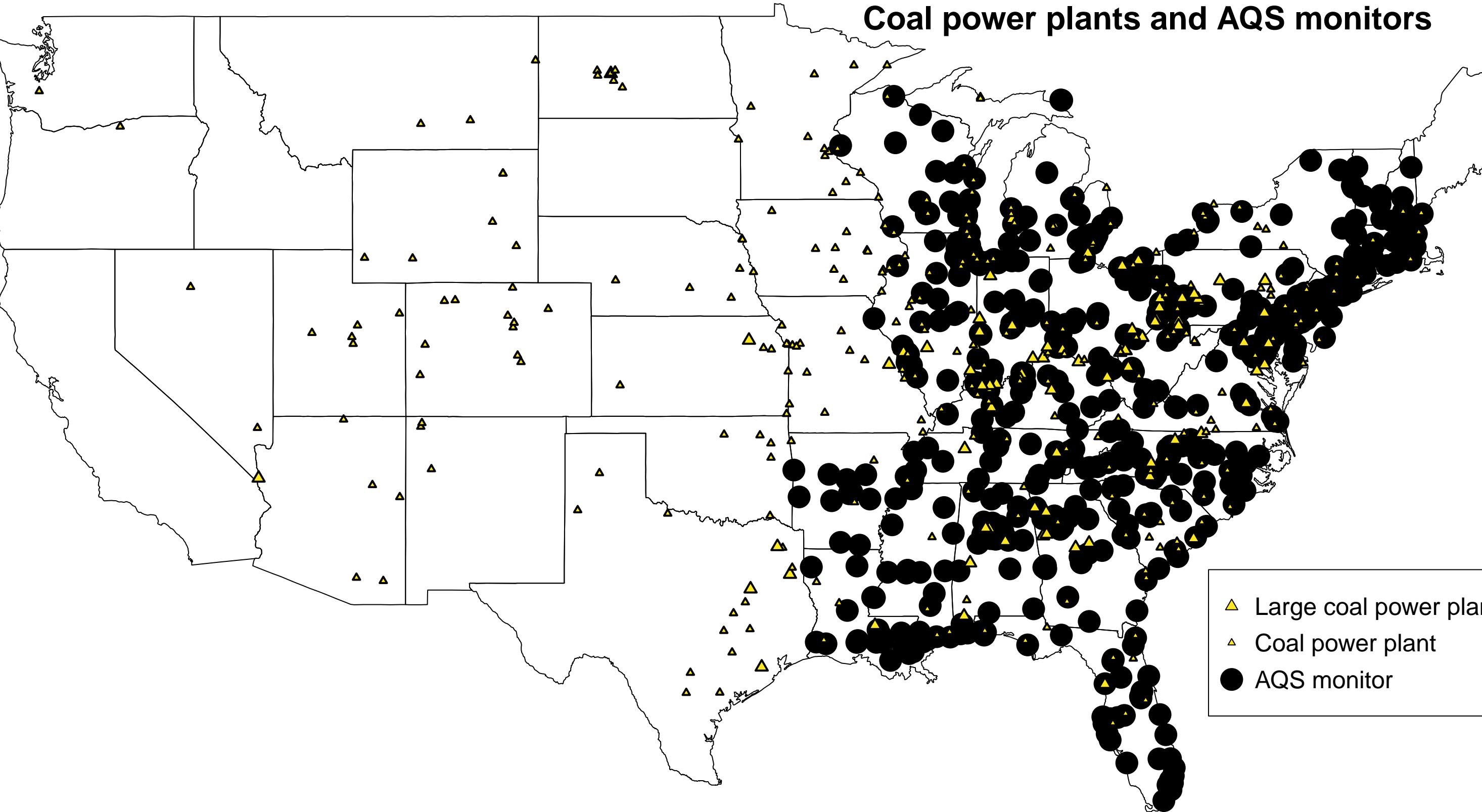
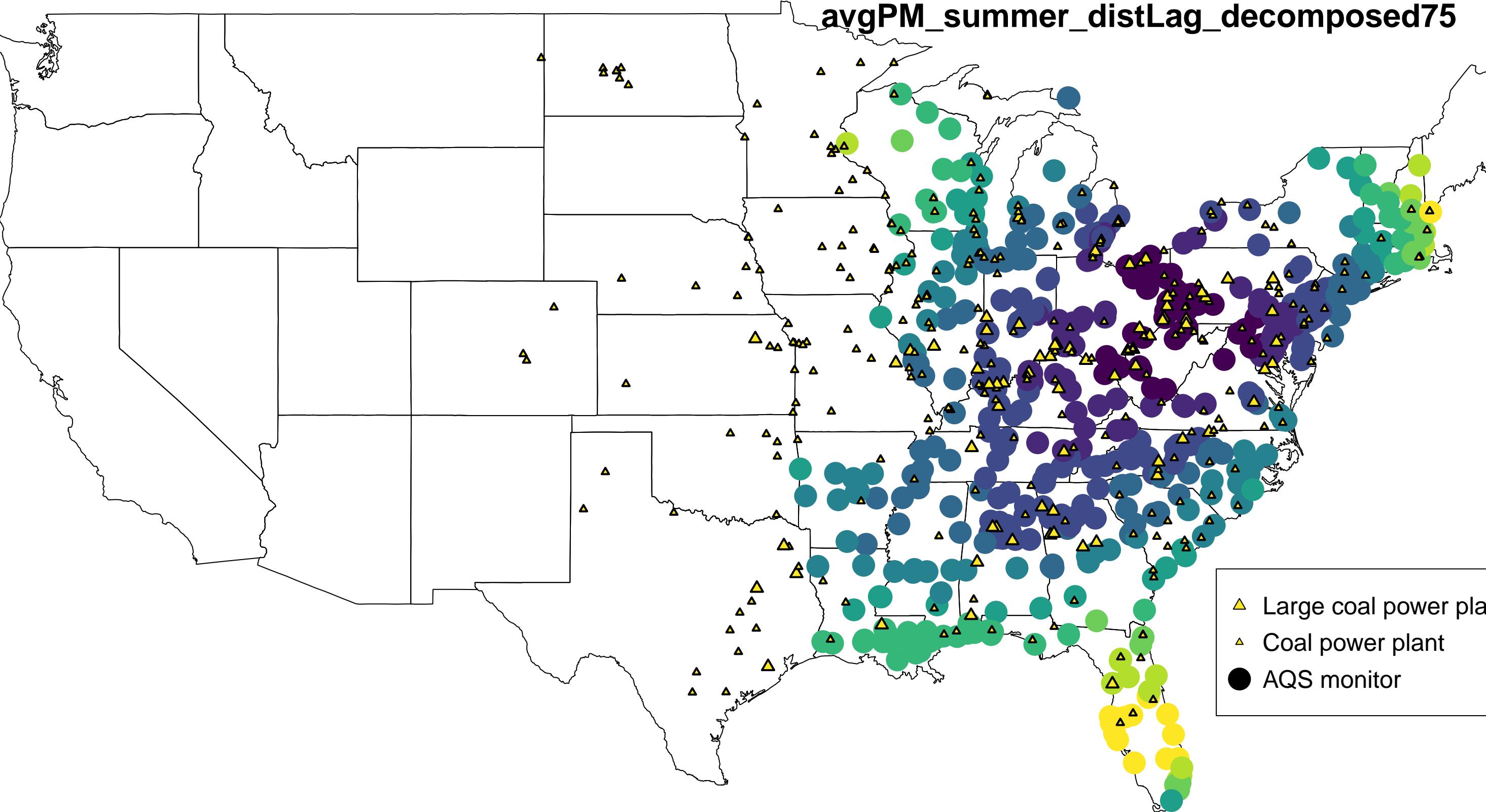


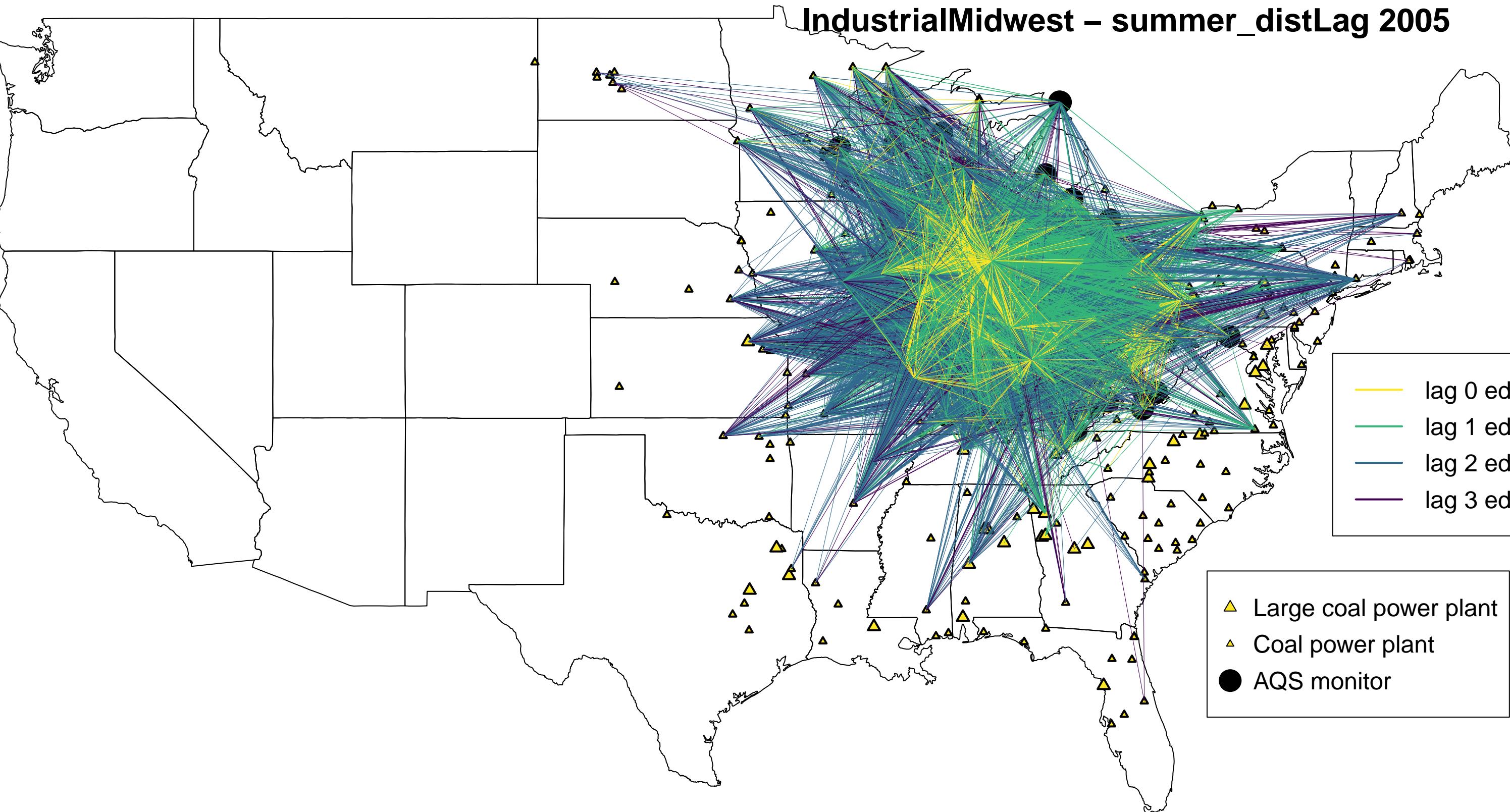
## Coal power plants and AQS monitors



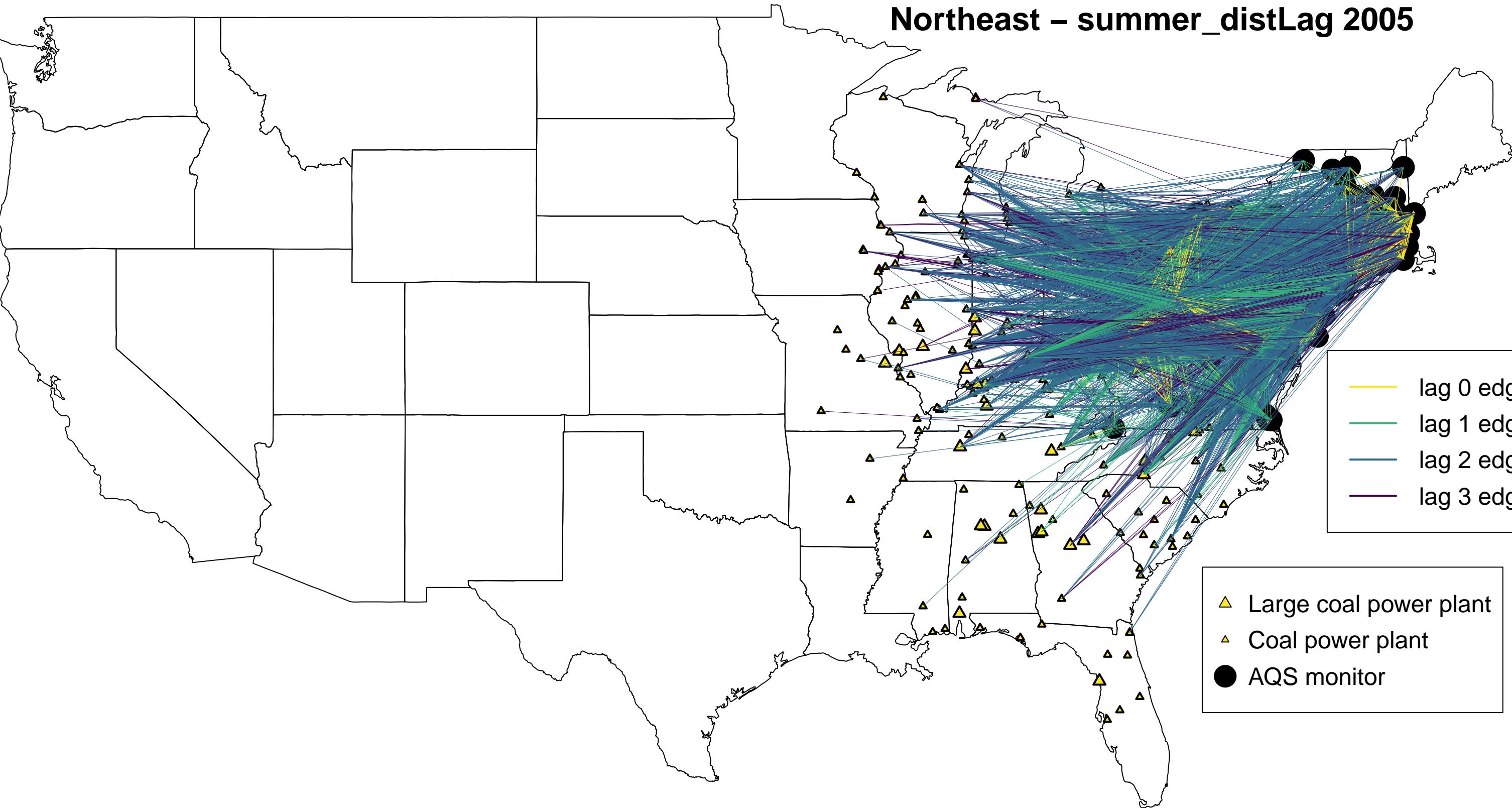
**avgPM\_summer\_distLag\_decomposed75**



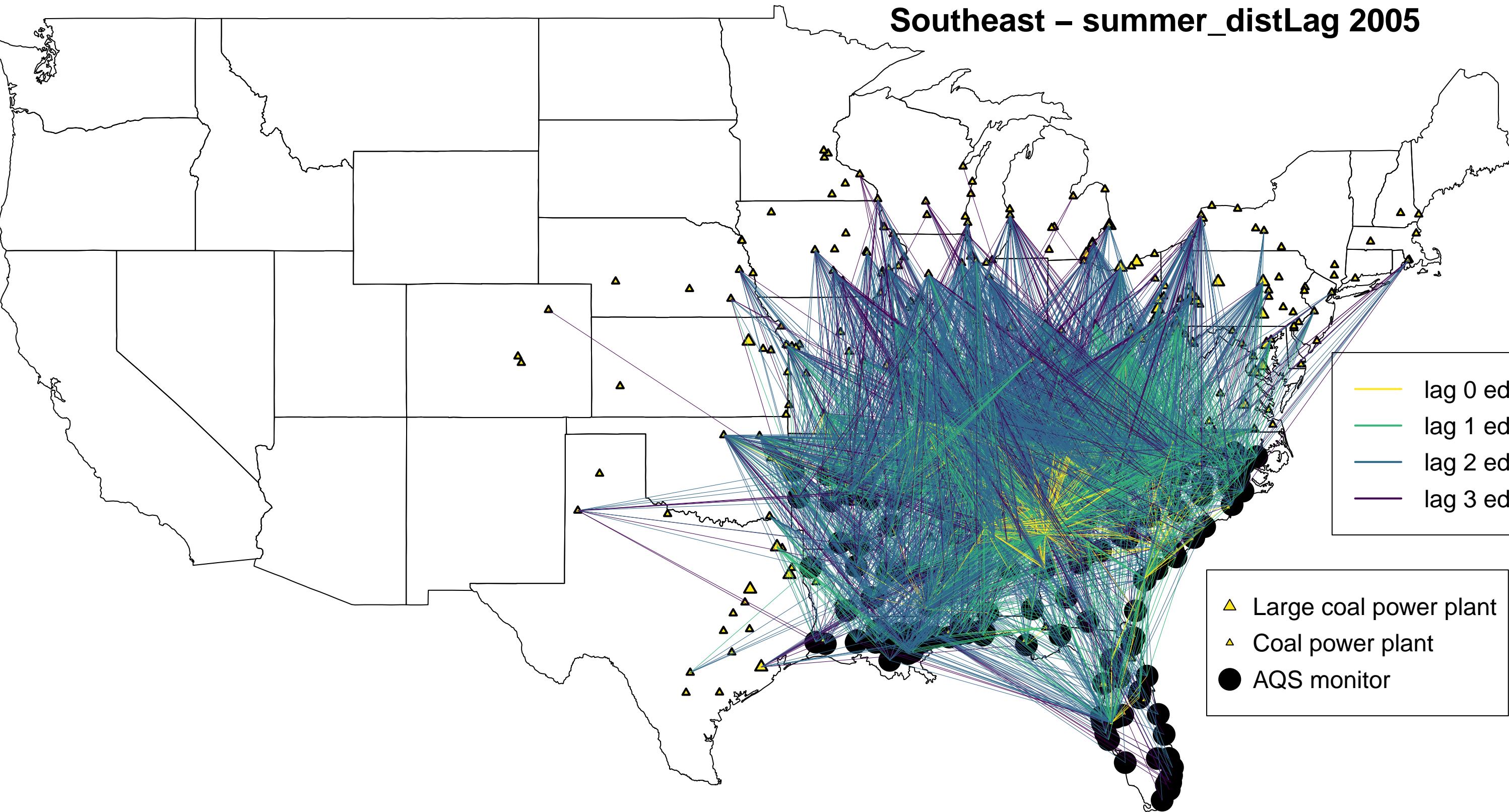
# IndustrialMidwest – summer\_distLag 2005



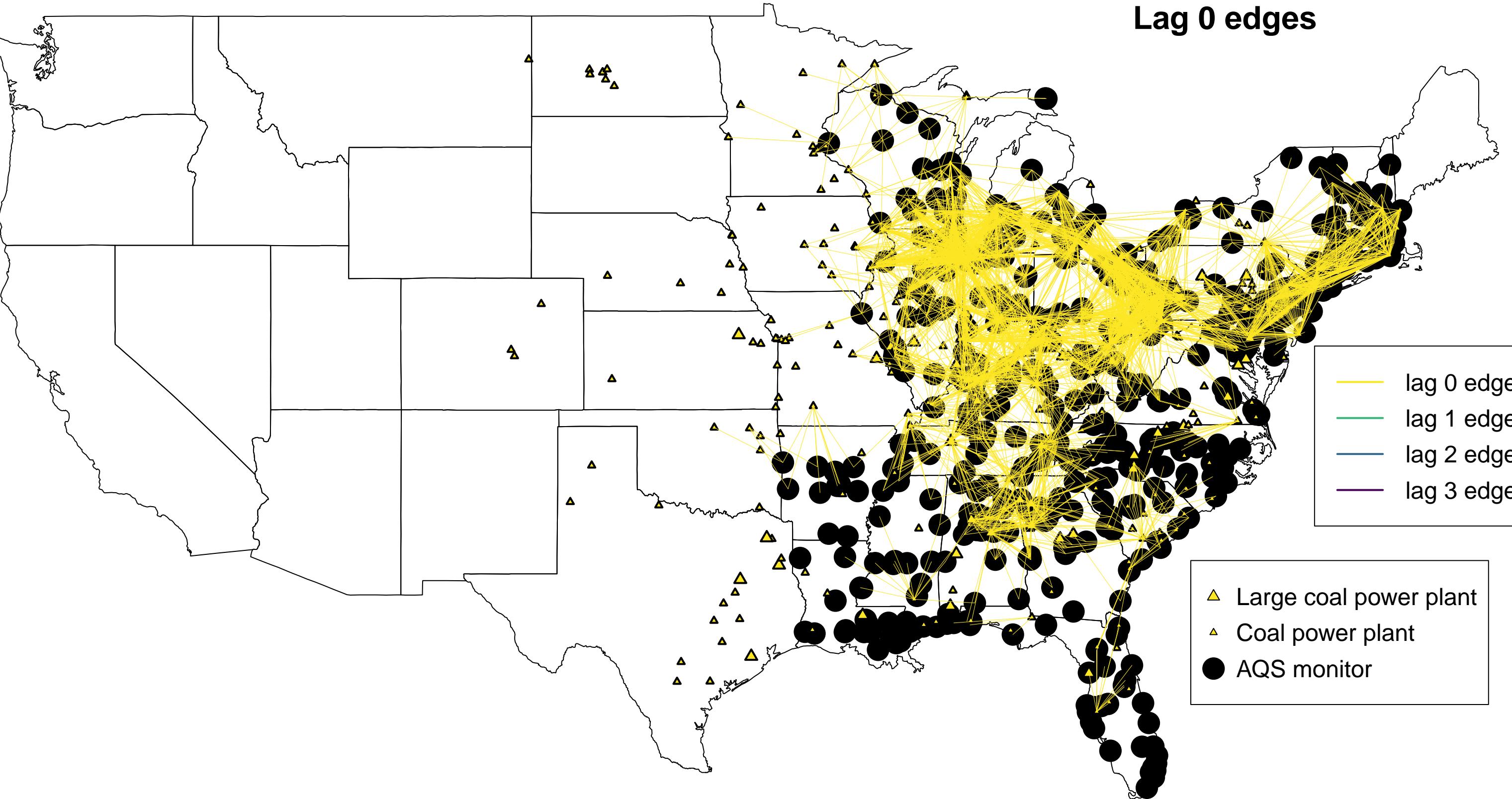
## Northeast – summer\_distLag 2005



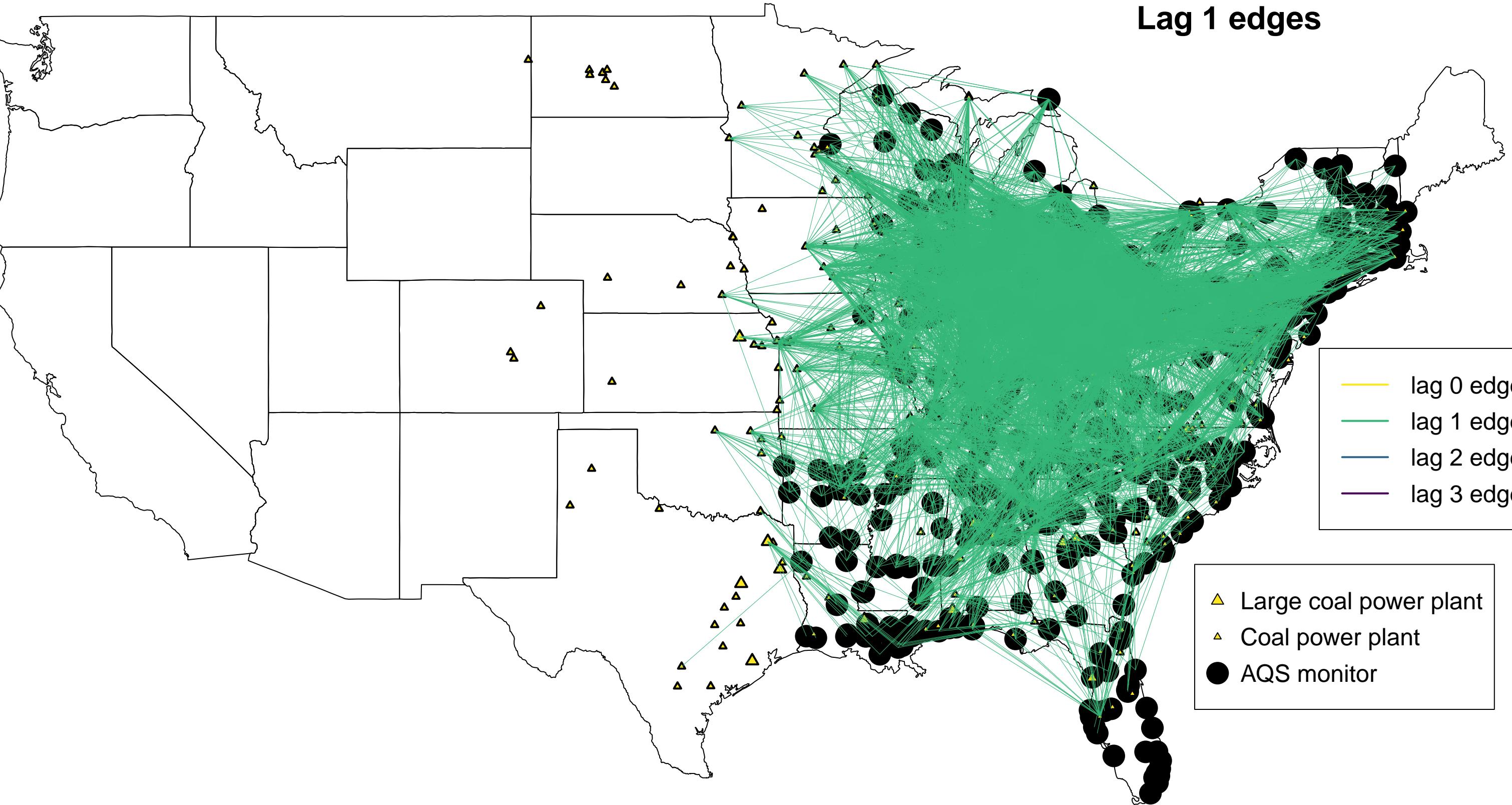
## Southeast – summer\_distLag 2005



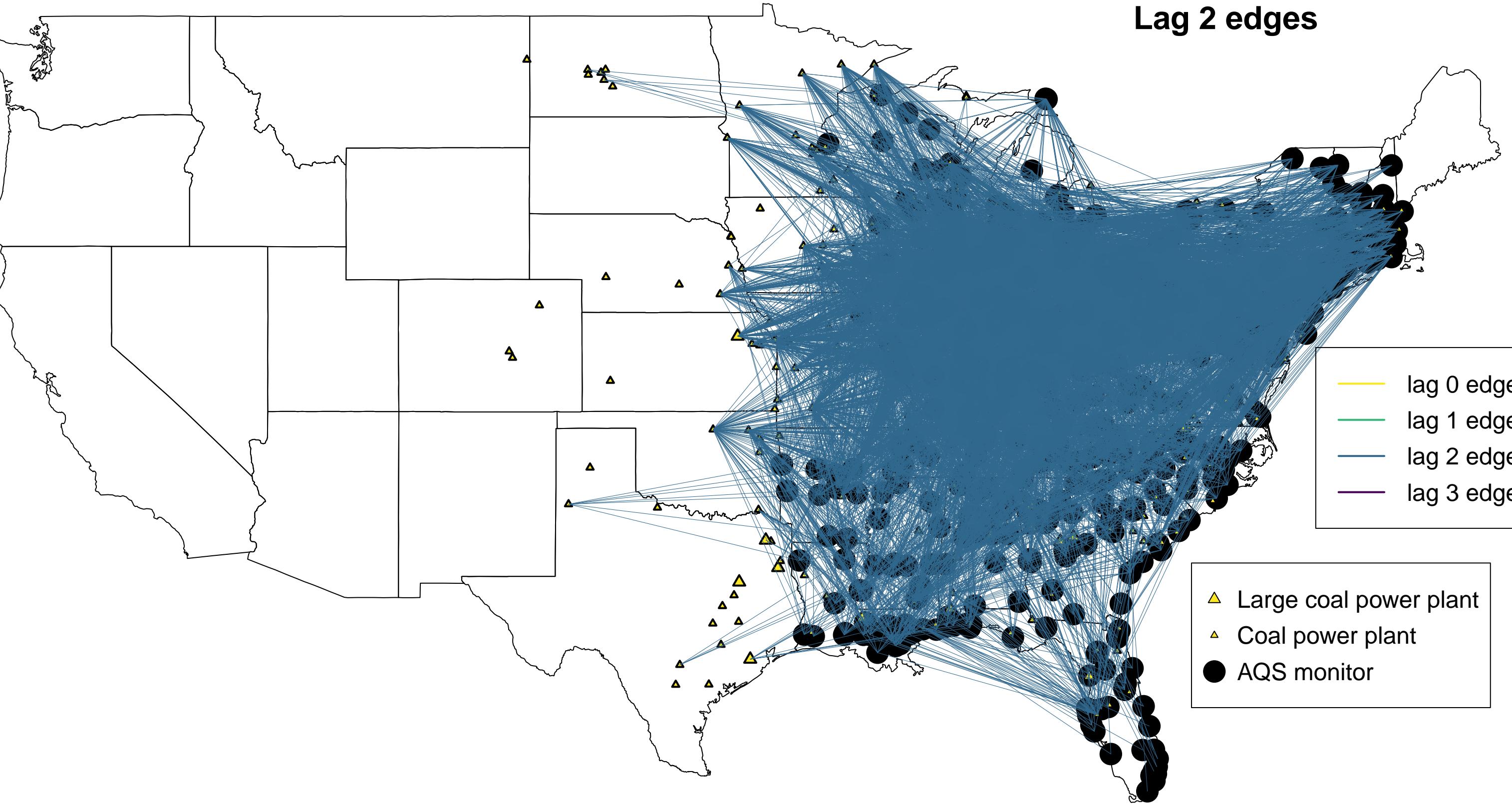
## Lag 0 edges



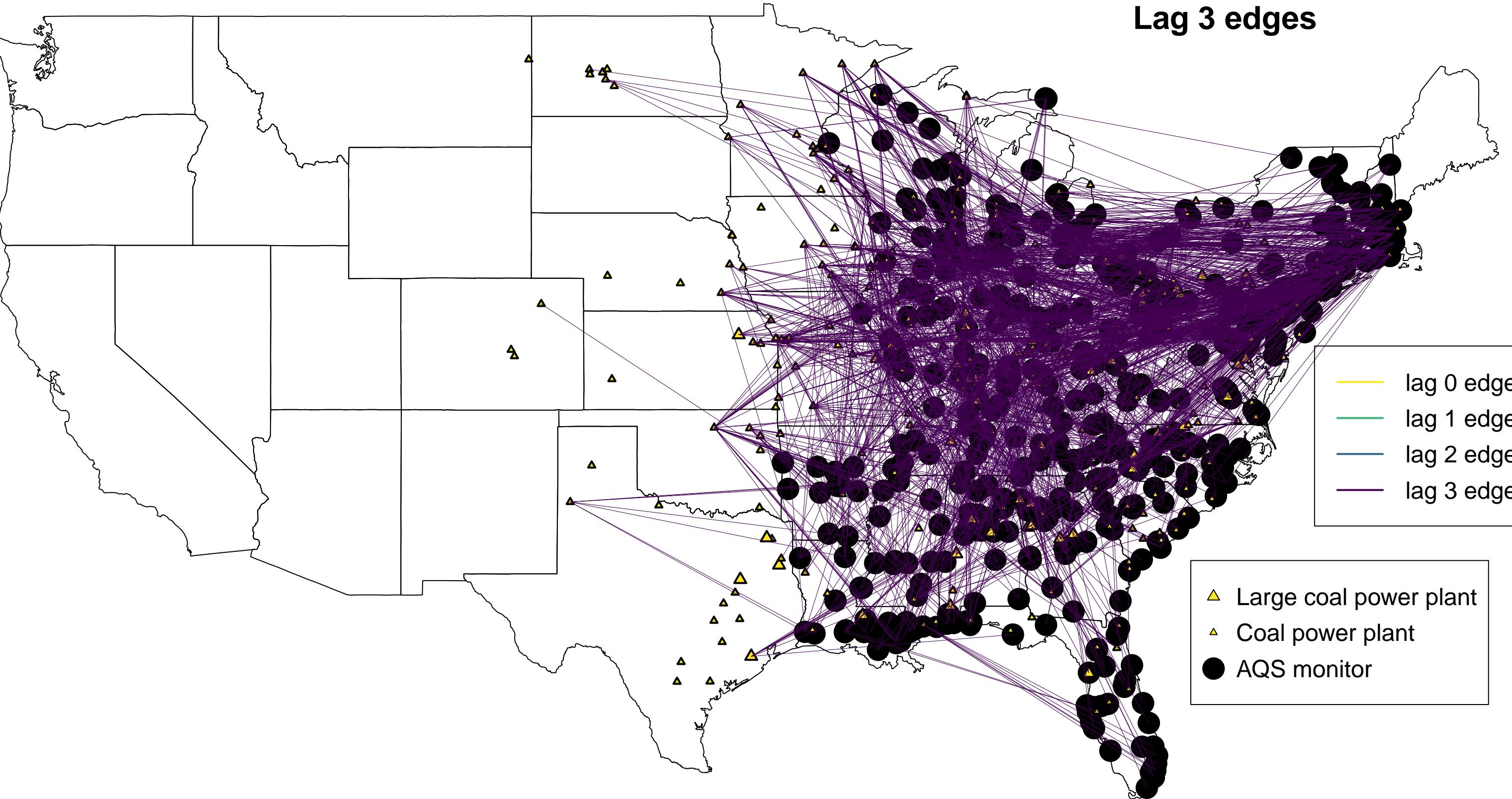
# Lag 1 edges

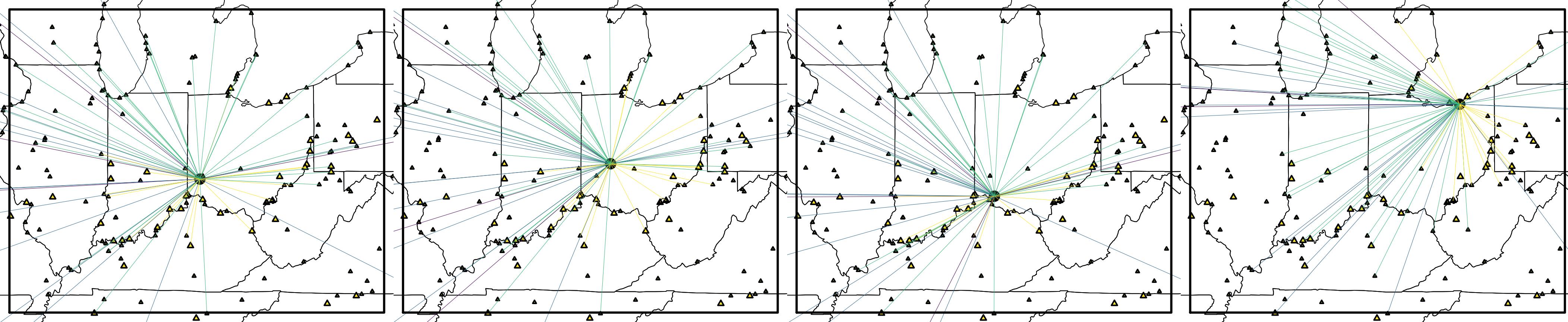
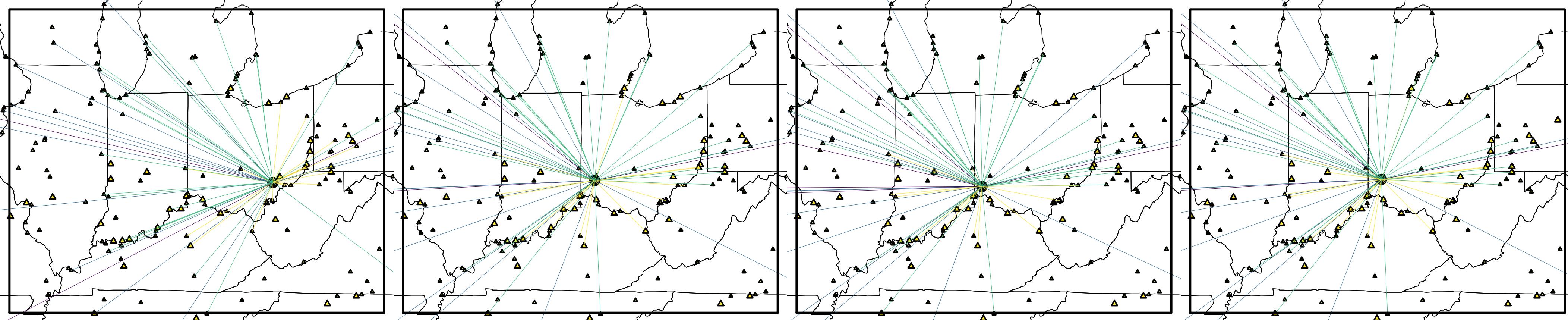


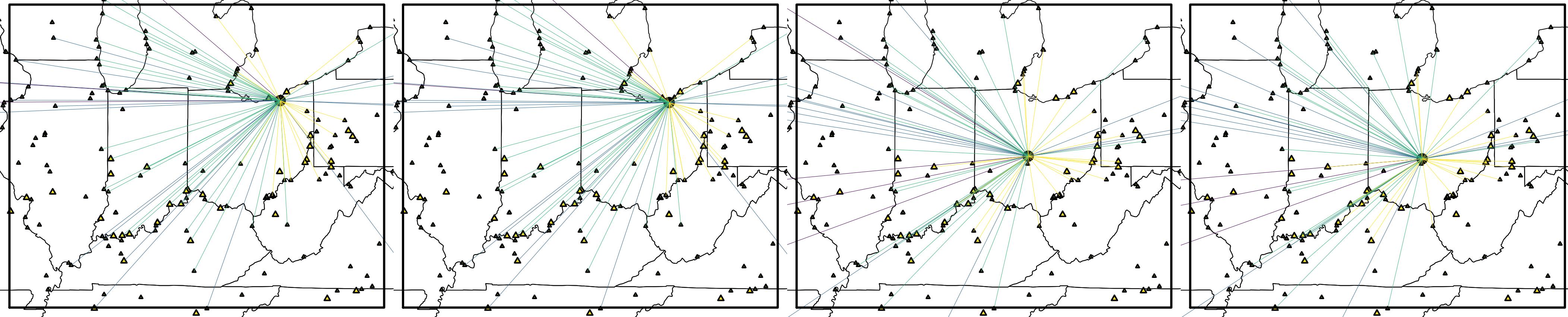
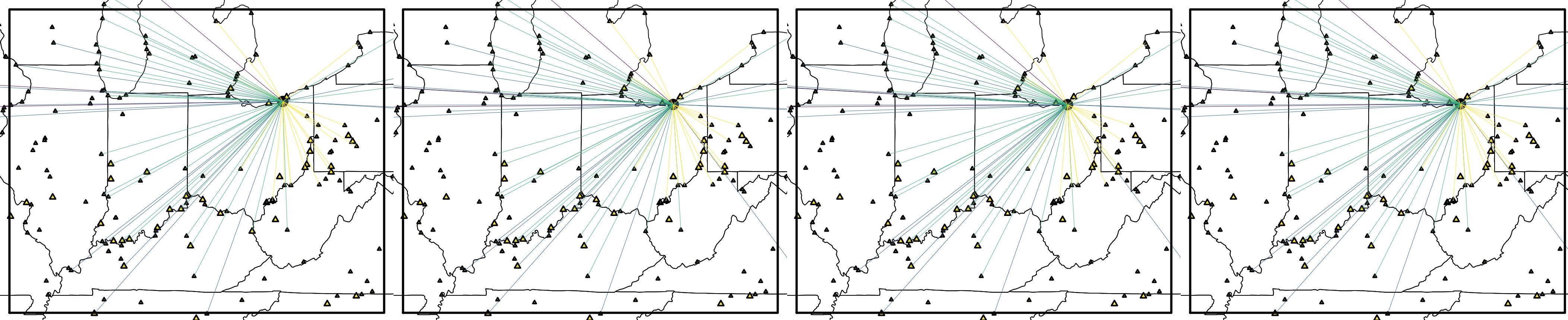
## Lag 2 edges

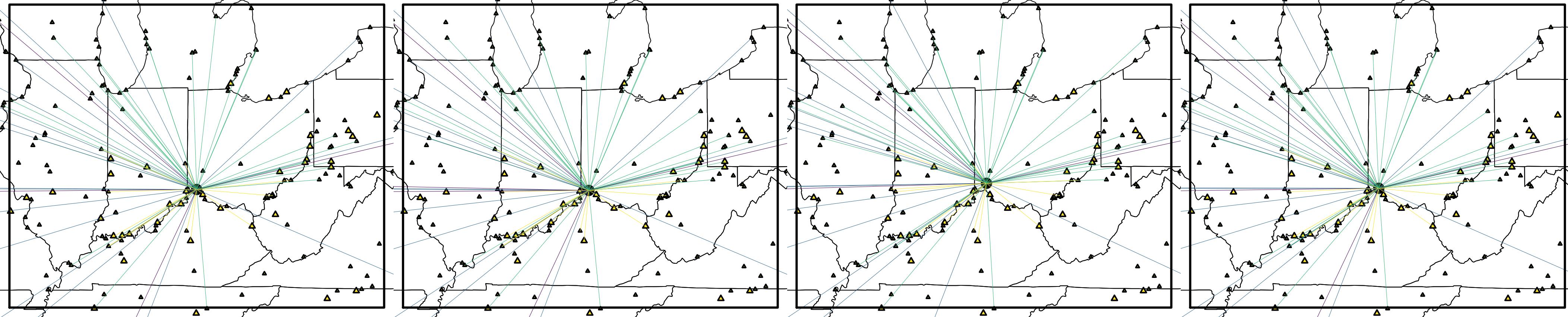
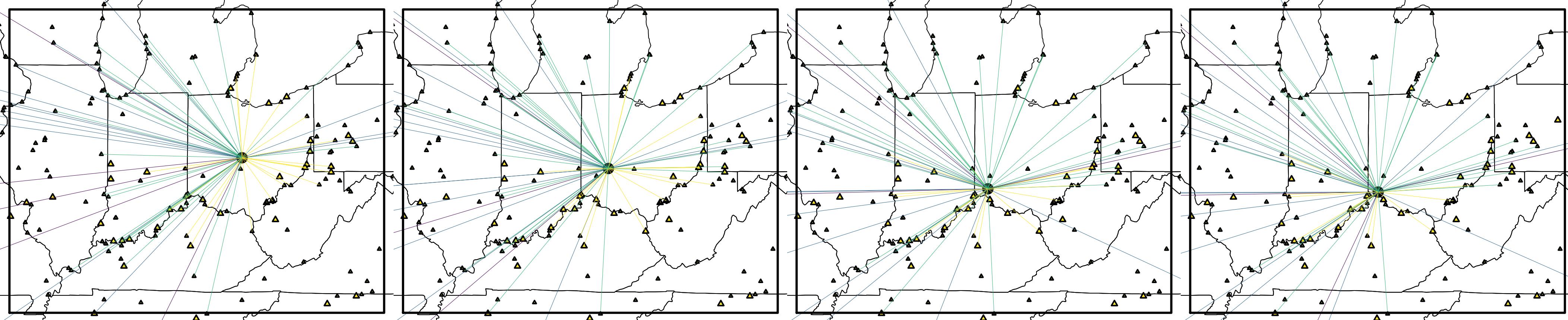


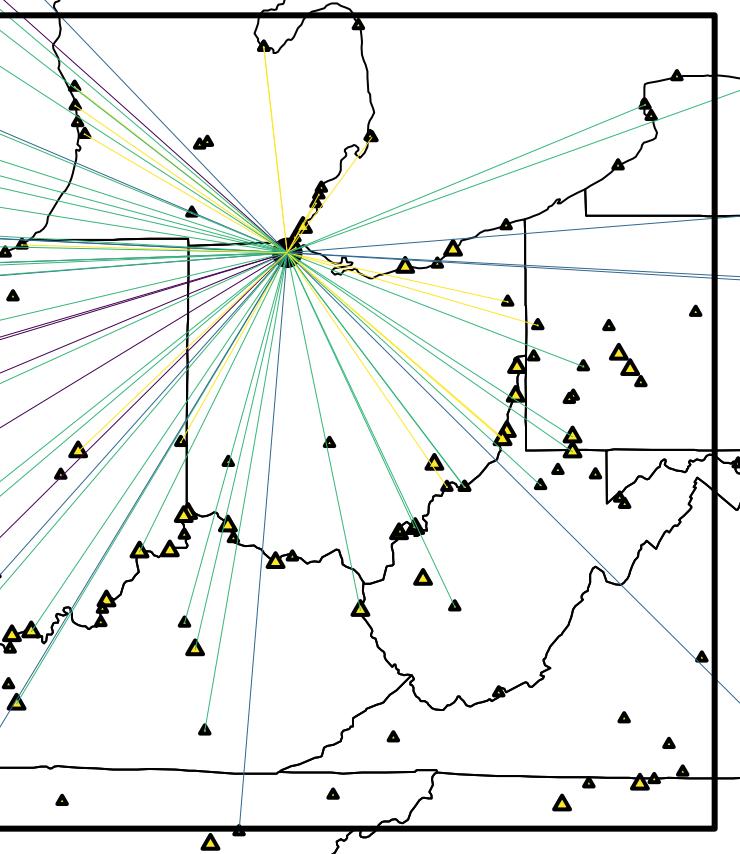
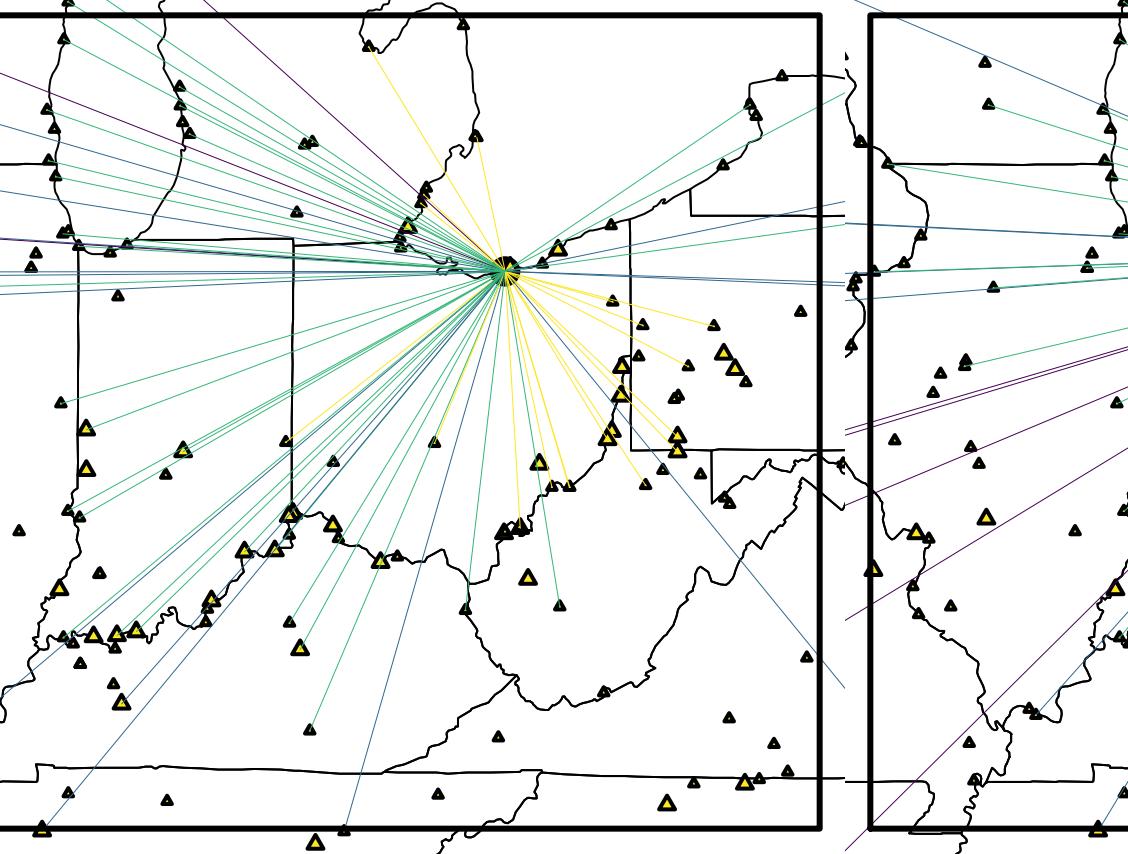
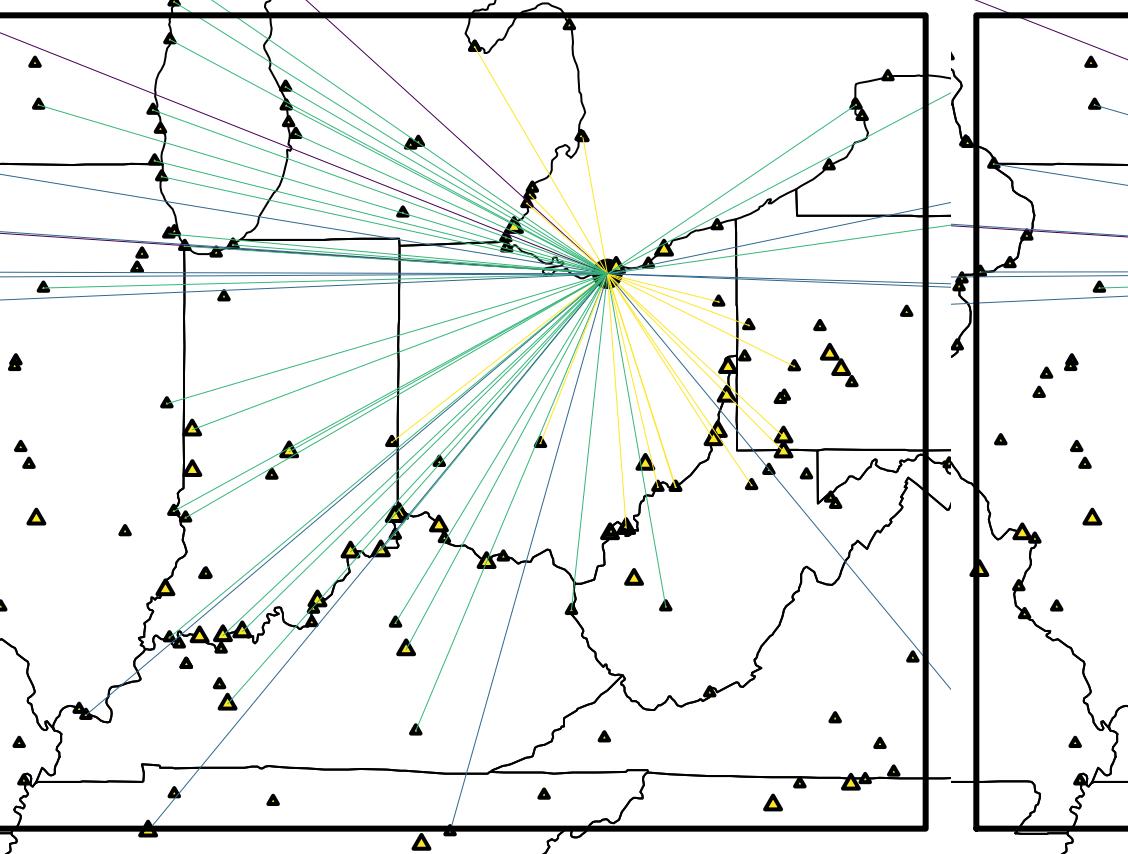
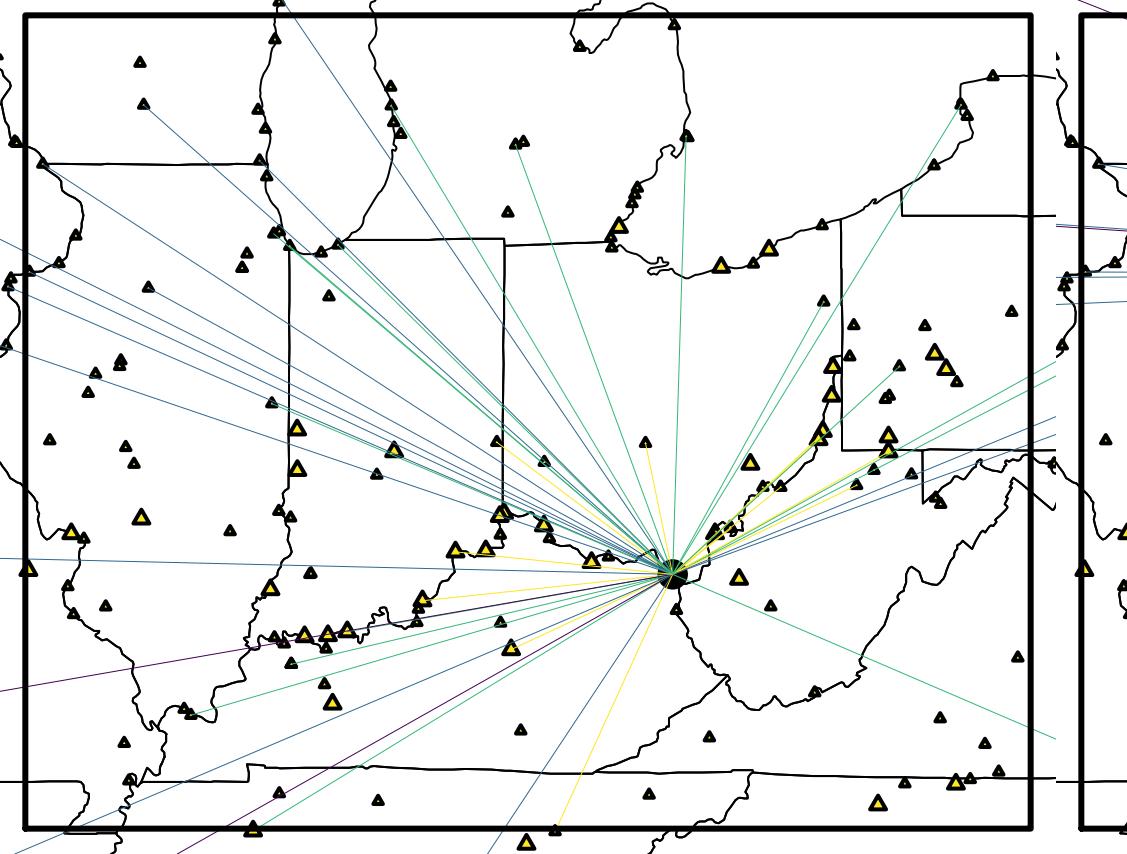
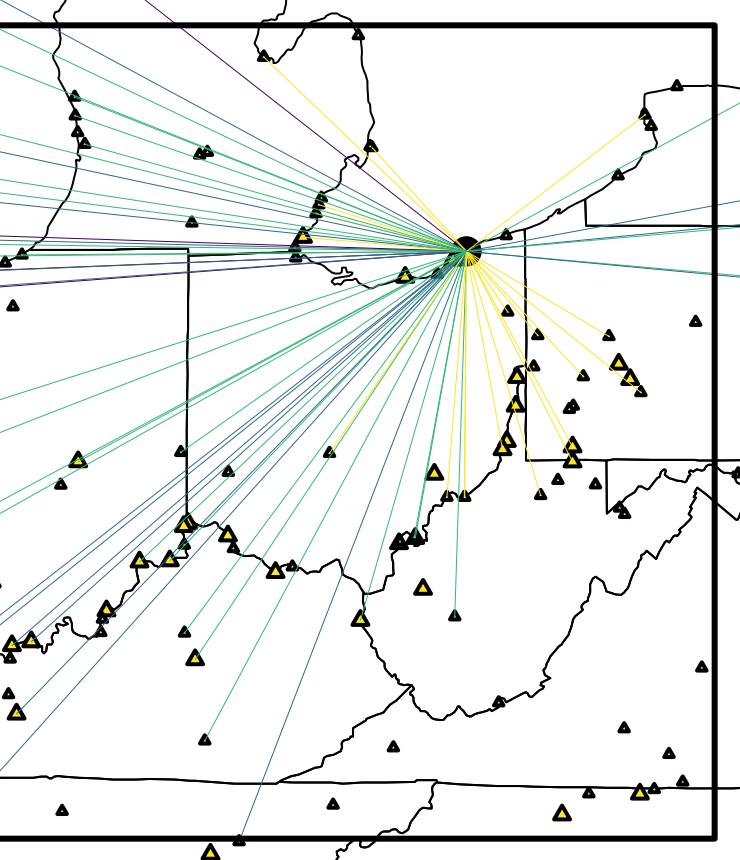
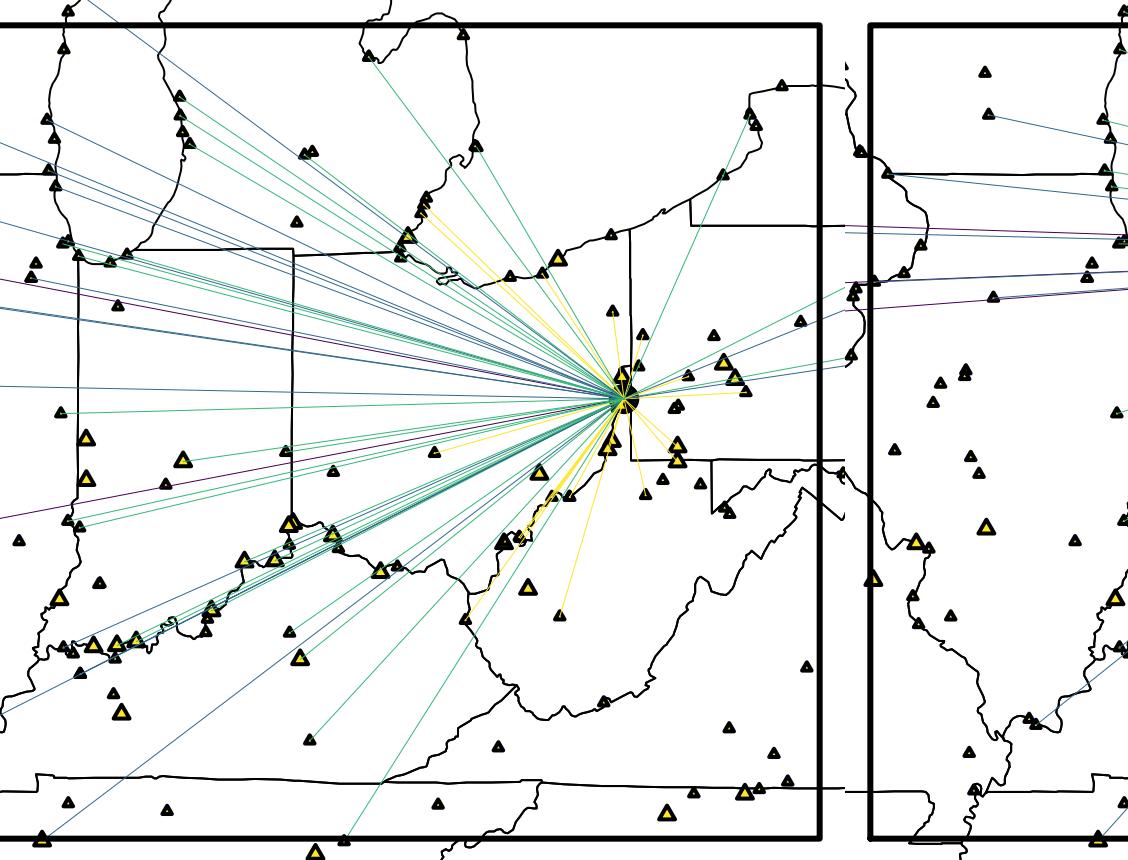
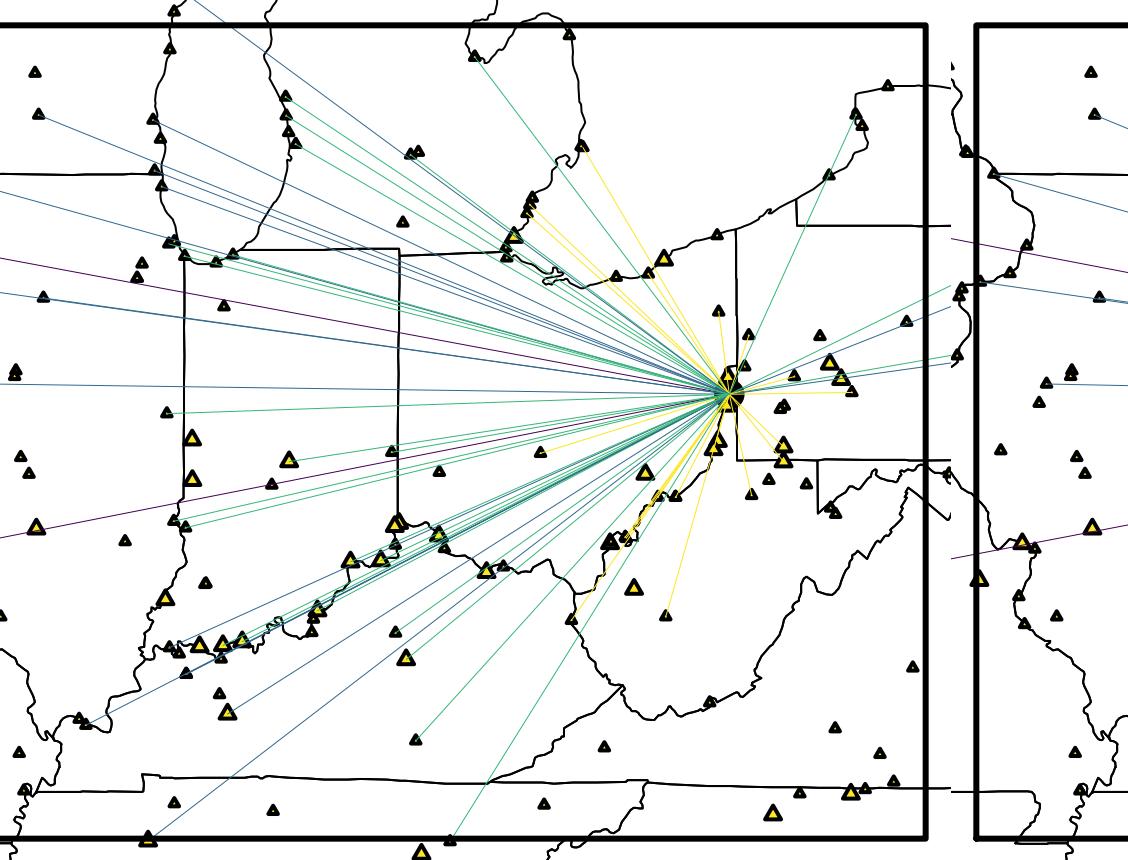
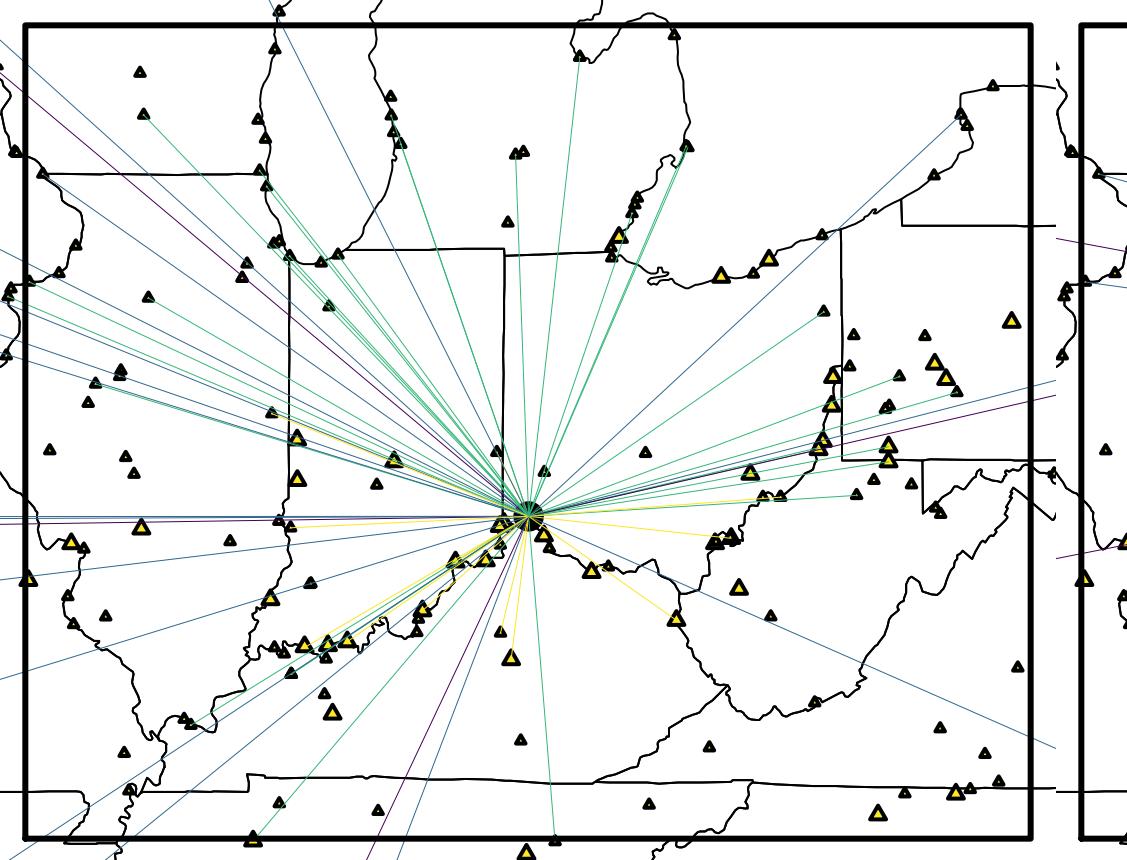
## Lag 3 edges

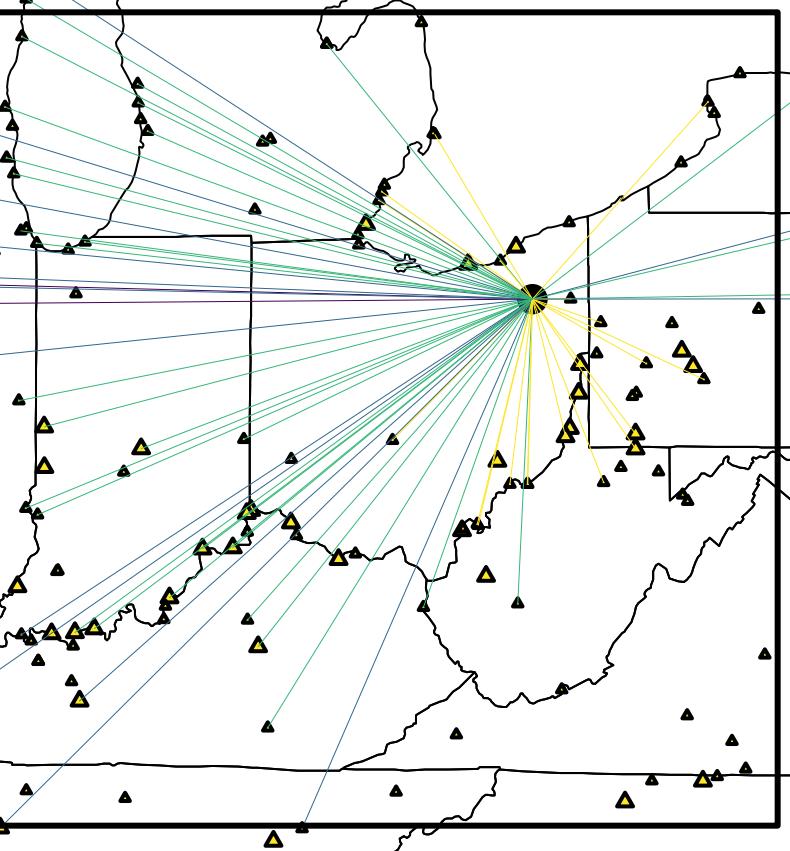
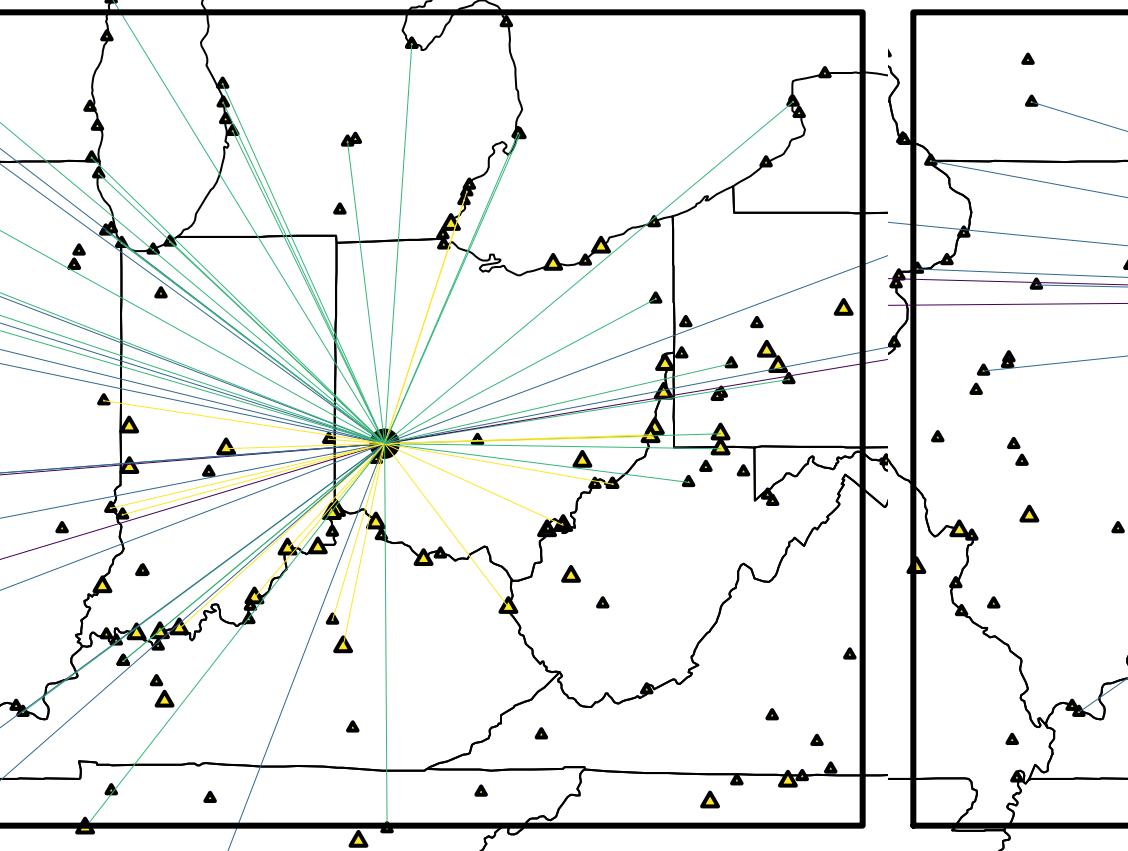
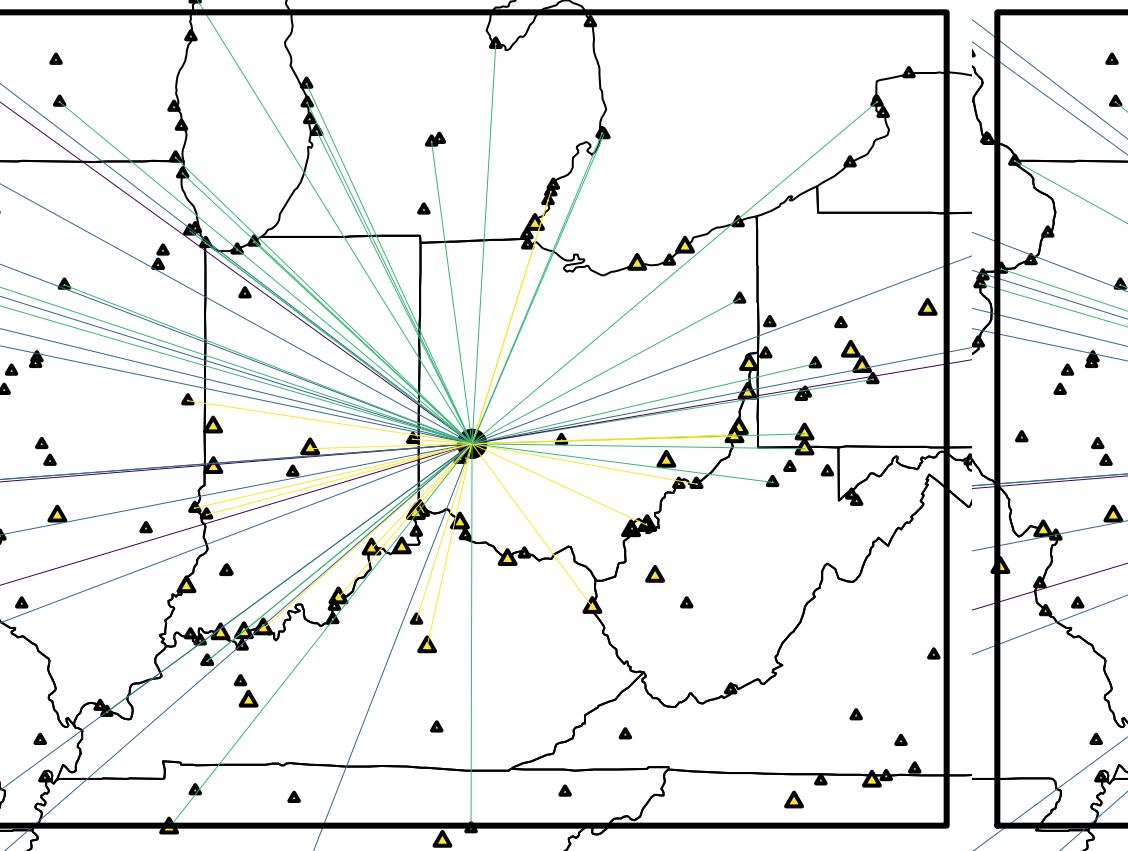
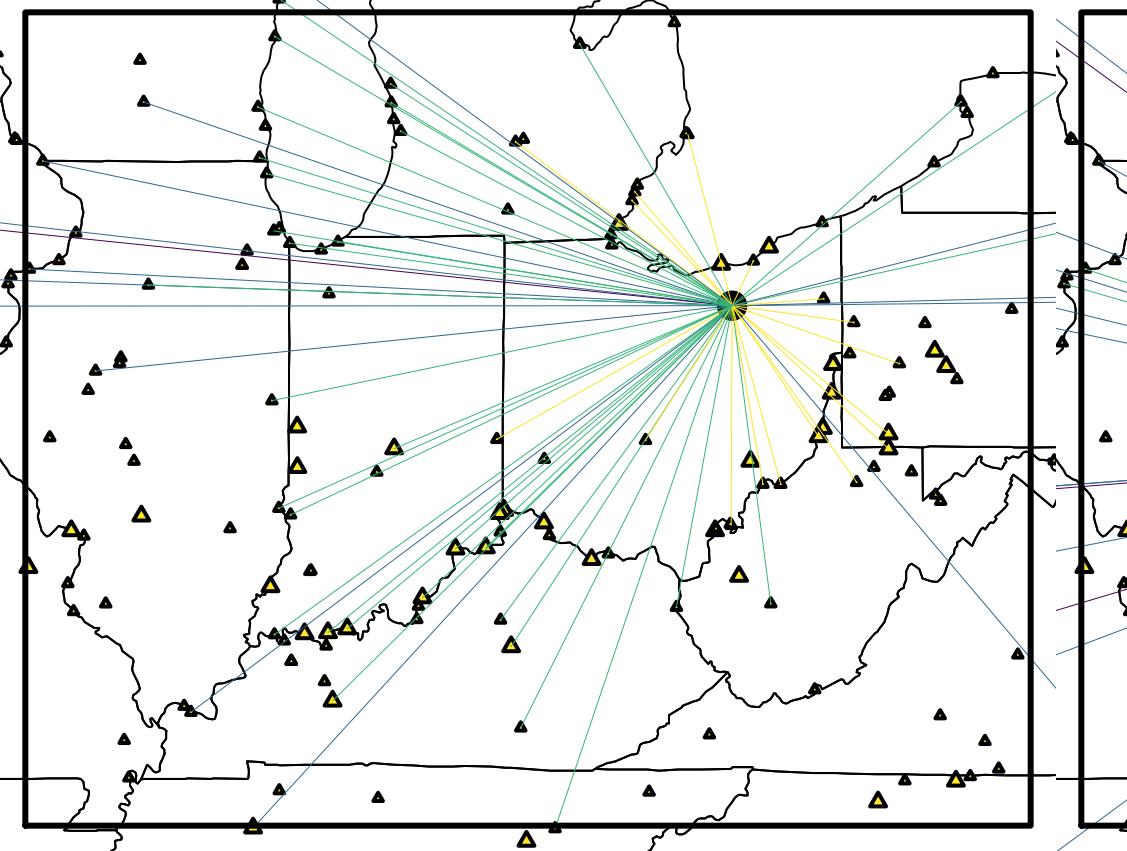
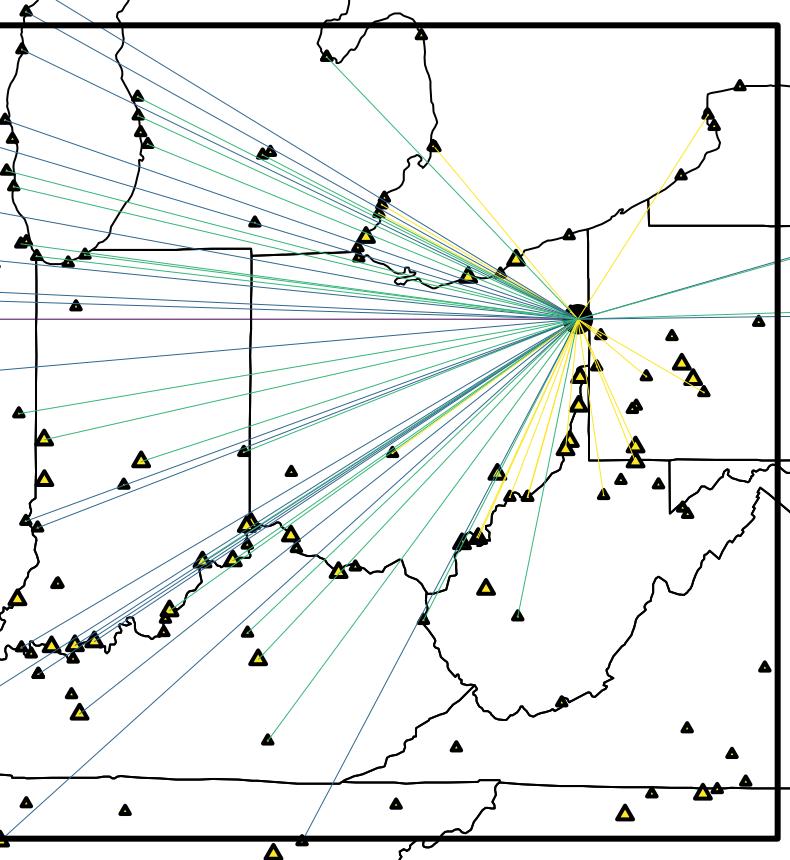
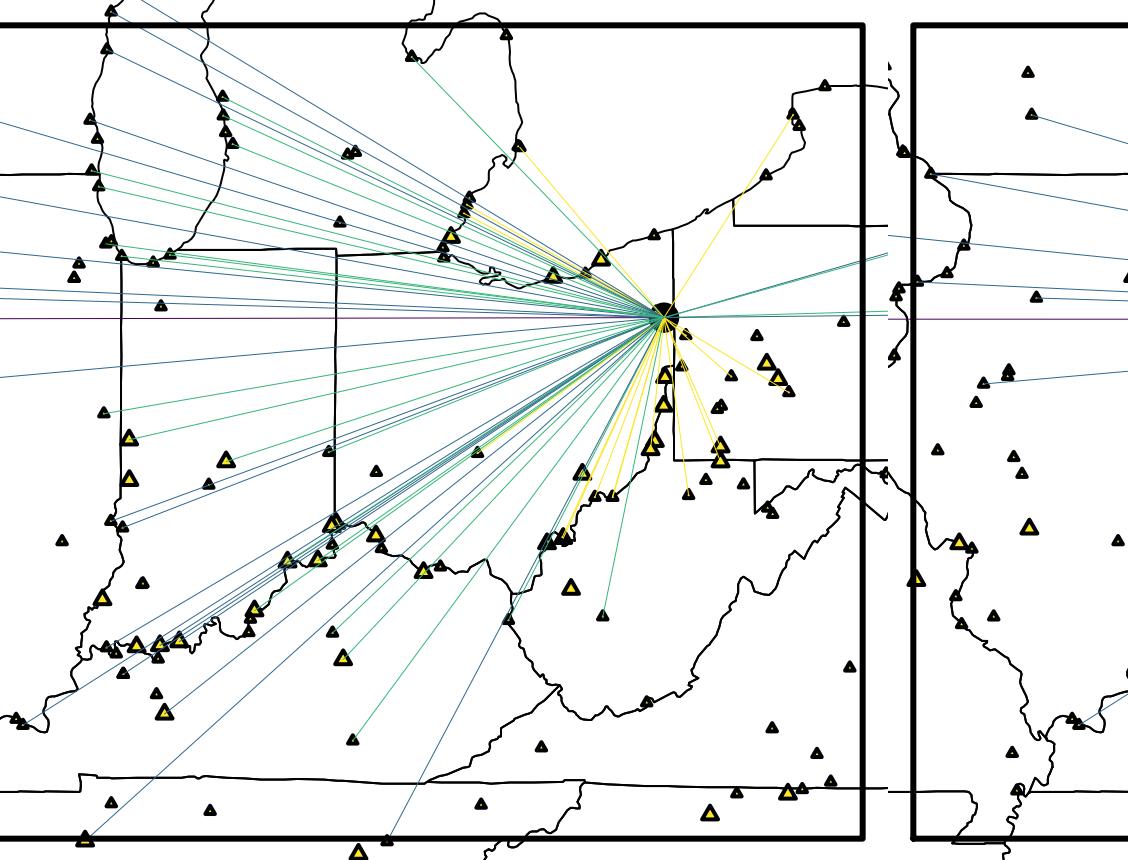
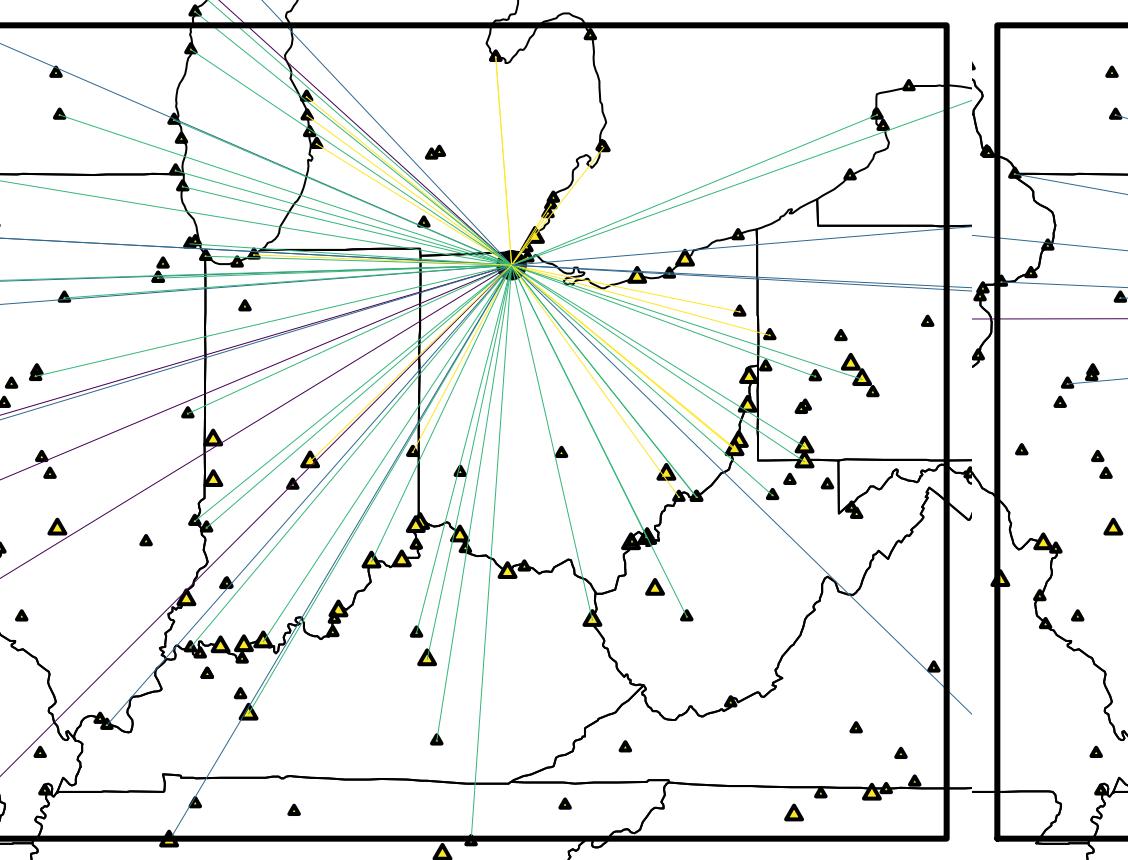
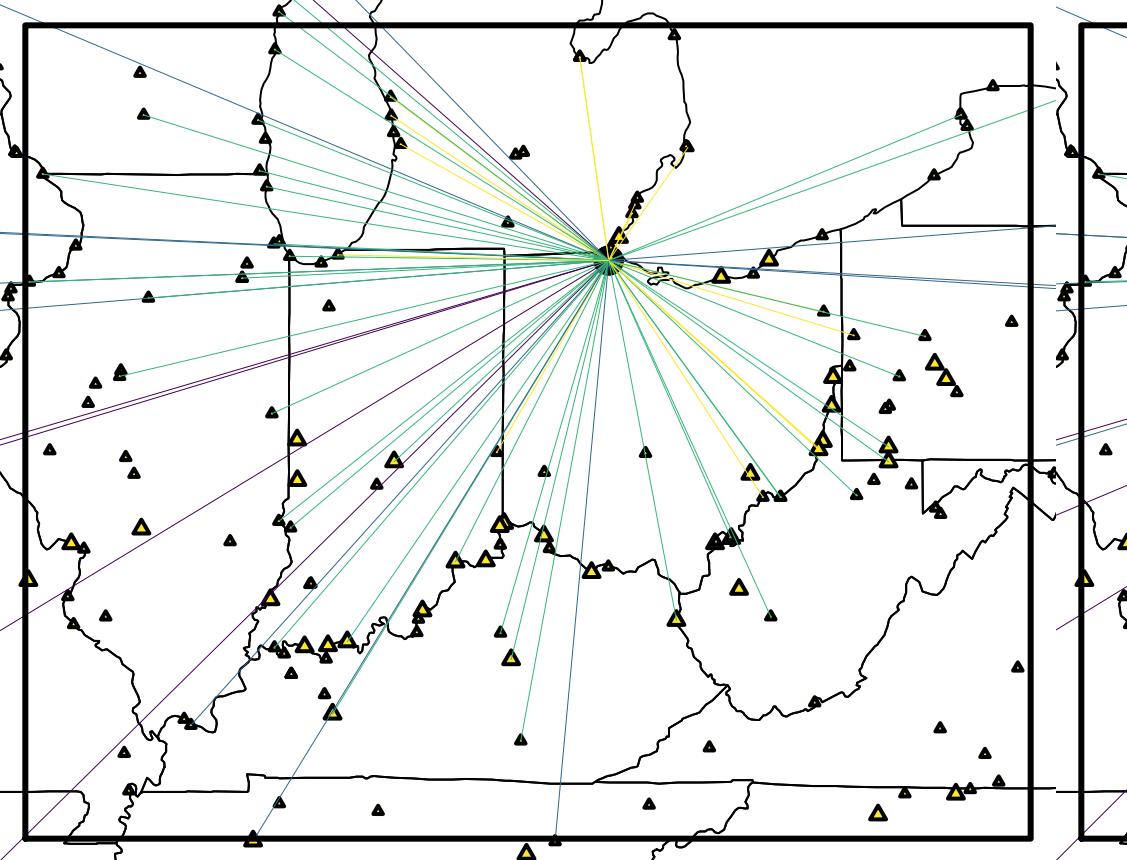


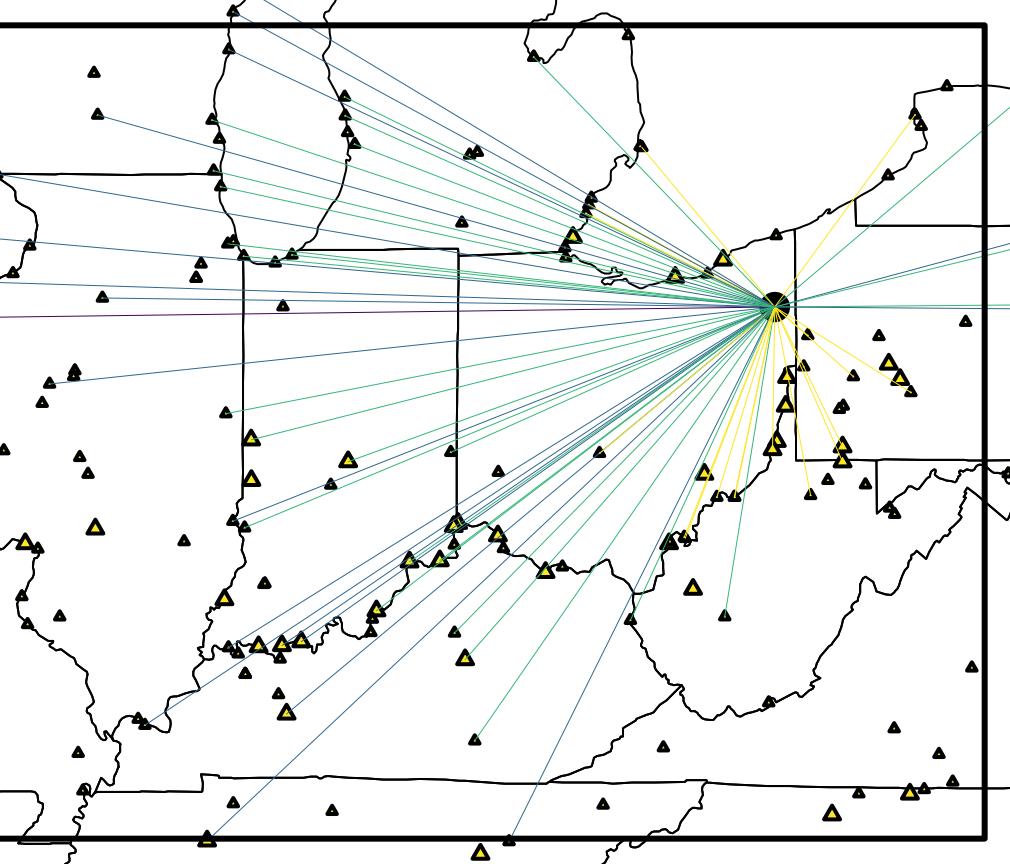
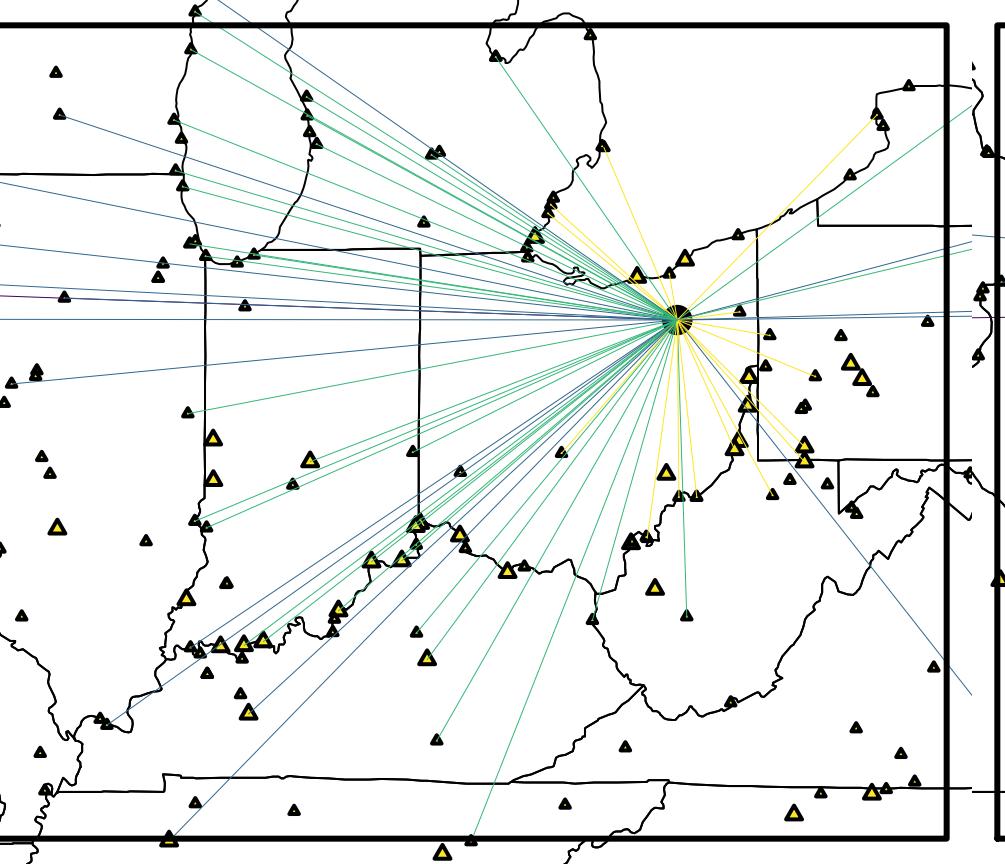
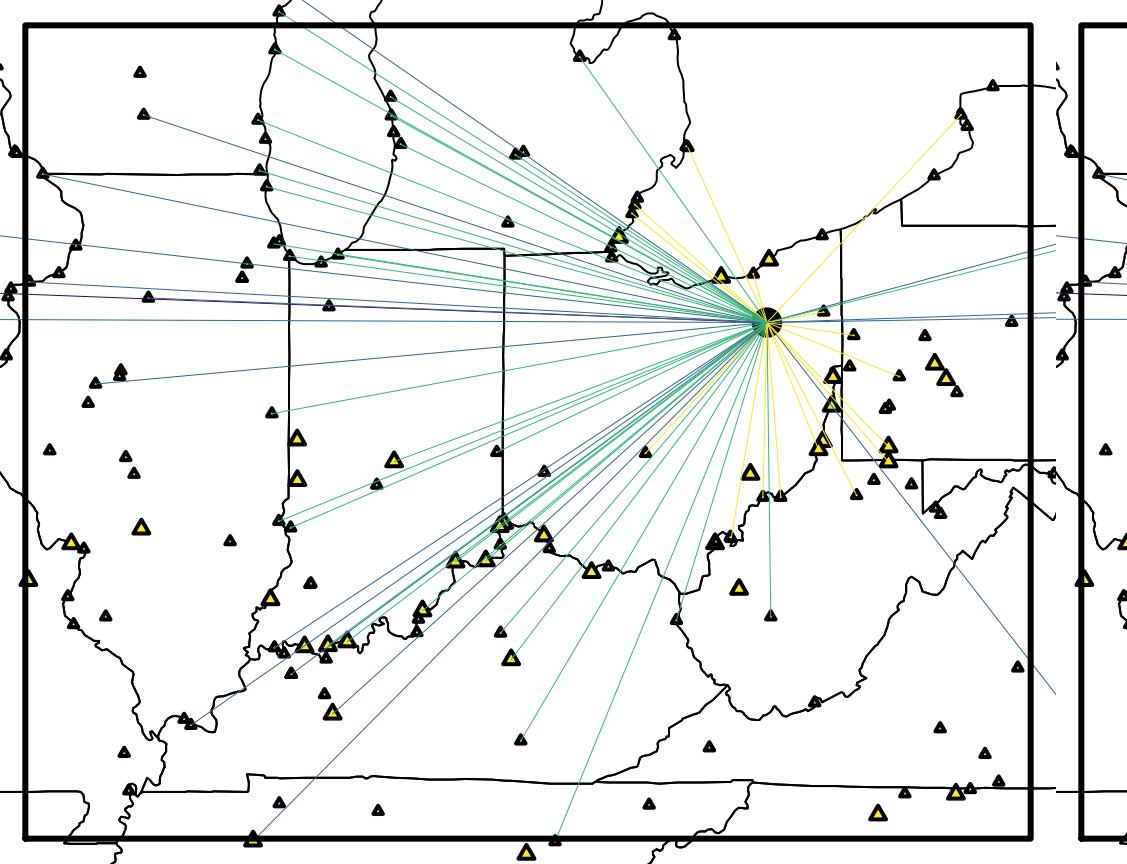
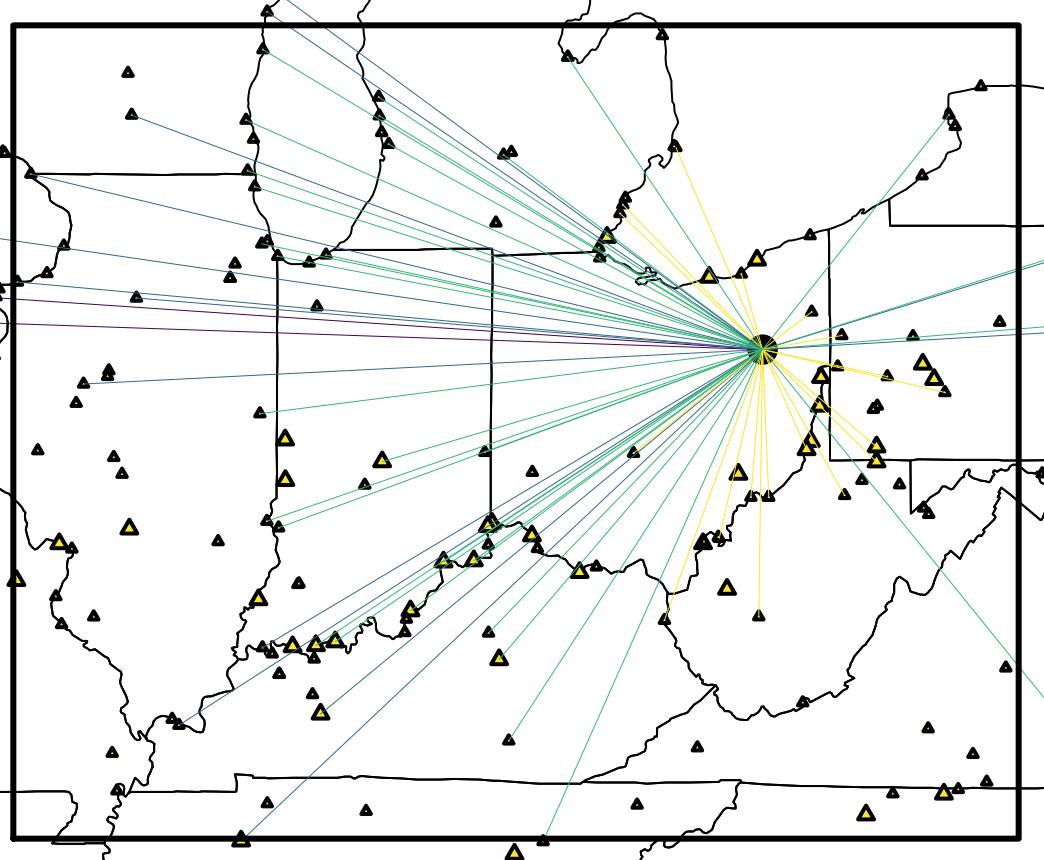
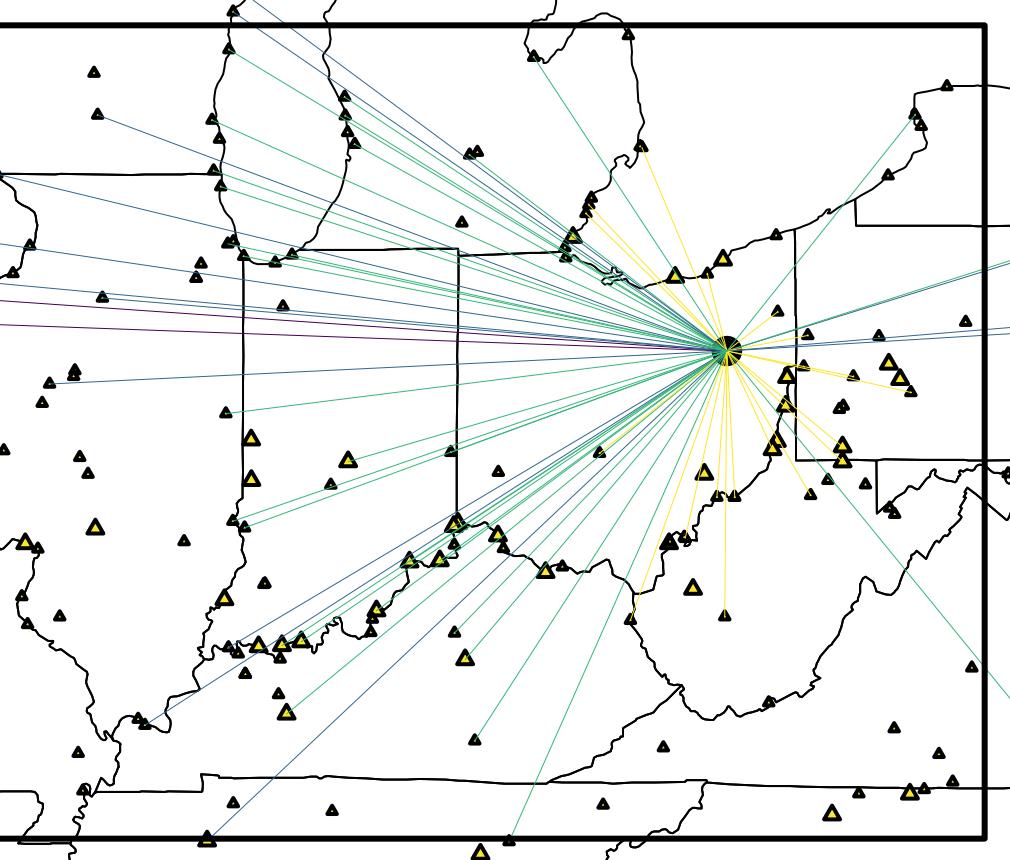
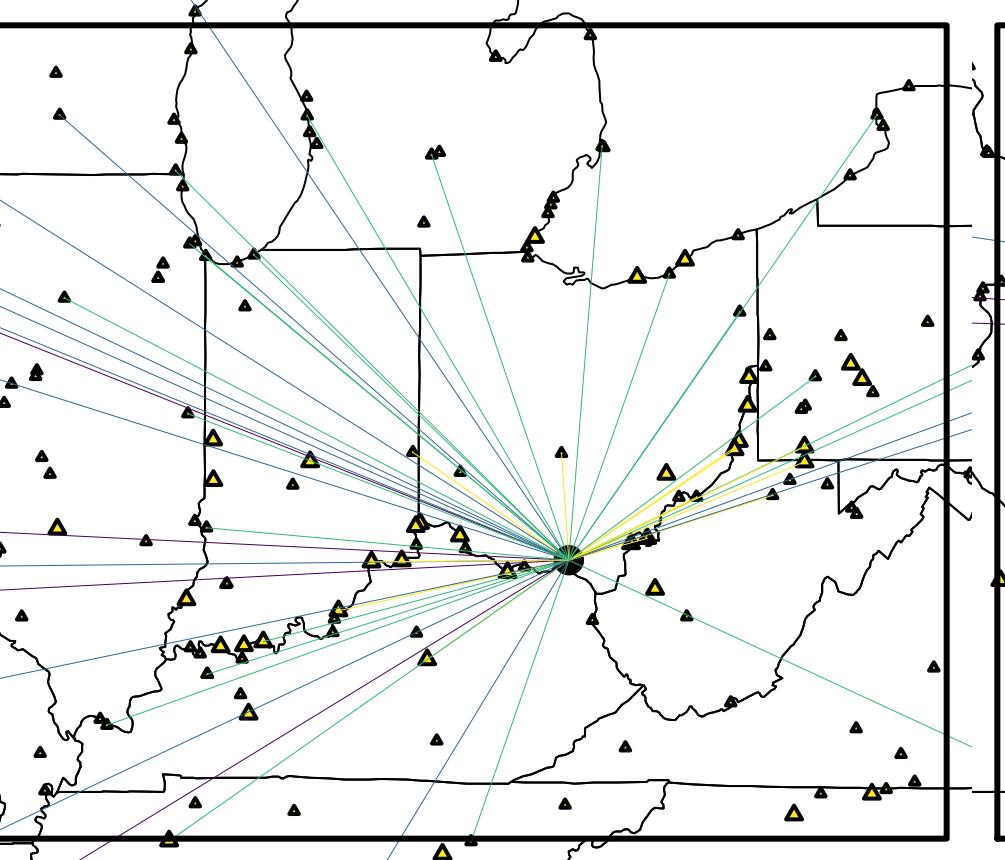
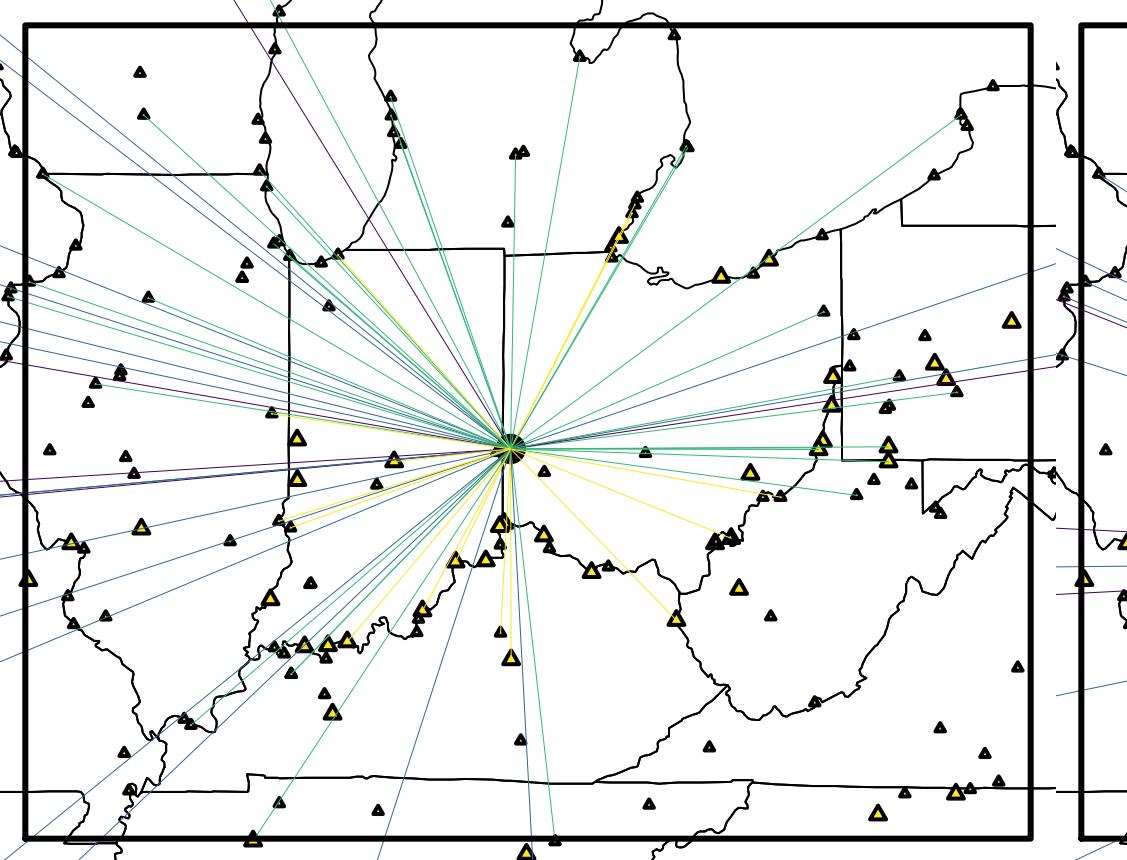


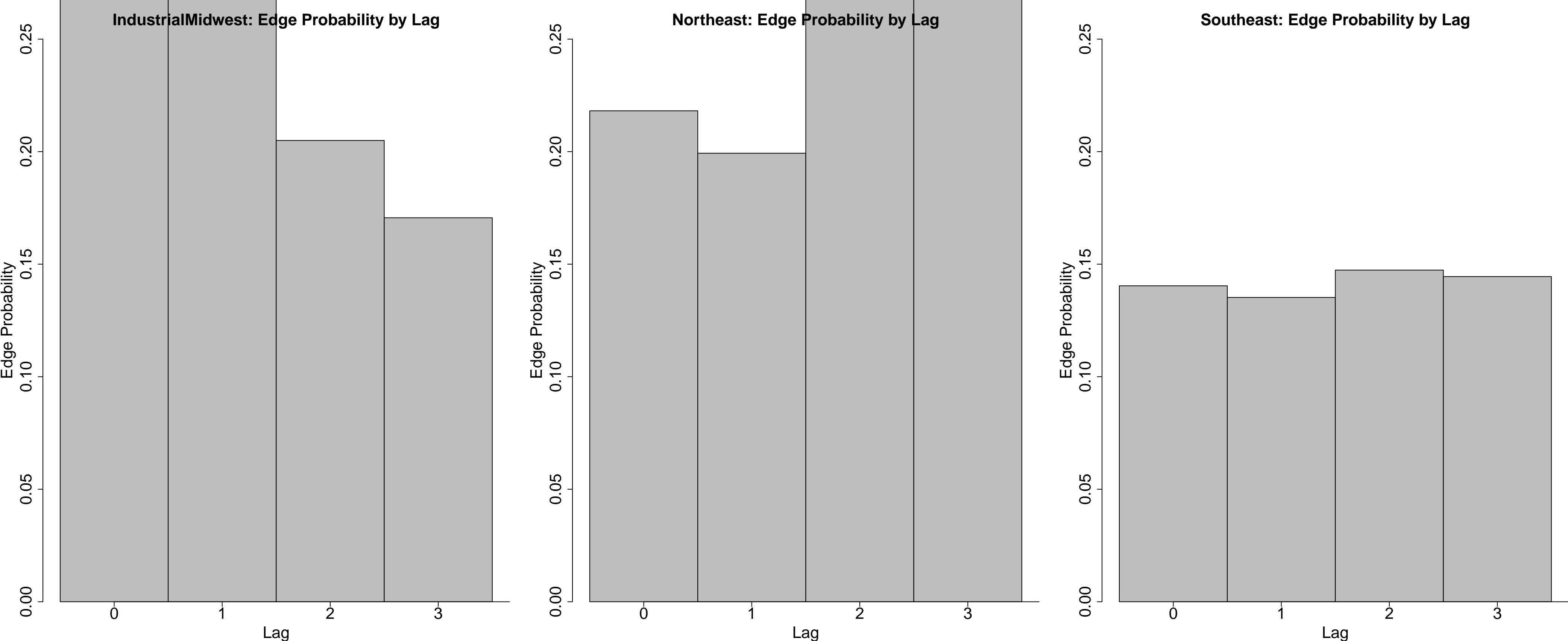




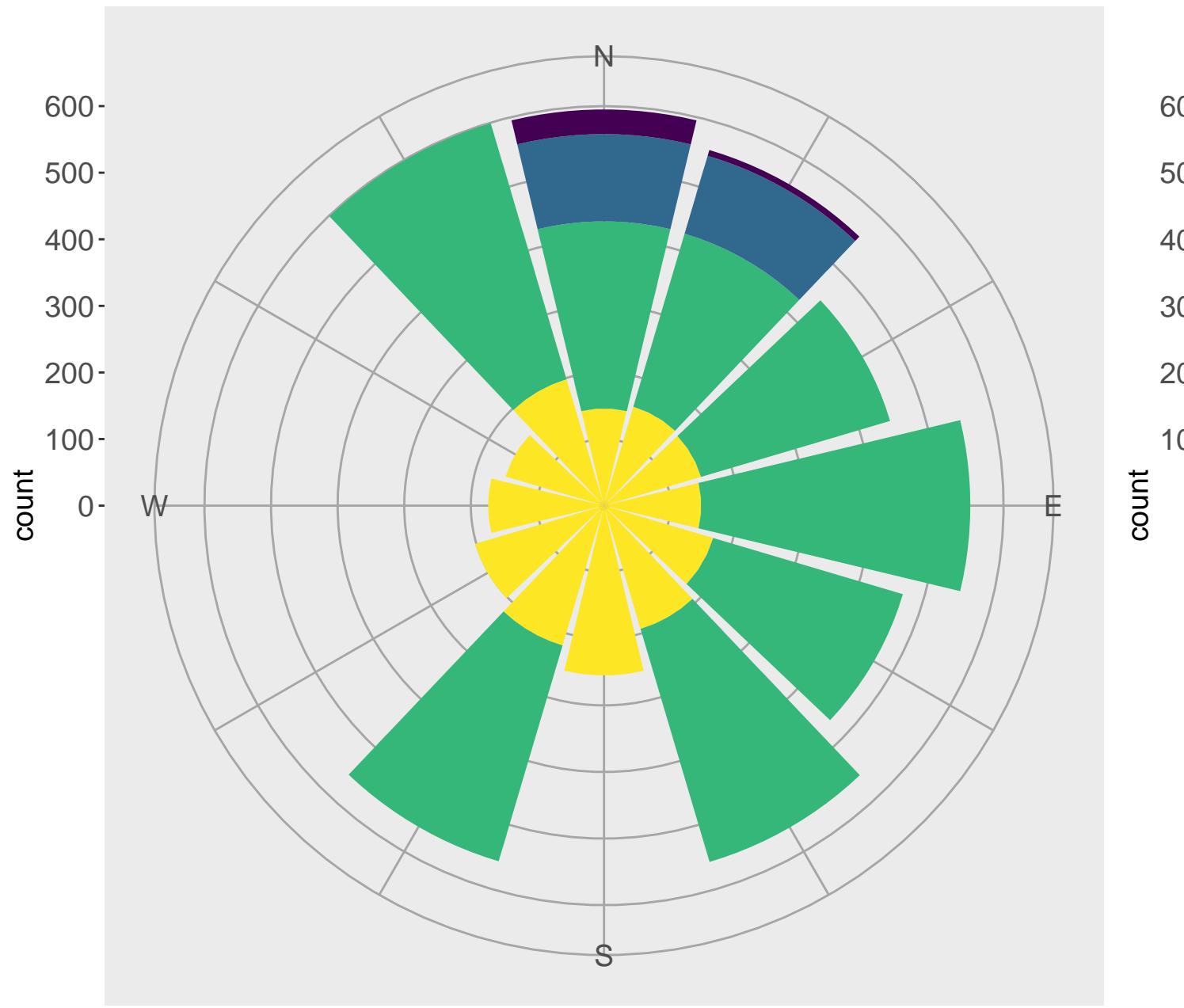




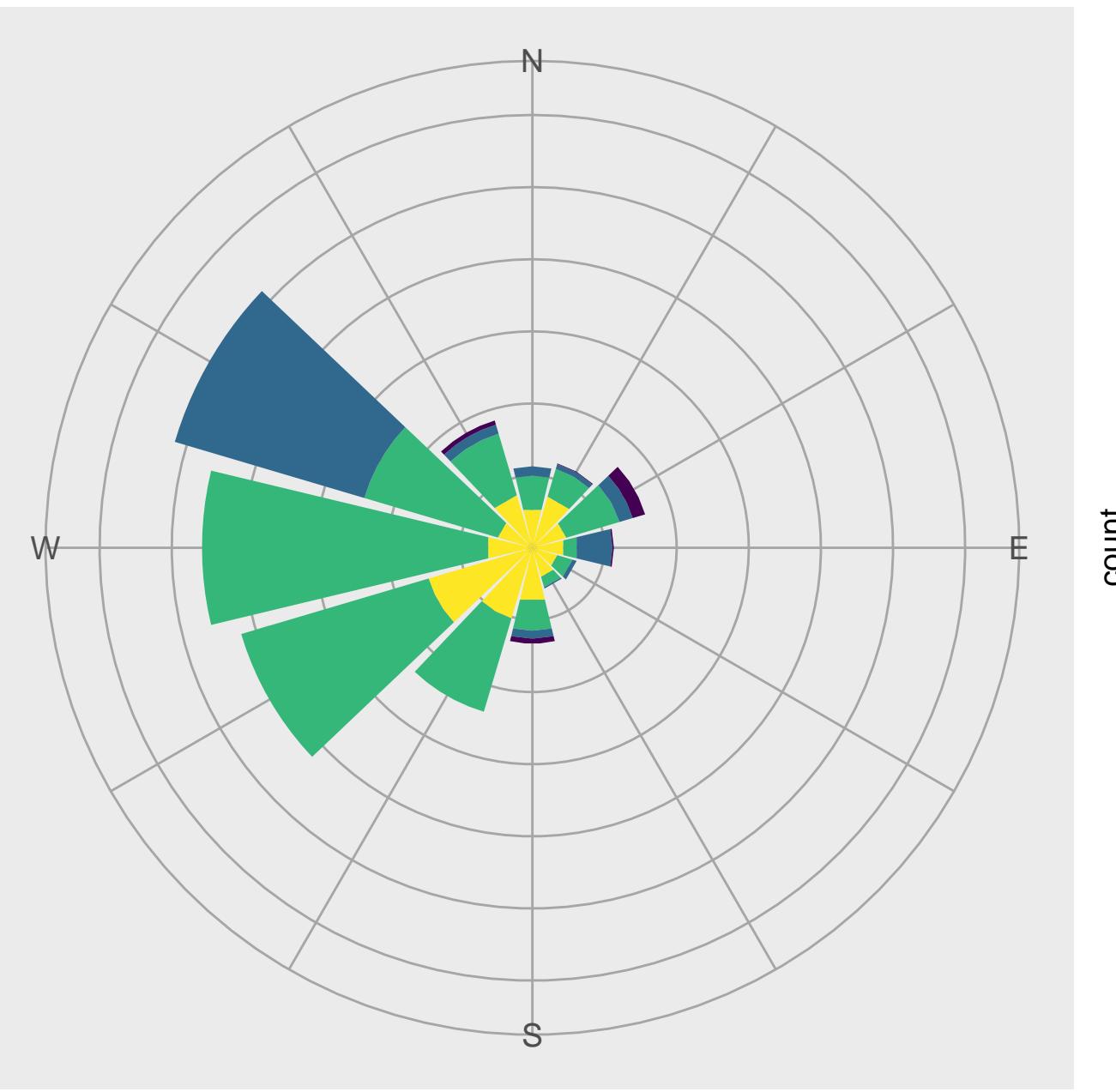




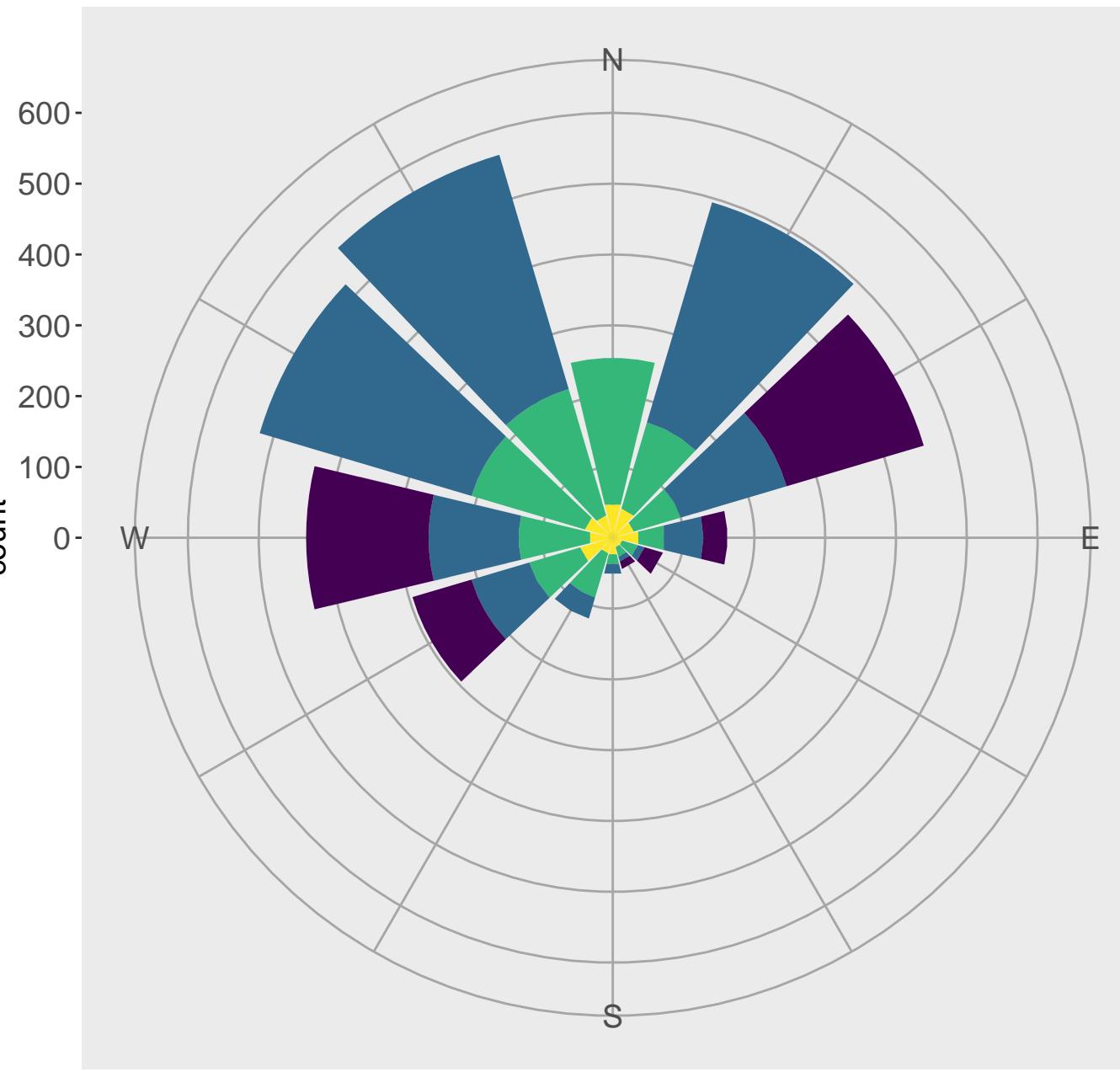
**Edge counts by distance/direction to source  
IndustrialMidwest receptors**



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



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



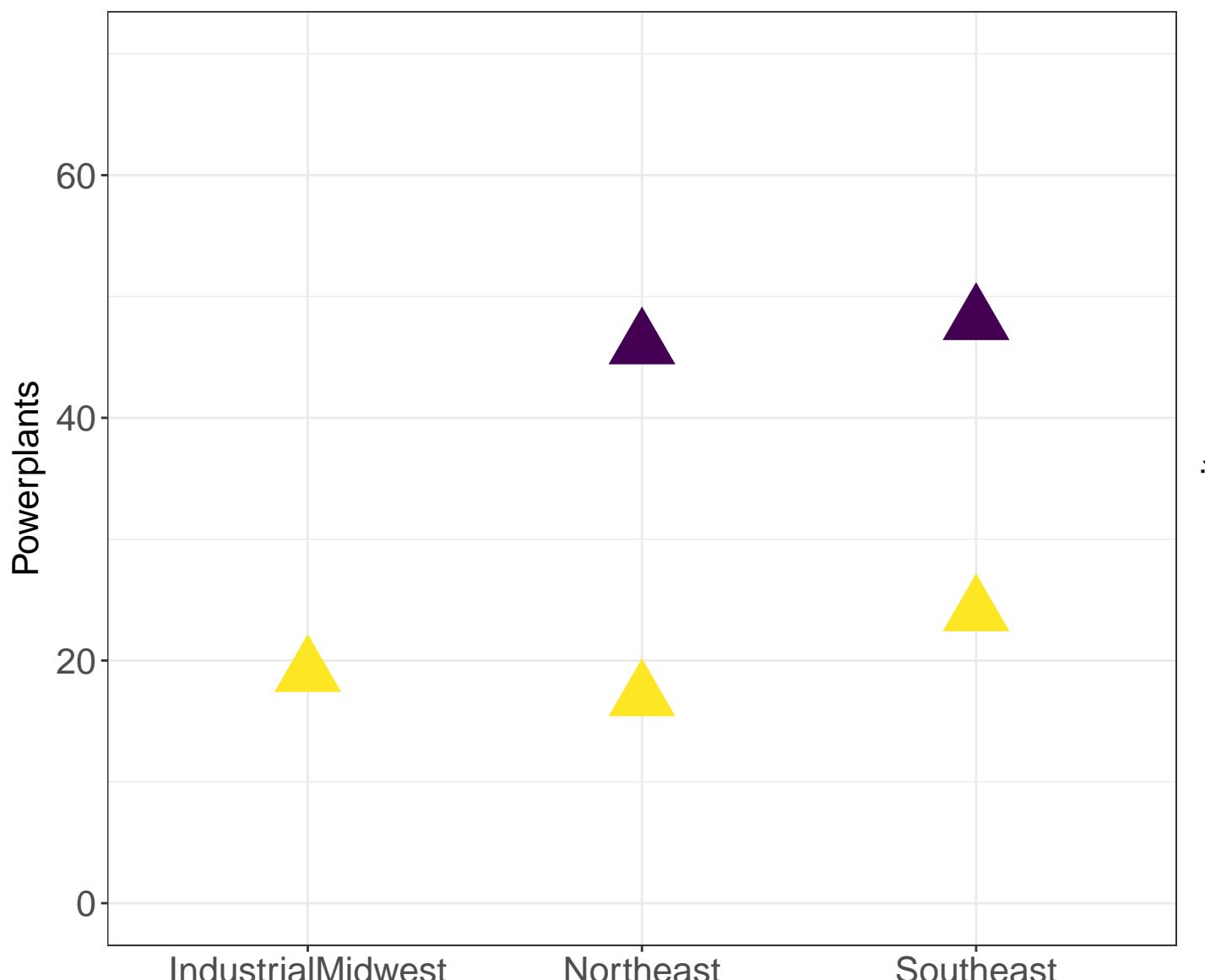
Distance to Source (km)    750–1000    500–750    250–500    0–250

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

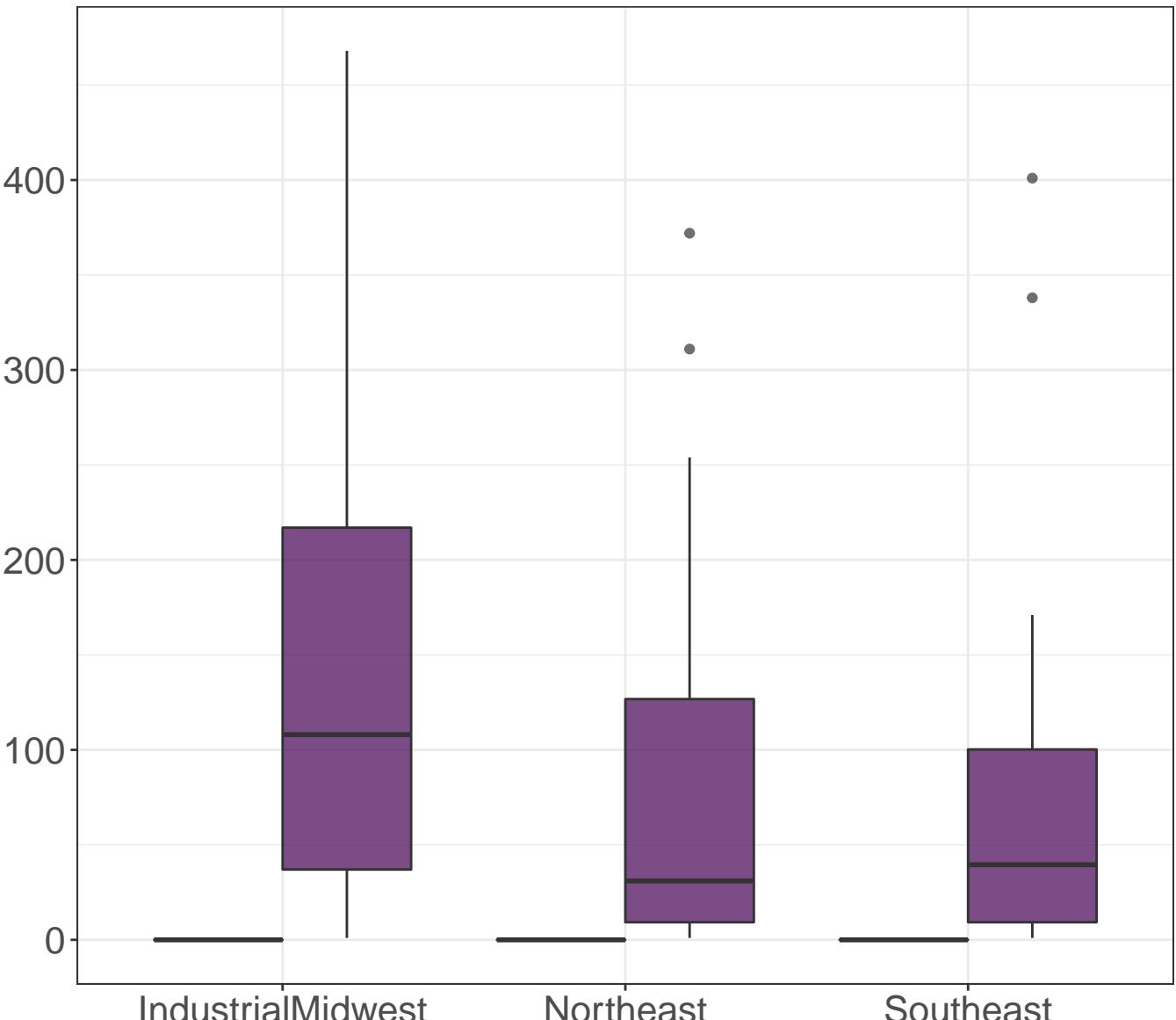
Distance to Source (km)    750–1000    500–750    250–500    0–250

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

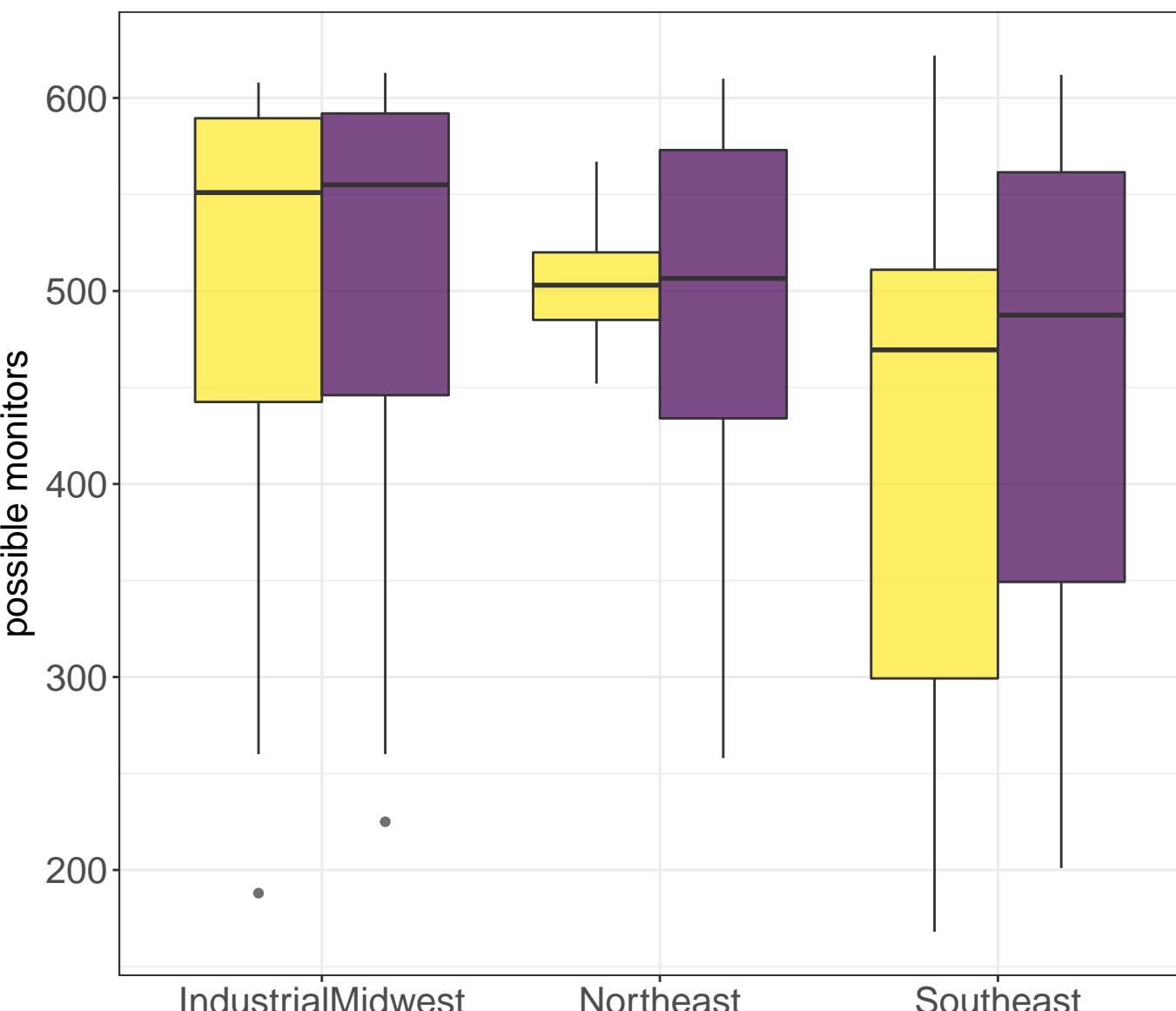
Number of powerplants



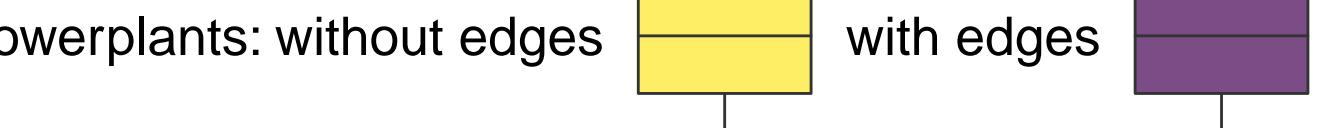
Number of linked monitors



Number of possible linked monitors

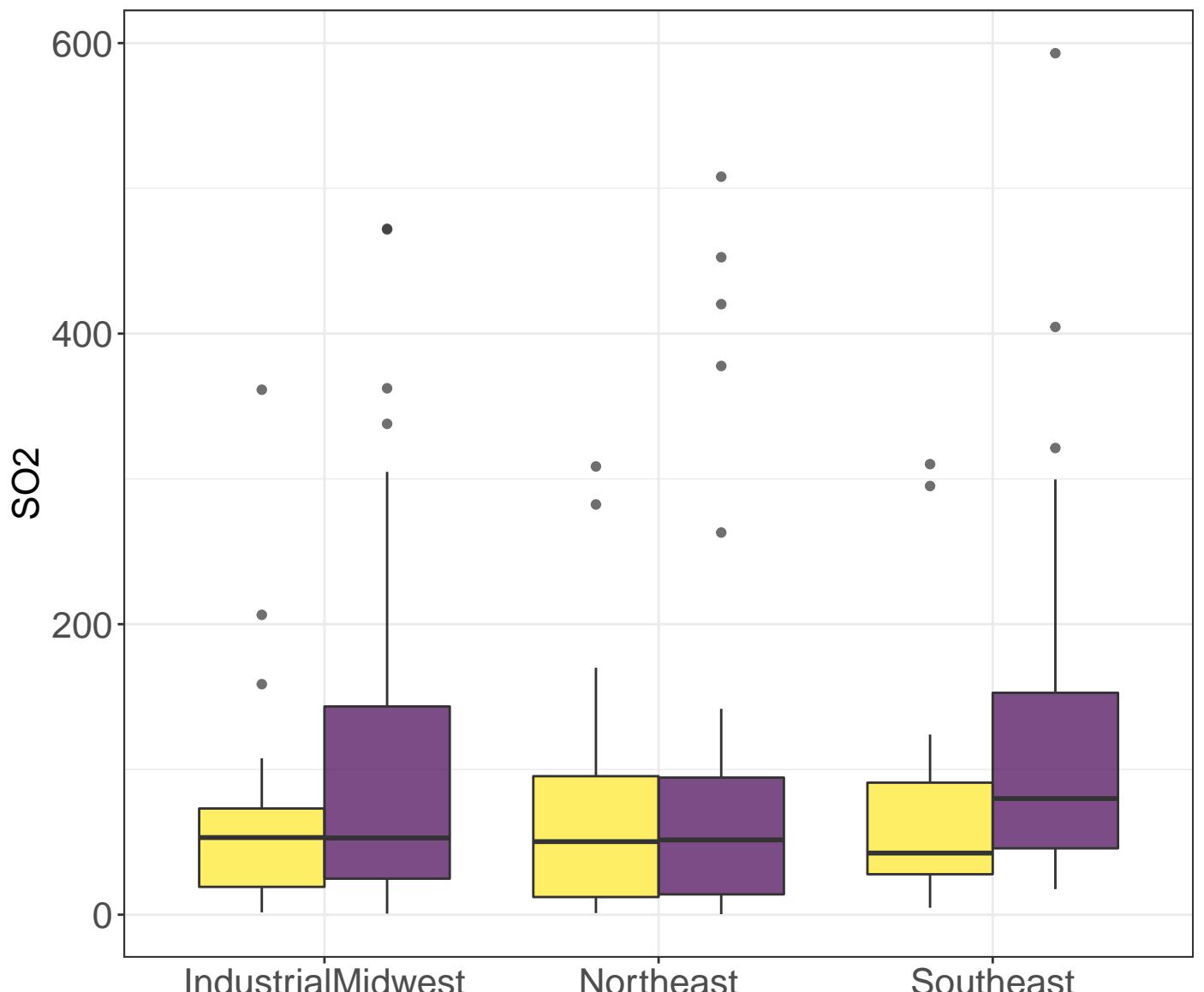


Powerplants: without edges

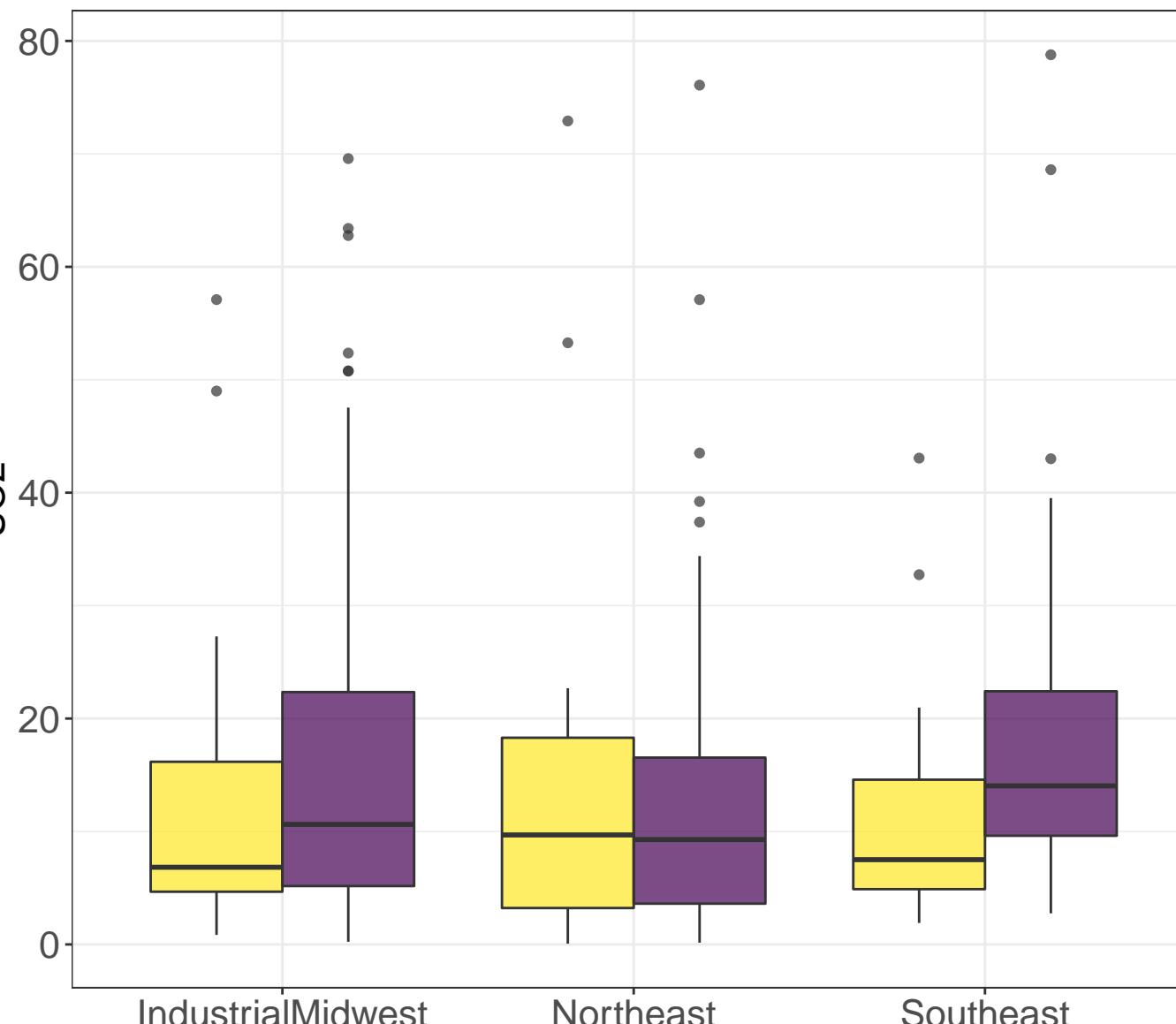


# Why do some power plants have linked monitors and others do not?

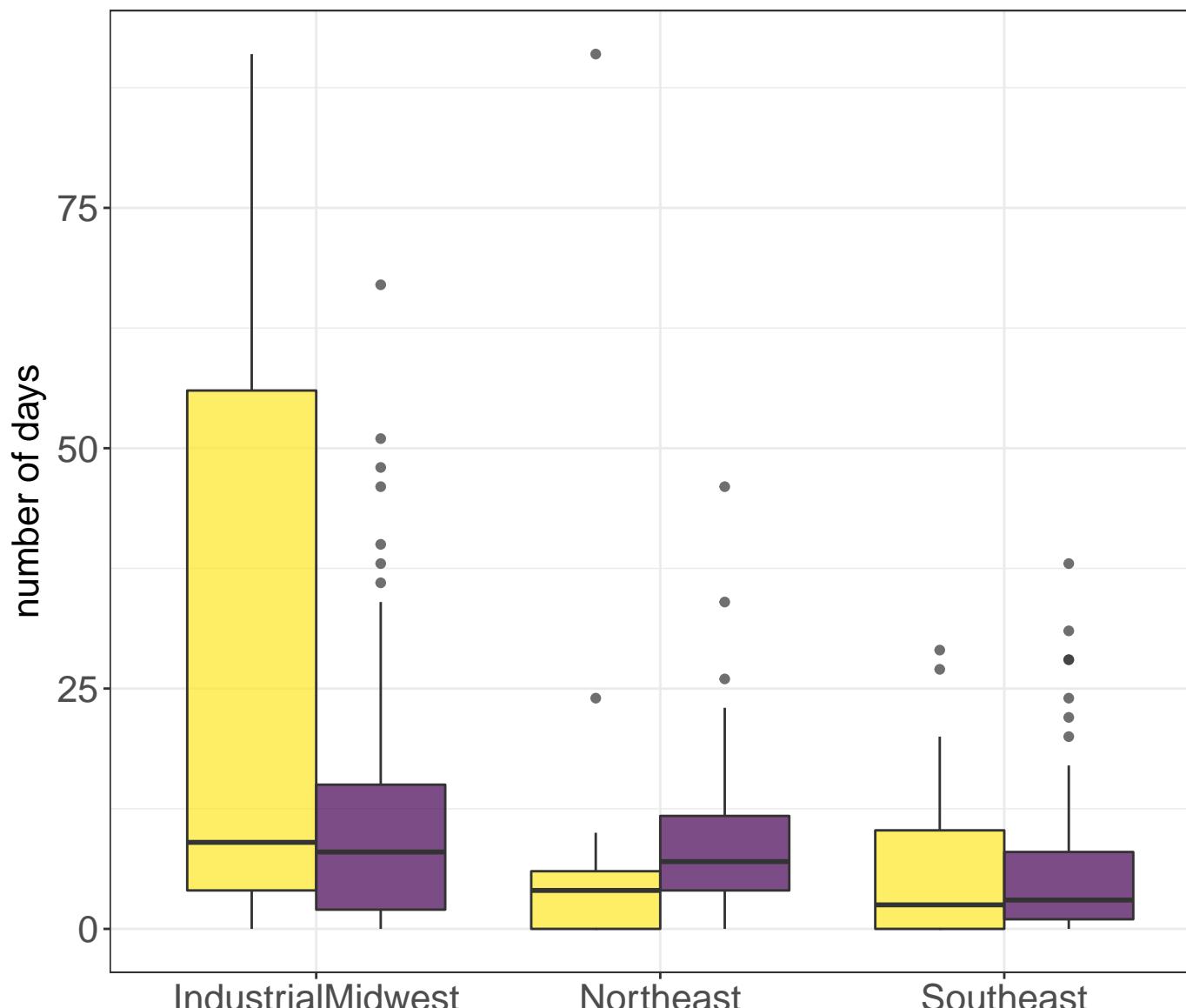
Average daily emissions



Standard deviation in daily emissions



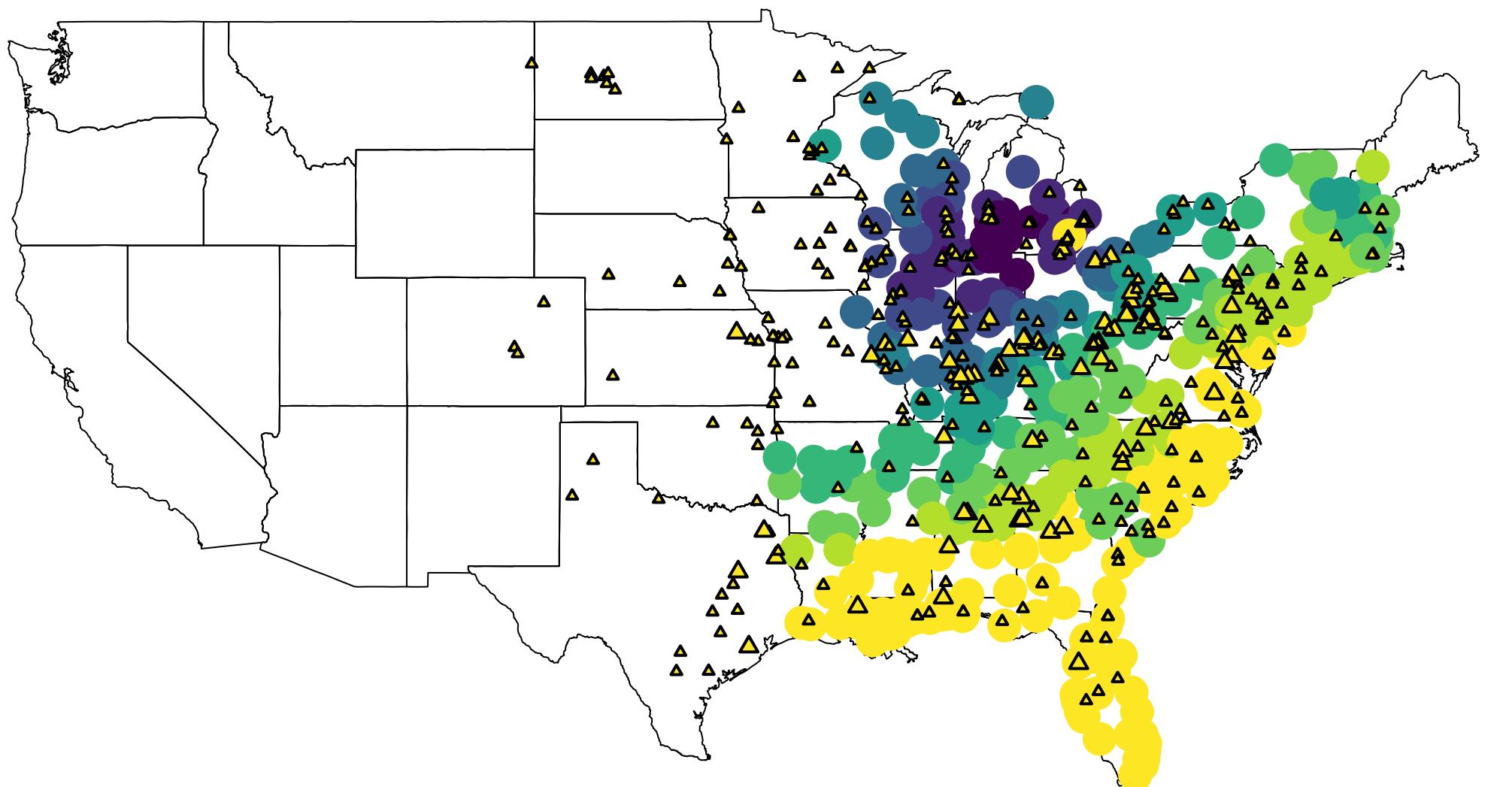
Number of days (out of 91 total) with missing emissions data



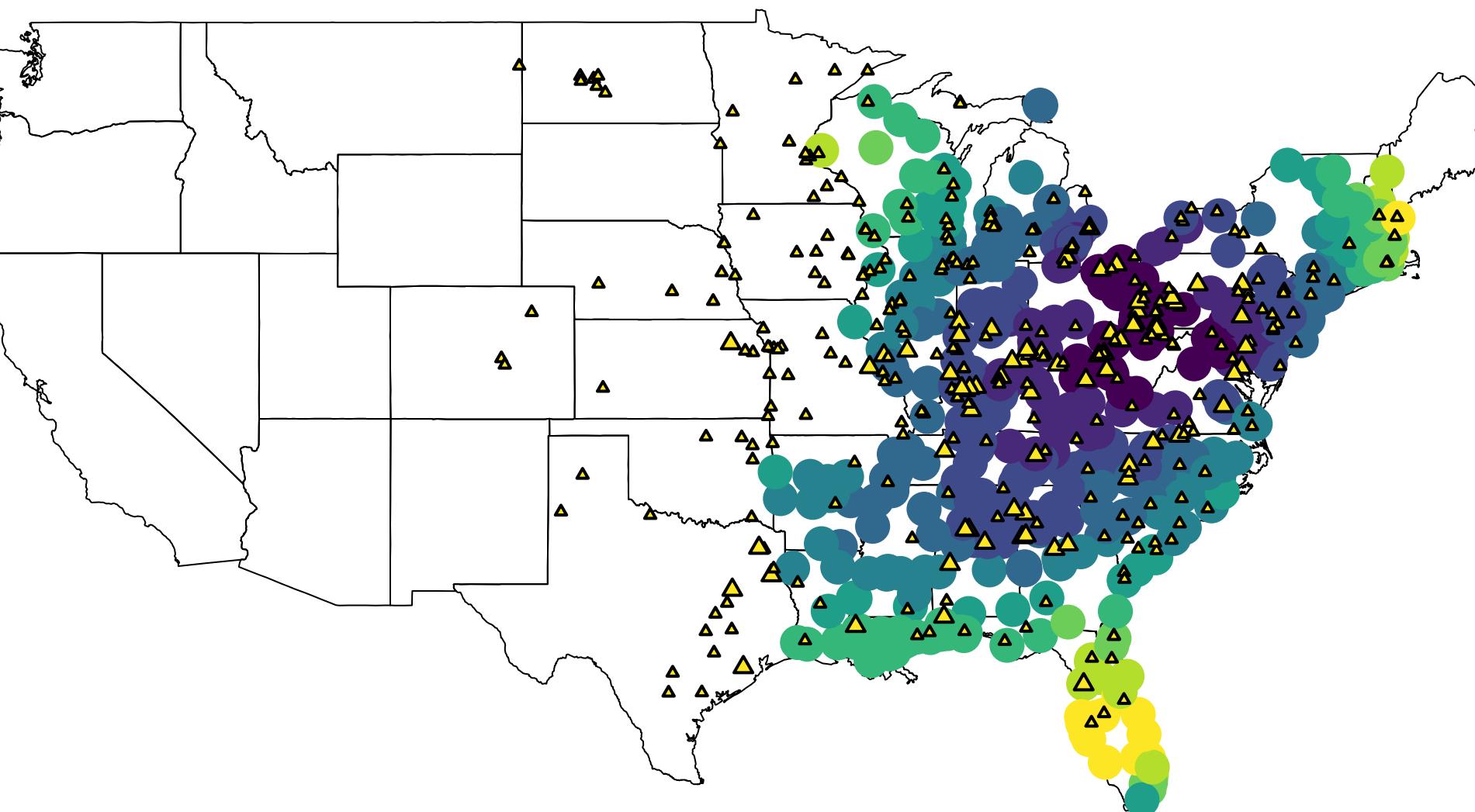
Powerplants: without edges



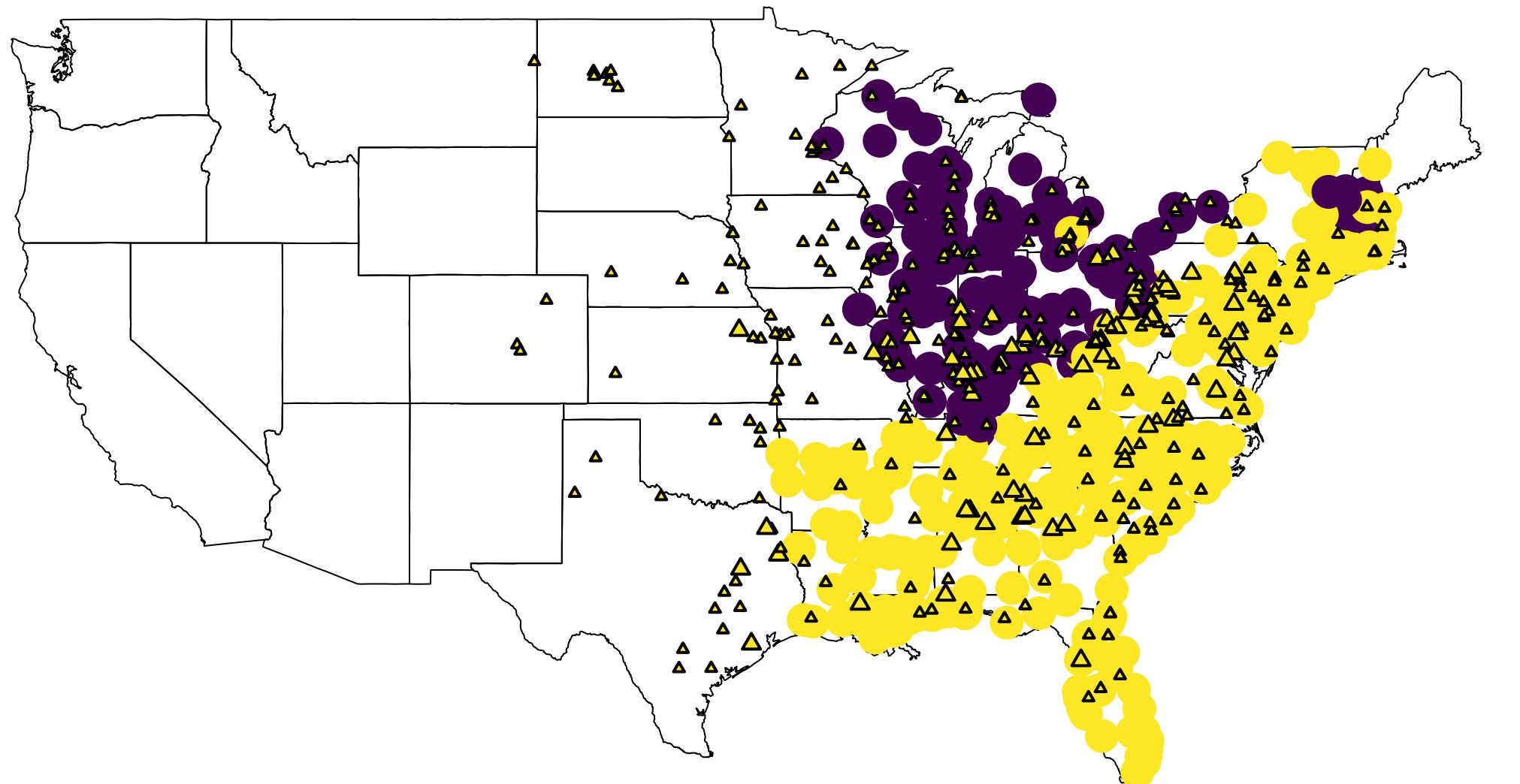
**Monitor exposure: sum of gams.coeff, summer\_distLag 2005**



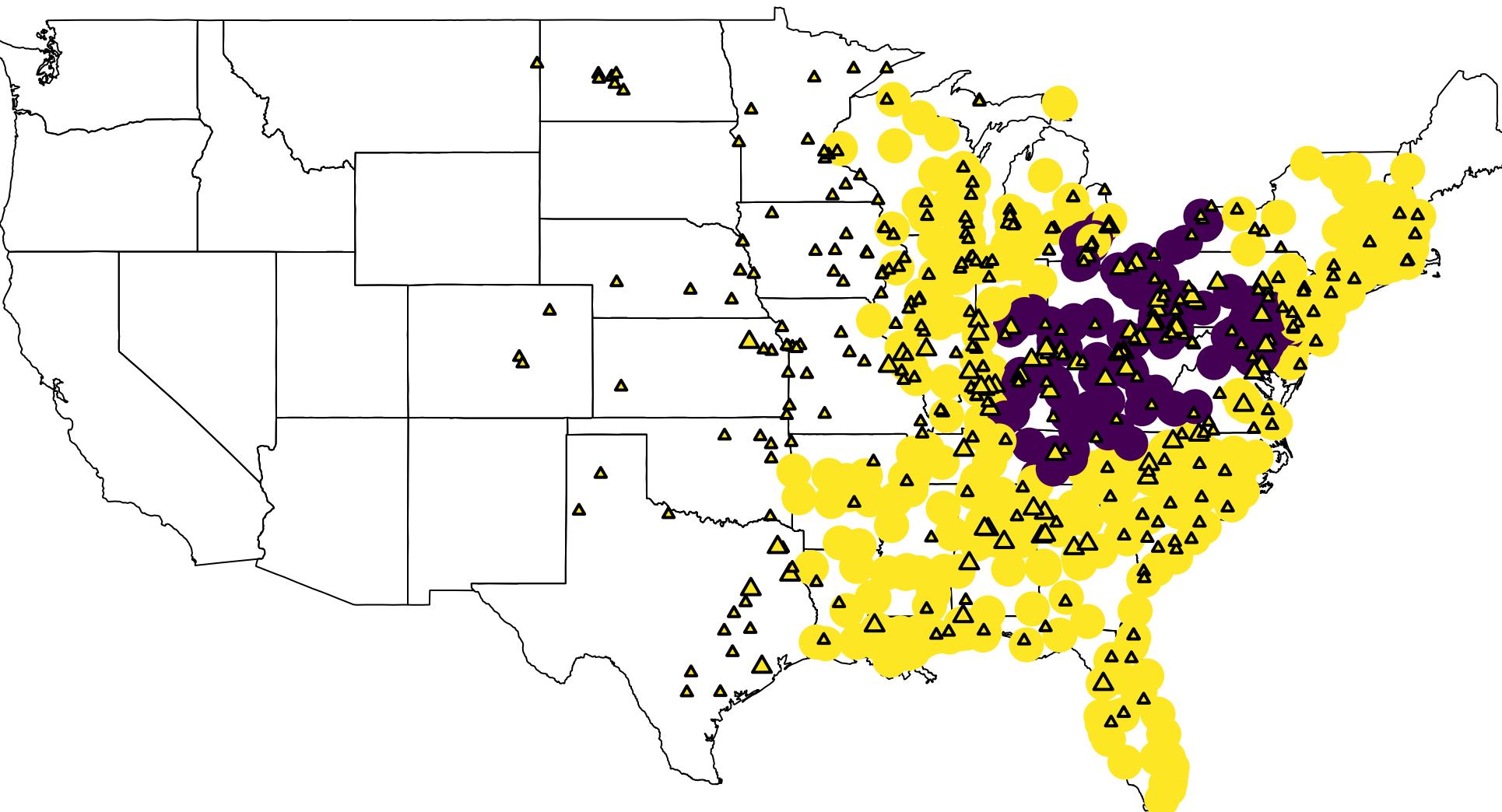
**Monitor exposure: avgPM, decomposed75 summer\_distLag 2005**



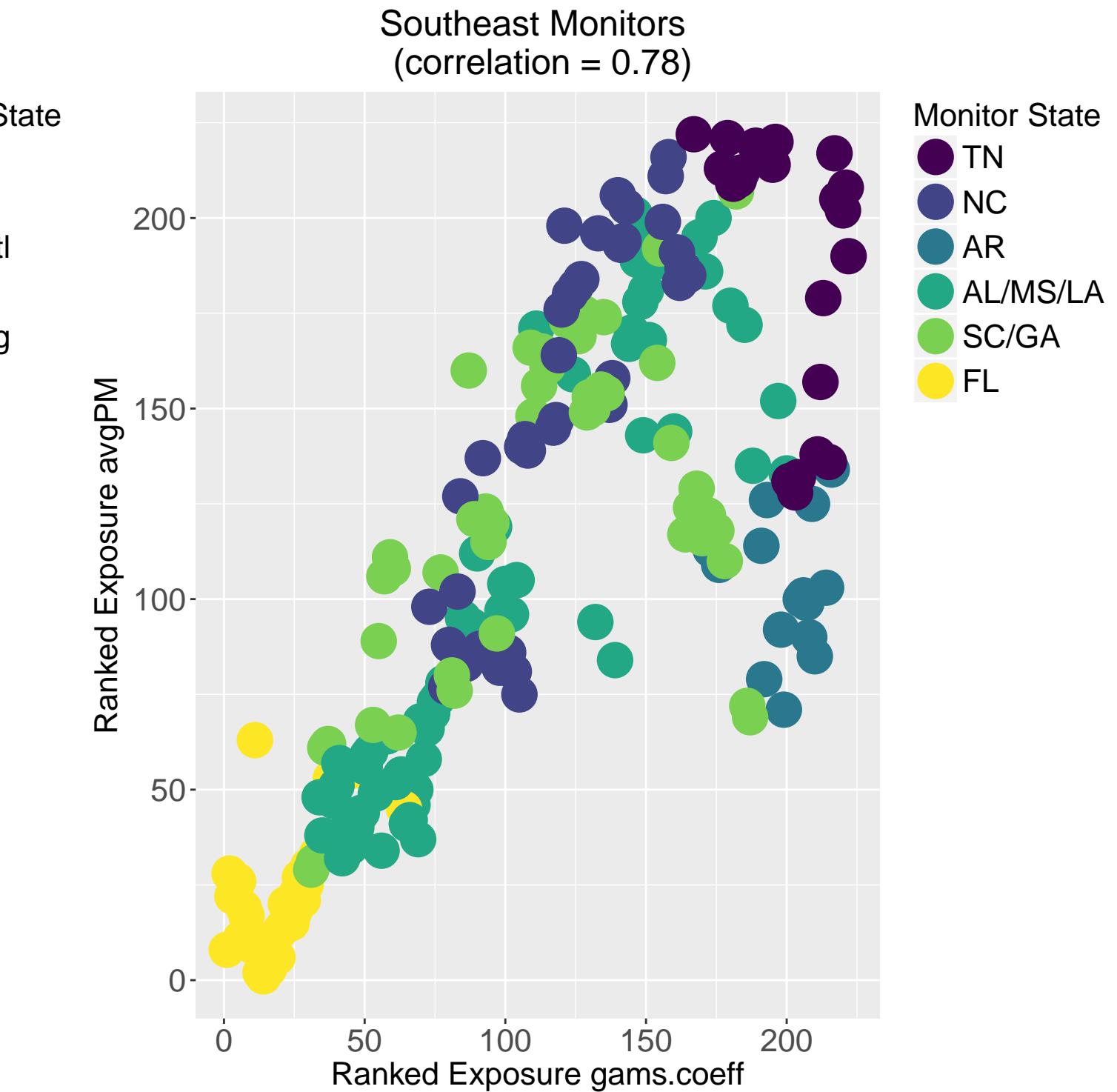
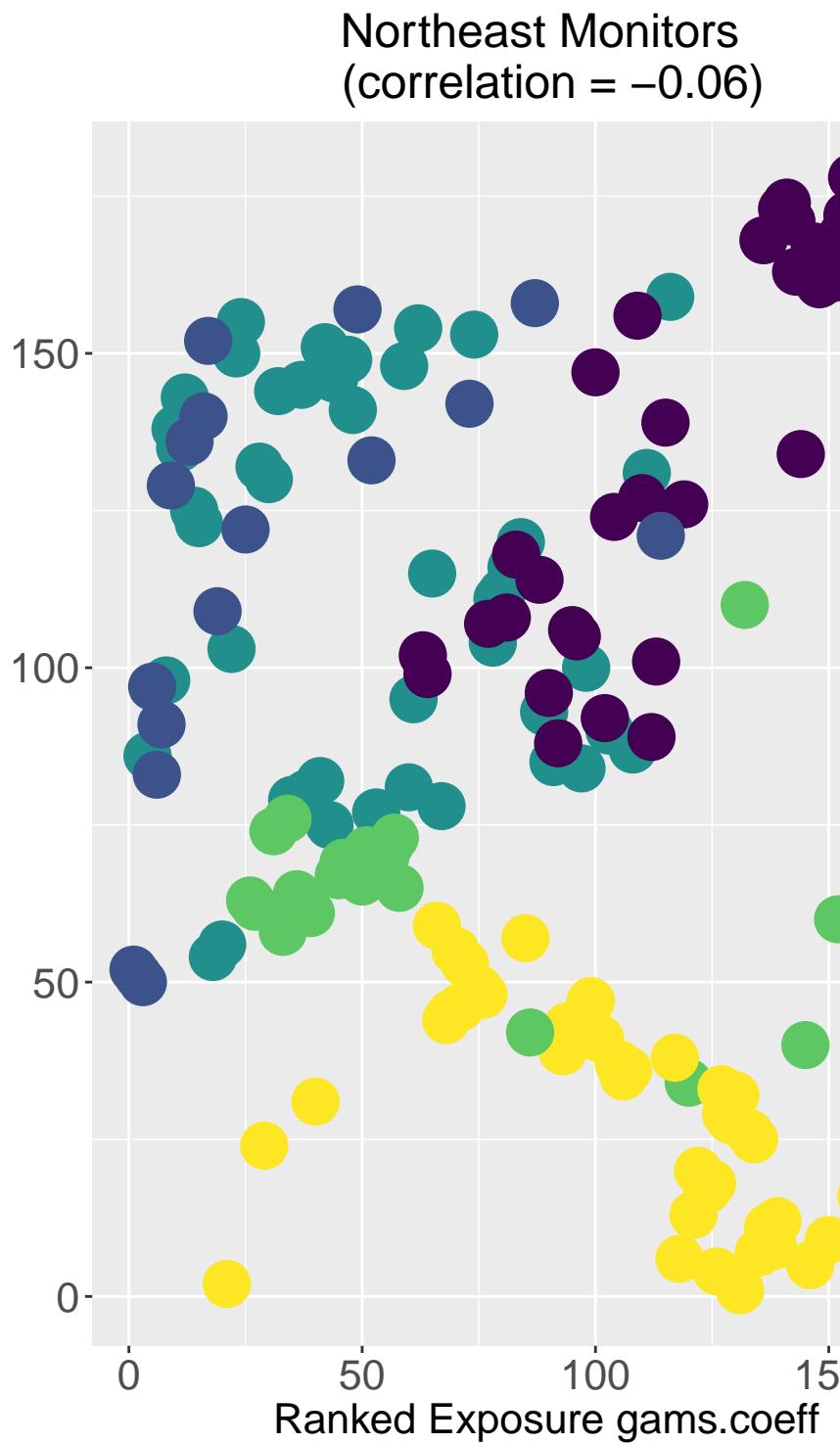
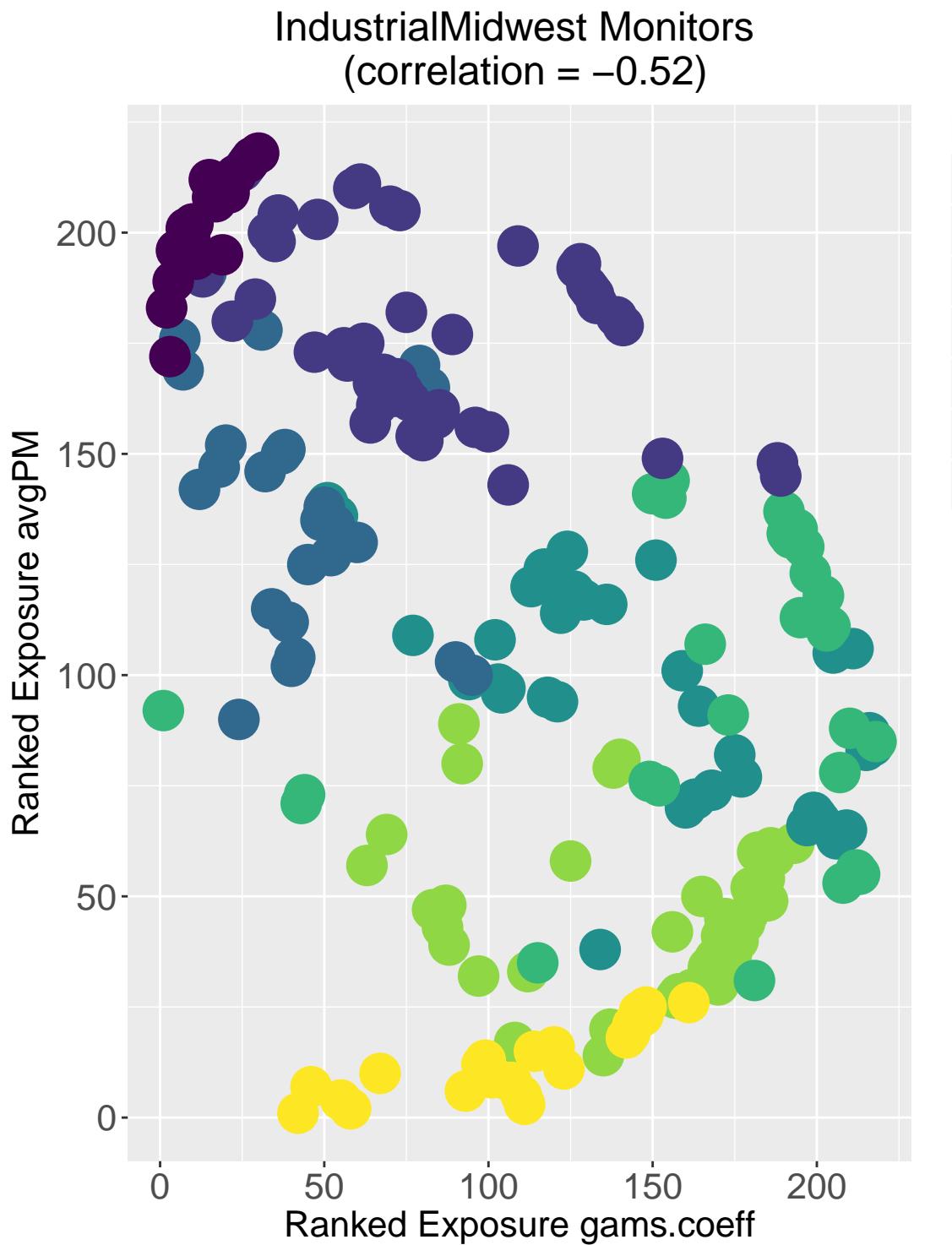
**Highest exposed: sum of gams.coeff, summer\_distLag 2005**



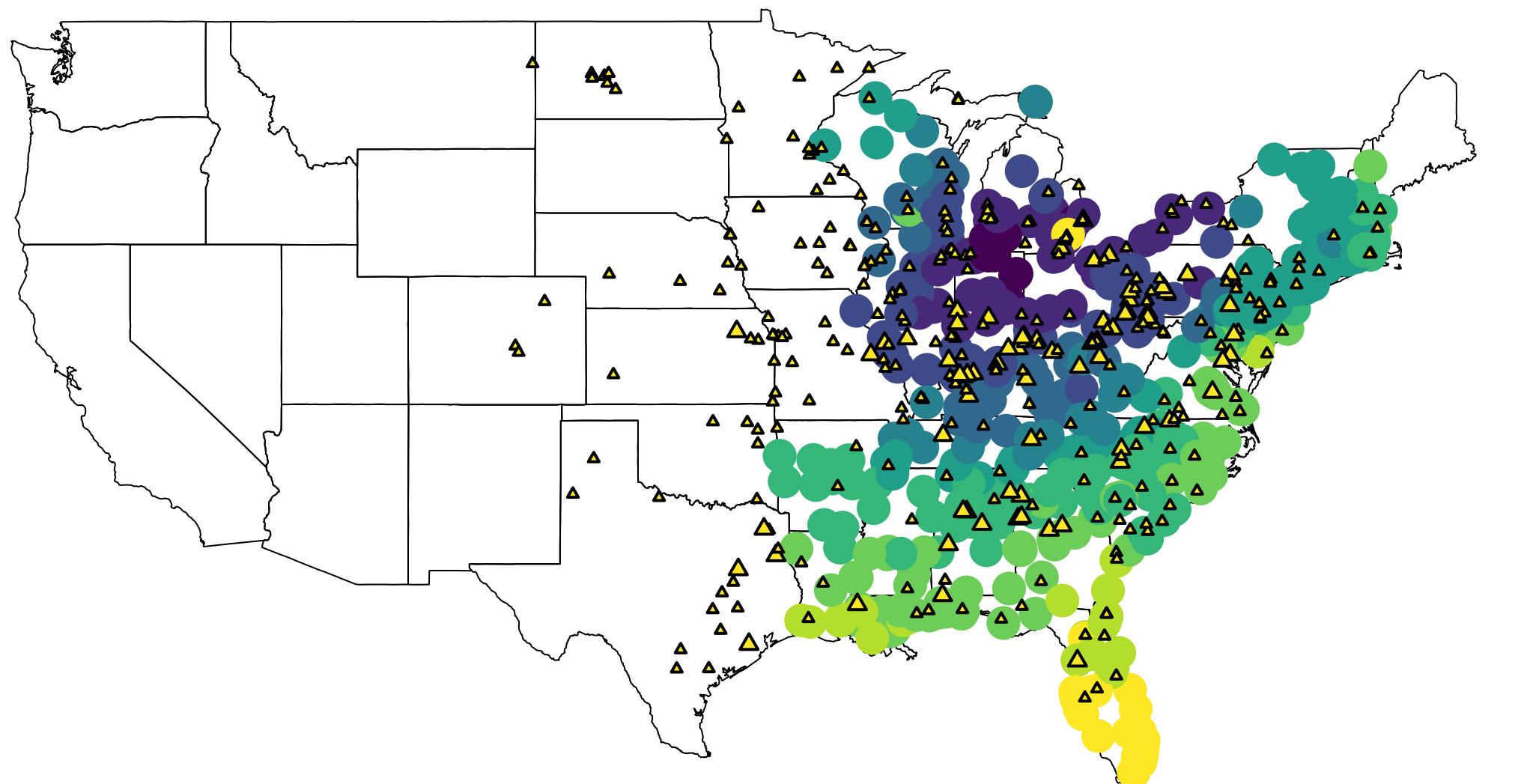
**Highest exposed: avgPM, decomposed75 summer\_distLag 2005**



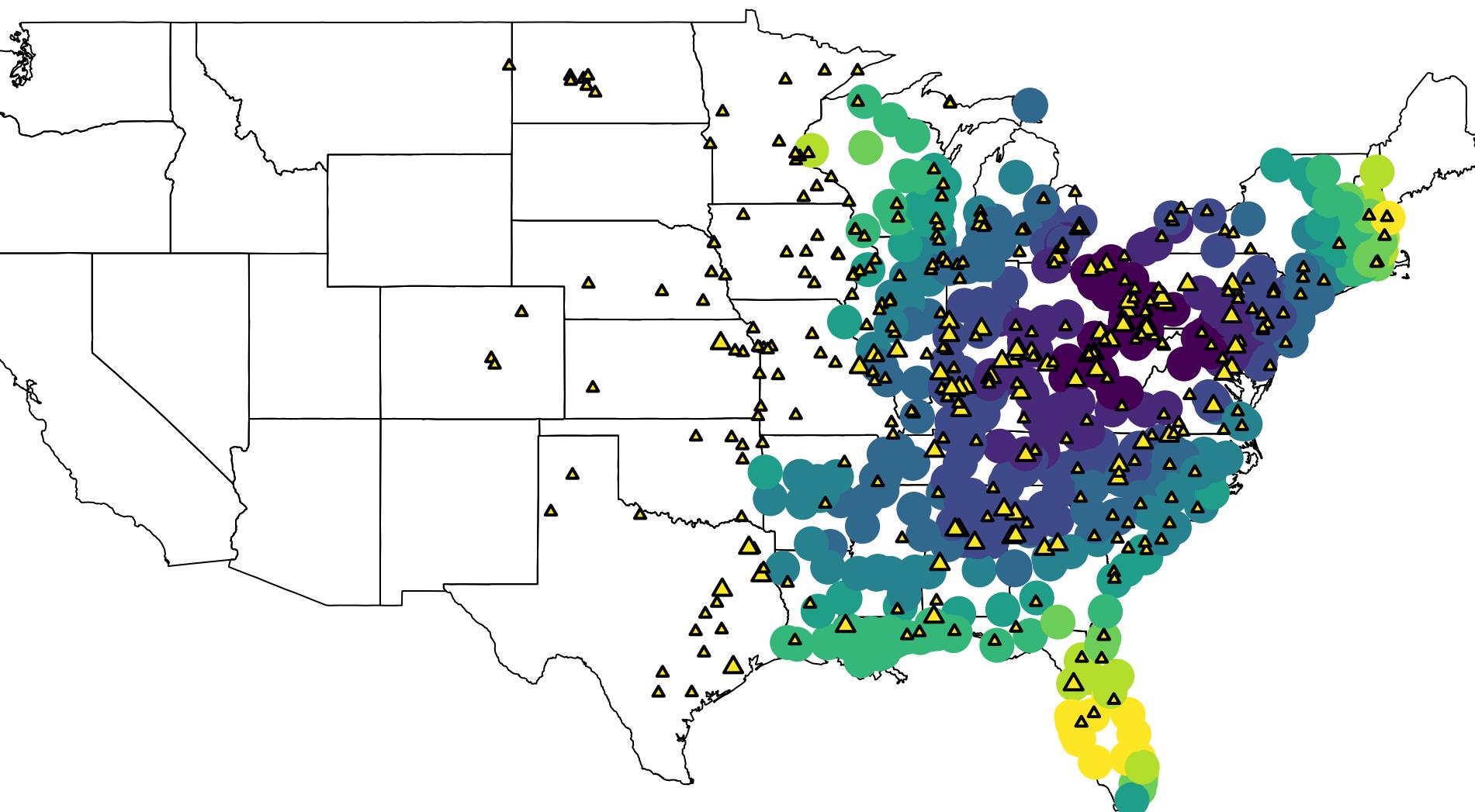
# Comparison of coal emissions exposure (sum of gams.coeff vs. low freq PM)



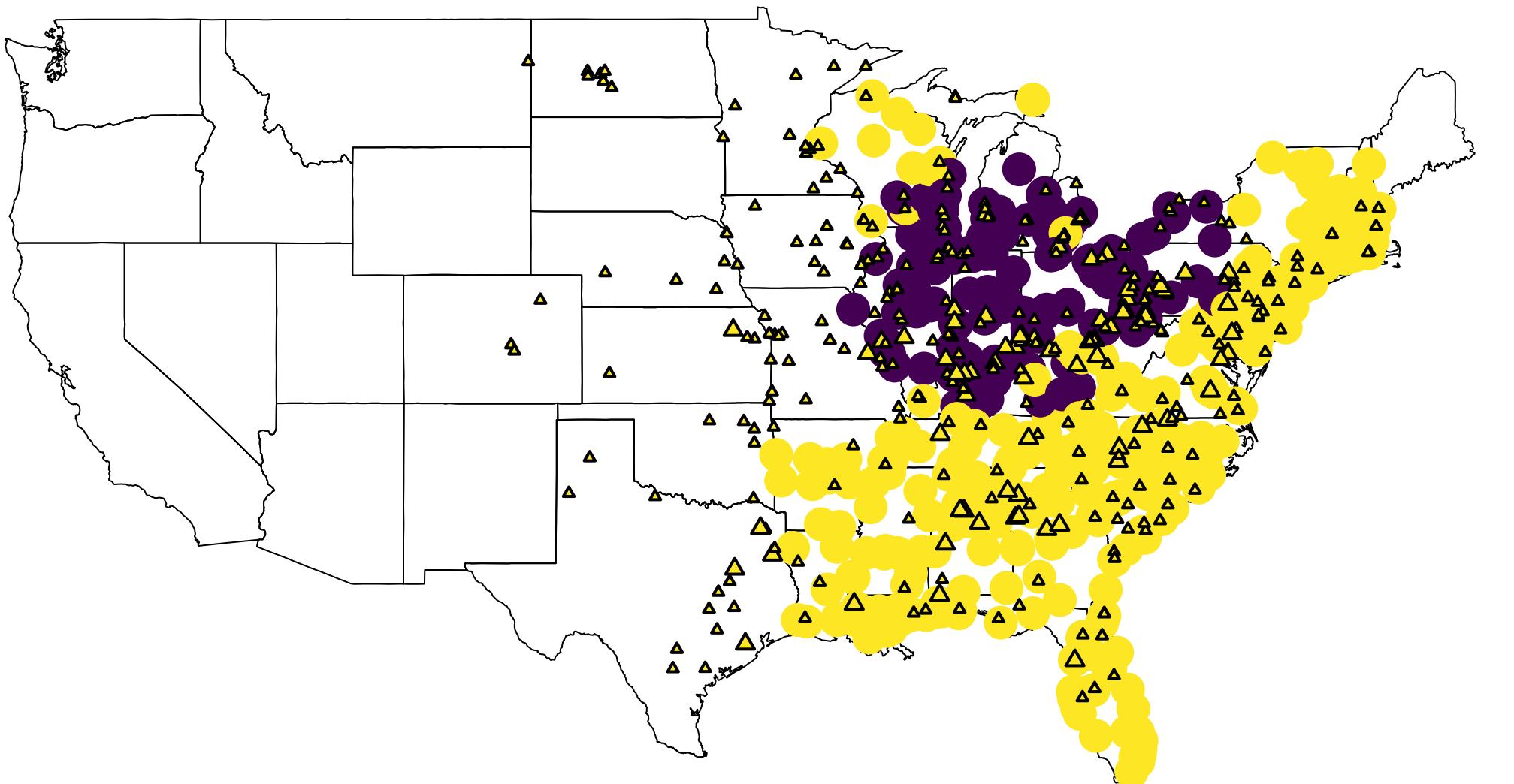
**Monitor exposure: num\_edges, summer\_distLag 2005**



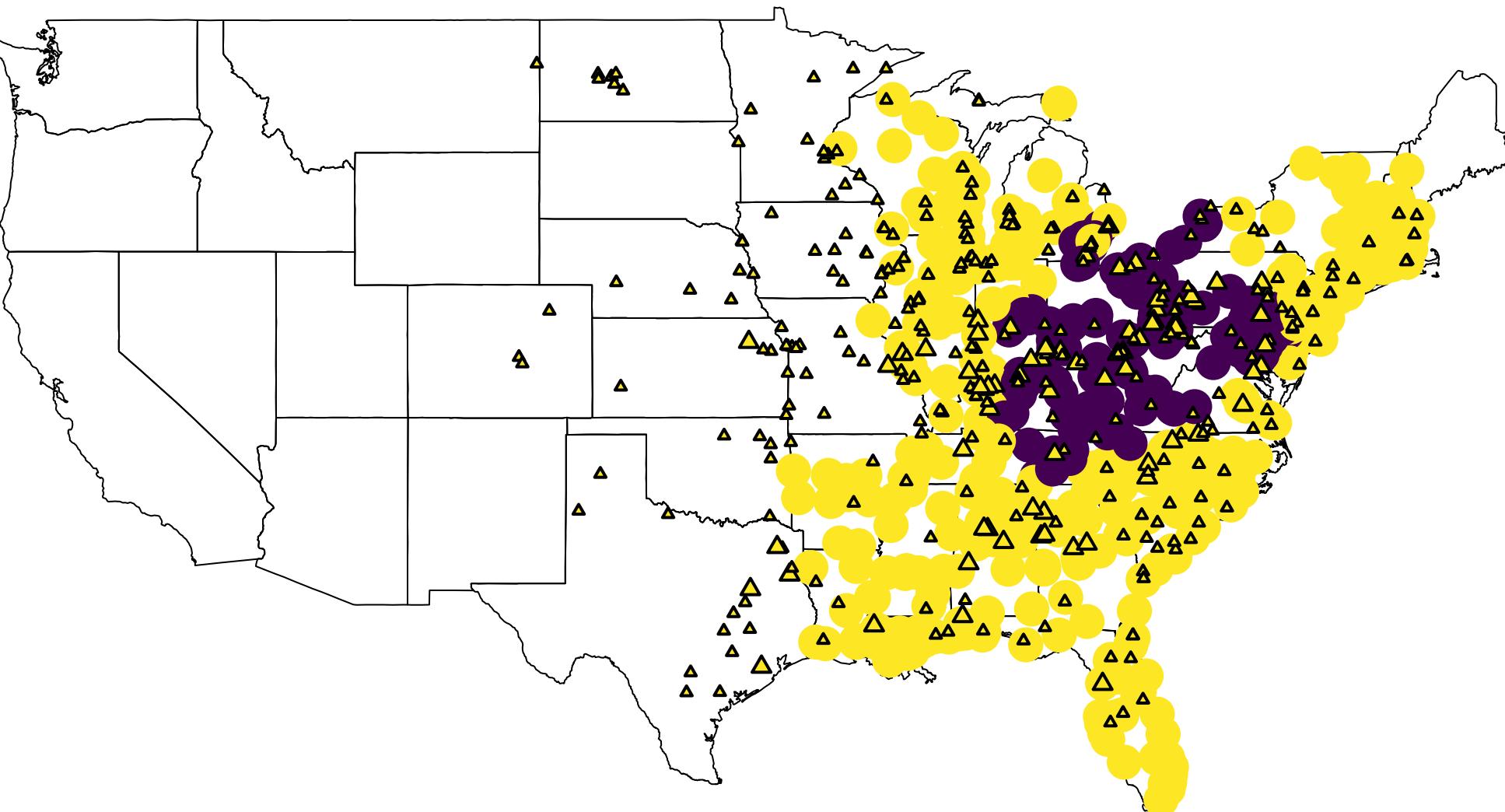
**Monitor exposure: avgPM, decomposed75 summer\_distLag 2005**



**Highest exposed: num\_edges, summer\_distLag 2005**



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



# Comparison of coal emissions exposure (num\_edges vs. low freq PM)

