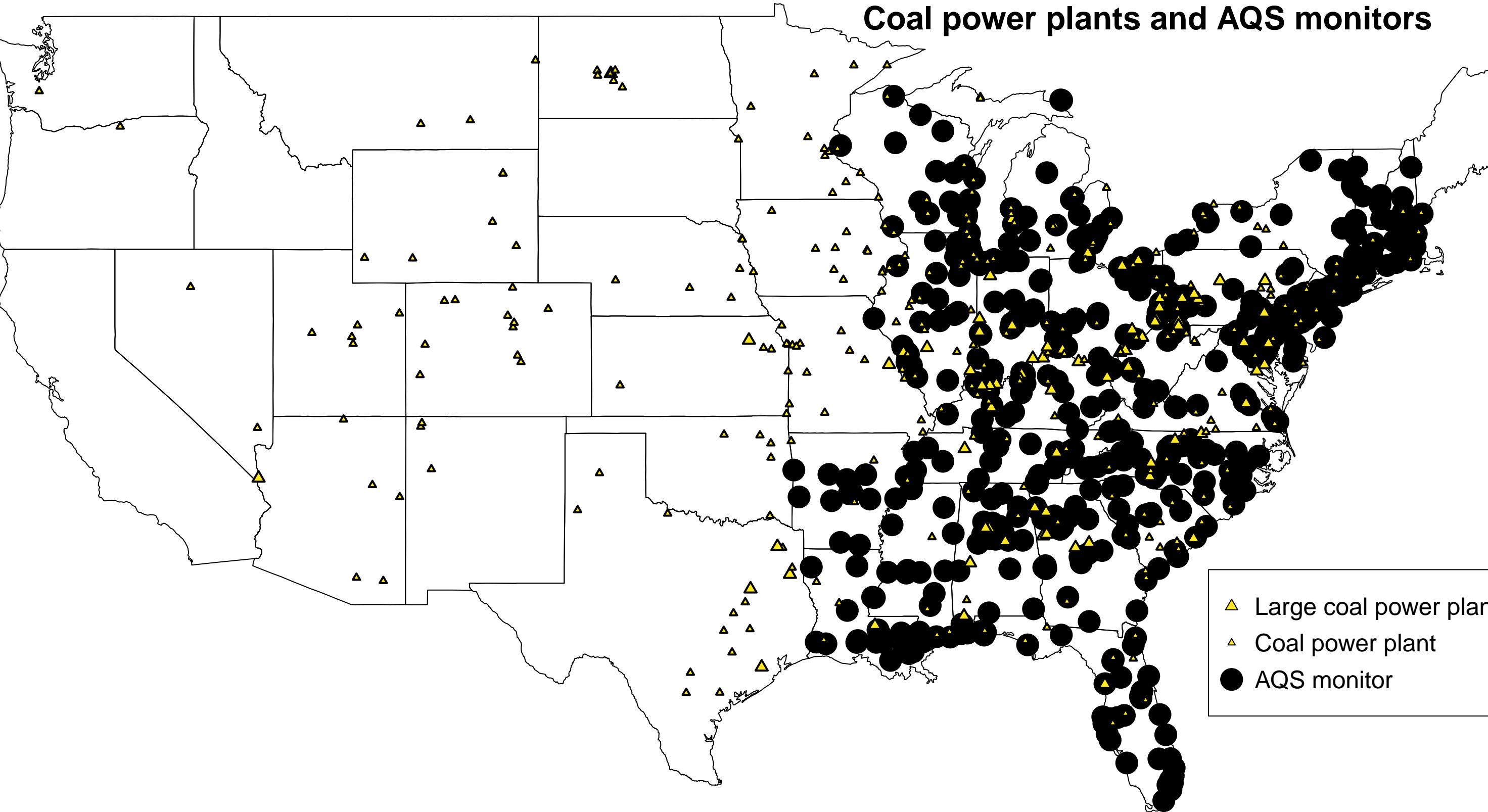
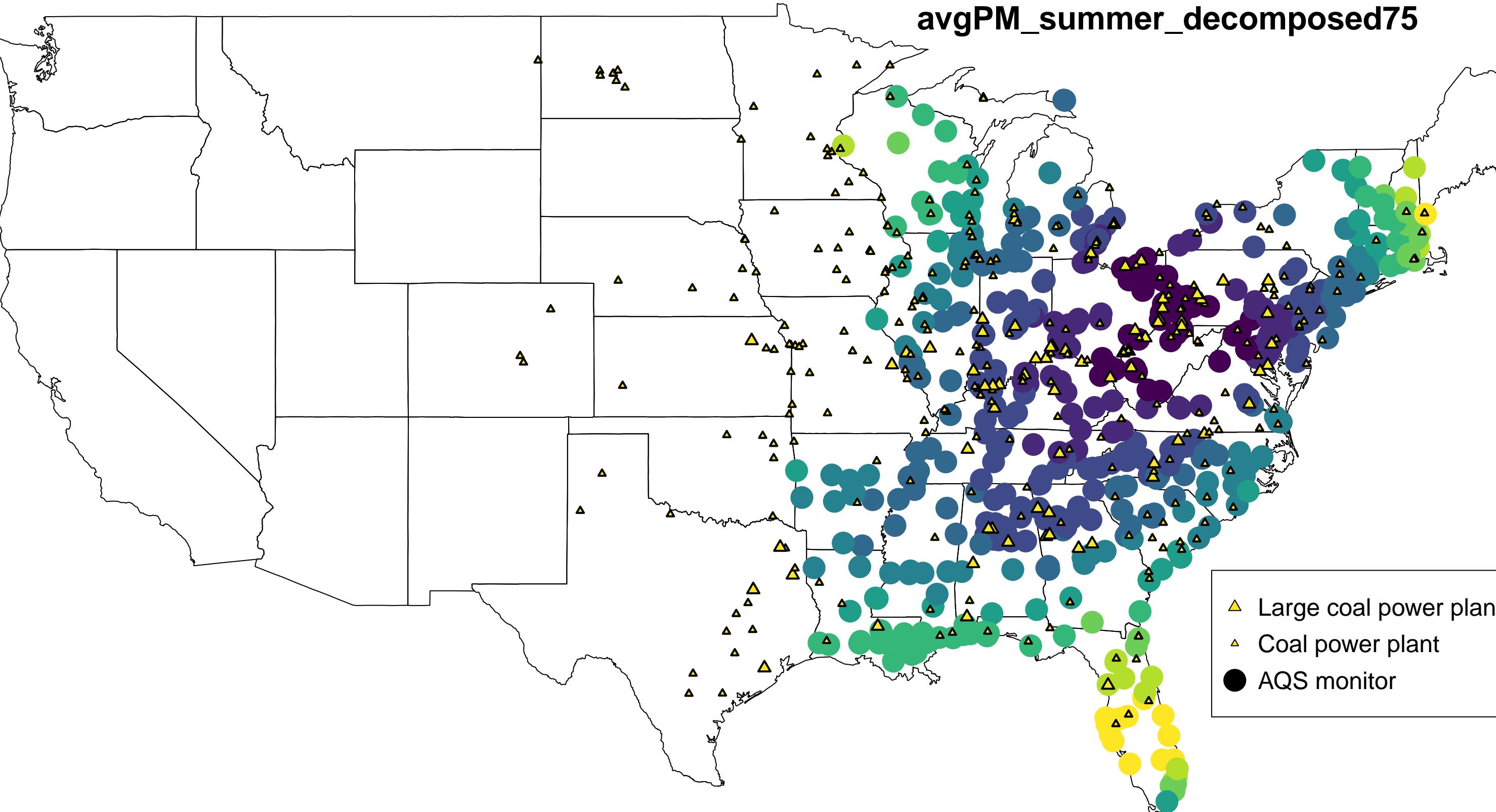


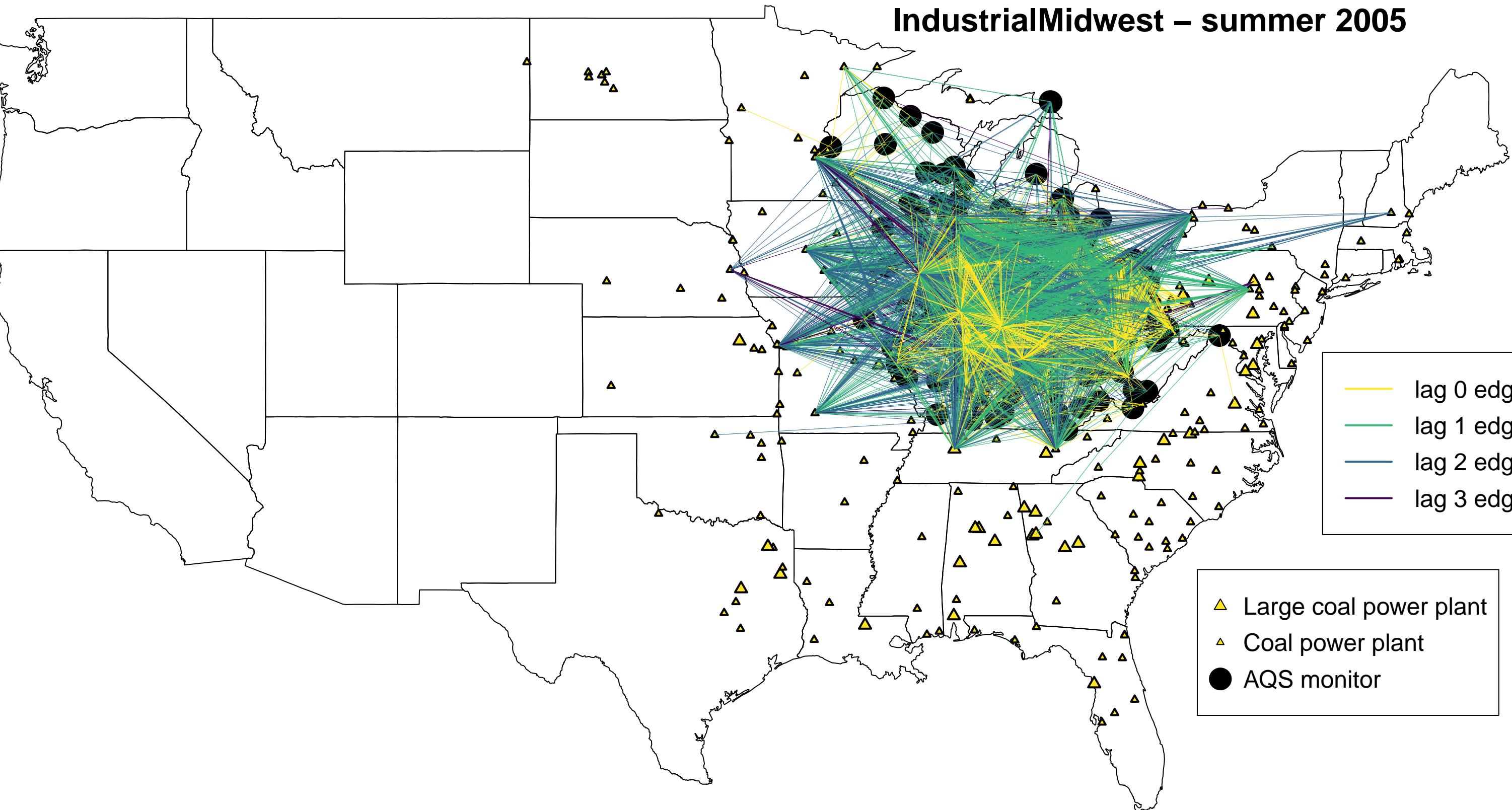
Coal power plants and AQS monitors



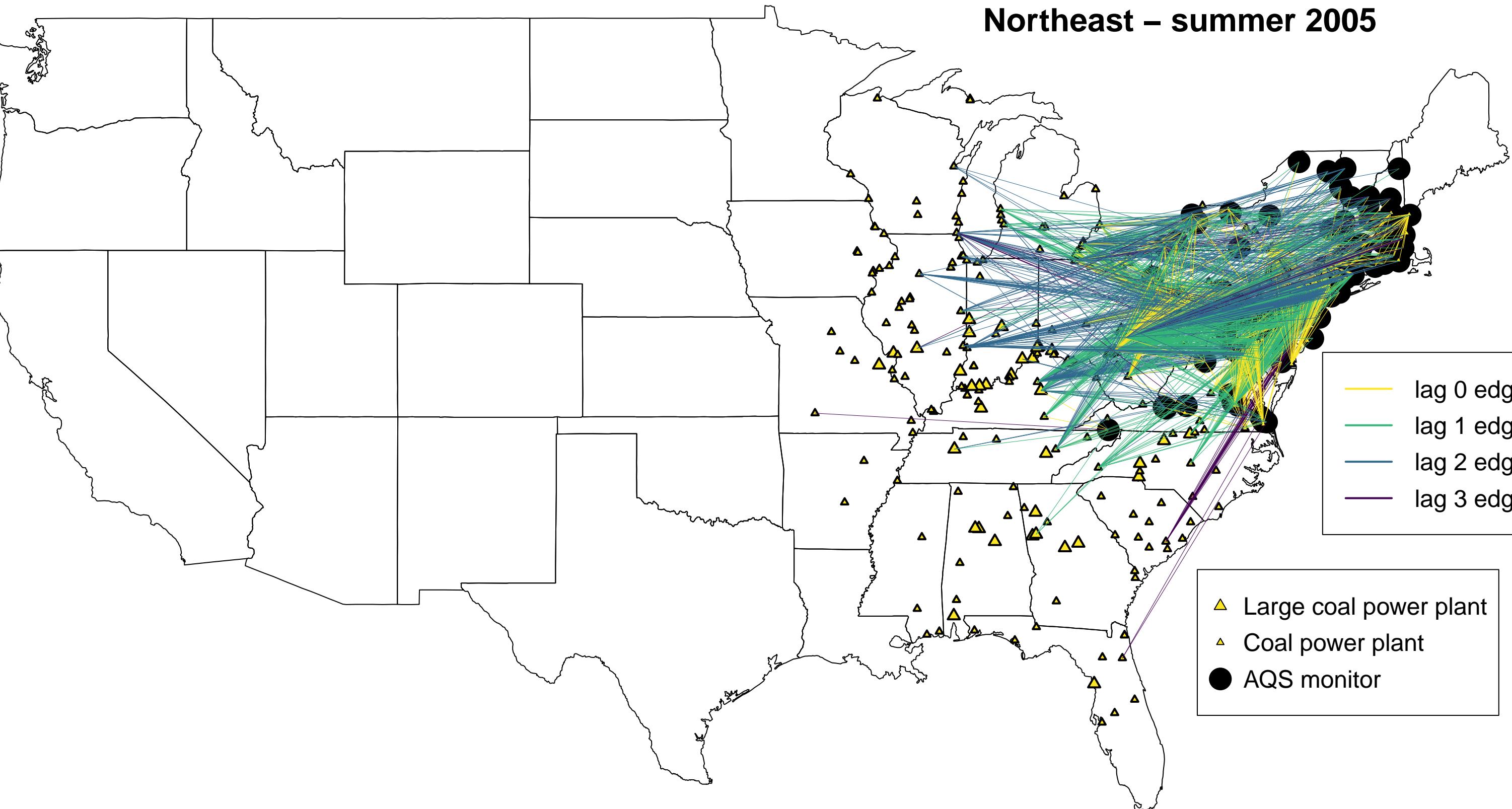
avgPM_summer_decomposed75



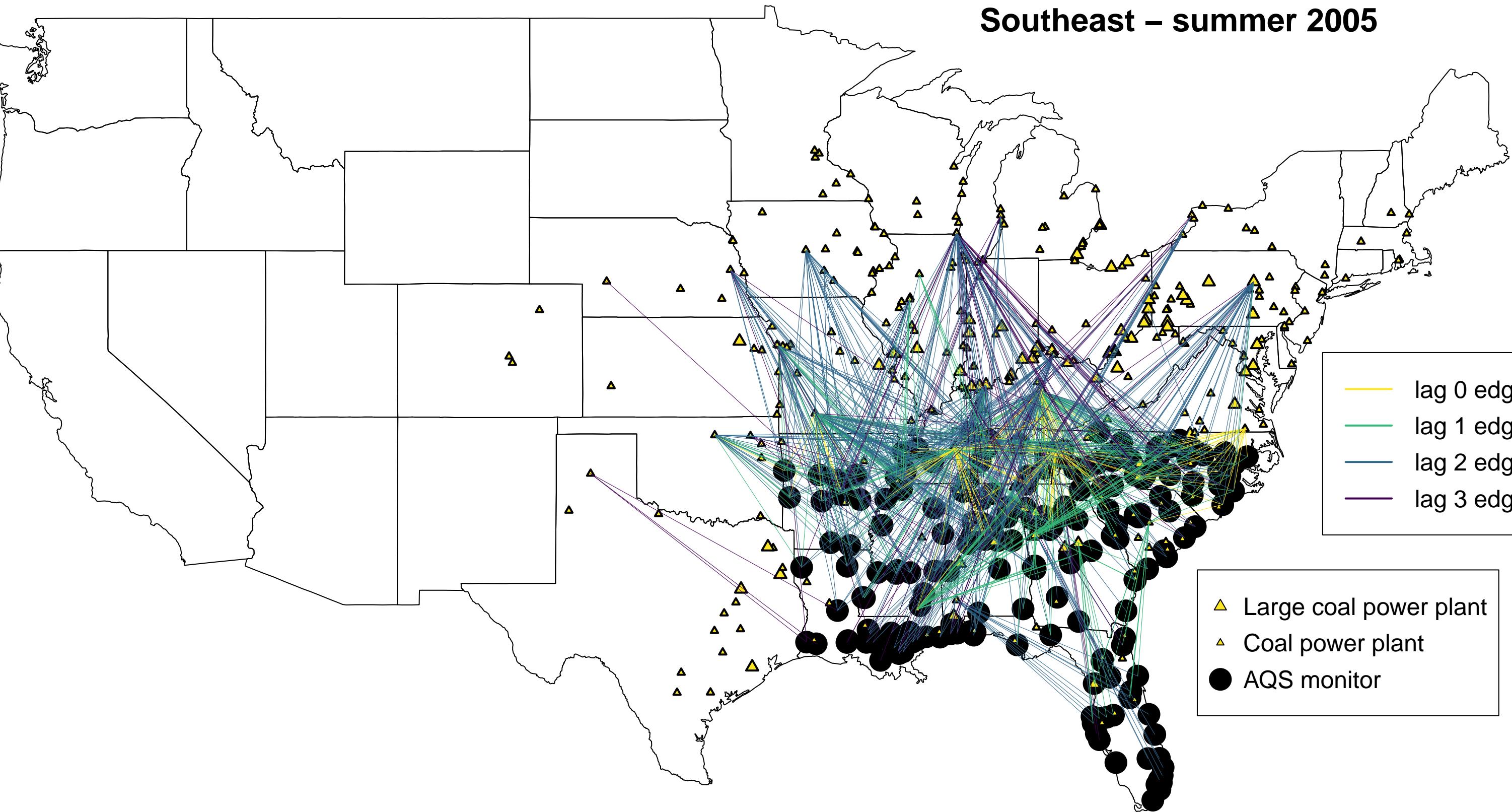
IndustrialMidwest – summer 2005



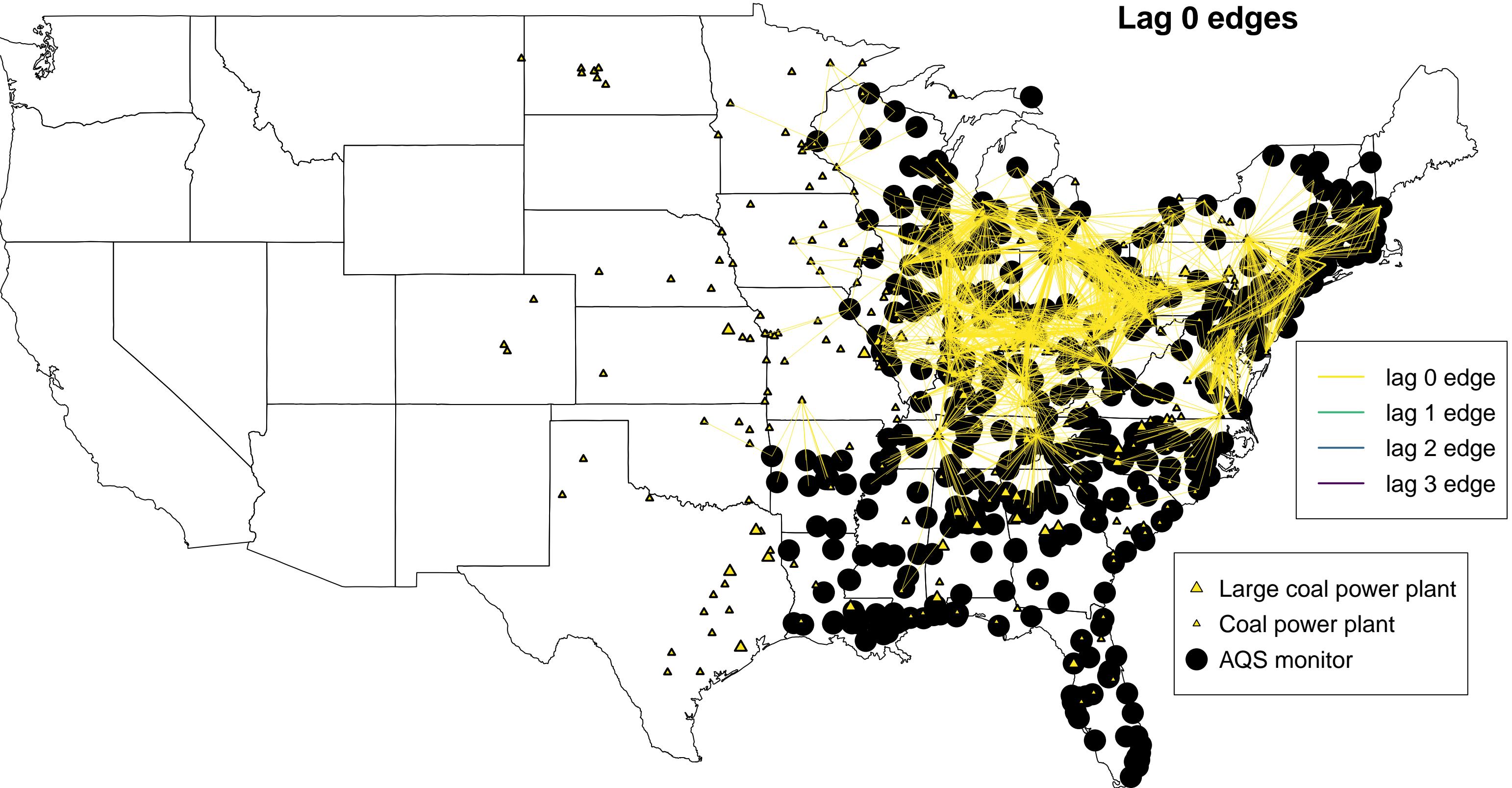
Northeast – summer 2005



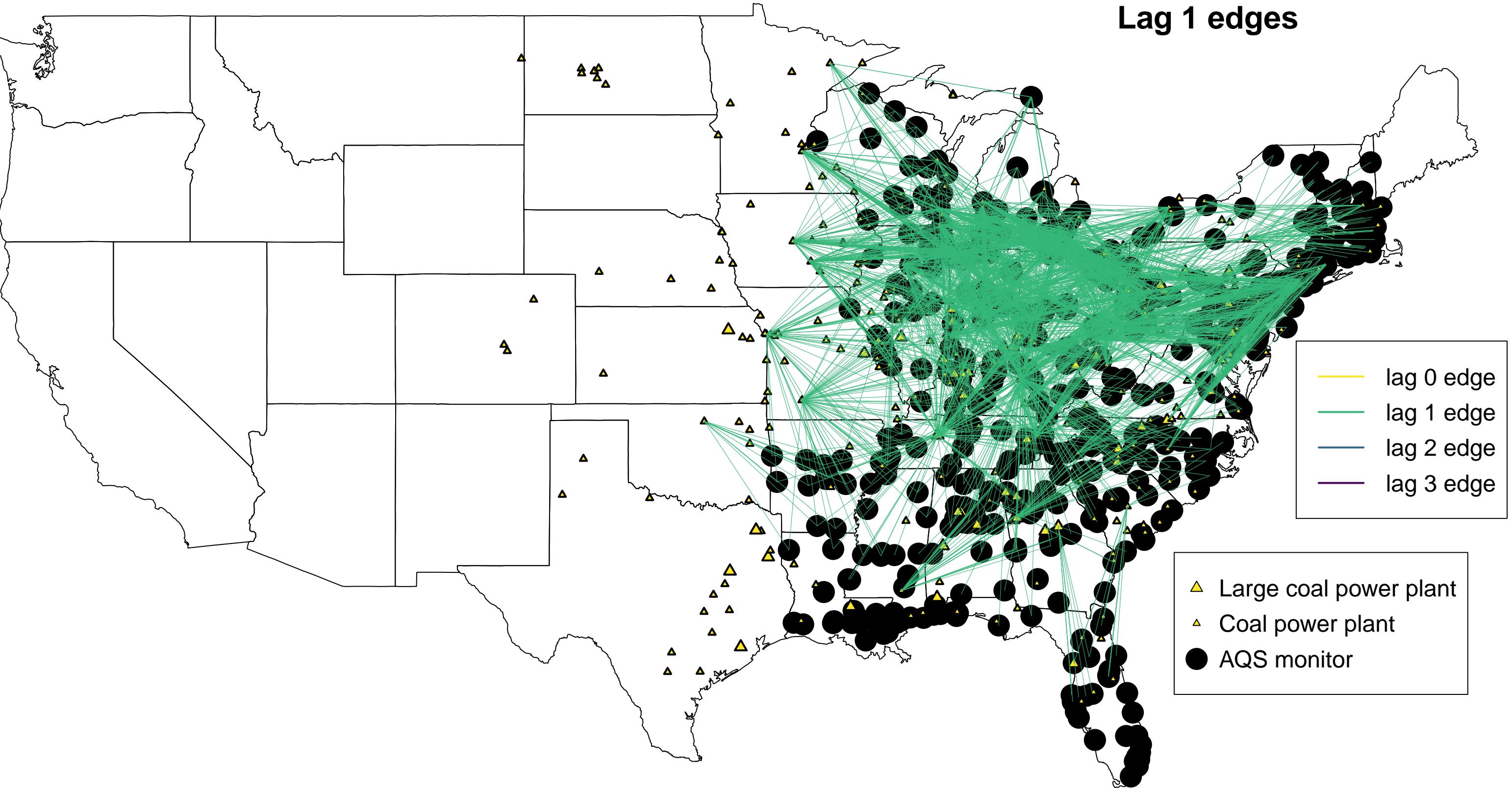
Southeast – summer 2005



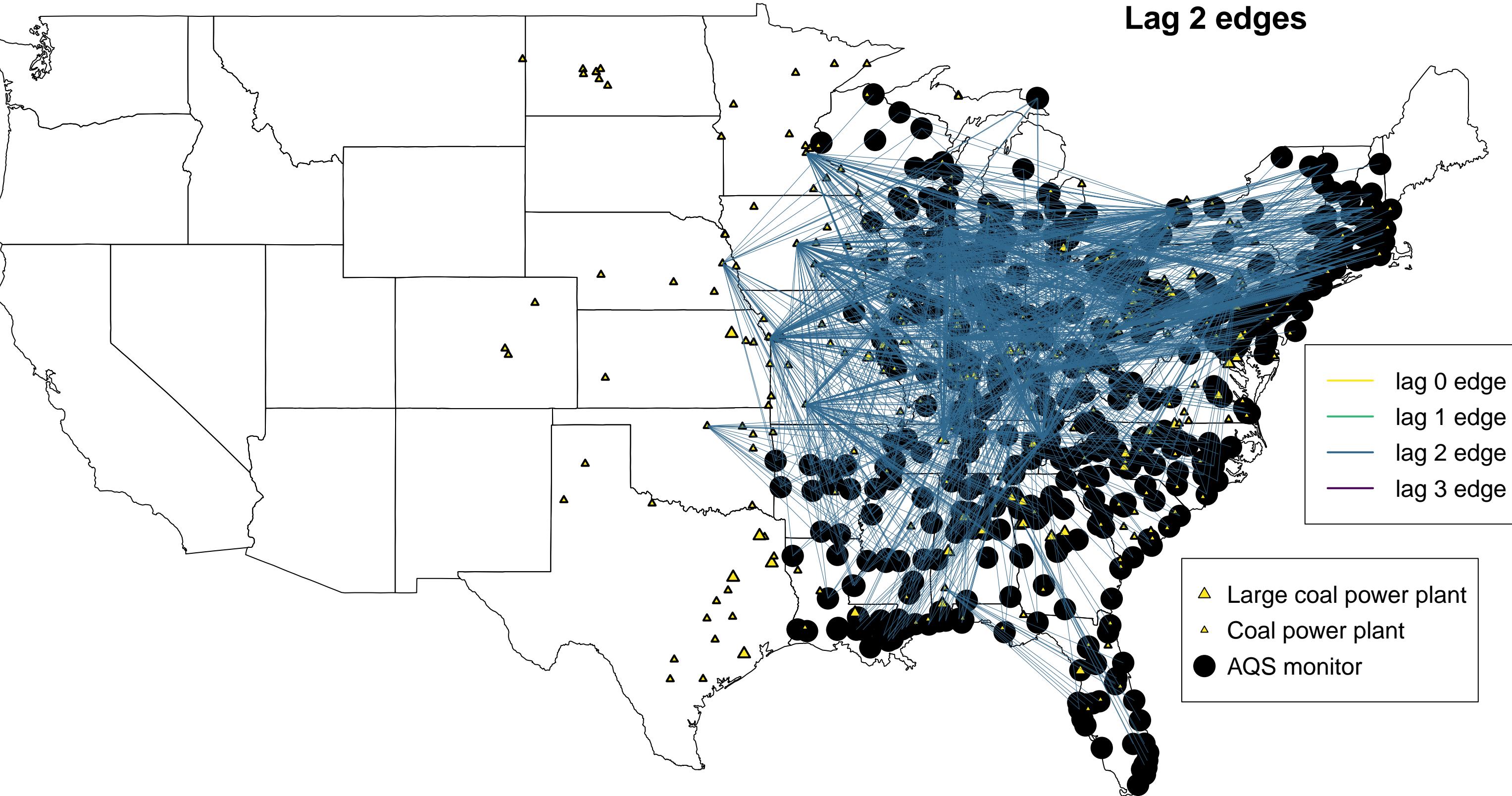
Lag 0 edges



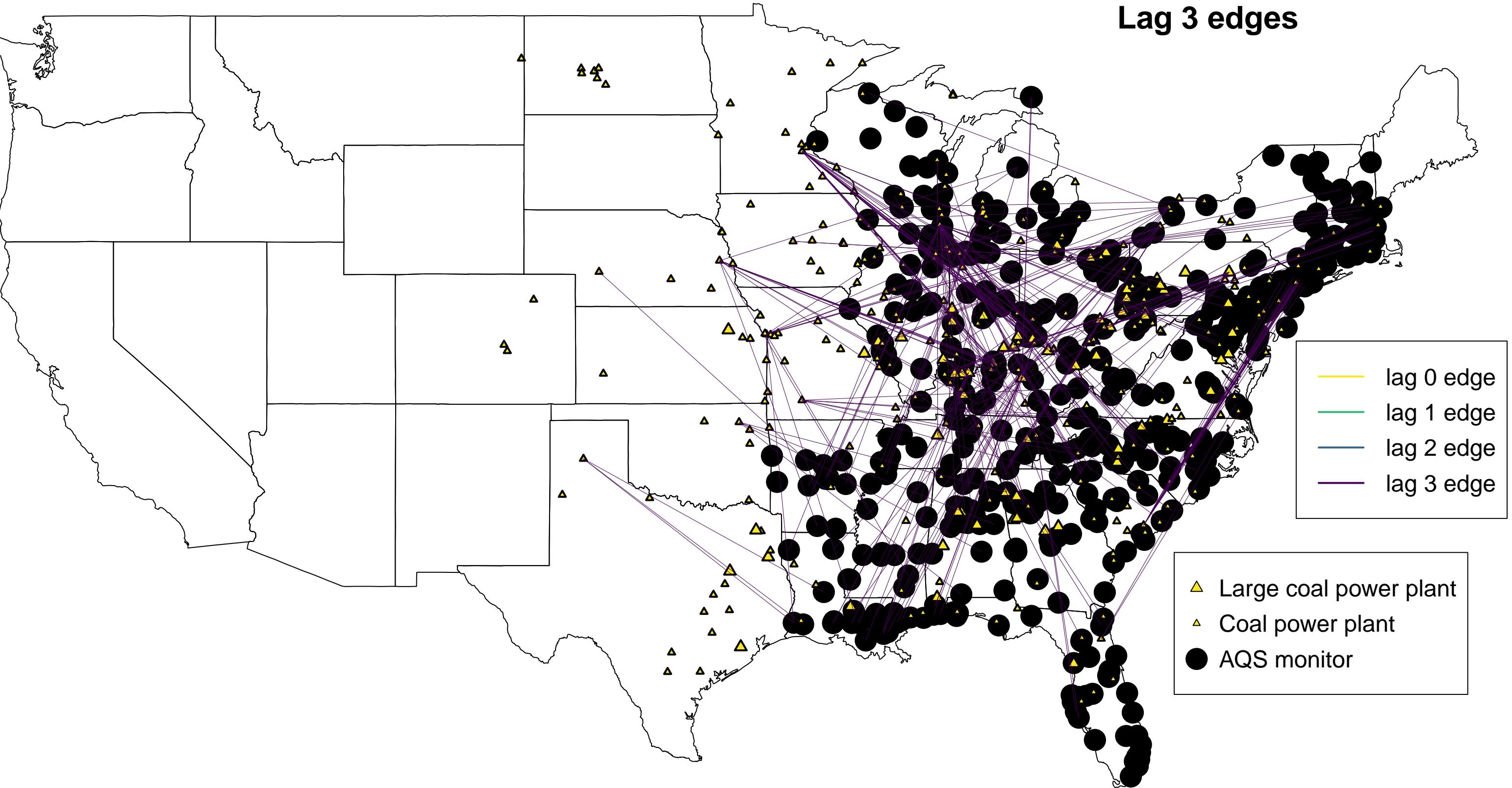
Lag 1 edges

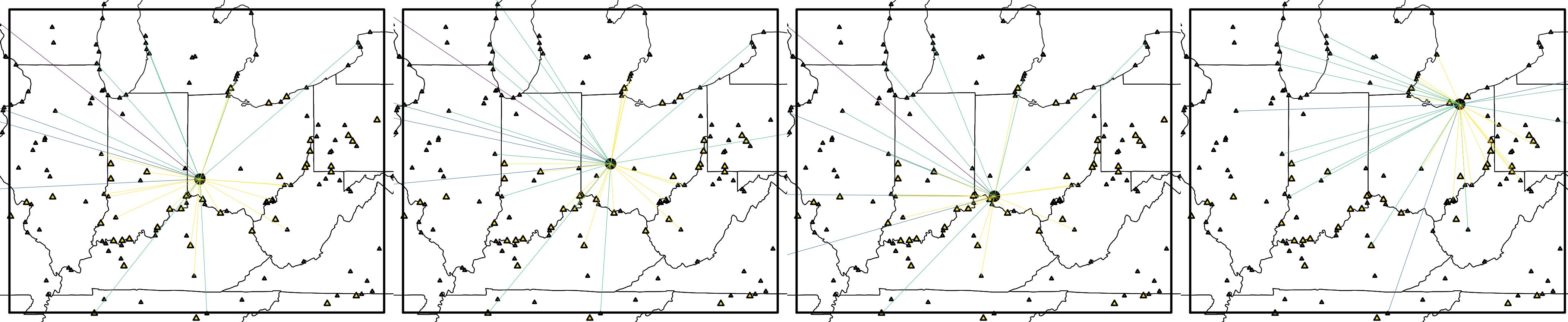


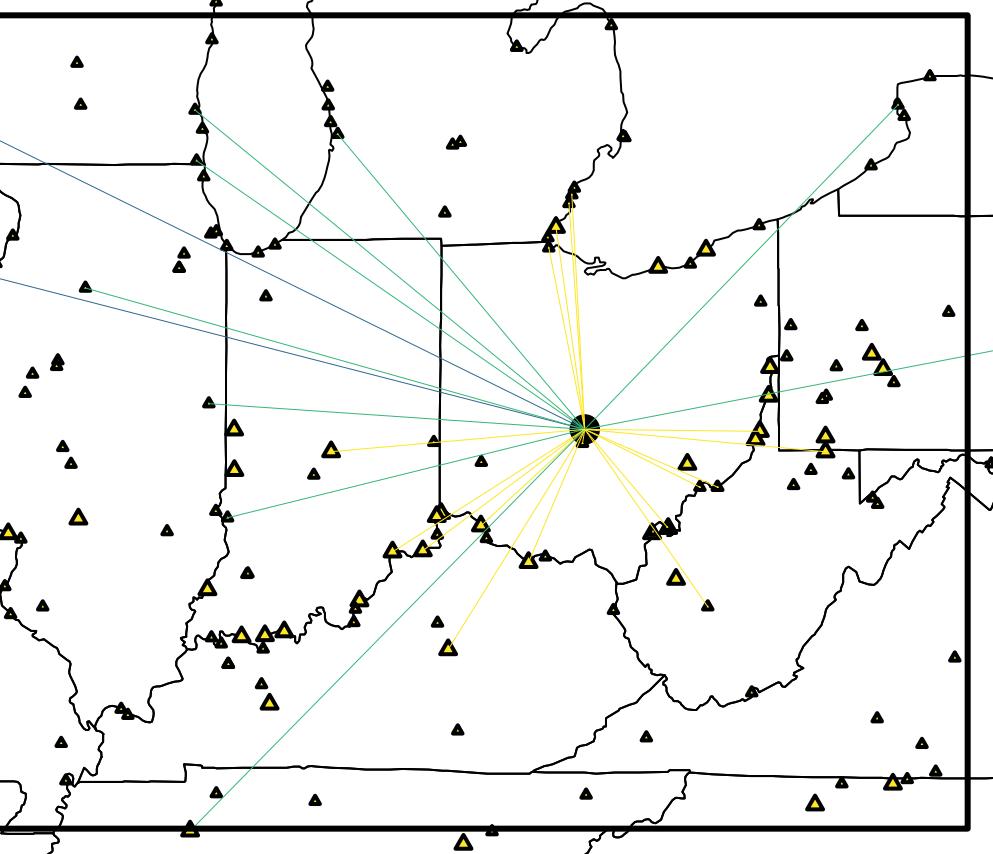
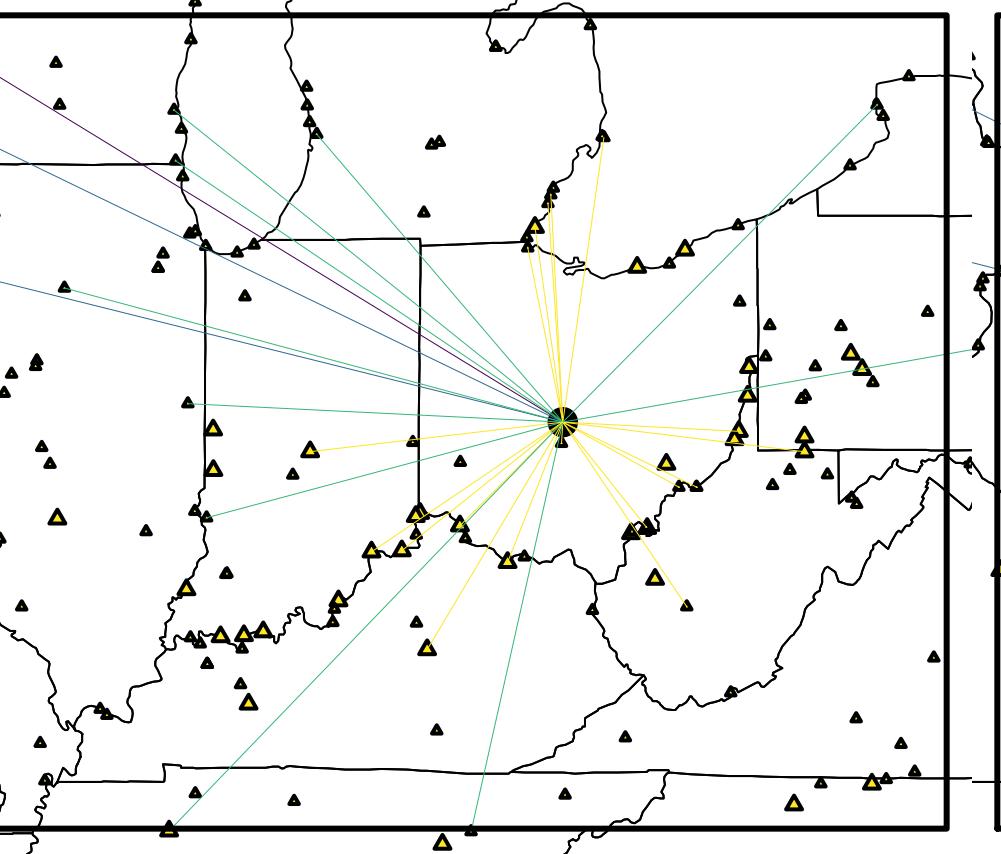
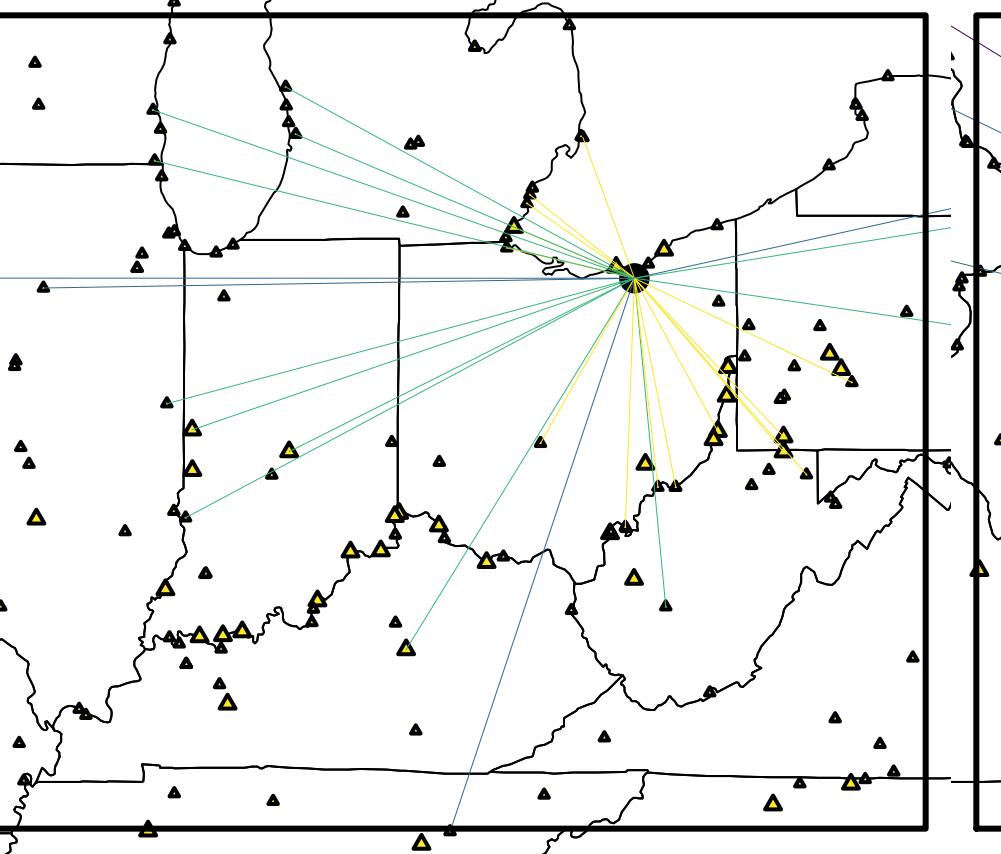
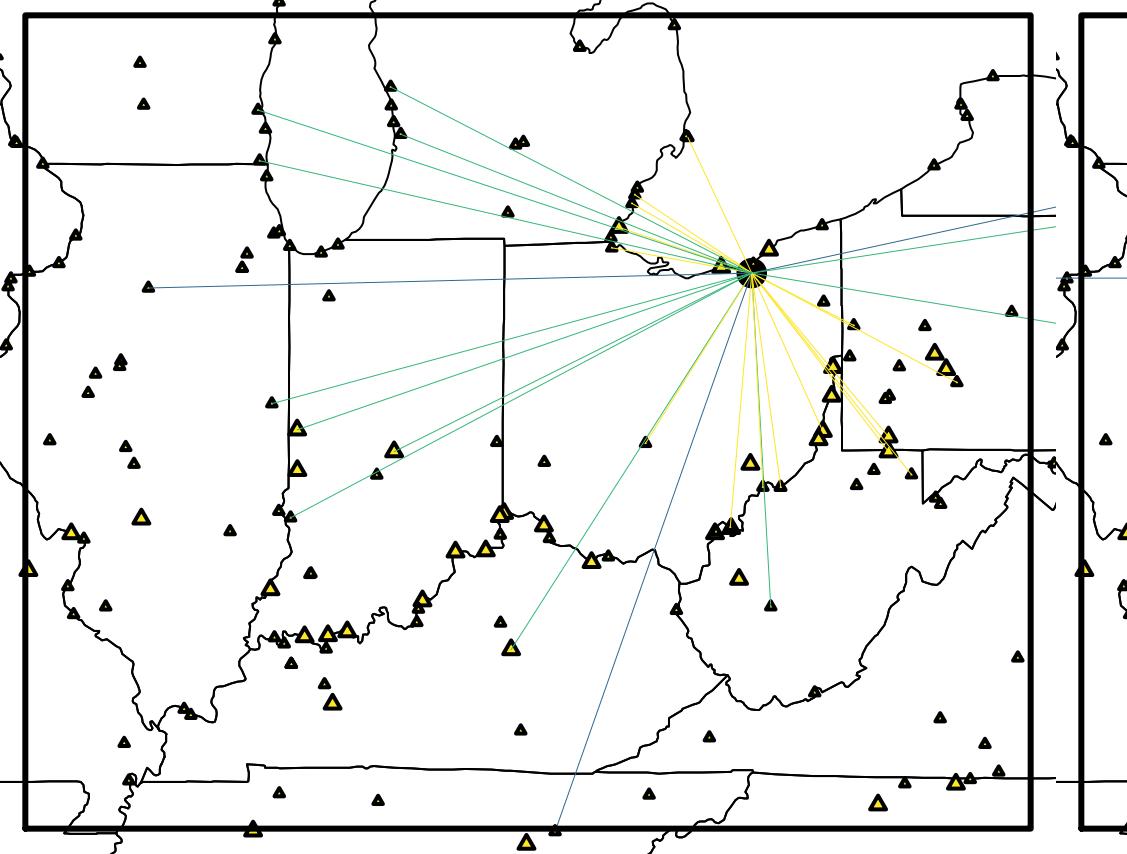
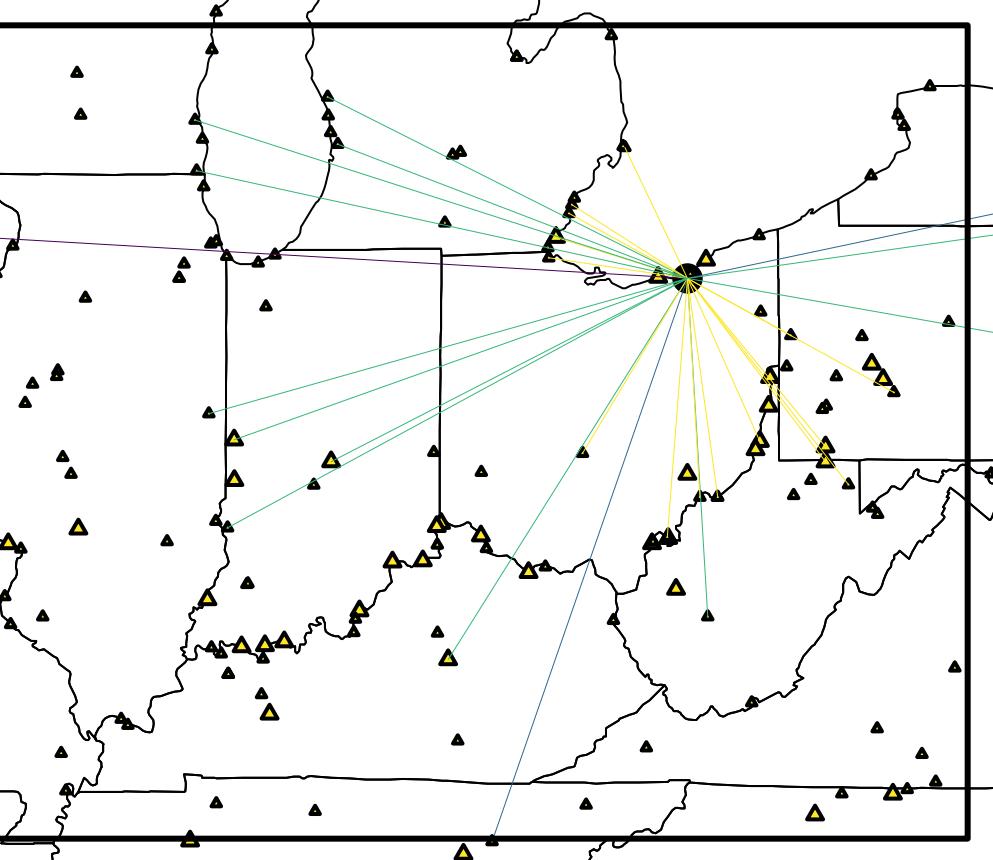
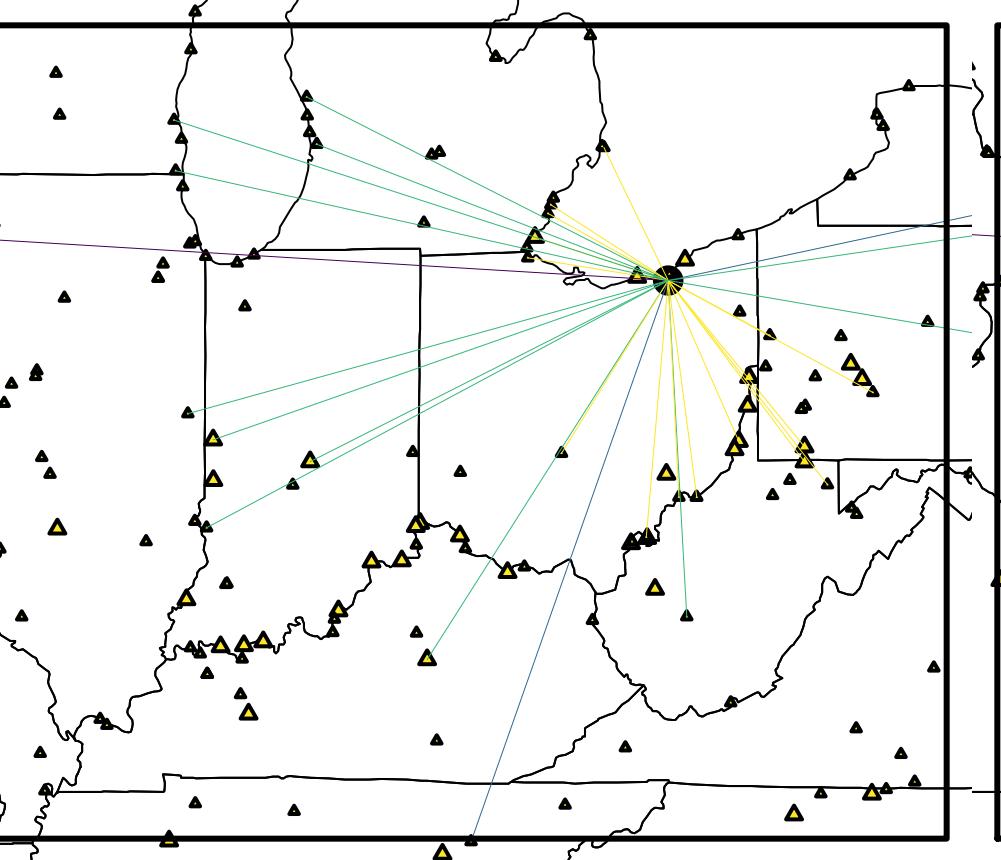
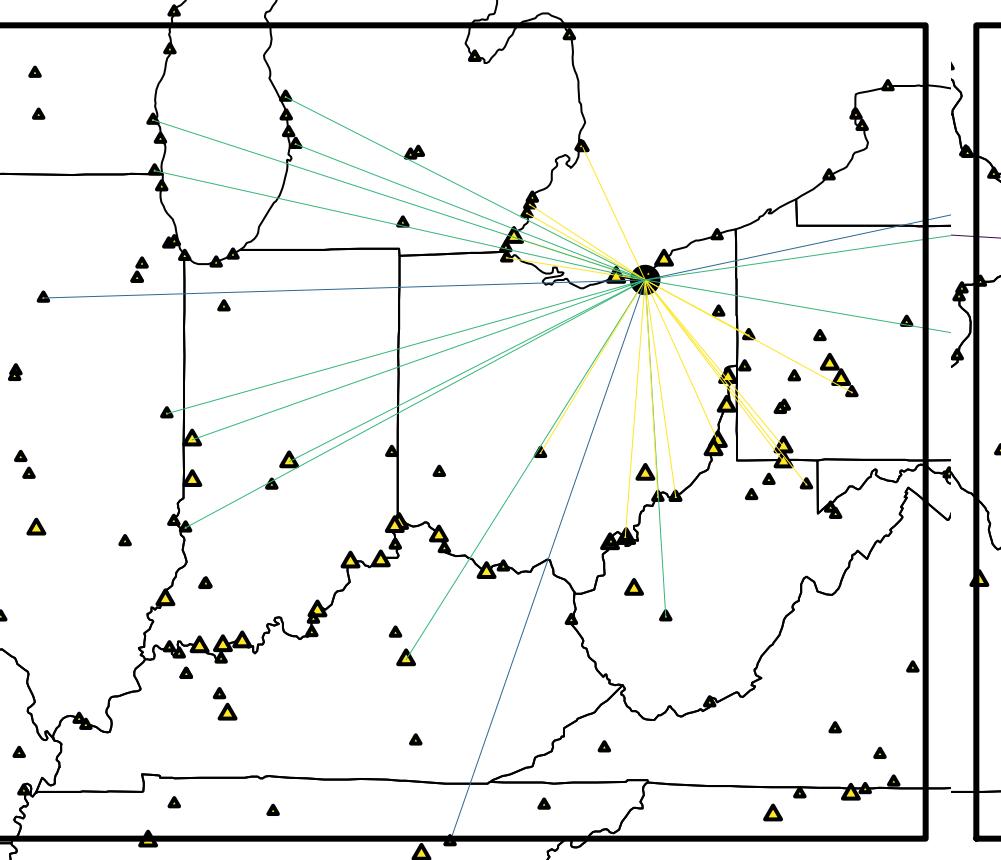
Lag 2 edges

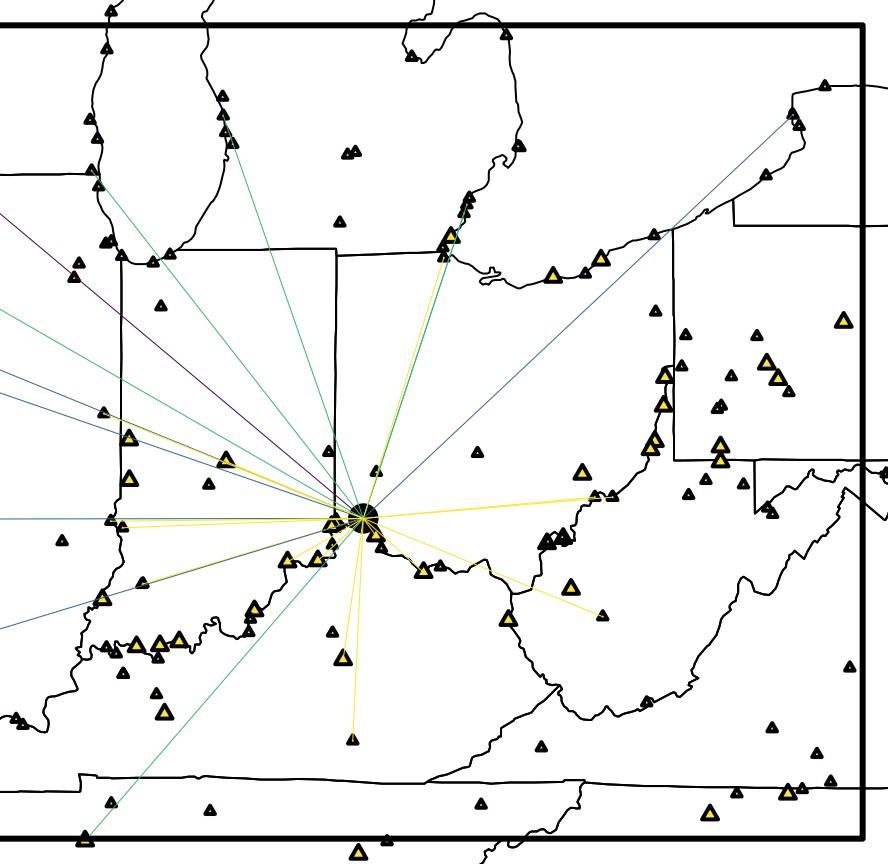
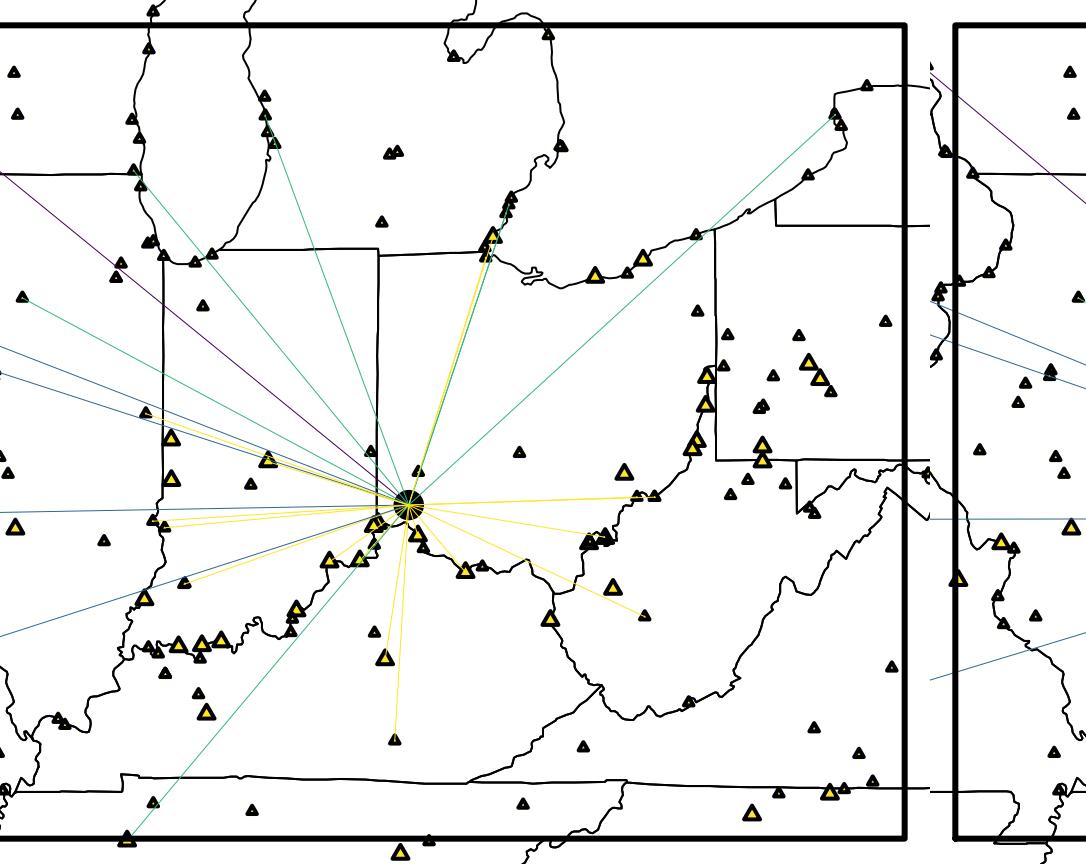
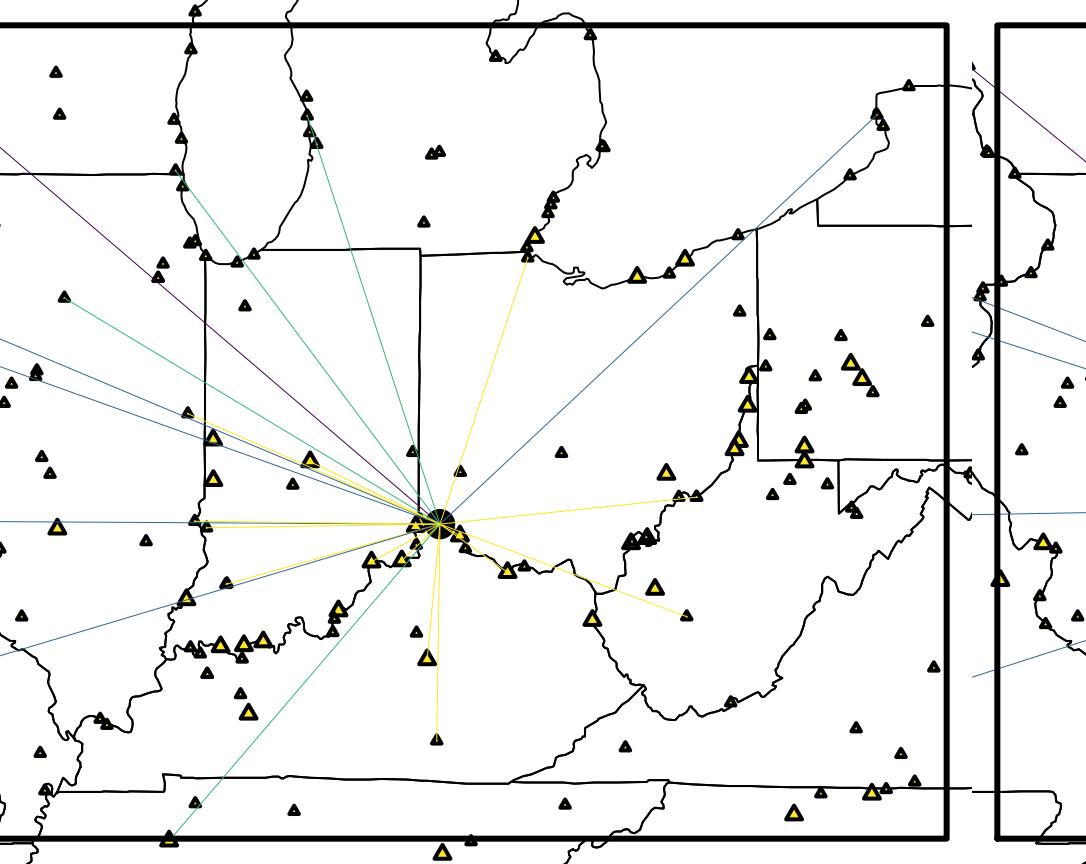
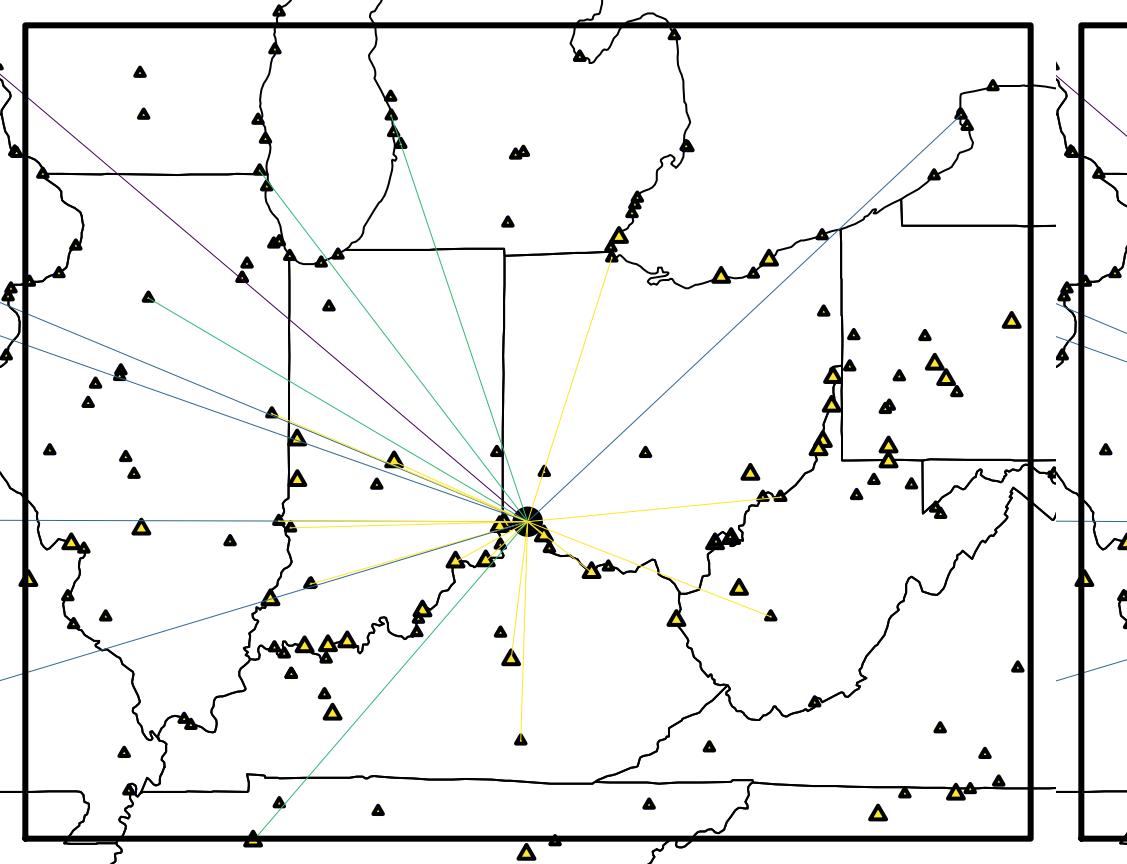
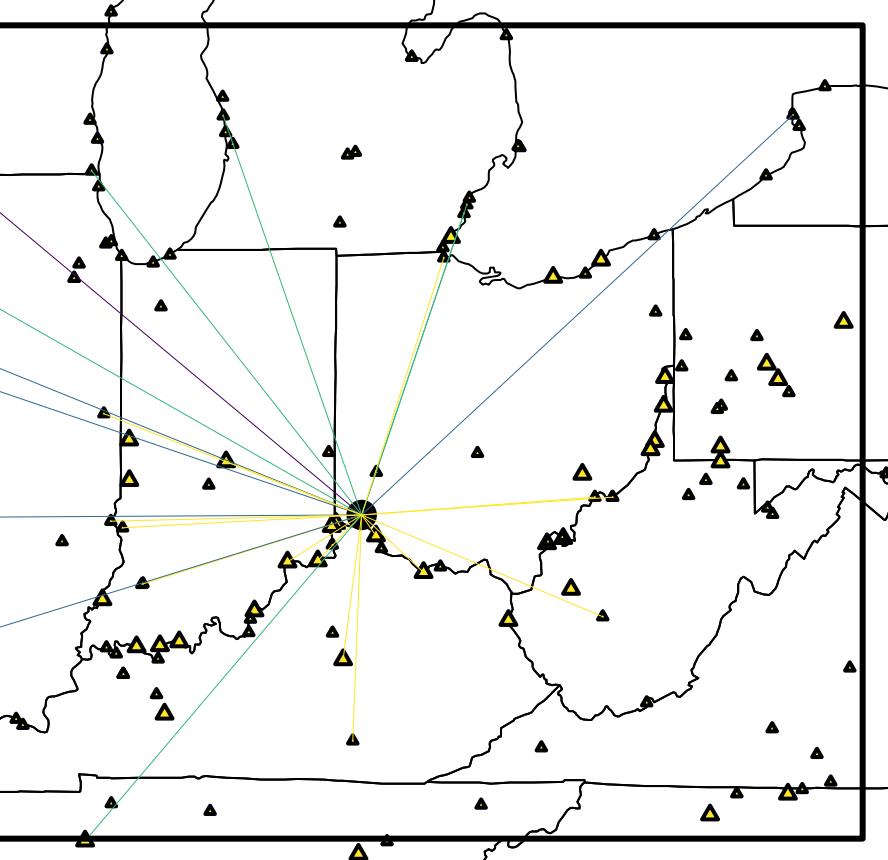
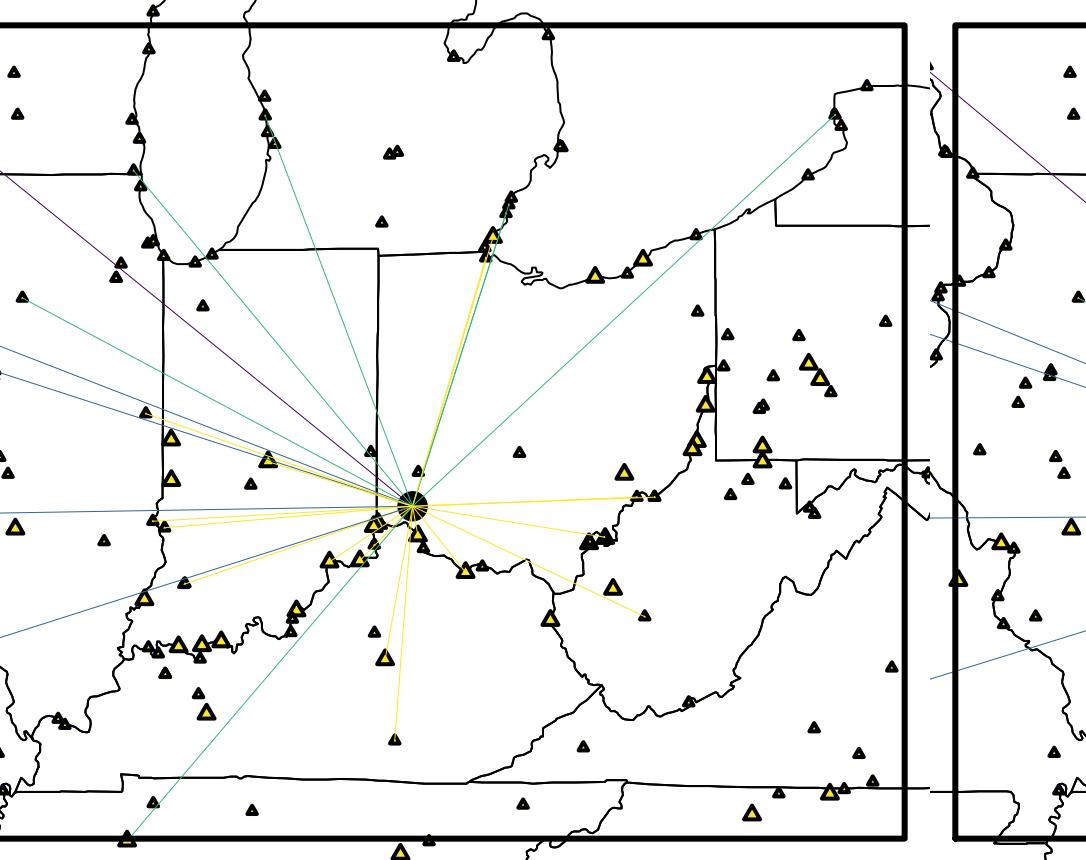
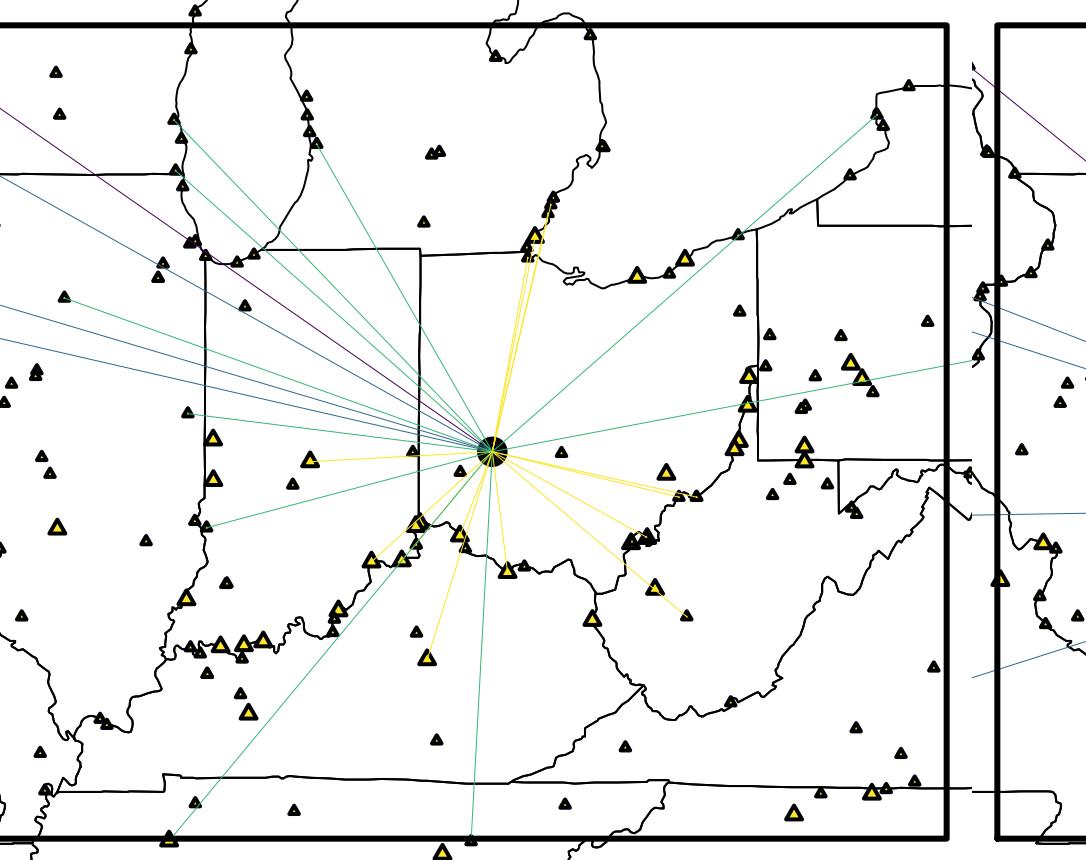
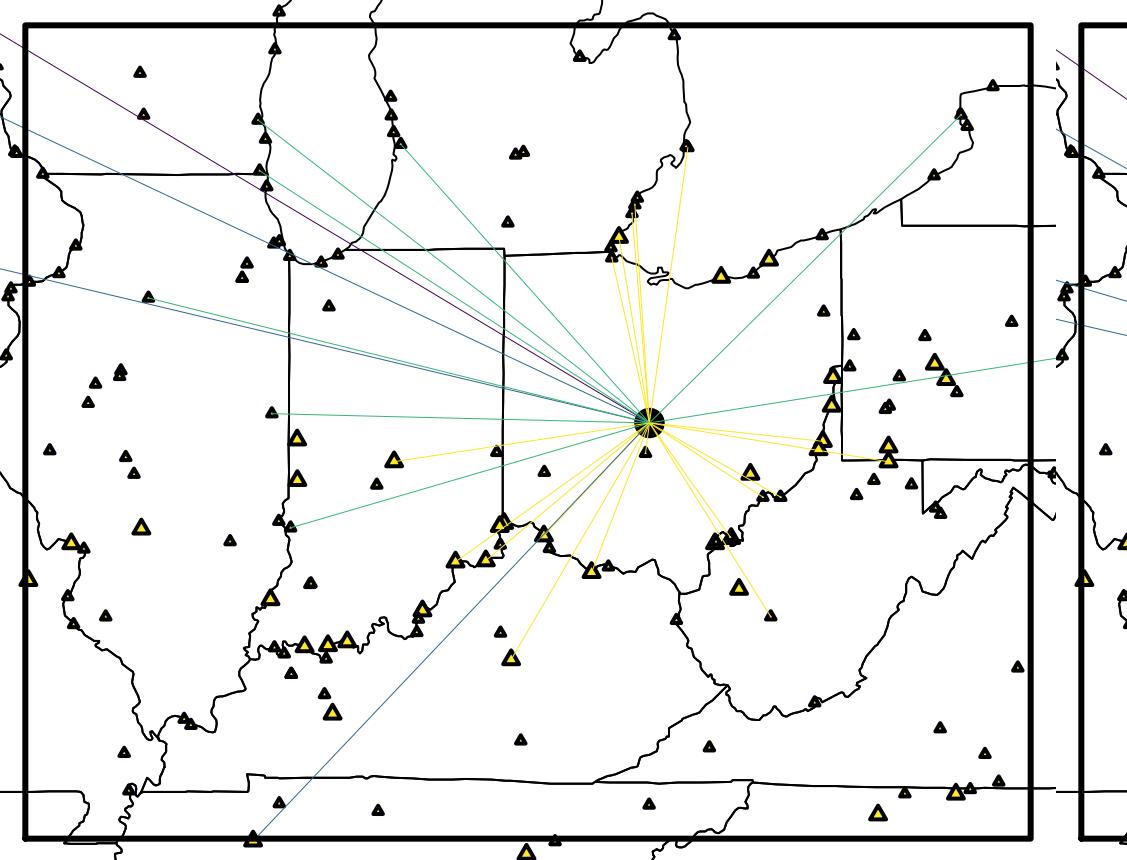


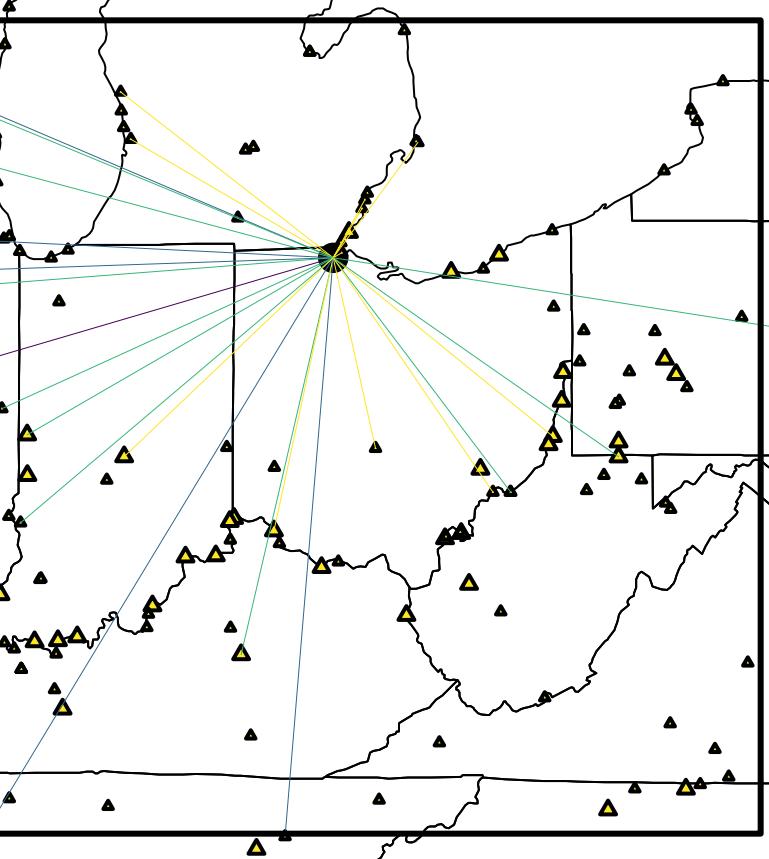
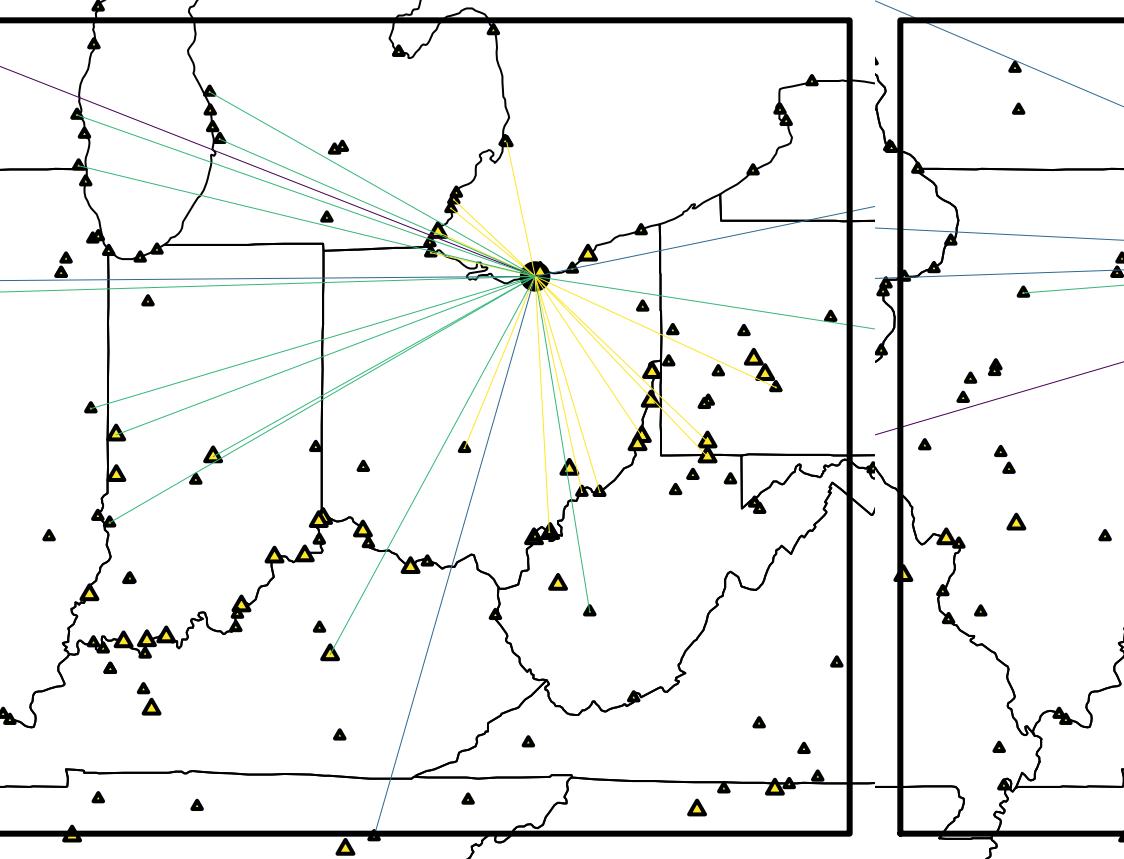
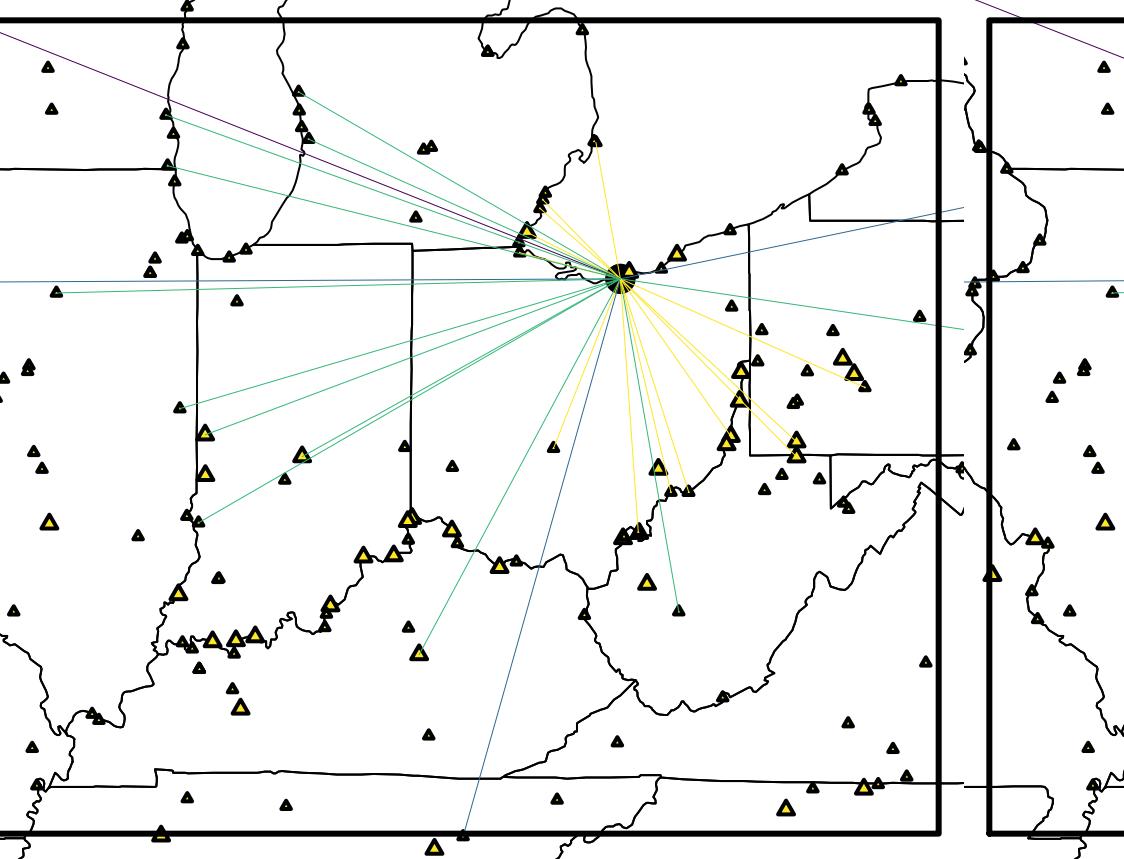
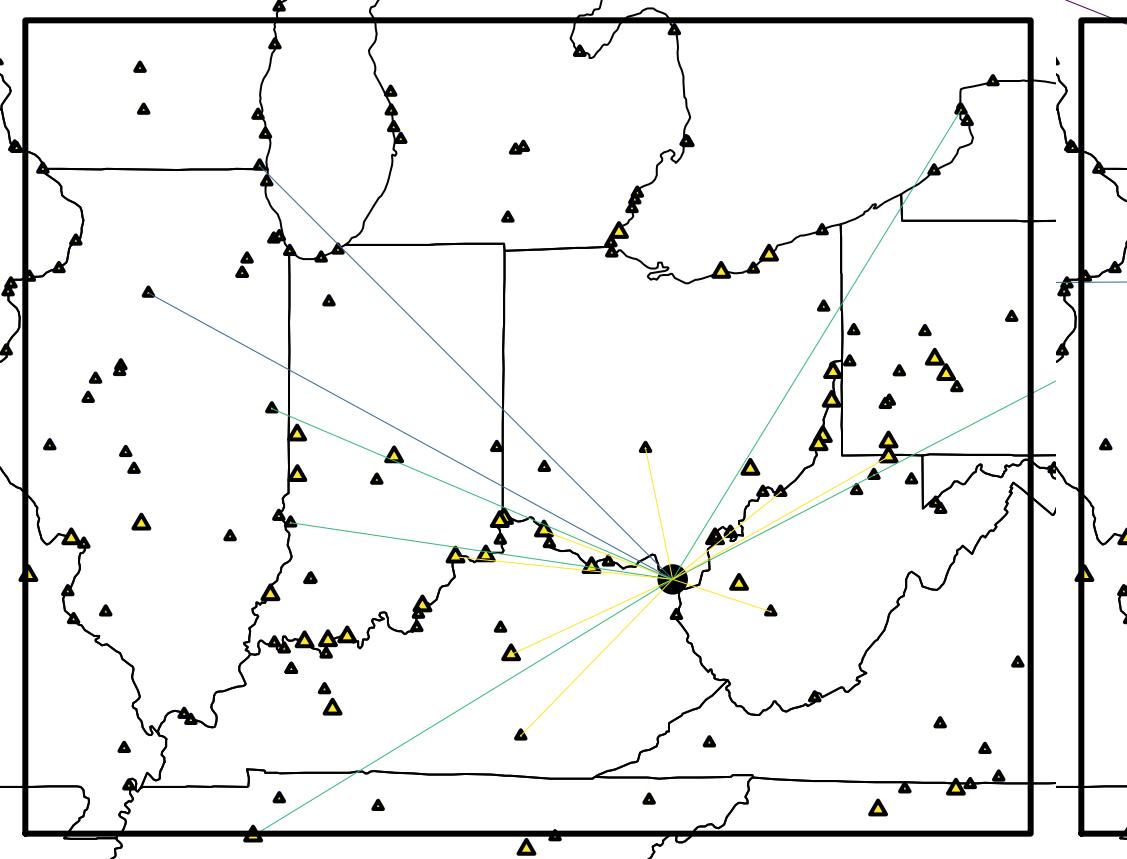
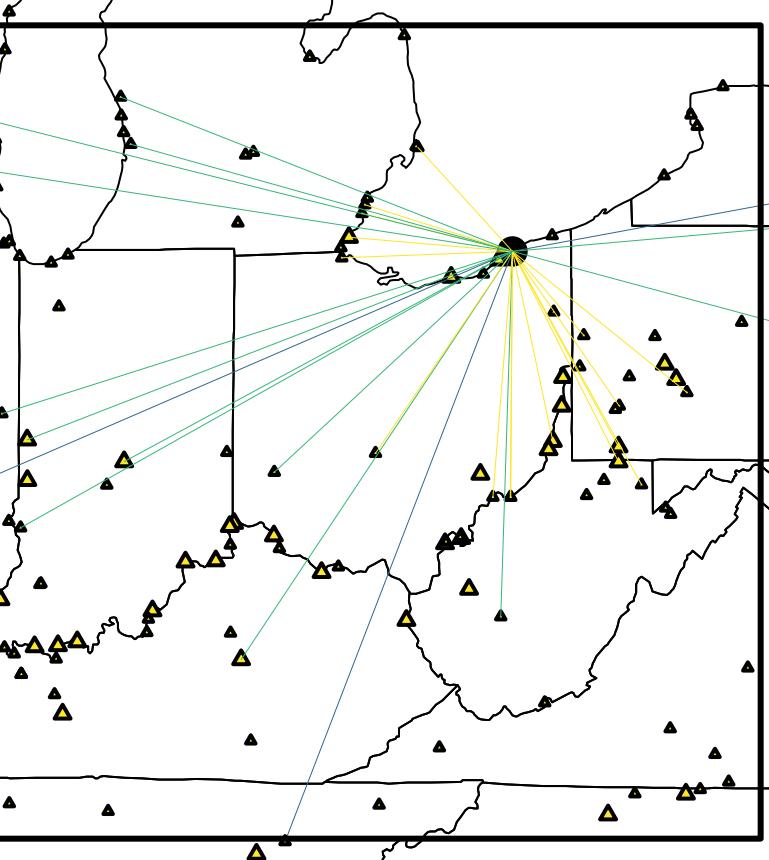
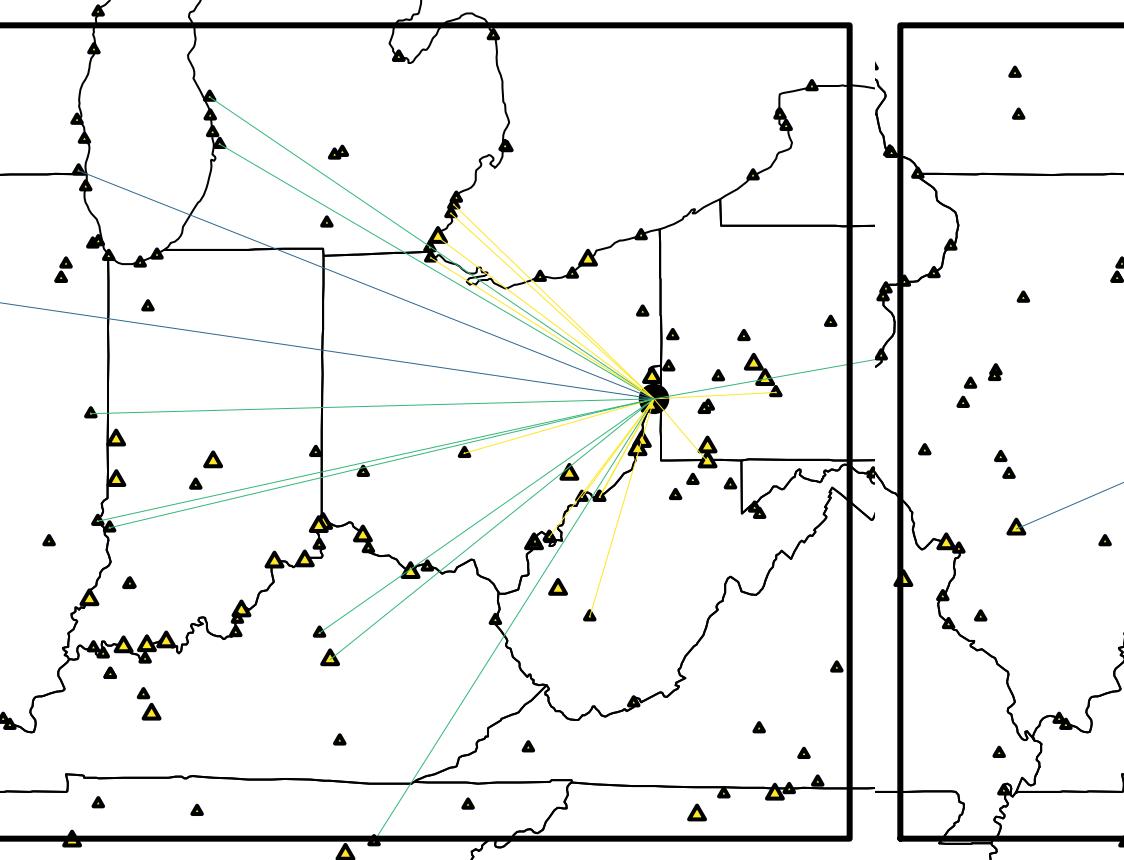
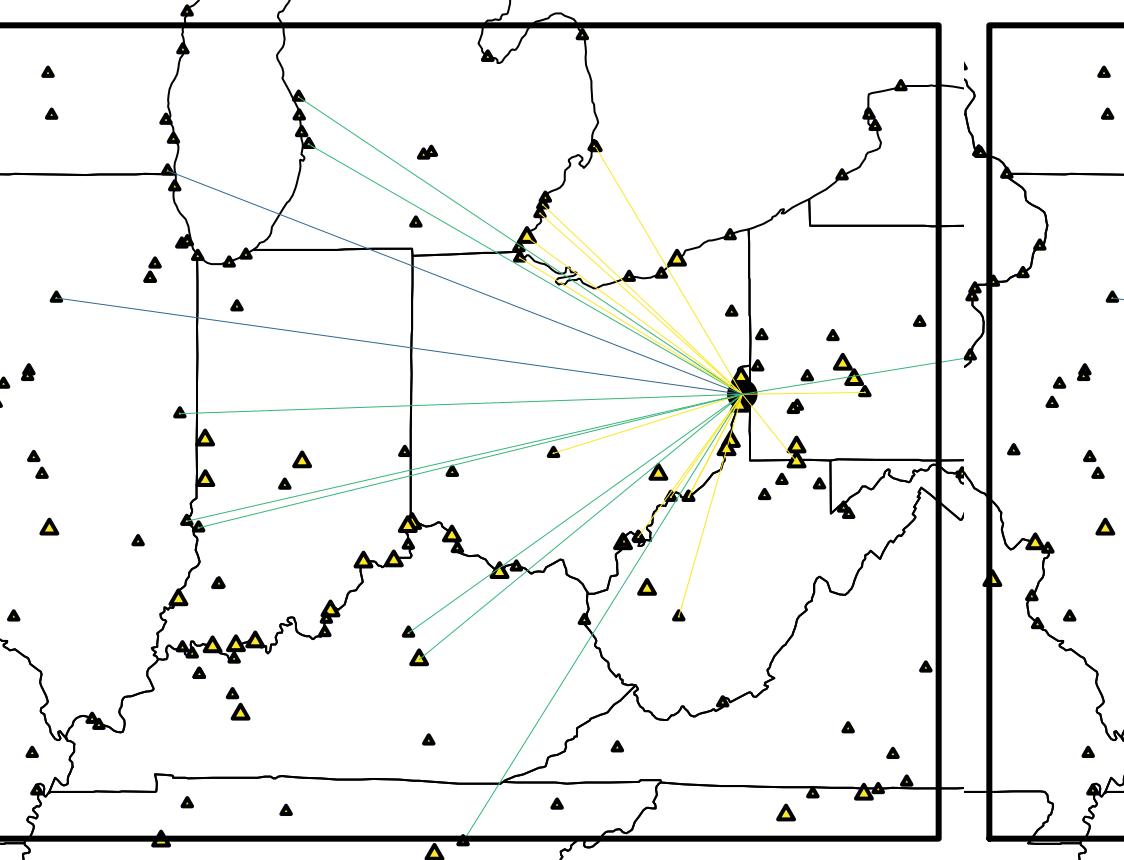
Lag 3 edges

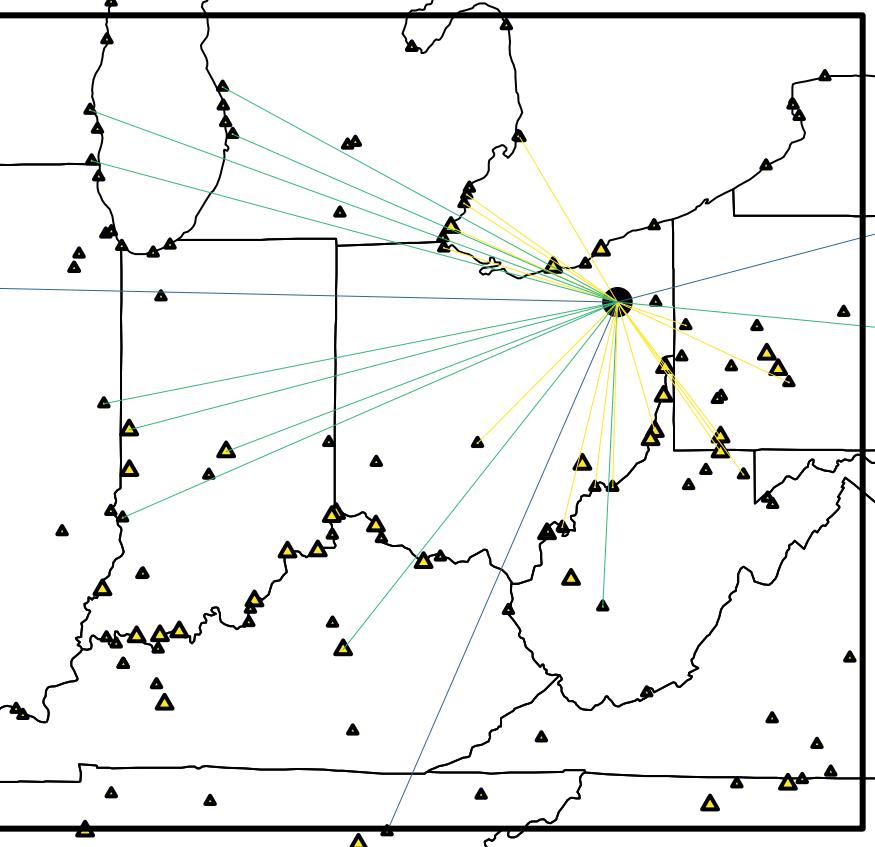
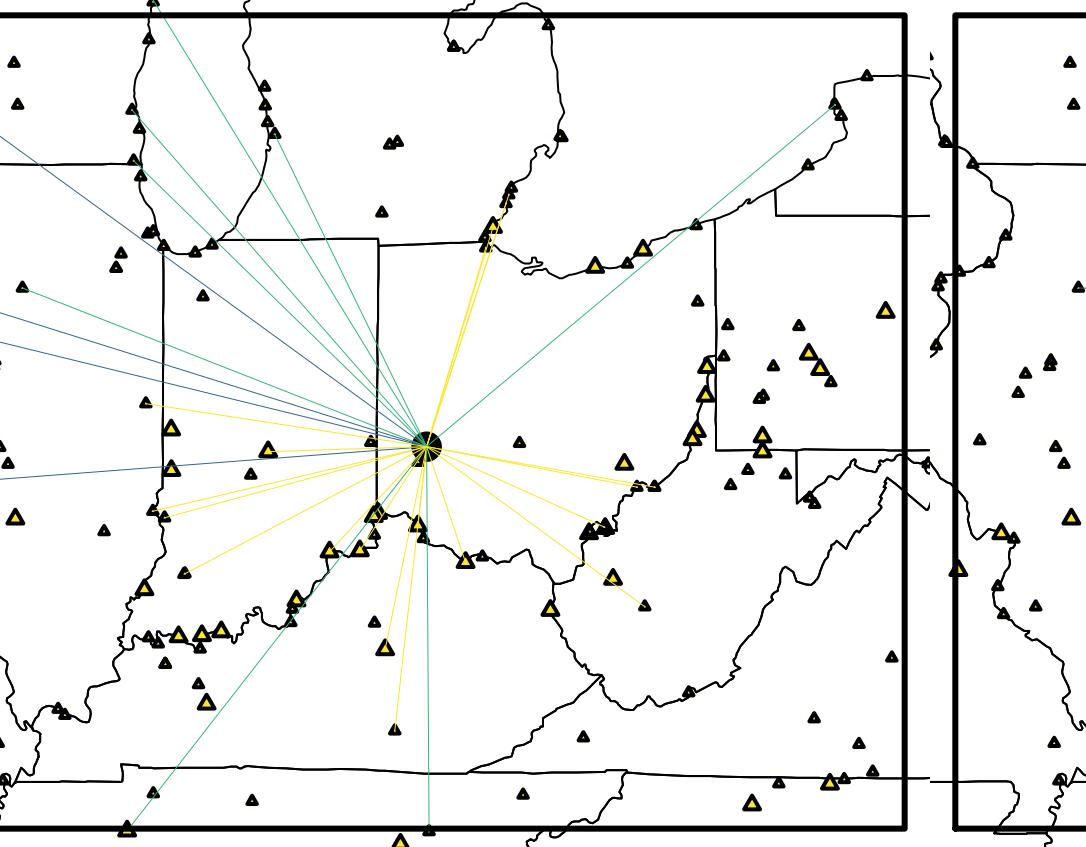
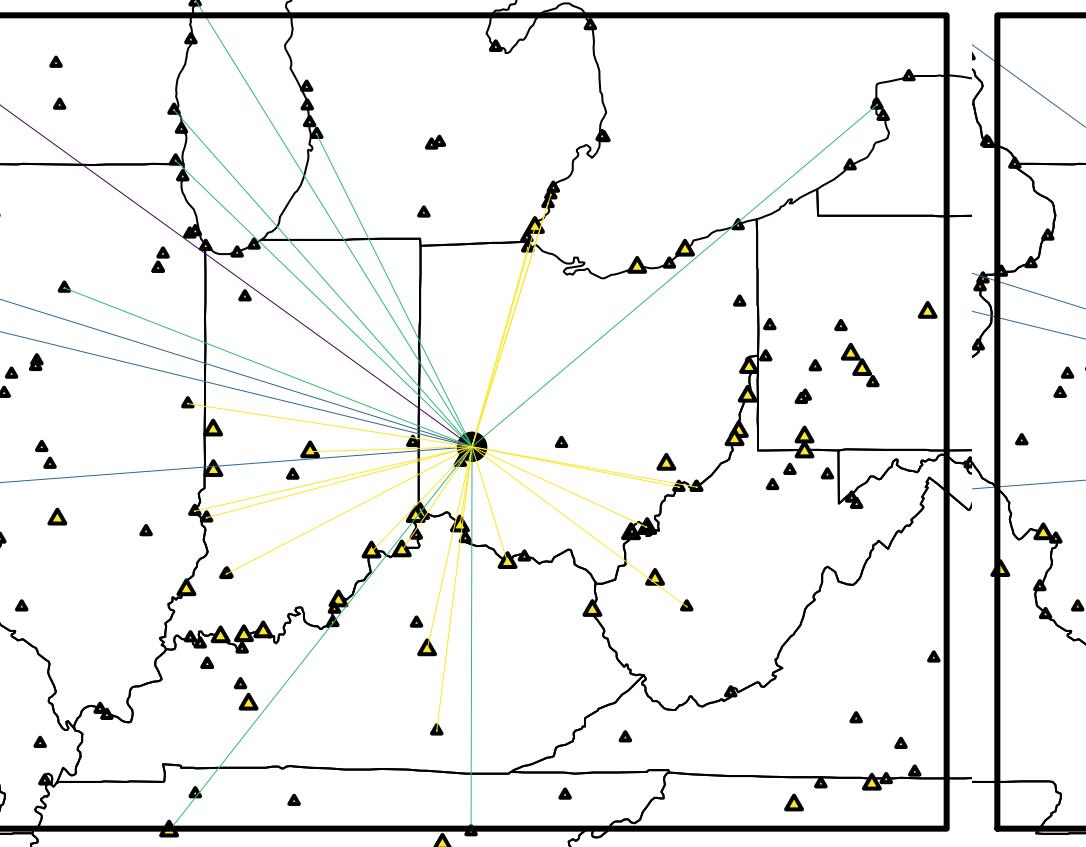
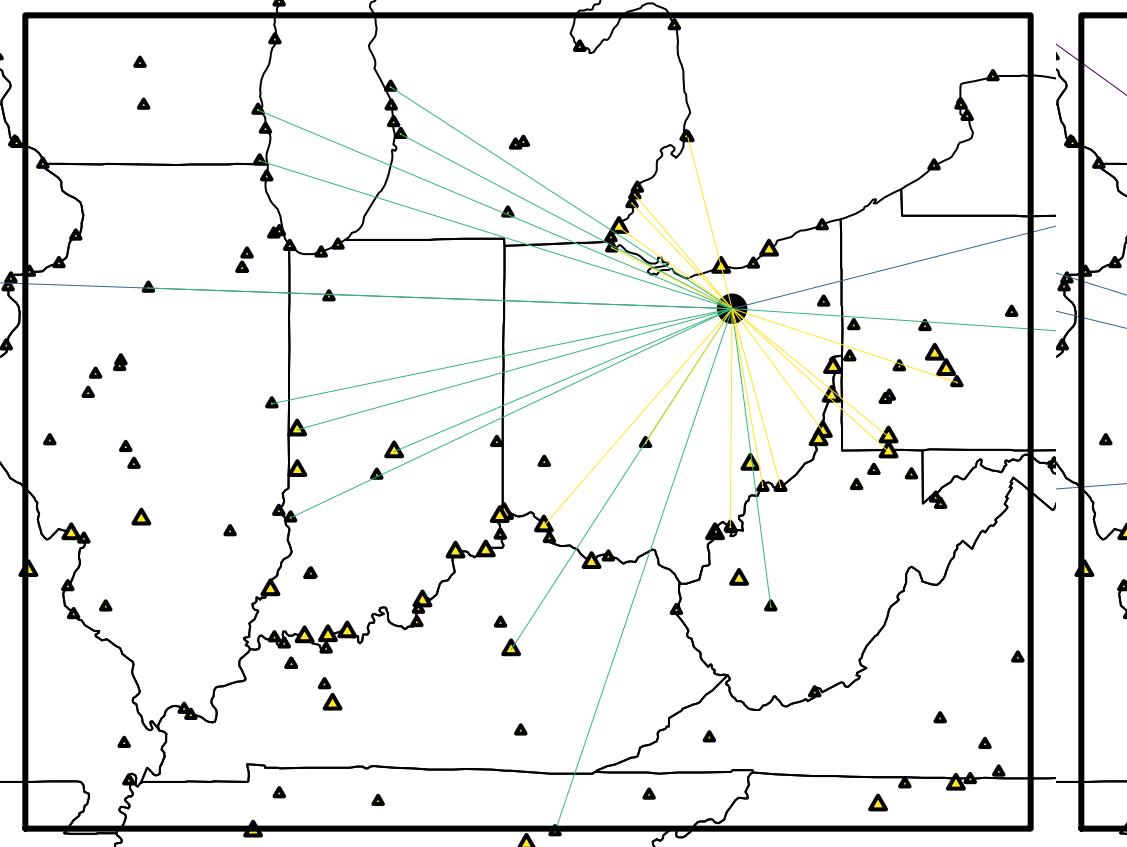
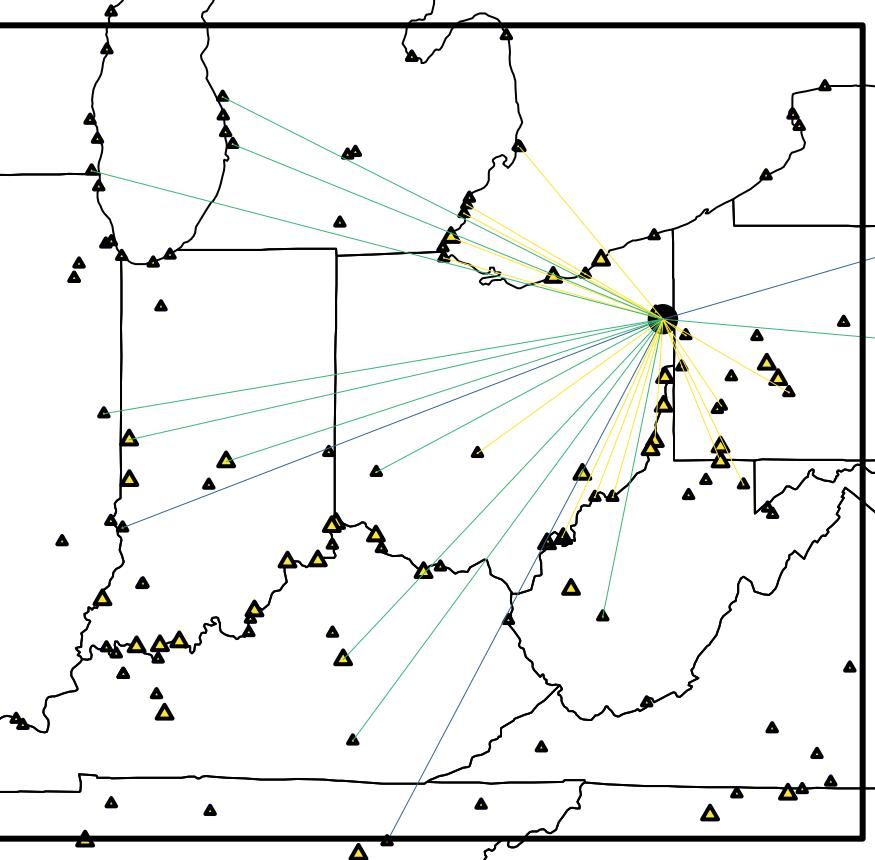
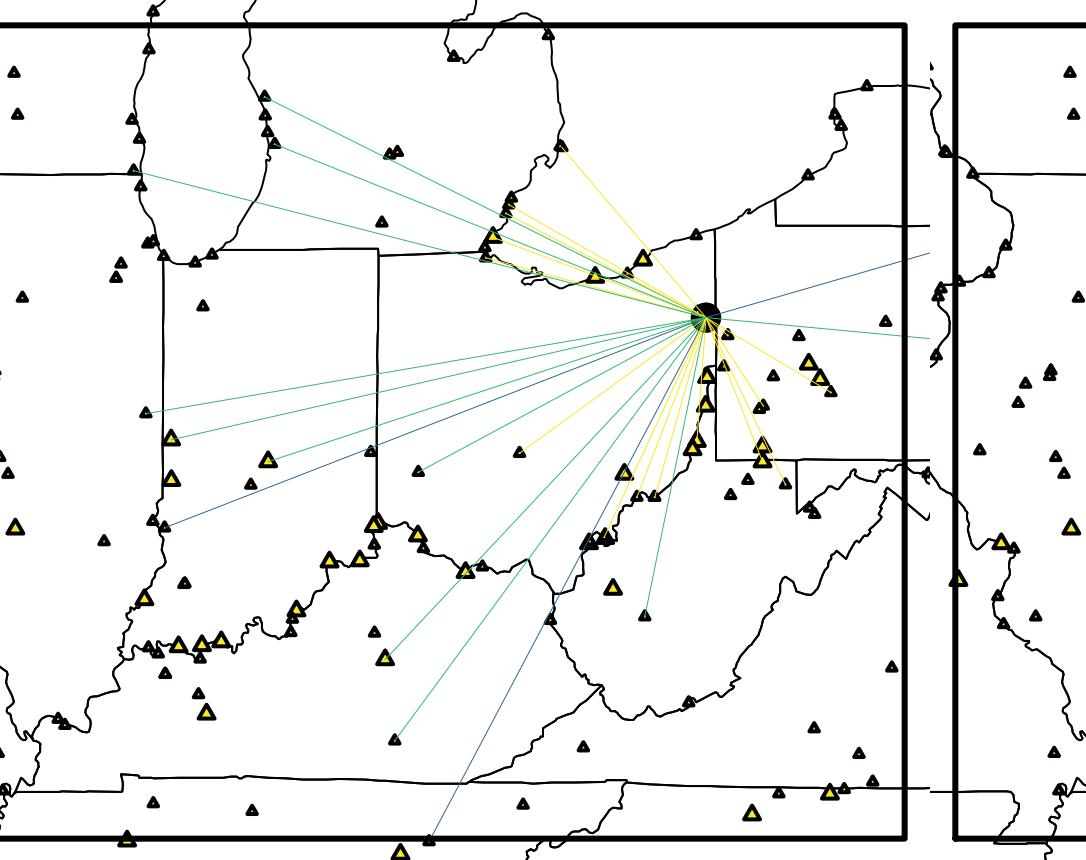
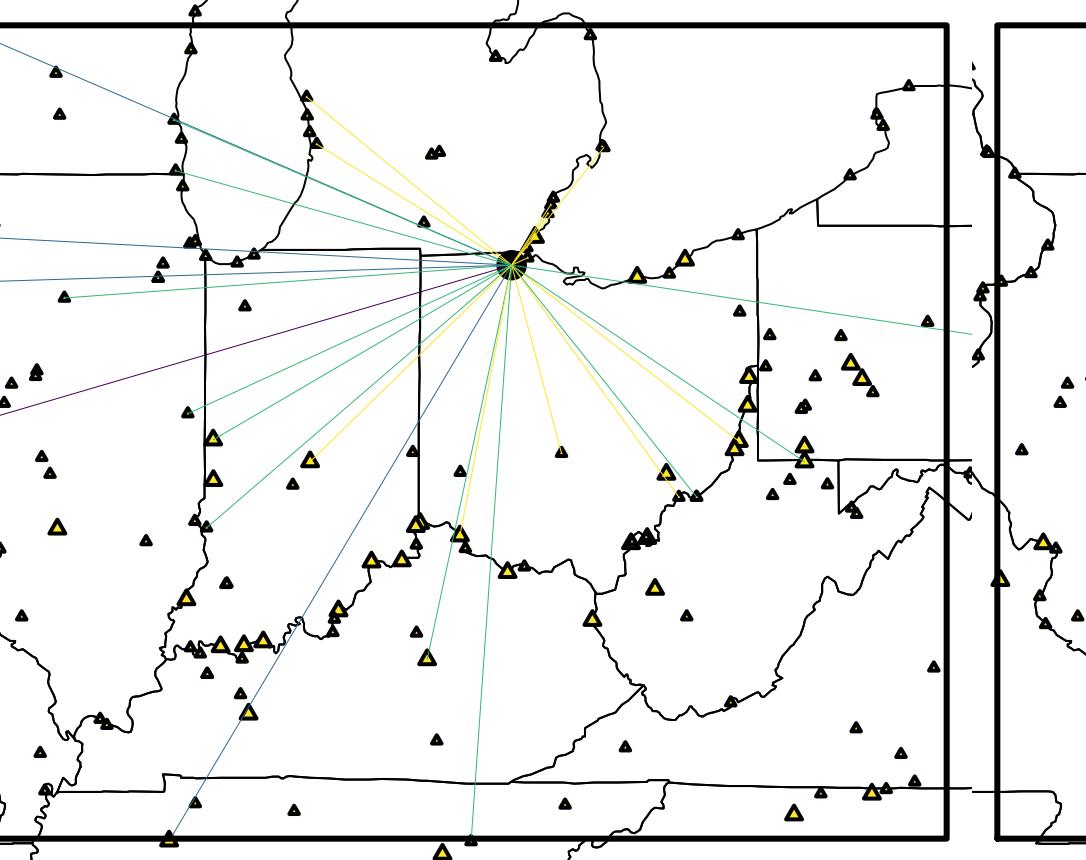


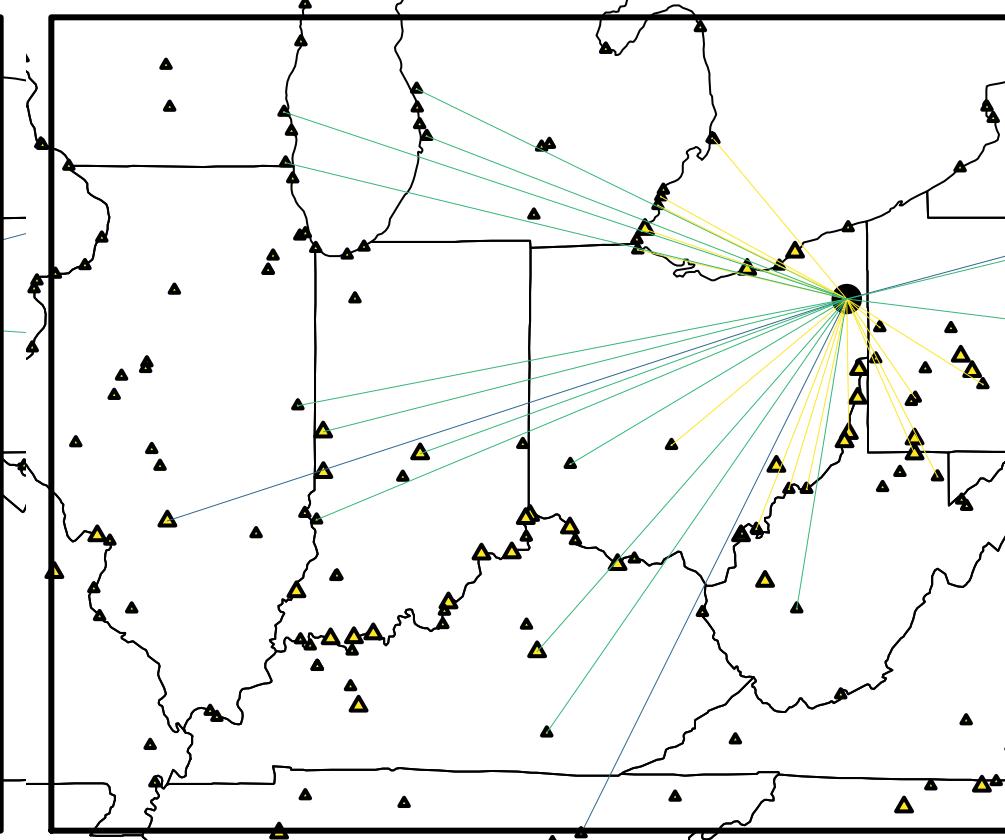
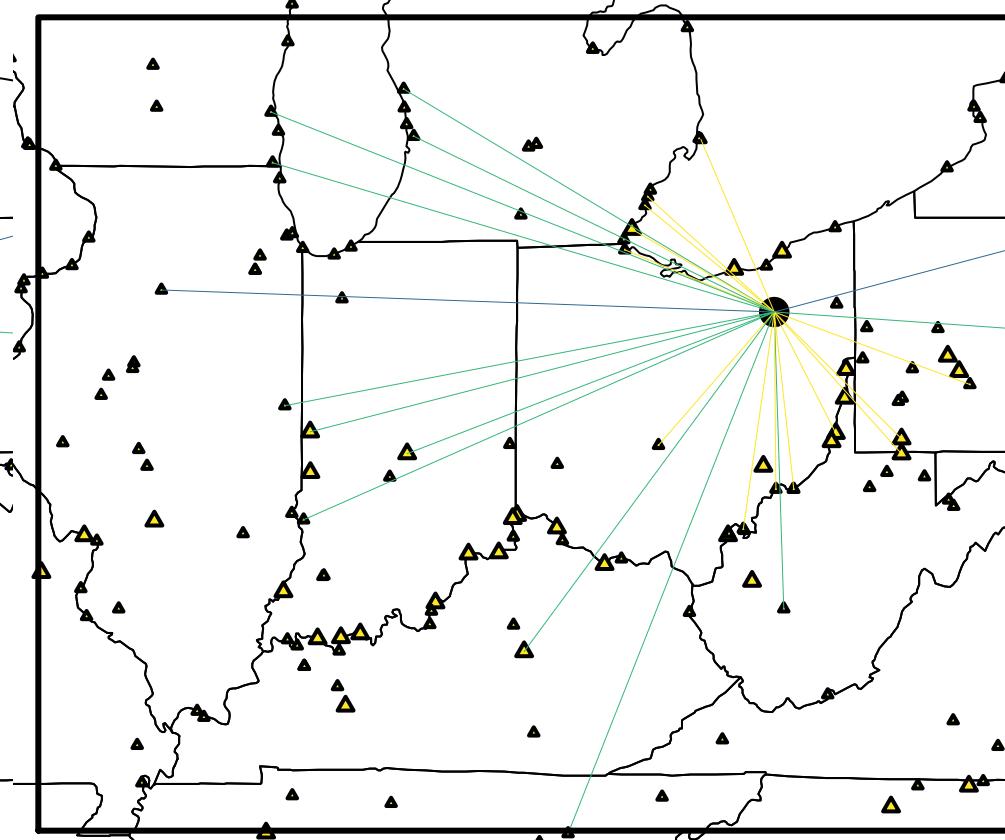
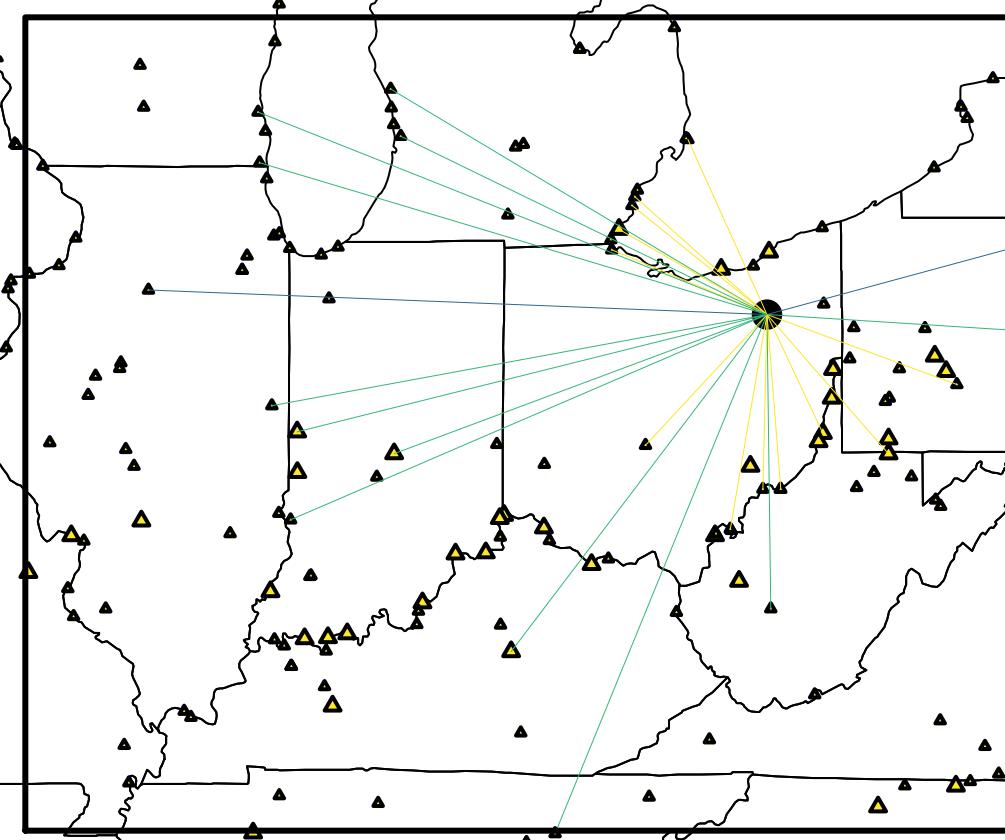
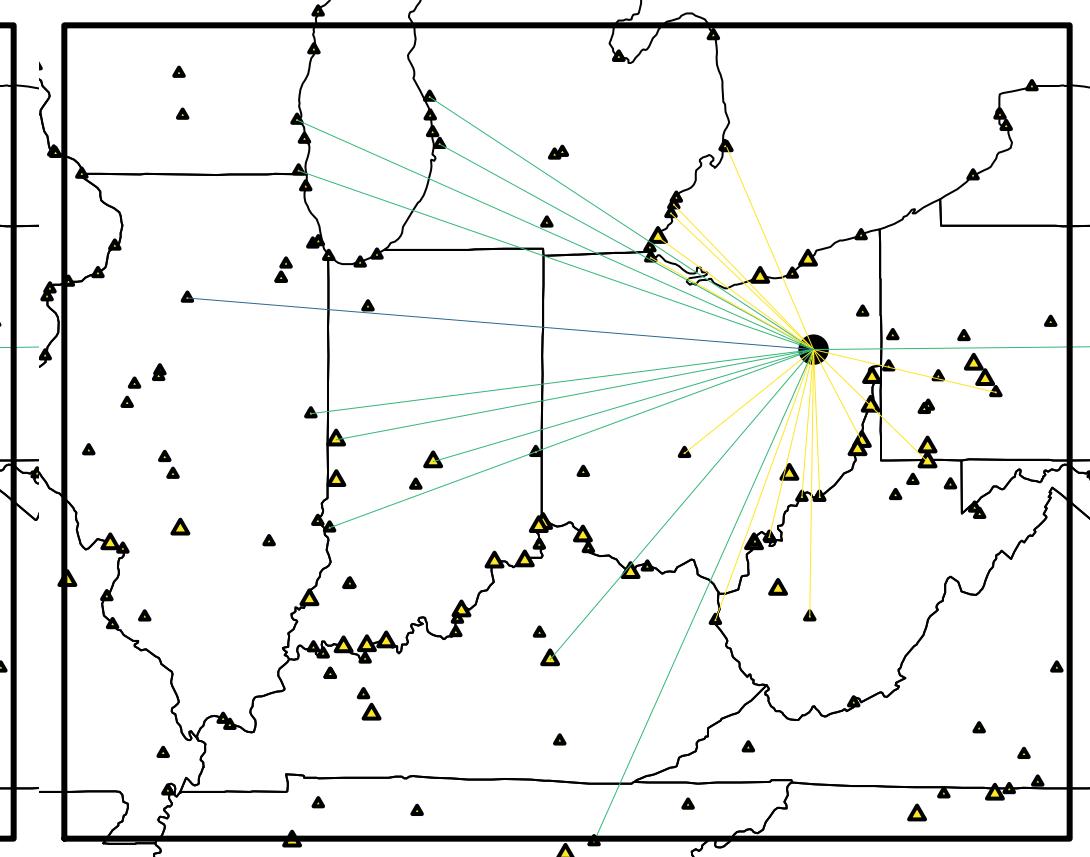
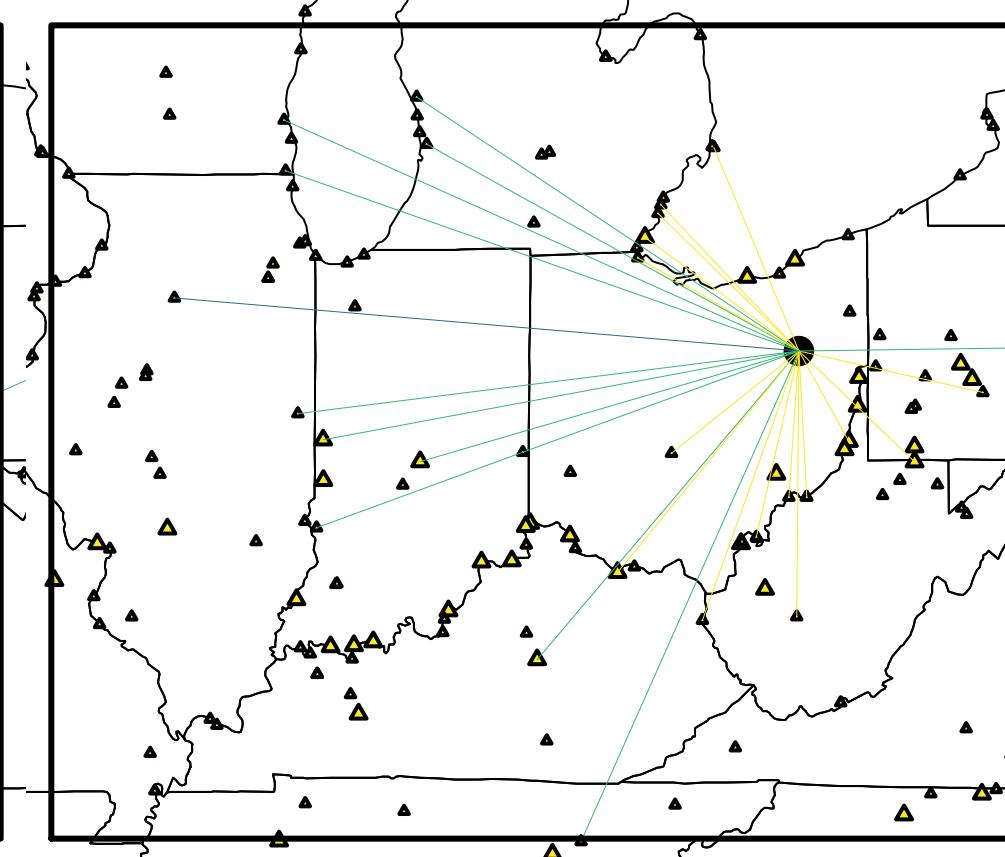
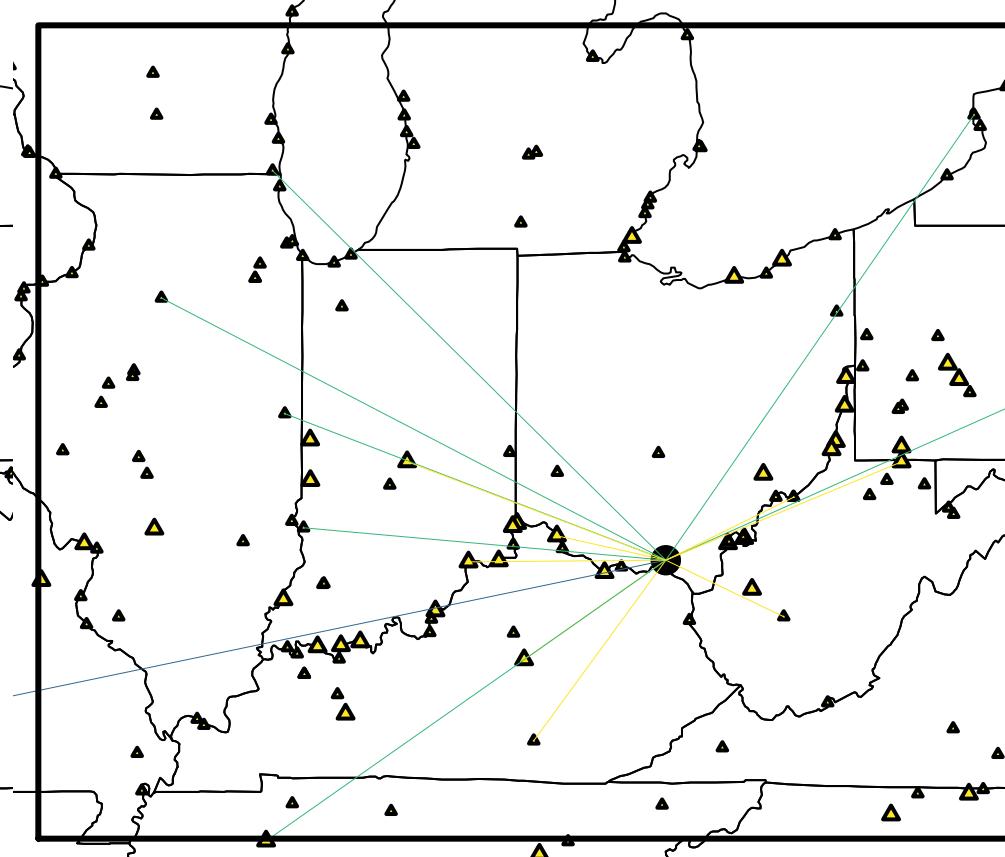
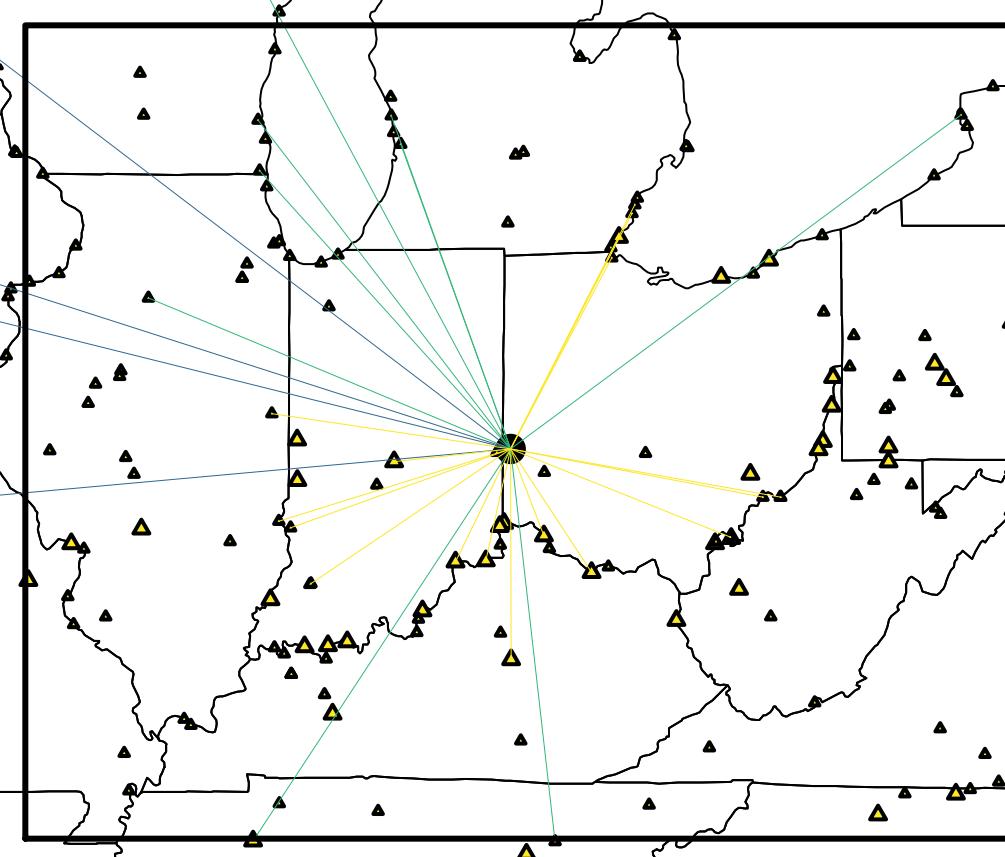


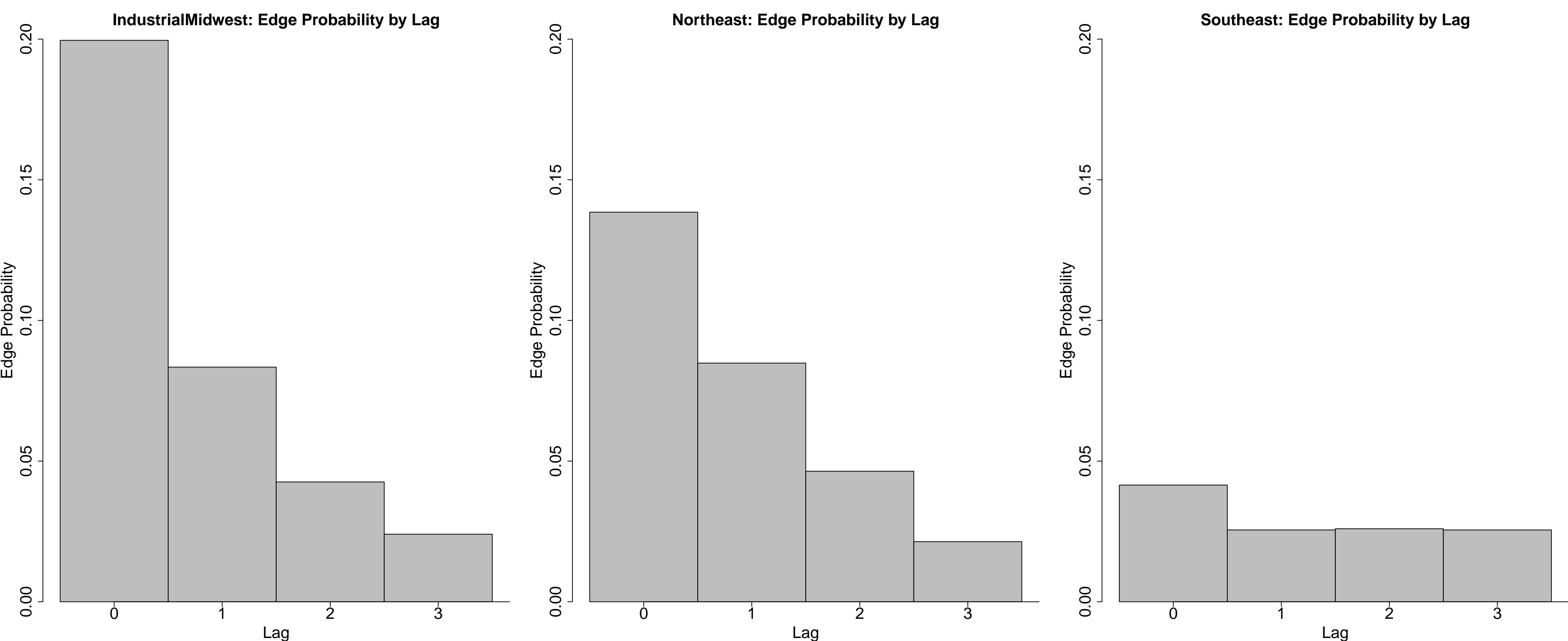




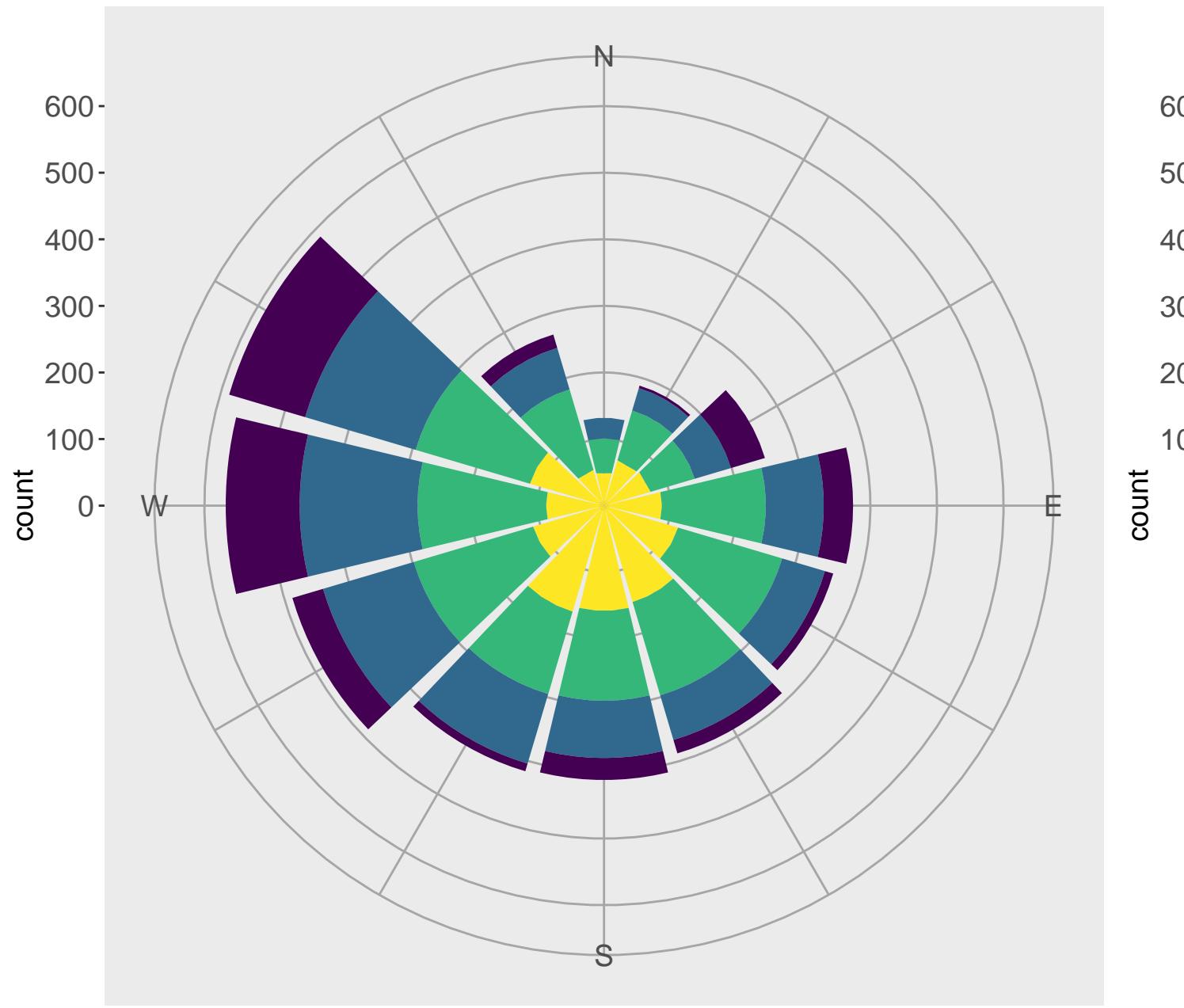




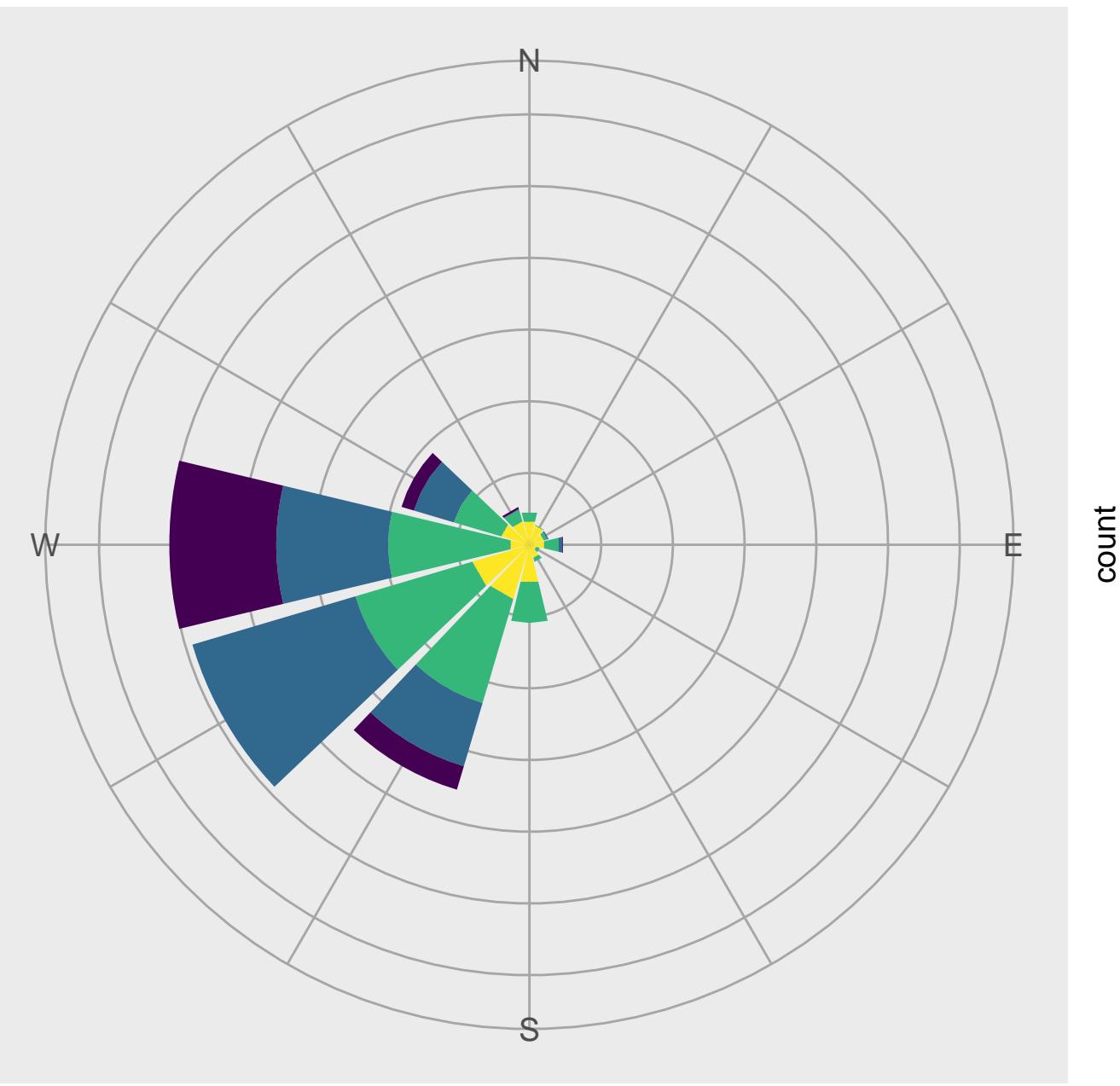




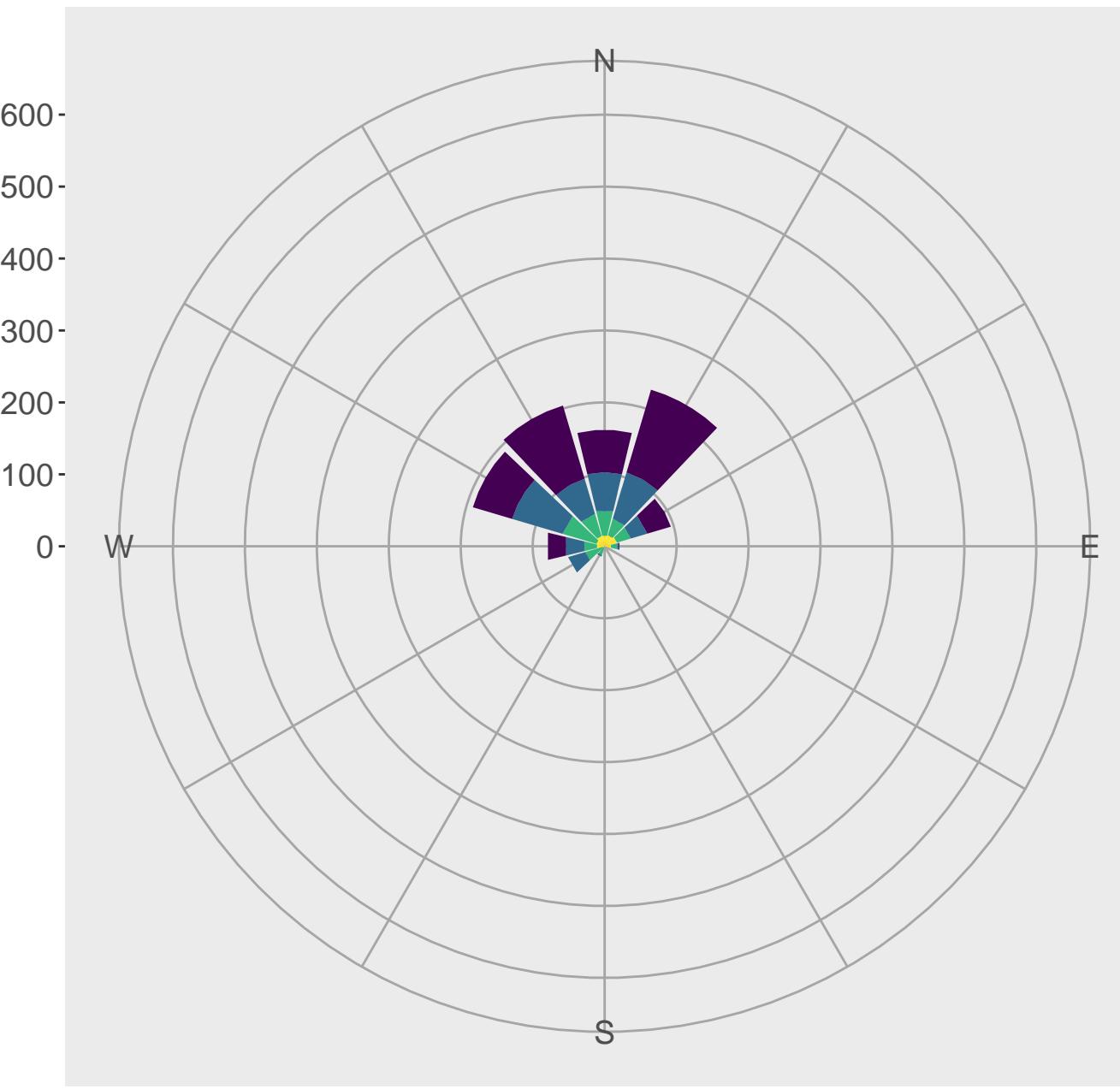
**Edge counts by distance/direction to source
IndustrialMidwest receptors**



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



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



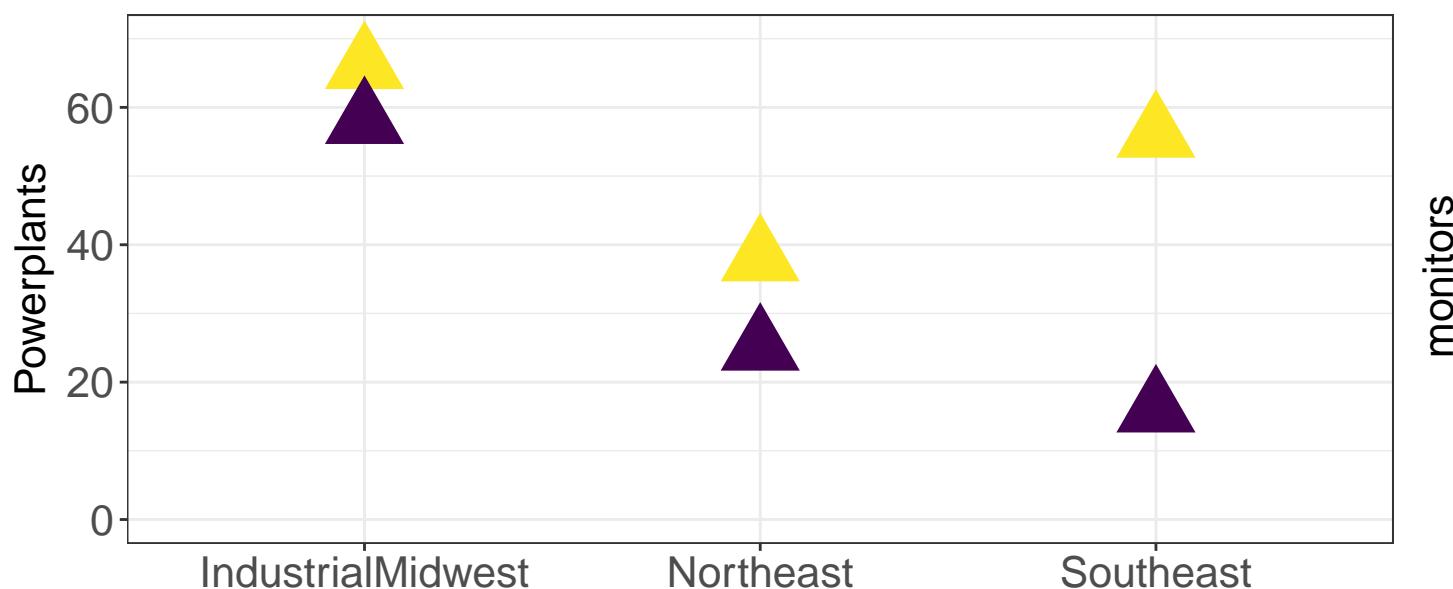
Distance to Source (km) 750–1000 500–750 250–500 0–250

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

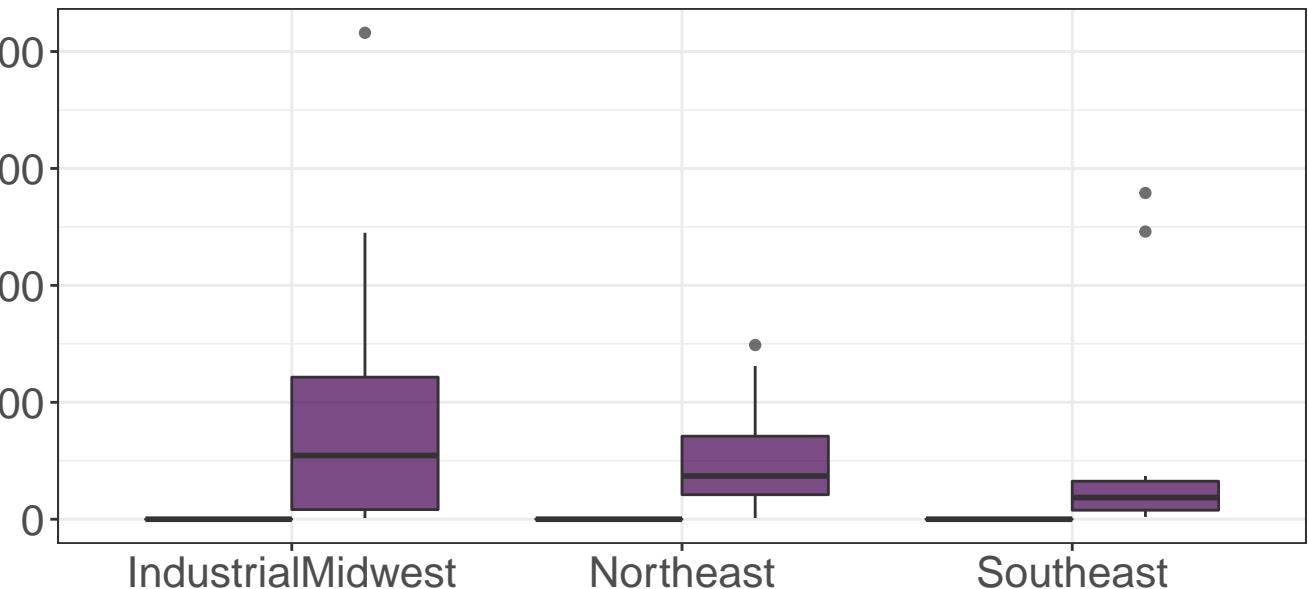
Distance to Source (km) 750–1000 500–750 250–500 0–250

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

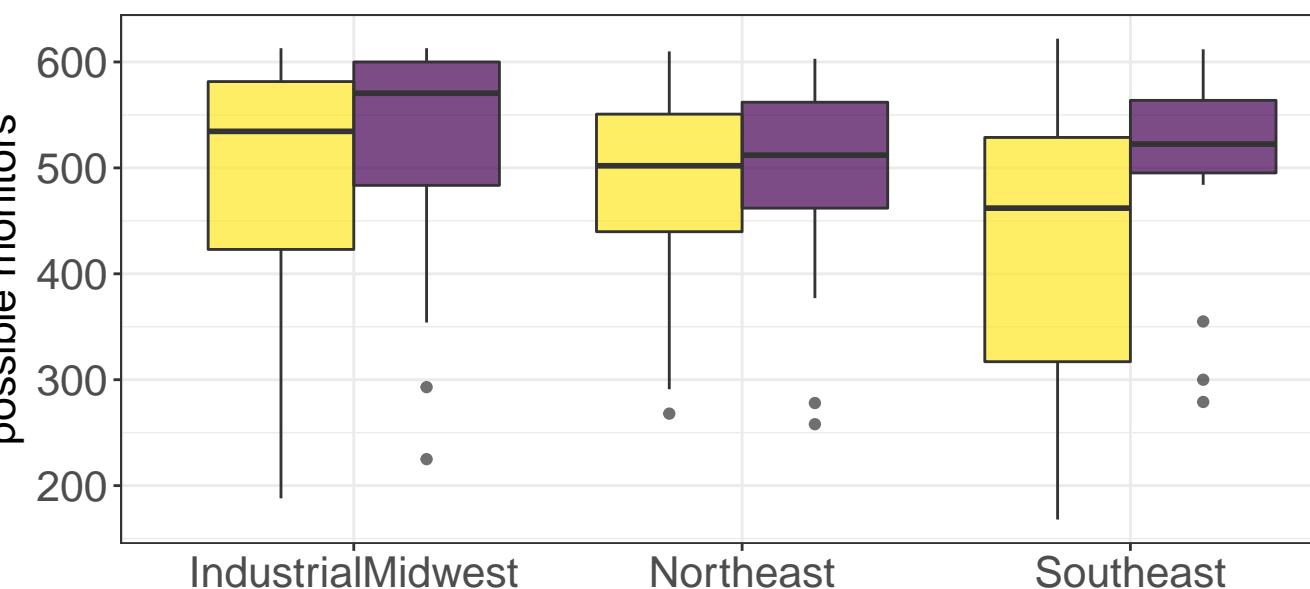
Number of powerplants



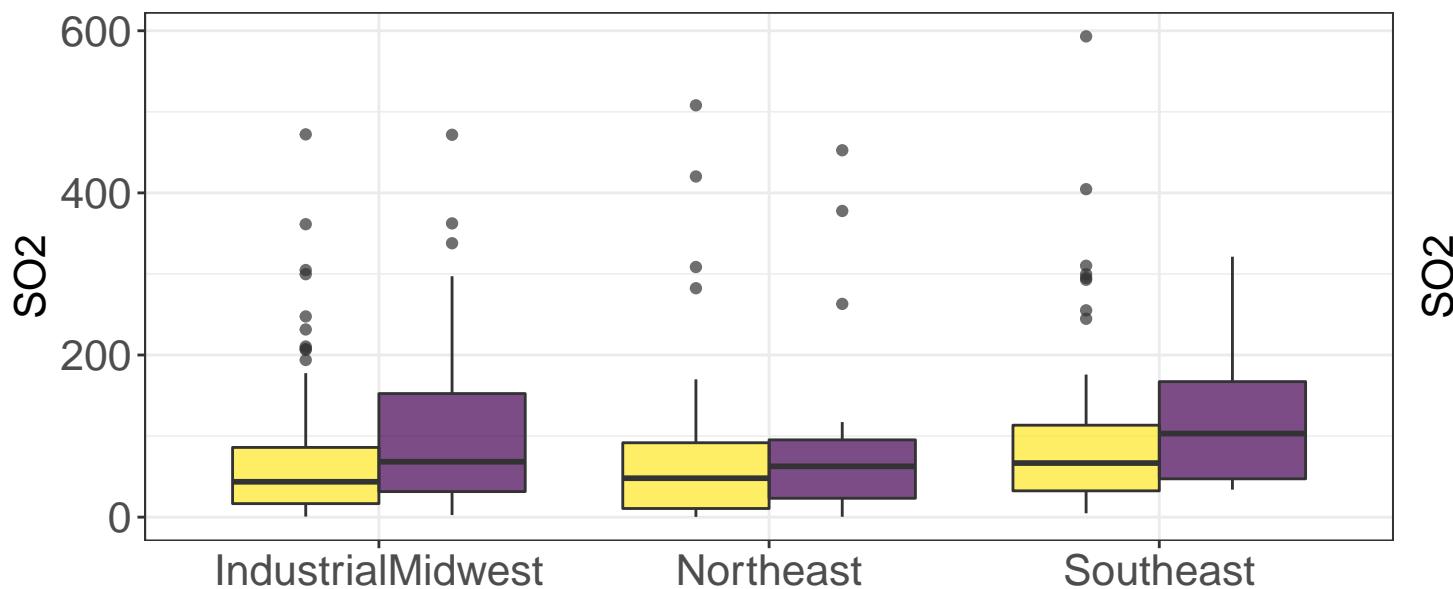
Number of linked monitors



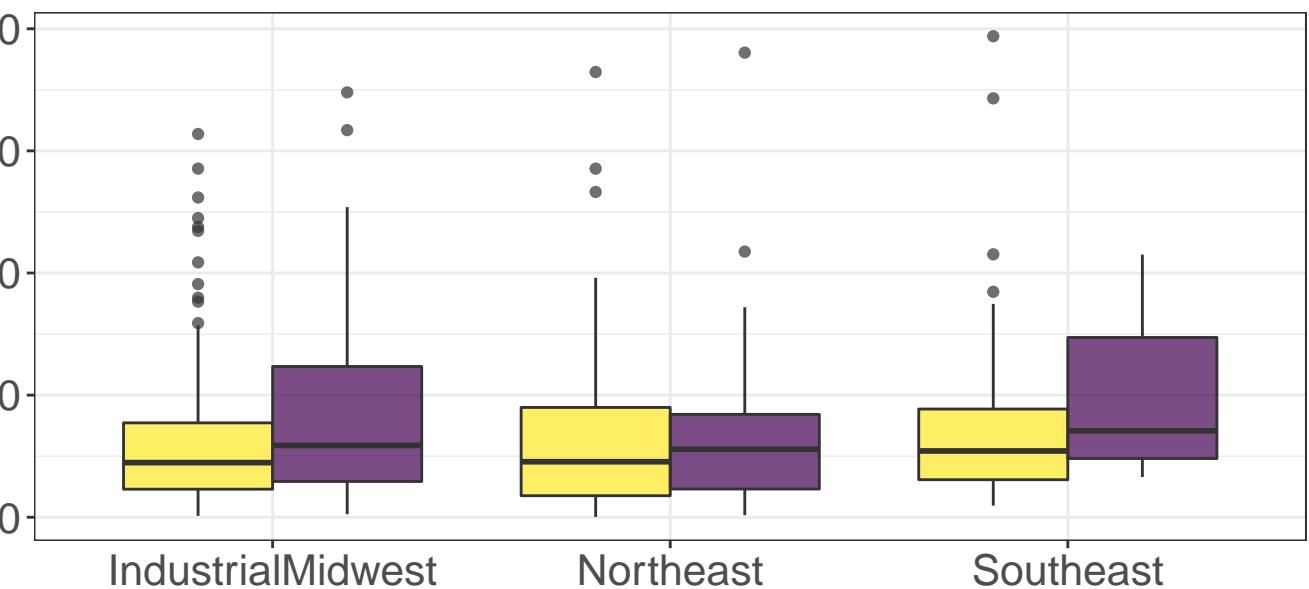
Number of possible linked monitors



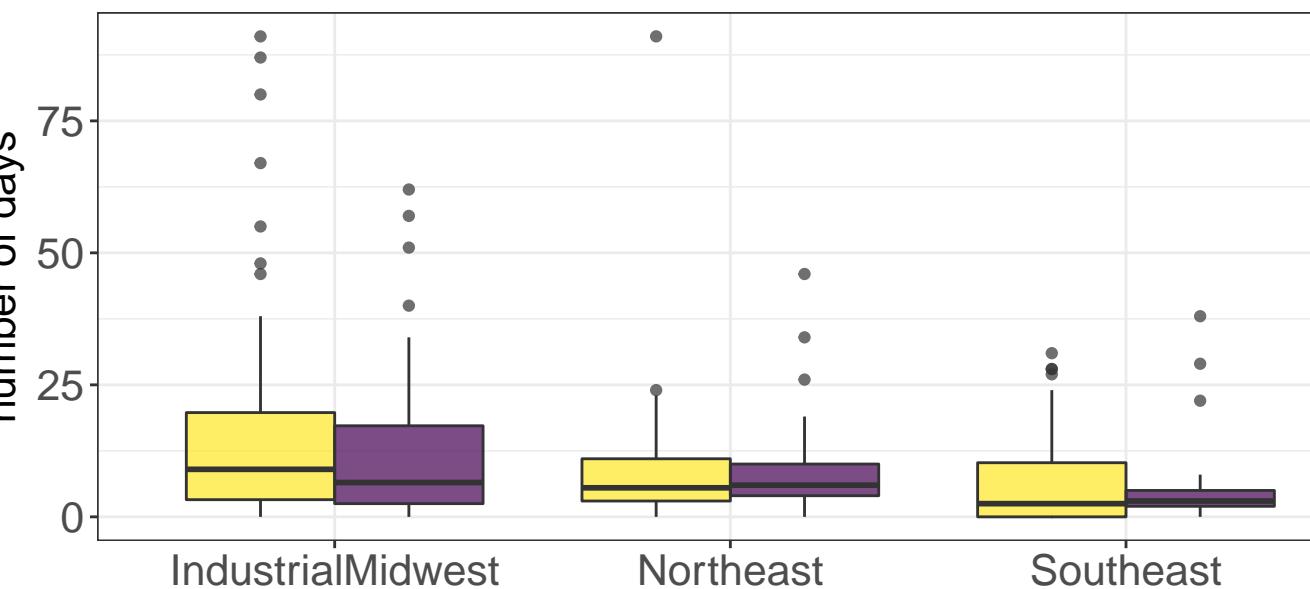
Average daily emissions



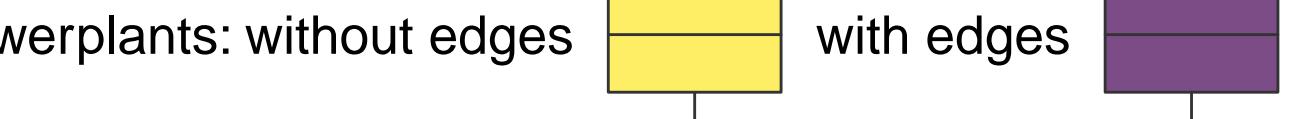
Standard deviation in daily emissions



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

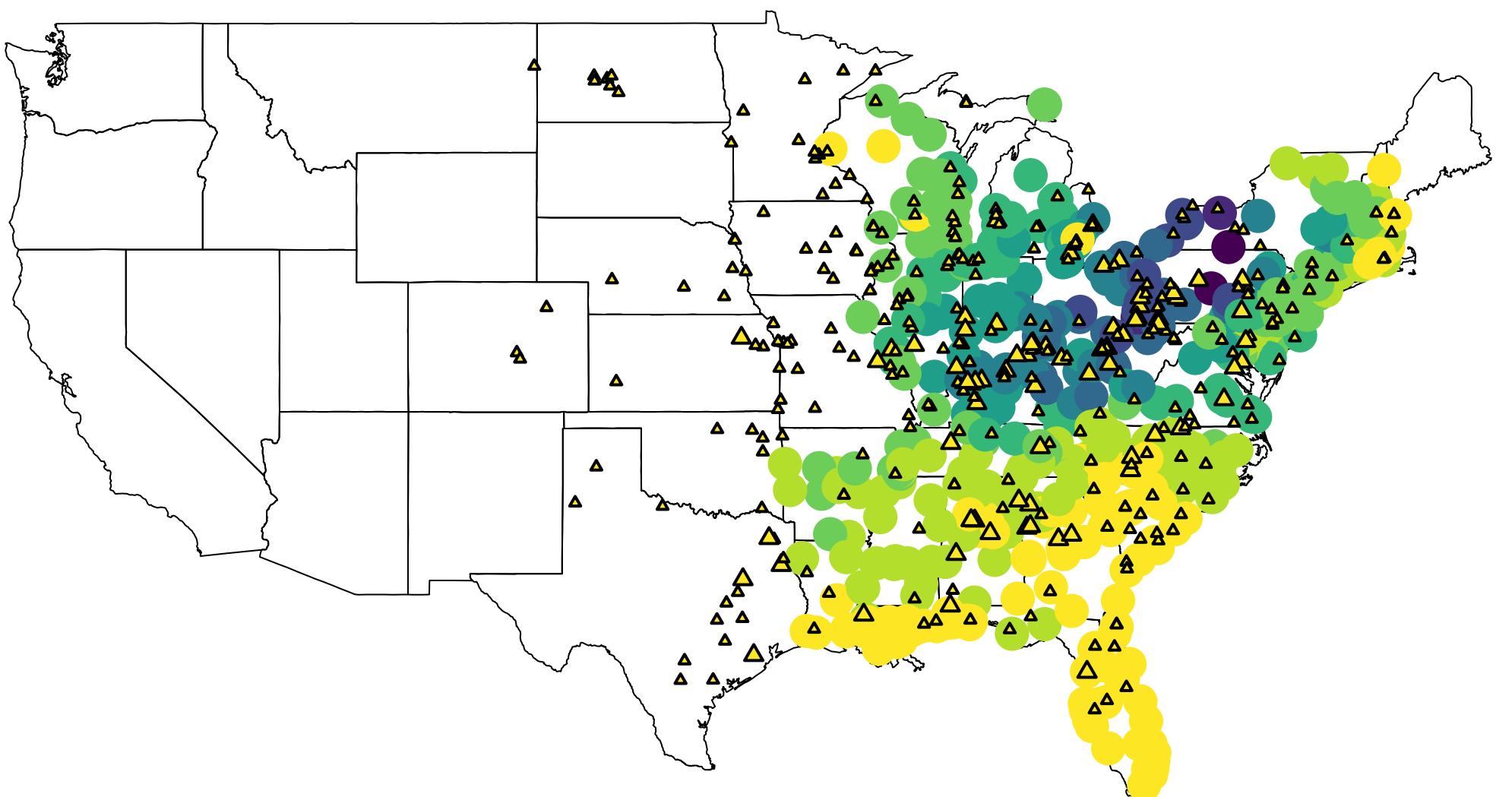


Powerplants: without edges

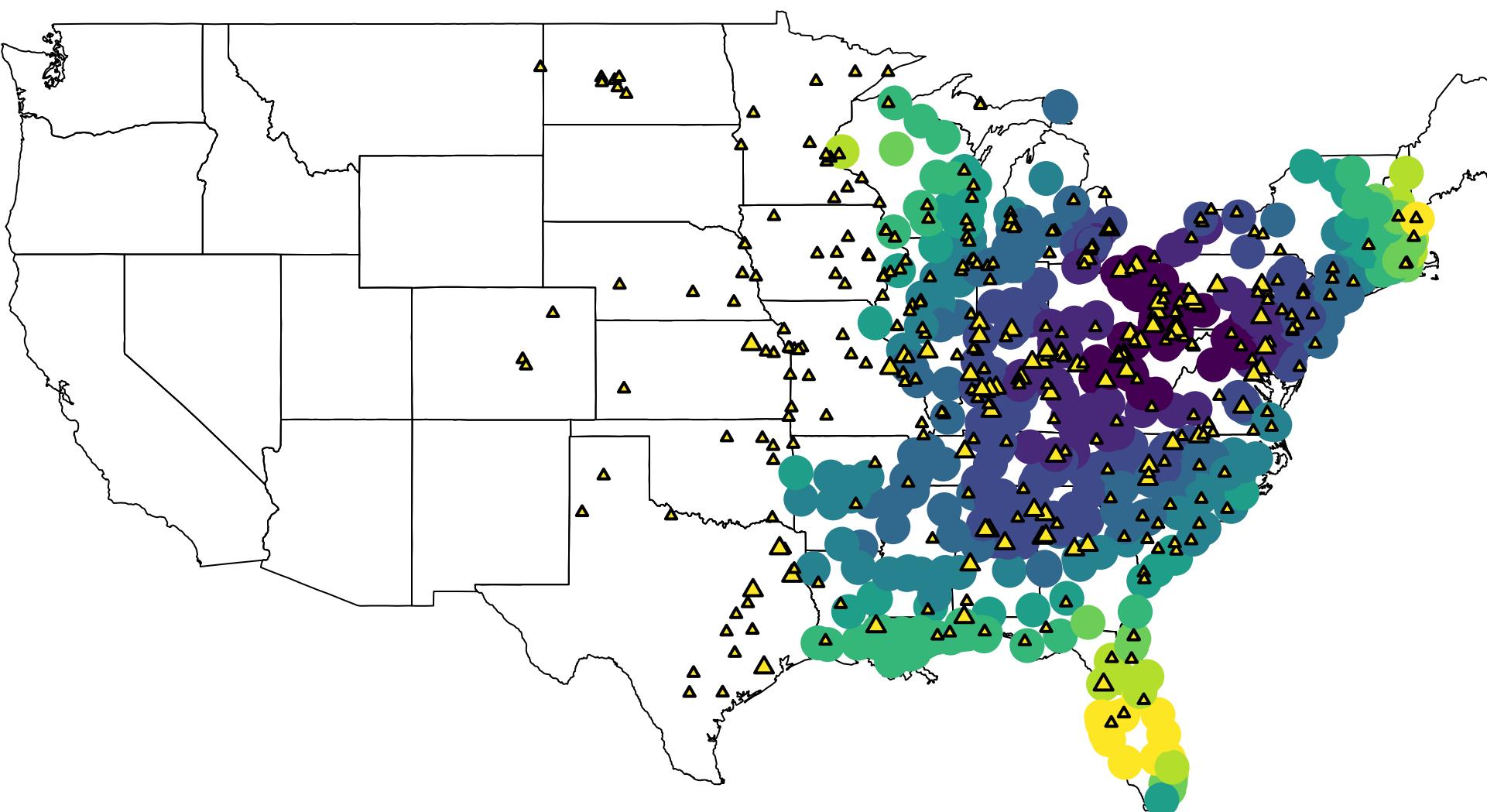


with edges

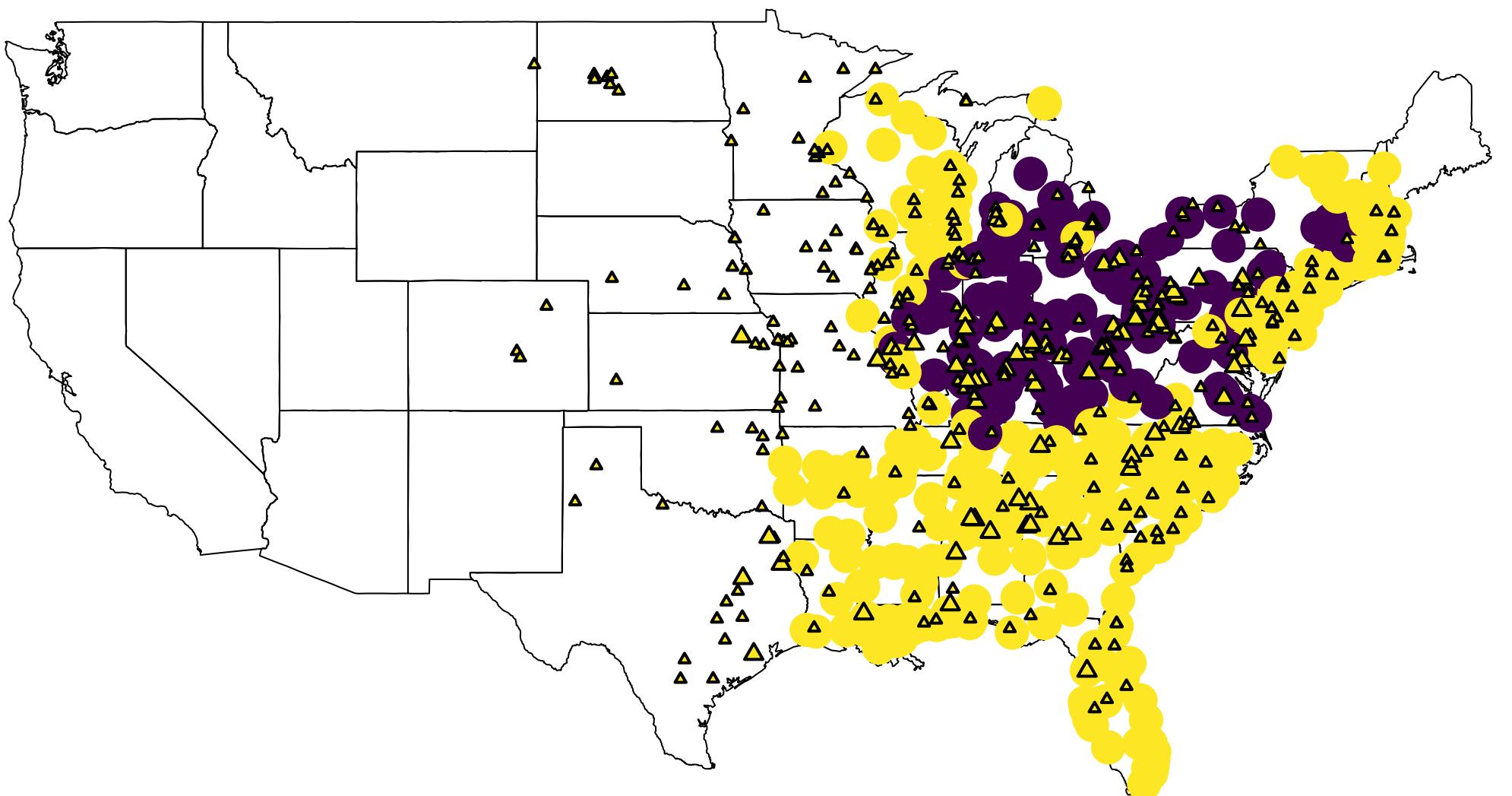
Monitor exposure: sum of gams.coeff, summer 2005



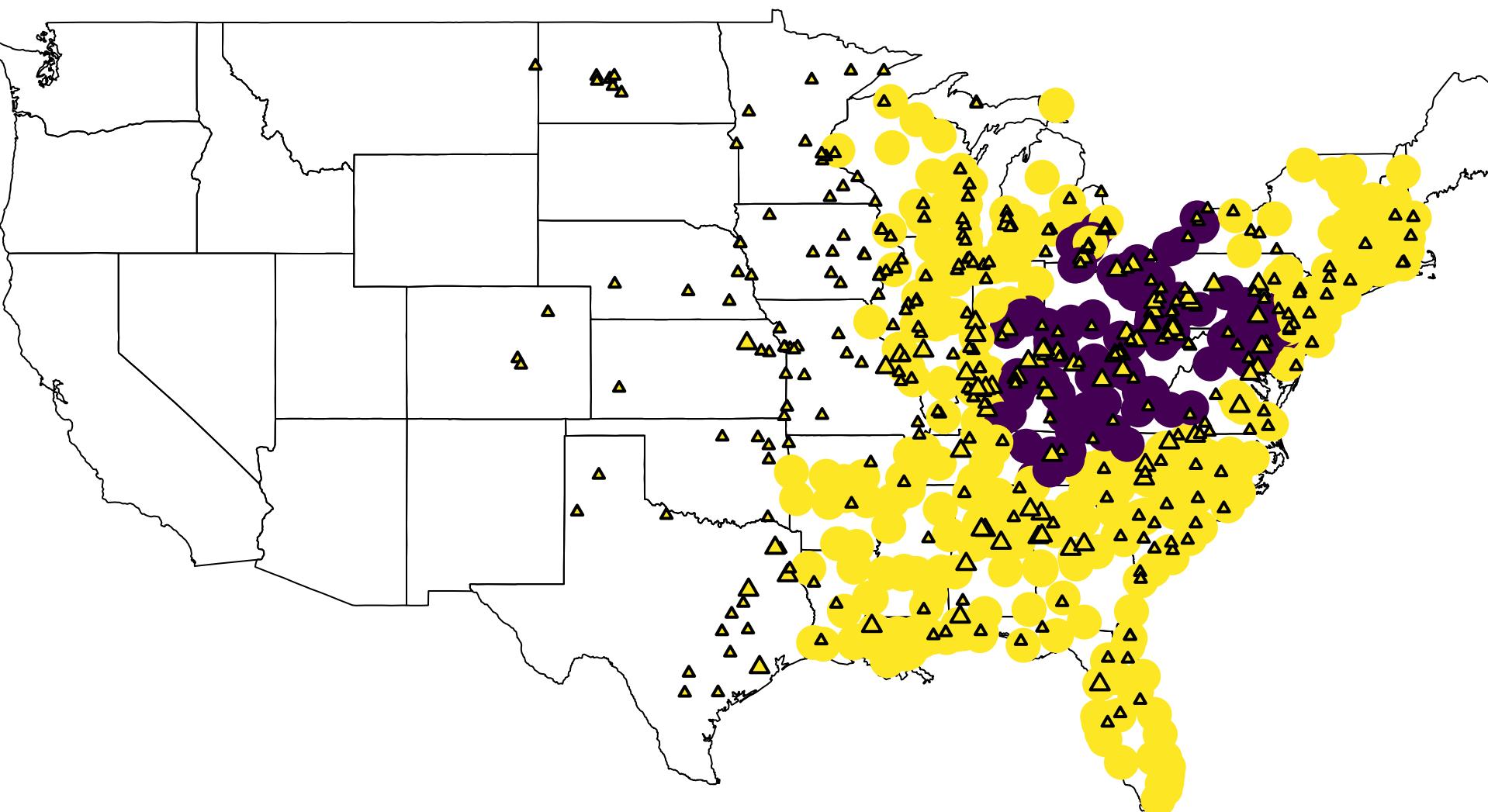
Monitor exposure: avgPM, decomposed75 summer 2005



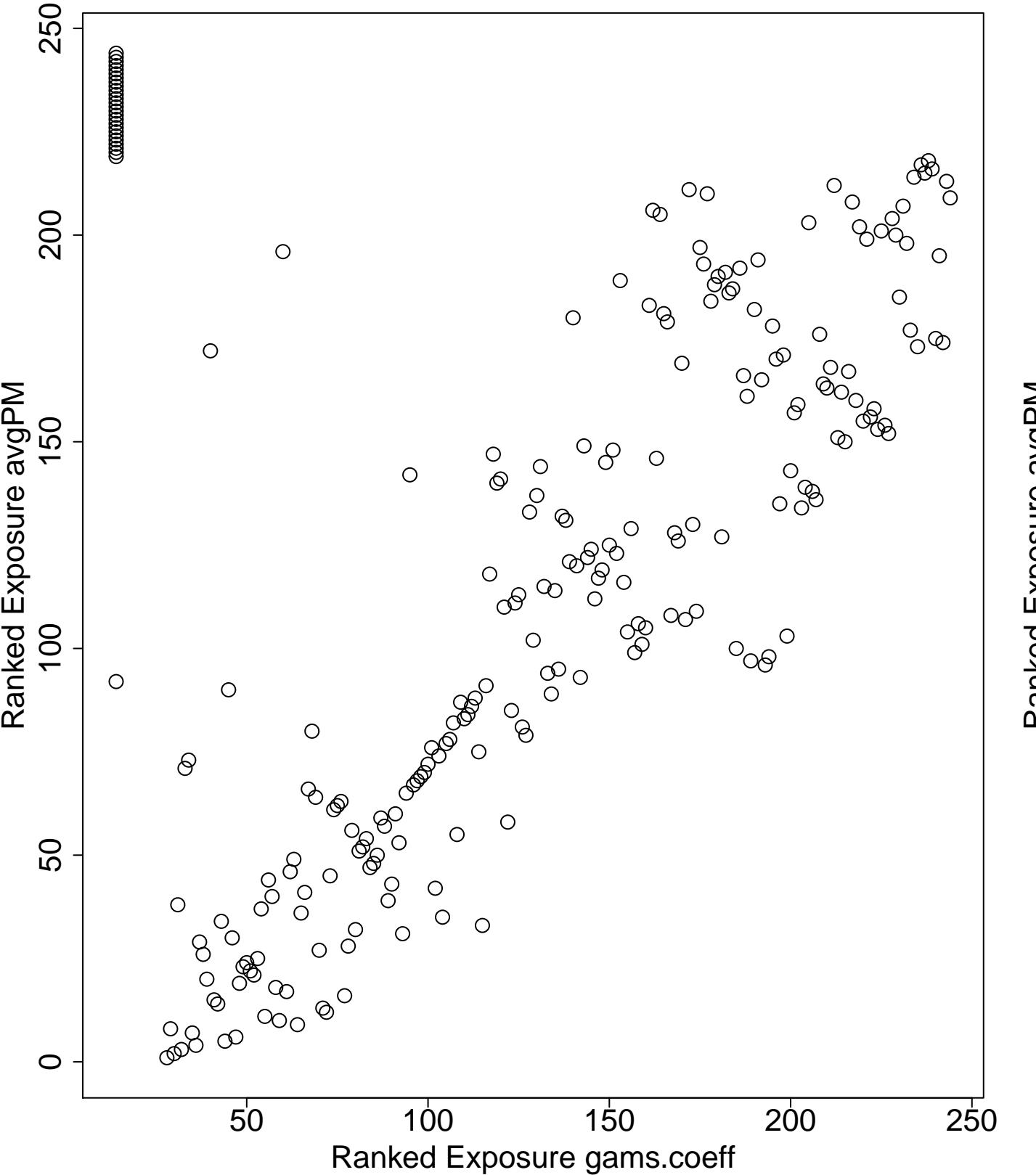
Highest exposed: sum of gams.coeff, summer 2005



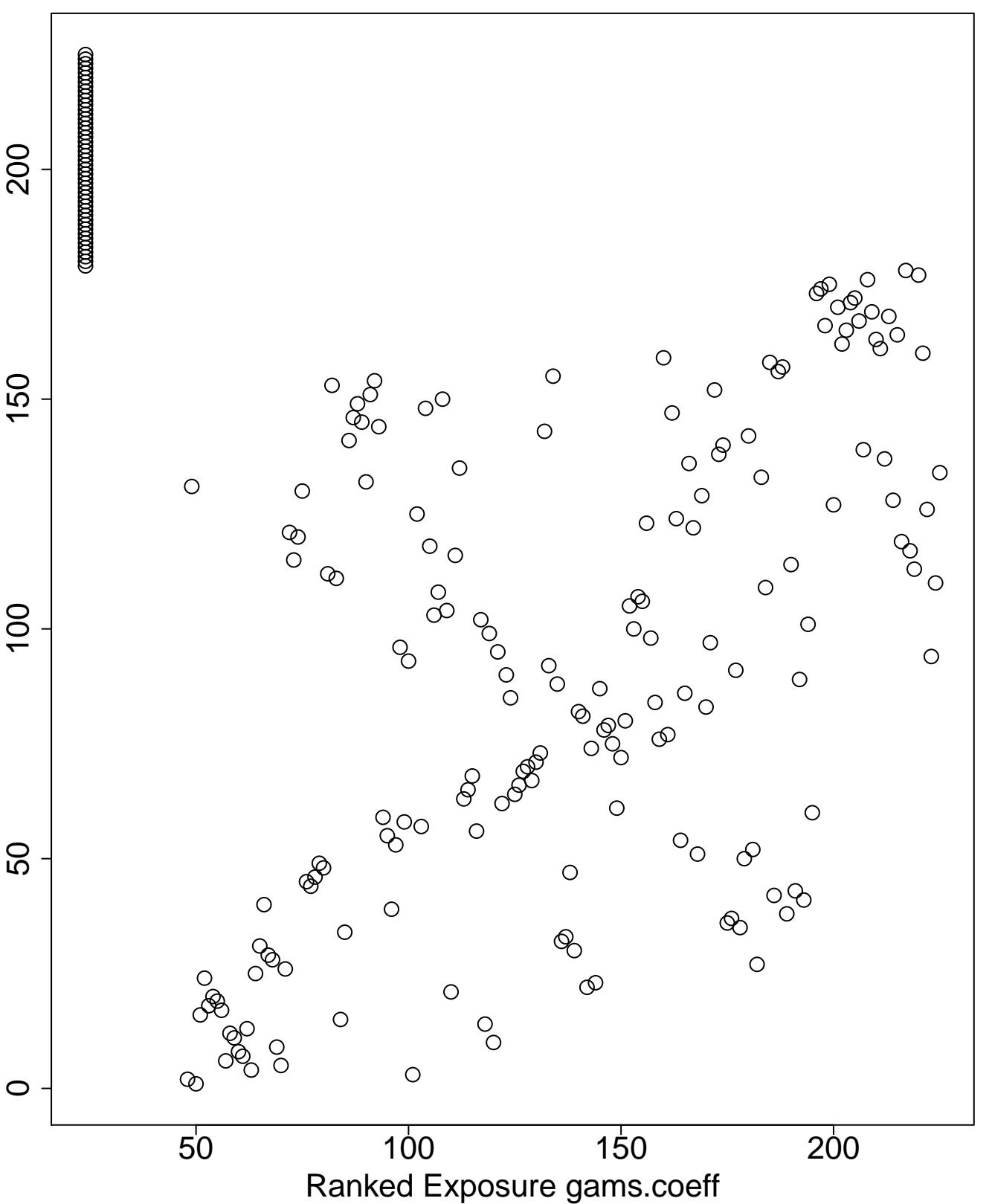
Highest exposed: avgPM, decomposed75 summer 2005



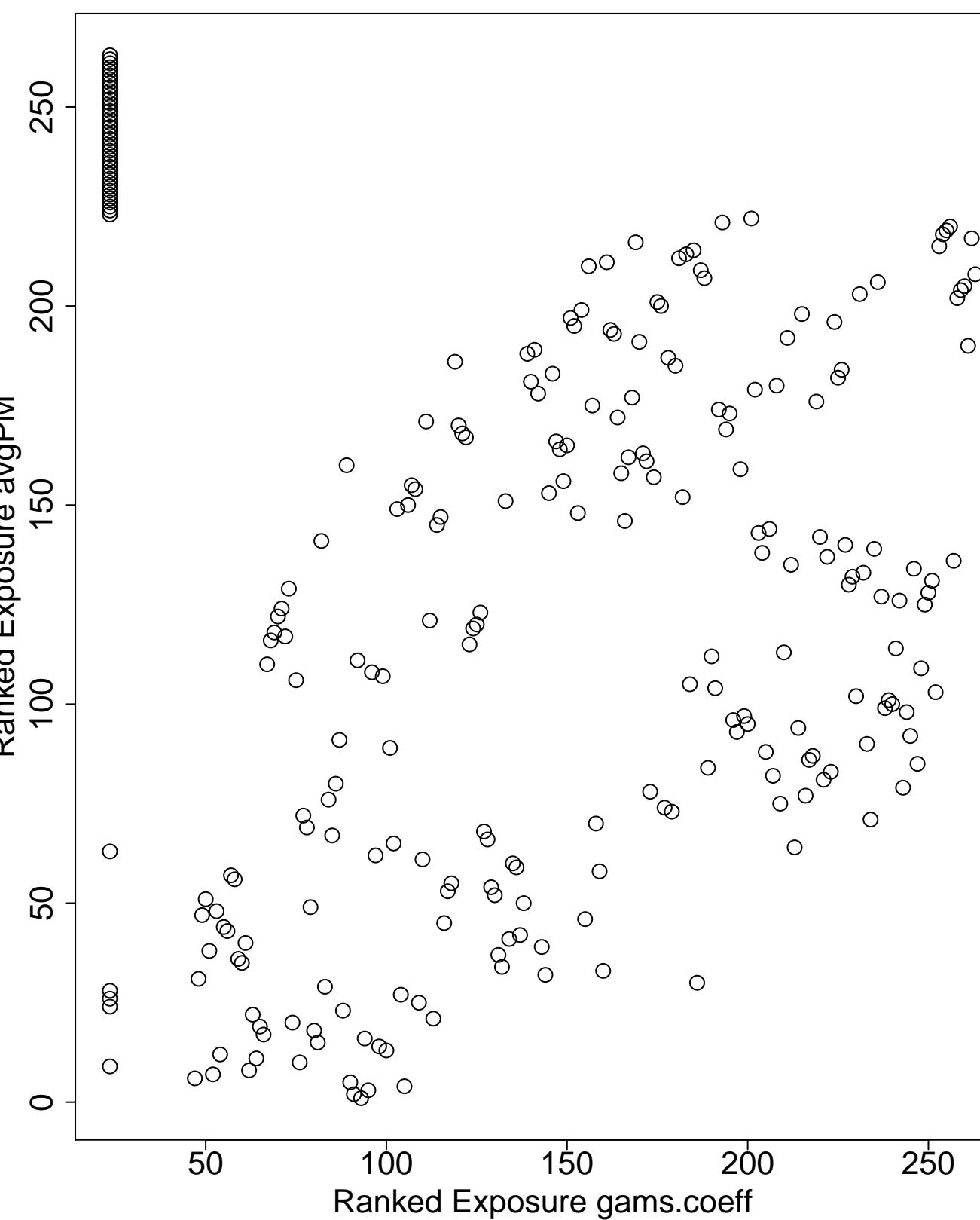
IndustrialMidwest correlation = 0.87



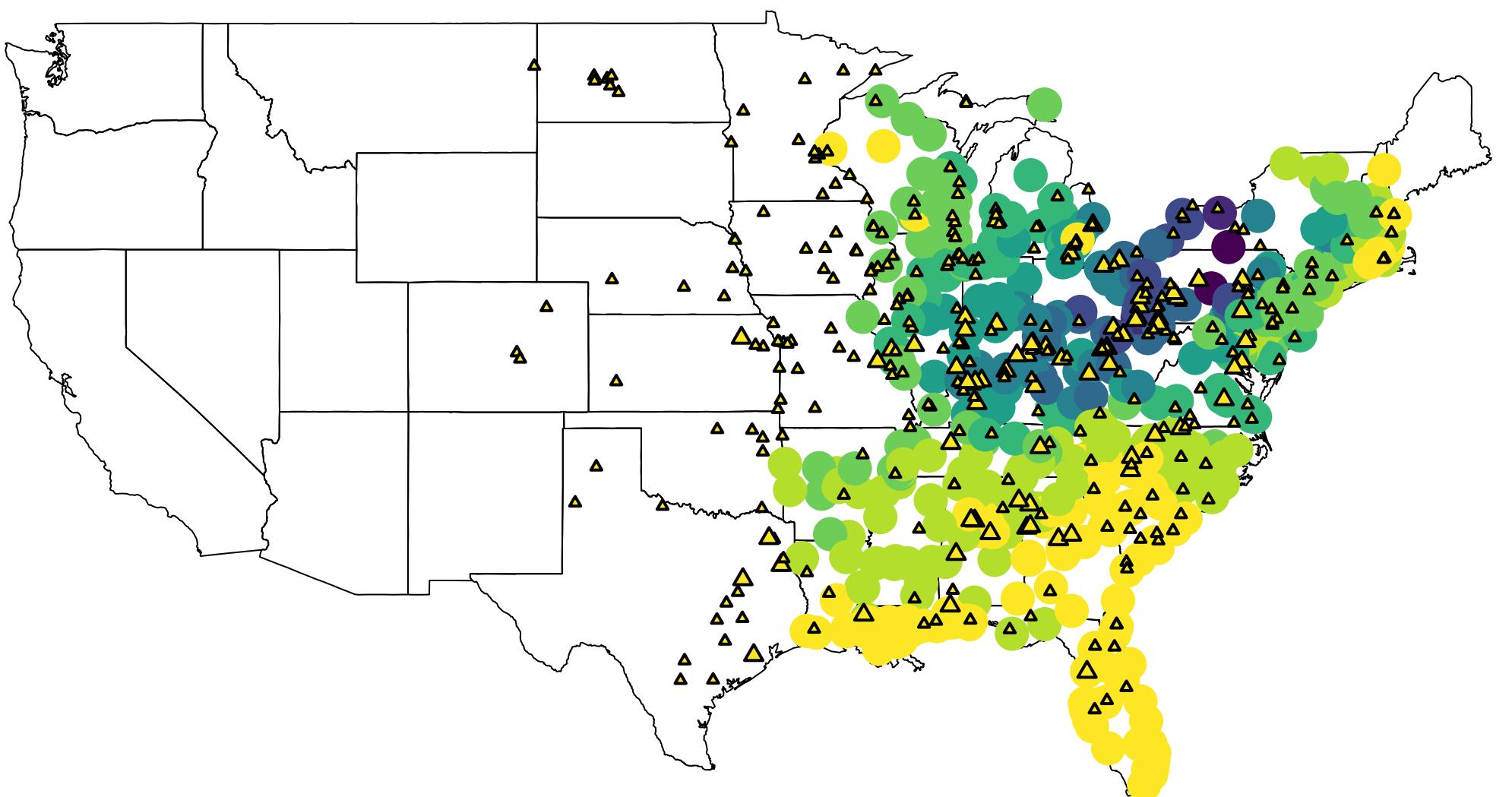
Northeast correlation = 0.55



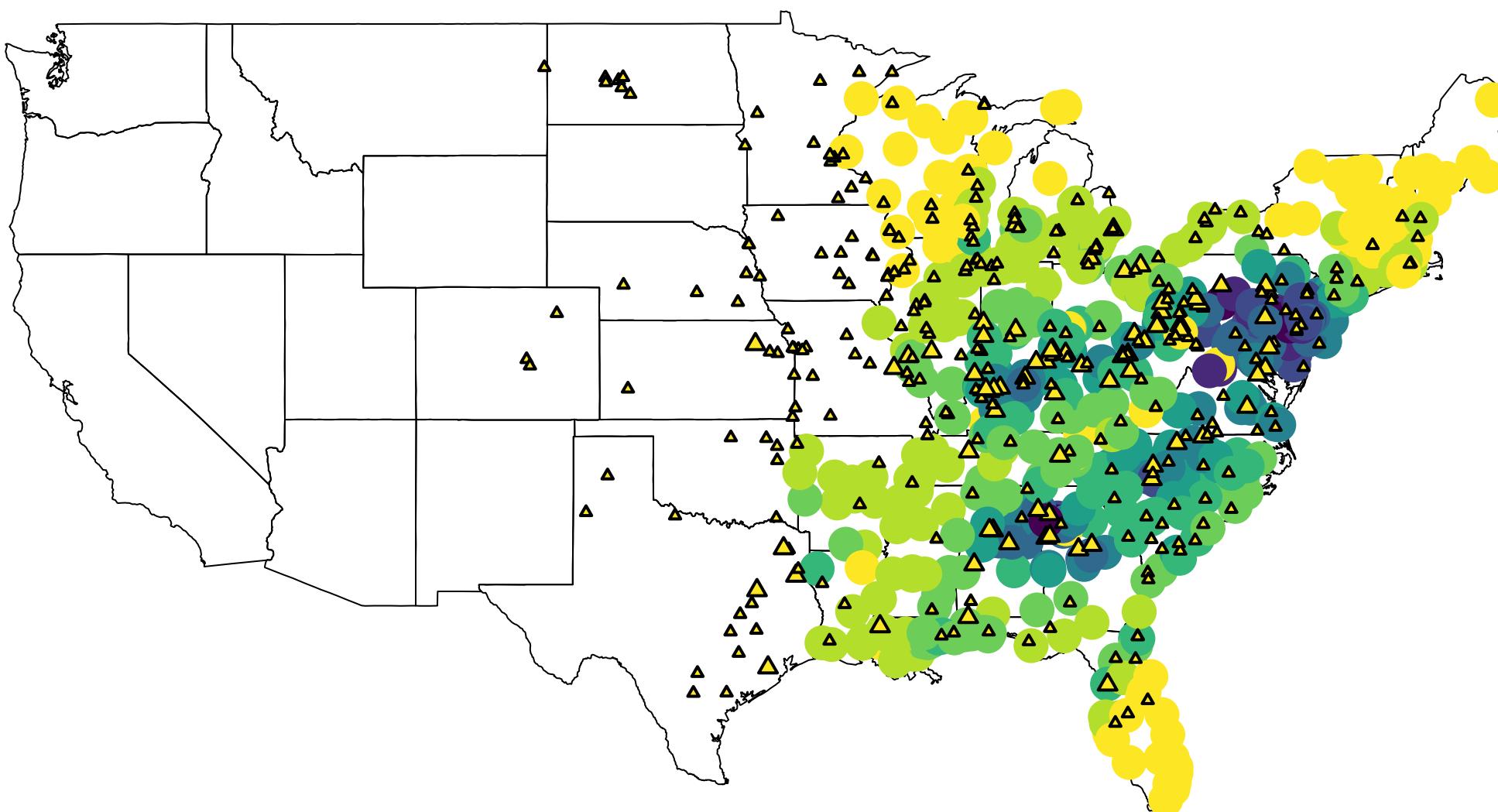
Southeast correlation = 0.53



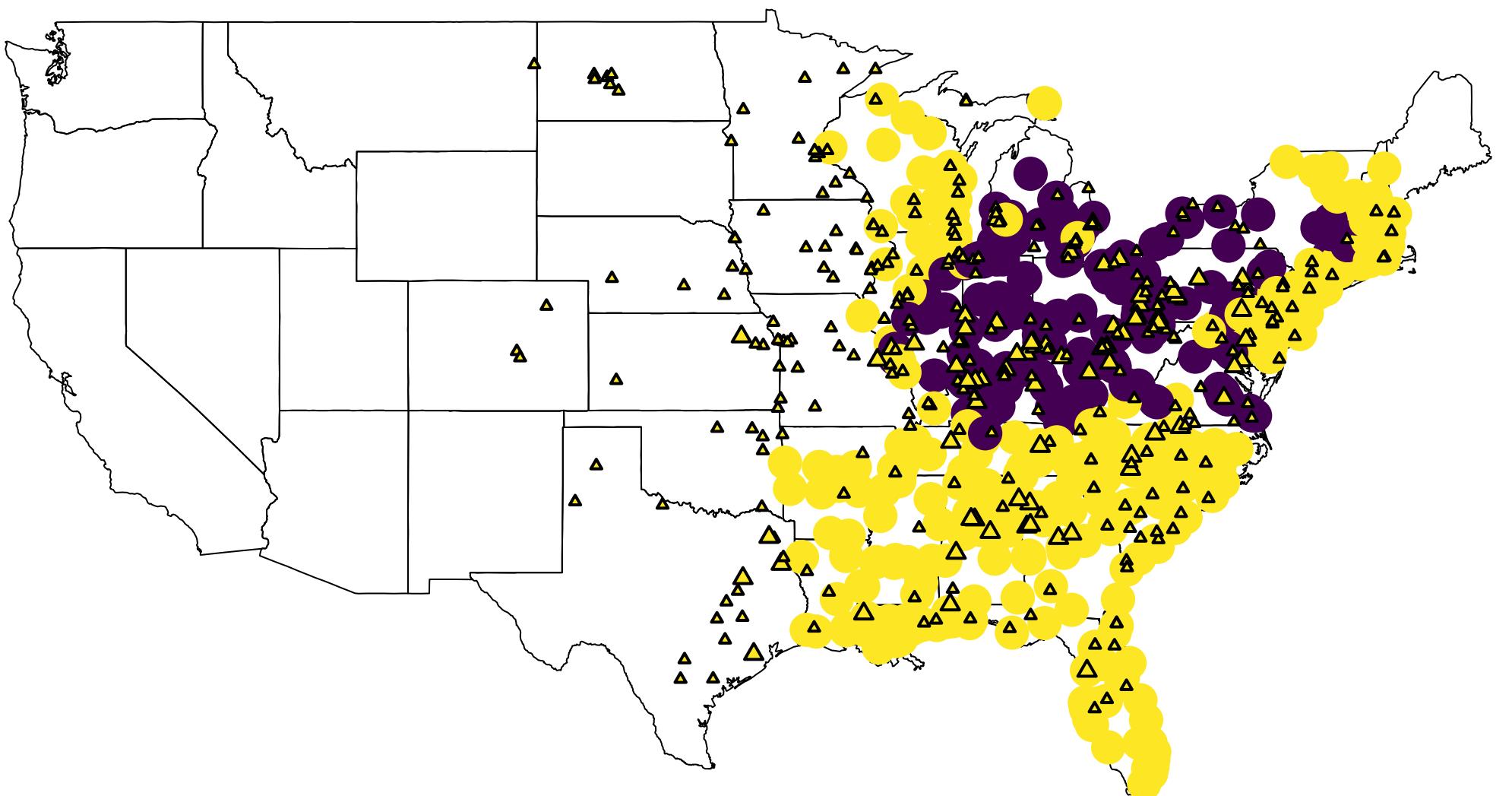
Monitor exposure: sum of gams.coeff, summer 2005



Monitor exposure: annual coal emissions (InMAP)



Highest exposed: sum of gams.coeff, summer 2005



Highest exposed: annual coal emissions (InMAP)

