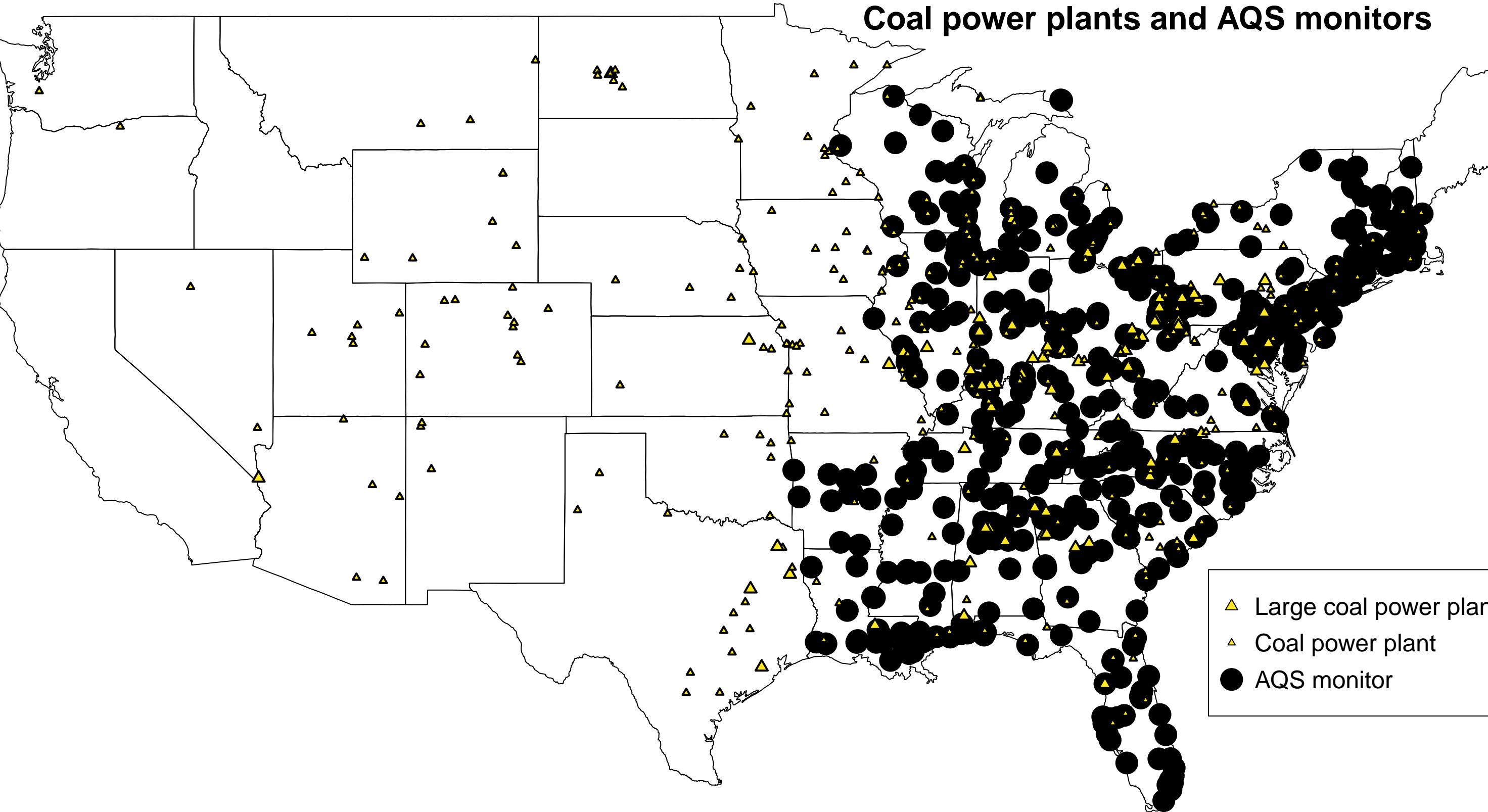
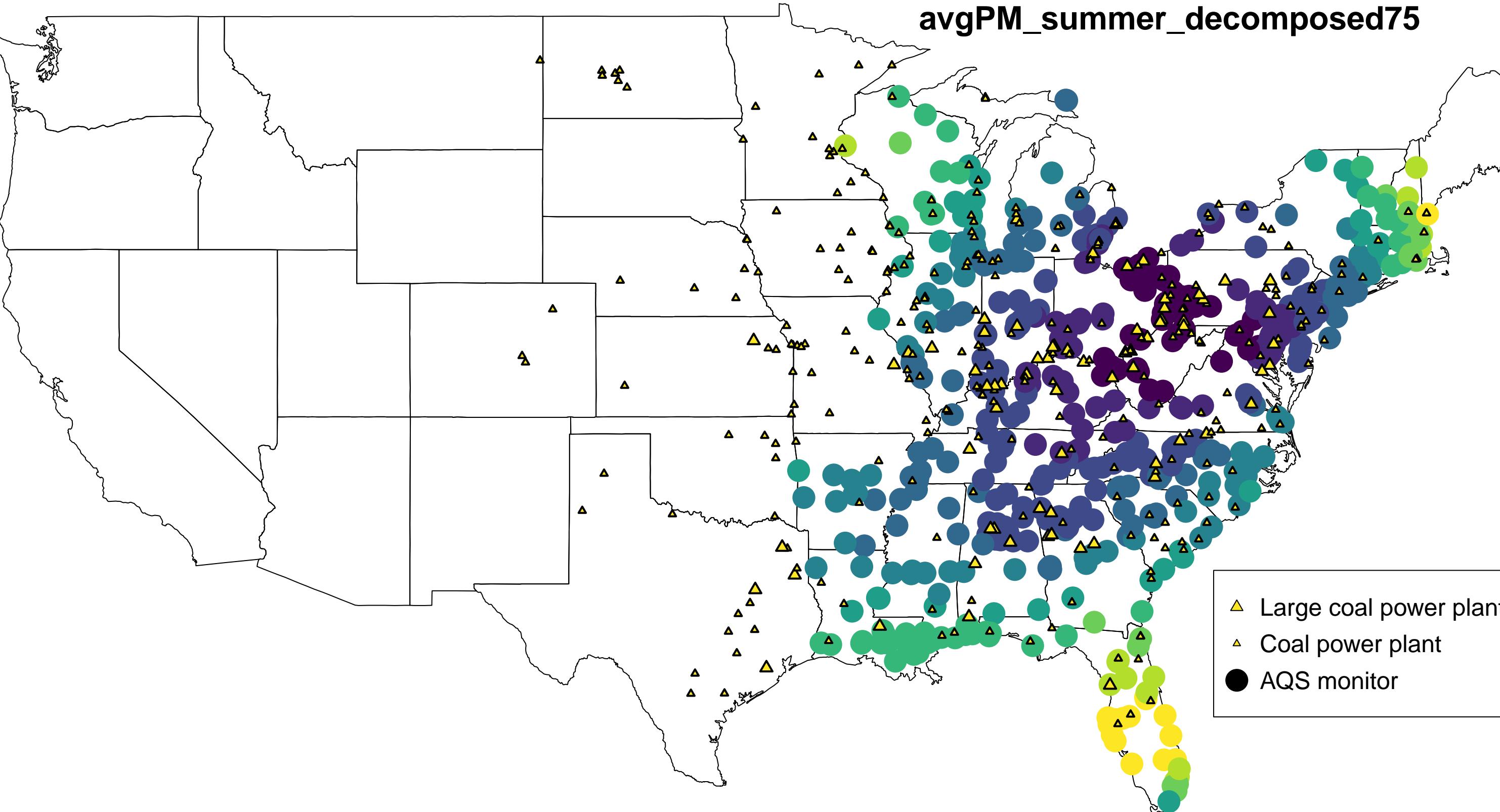


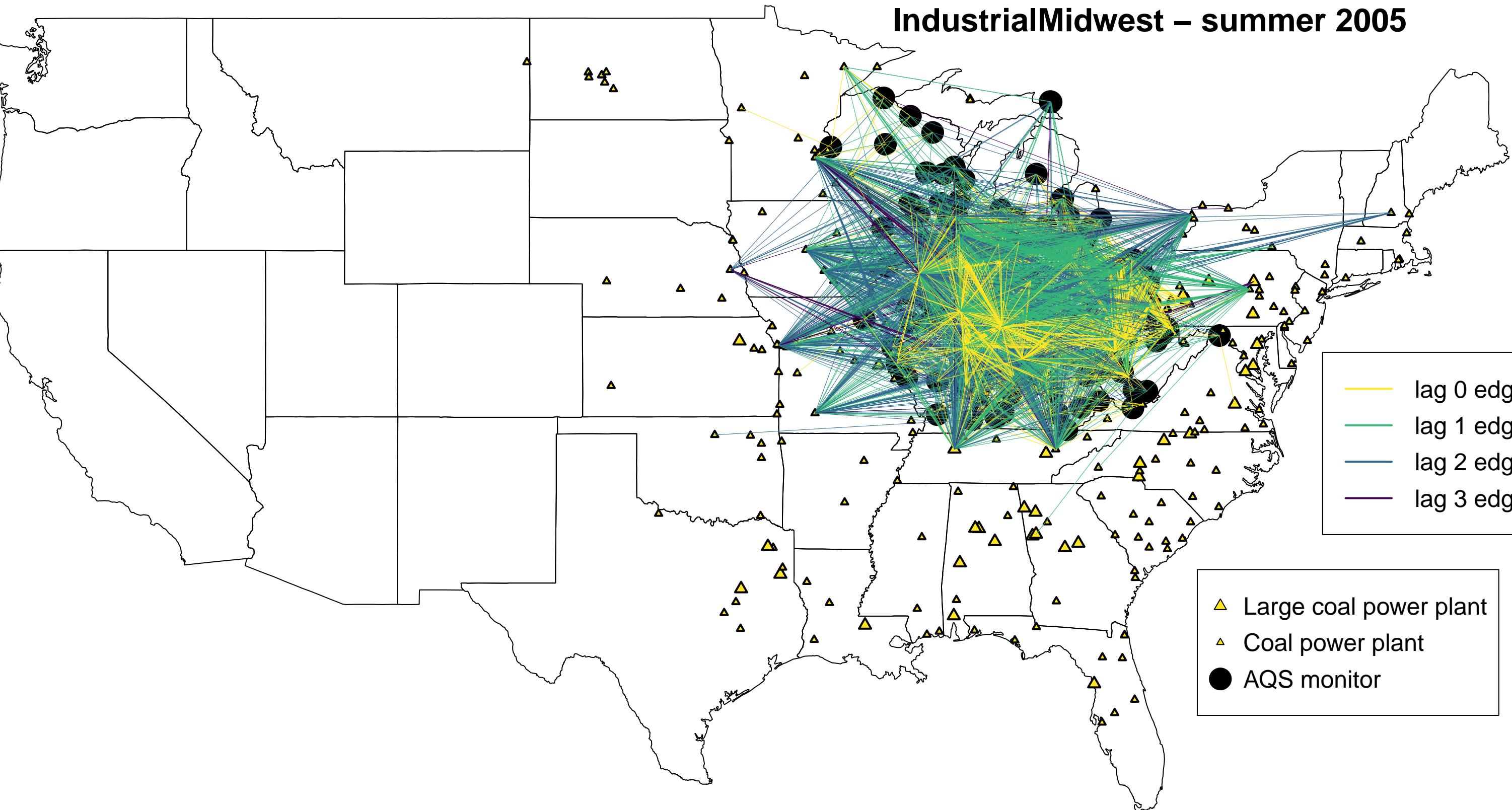
## Coal power plants and AQS monitors



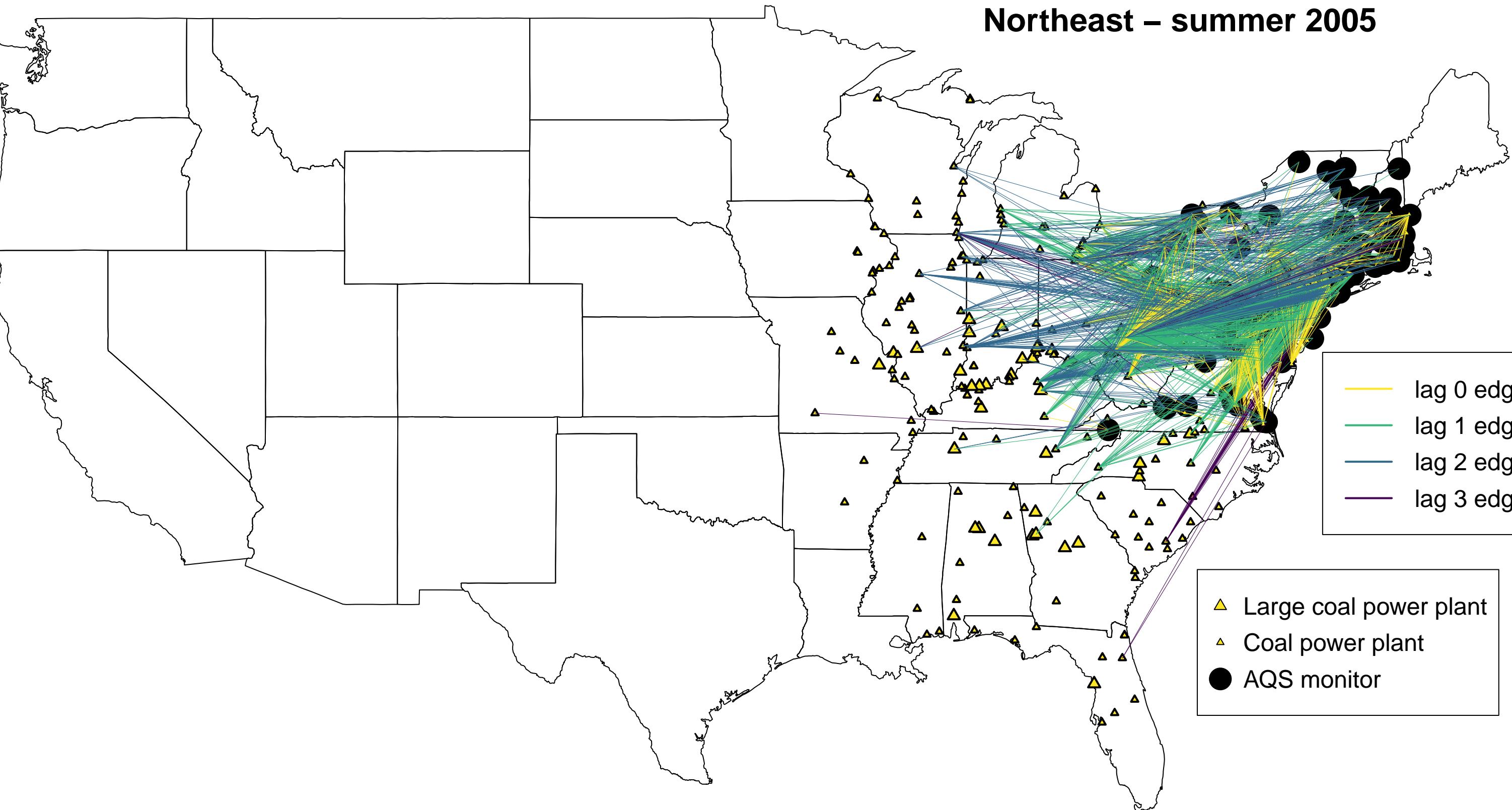
avgPM\_summer\_decomposed75



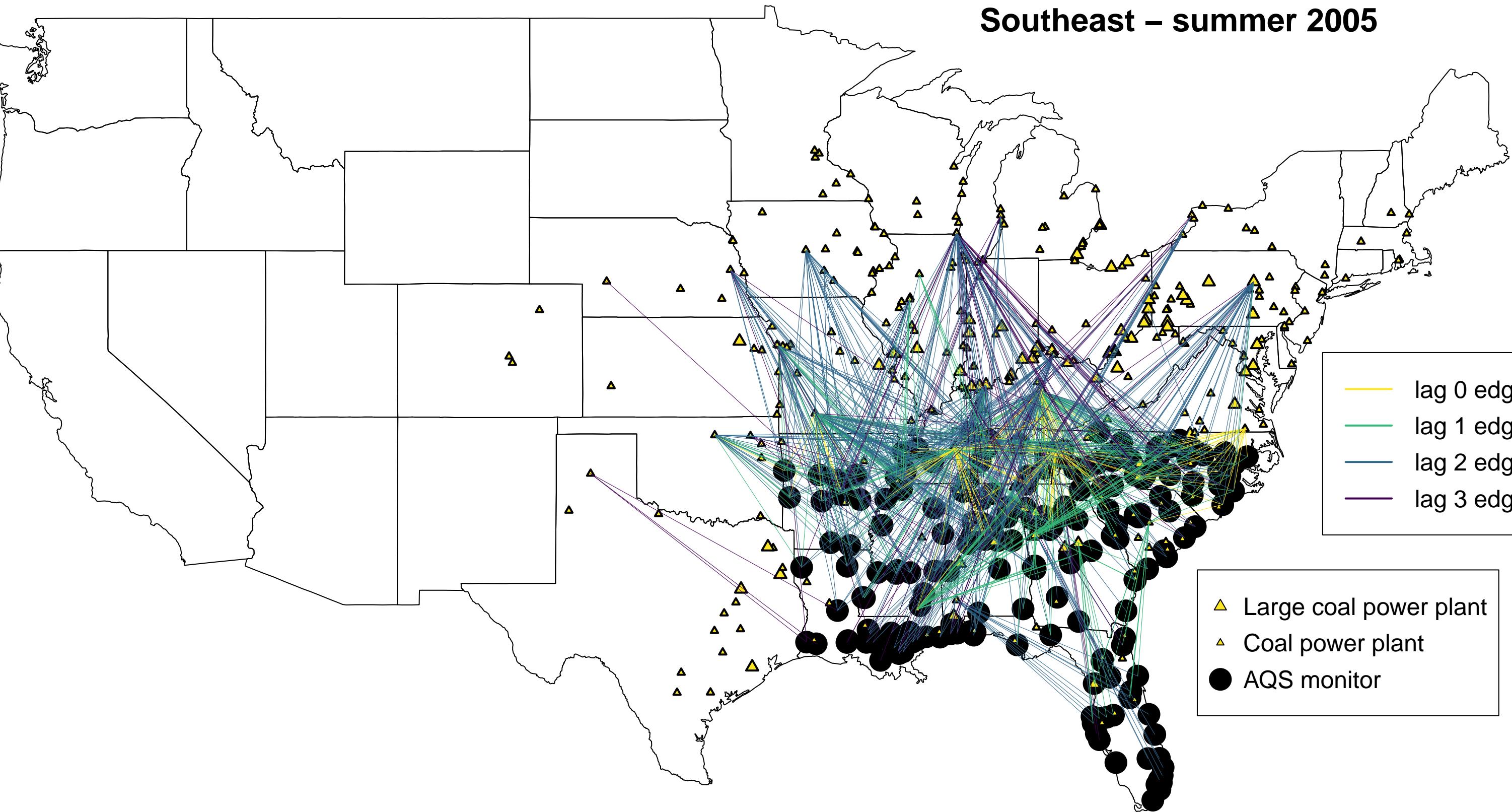
# IndustrialMidwest – summer 2005



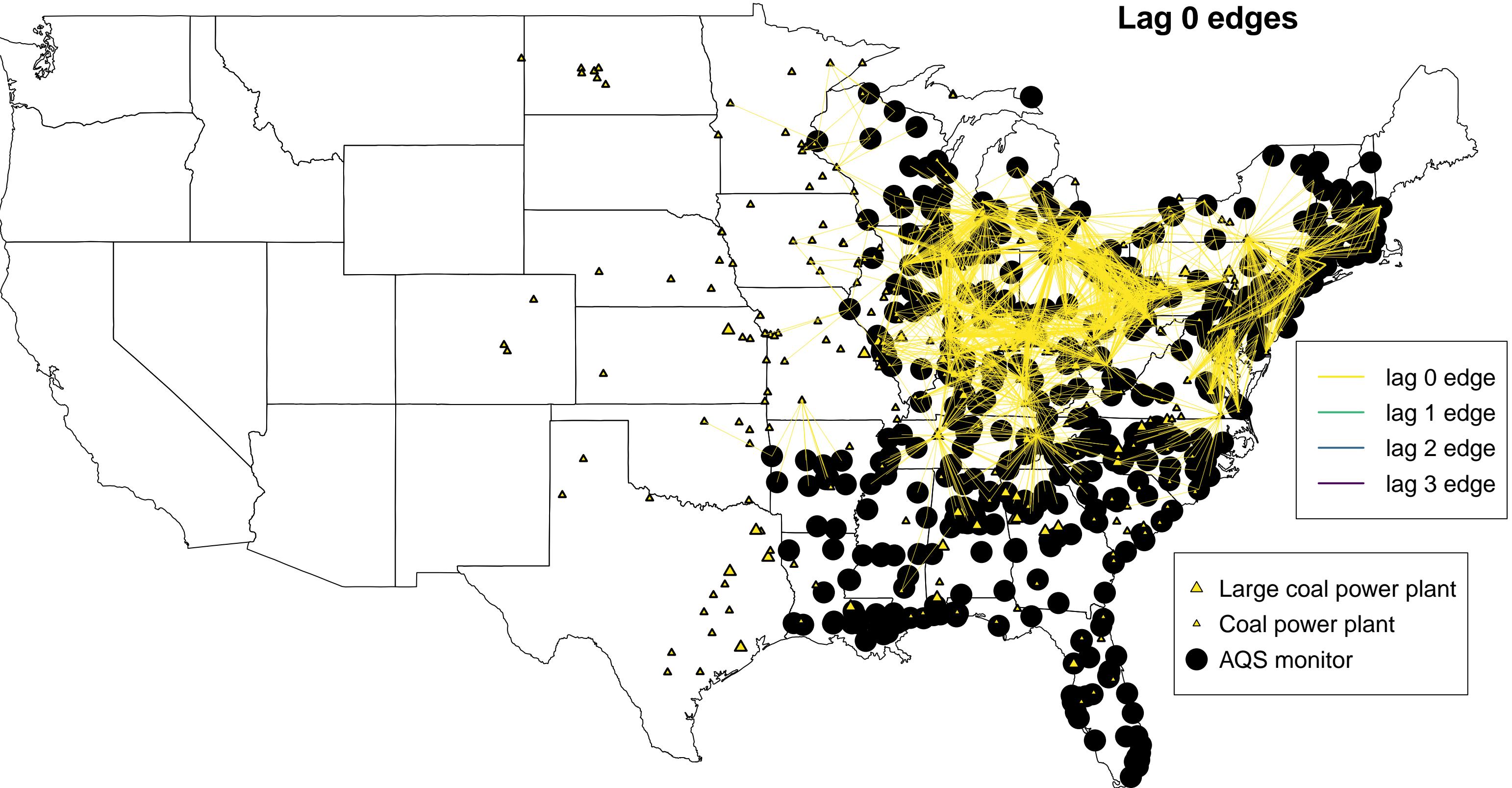
## Northeast – summer 2005



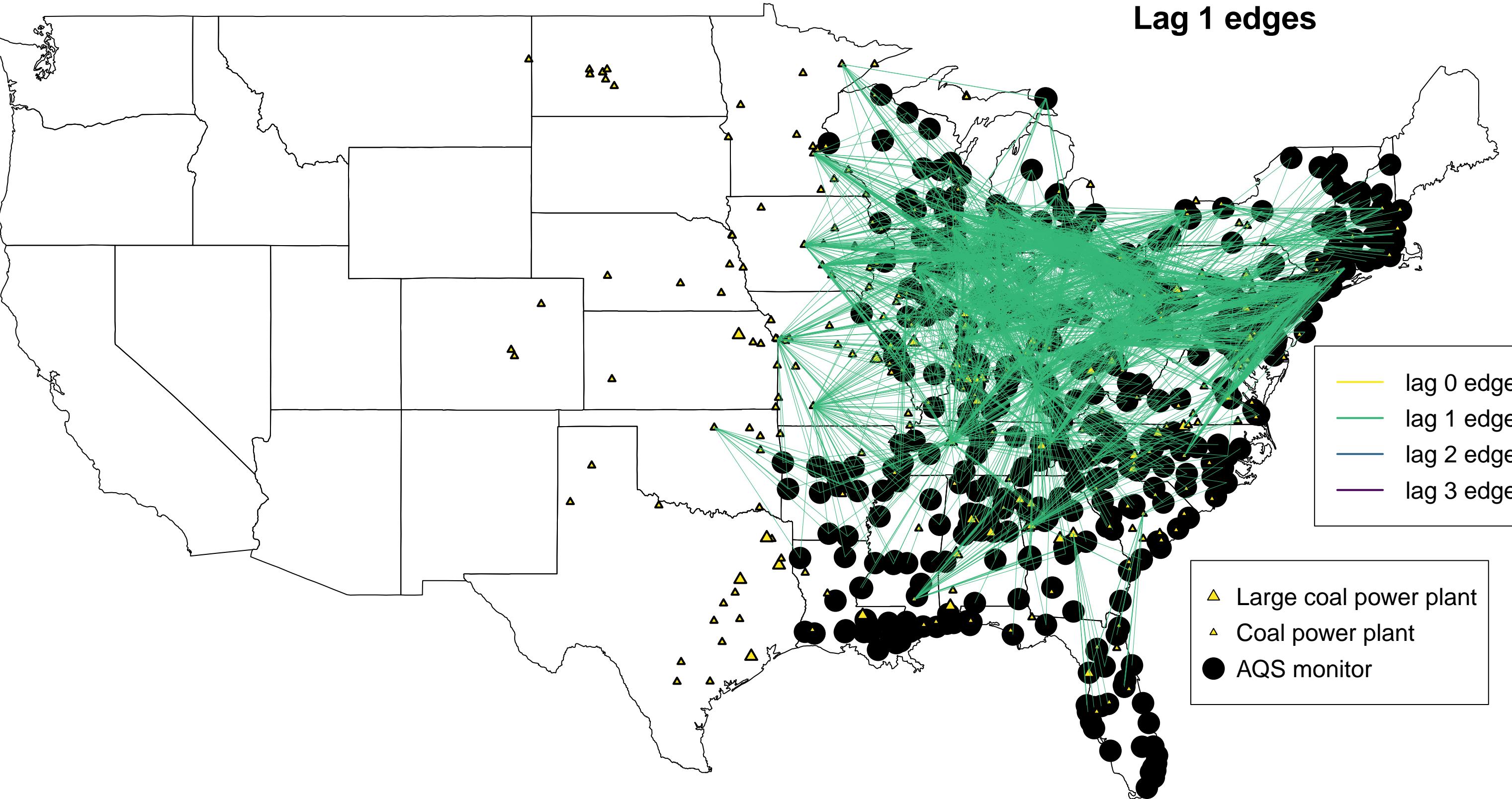
## Southeast – summer 2005



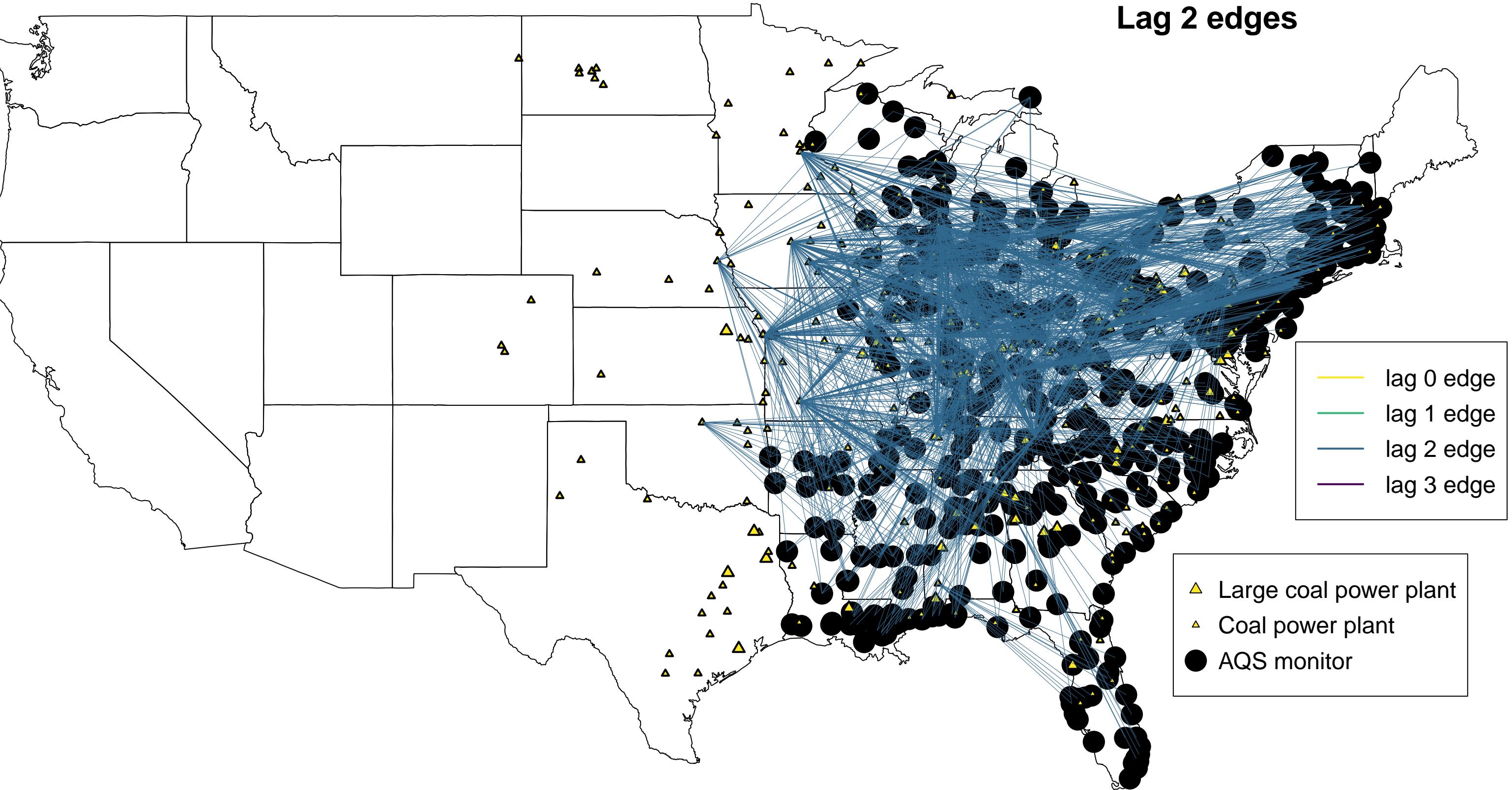
## Lag 0 edges



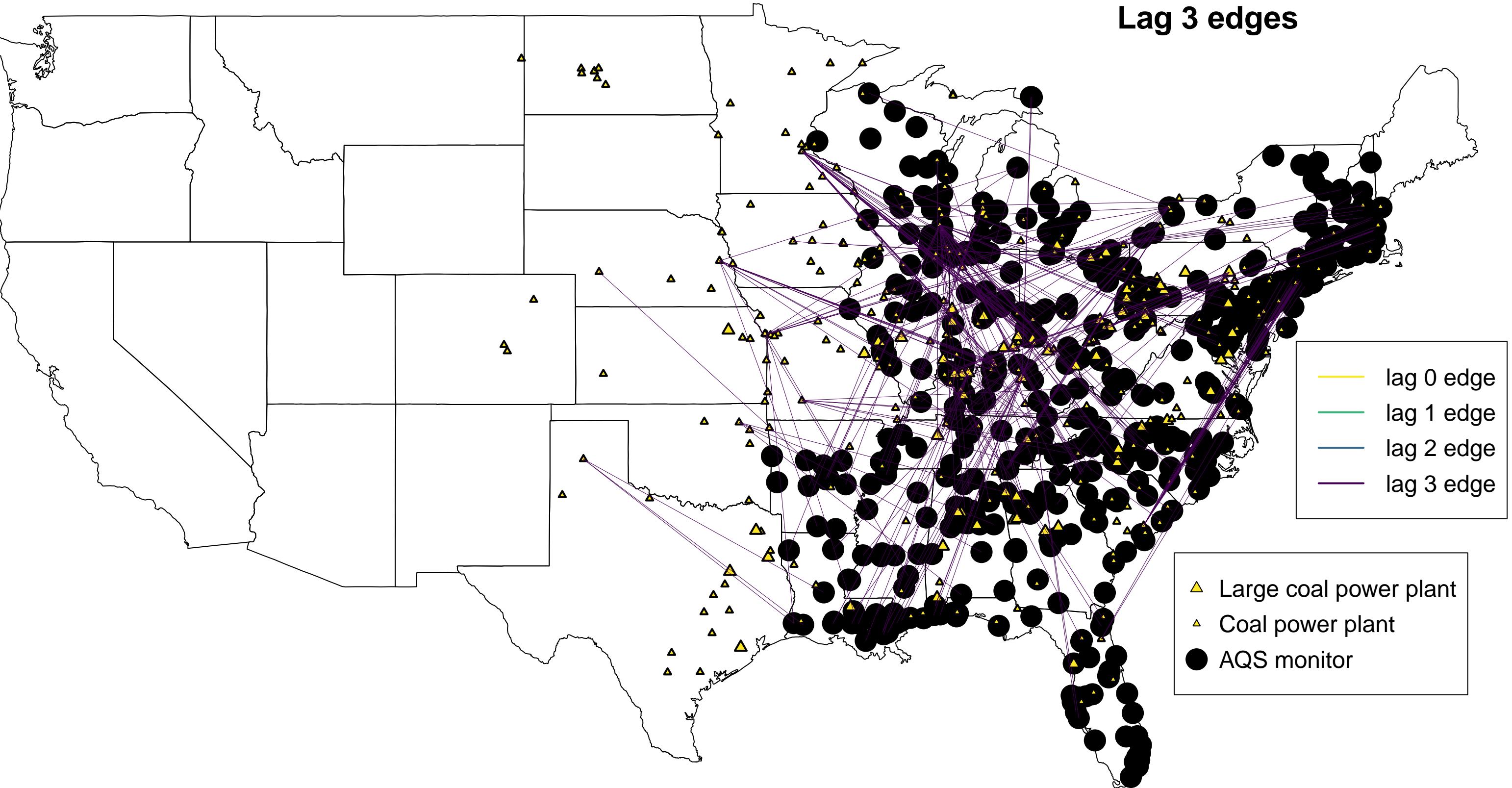
## Lag 1 edges

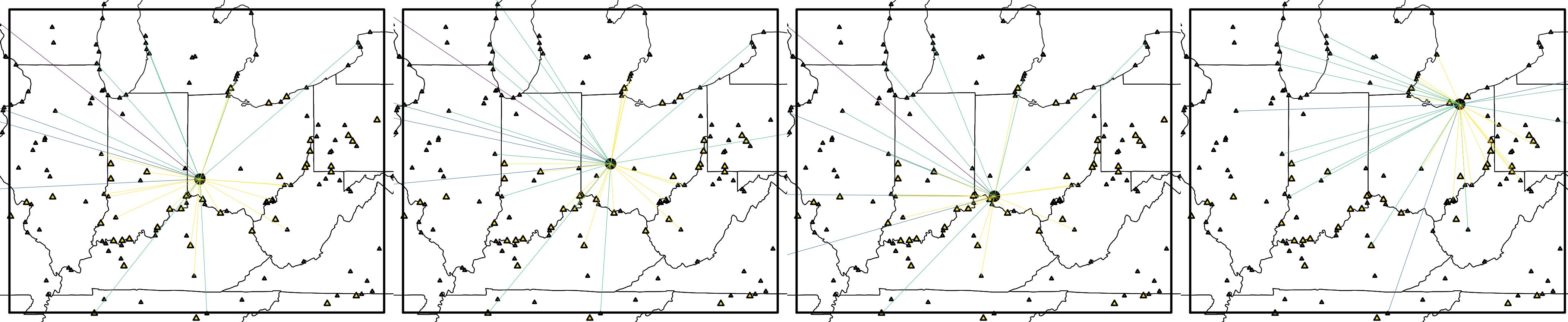


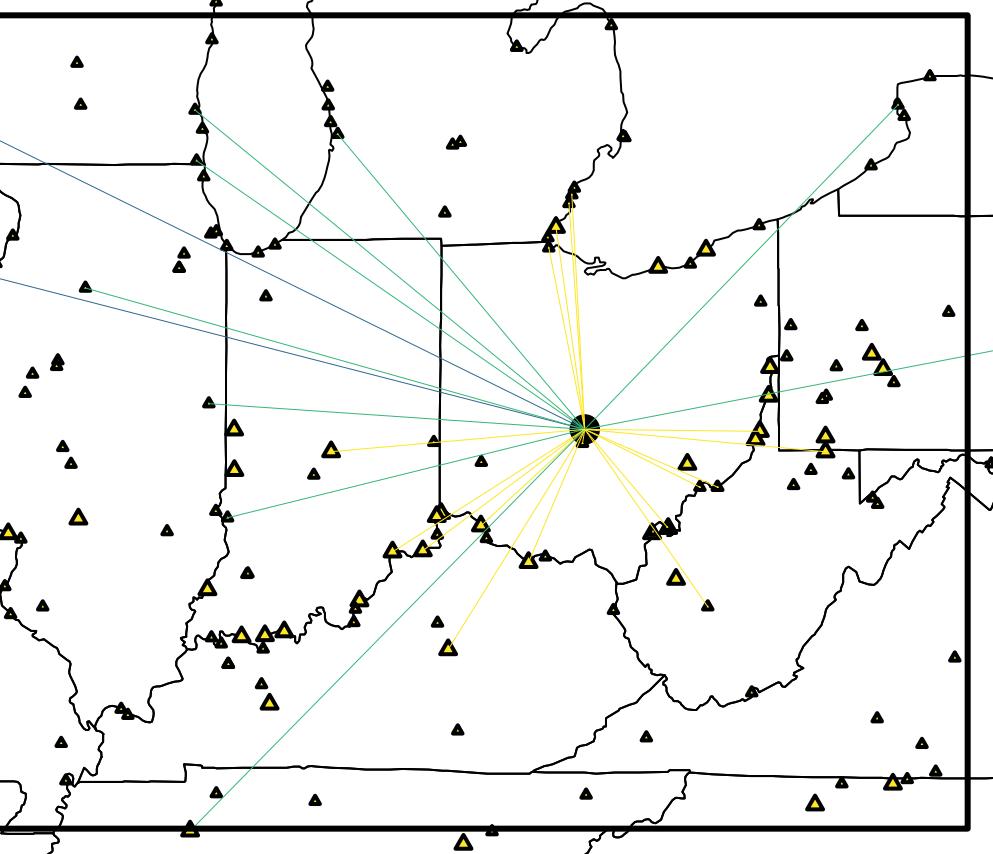
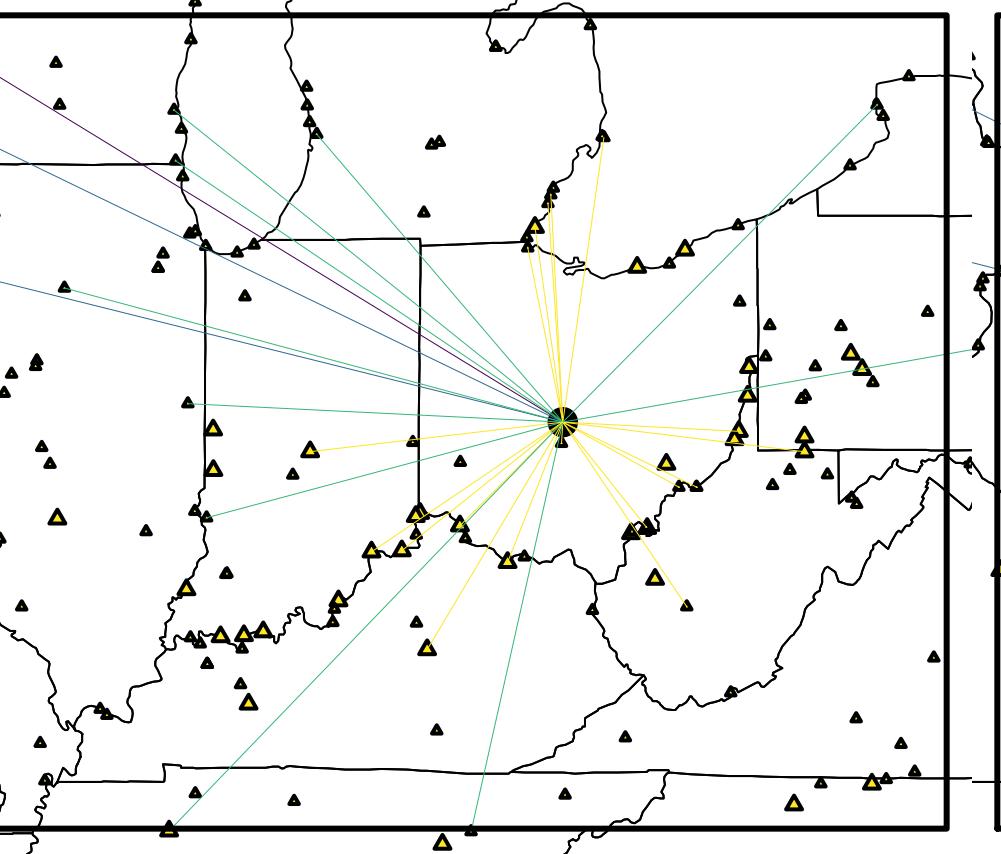
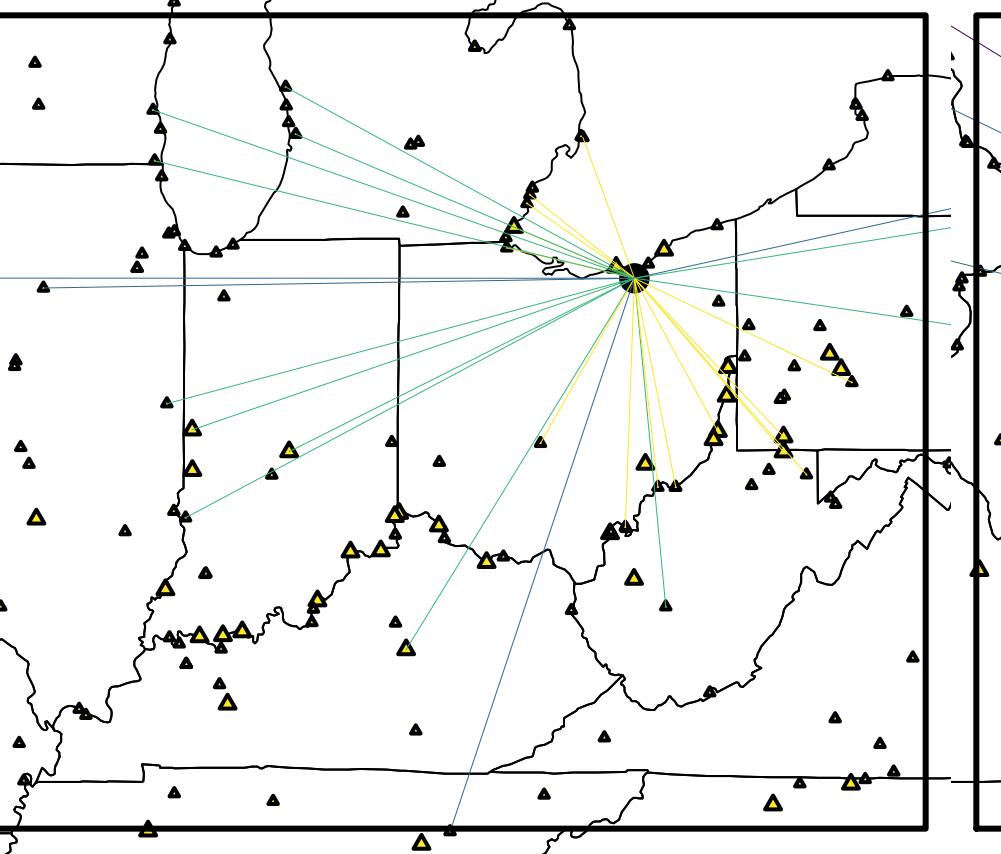
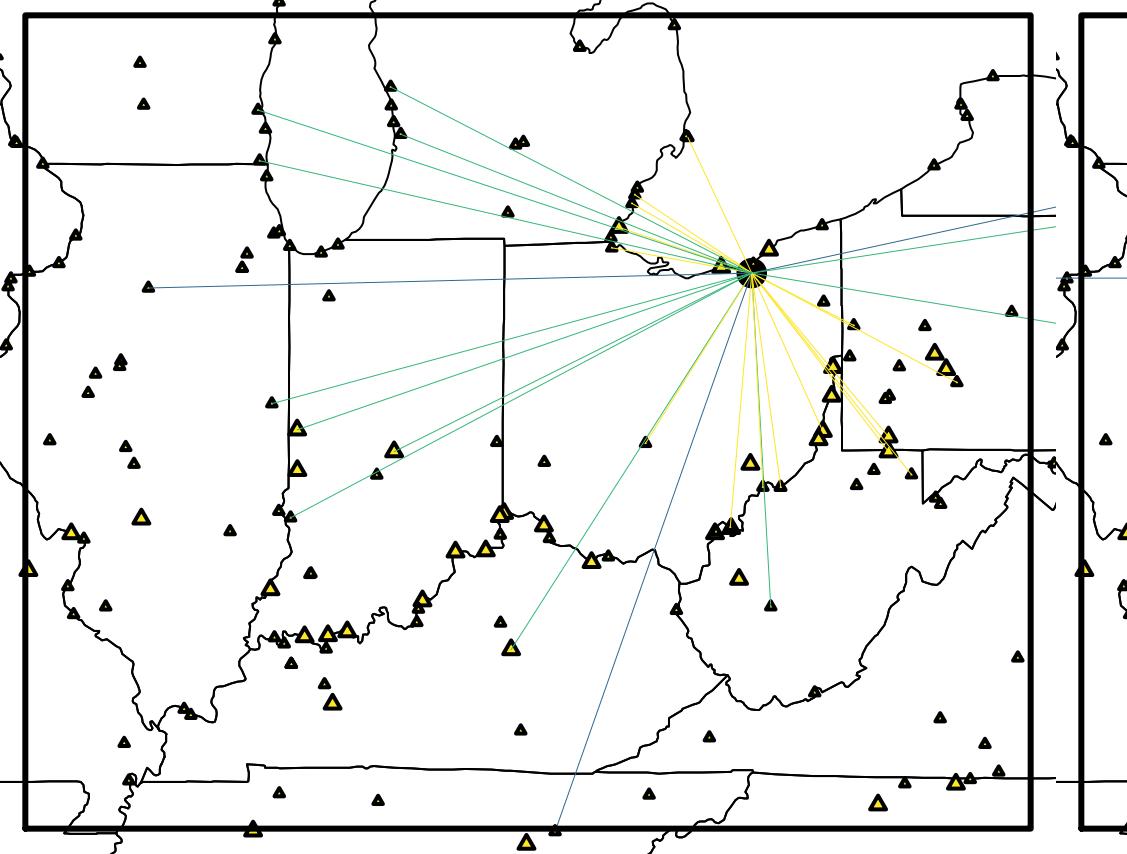
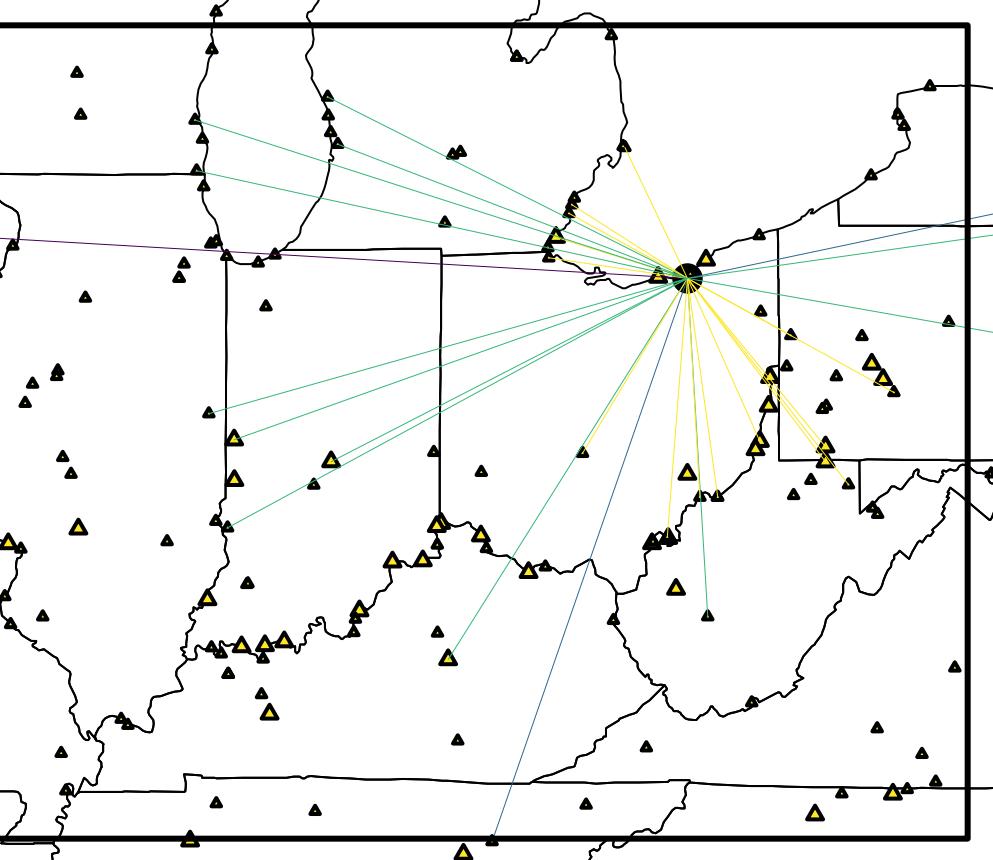
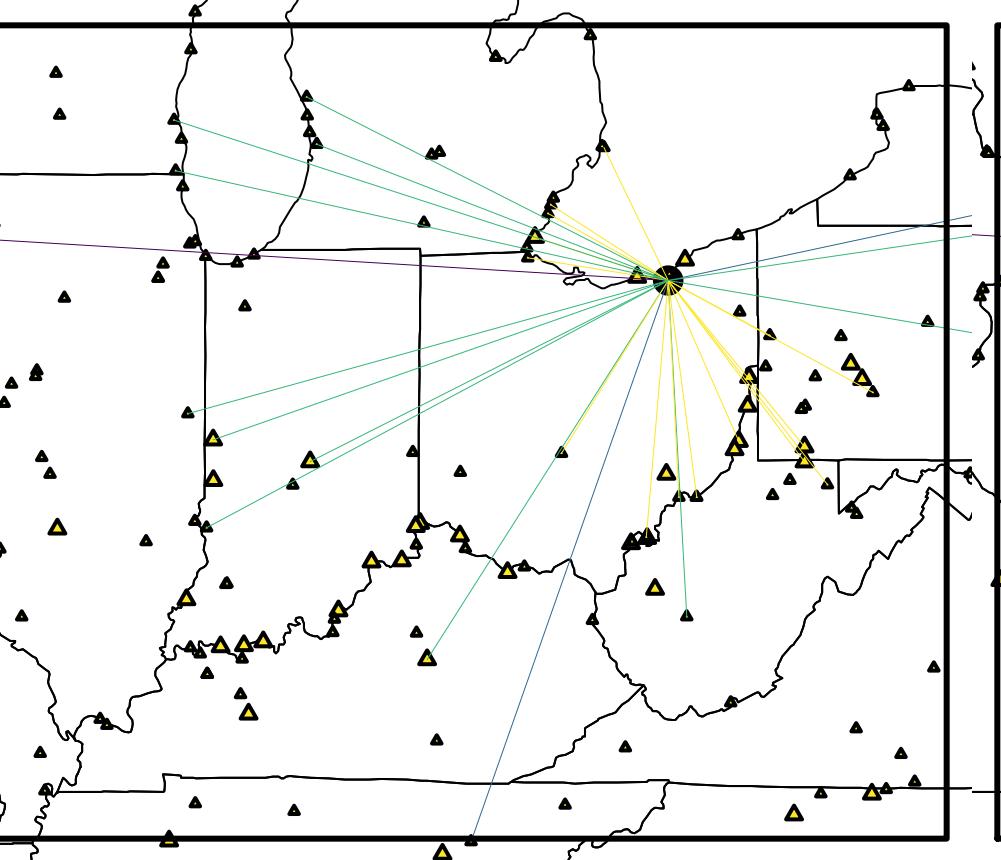
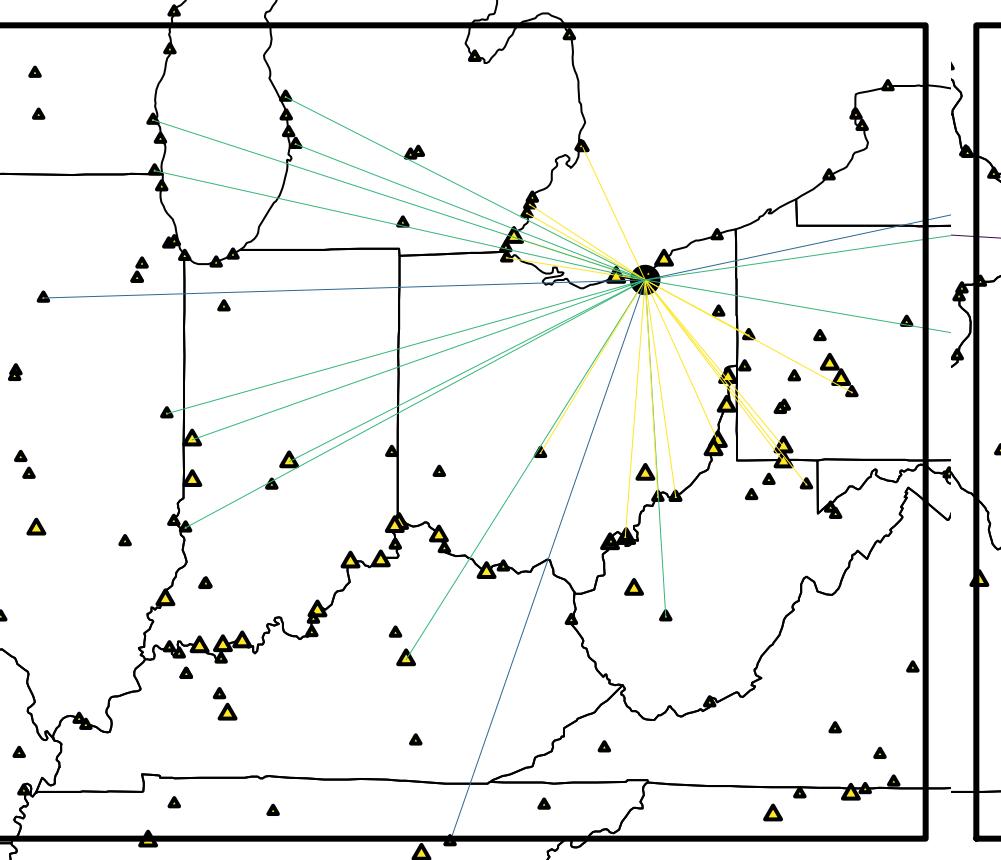
## Lag 2 edges

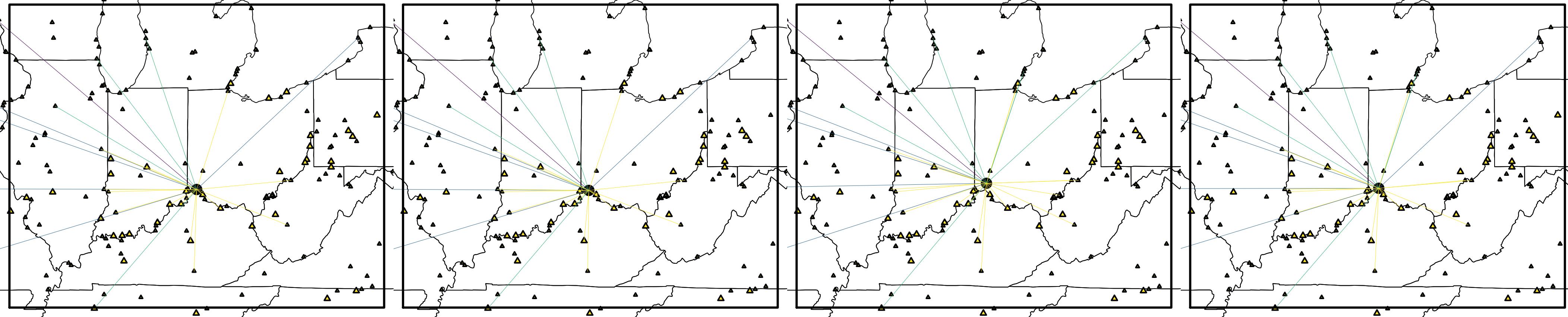
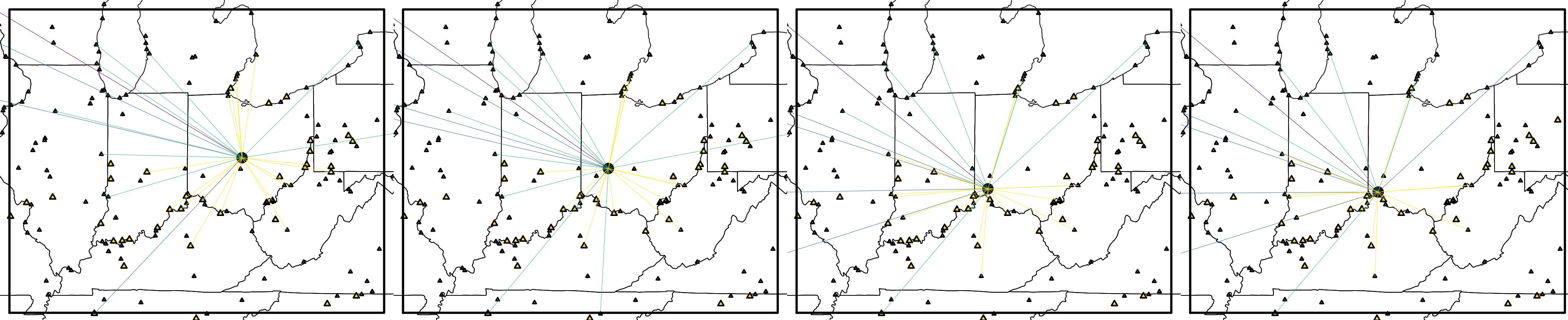


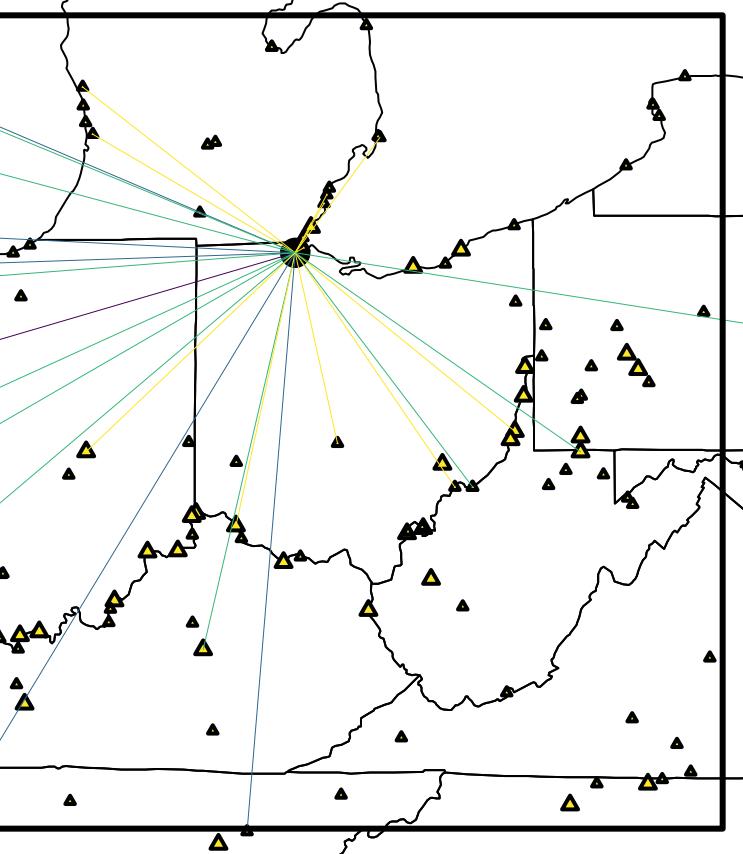
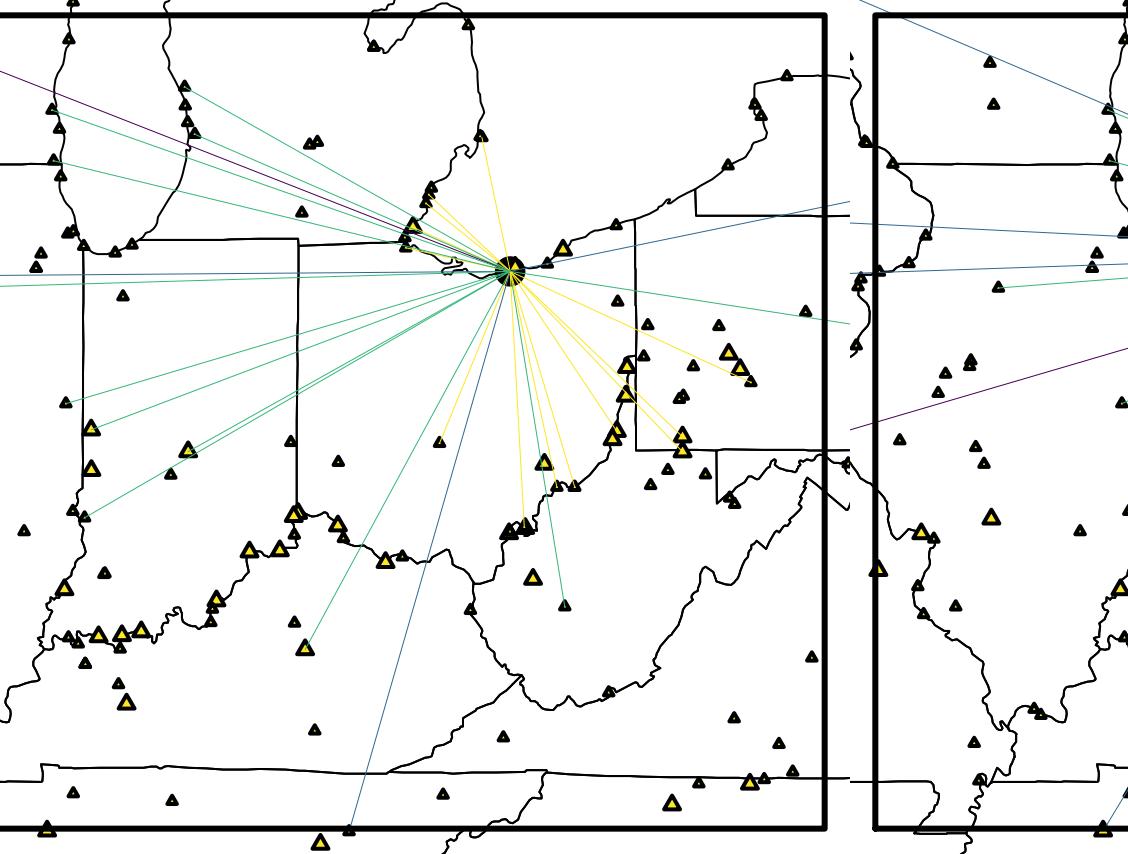
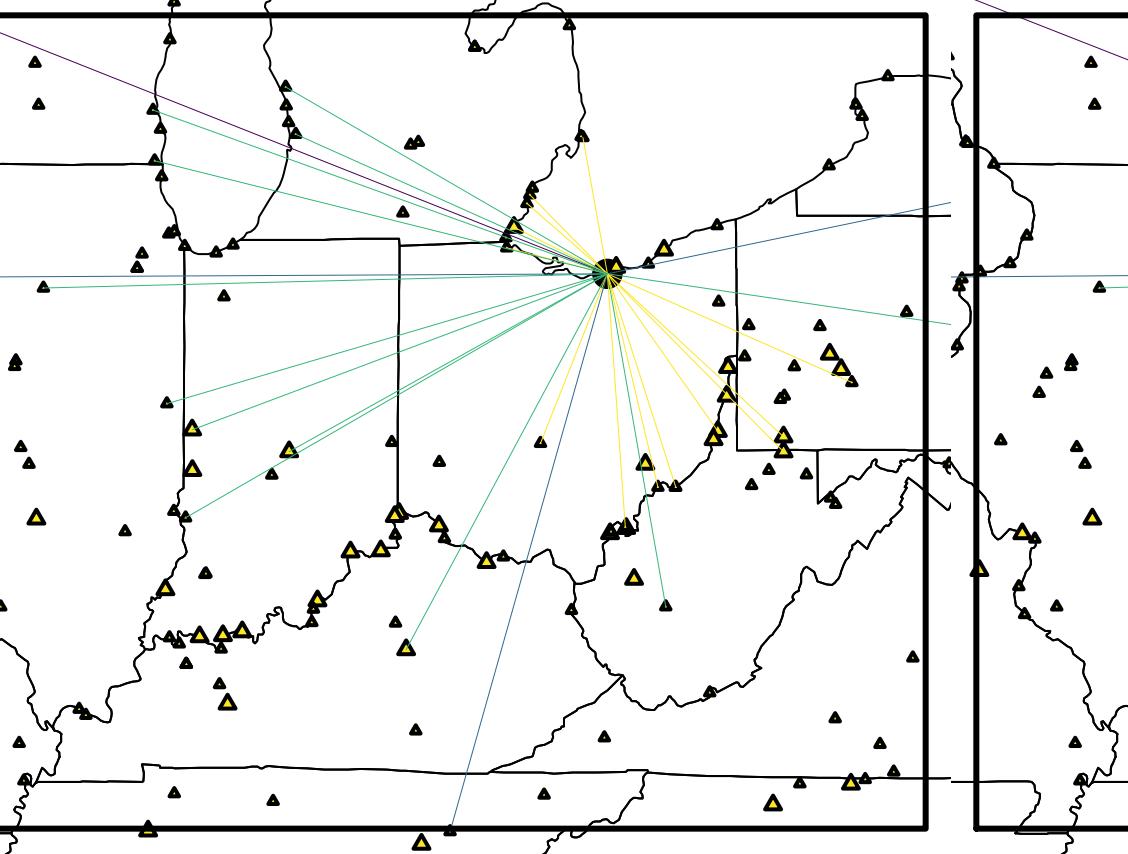
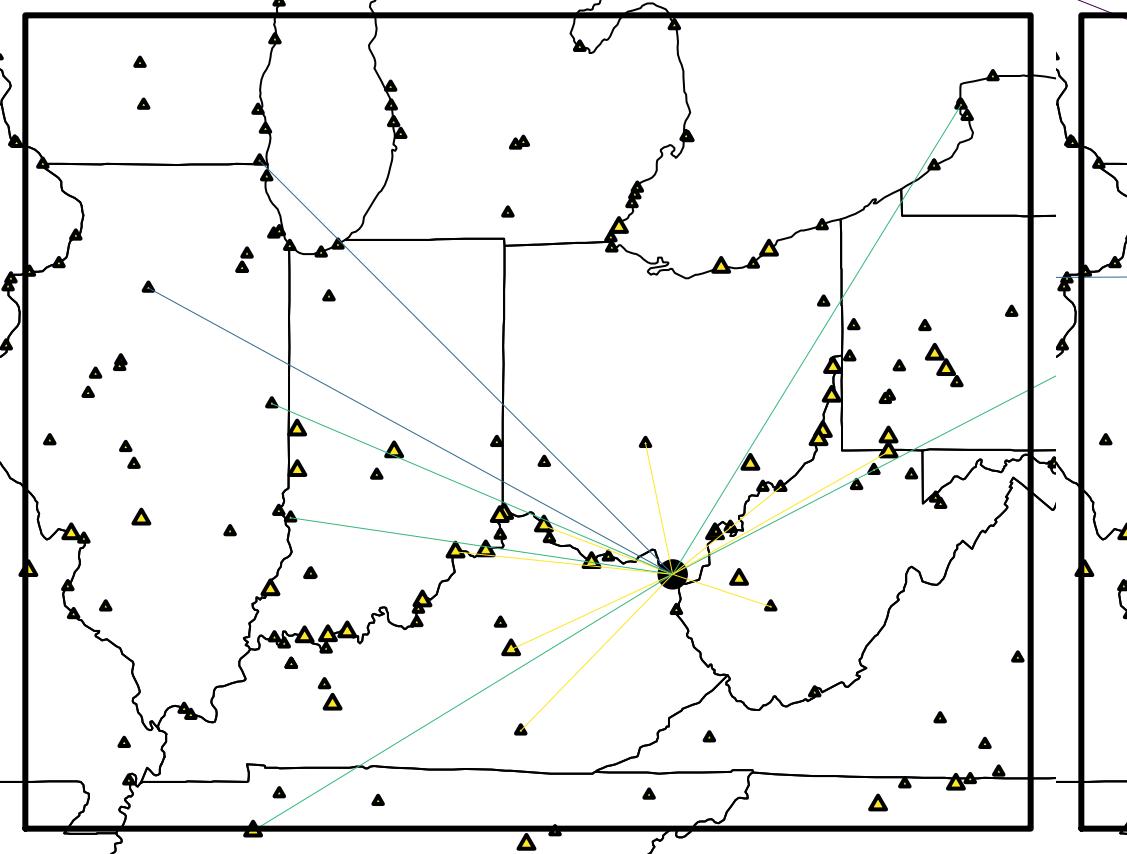
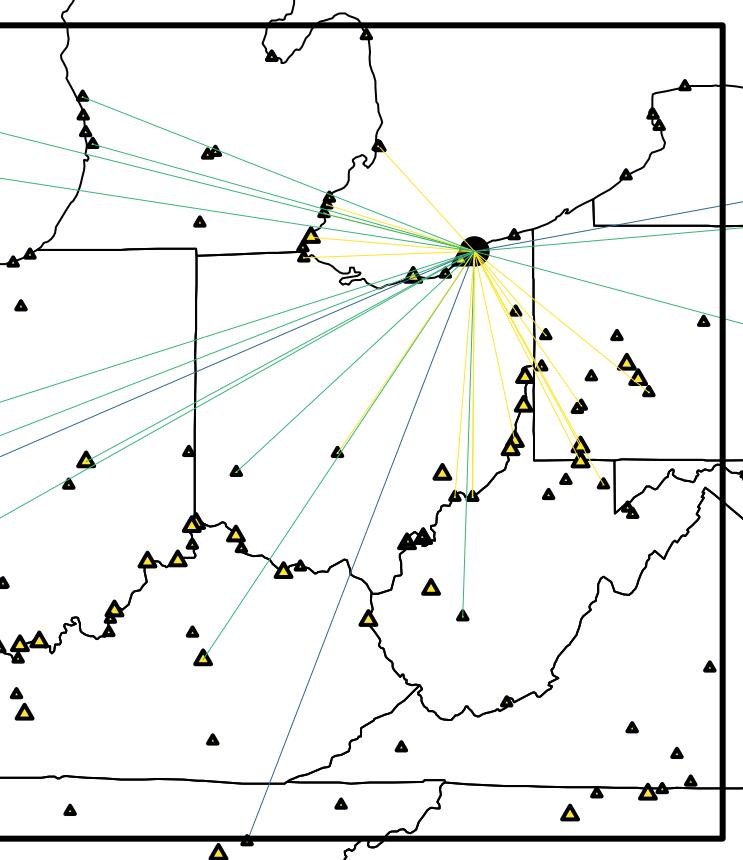
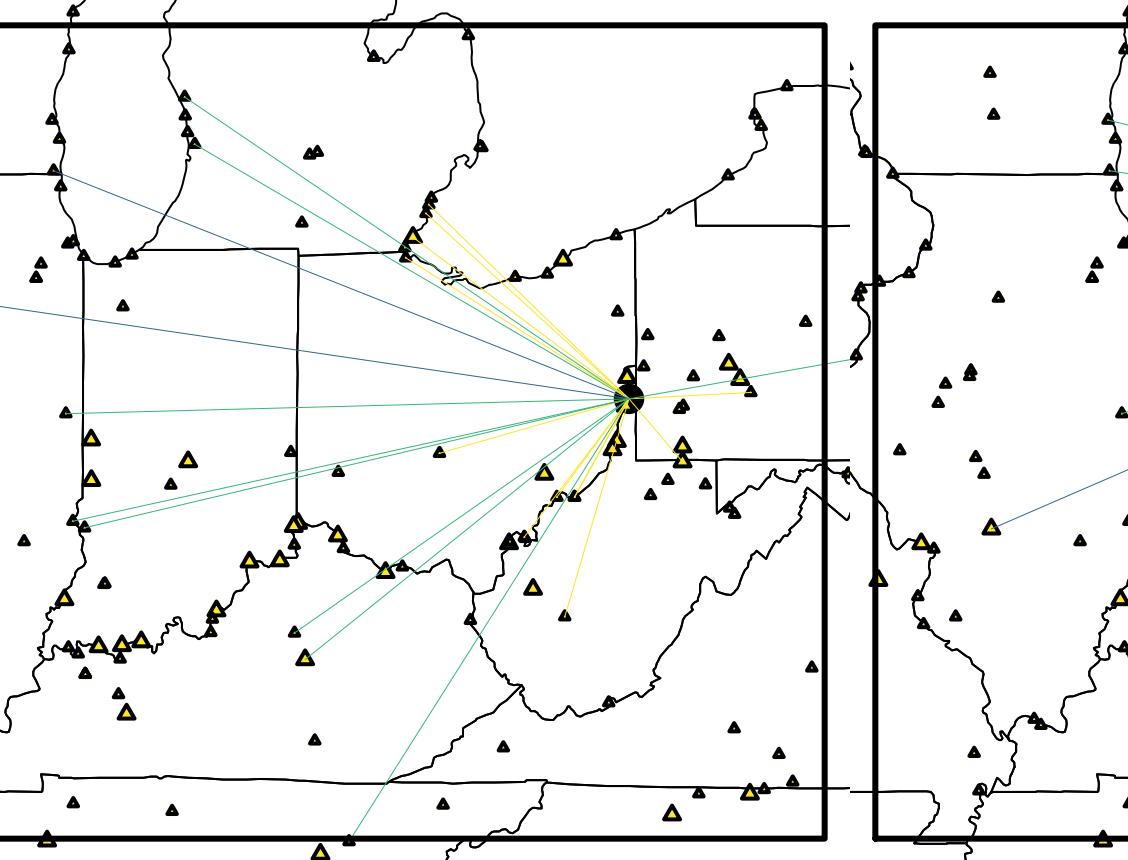
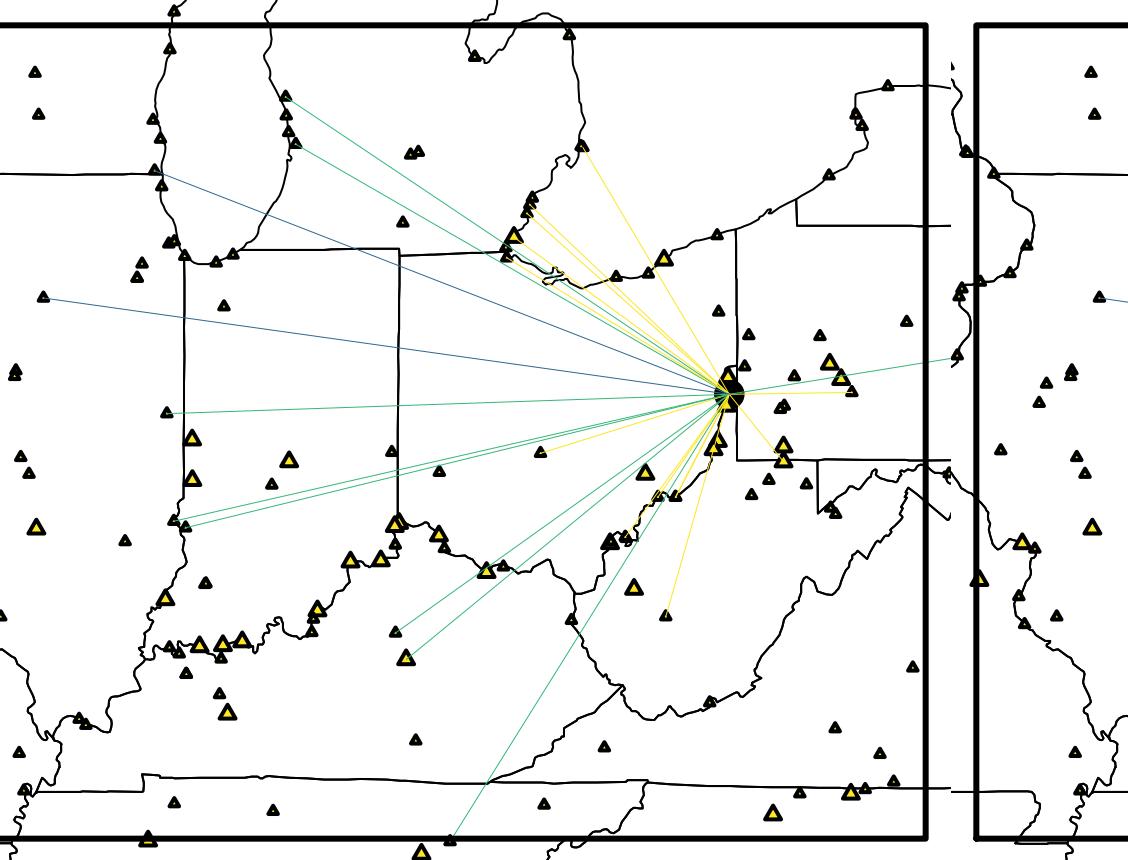
## Lag 3 edges

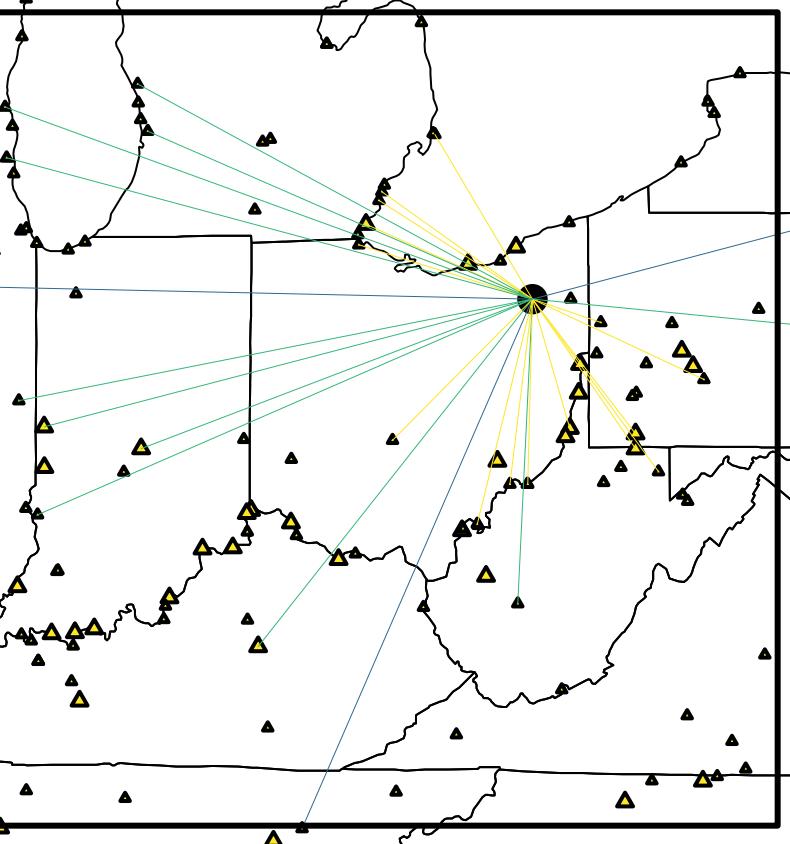
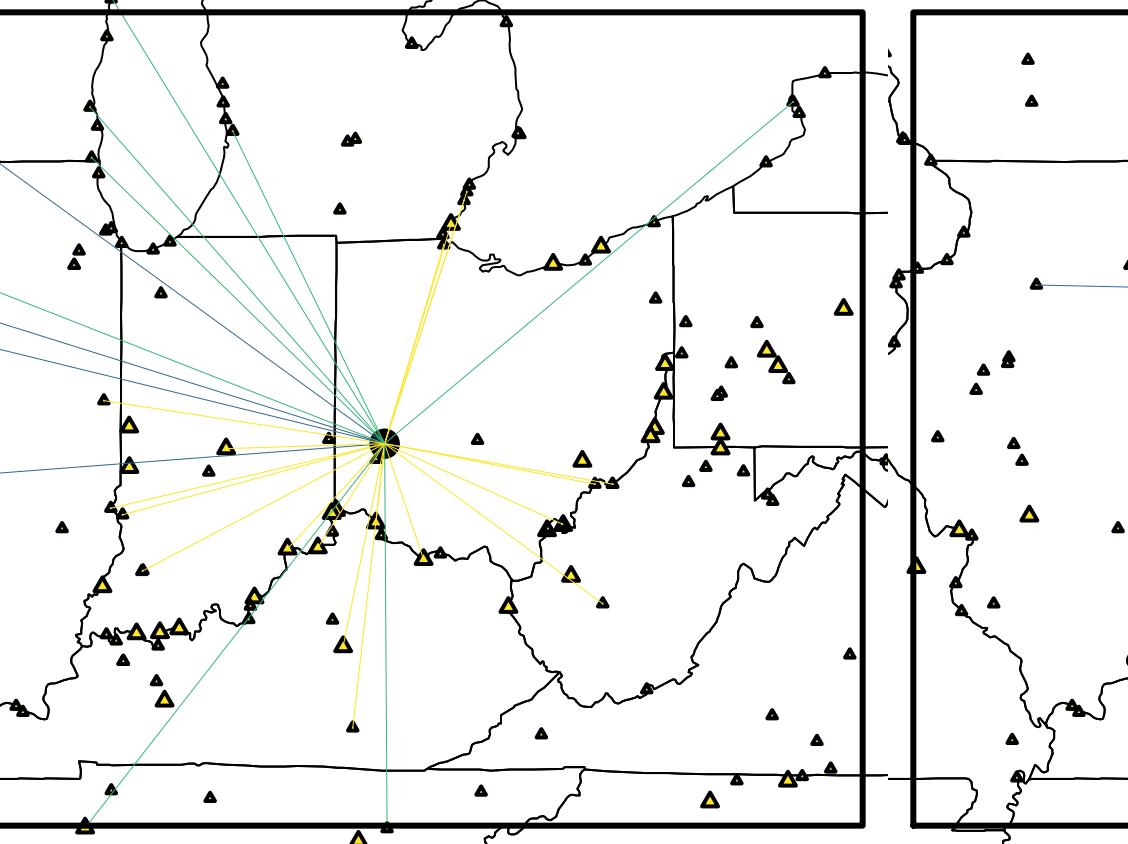
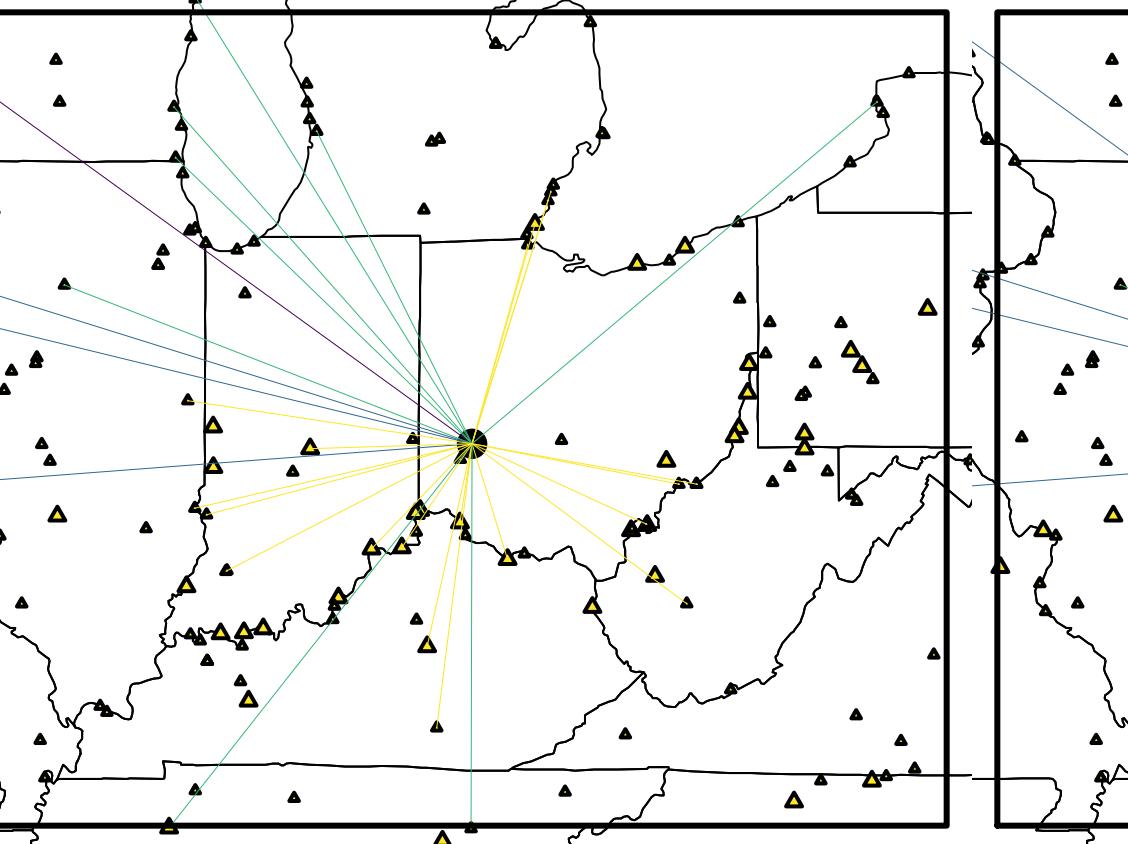
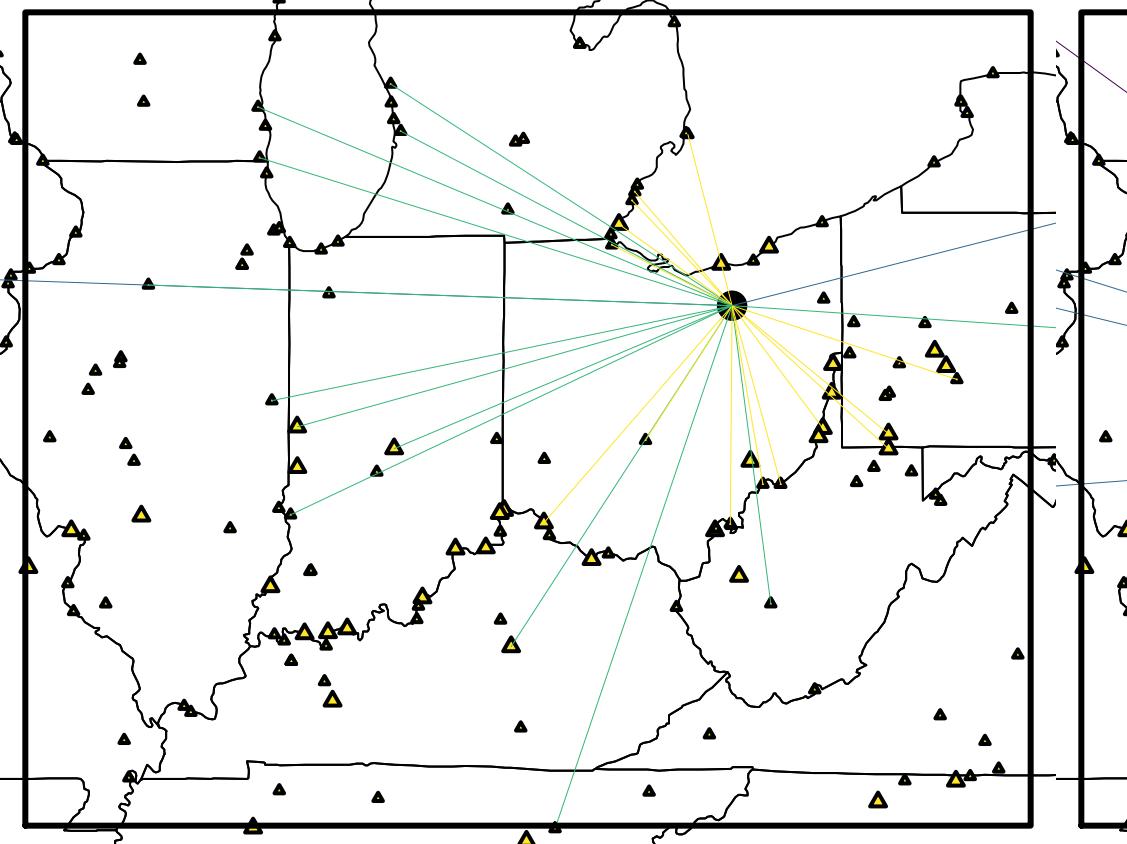
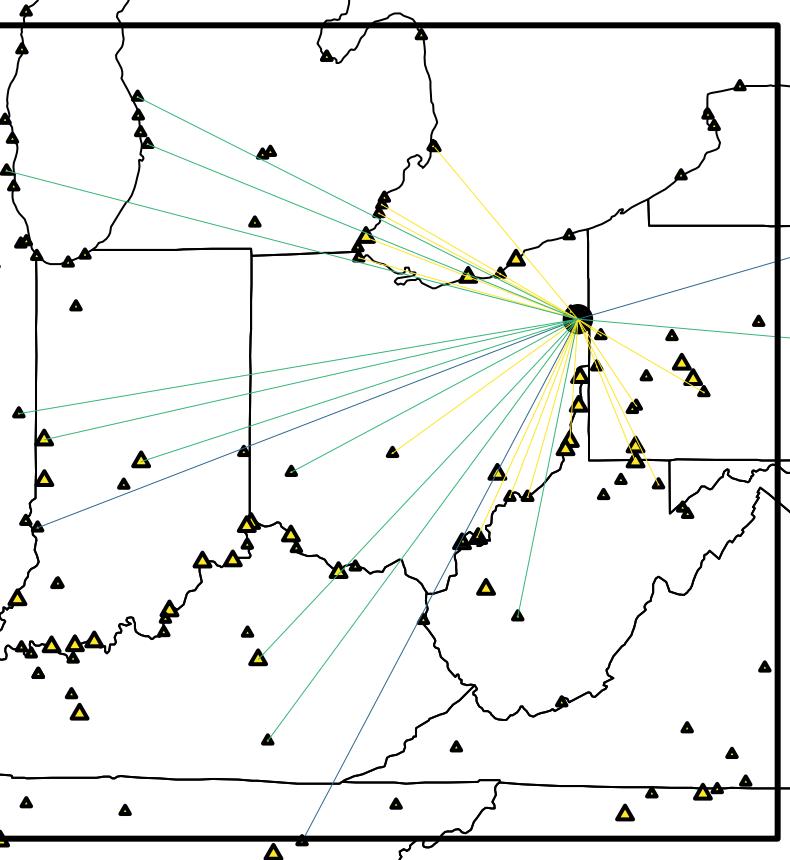
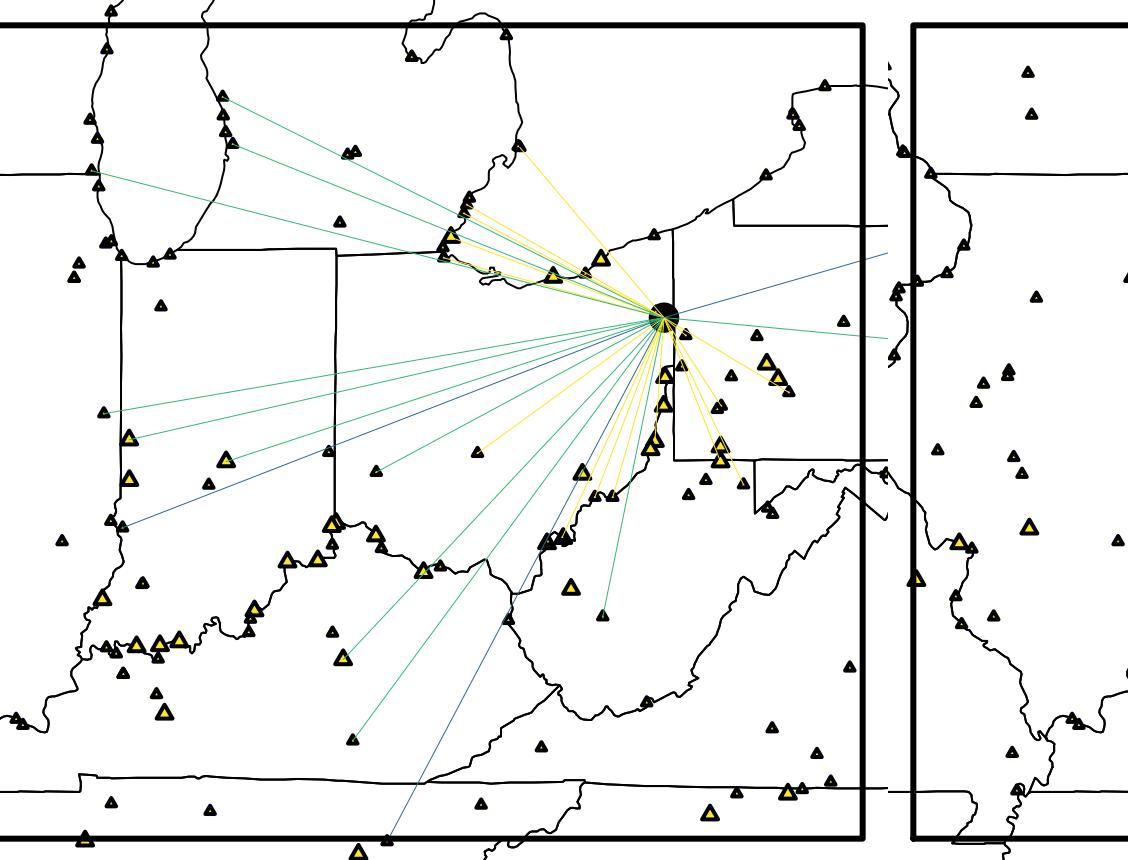
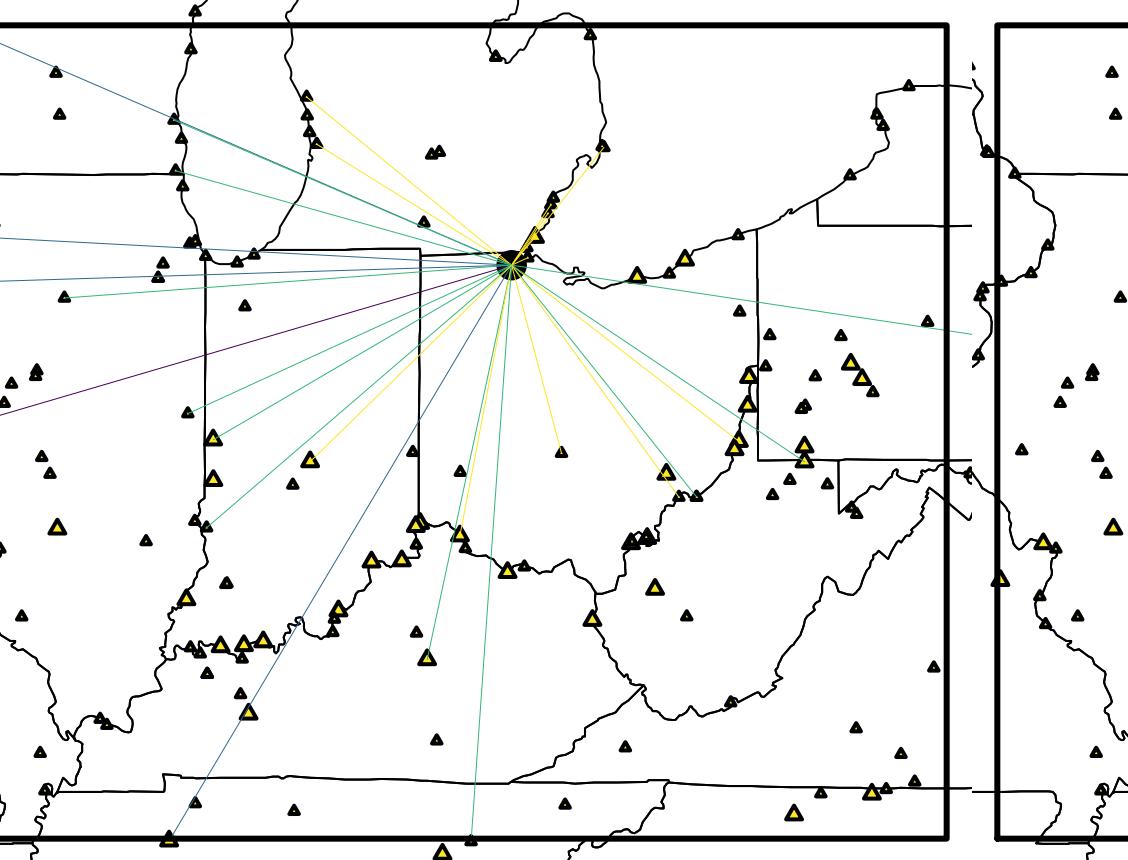


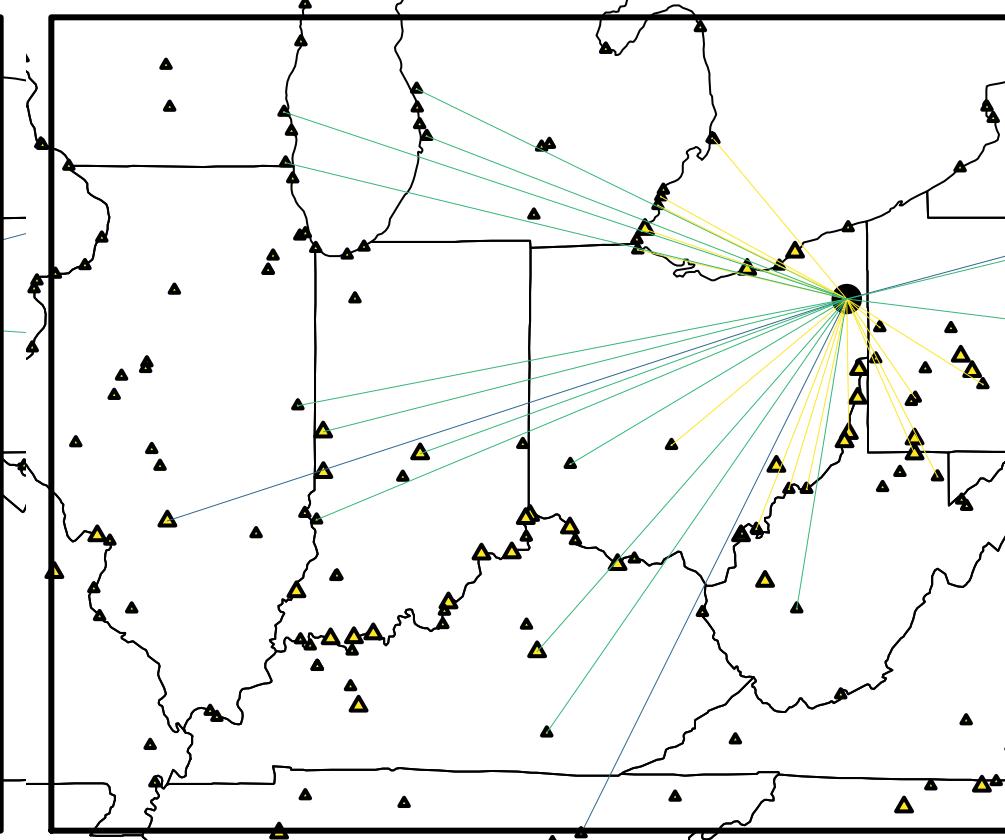
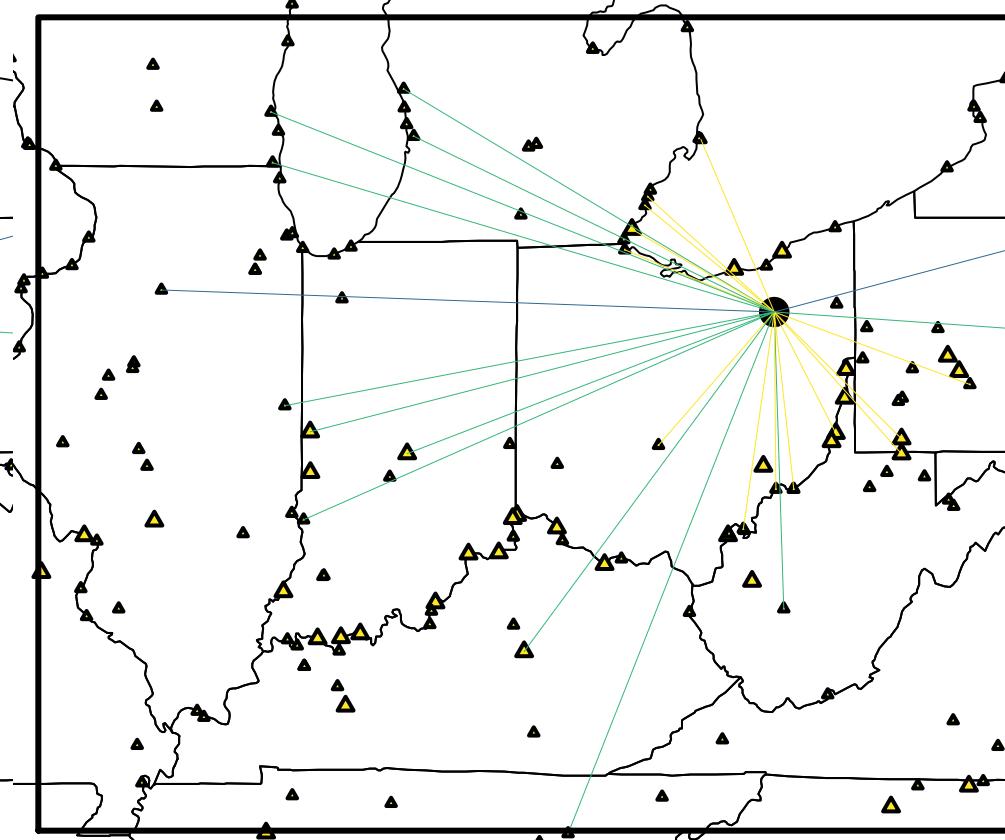
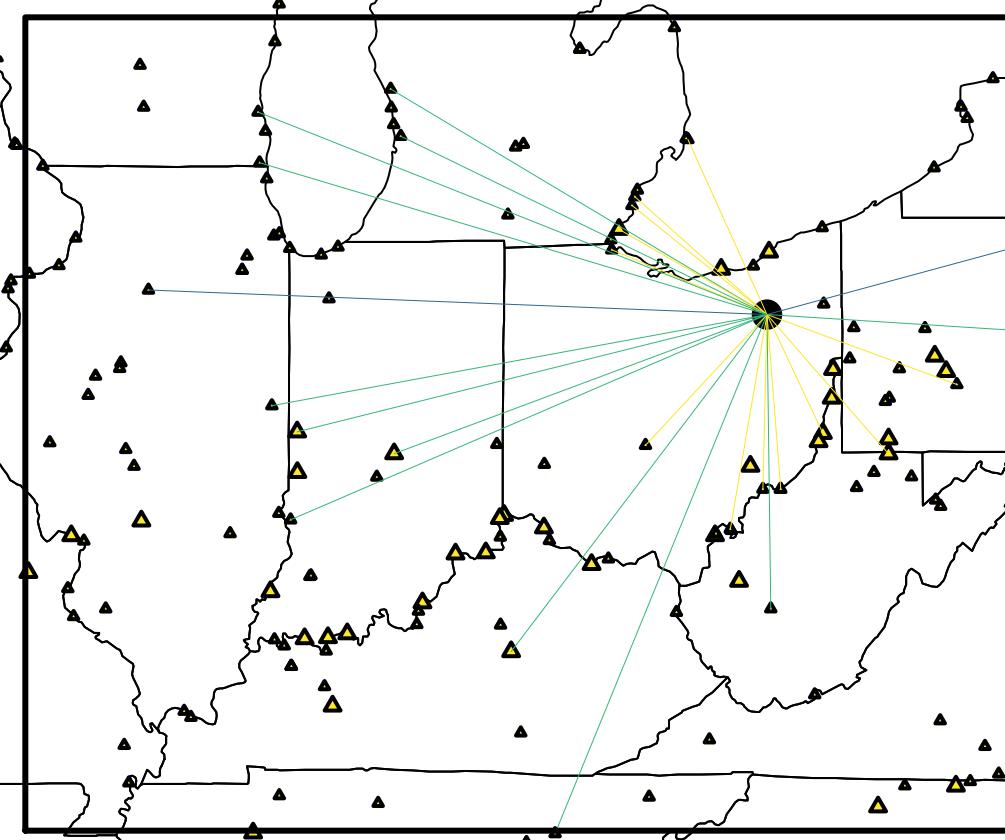
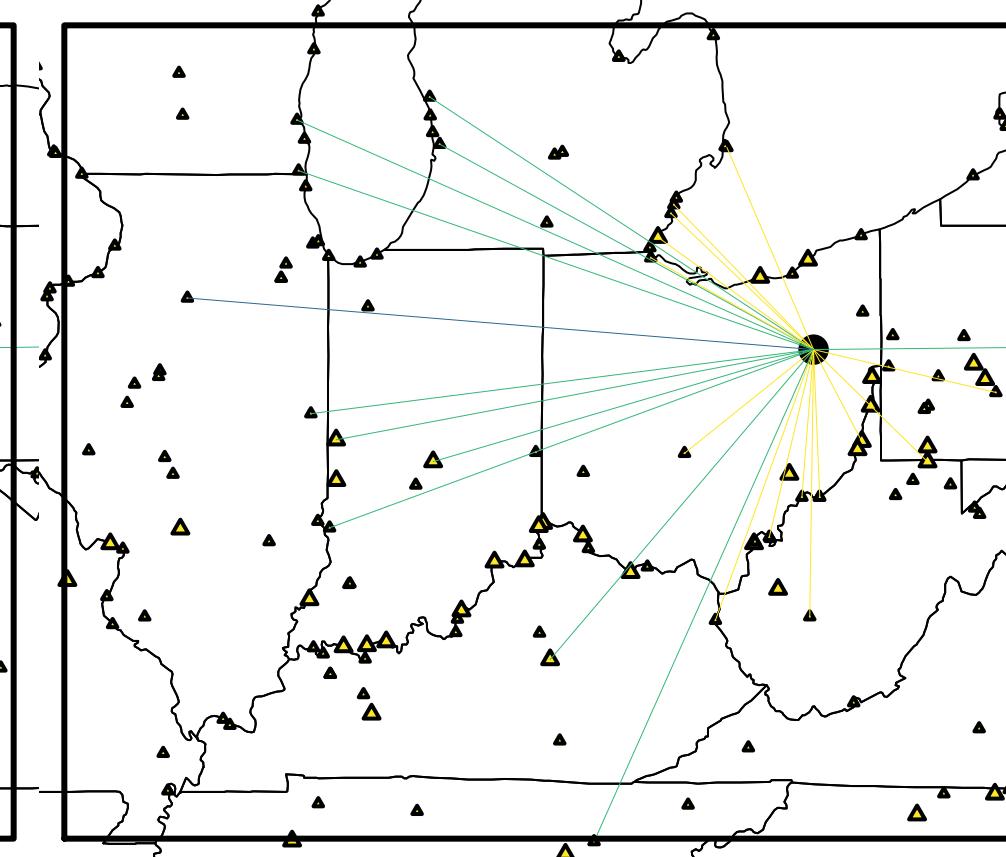
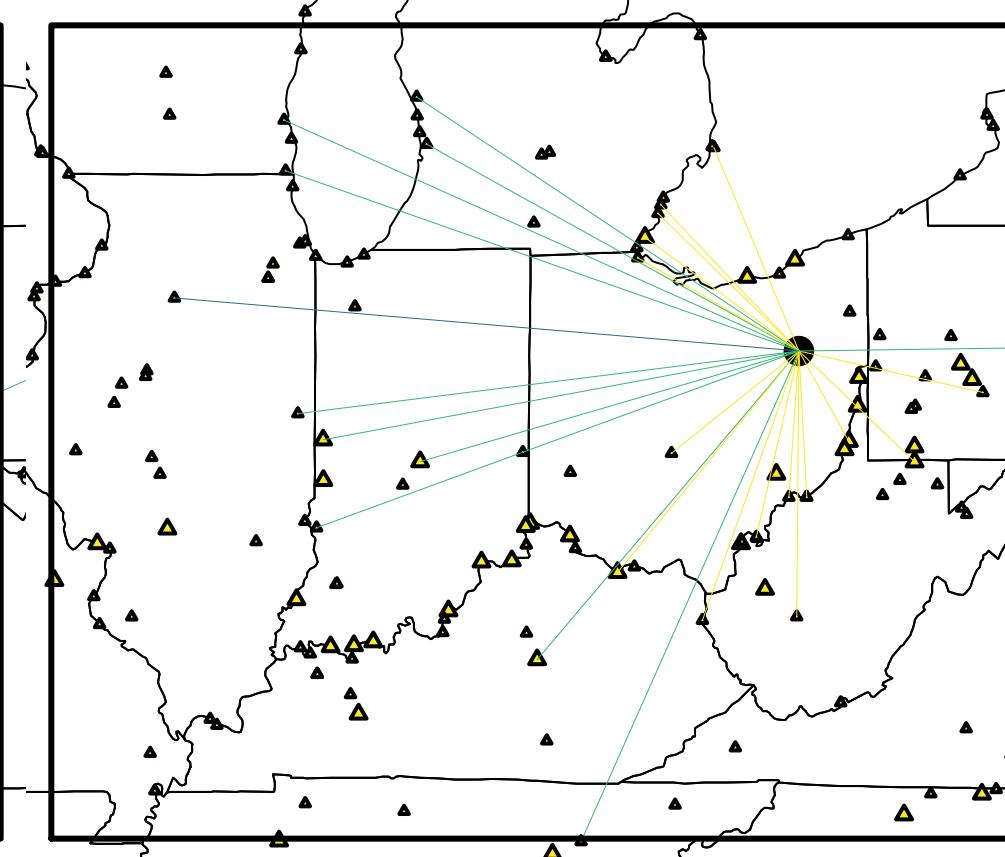
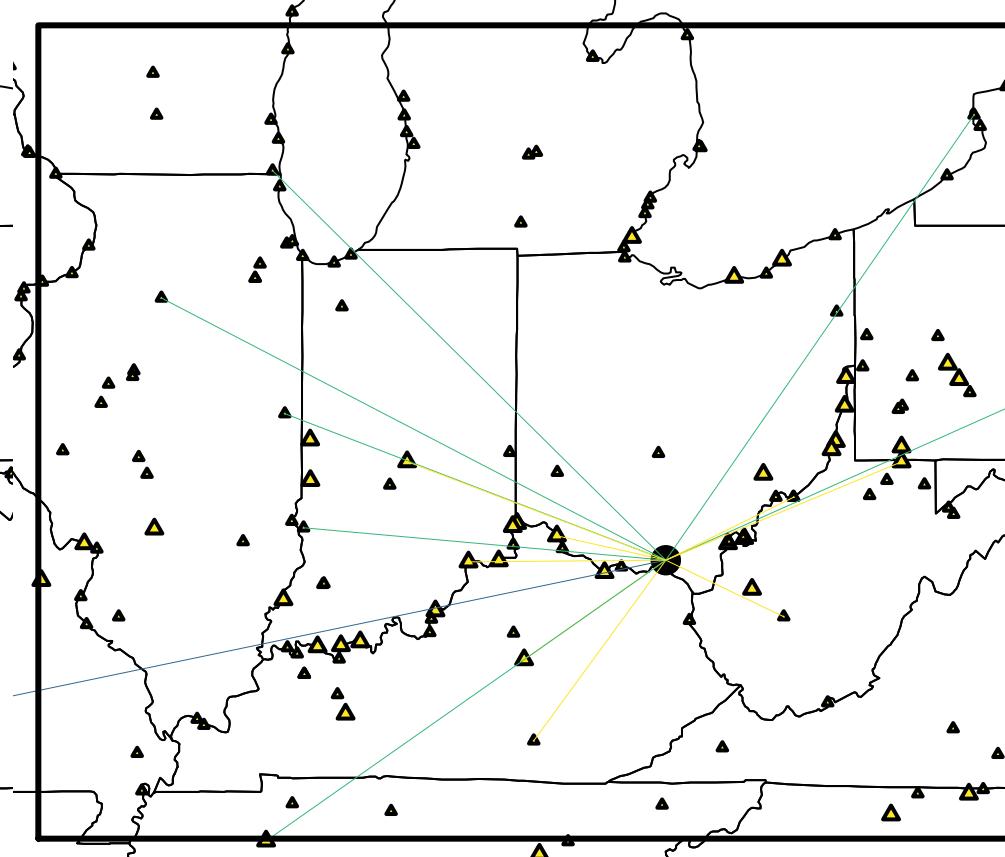
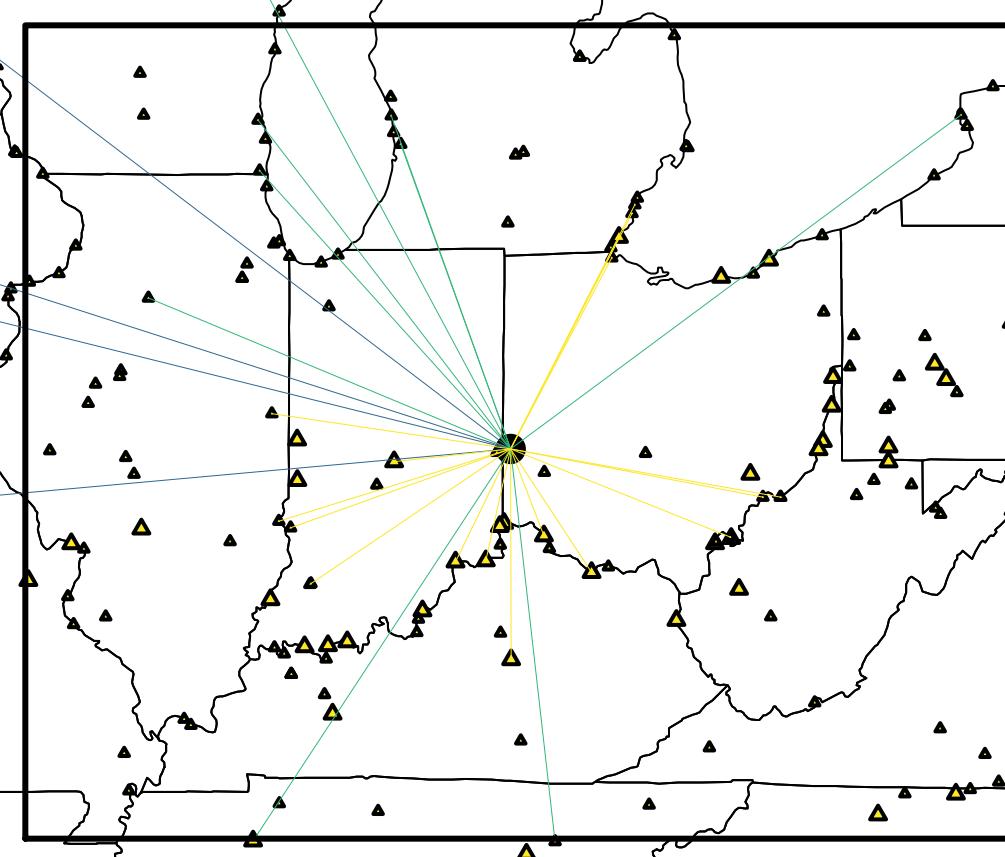


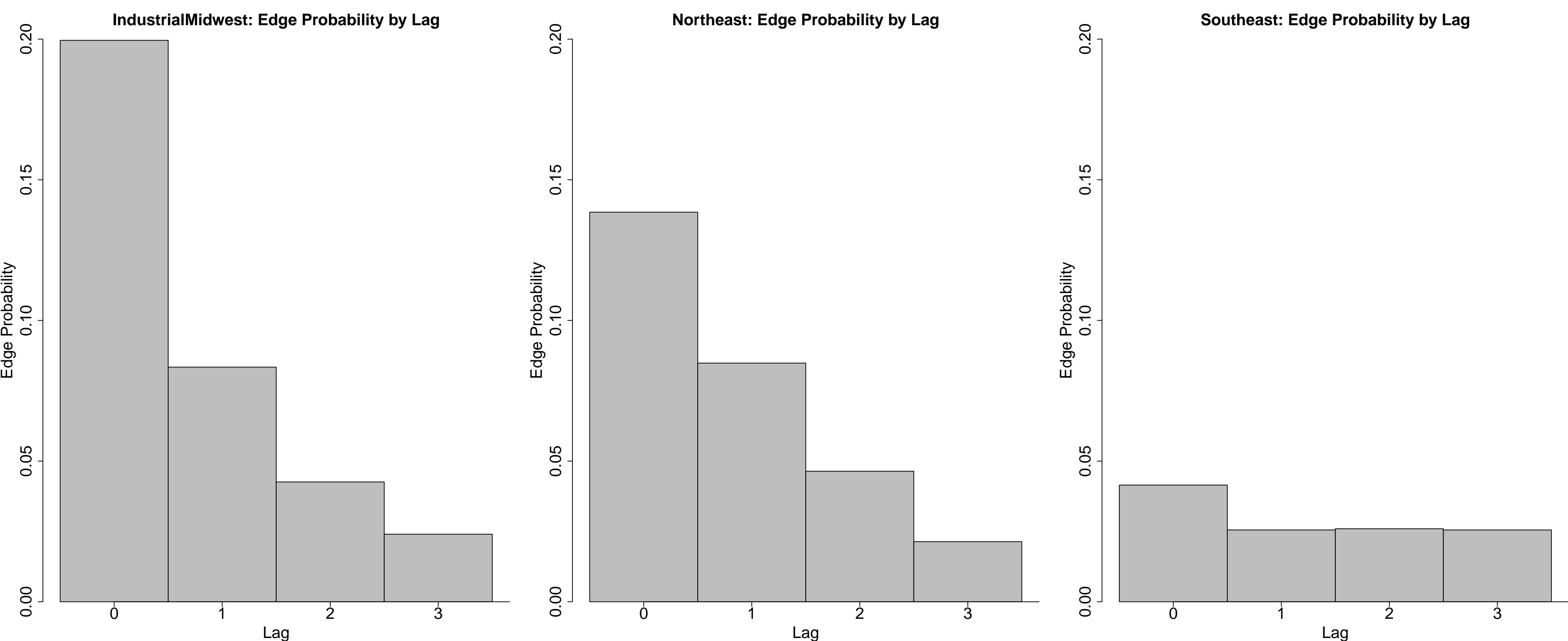




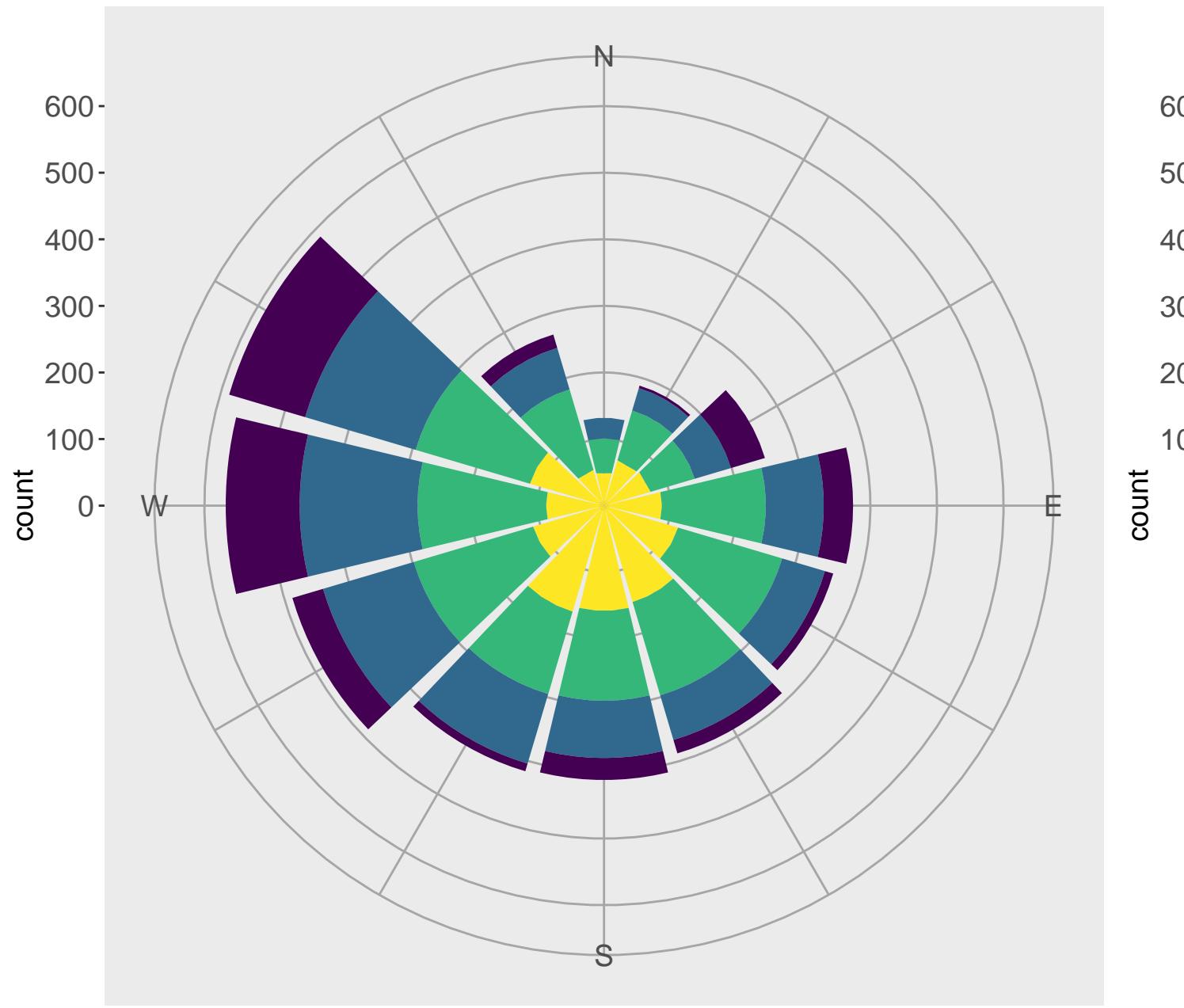




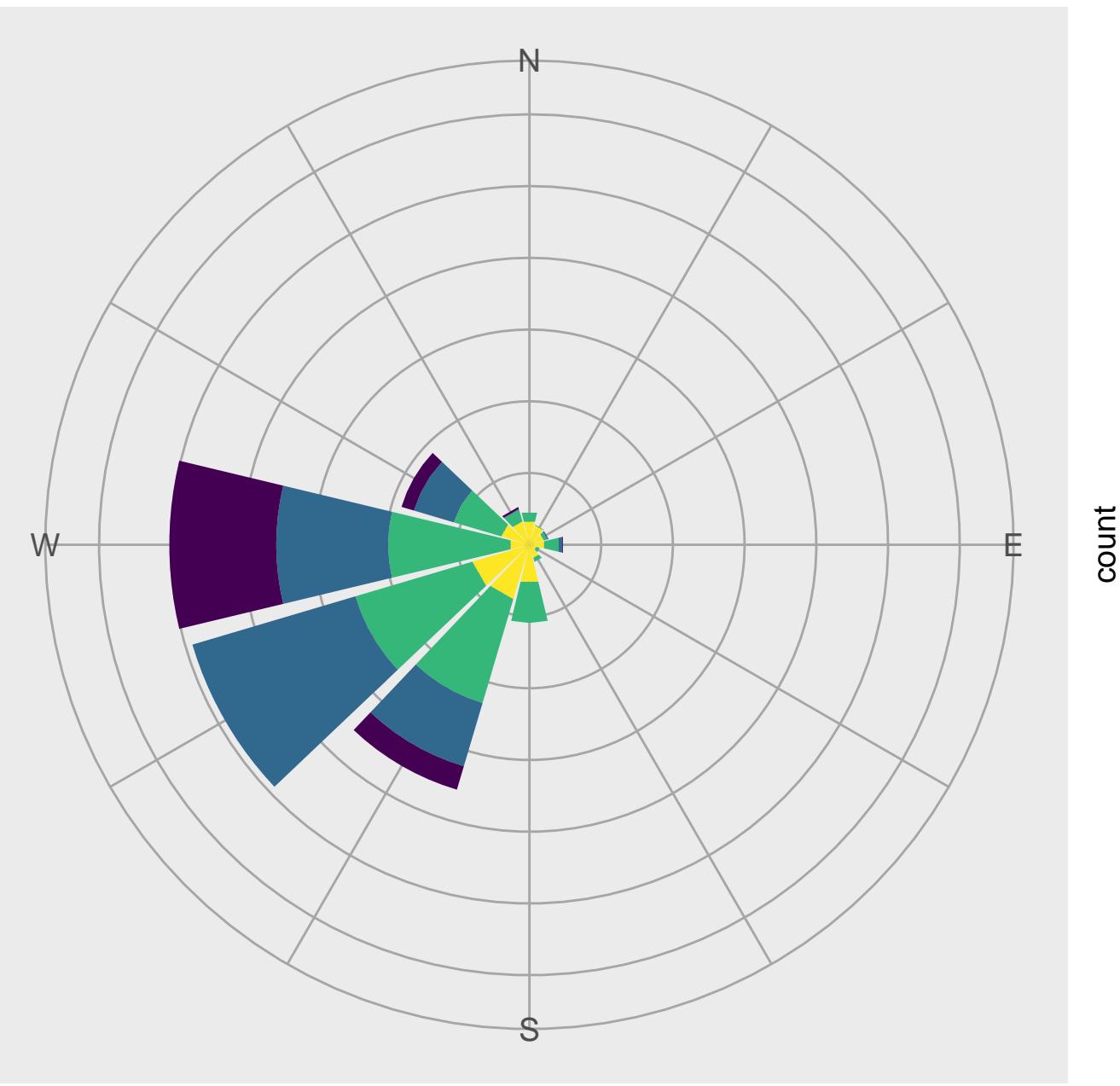




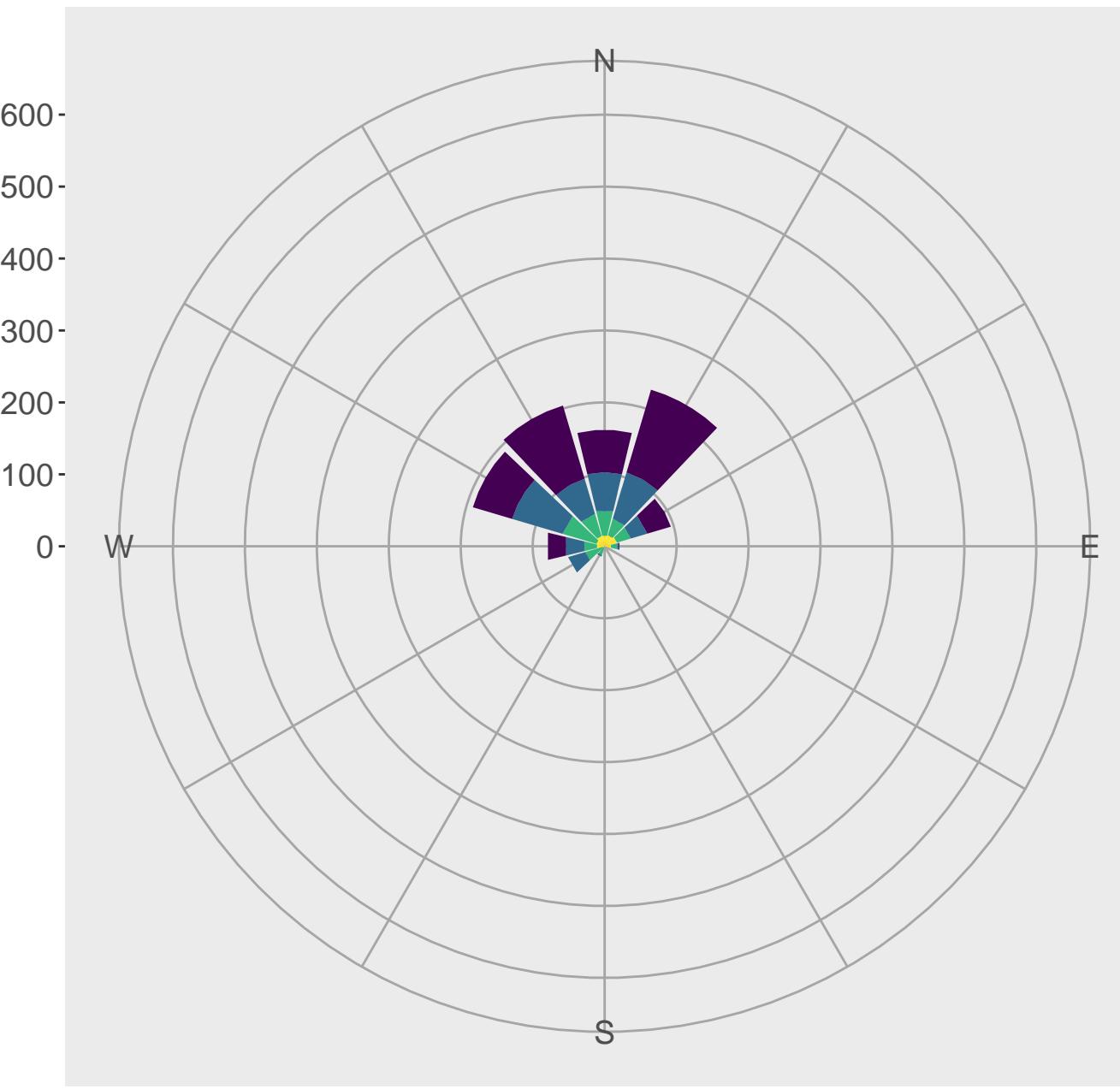
**Edge counts by distance/direction to source  
IndustrialMidwest receptors**



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



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



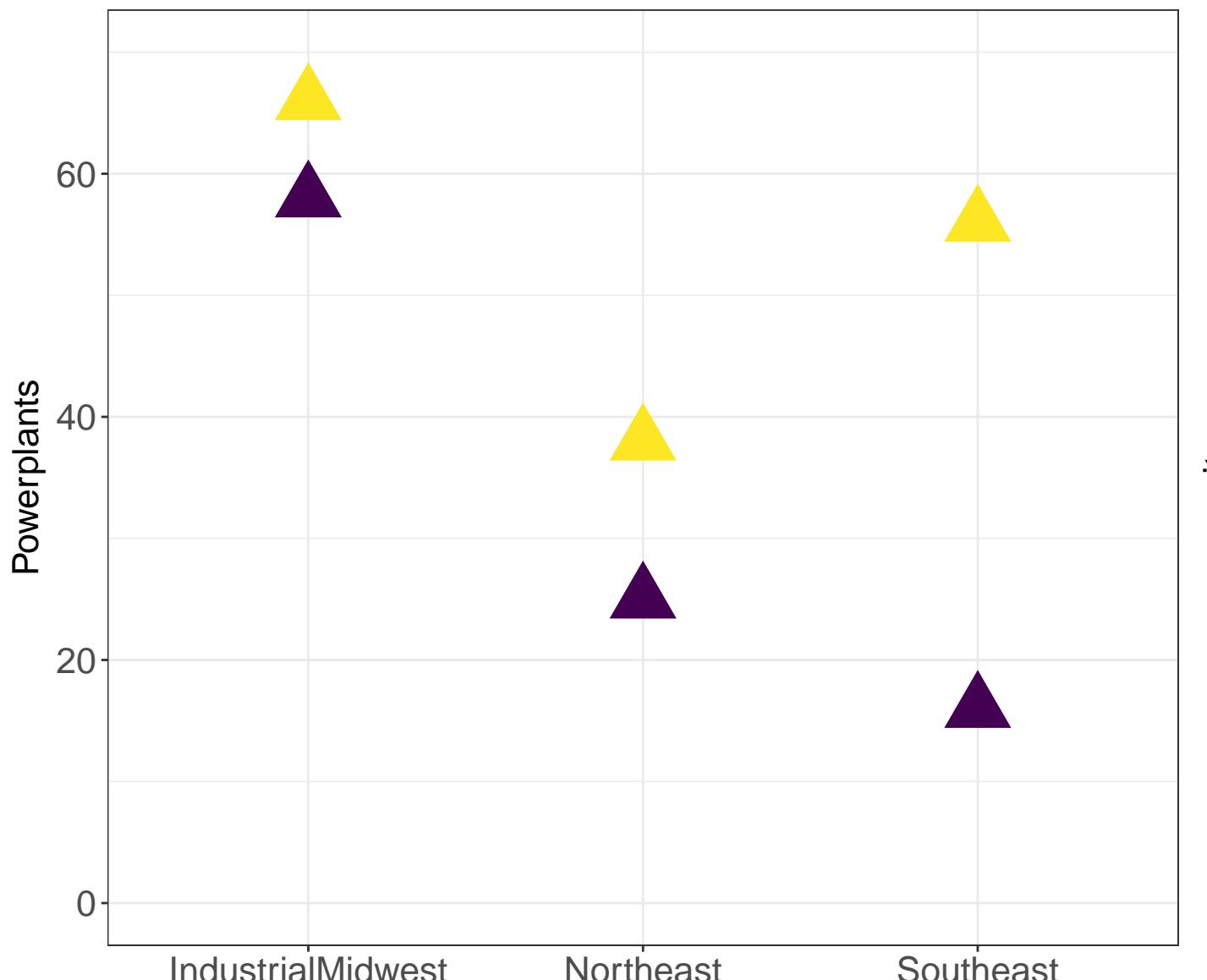
Distance to Source (km) █ 750–1000 █ 500–750 █ 250–500 █ 0–250

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

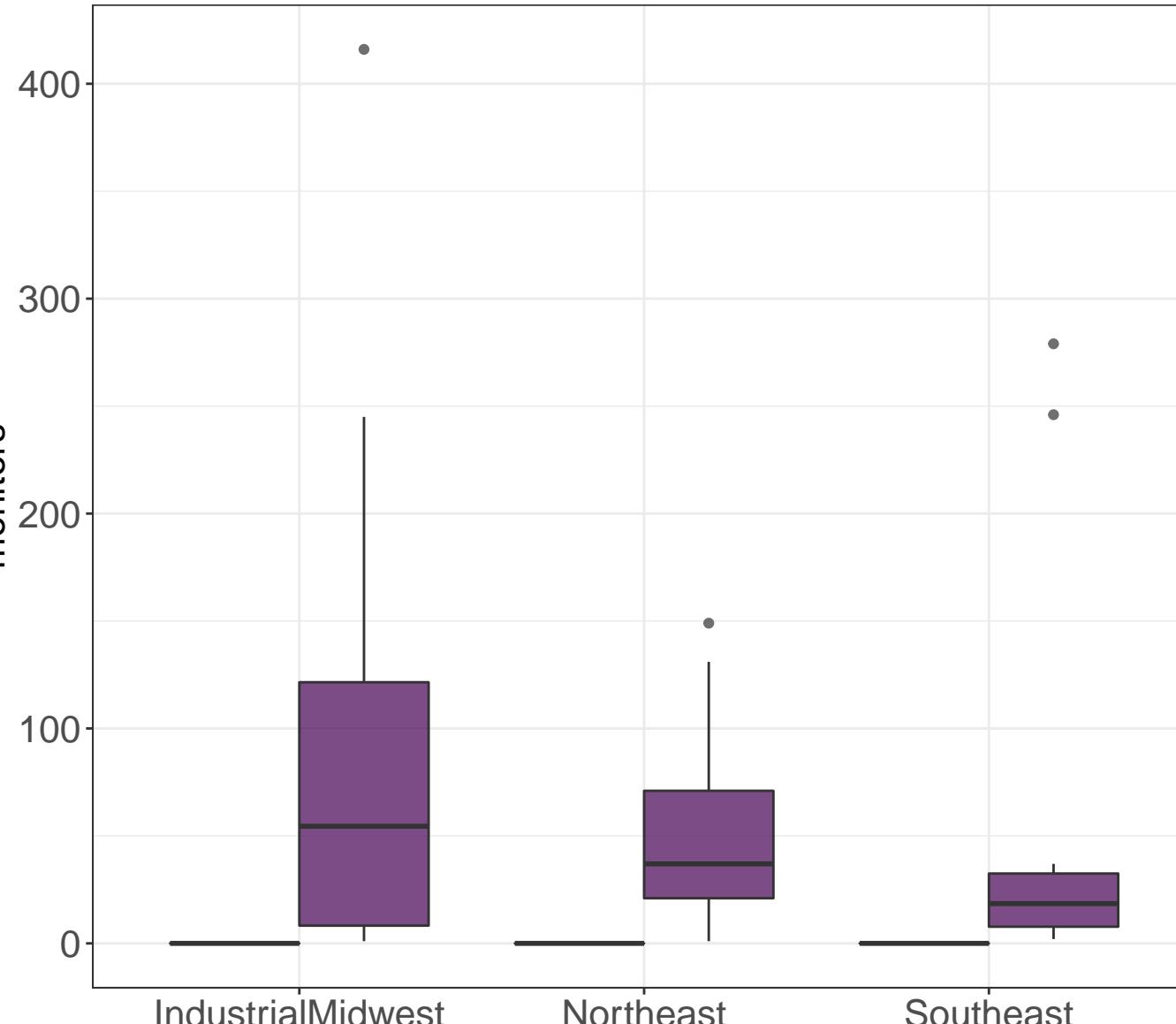
Distance to Source (km) █ 750–1000 █ 500–750 █ 250–500 █ 0–250

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

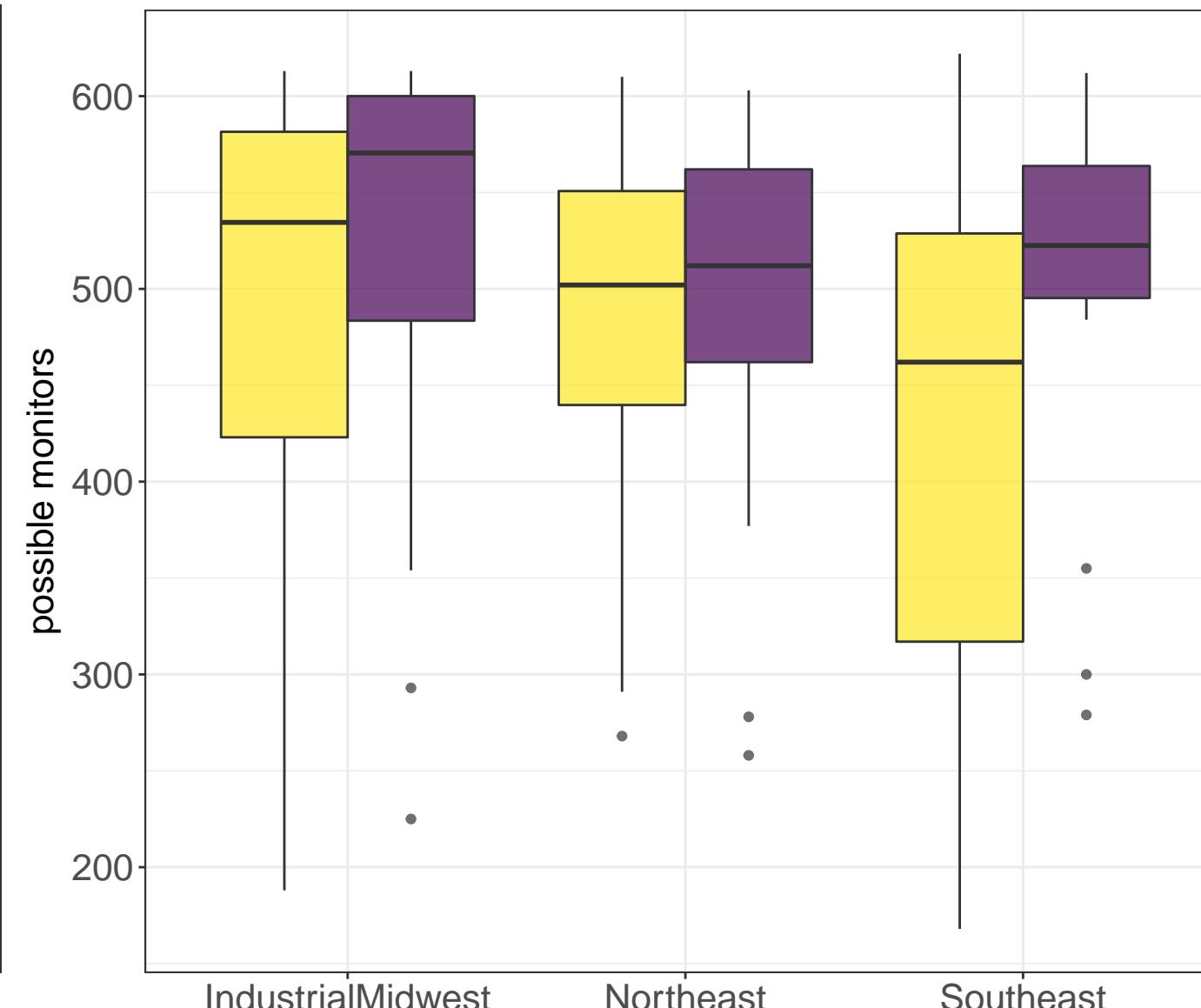
Number of powerplants



Number of linked monitors



Number of possible linked monitors

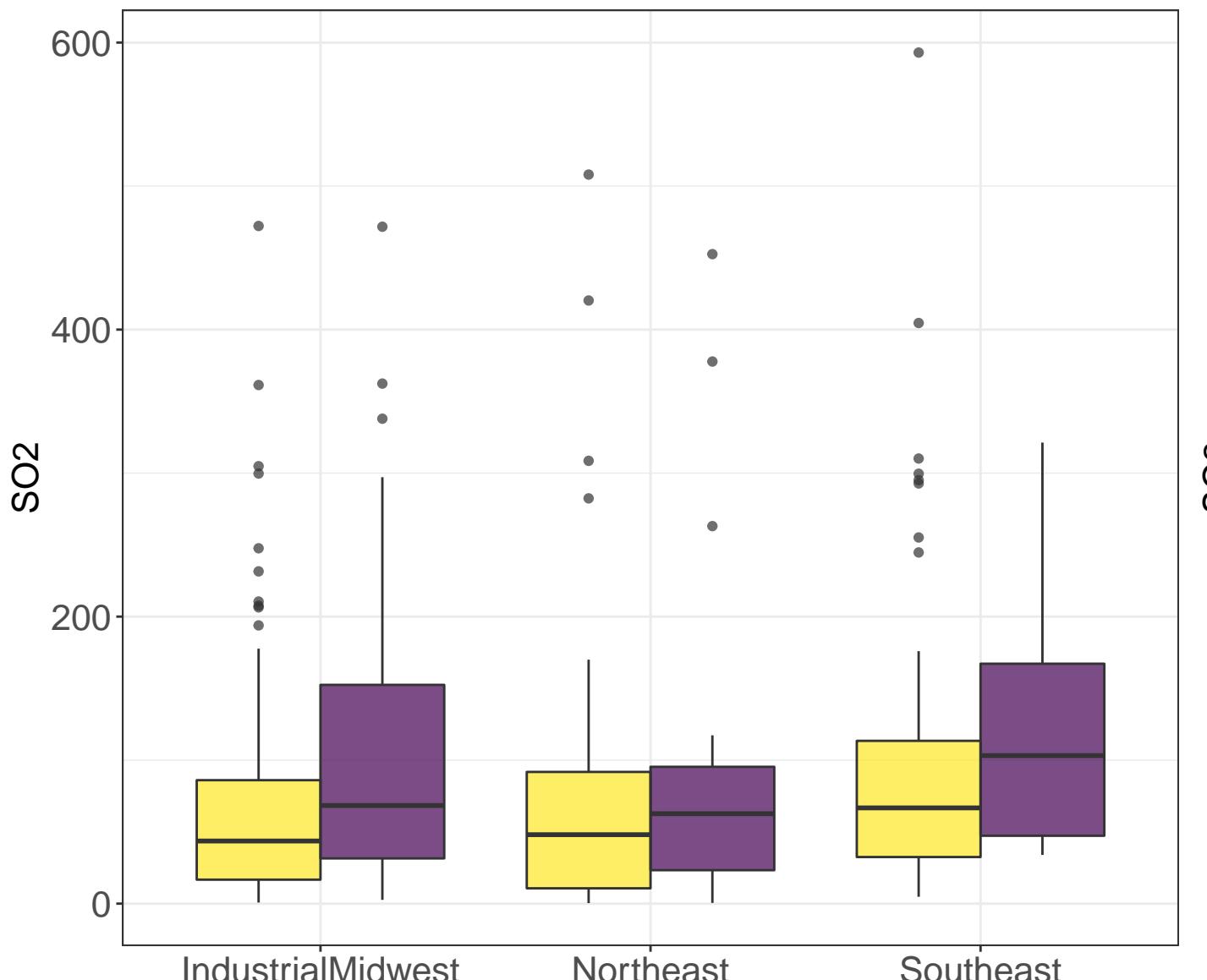


Powerplants: without edges

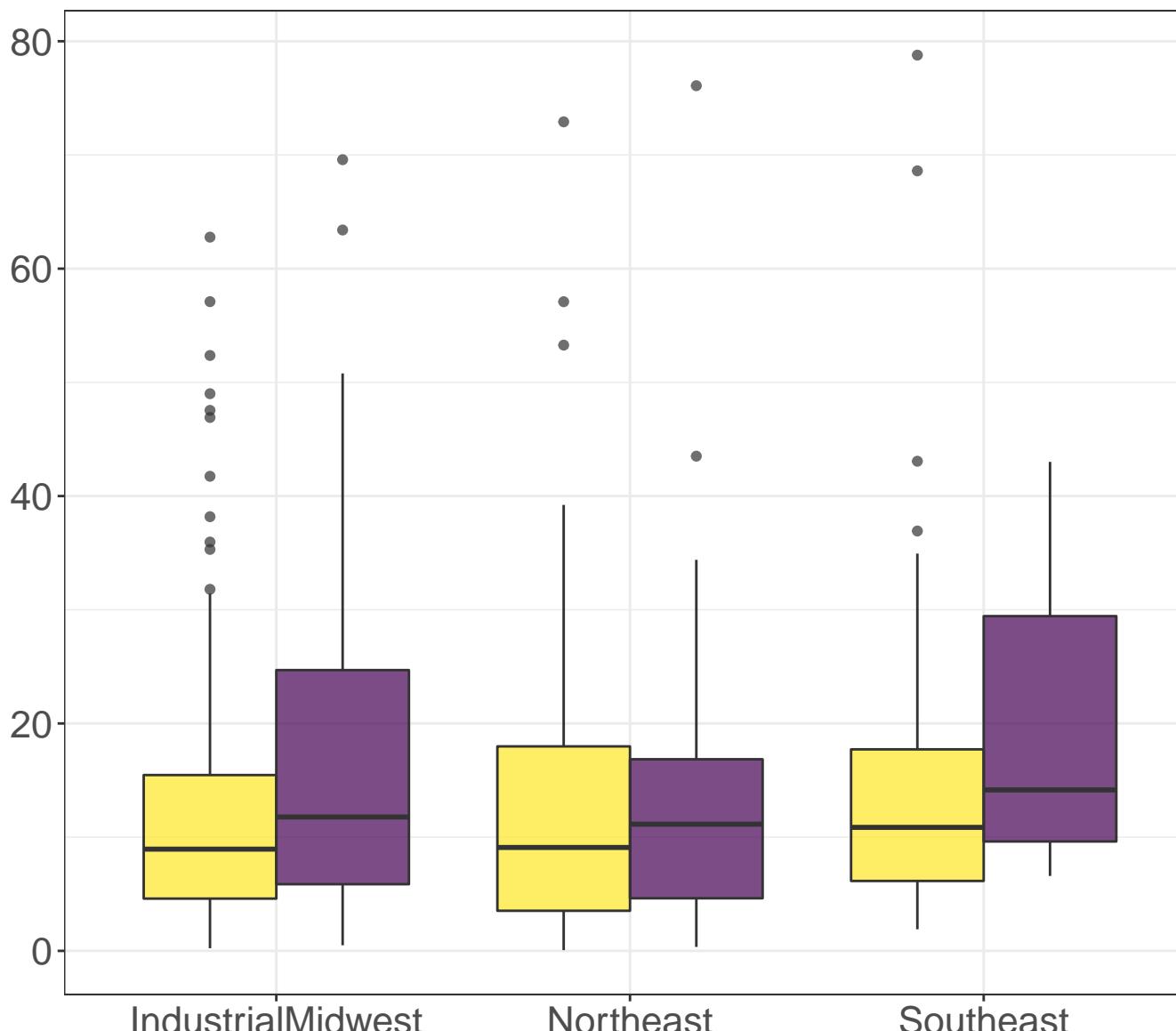


# Why do some power plants have linked monitors and others do not?

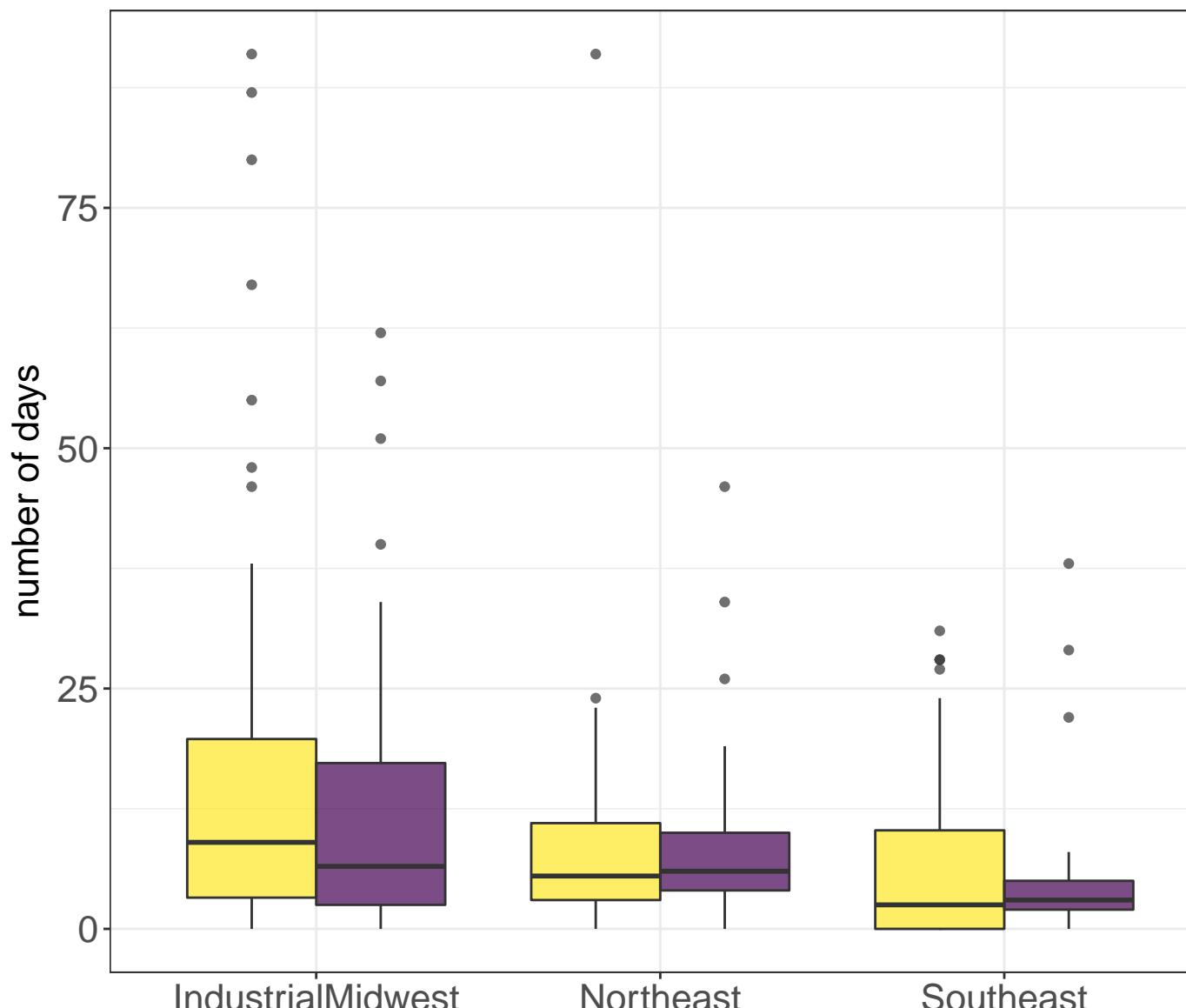
Average daily emissions



Standard deviation in daily emissions



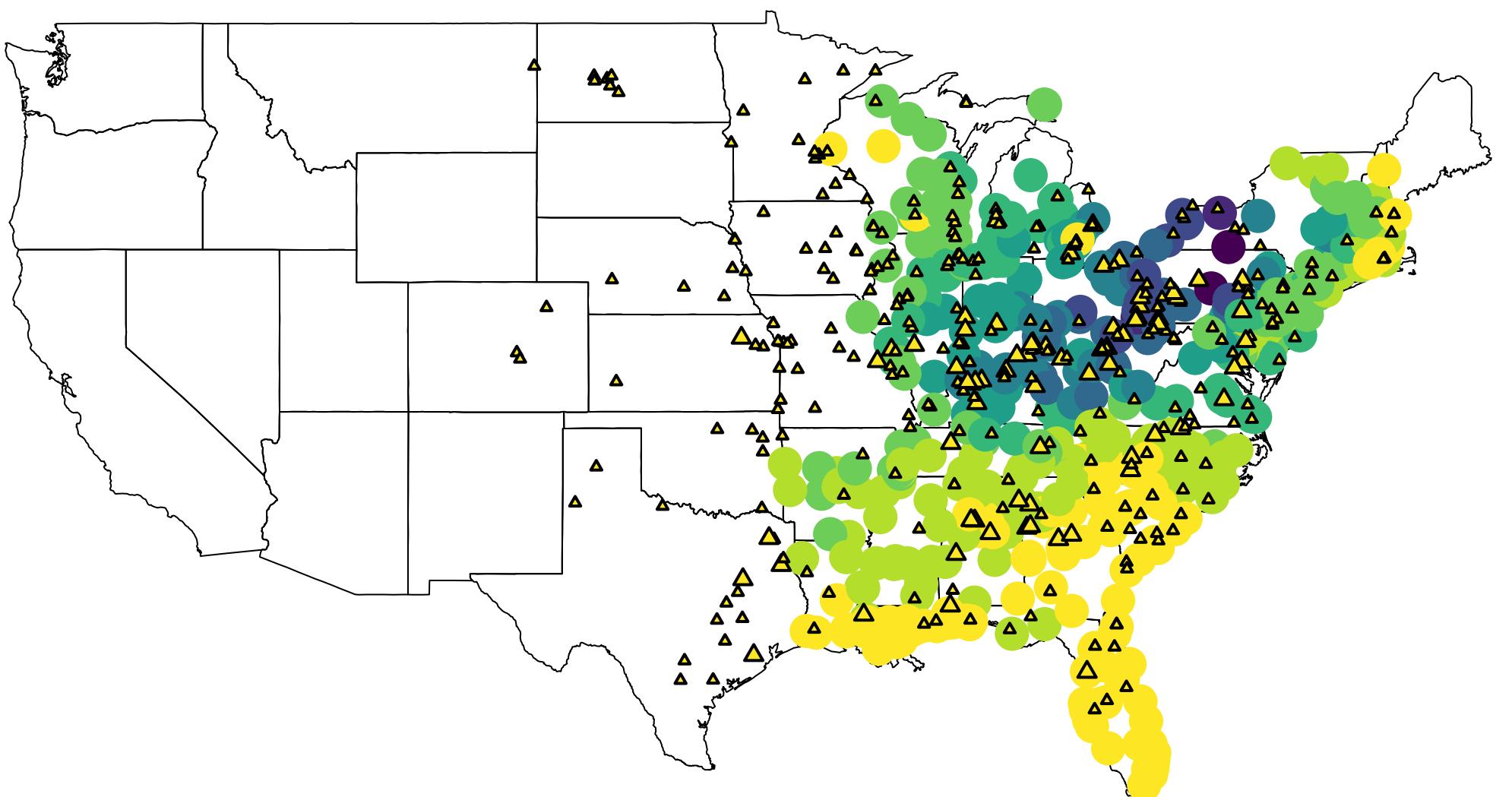
Number of days (out of 91 total) with missing emissions data



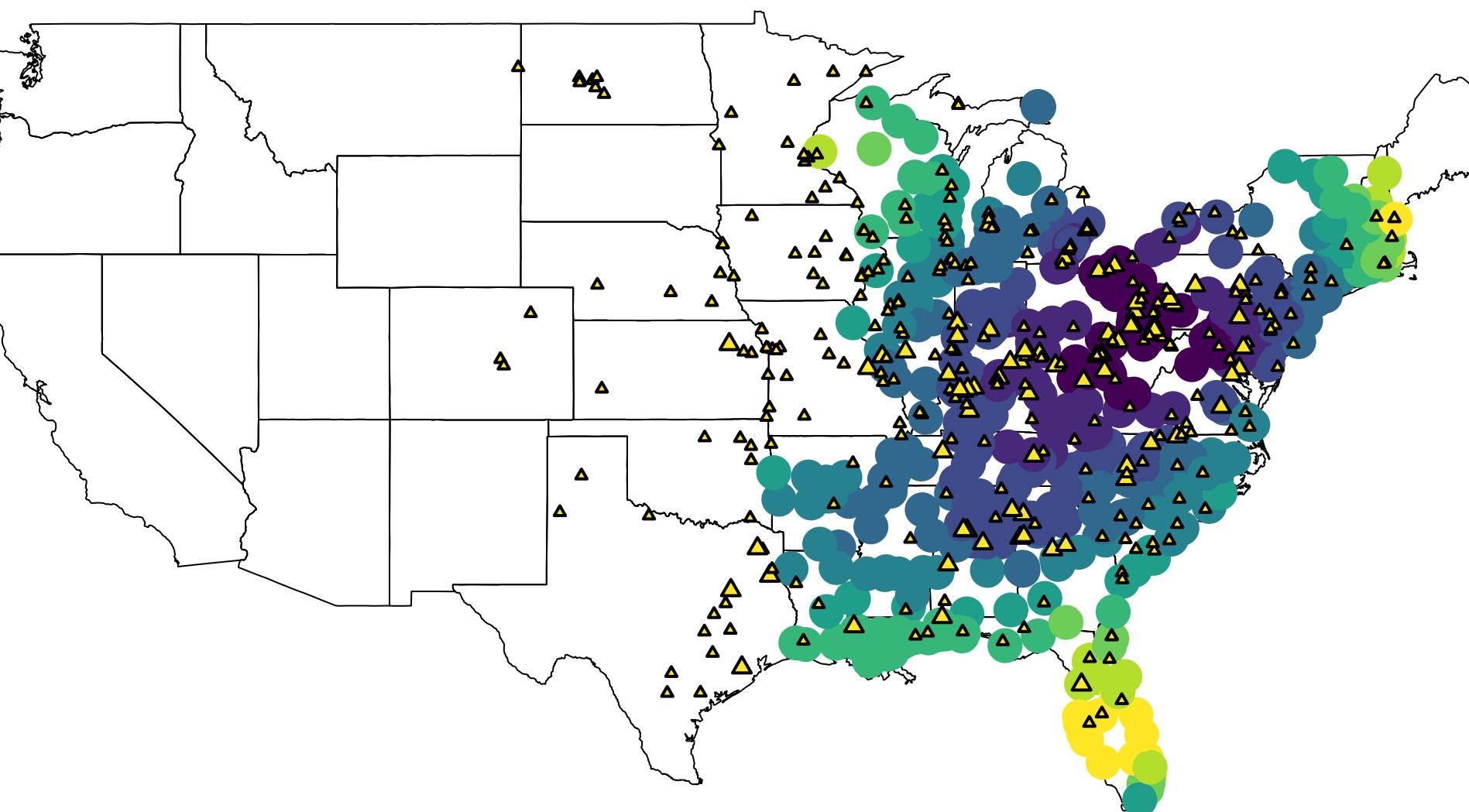
Powerplants: without edges



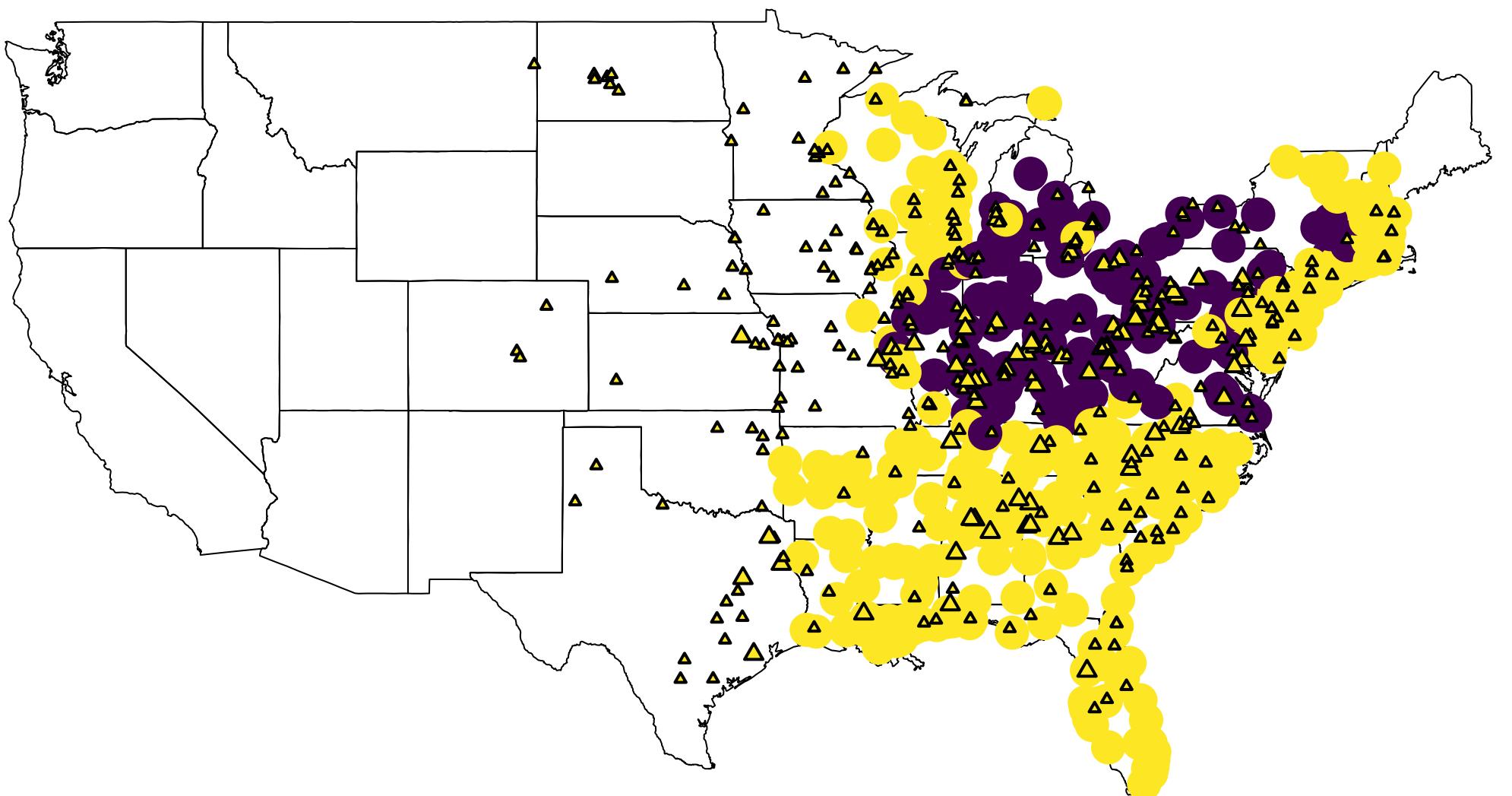
**Monitor exposure: sum of gams.coeff, summer 2005**



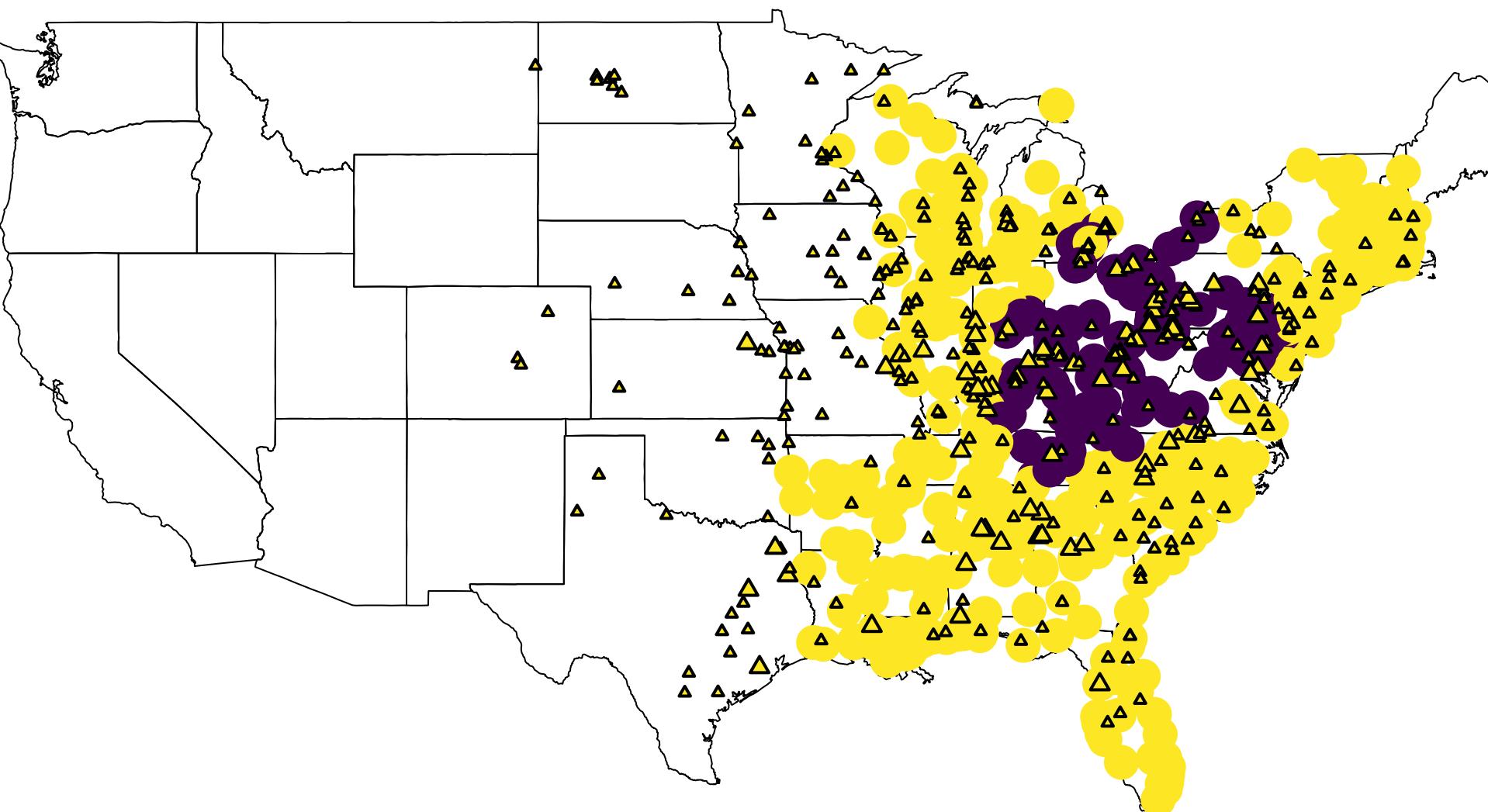
**Monitor exposure: avgPM, decomposed75 summer 2005**



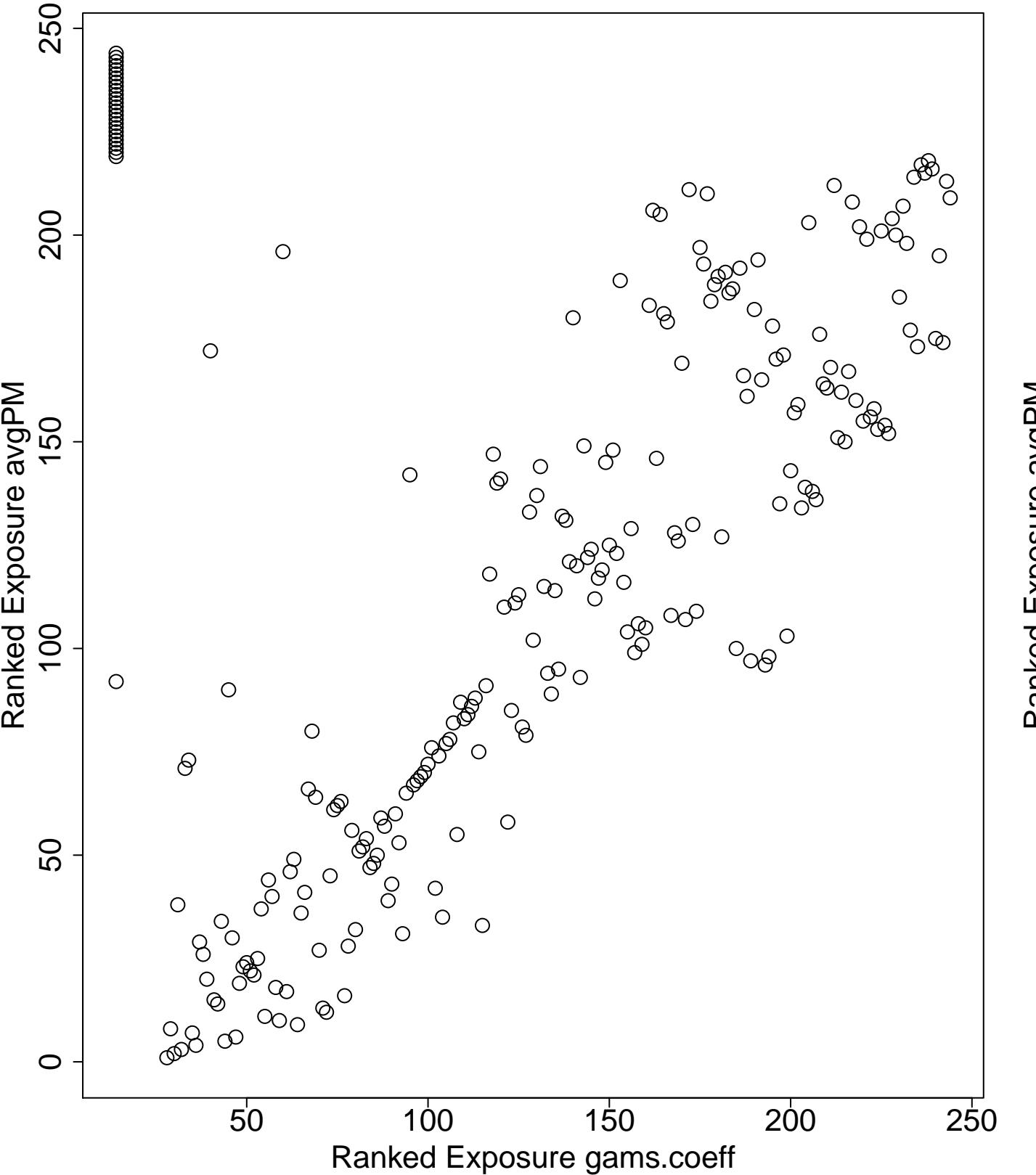
**Highest exposed: sum of gams.coeff, summer 2005**



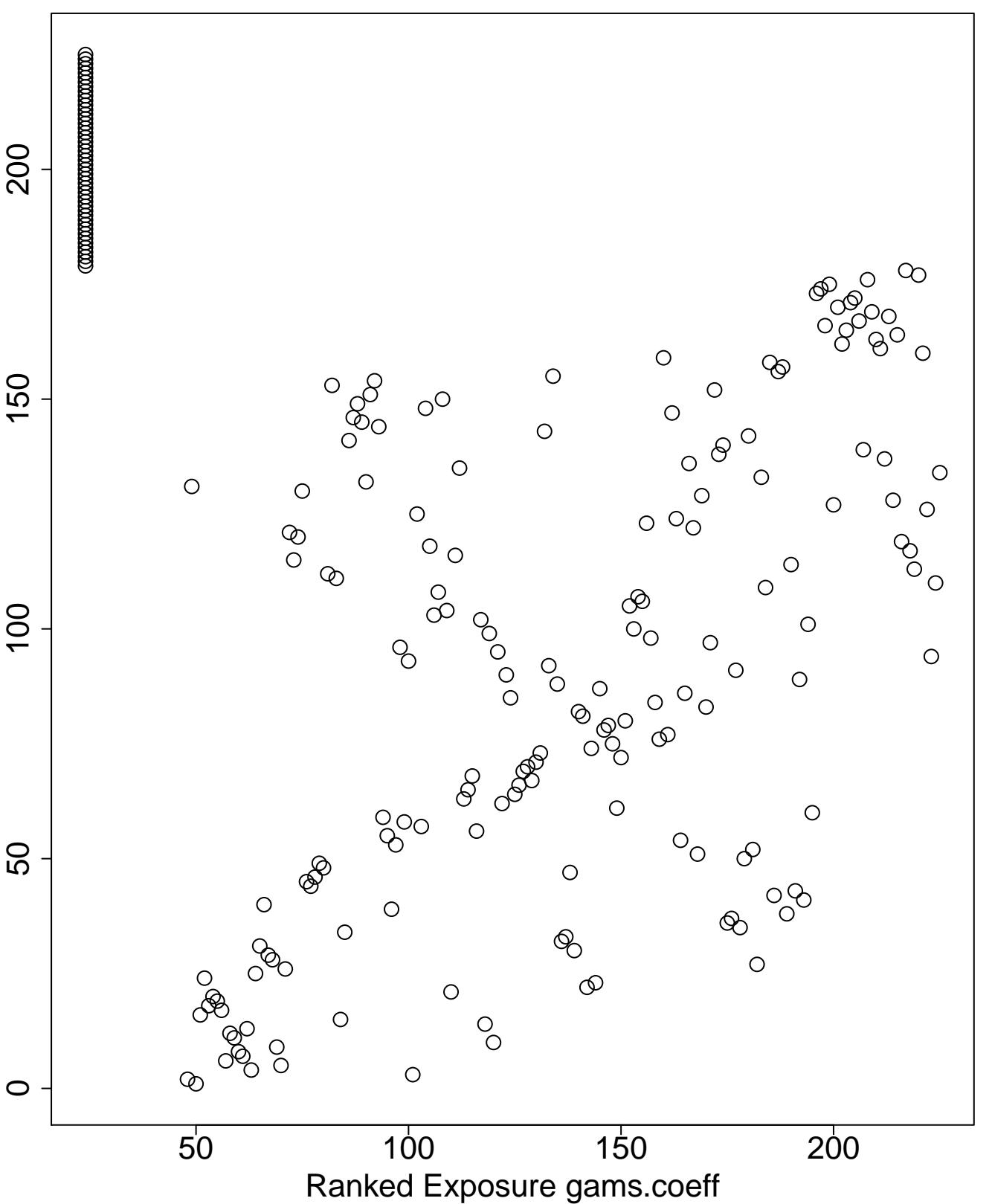
**Highest exposed: avgPM, decomposed75 summer 2005**



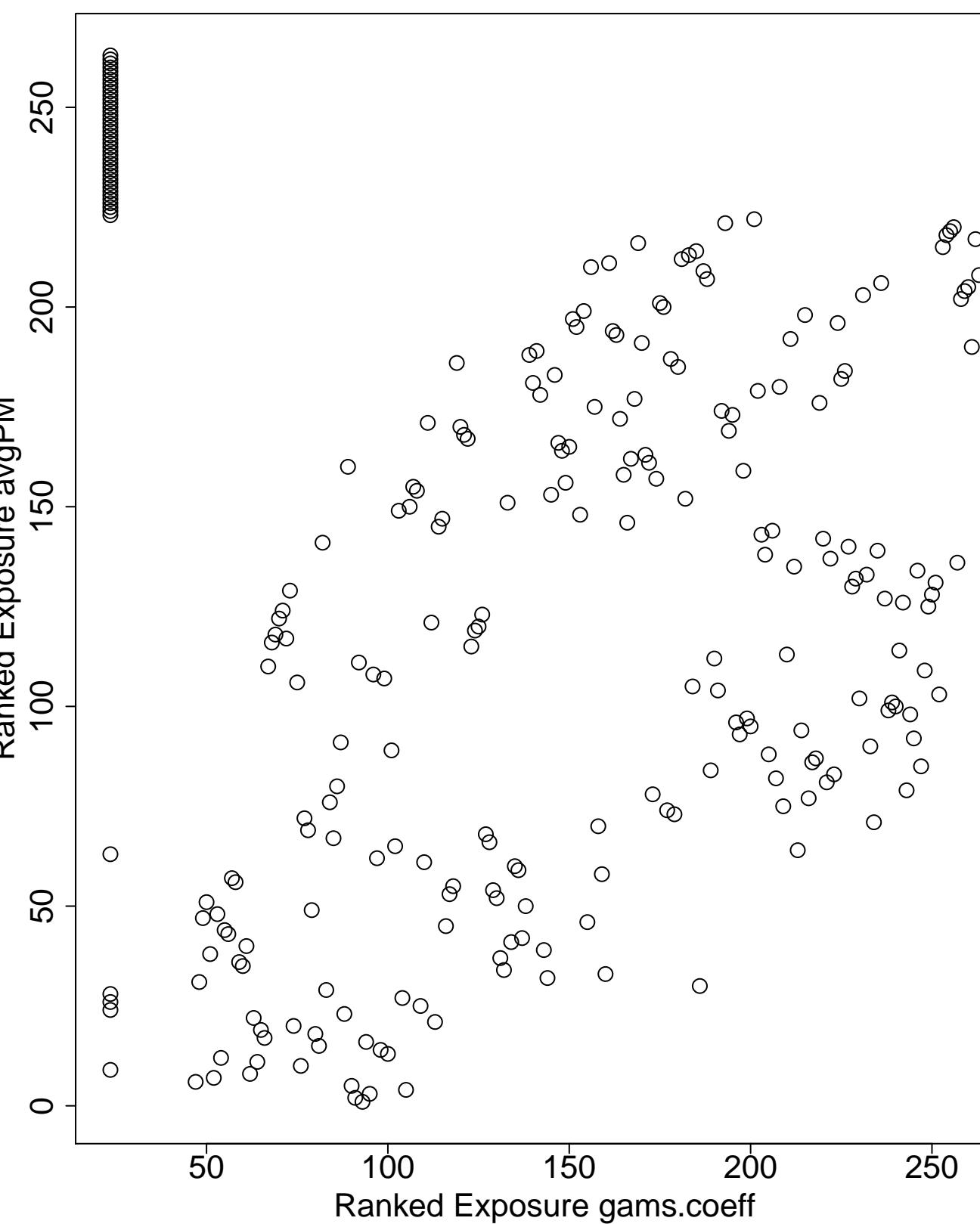
**IndustrialMidwest correlation = 0.87**



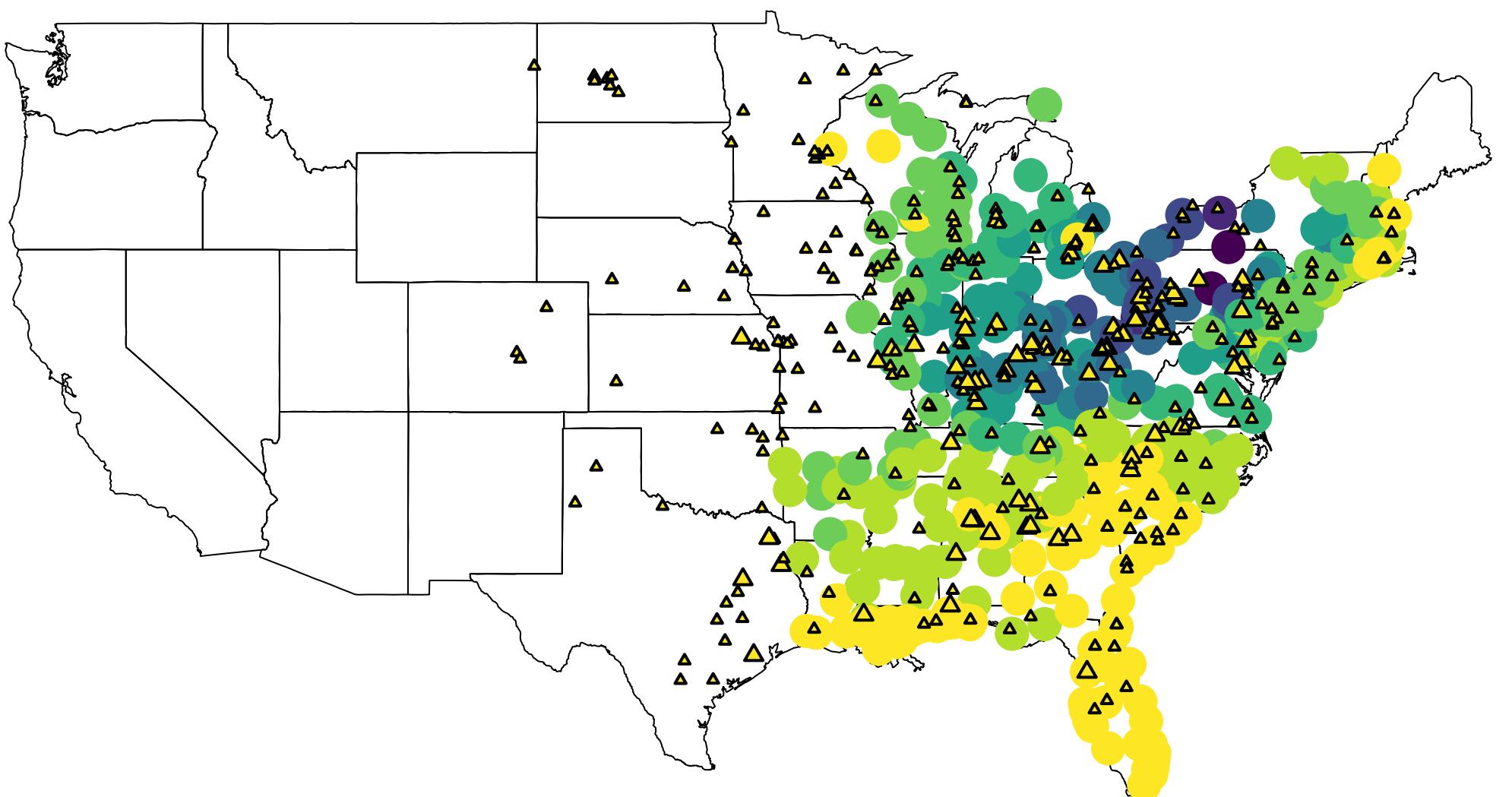
**Northeast correlation = 0.55**



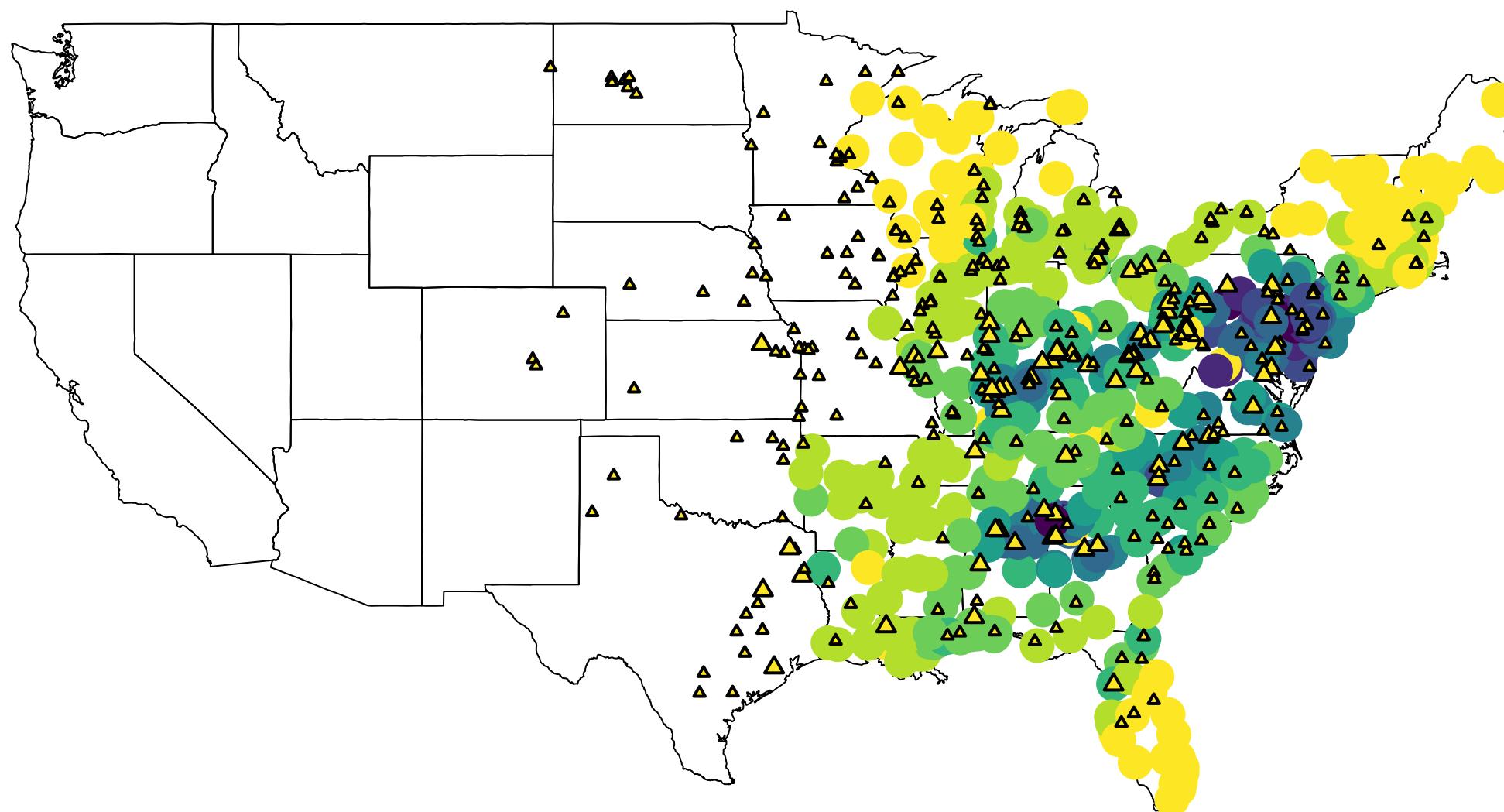
**Southeast correlation = 0.53**



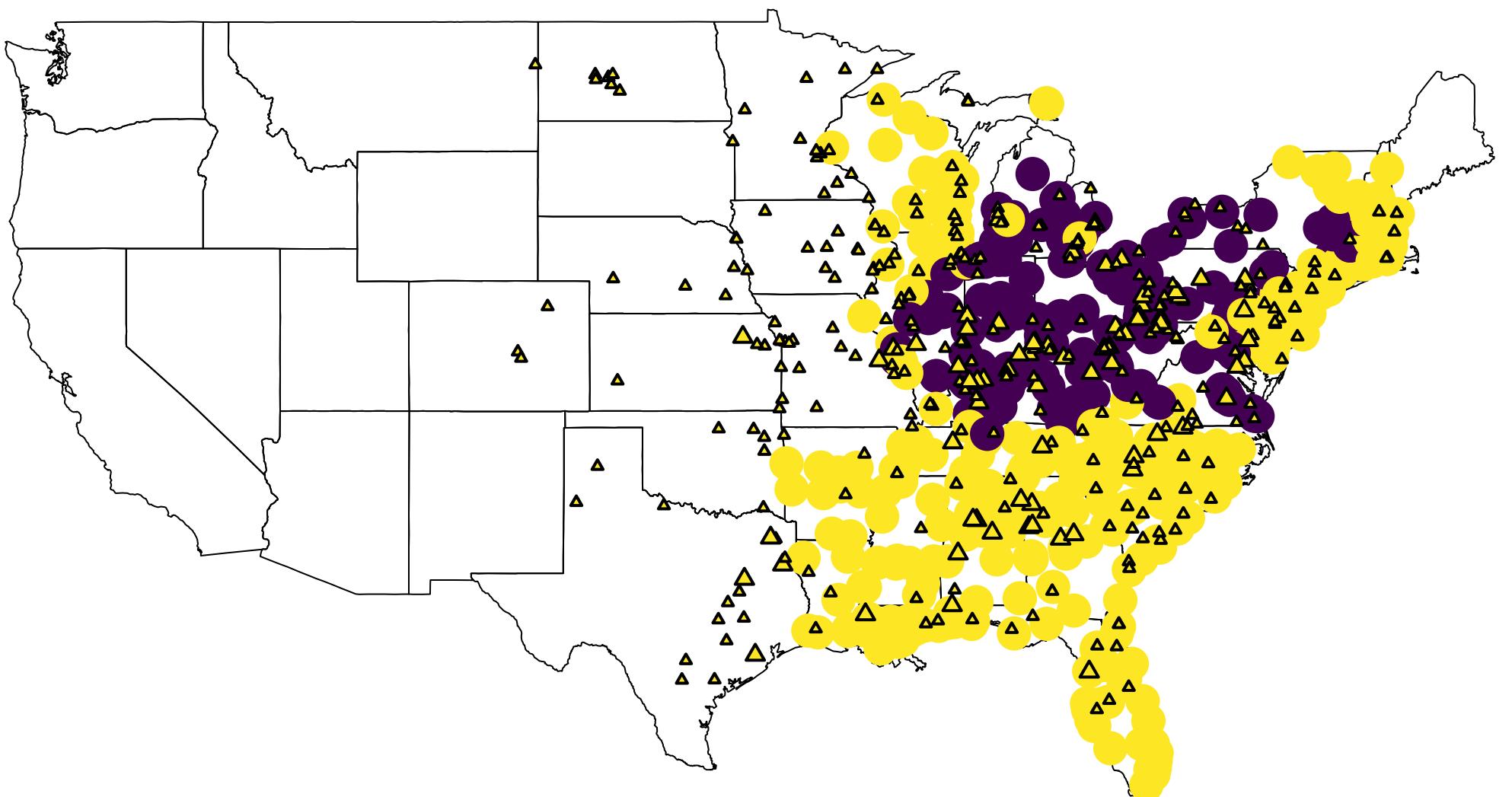
**Monitor exposure: sum of gams.coeff, summer 2005**



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



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



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

