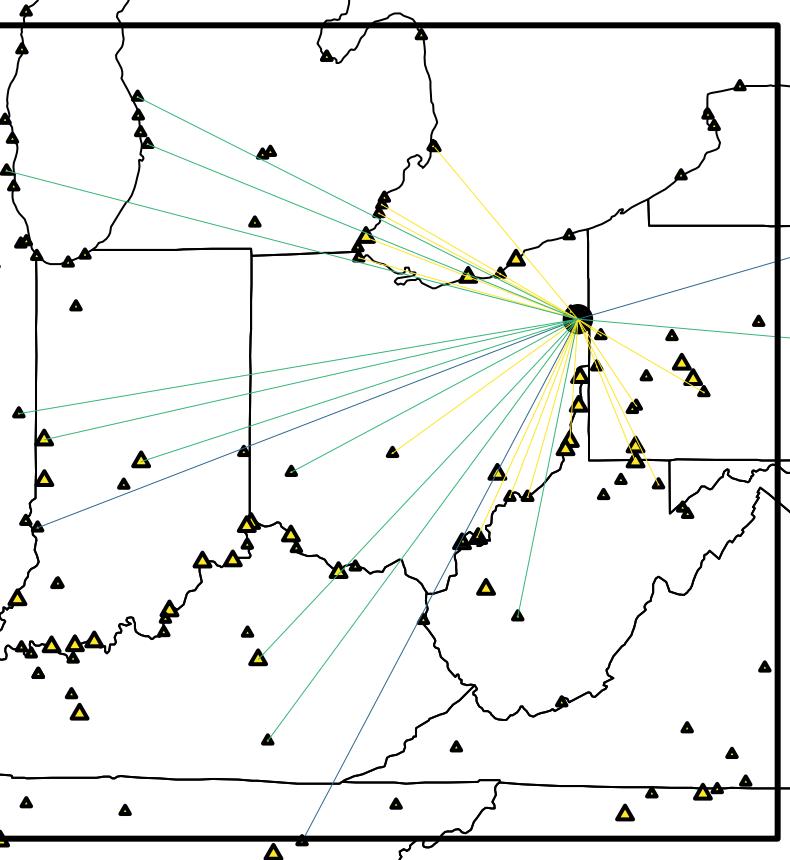
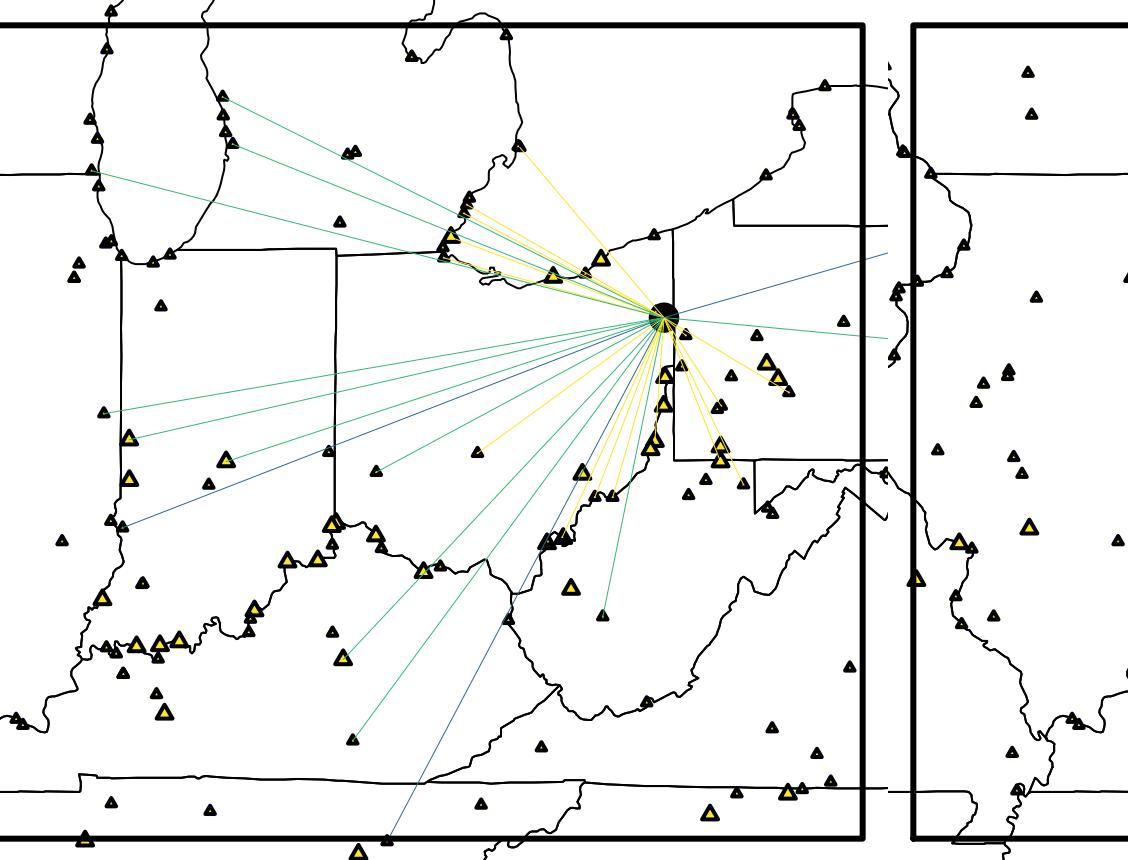
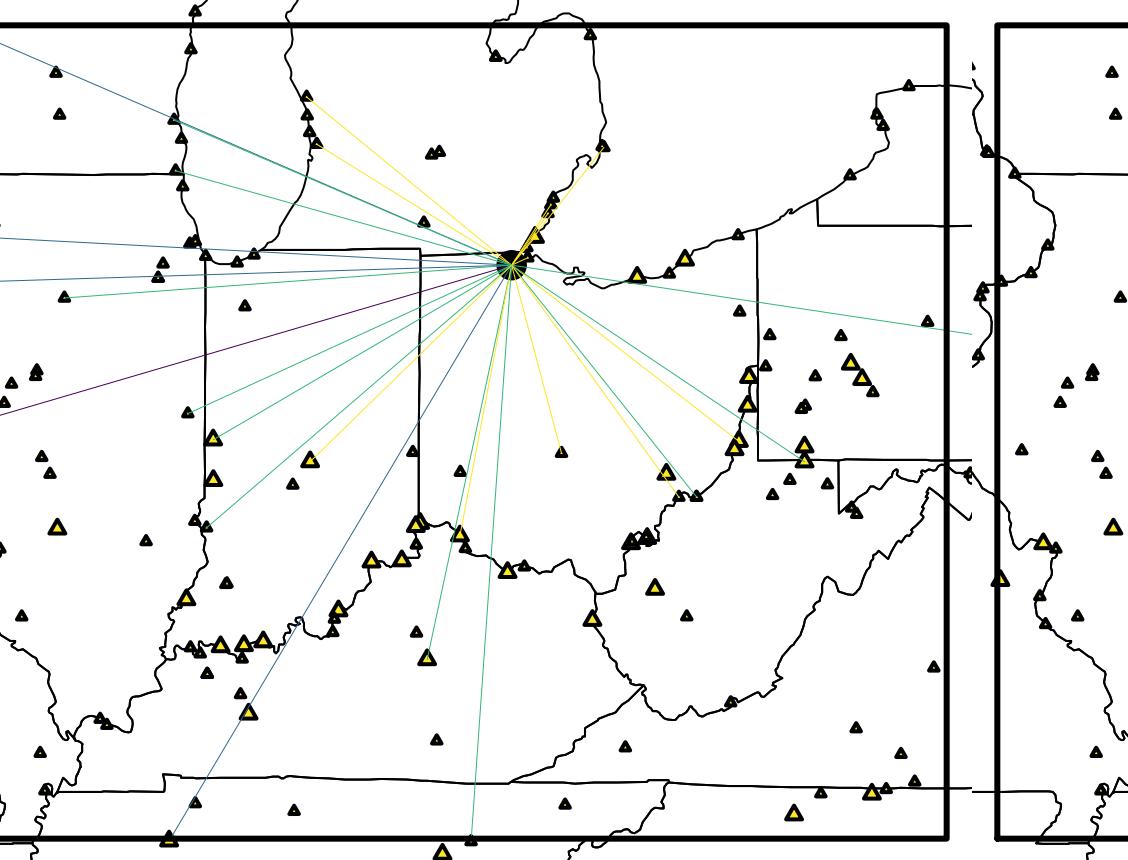


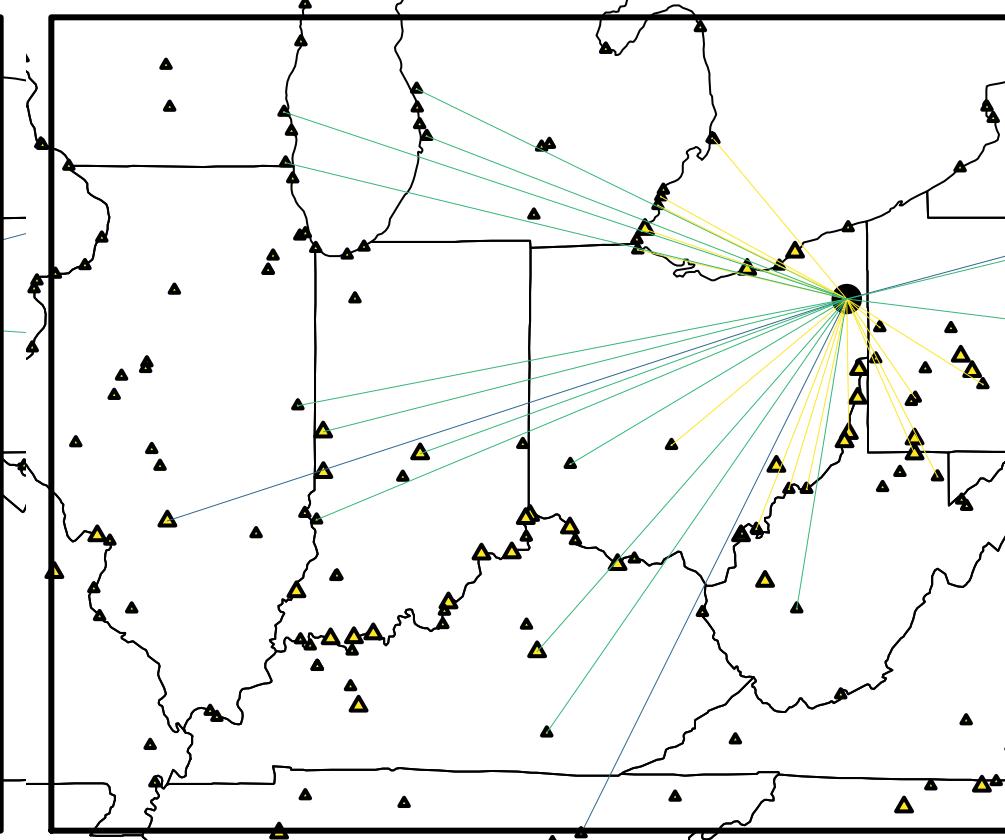
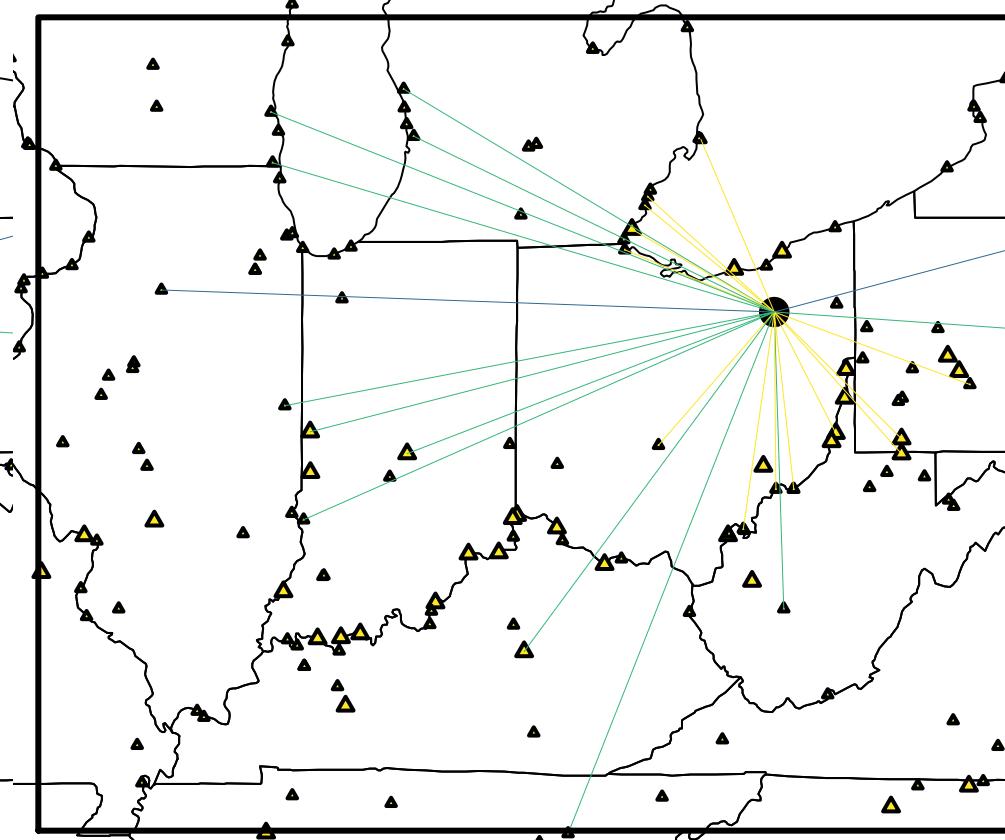
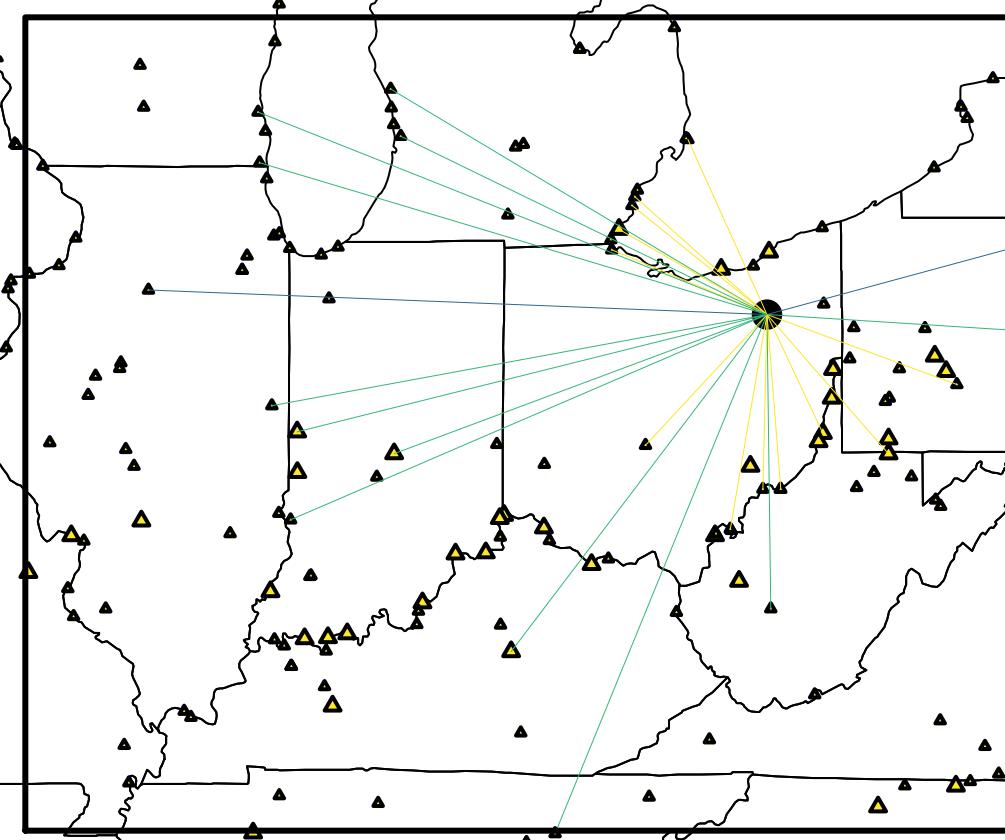
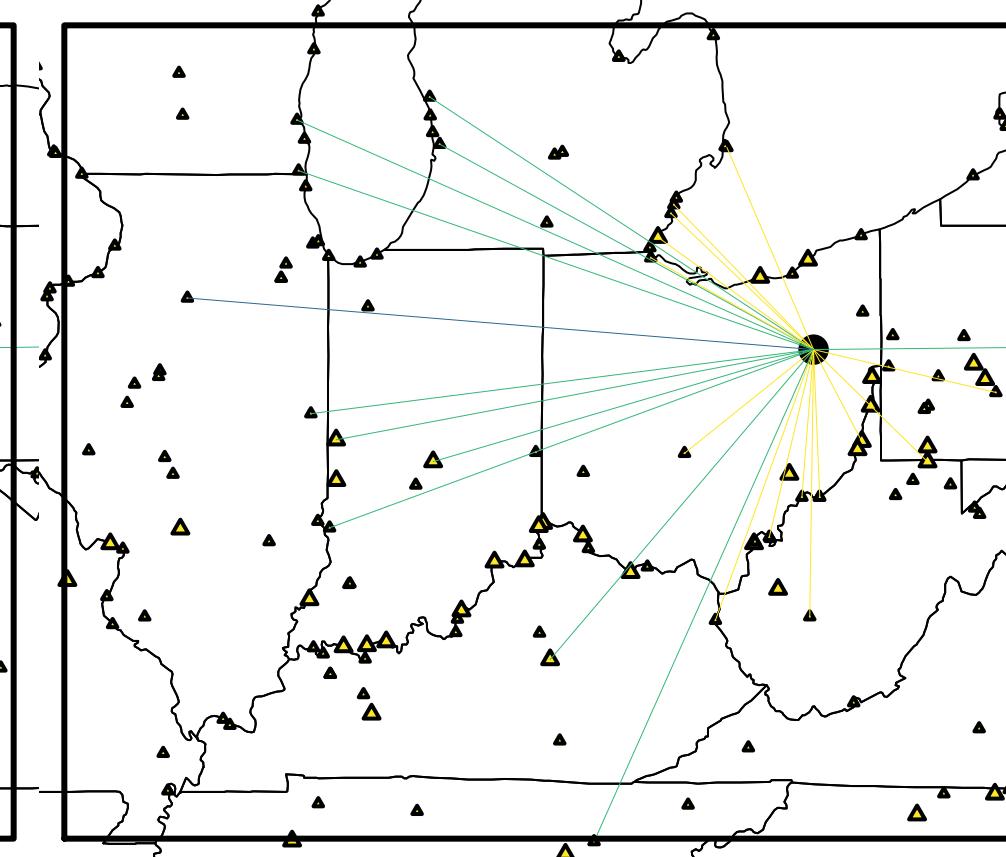
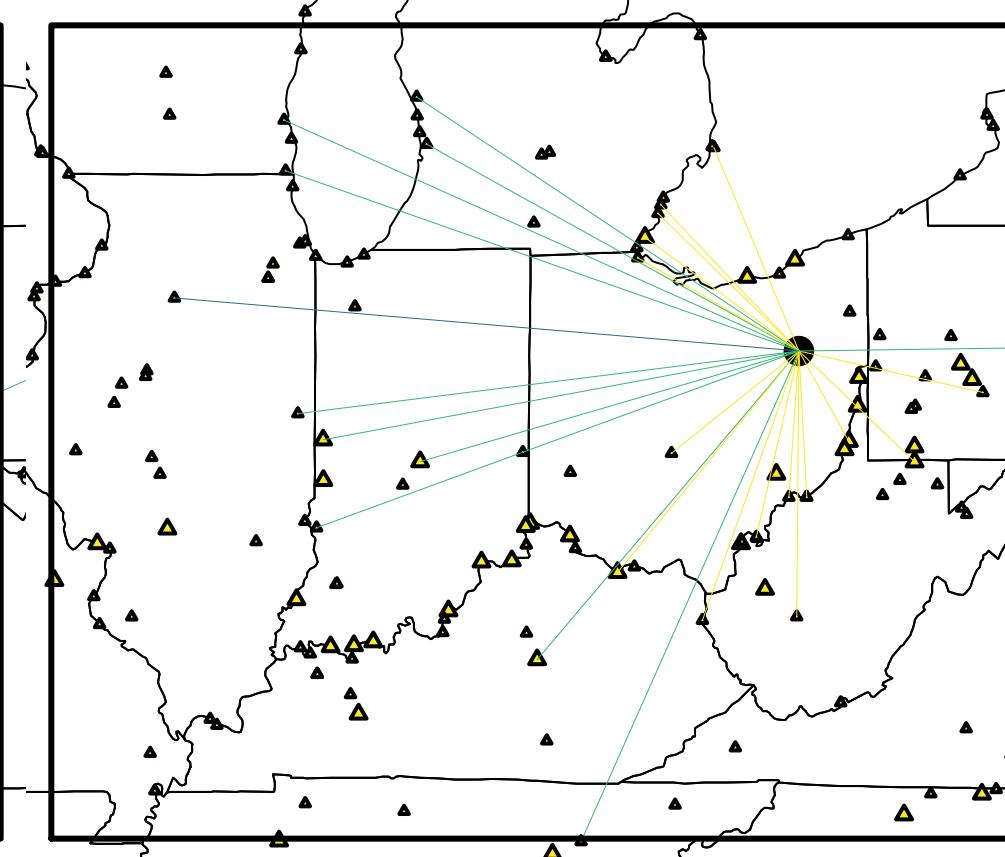
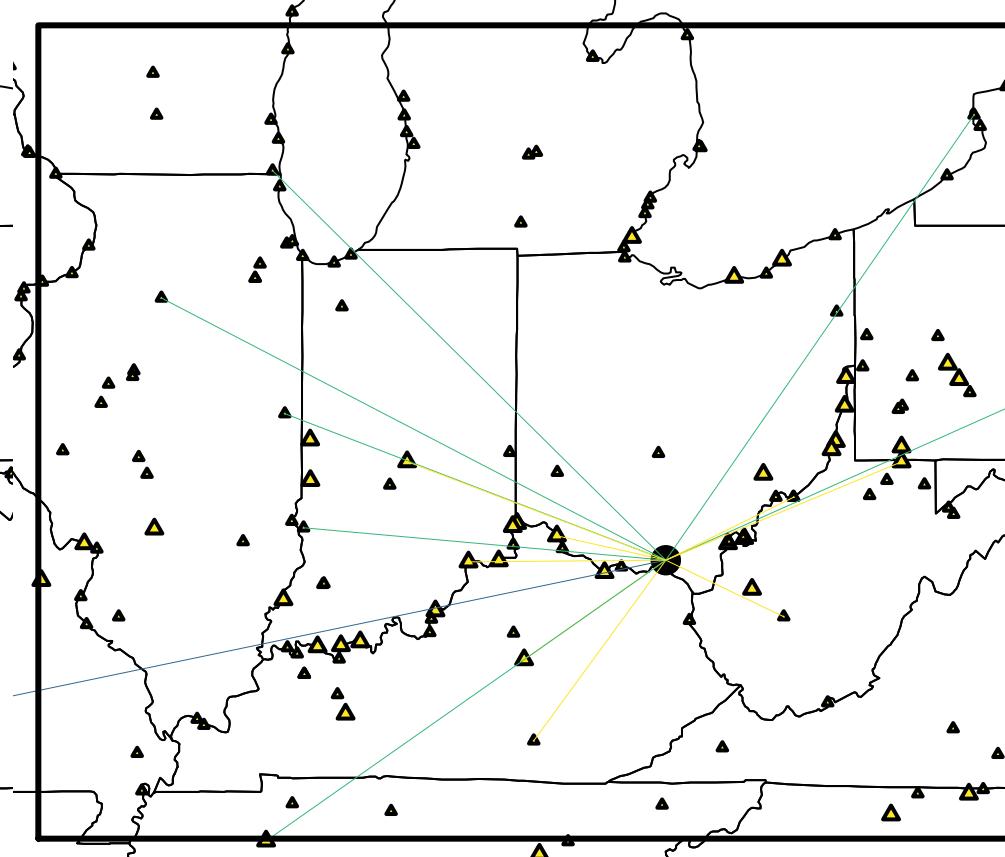
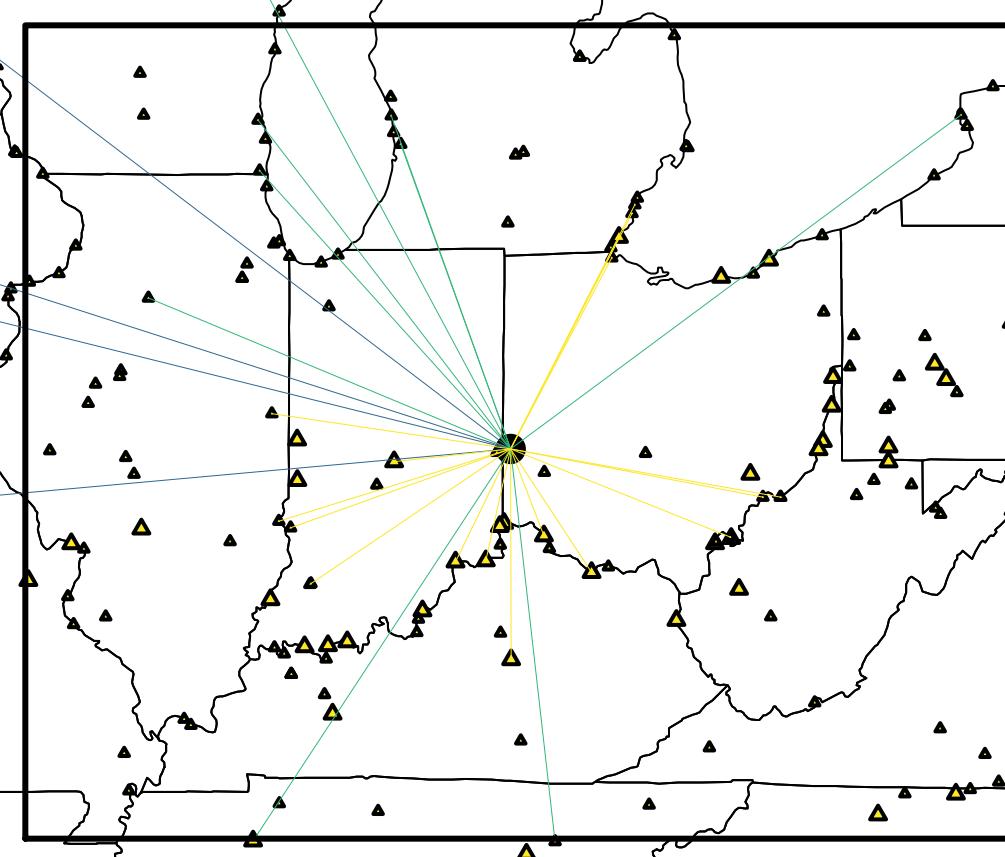


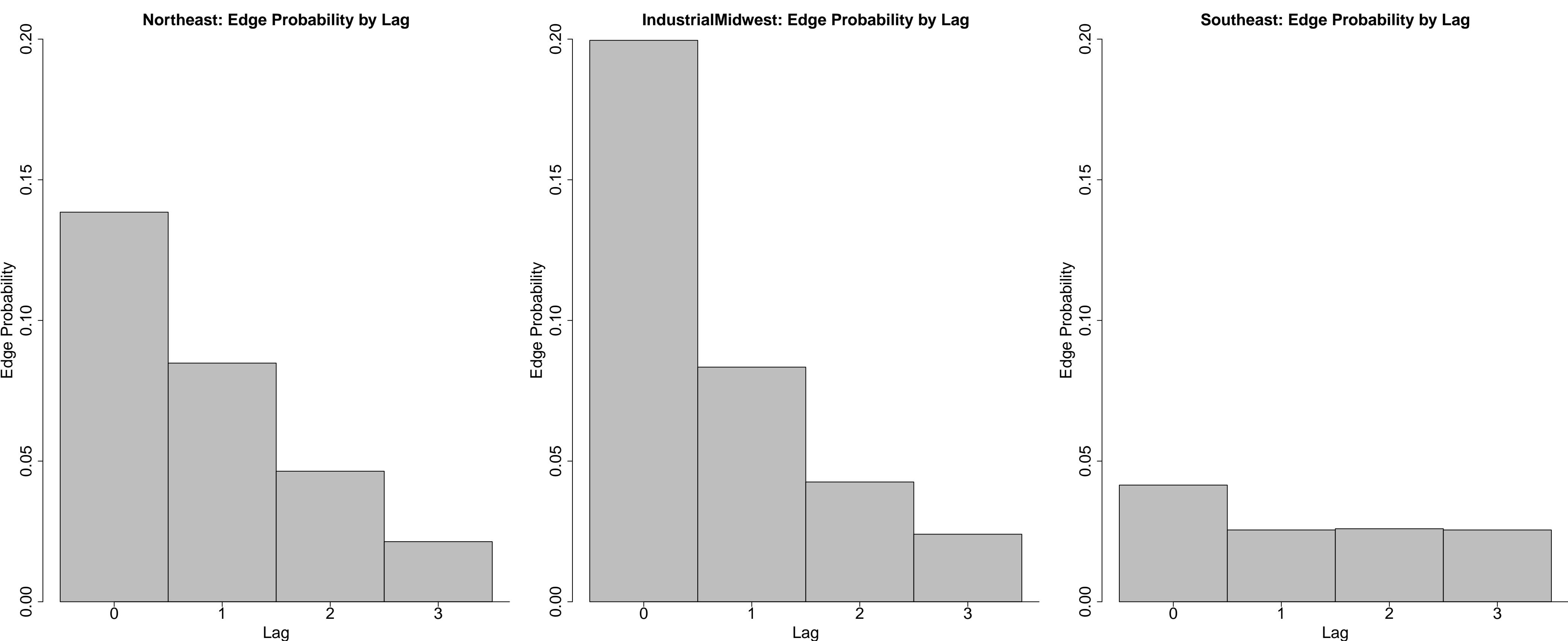




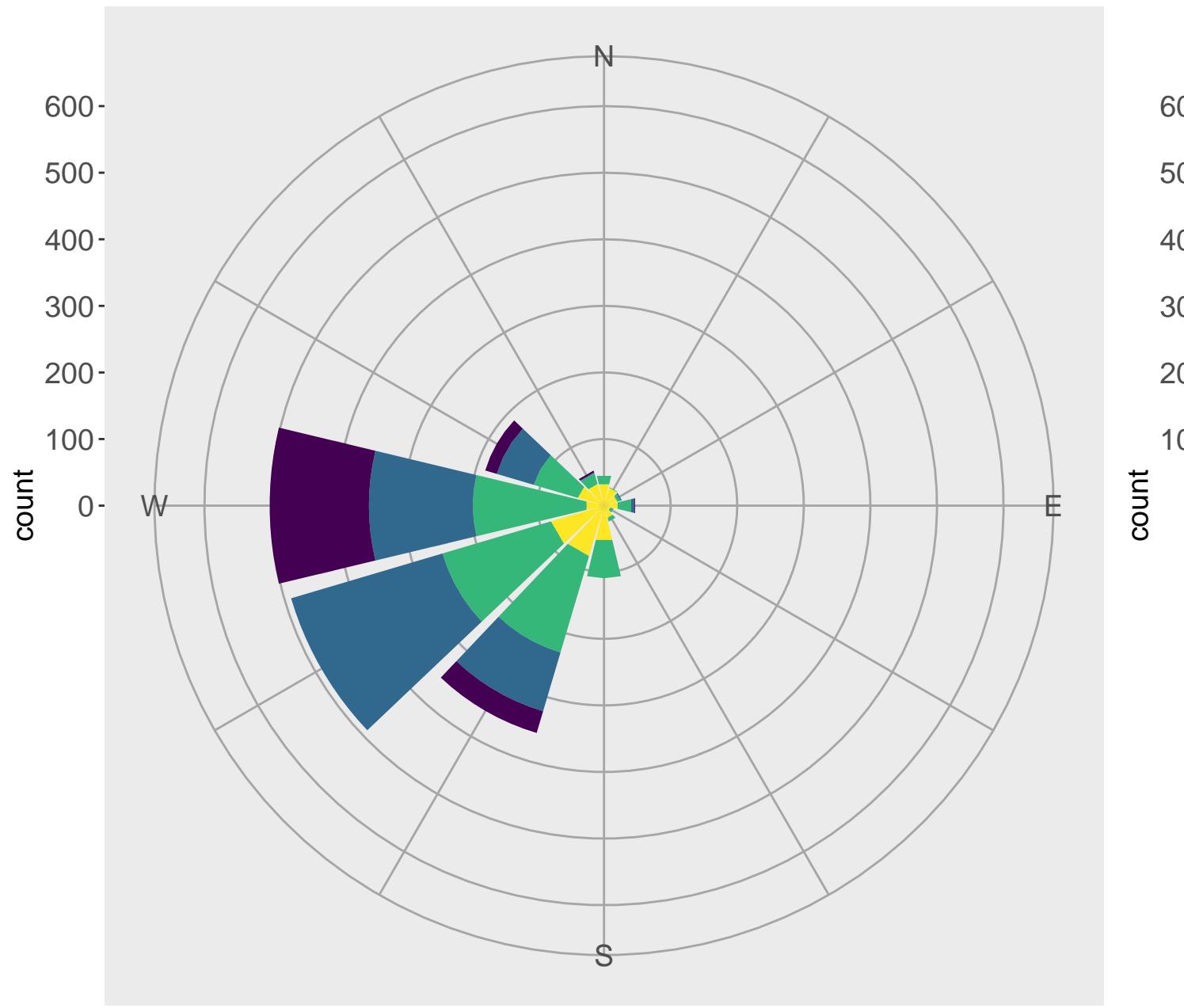




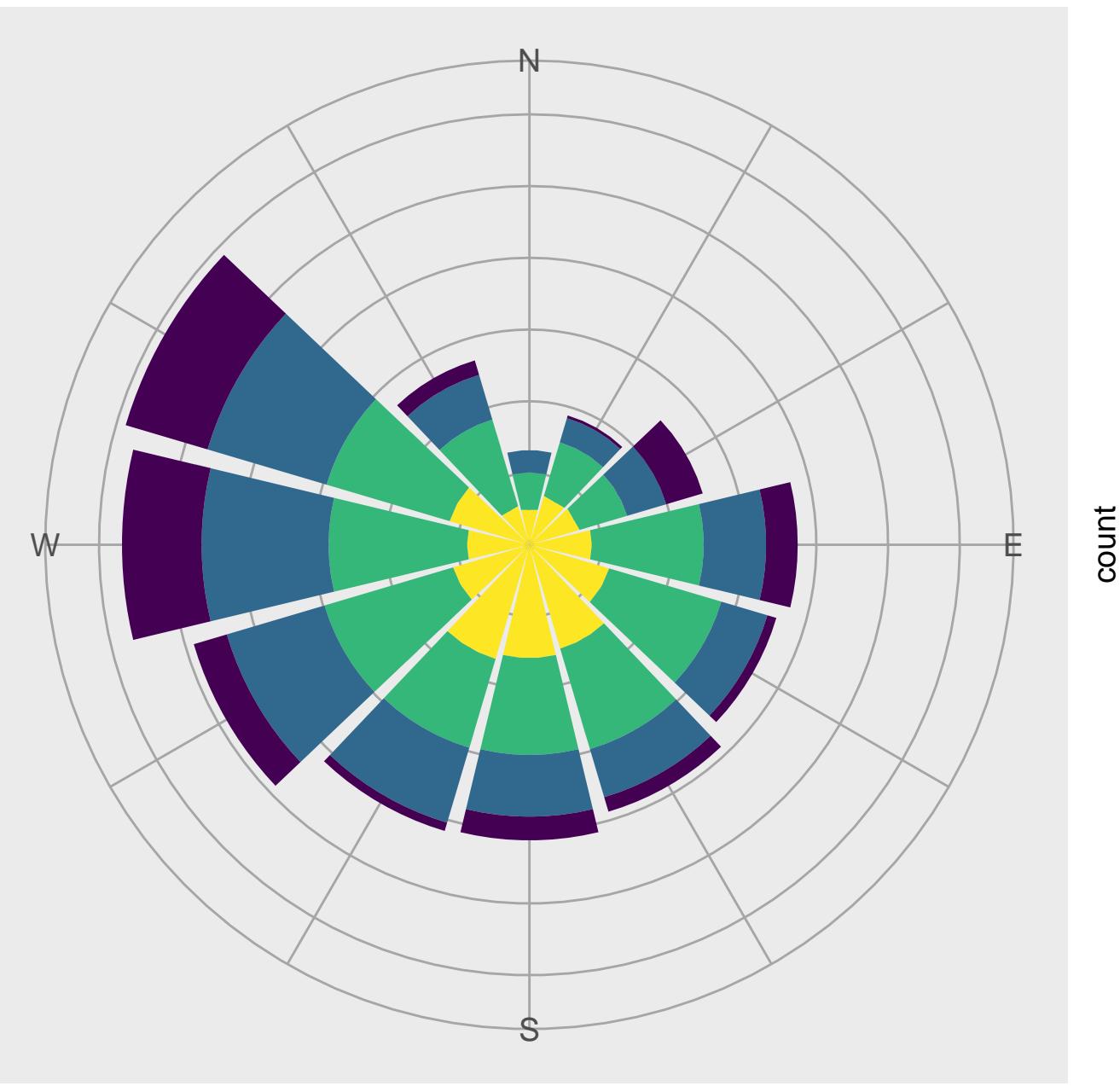




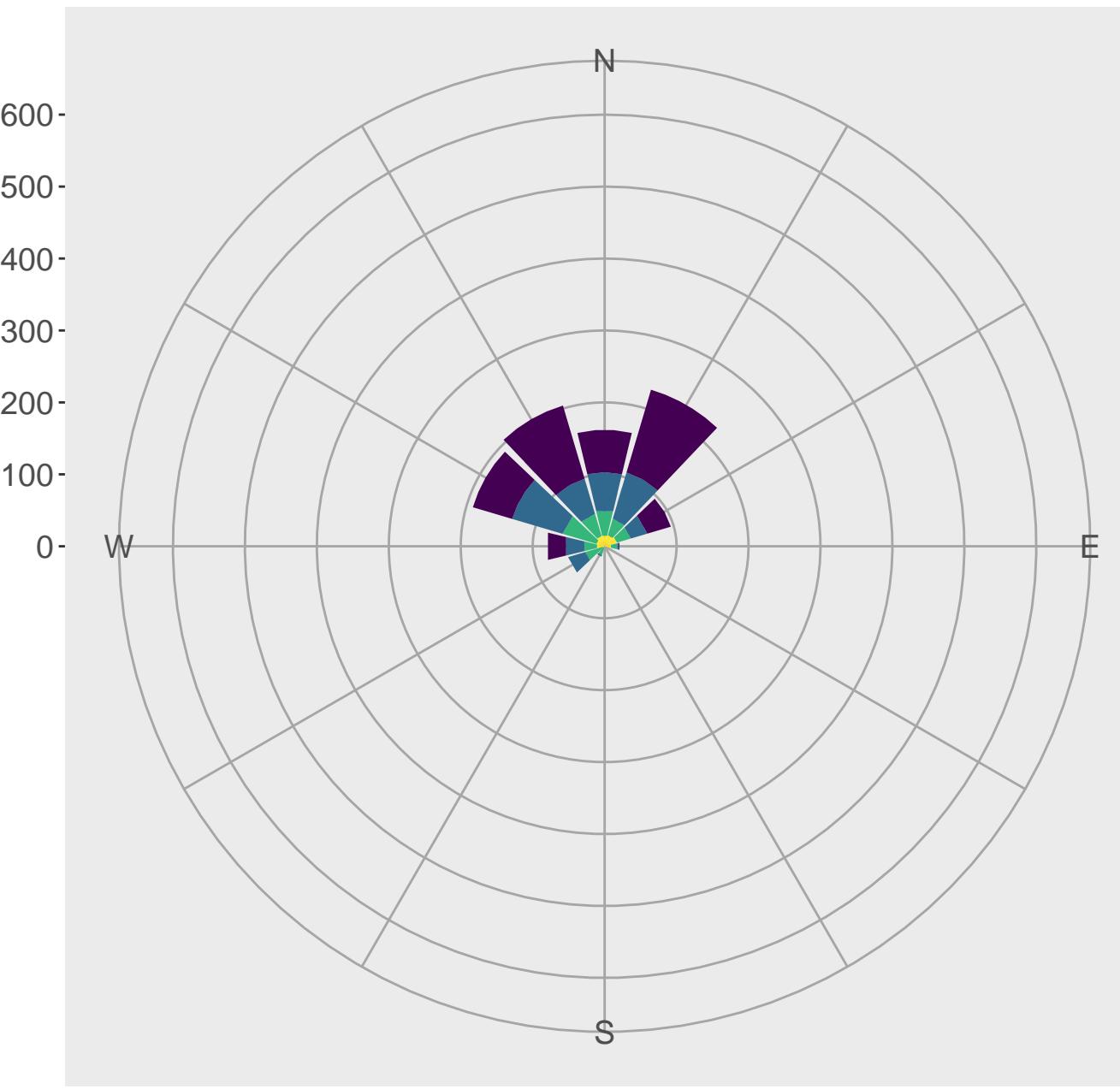
**Edge counts by distance/direction to source**  
Northeast receptors



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



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

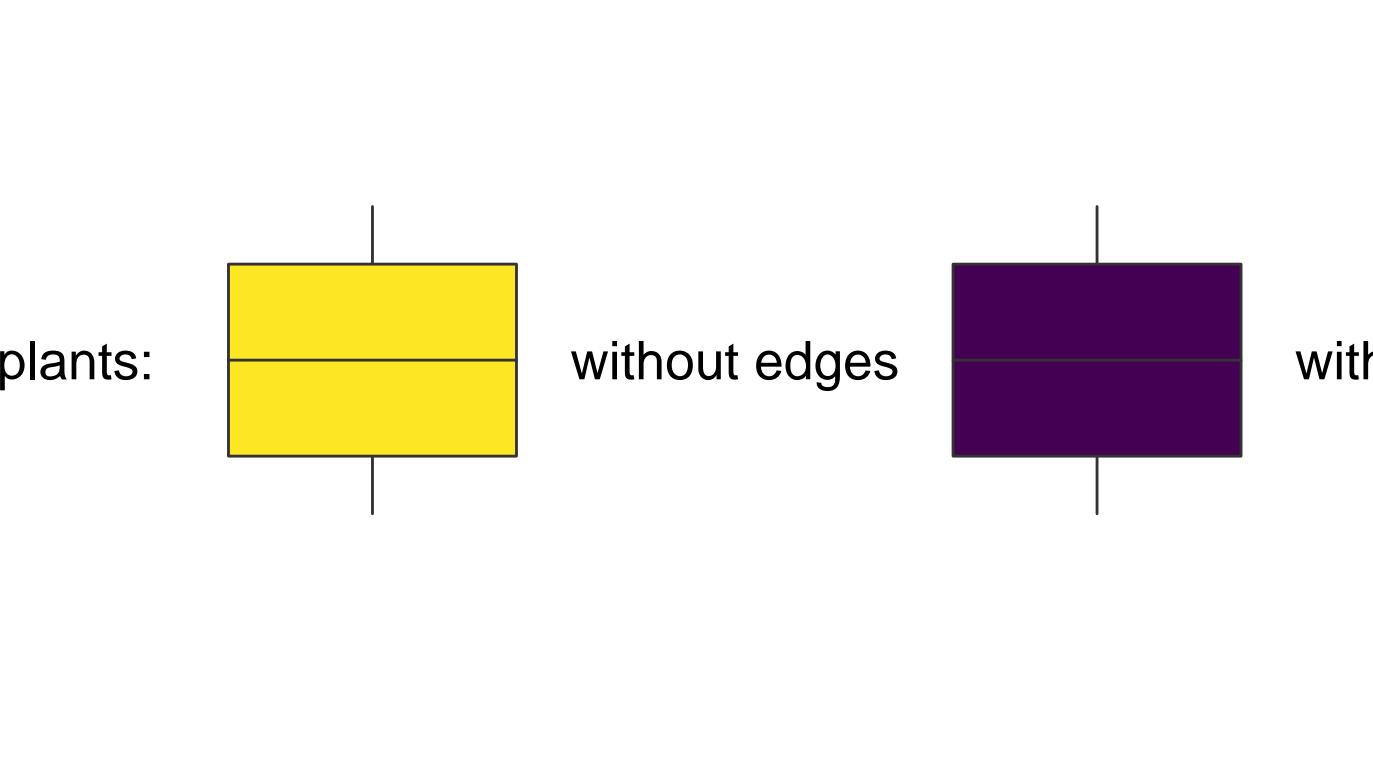
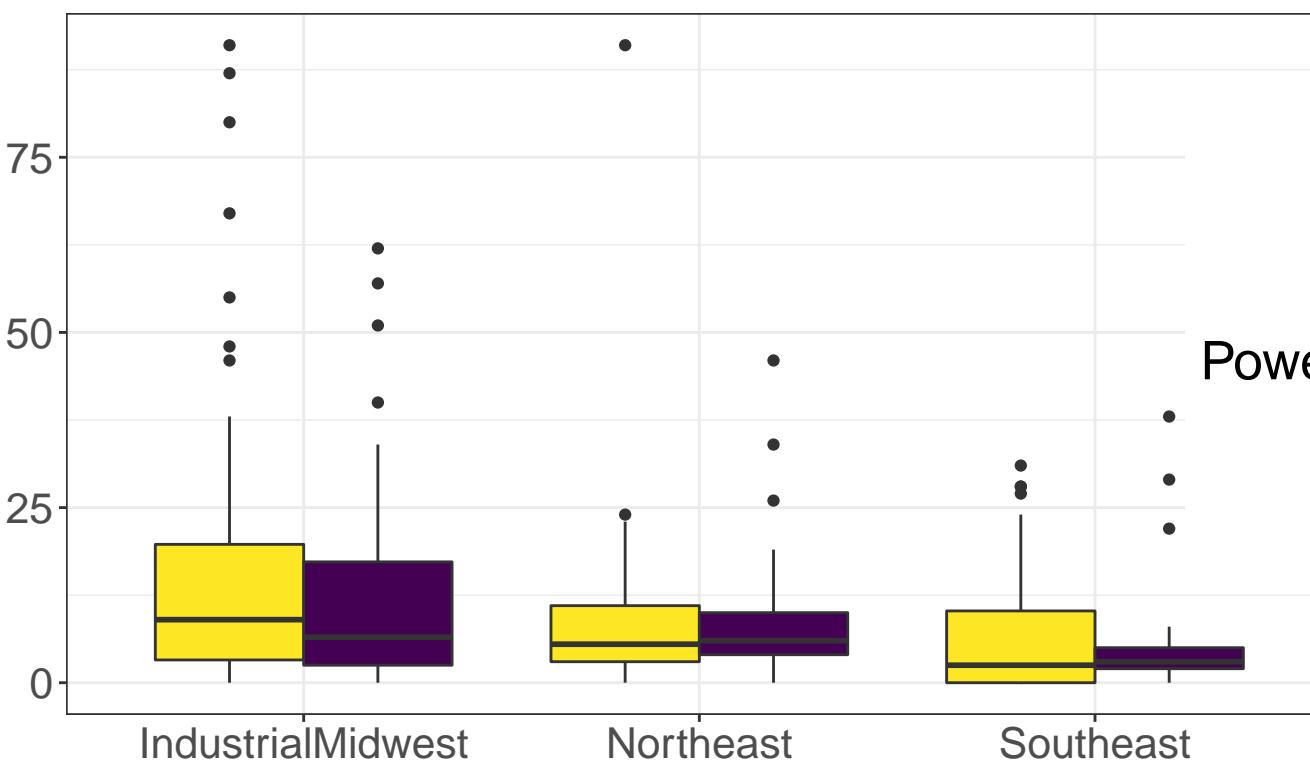
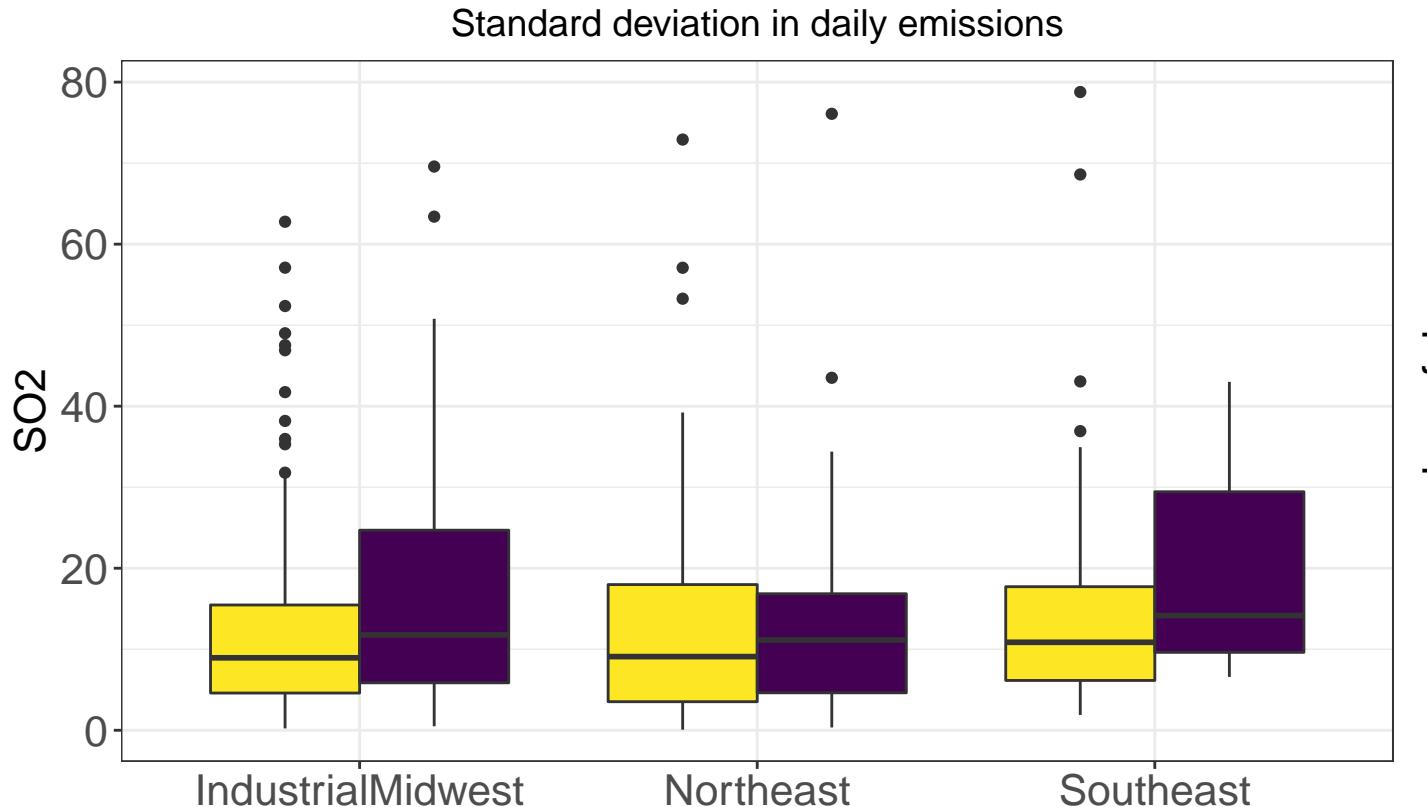
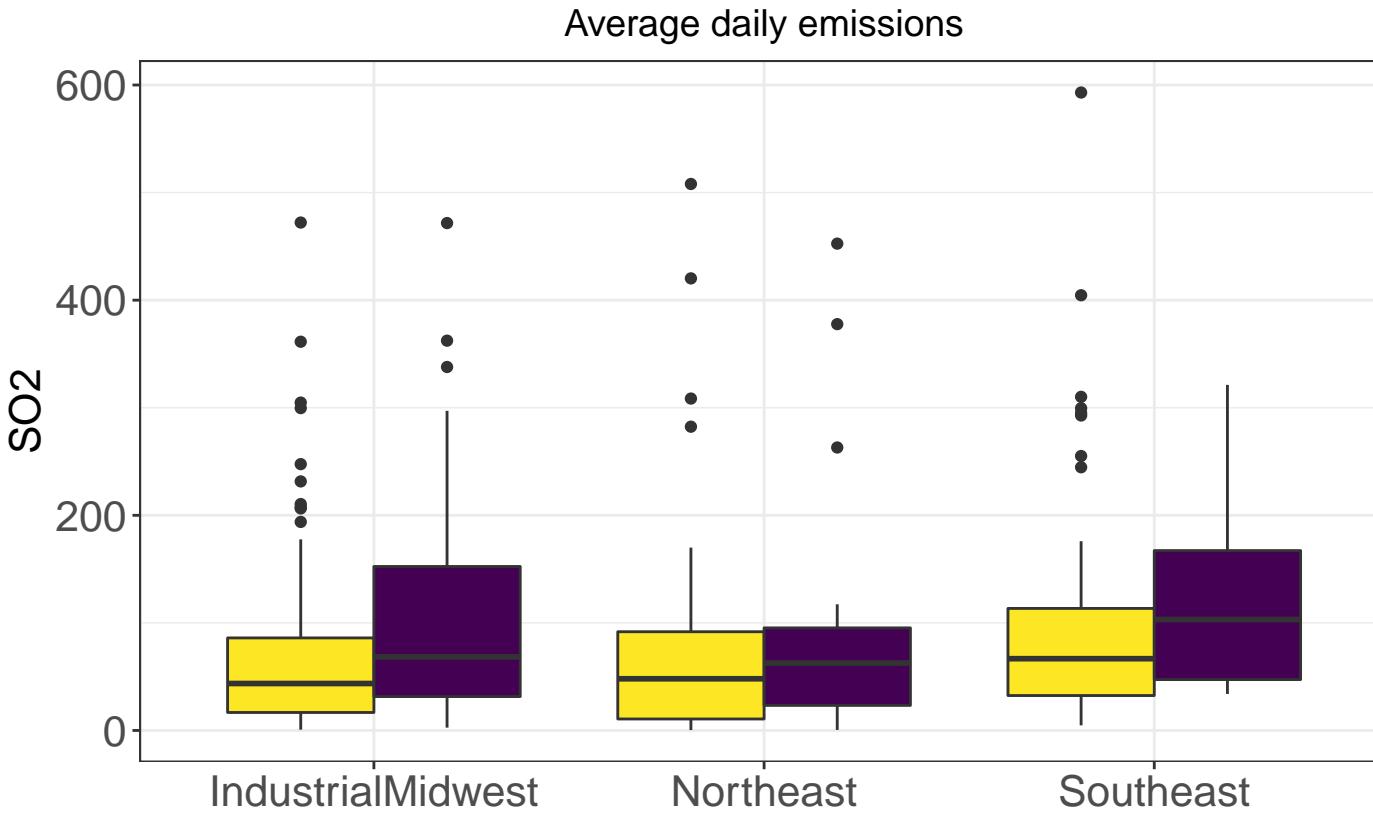
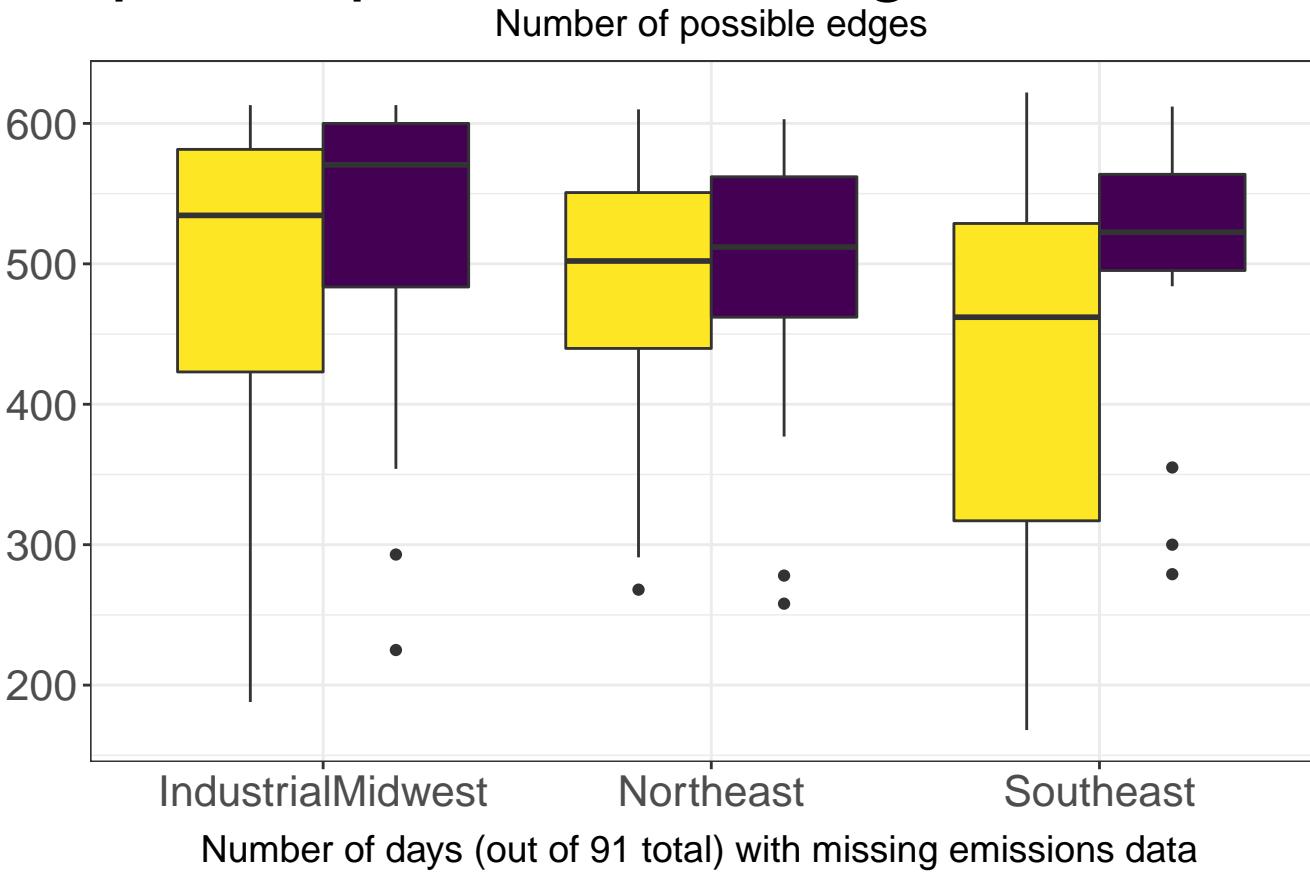
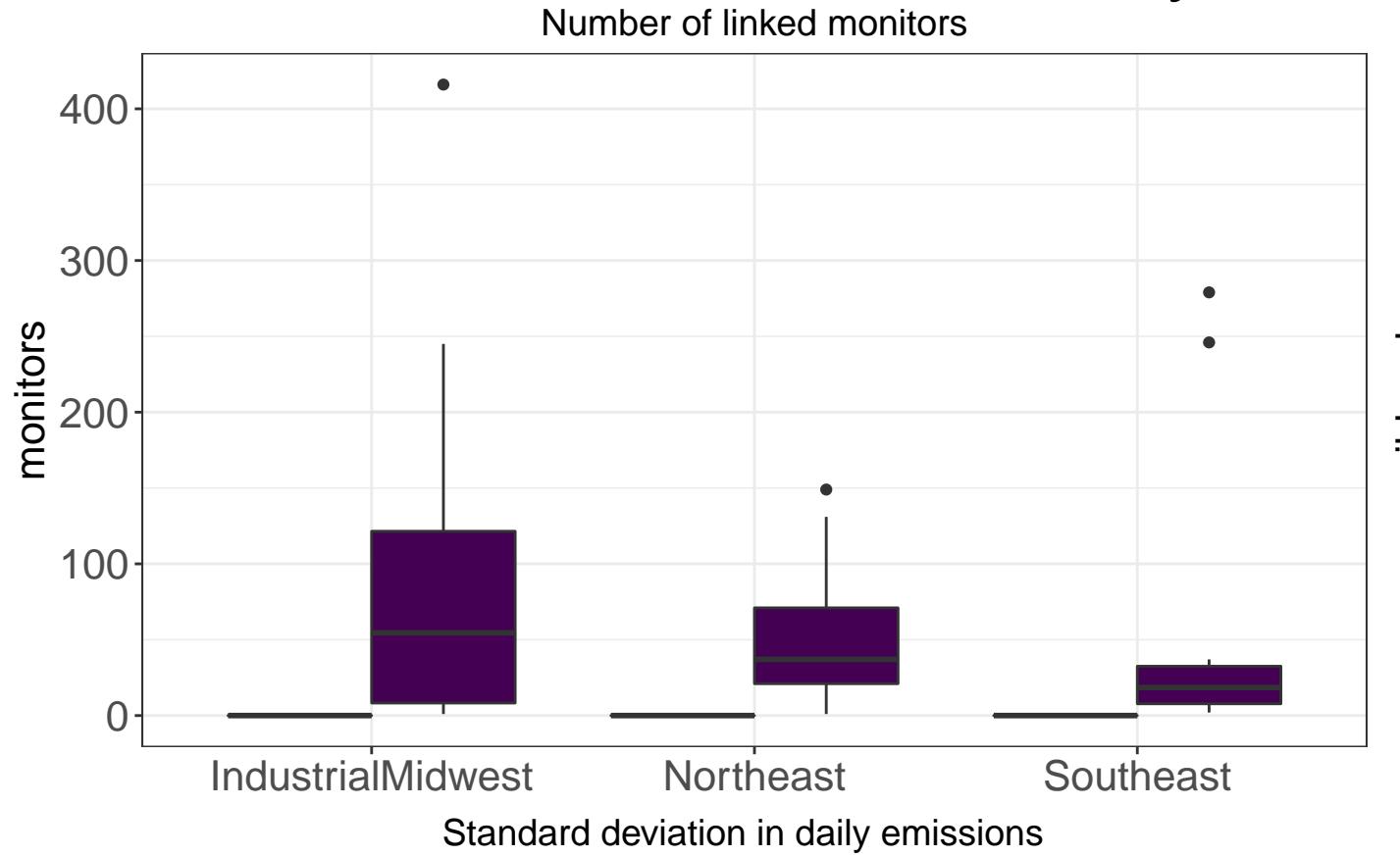


Distance to Source (km)    750–1000    500–750    250–500    0–250

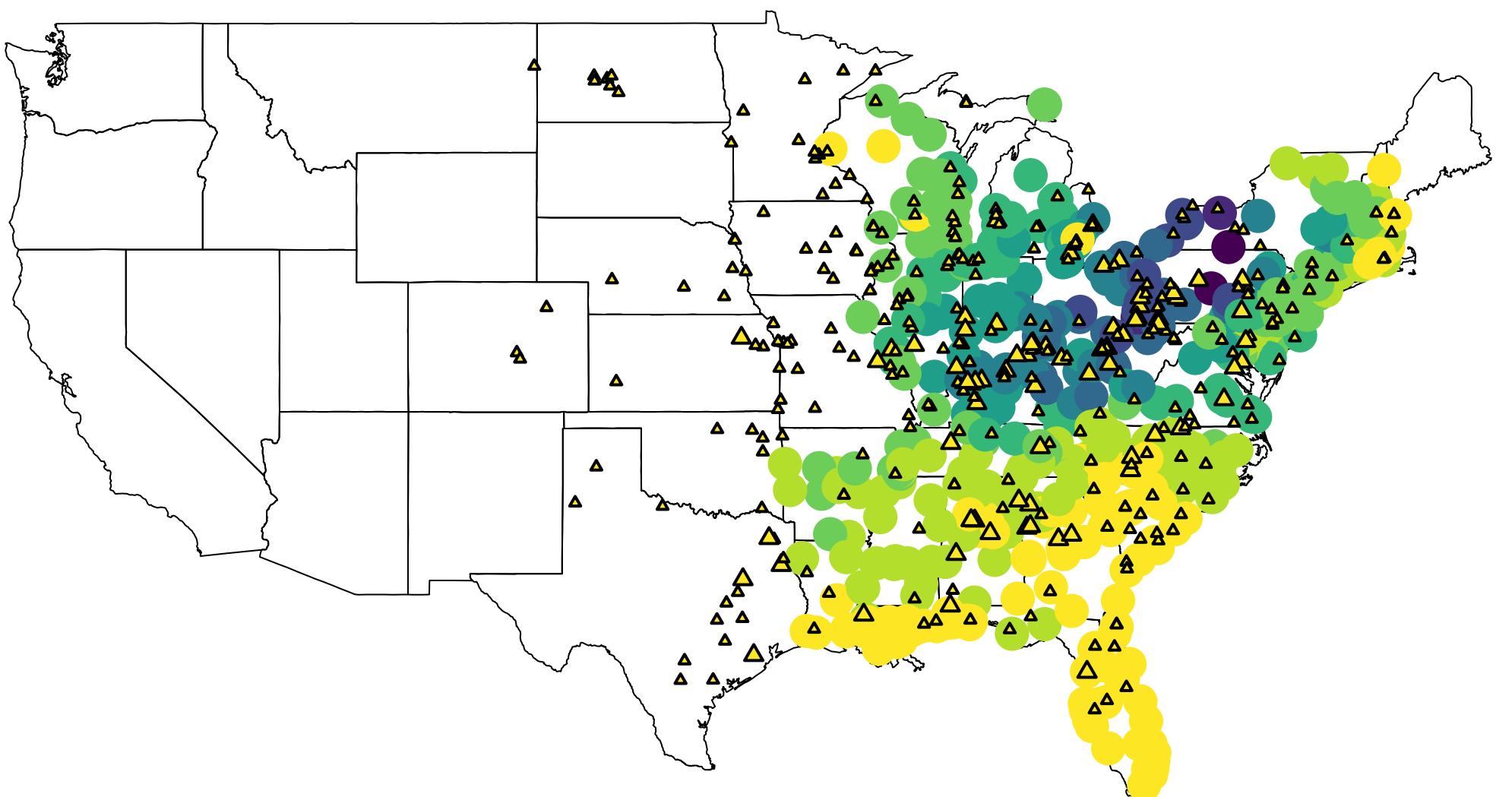
Distance to Source (km)    750–1000    500–750    250–500    0–250

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

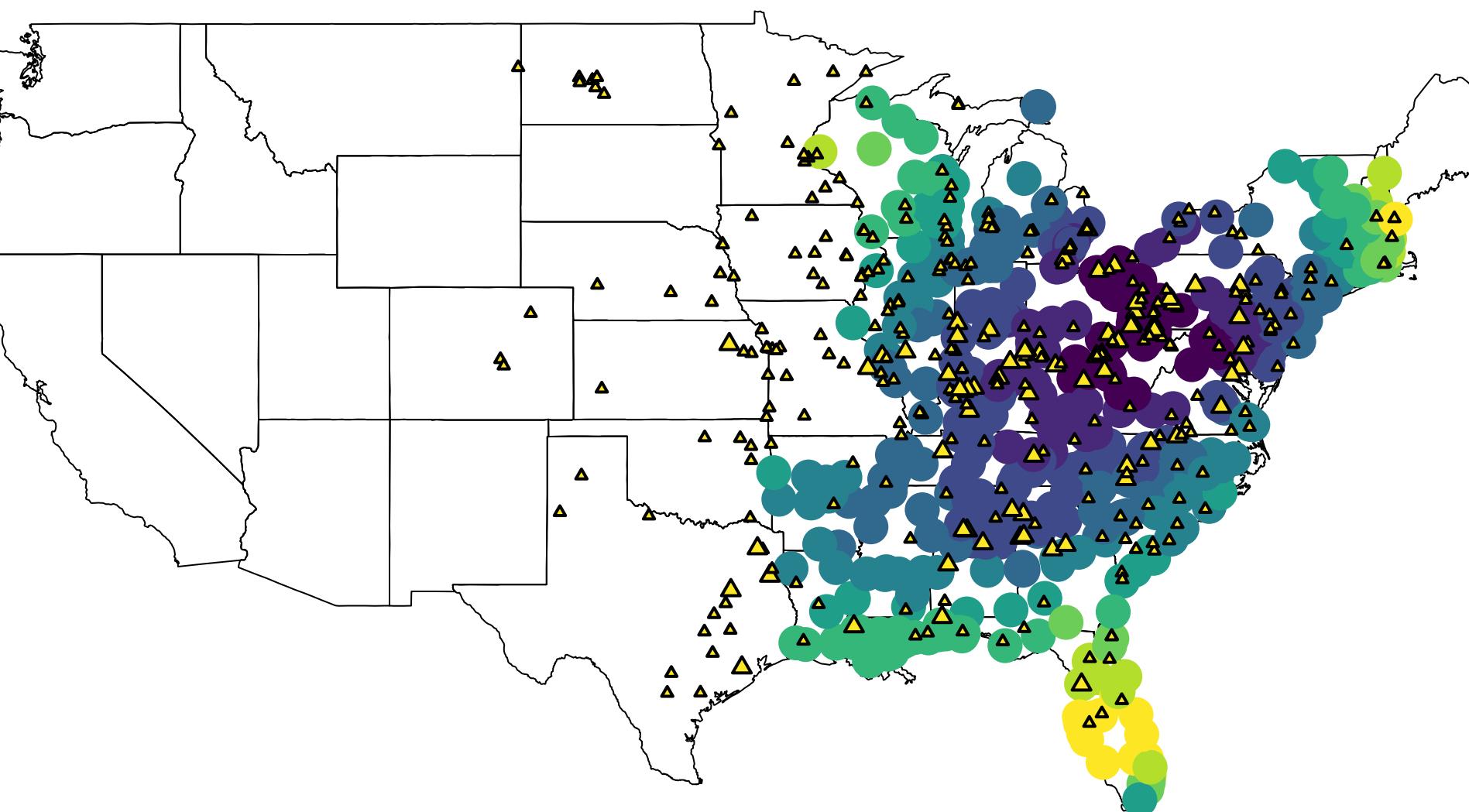
# Why do some power plants have edges and others do not?



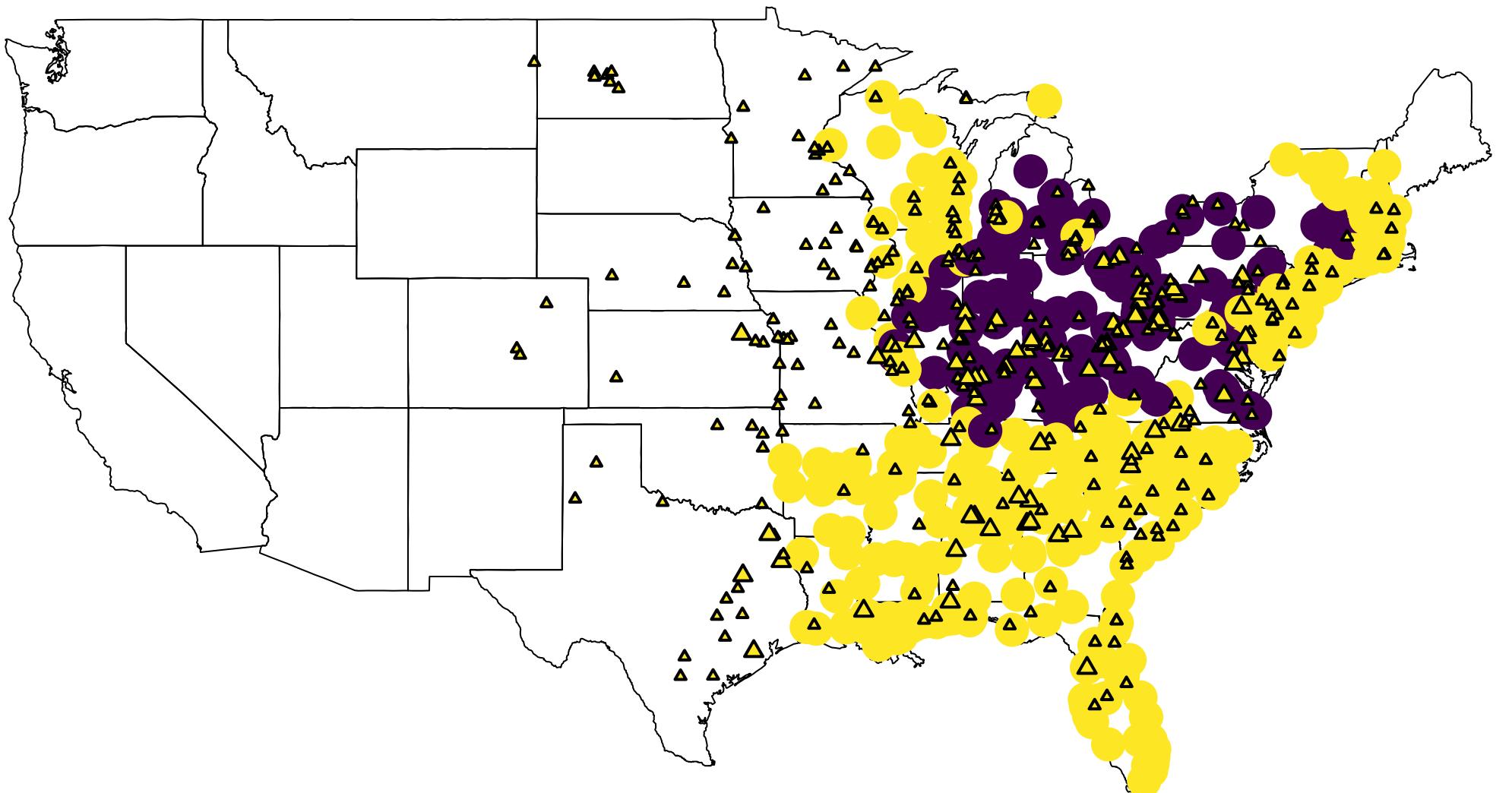
**Monitor exposure: sum of gams.coeff, summer 2005**



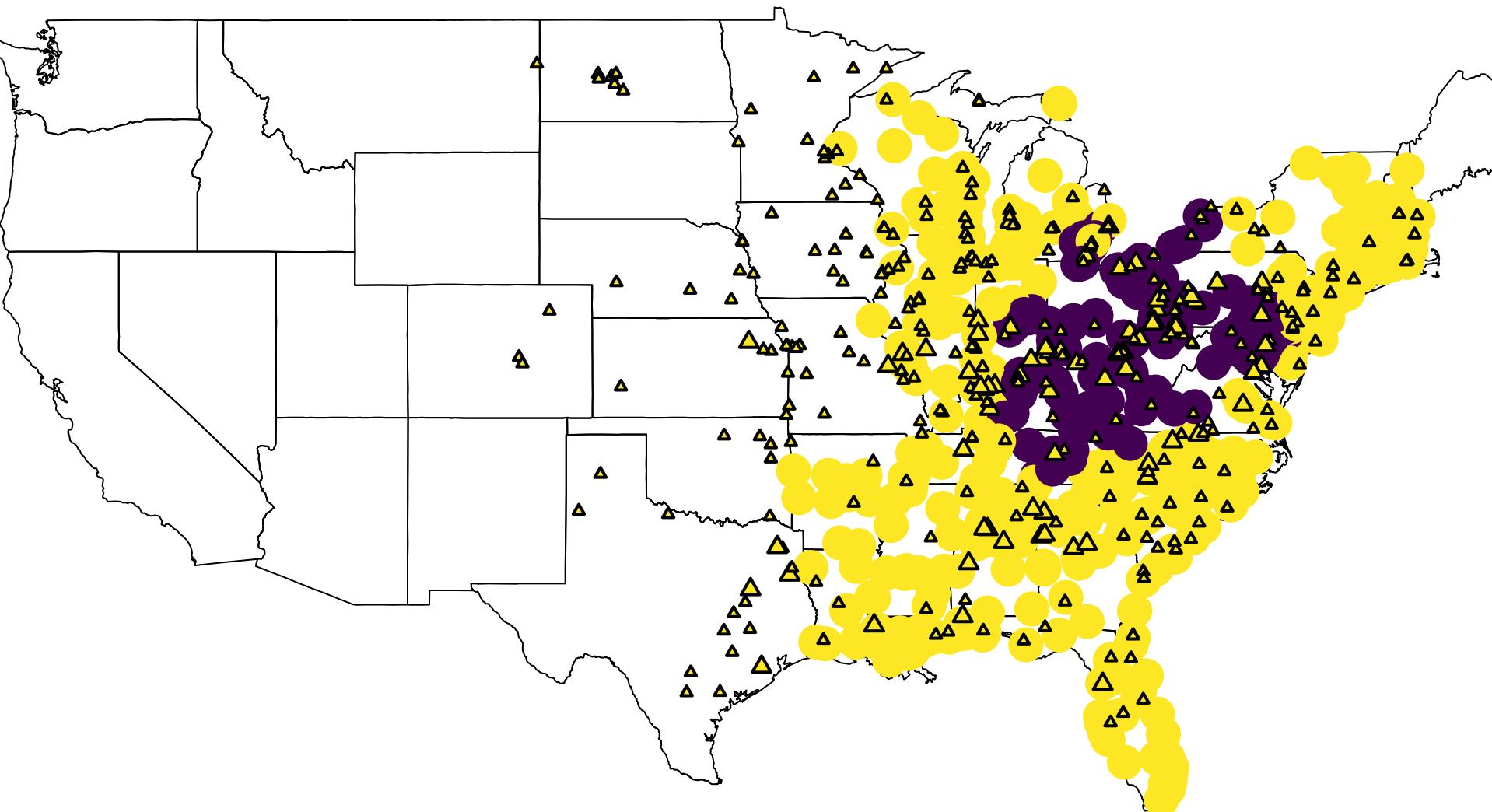
**Monitor exposure: avgPM, decomposed75 summer 2005**



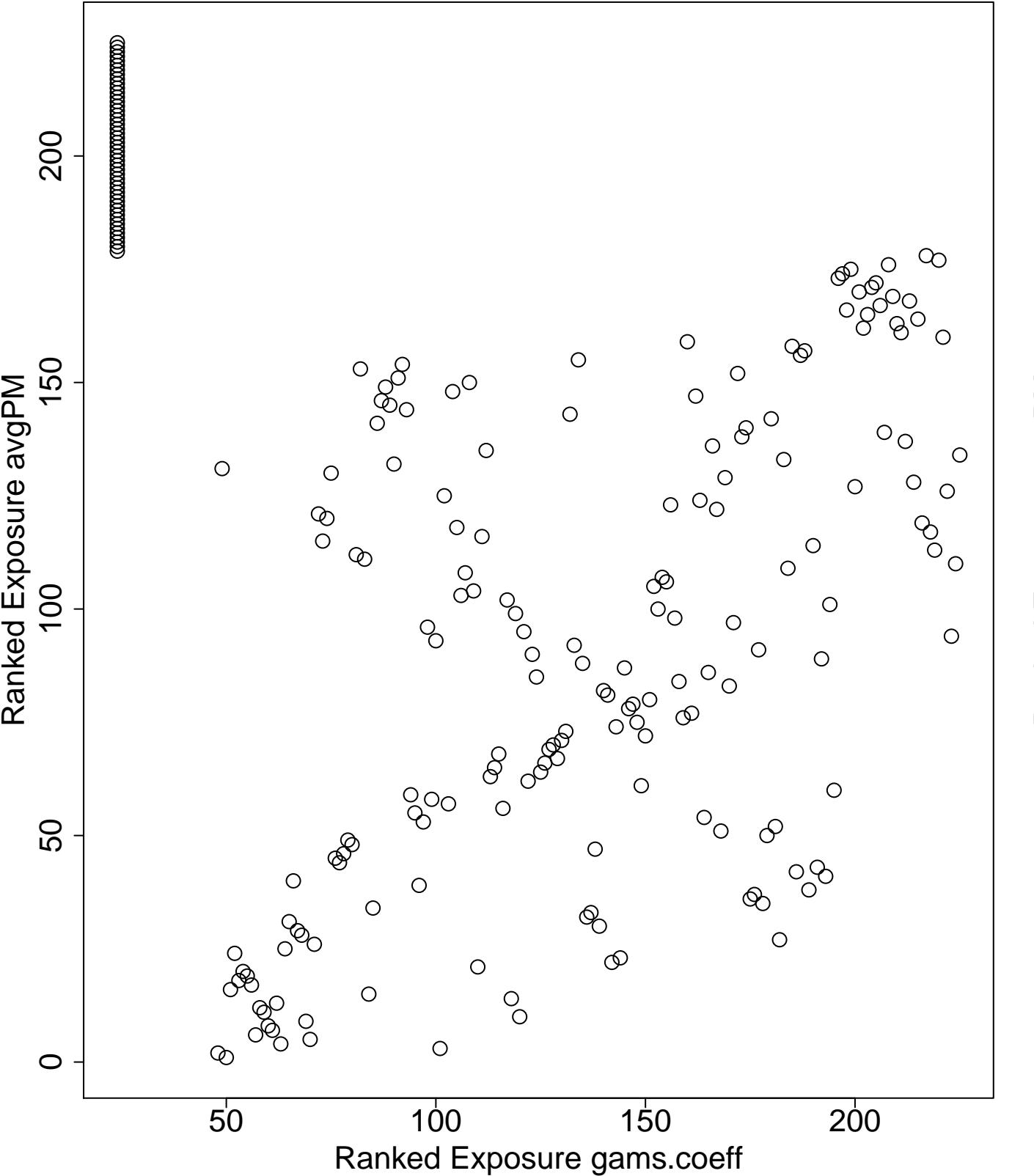
**Highest exposed: sum of gams.coeff, summer 2005**



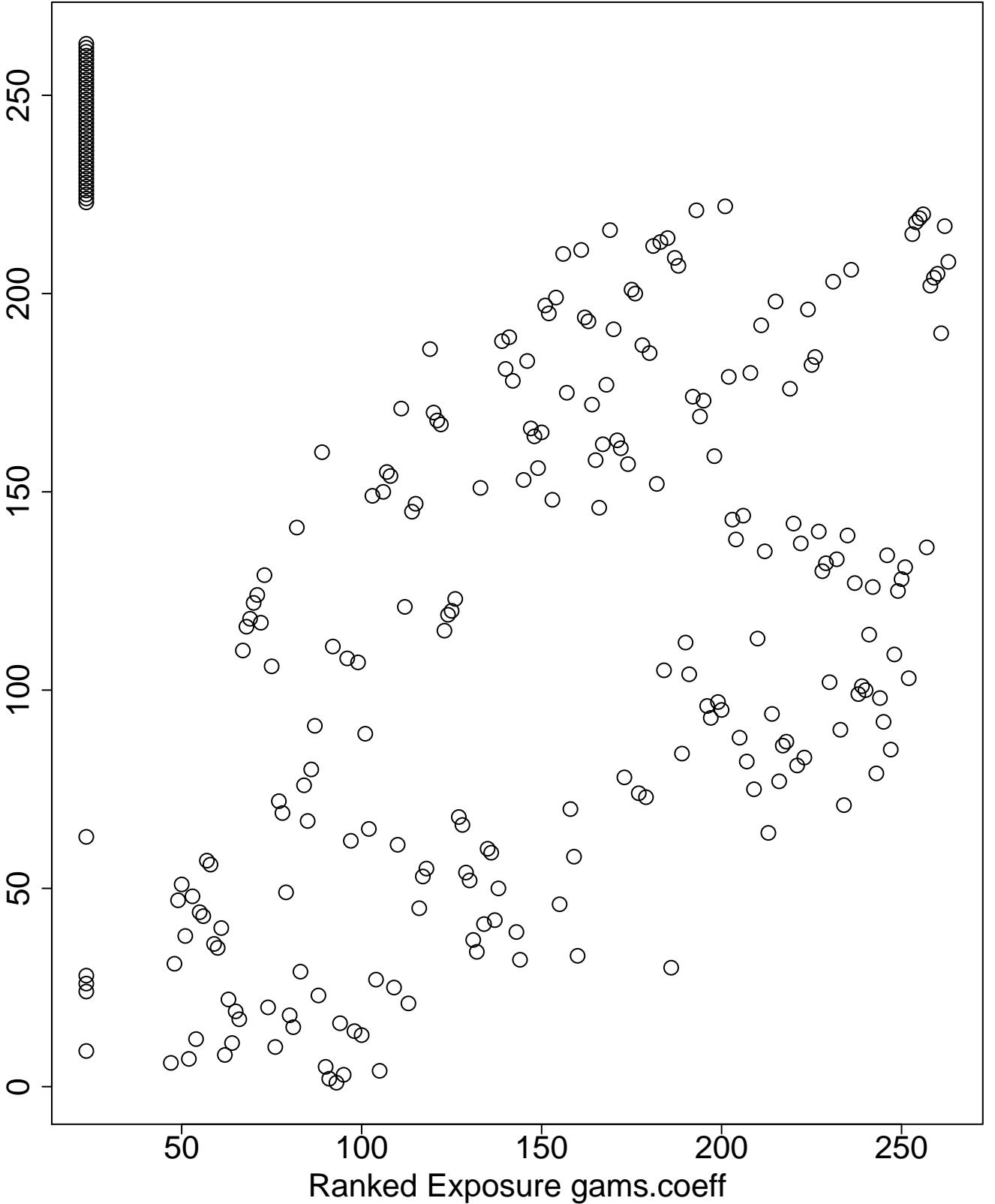
**Highest exposed: avgPM, decomposed75 summer 2005**



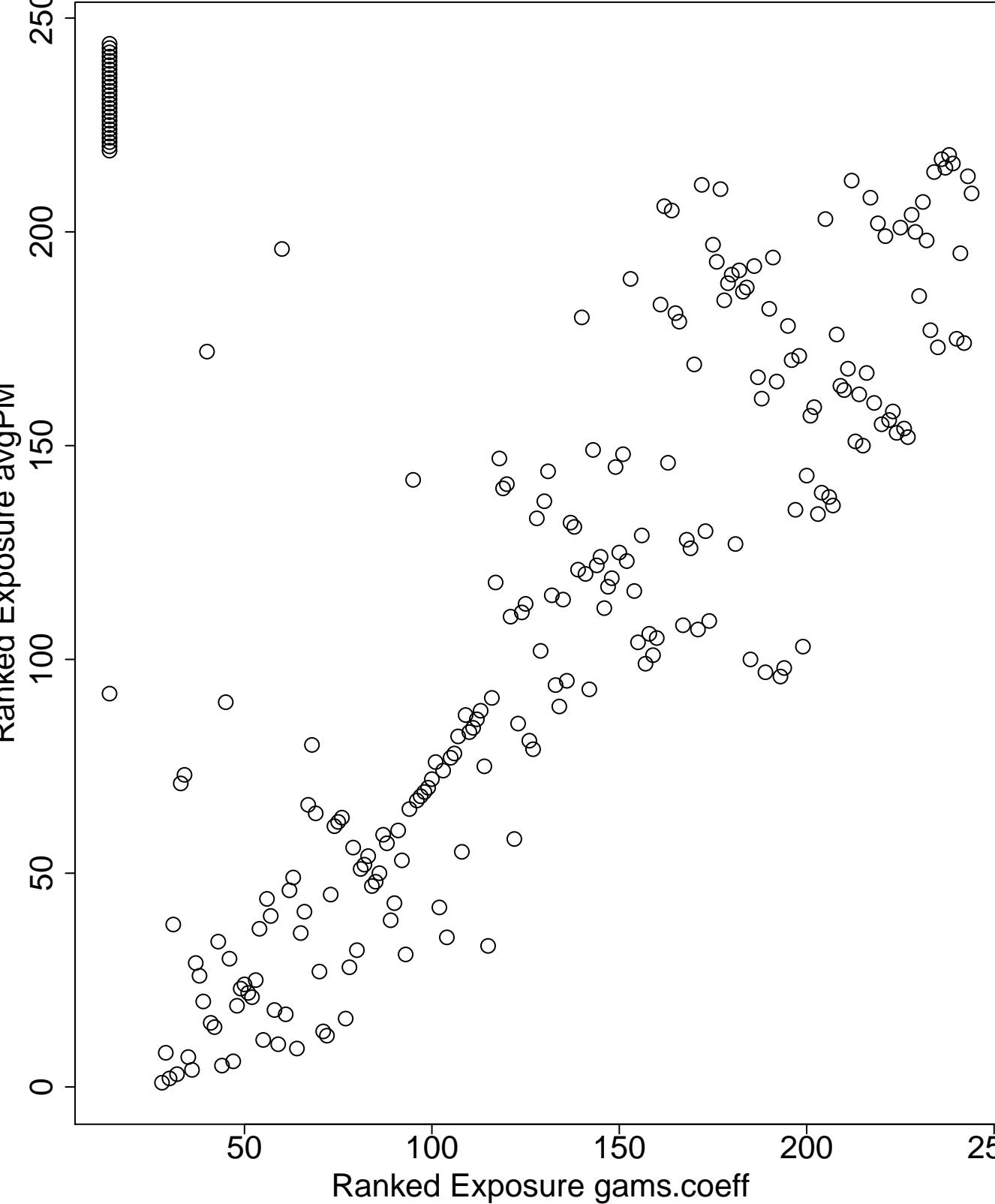
**Northeast correlation = 0.55**



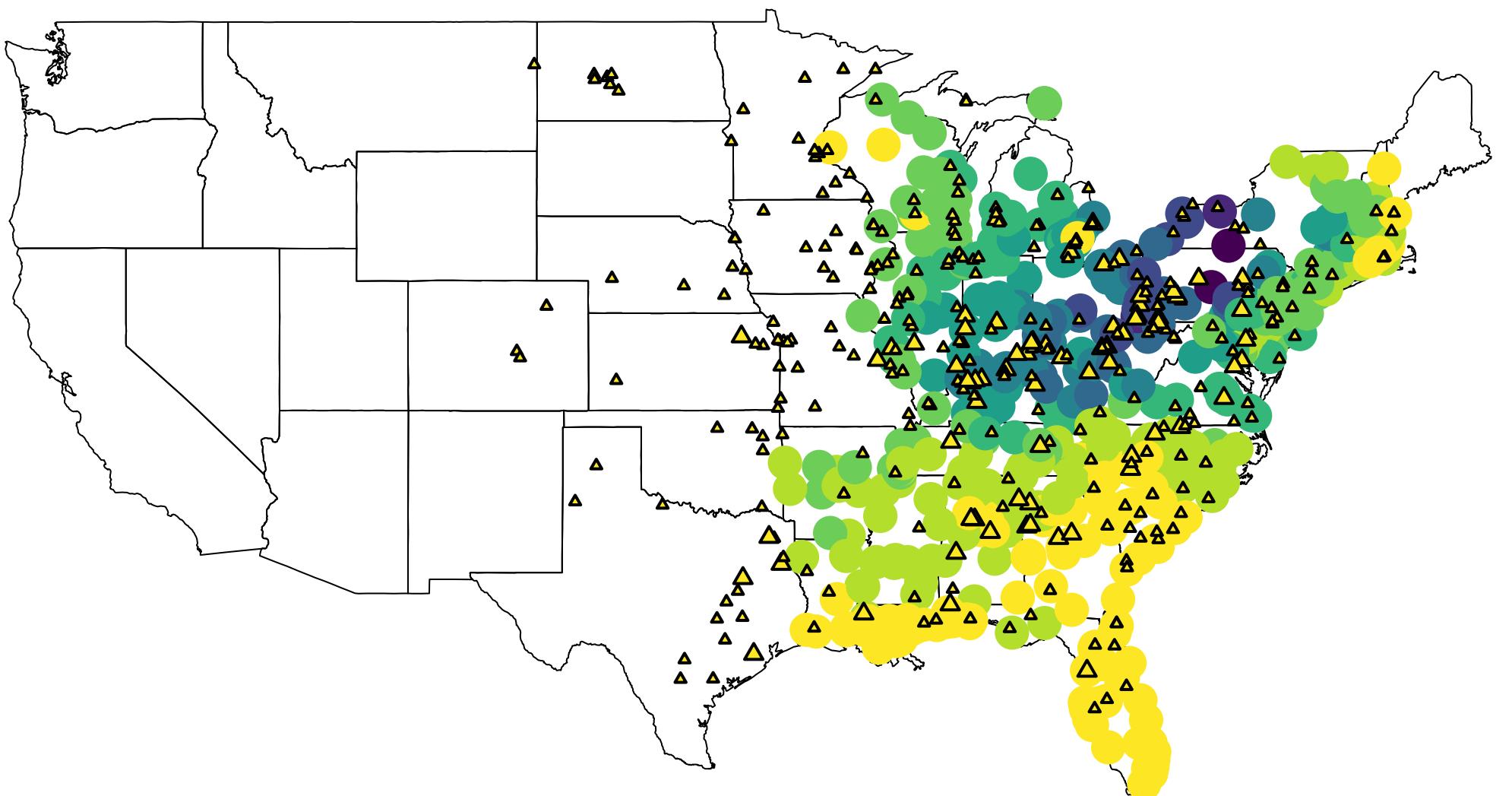
**Southeast correlation = 0.53**



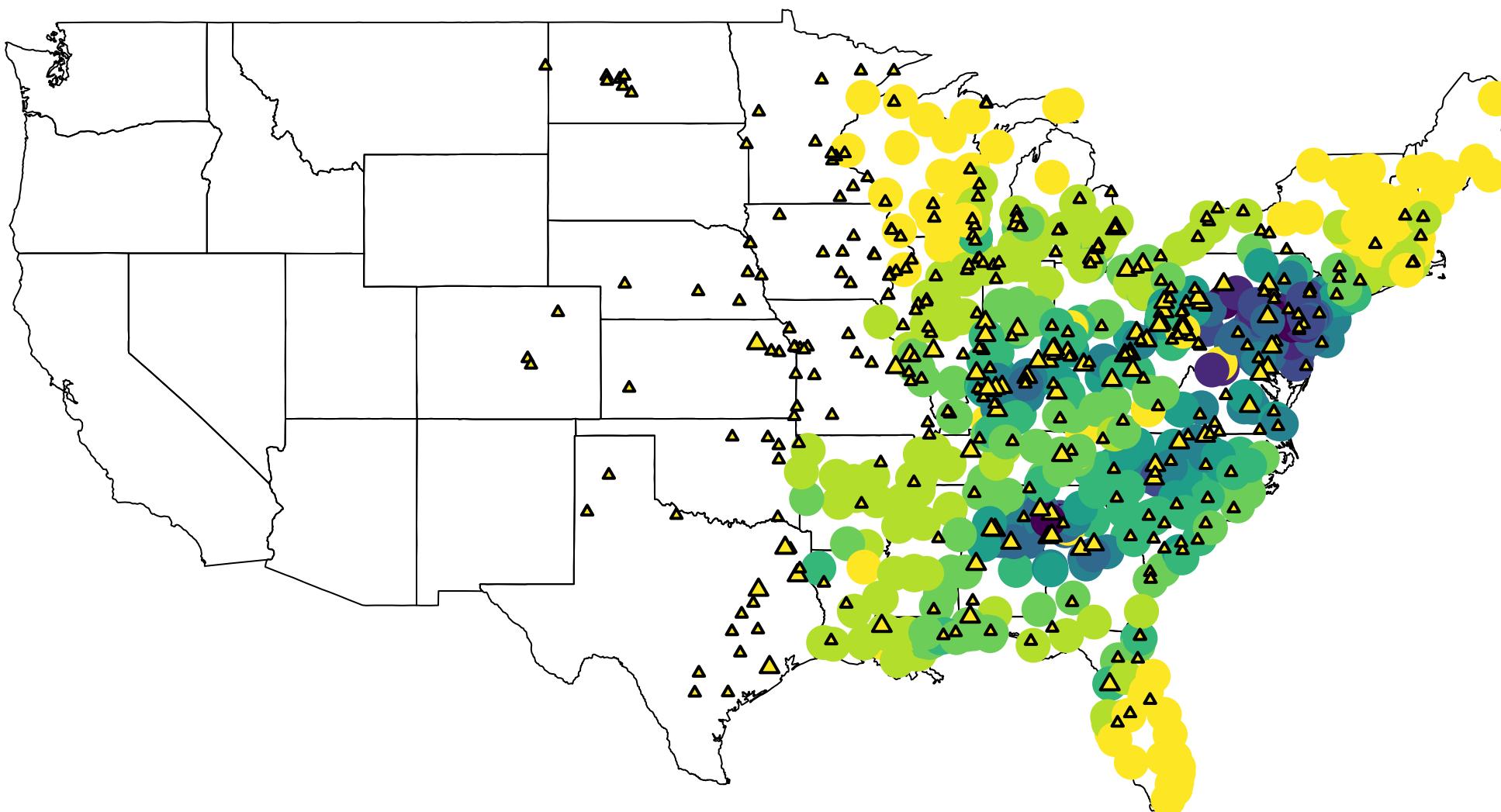
**IndustrialMidwest correlation = 0.87**



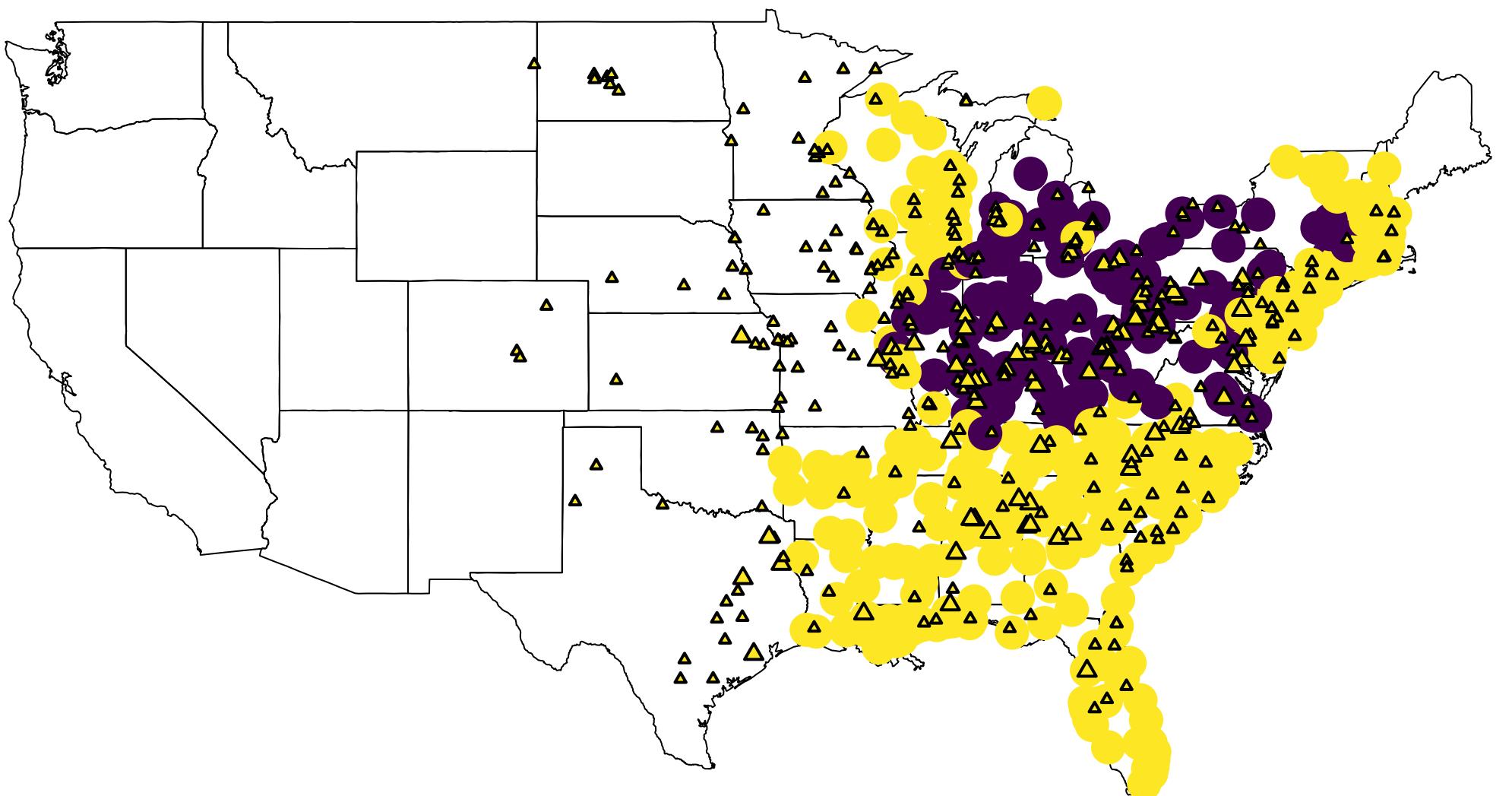
**Monitor exposure: sum of gams.coeff, summer 2005**



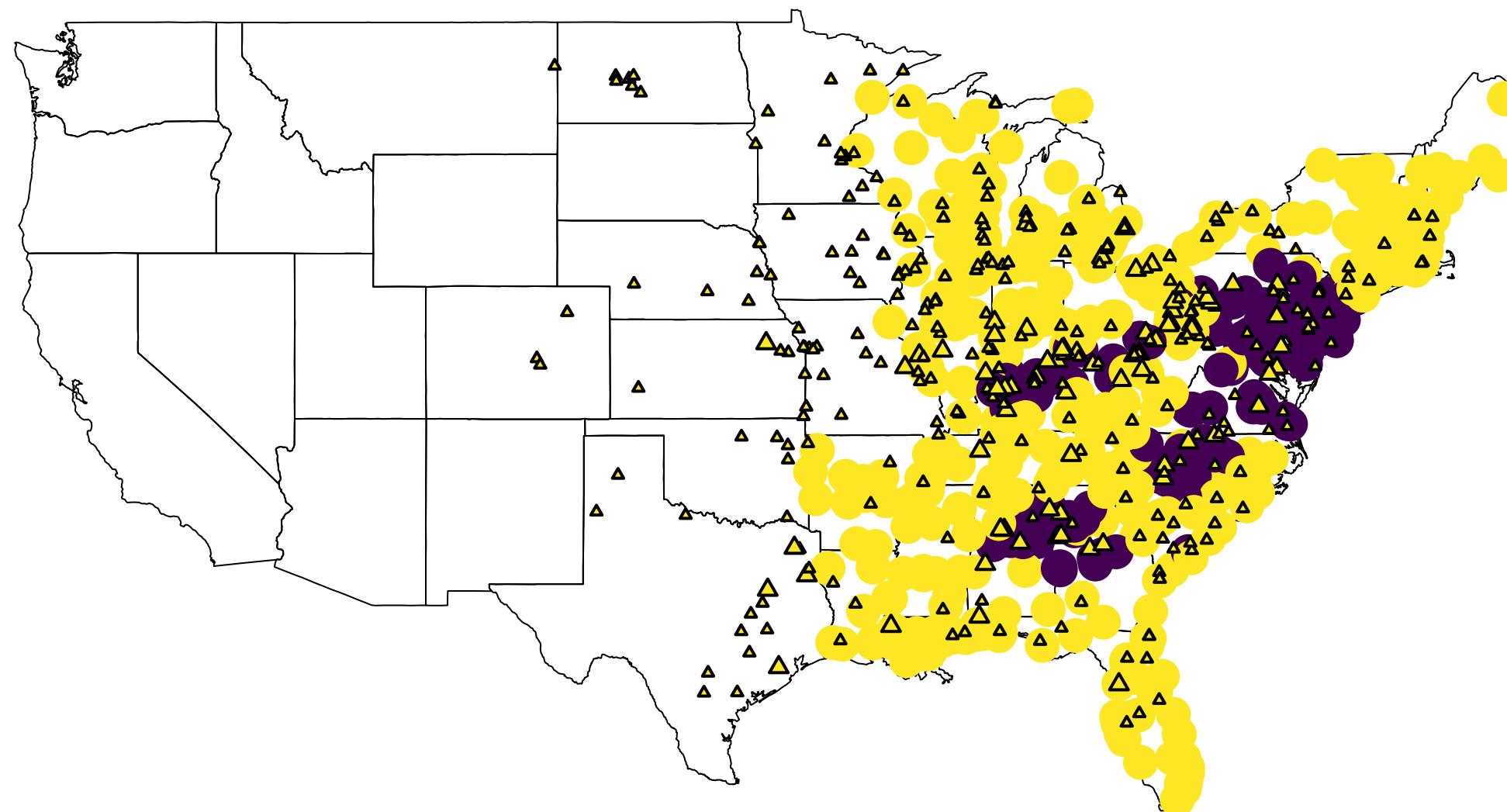
**Monitor exposure: annual coal emissions (InMAP)**

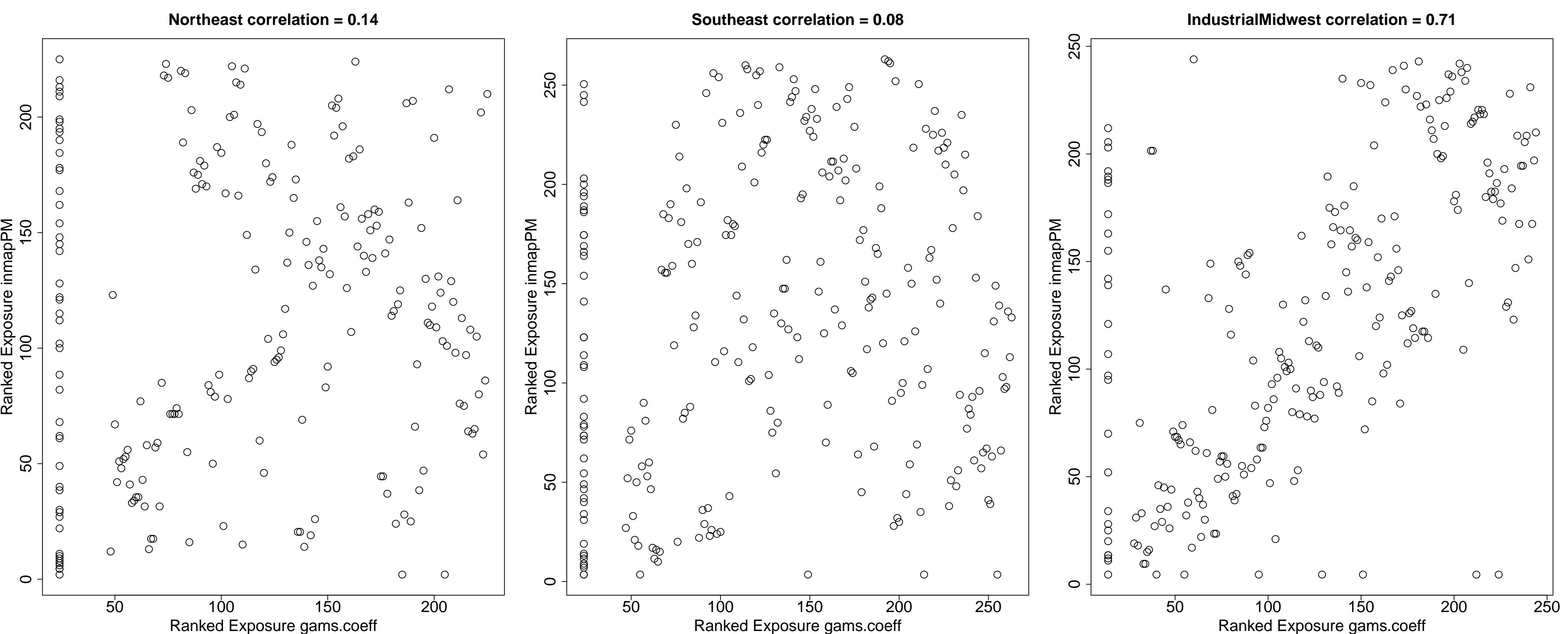


**Highest exposed: sum of gams.coeff, summer 2005**

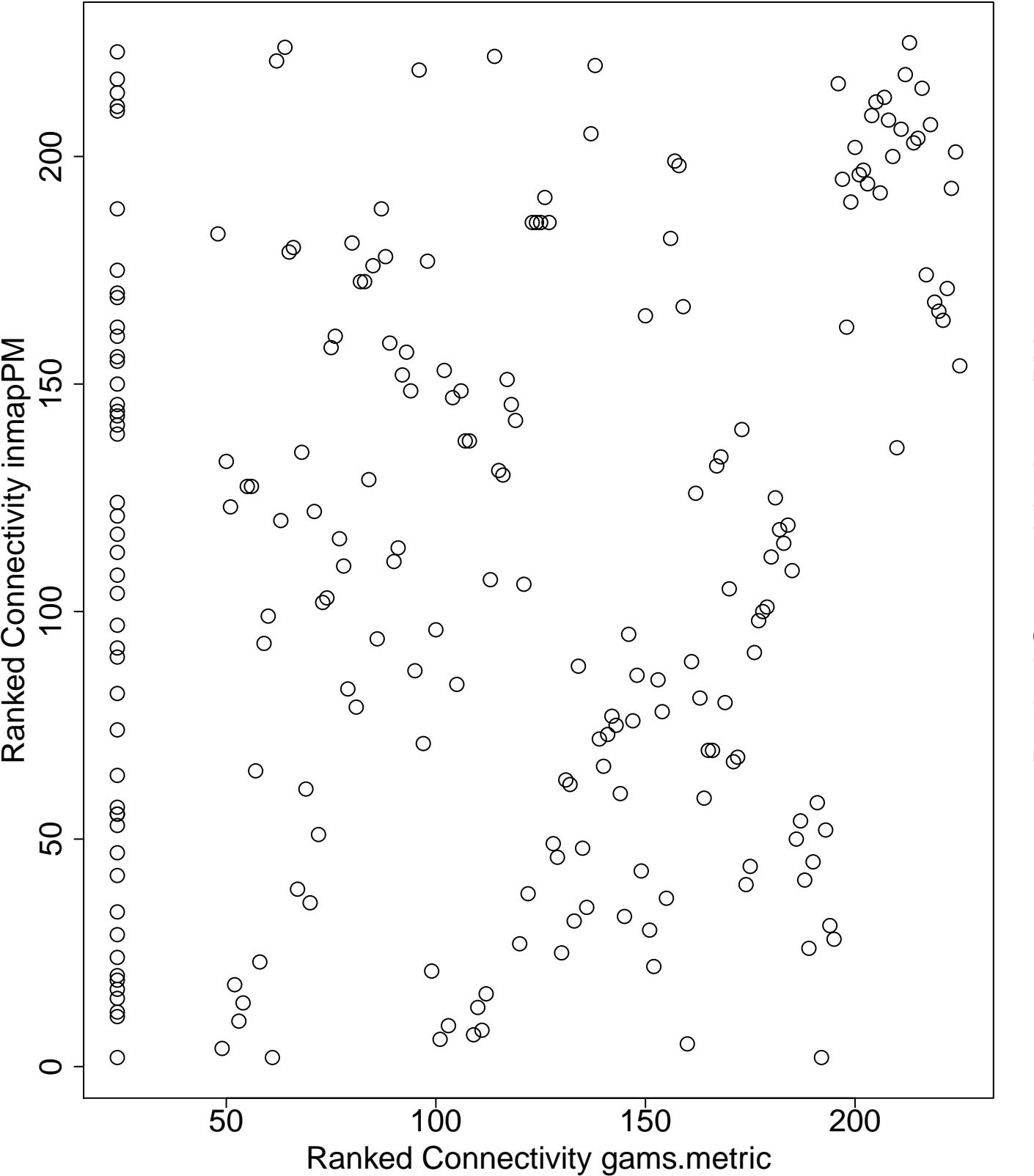


**Highest exposed: annual coal emissions (InMAP)**

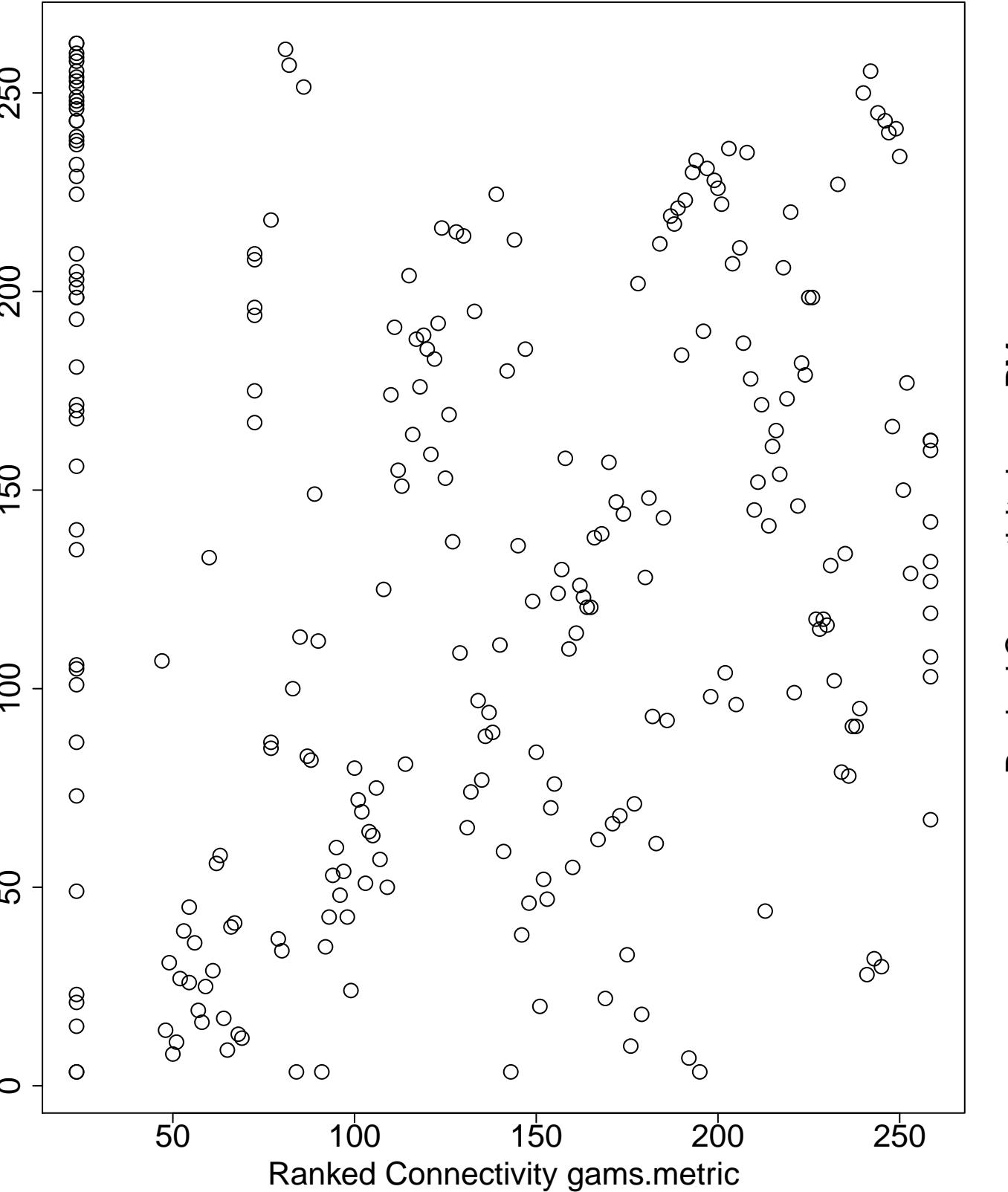




**Northeast correlation = 0.18**



**Southeast correlation = 0.04**



**IndustrialMidwest correlation = 0.36**

