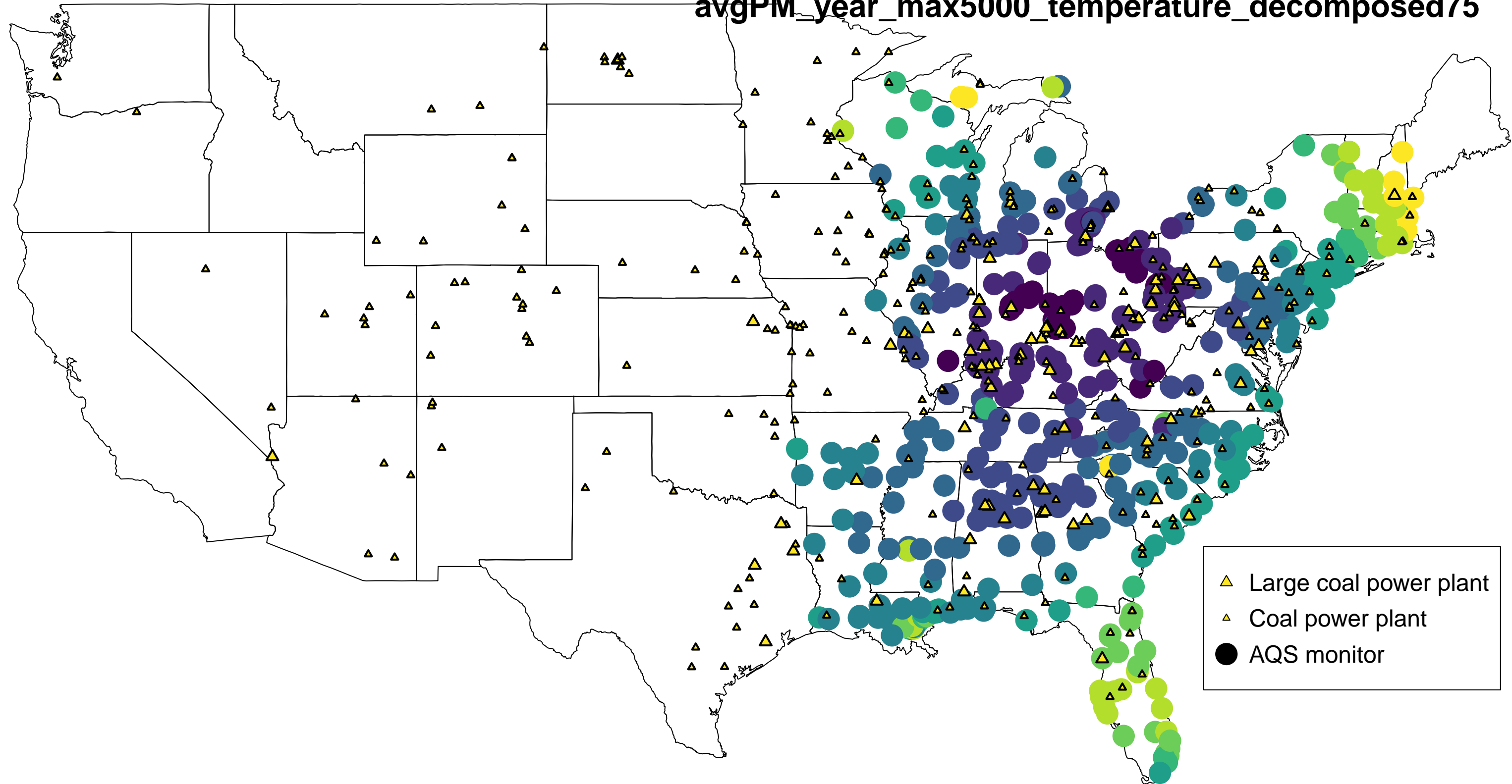
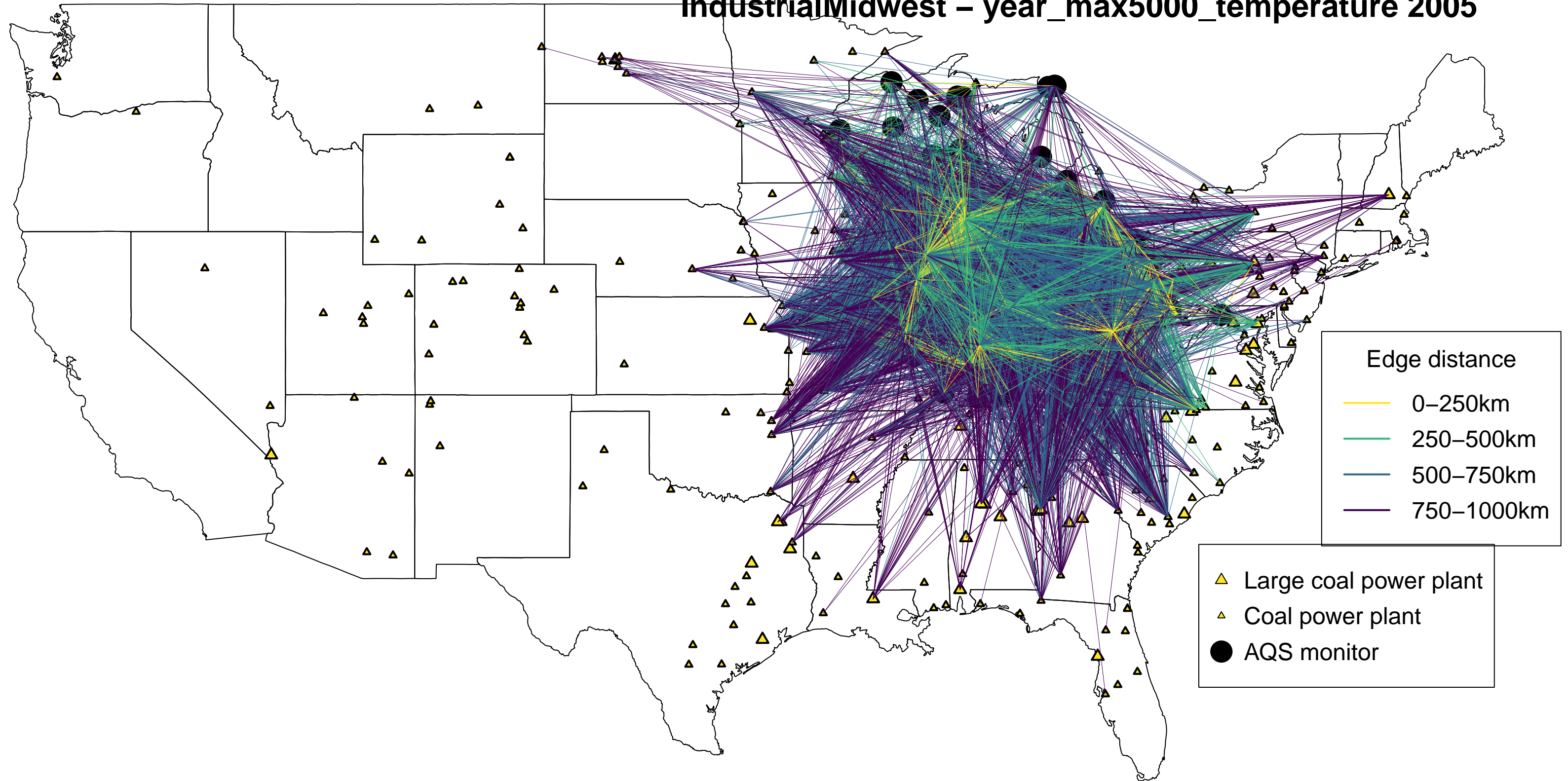


avgPM\_year\_max5000\_temperature\_decomposed75

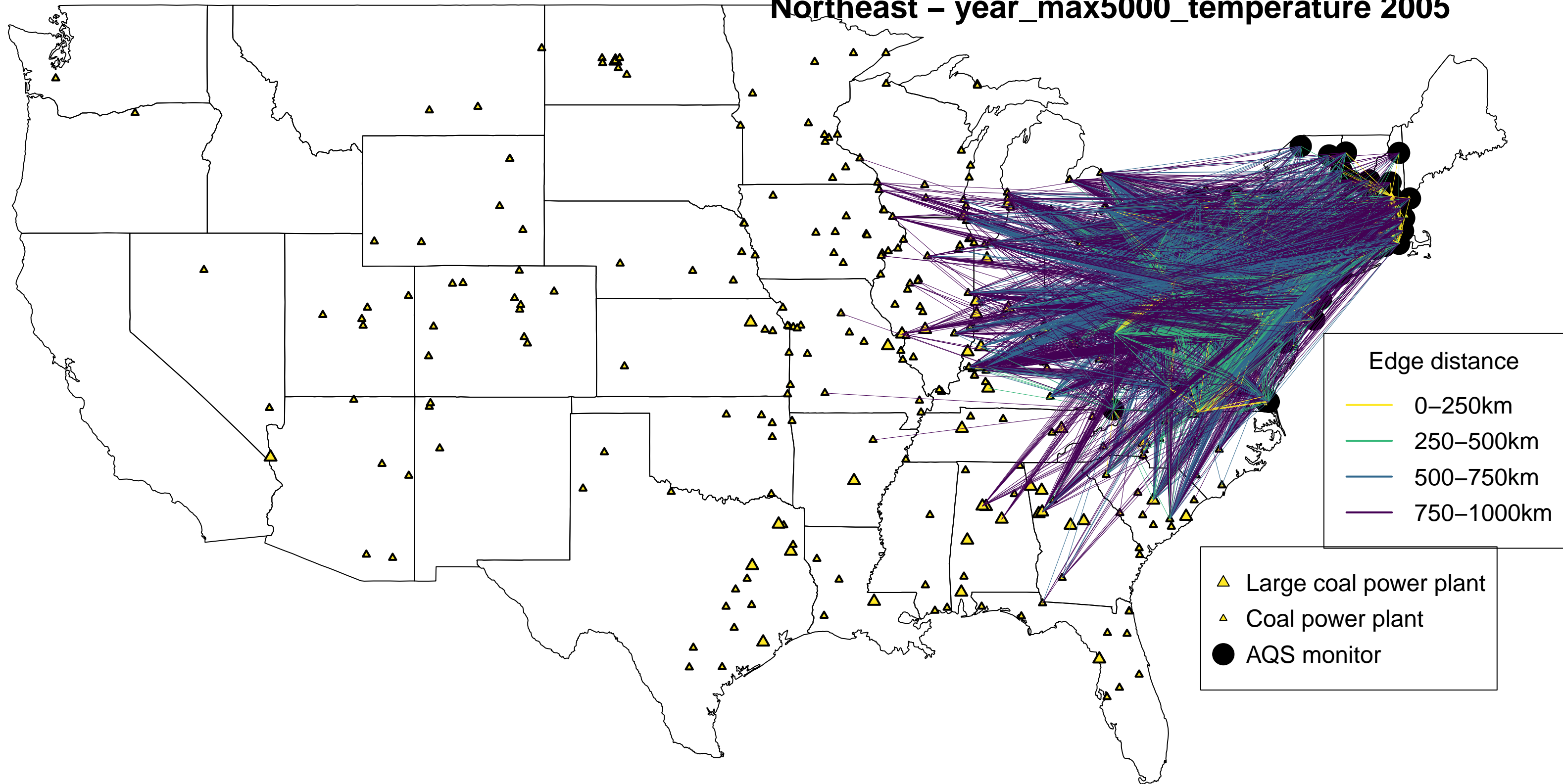


# IndustrialMidwest – year\_max5000\_temperature 2005

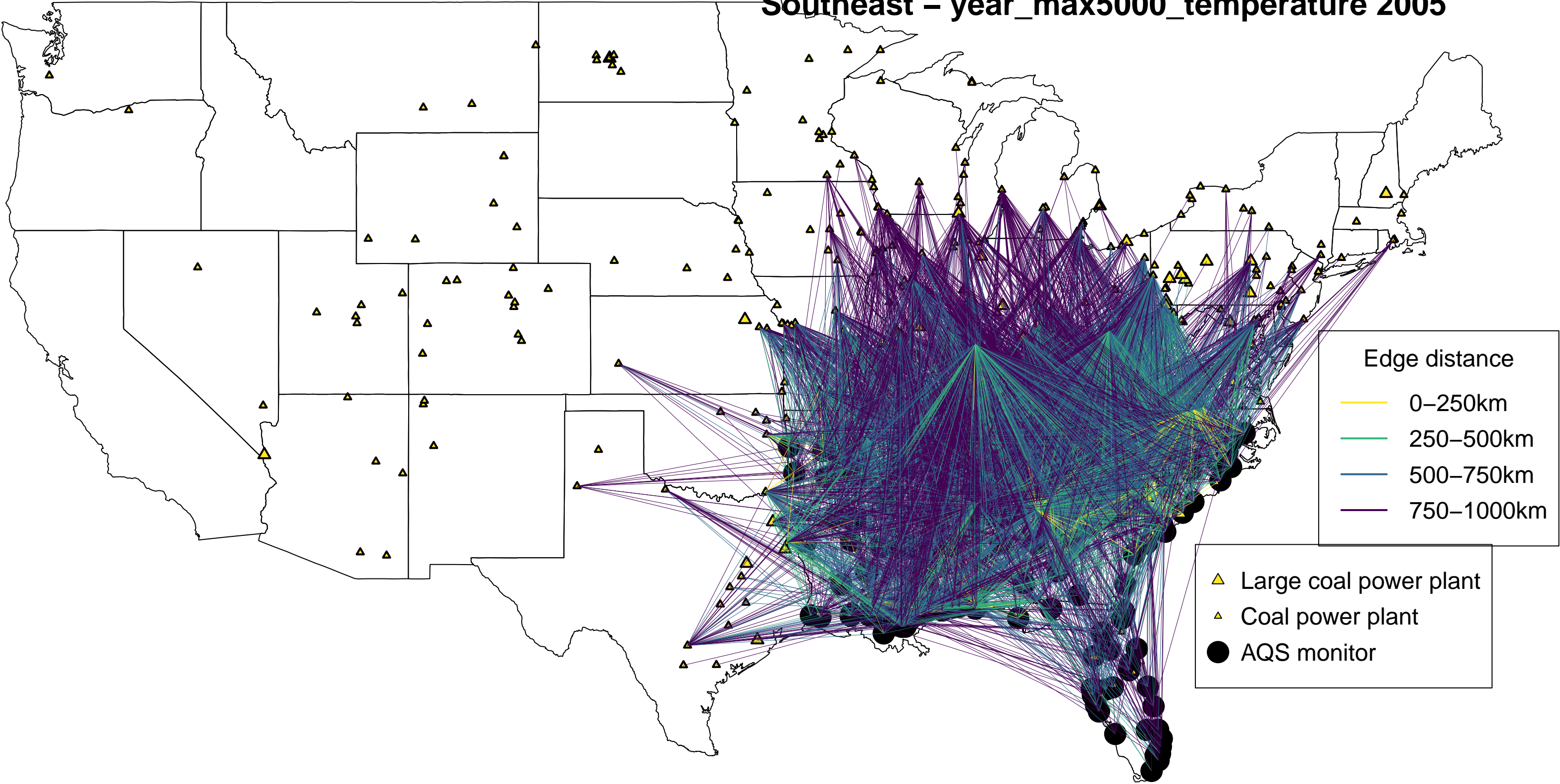




Northeast – year\_max5000\_temperature 2005

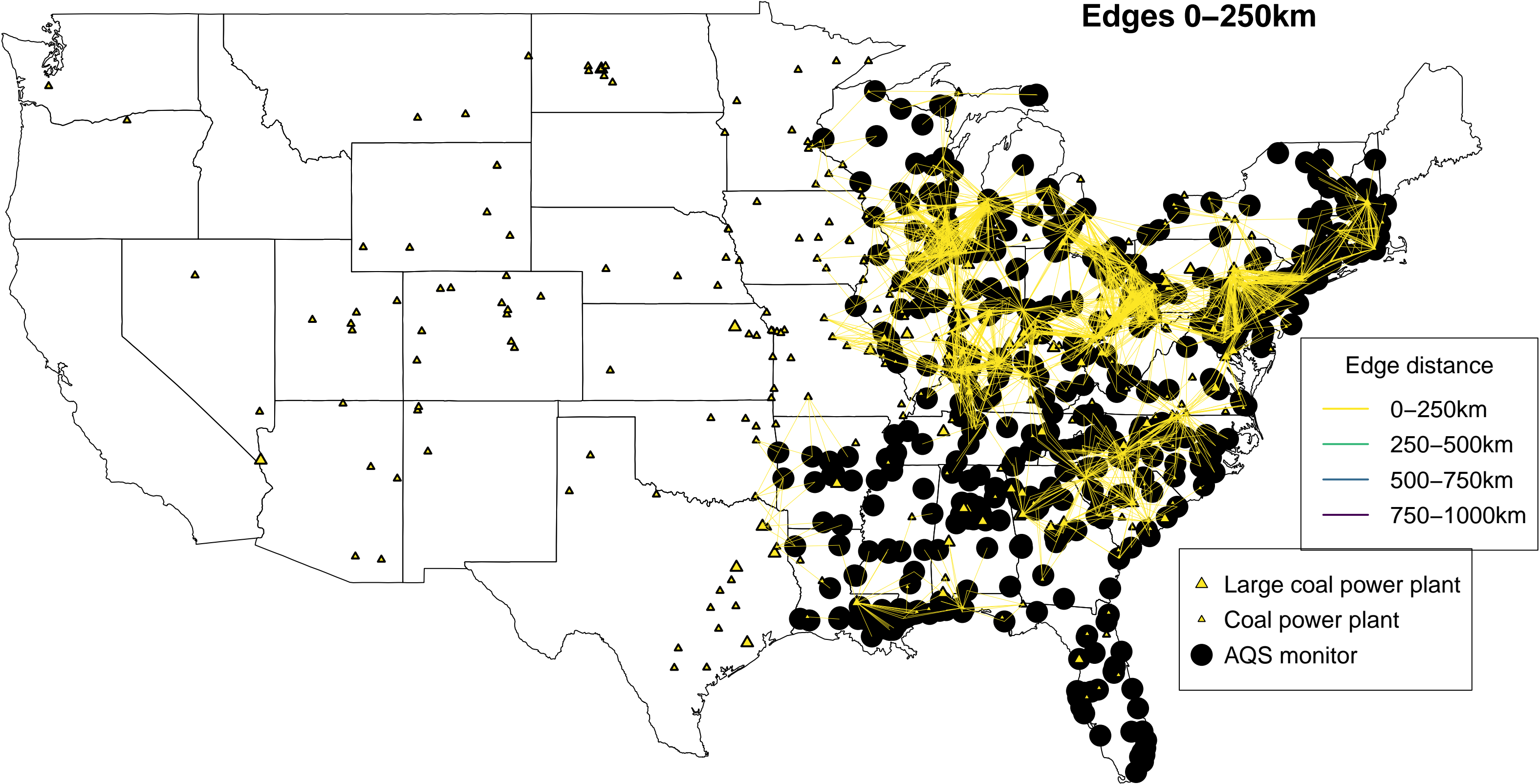


**Southeast – year\_max5000\_temperature 2005**

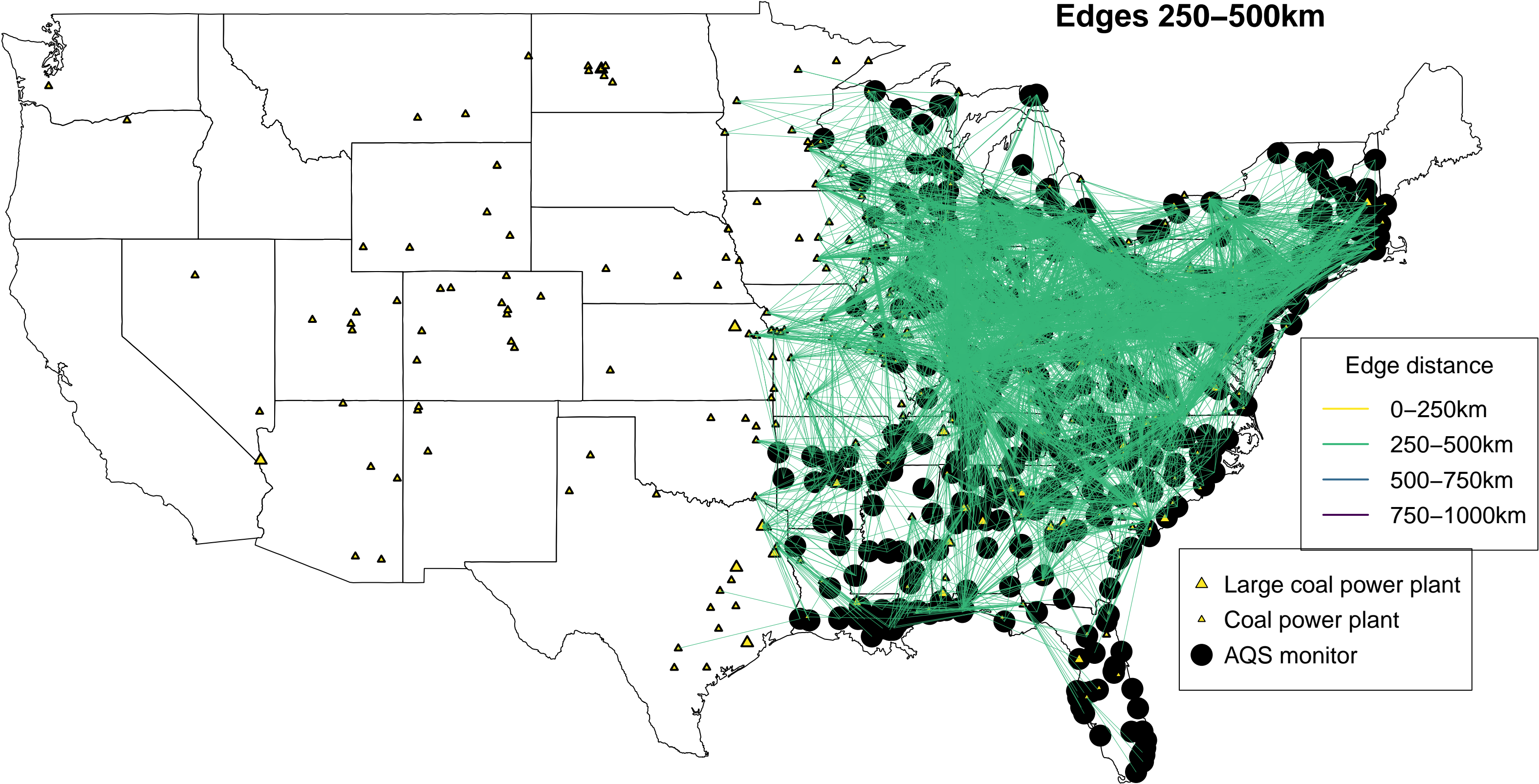




Edges 0–250km

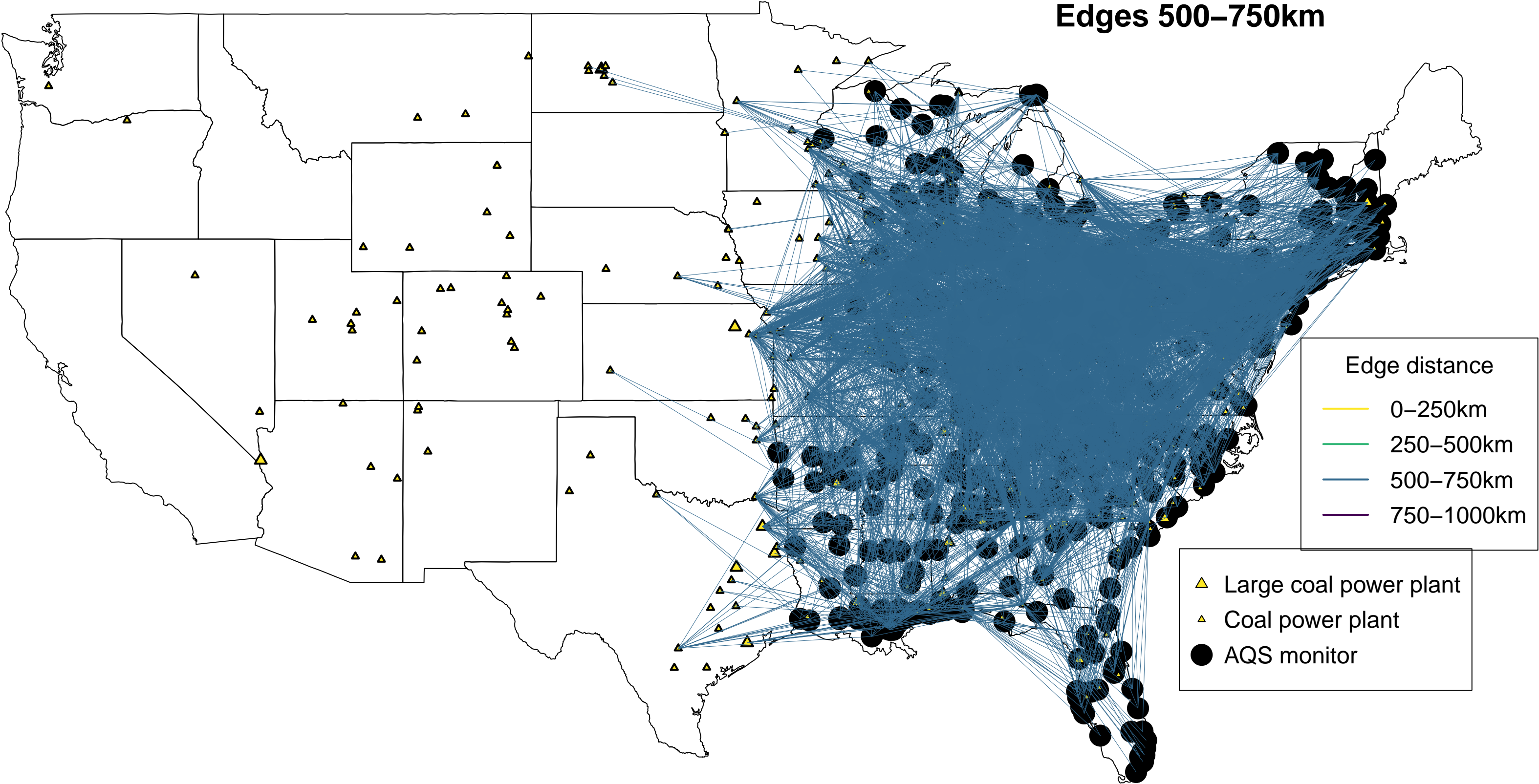


Edges 250–500km



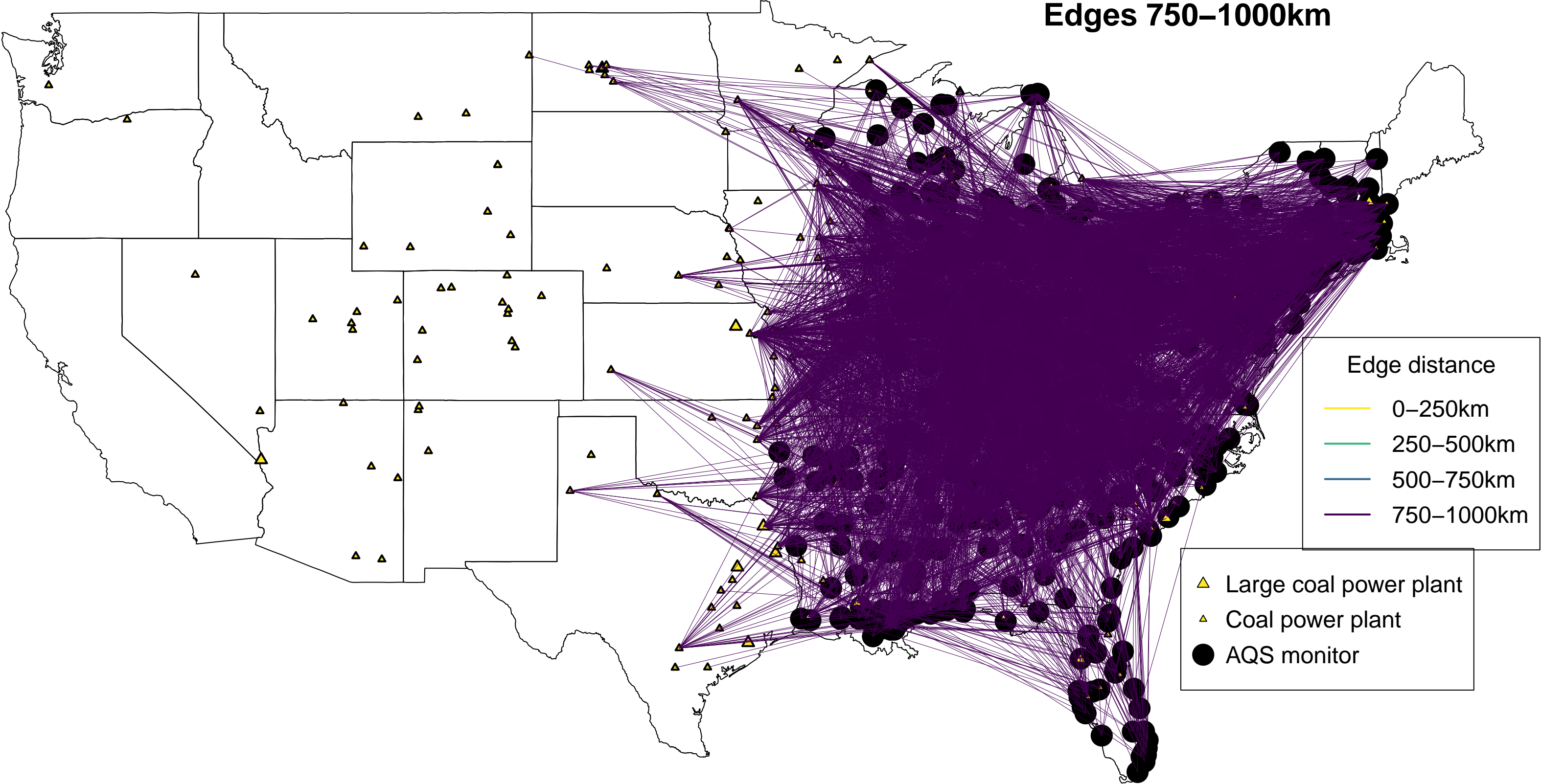


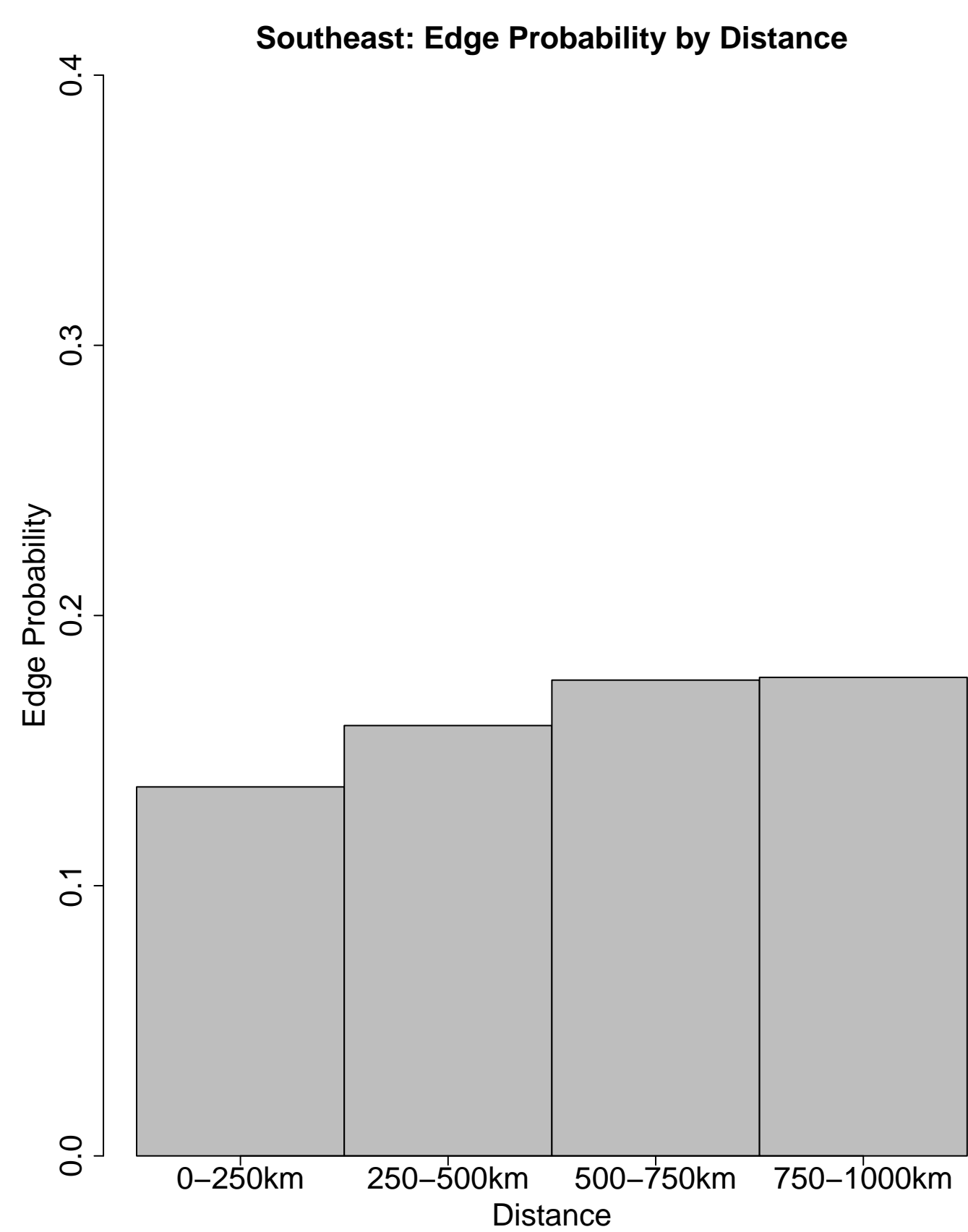
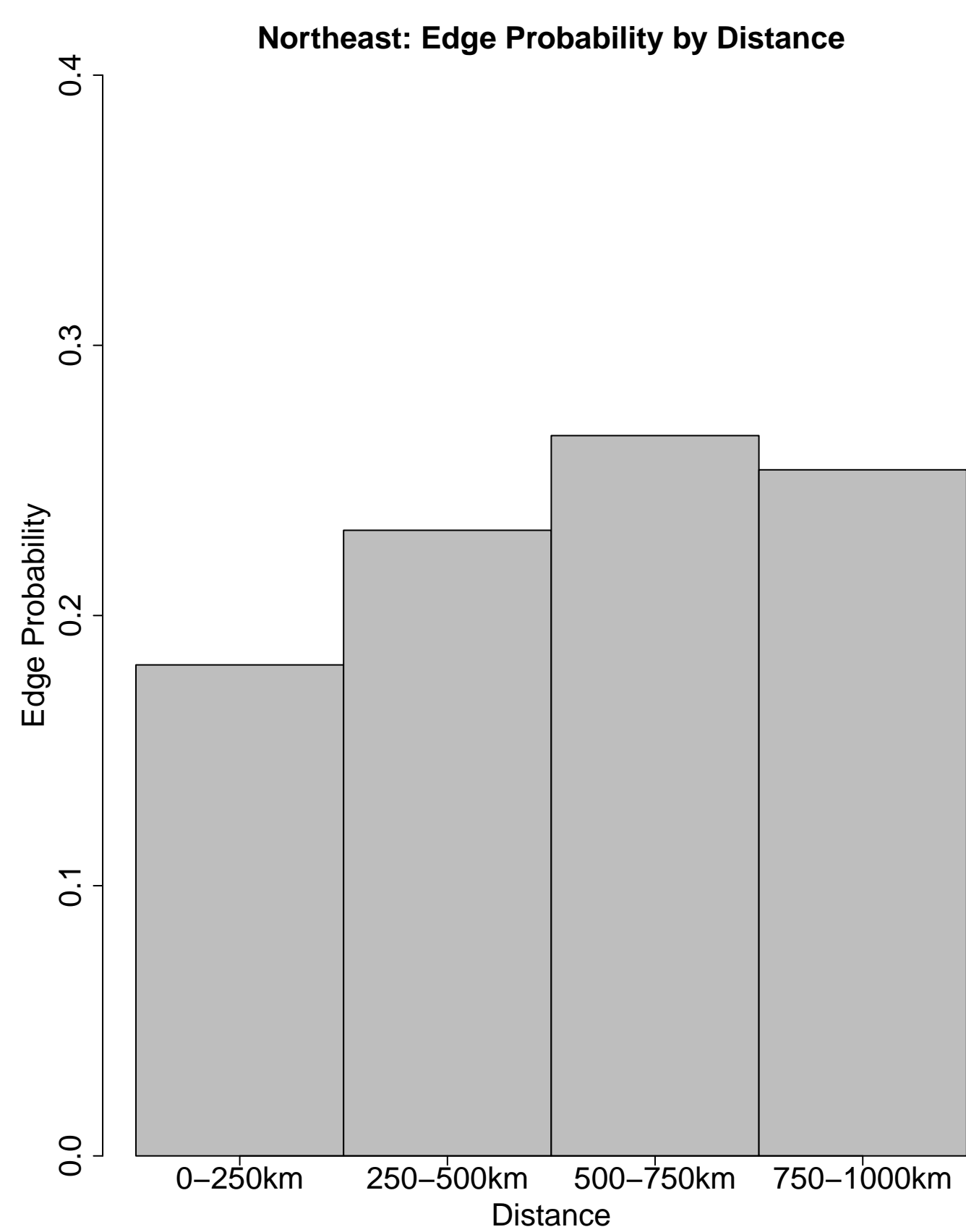
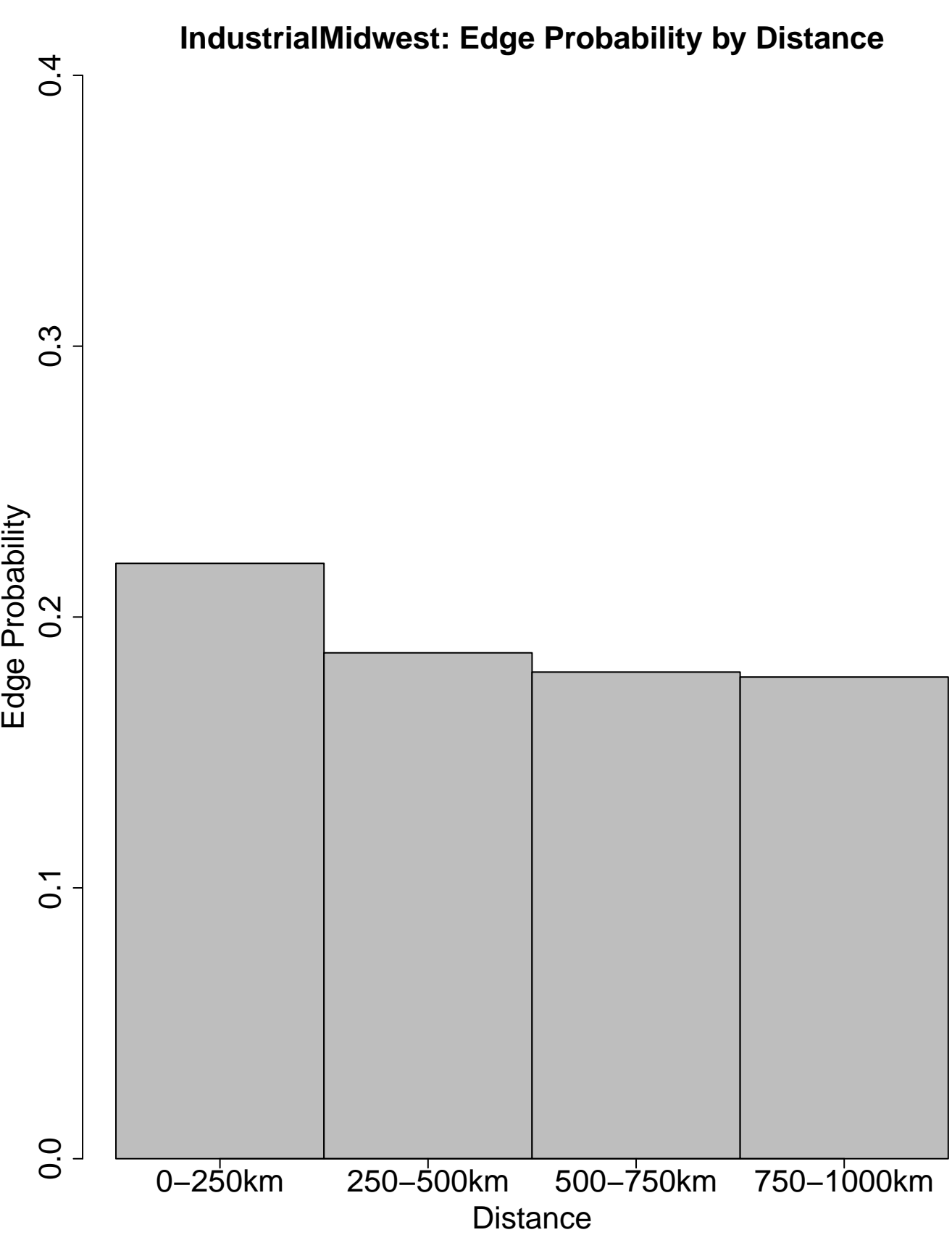
Edges 500–750km





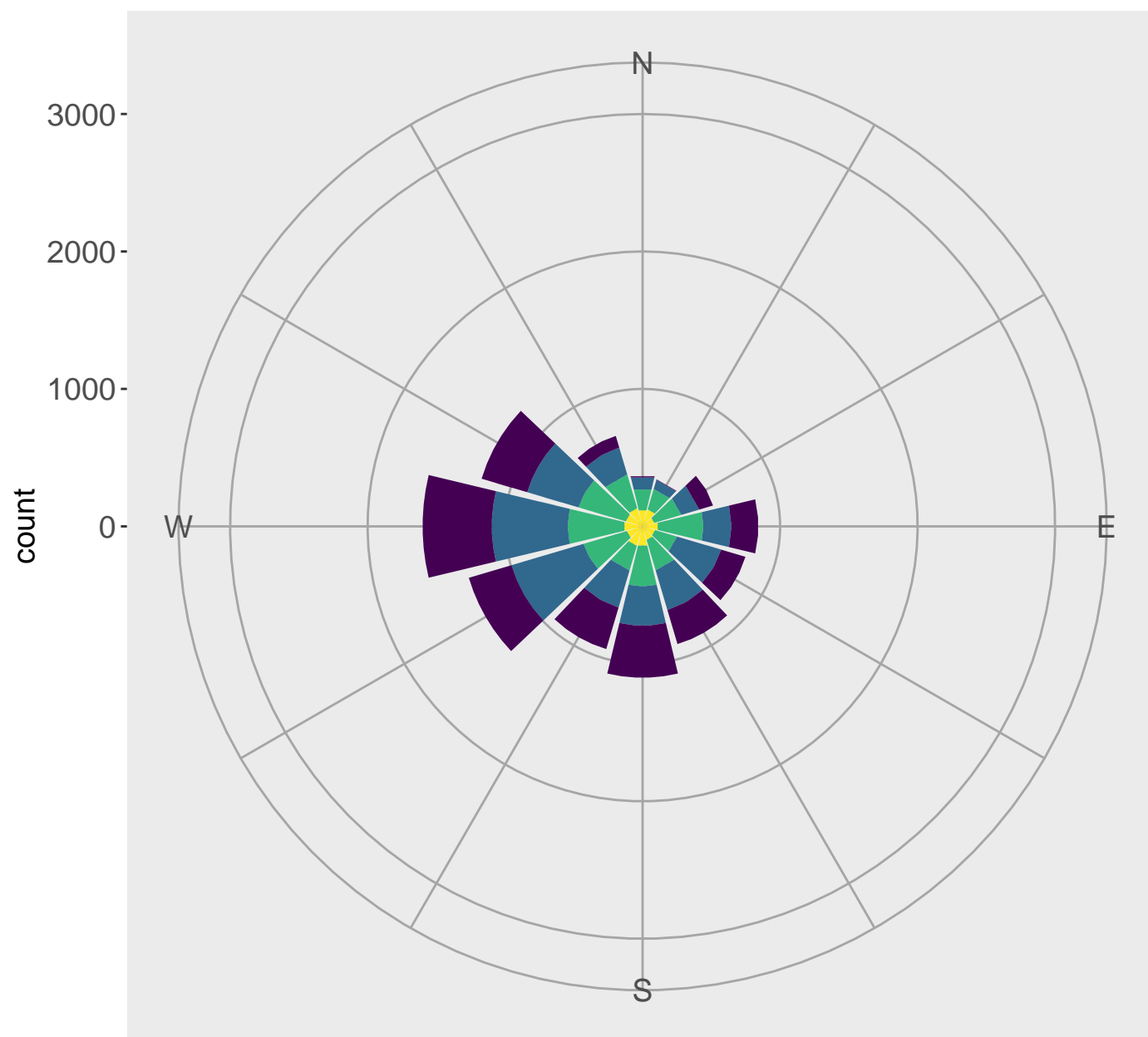
Edges 750–1000km





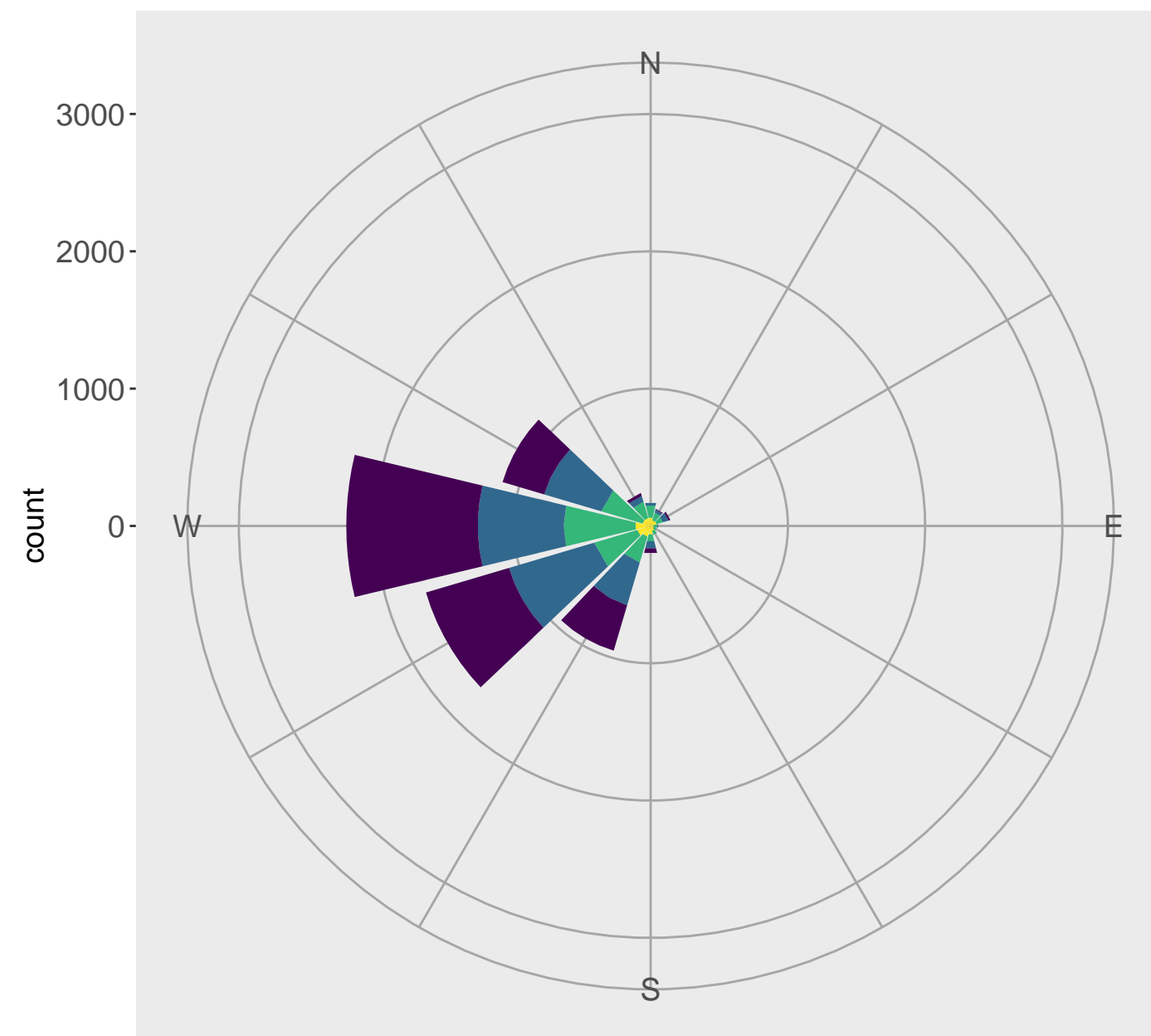


Industrial Midwest



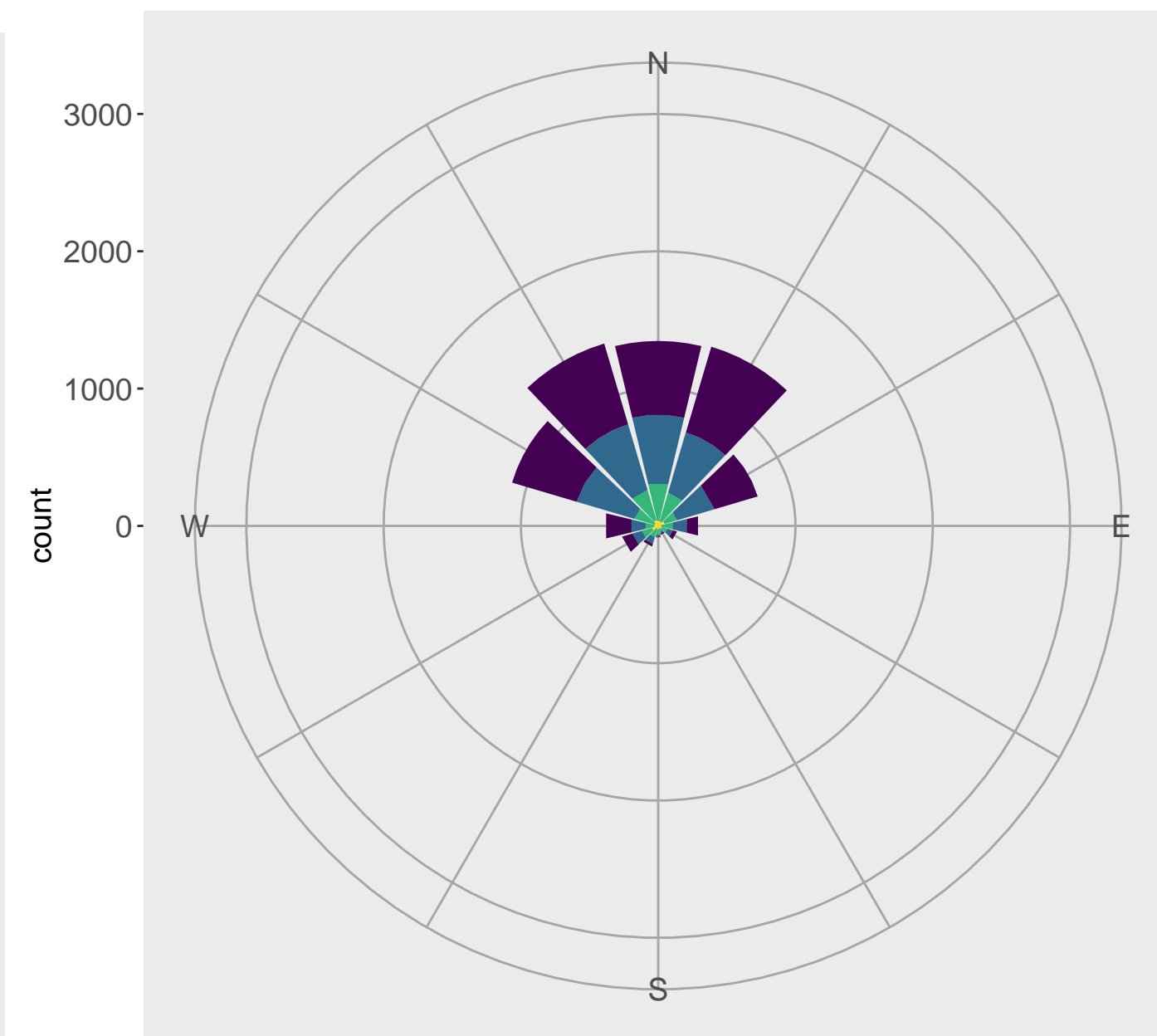
Distance to Source (km) 750–1000 500–750 250–500 0–250

edge counts – by direction  
from NE monitor to power plants



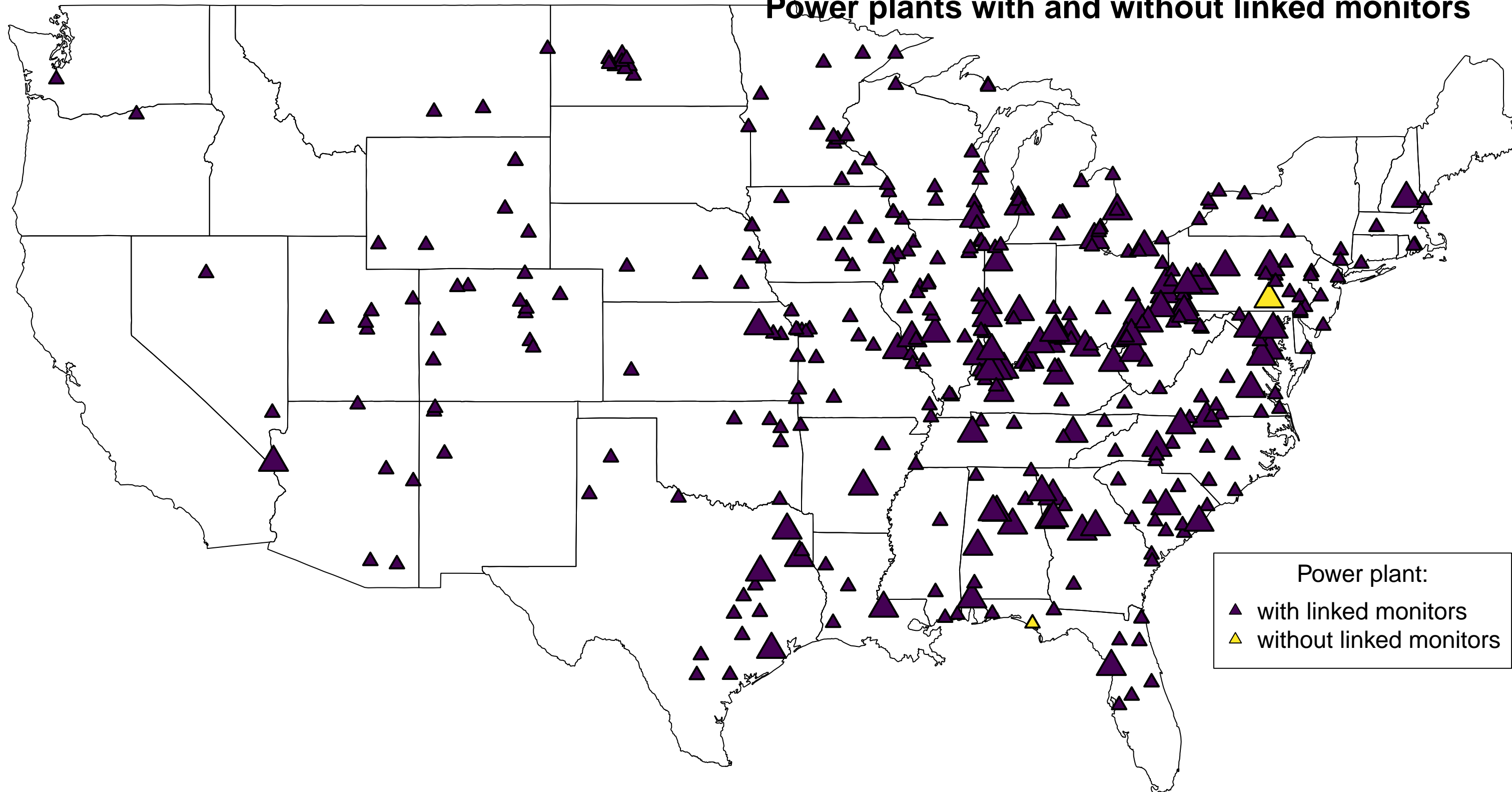
Distance to Source (km) 750–1000 500–750 250–500 0–250

Southeast



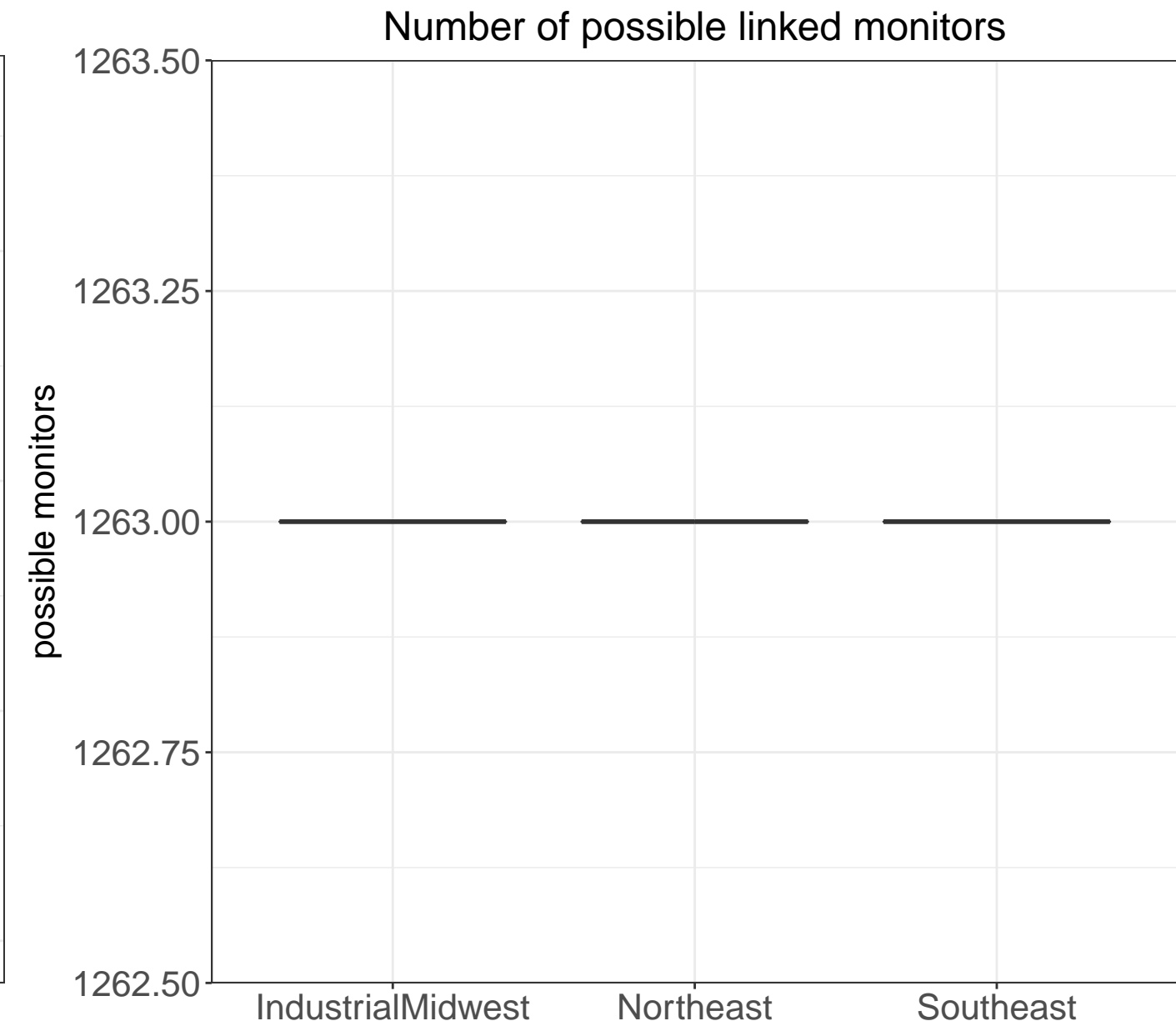
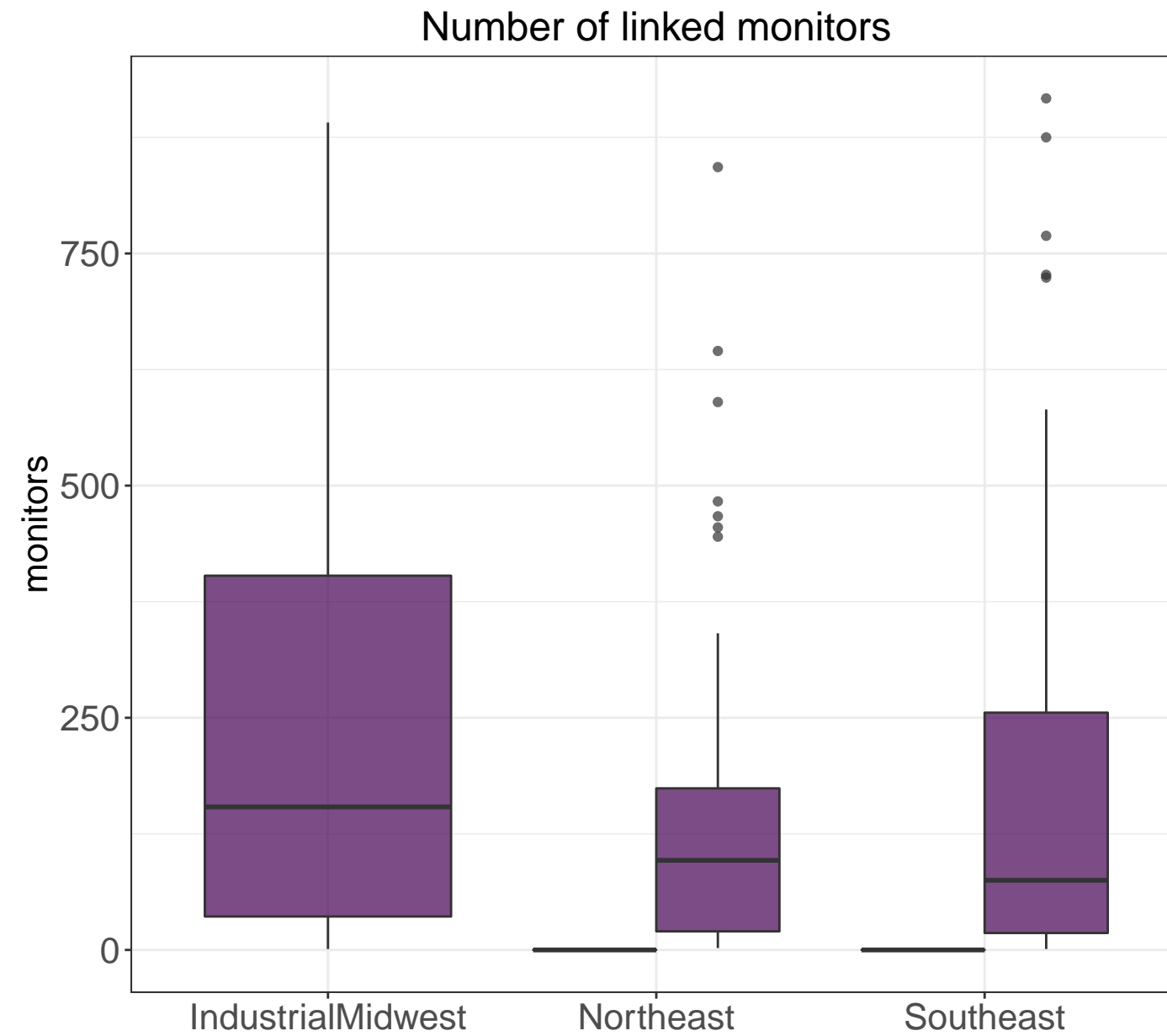
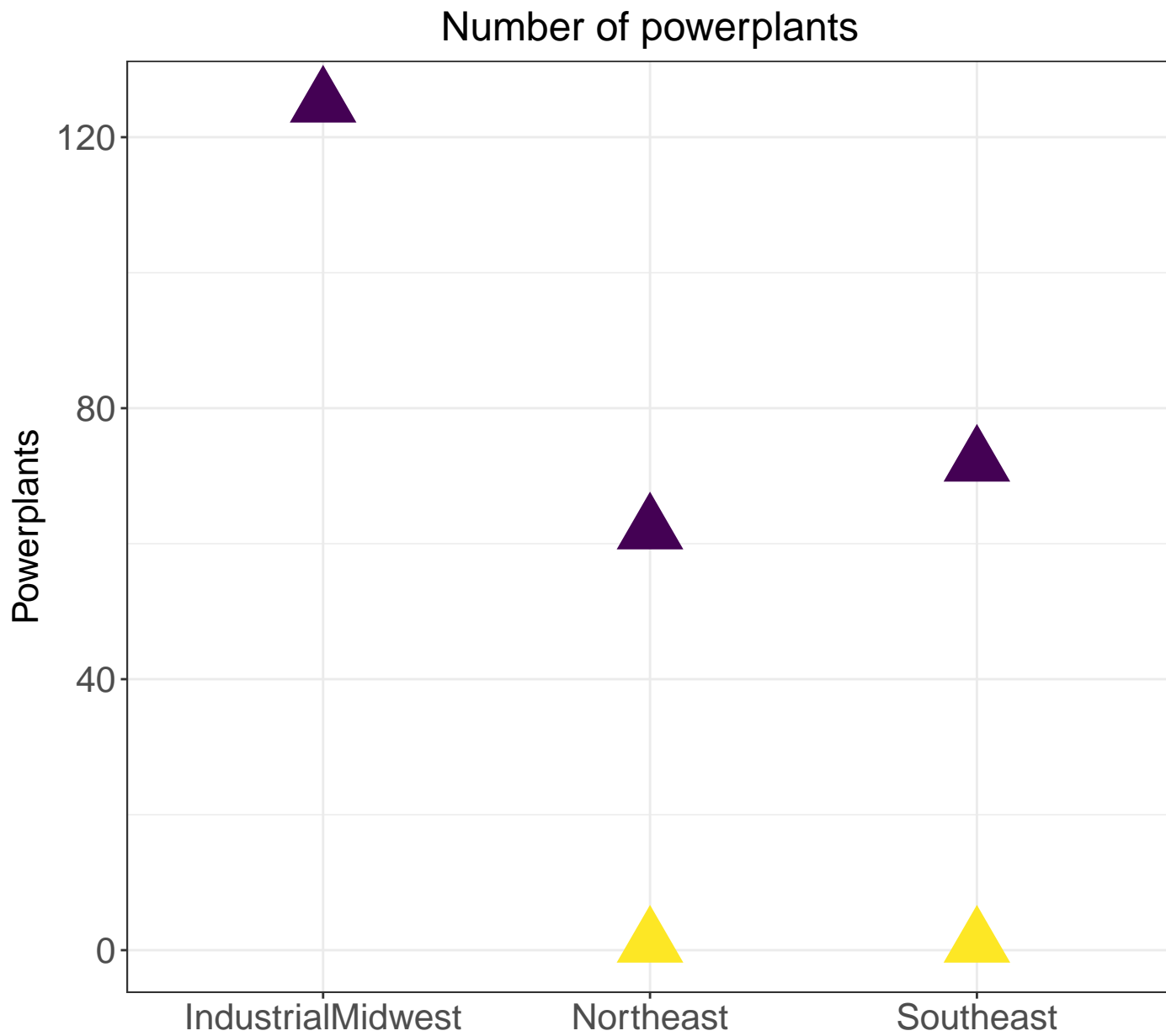
Distance to Source (km) 750–1000 500–750 250–500 0–250

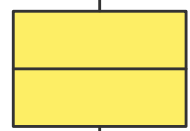
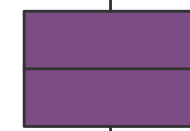
# Power plants with and without linked monitors



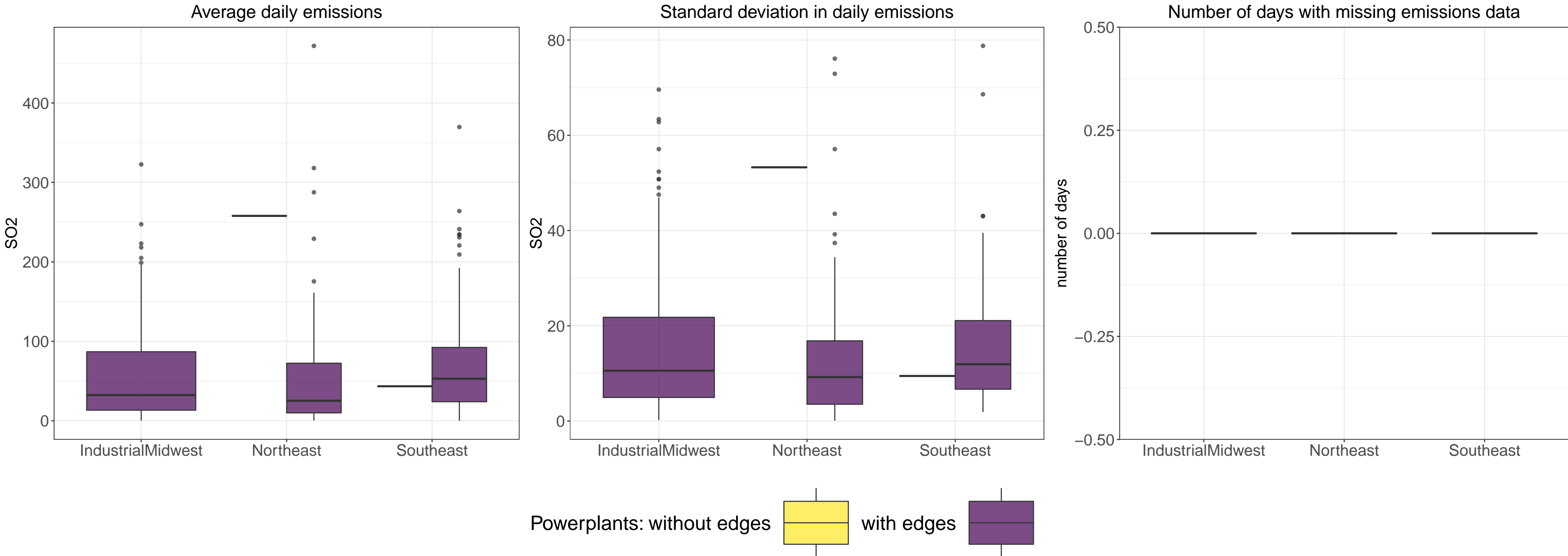


# Why do some power plants have linked monitors and others do not?



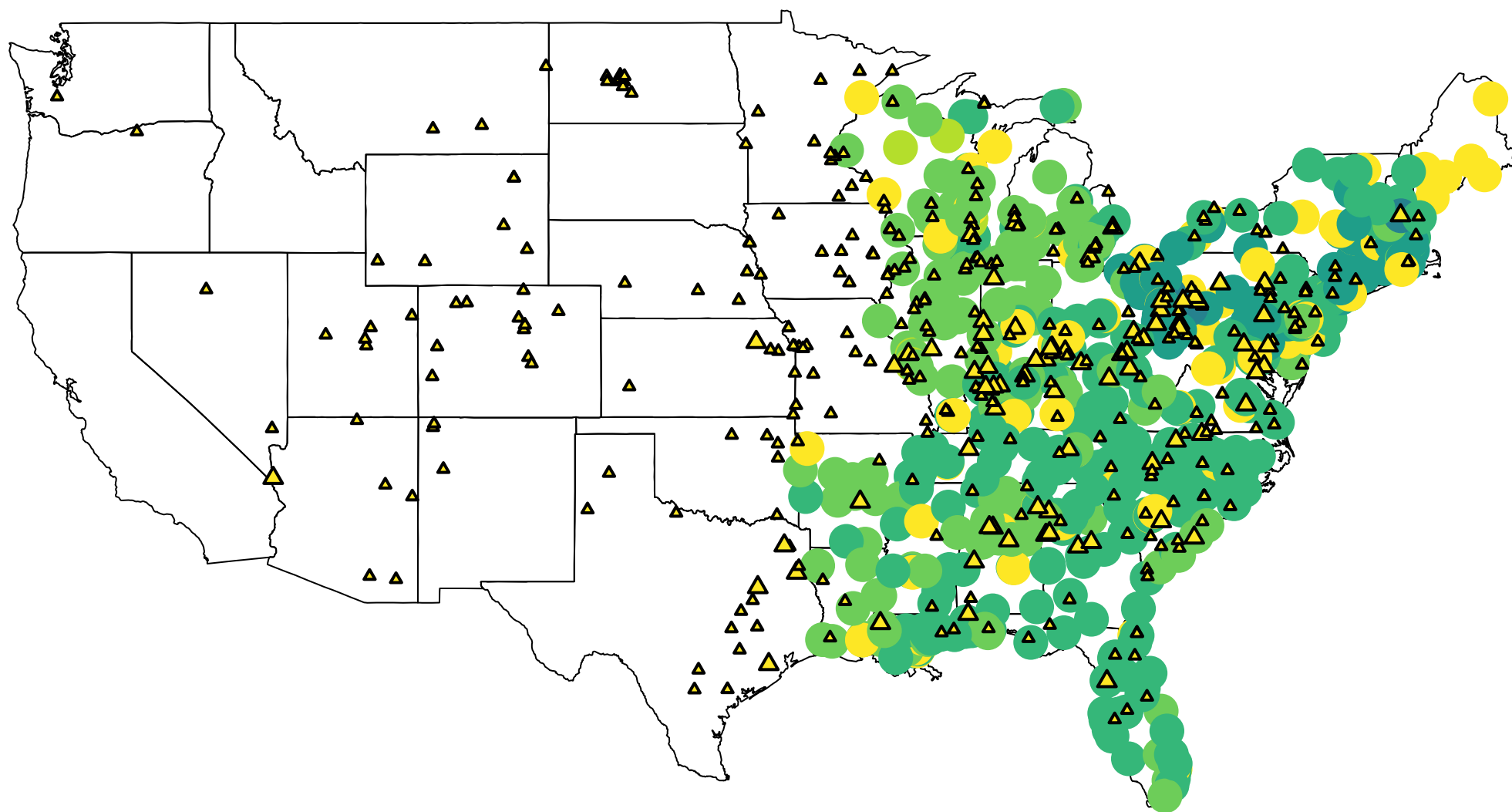
Powerplants: without edges  with edges 

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

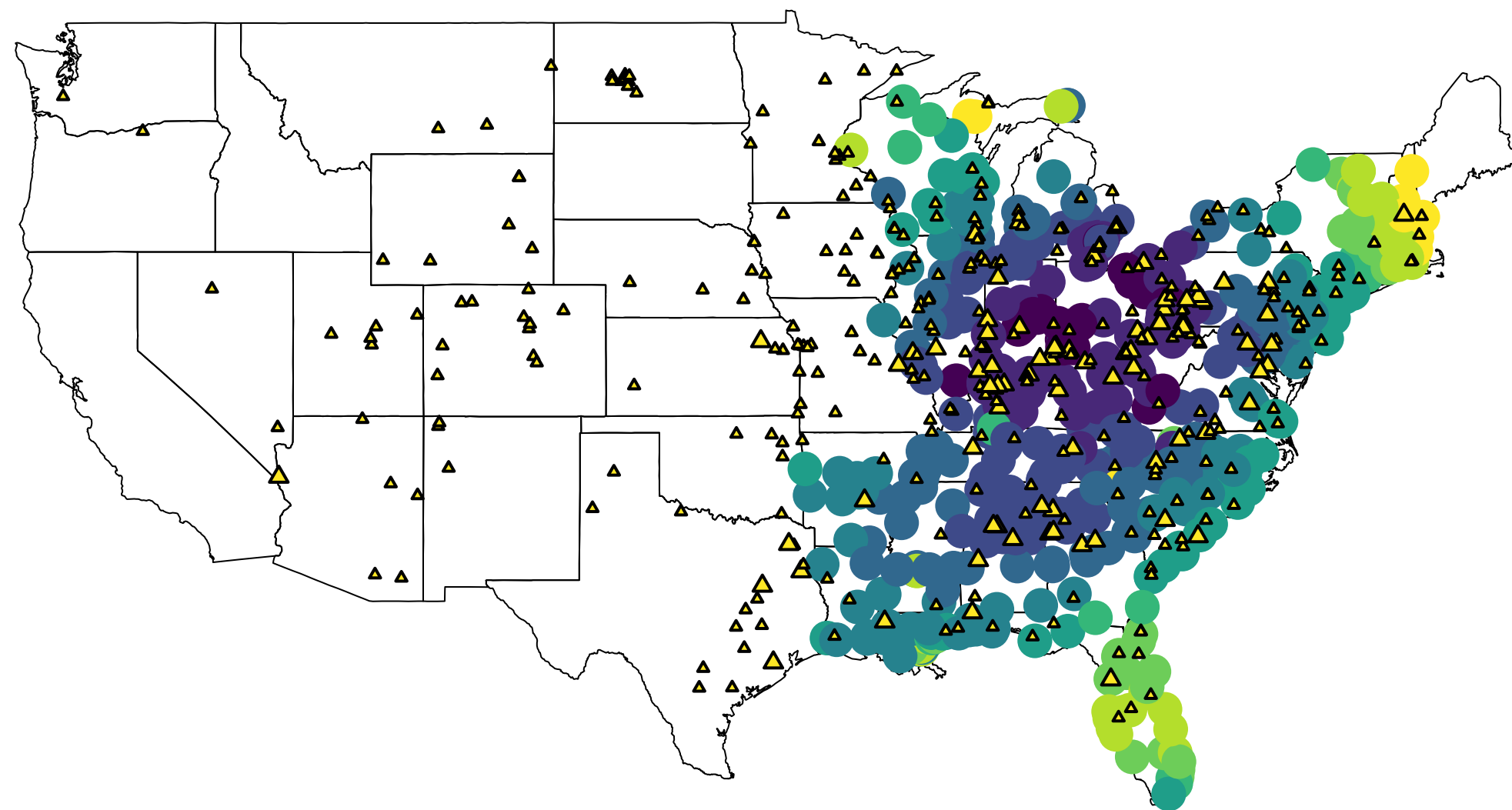




Monitor exposure:  
m of avgemissions\*(1/log(distance)), year\_max5000\_temperature 200



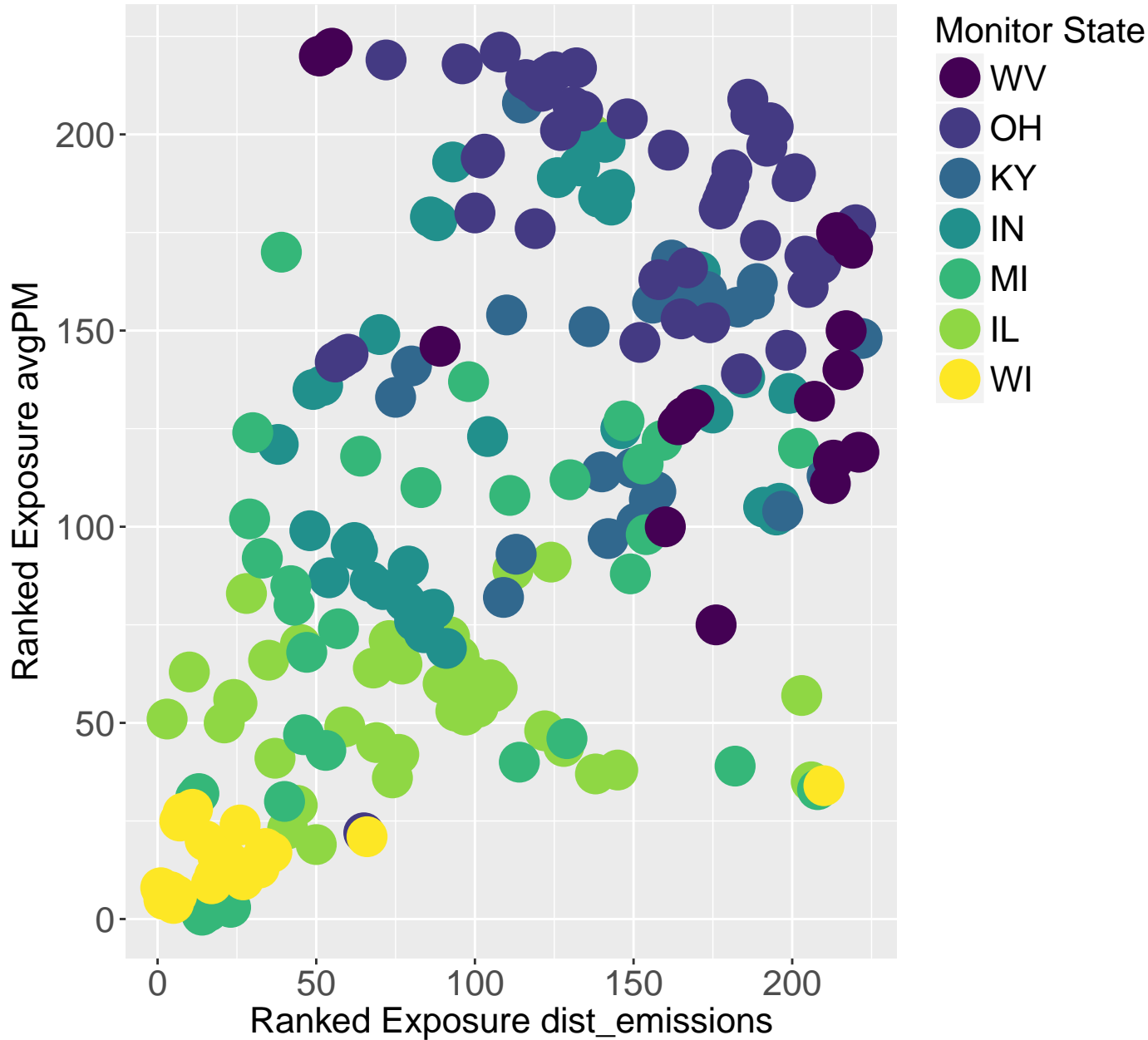
Monitor exposure:  
avgPM, decomposed75 year\_max5000\_temperature 2005



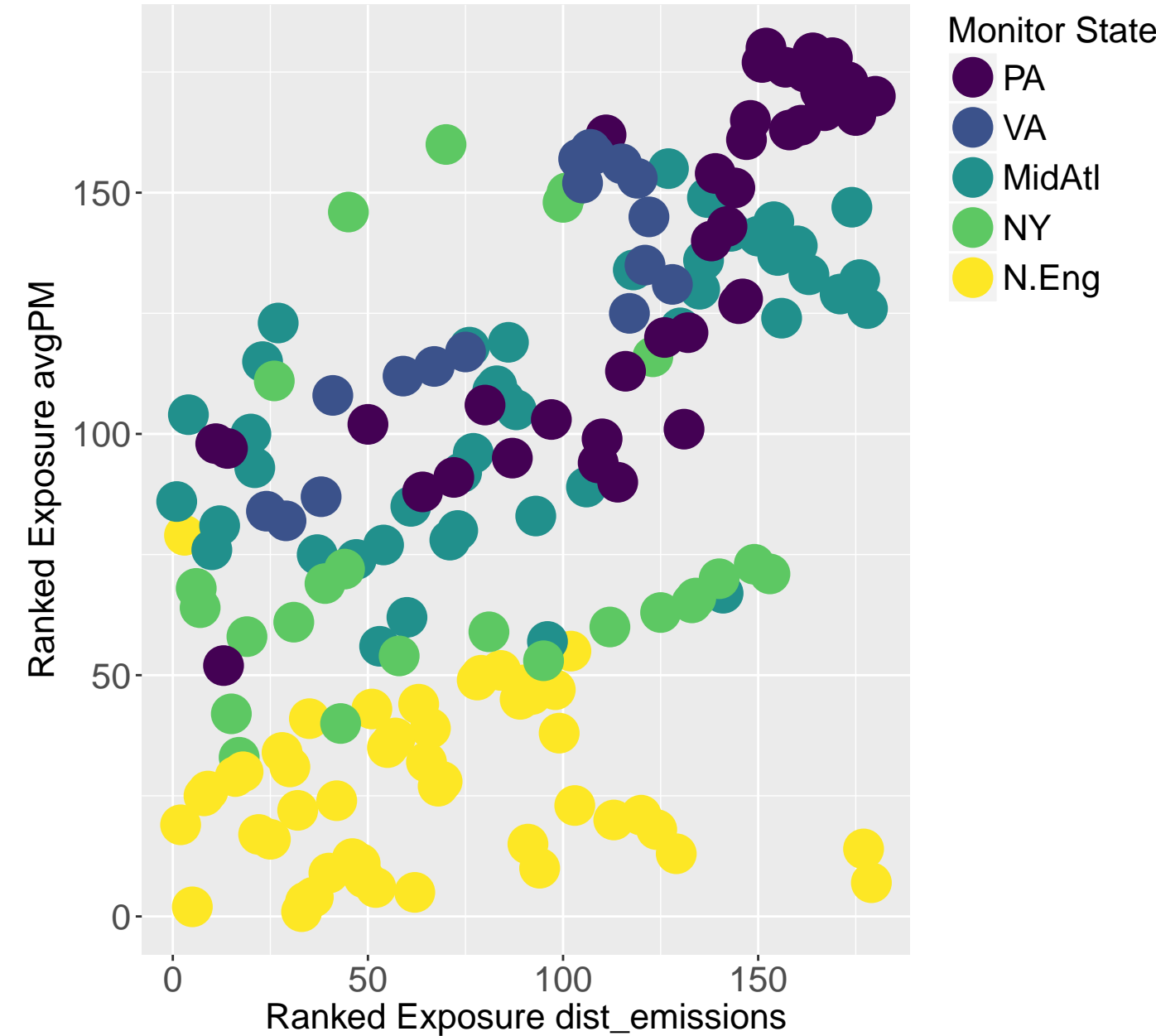
# Comparison of coal emissions exposure

(sum of  $(1/\log(\text{distance})) \cdot \text{avgemissions}$  vs. low freq PM)

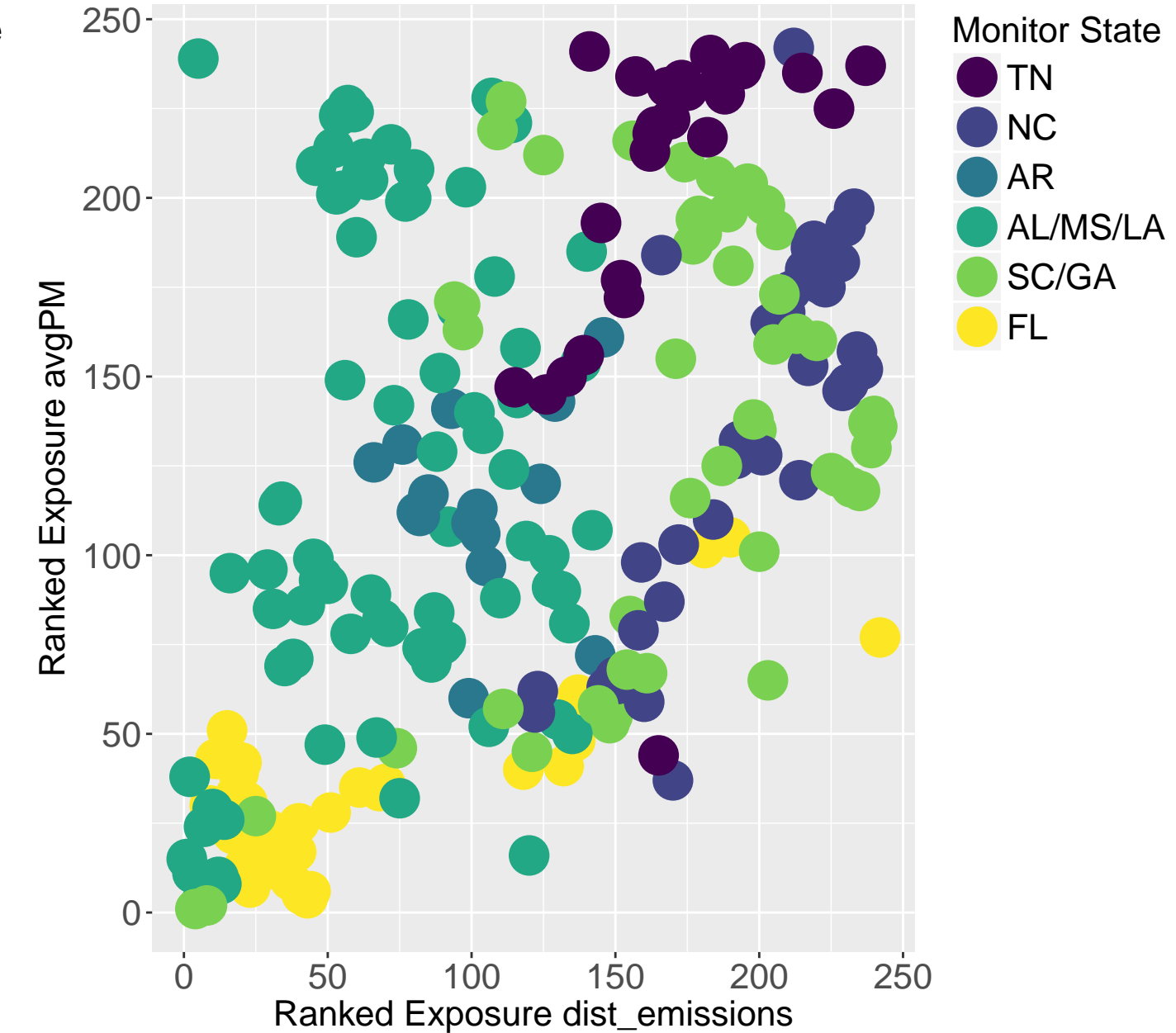
IndustrialMidwest Monitors  
(correlation = 0.56)



Northeast Monitors  
(correlation = 0.6)

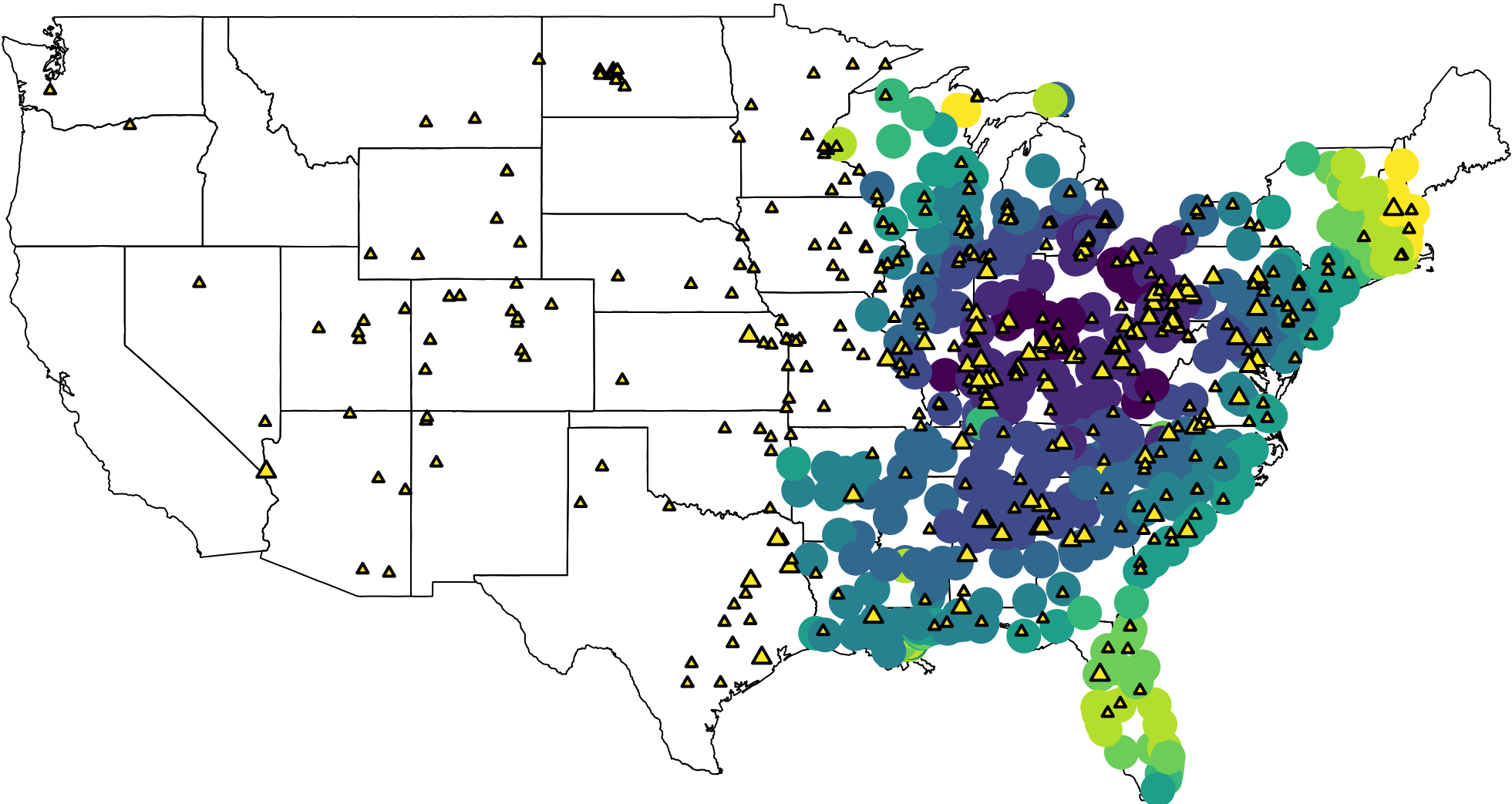
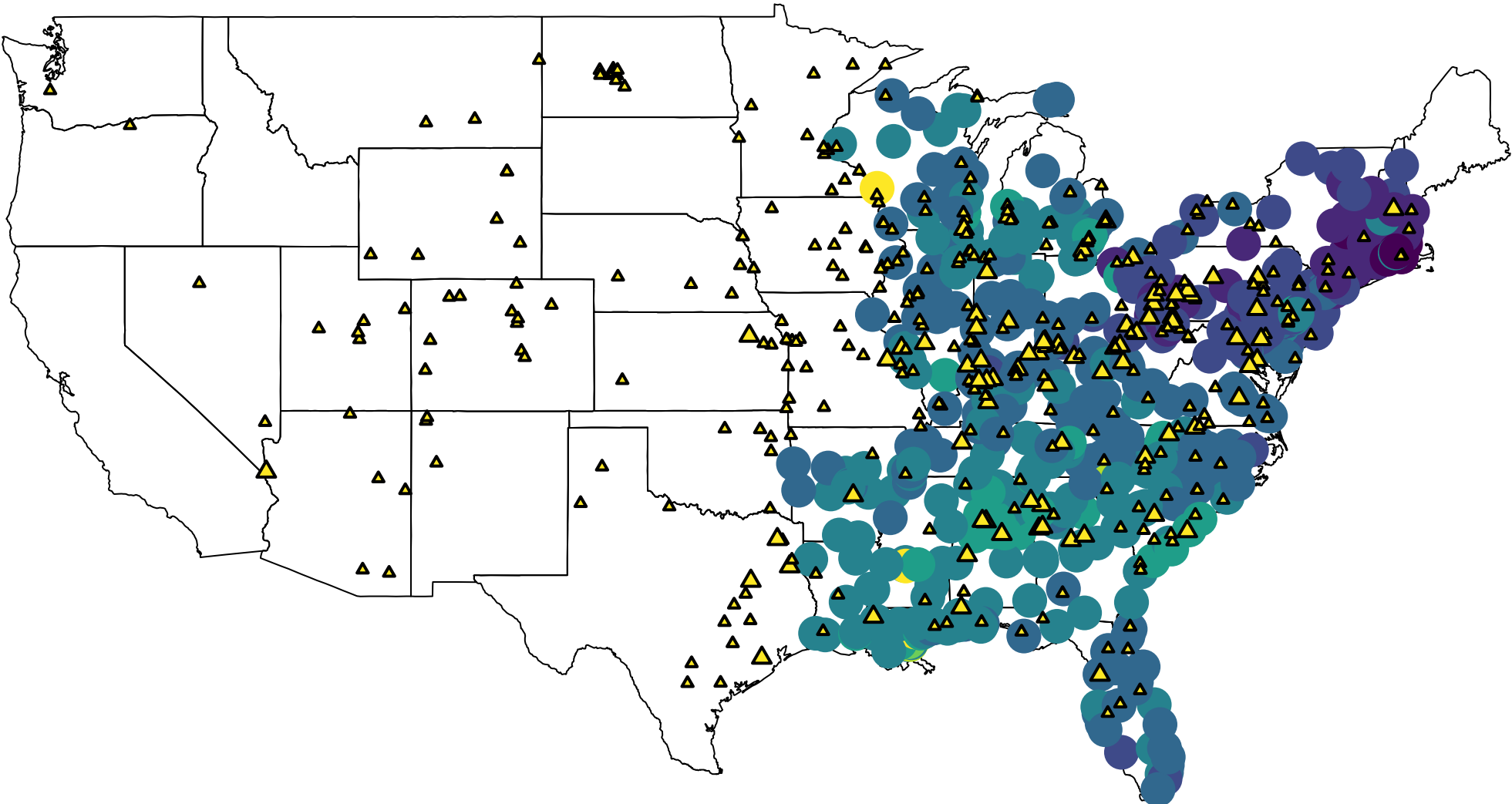


Southeast Monitors  
(correlation = 0.52)

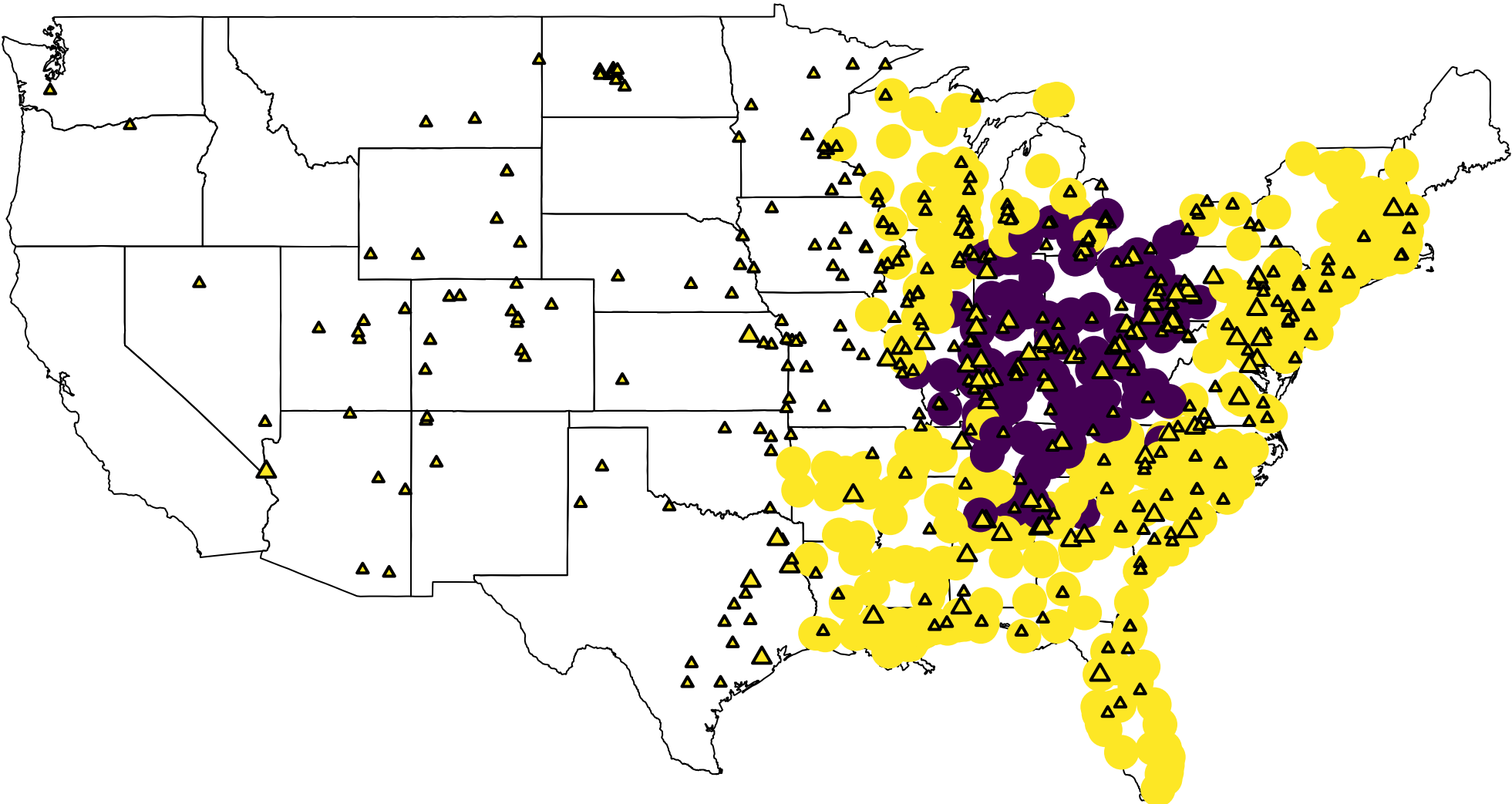
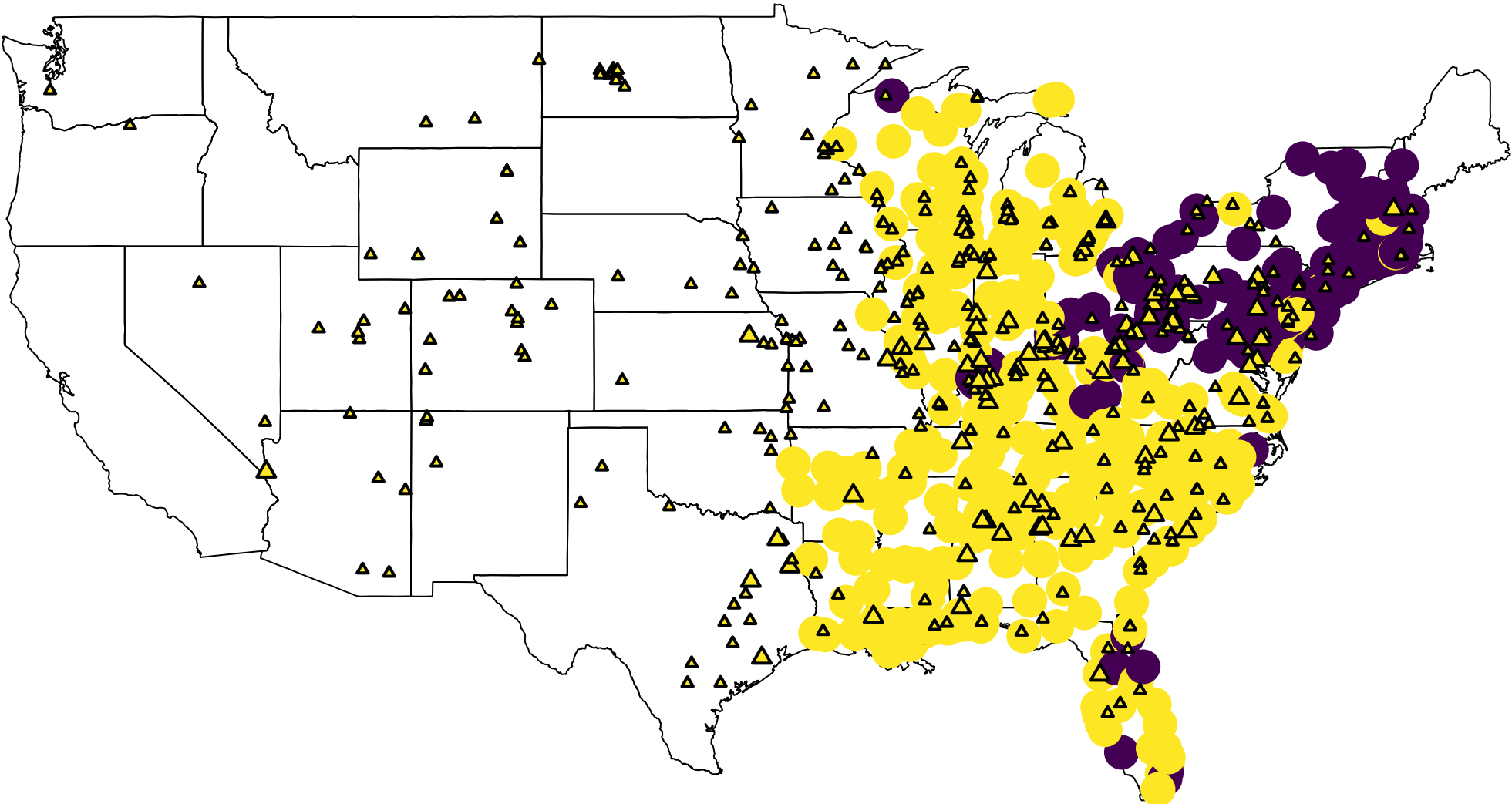




Monitor exposure: num\_edges, year\_max5000\_temperature 2005 | tor exposure: avgPM, decomposed75 year\_max5000\_temperature 200

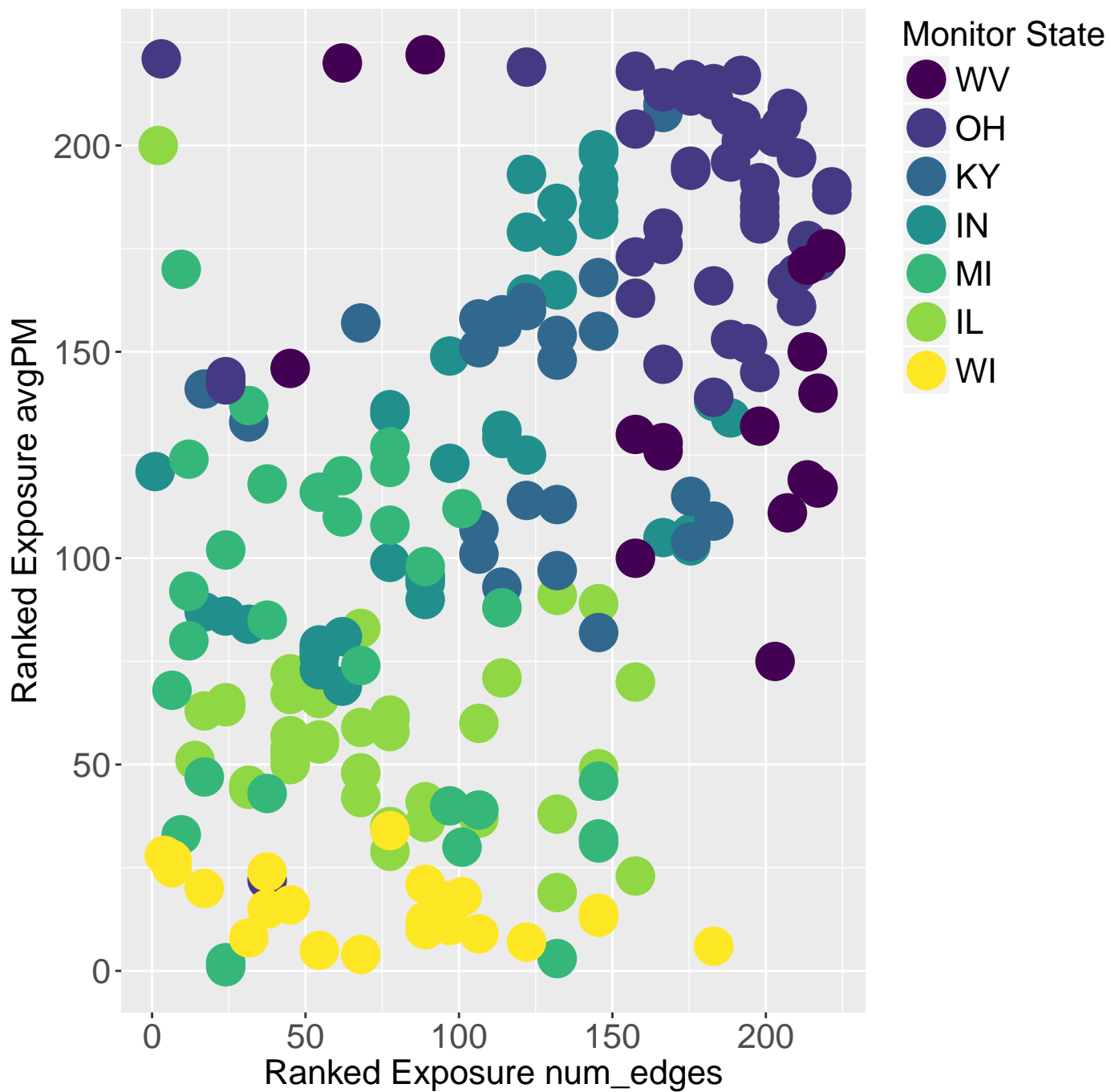


Highest exposed: num\_edges, year\_max5000\_temperature 2005    test exposed: avgPM, decomposed75 year\_max5000\_temperature 200

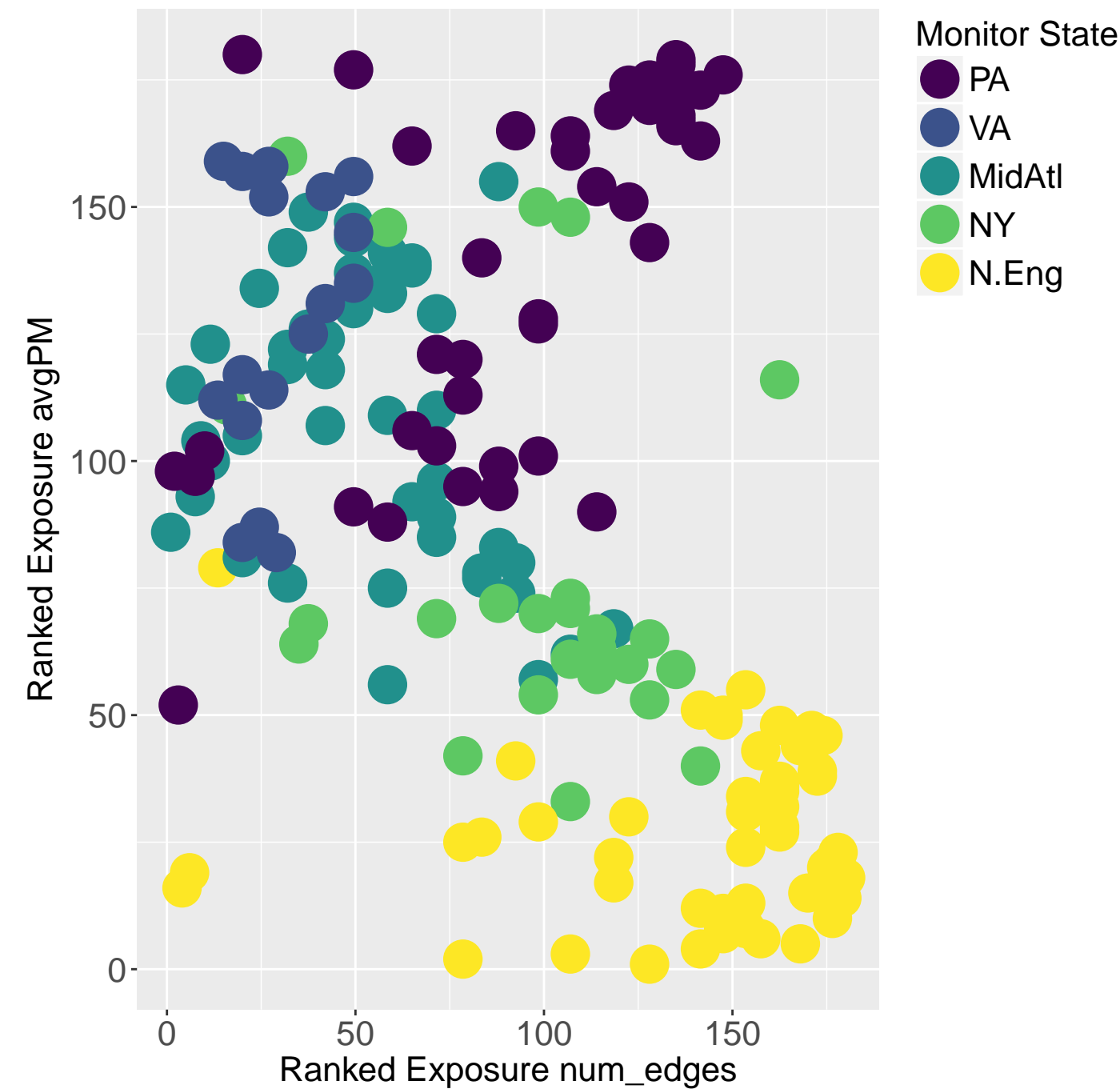


# Comparison of coal emissions exposure (num\_edges vs. low freq PM)

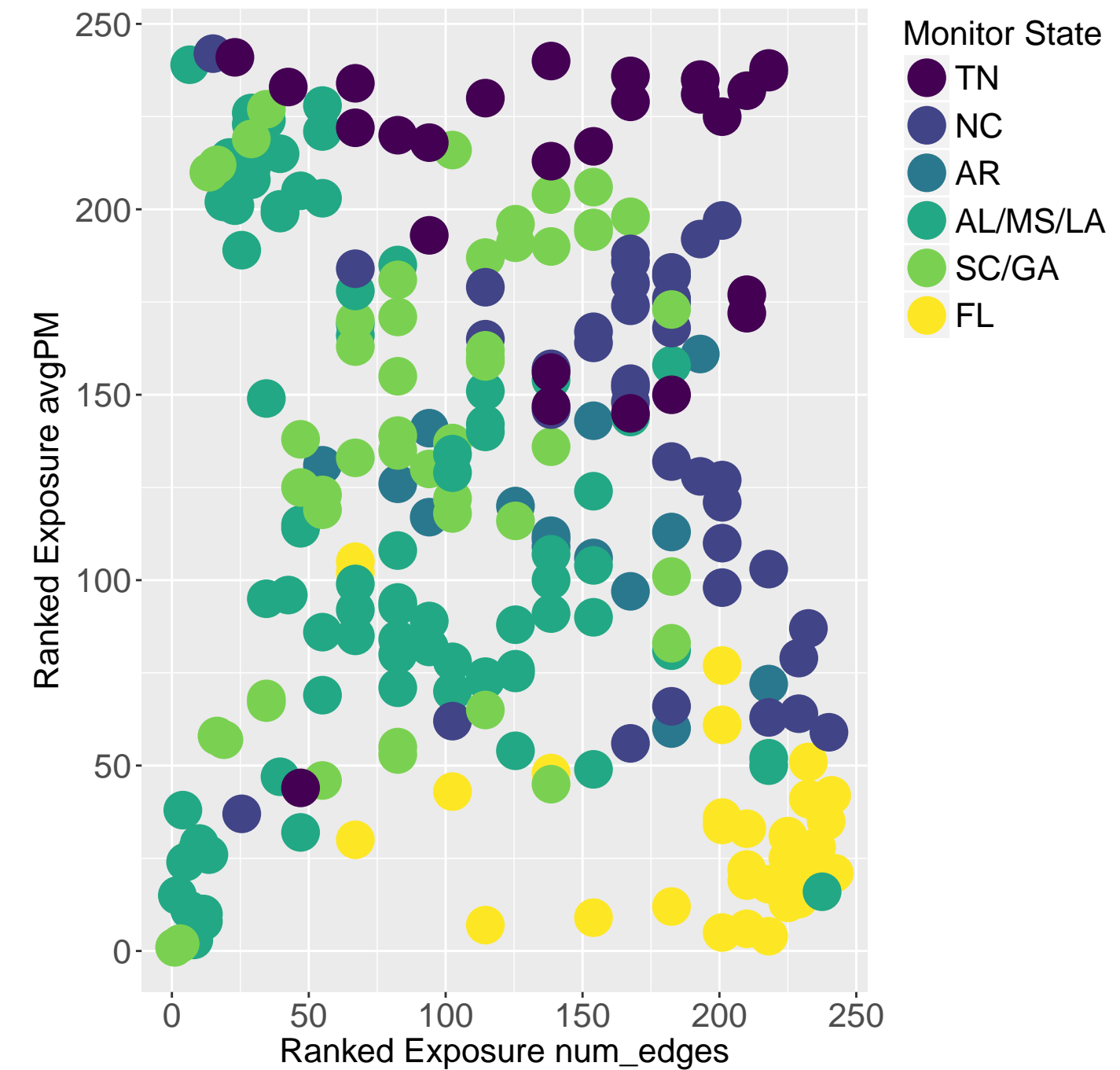
IndustrialMidwest Monitors  
(correlation = 0.53)



Northeast Monitors  
(correlation = -0.42)



Southeast Monitors  
(correlation = -0.19)





# Comparison of coal emissions exposure (avgemissions vs. low freq PM)

