US map of Power Plants and AQS monitors

- △ Large coal power plant
- △ Coal power plant
- ● AQS monitor

avgPM_summer_decomposed75

Large coal power plant
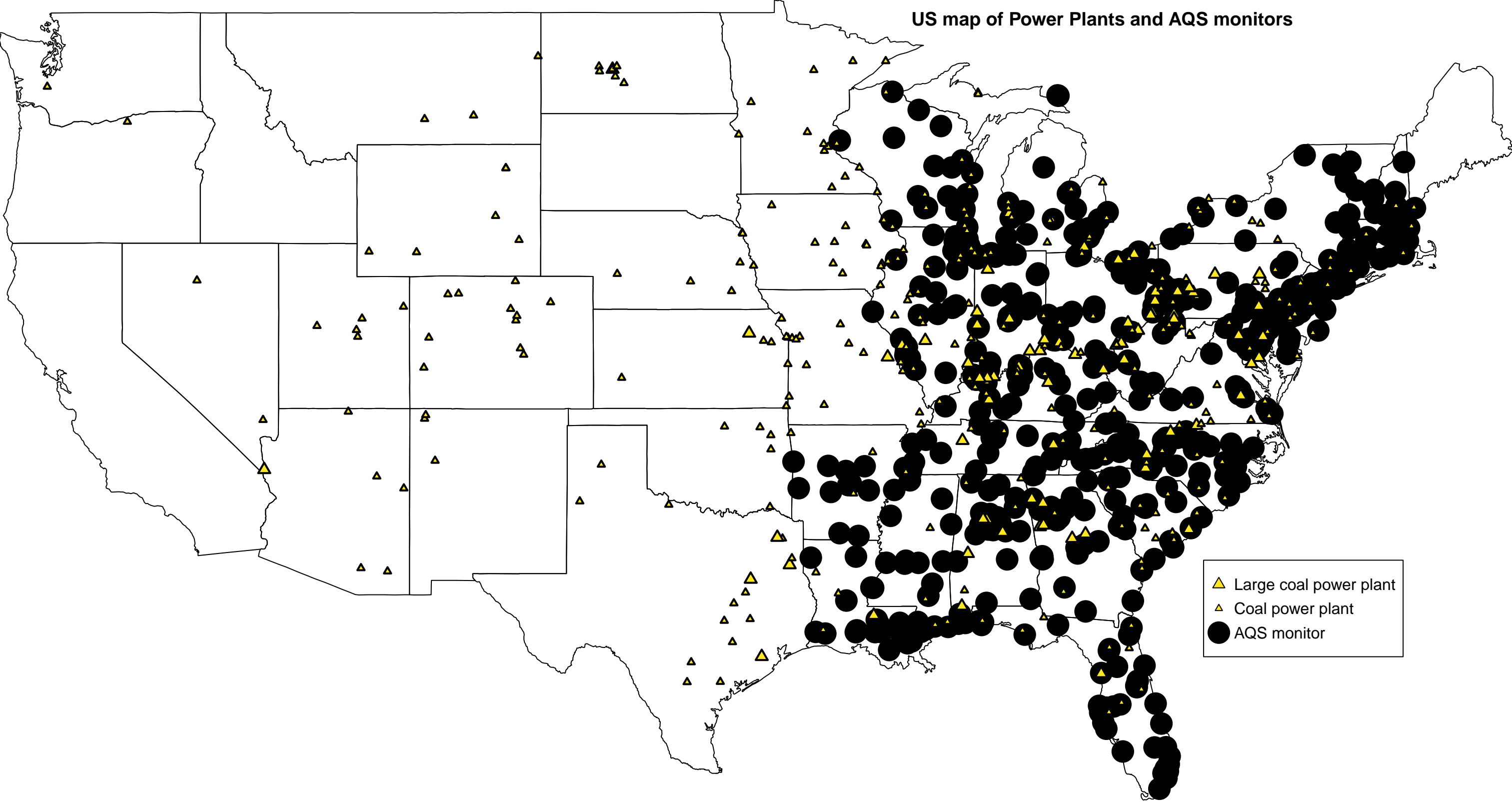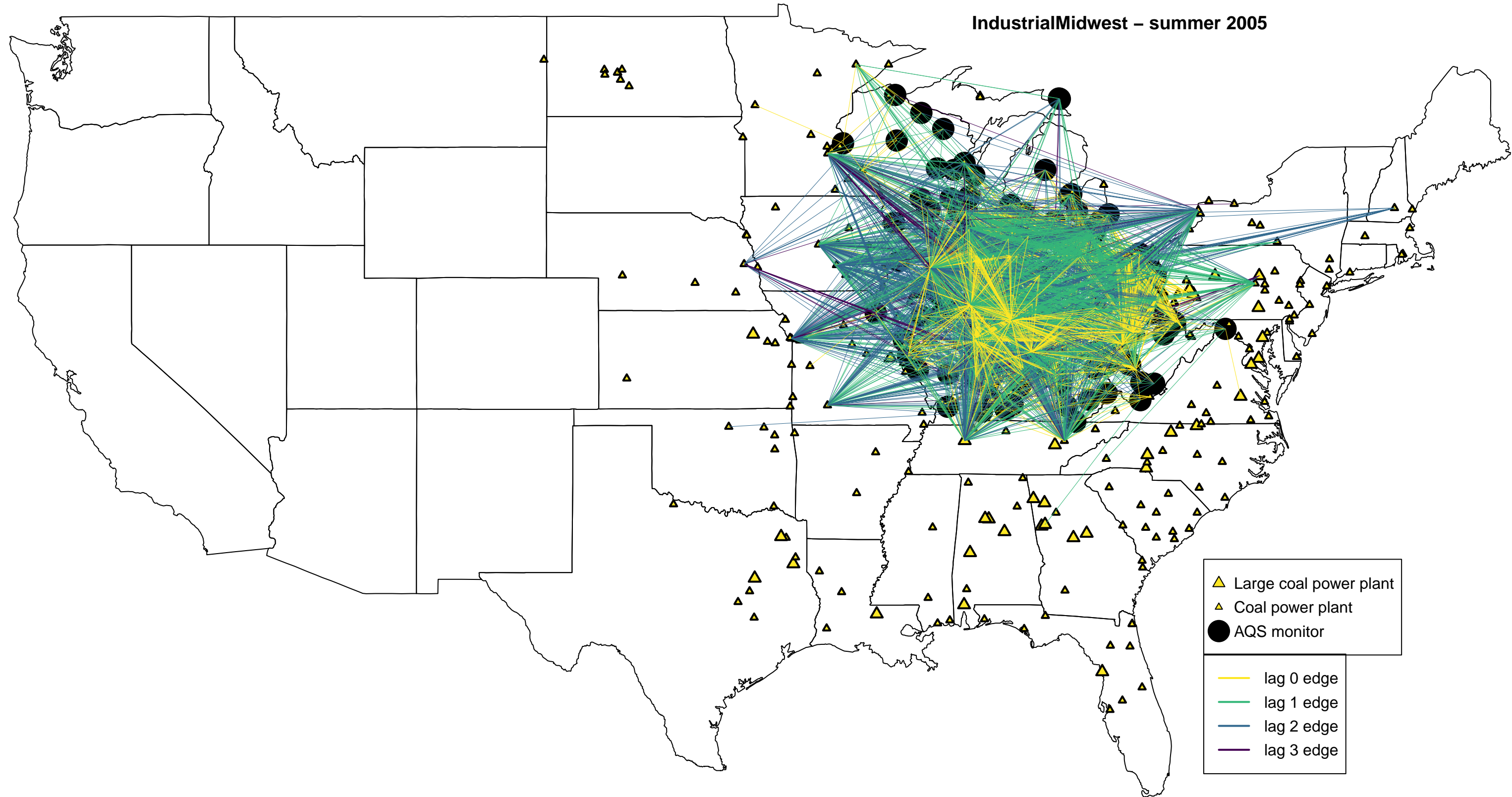Coal power plant
AQS monitor

Northeast – summer 2005

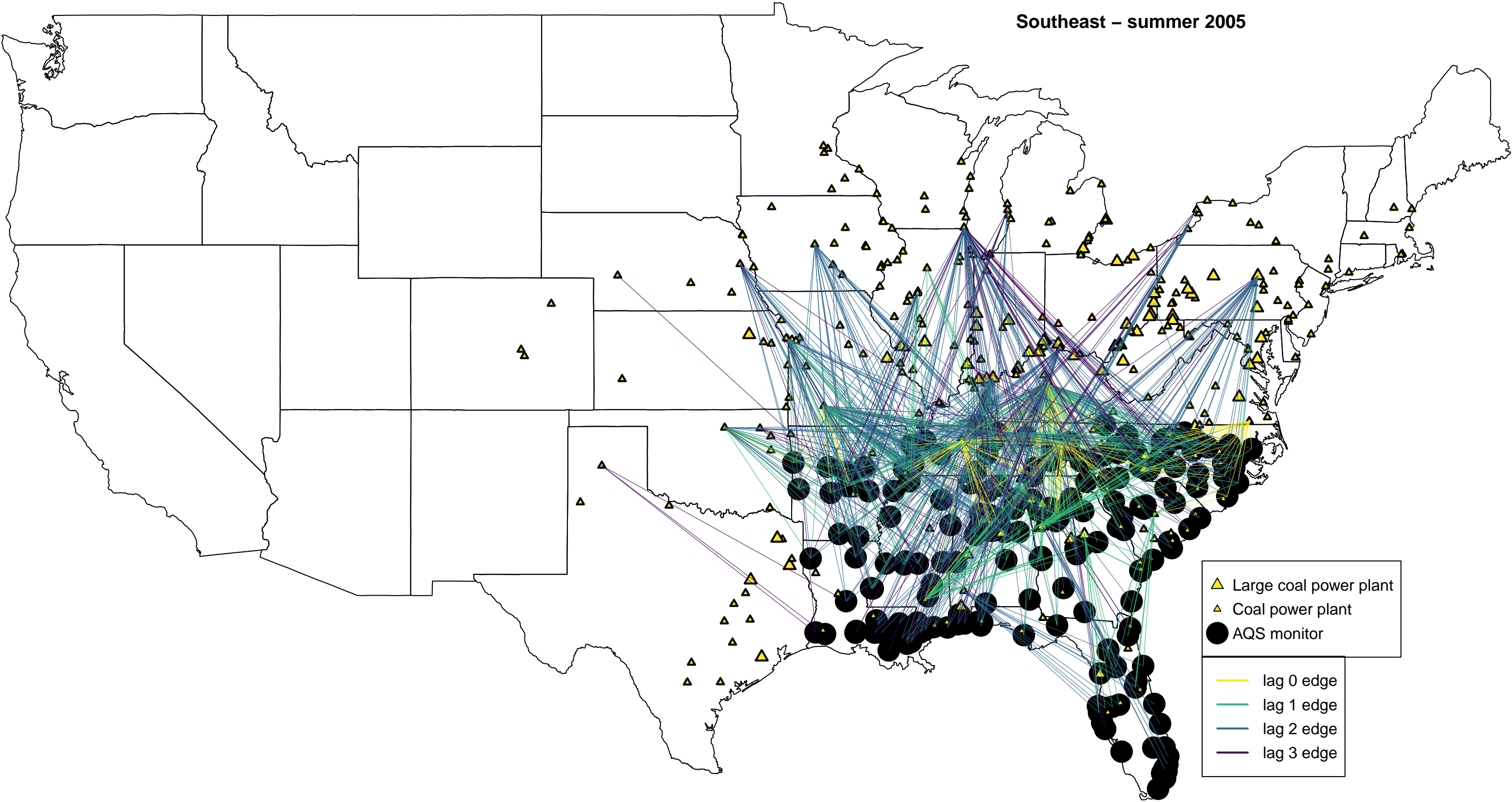Large coal power plant
Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
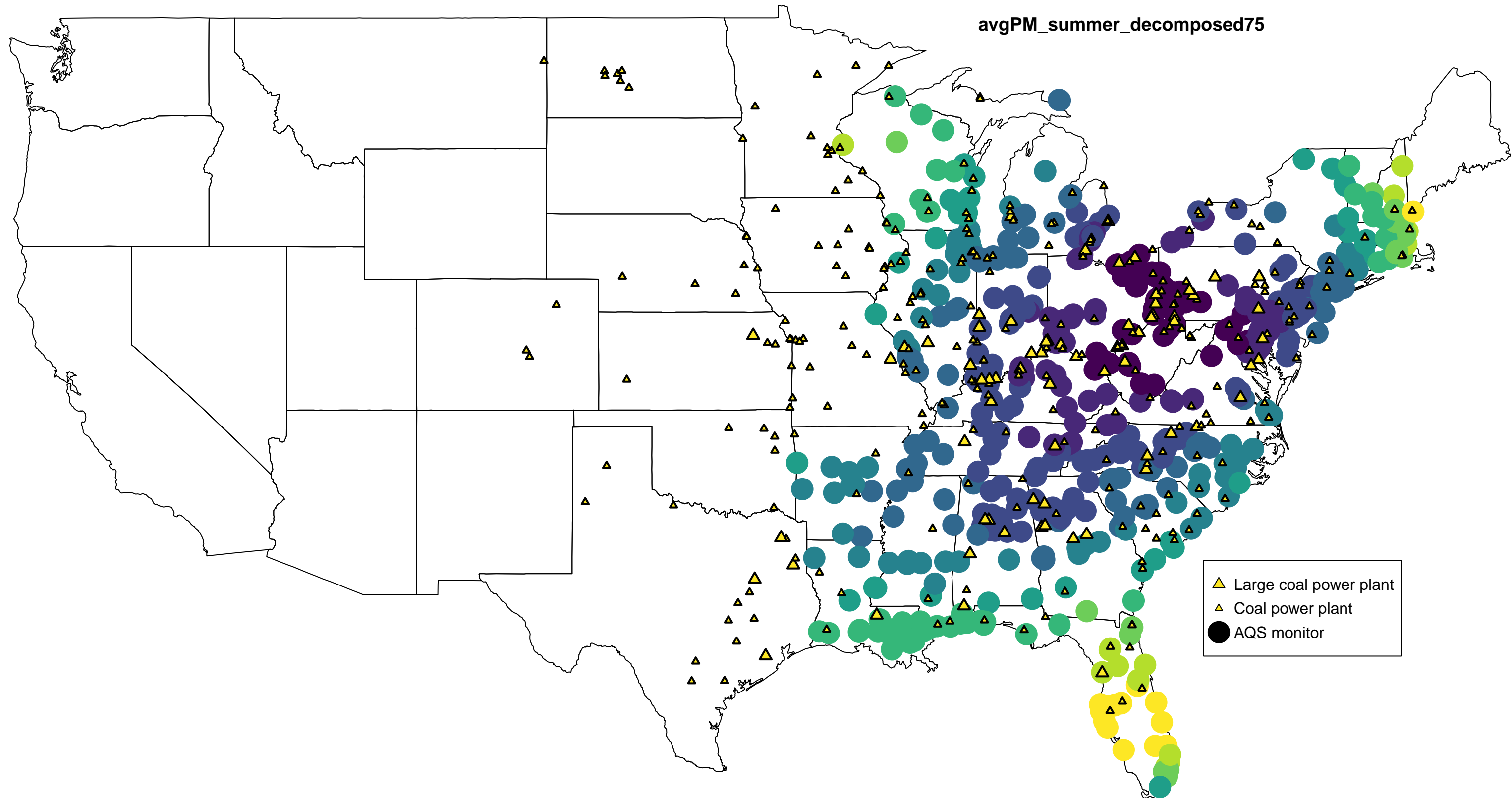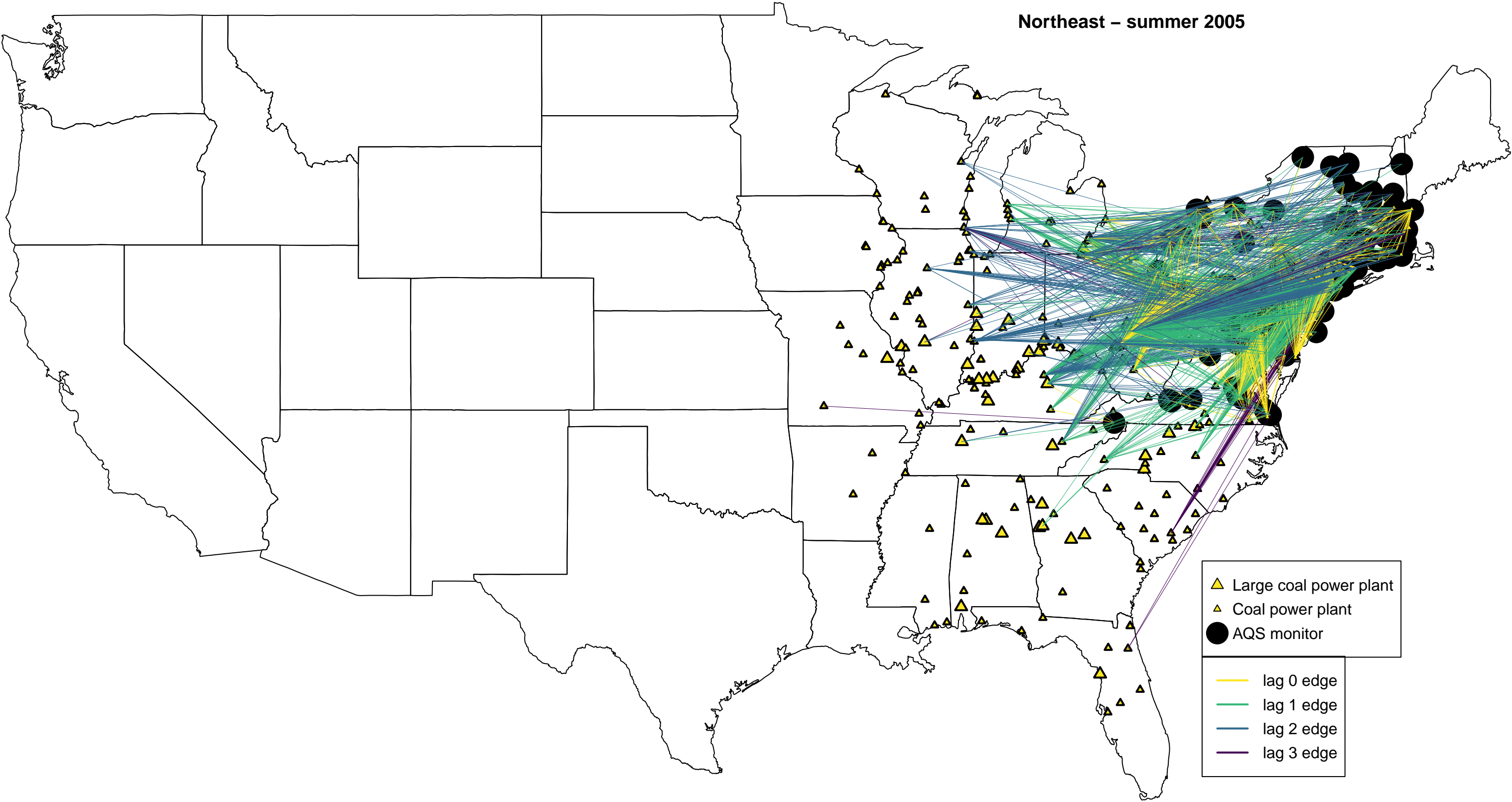
IndustrialMidwest – summer 2005

Large coal power plant
Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge

Southeast – summer 2005

Large coal power plant
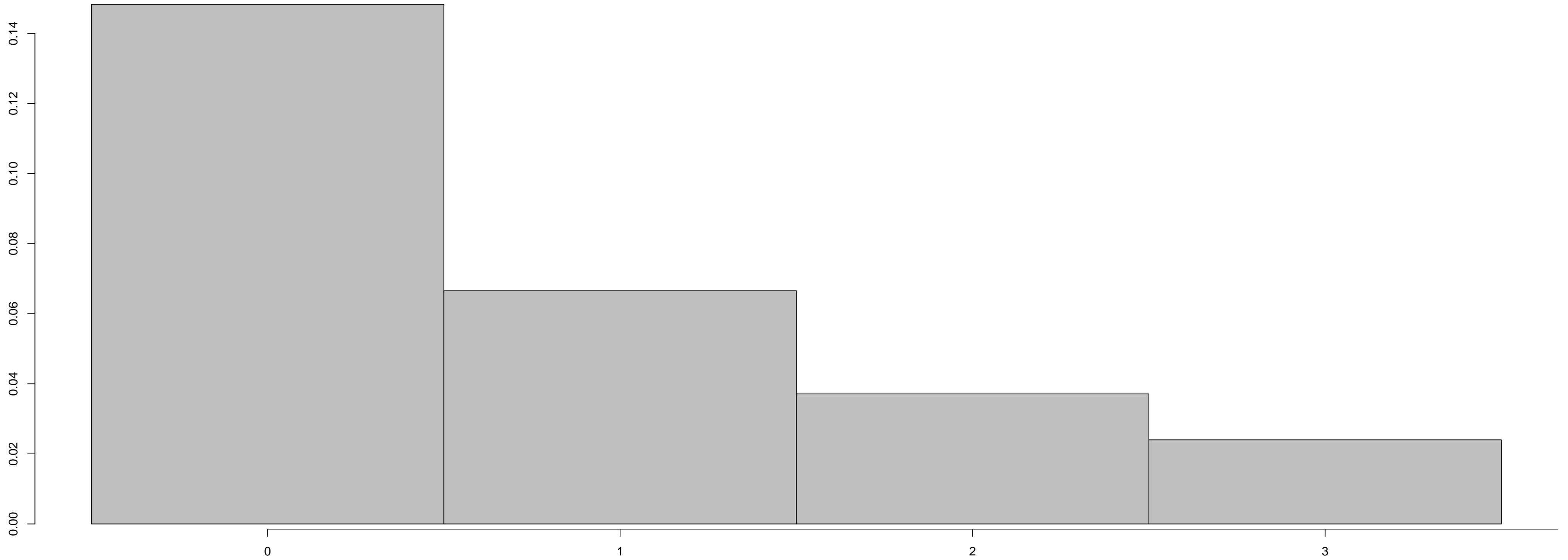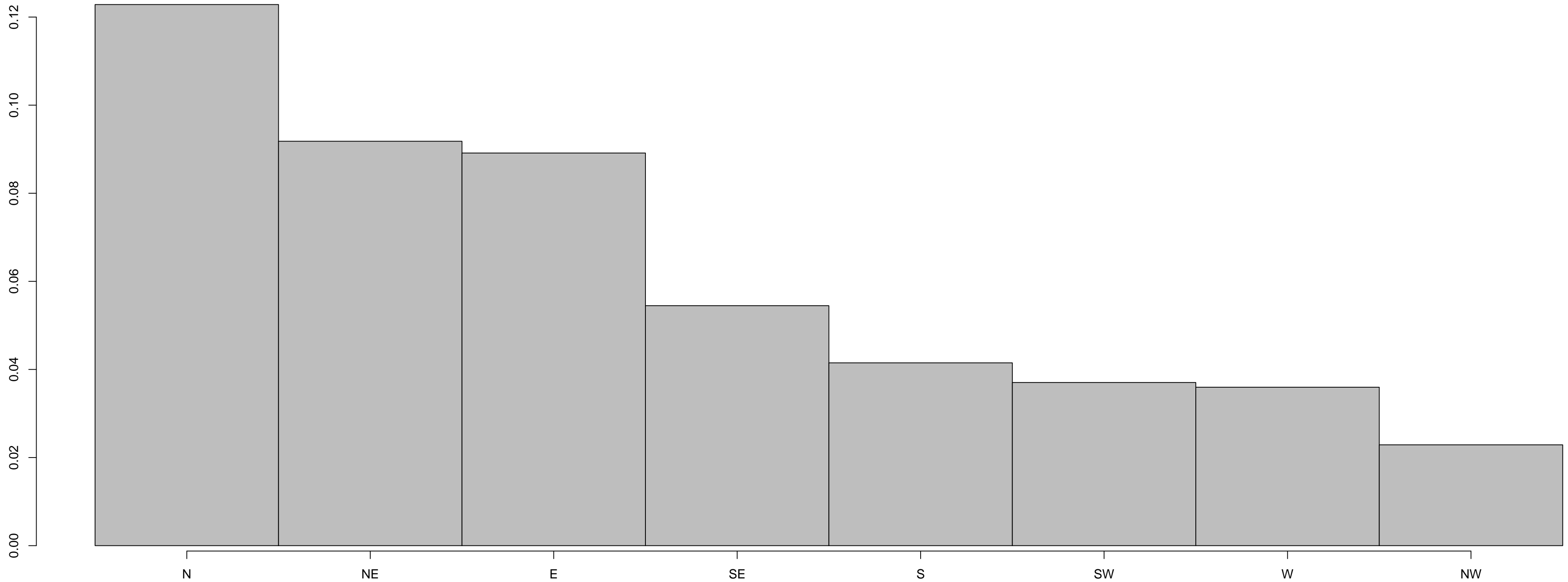Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
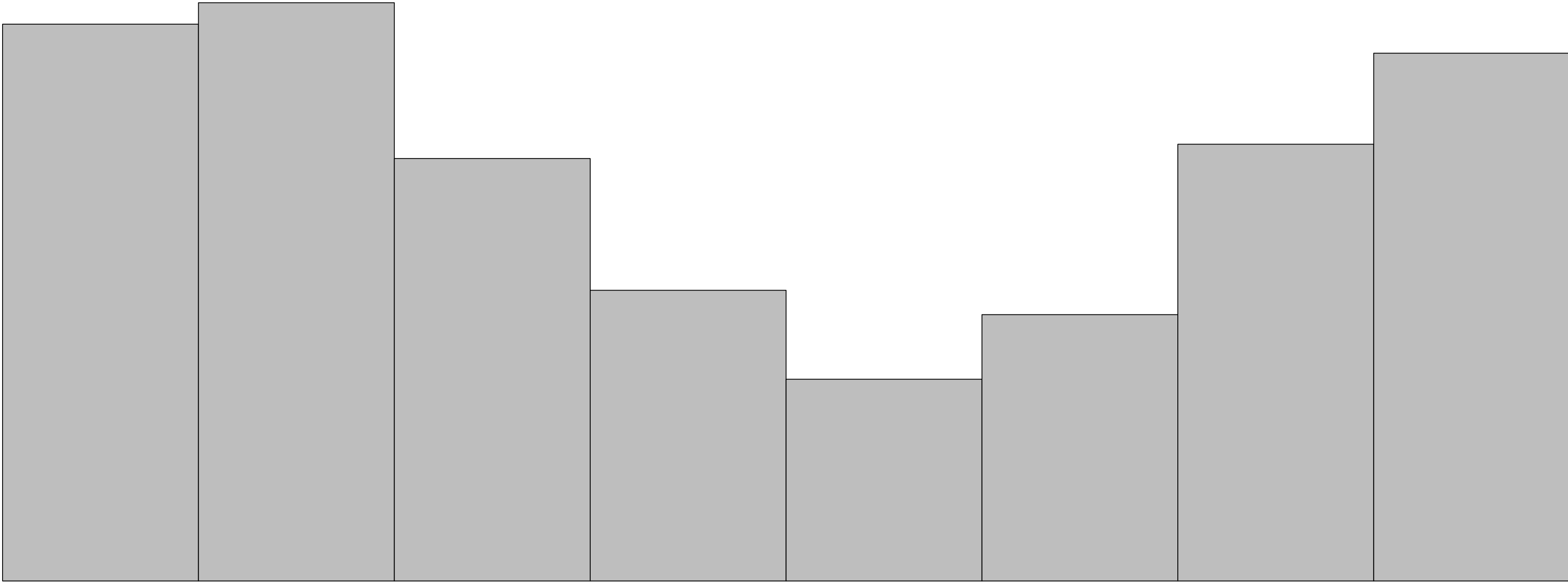lag 3 edge

Edge Probability by Lag

Edge Probability by Direction from Power Plant to Receptor (Northeast Power Plants)

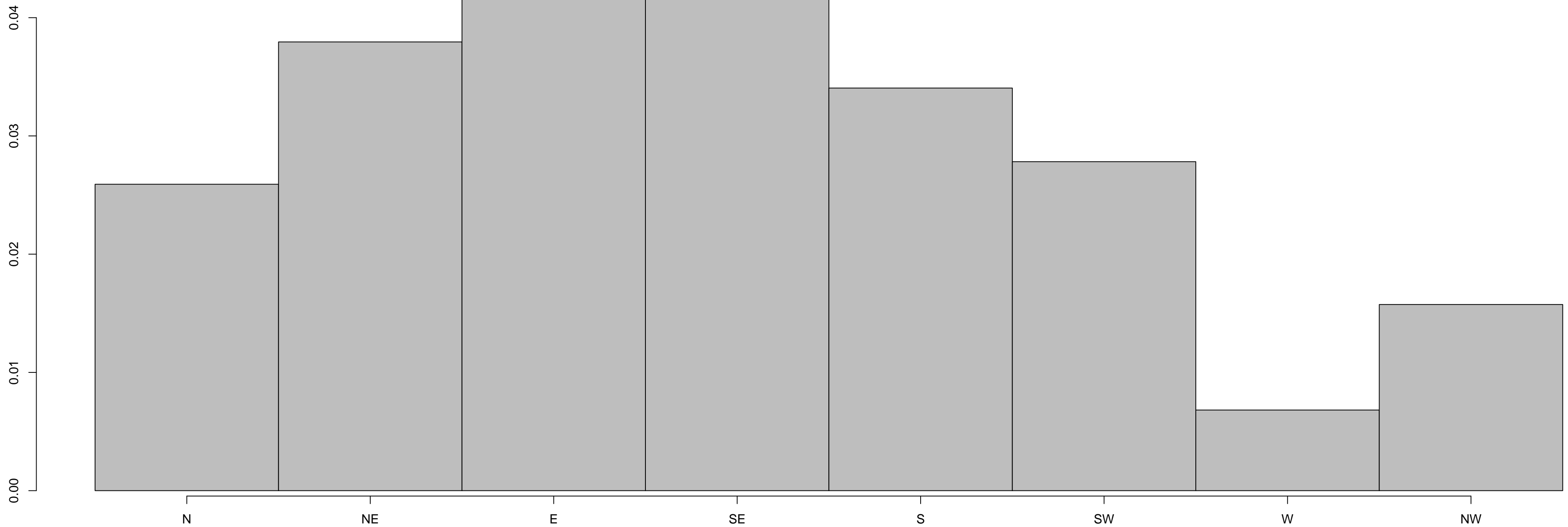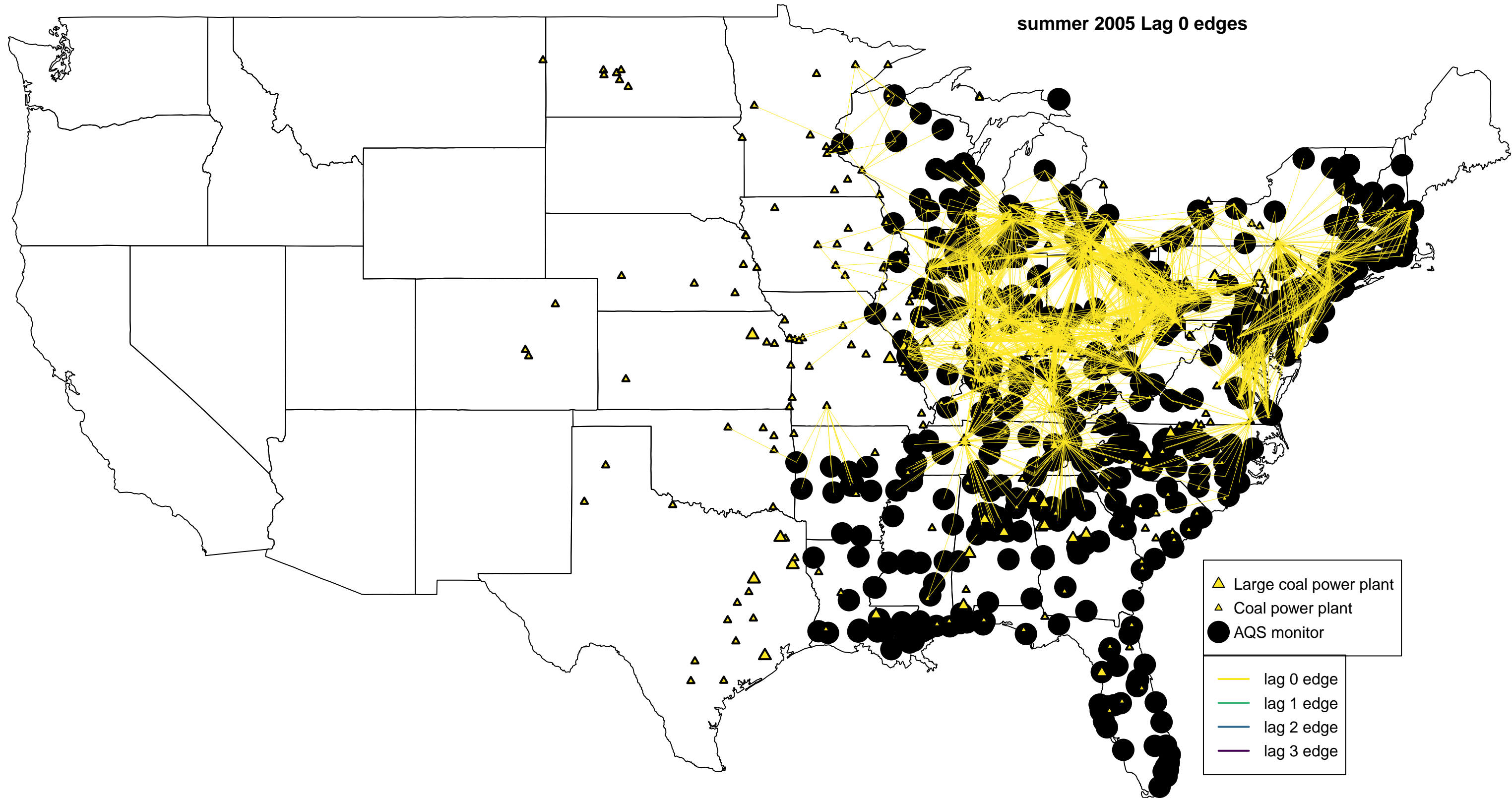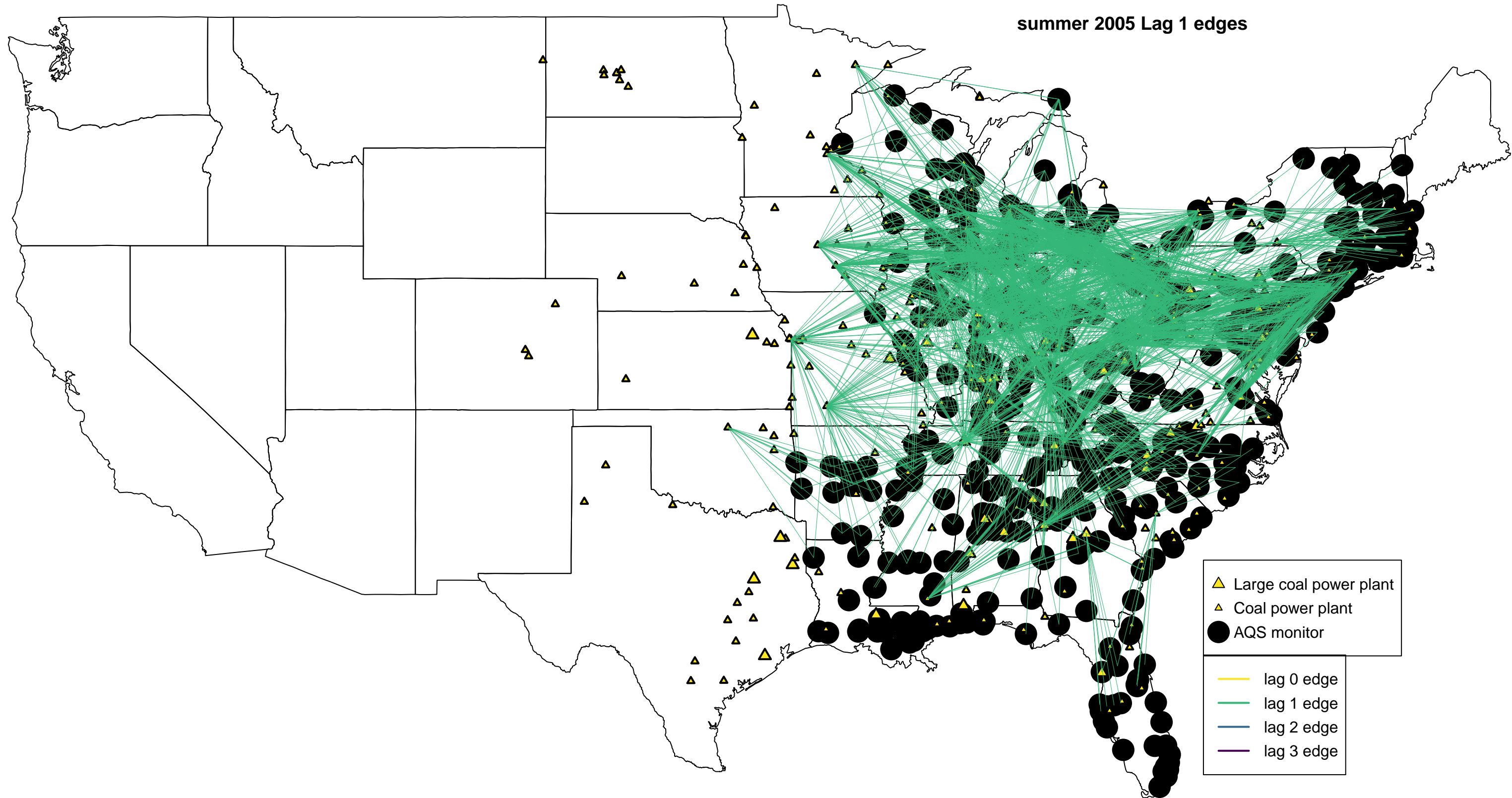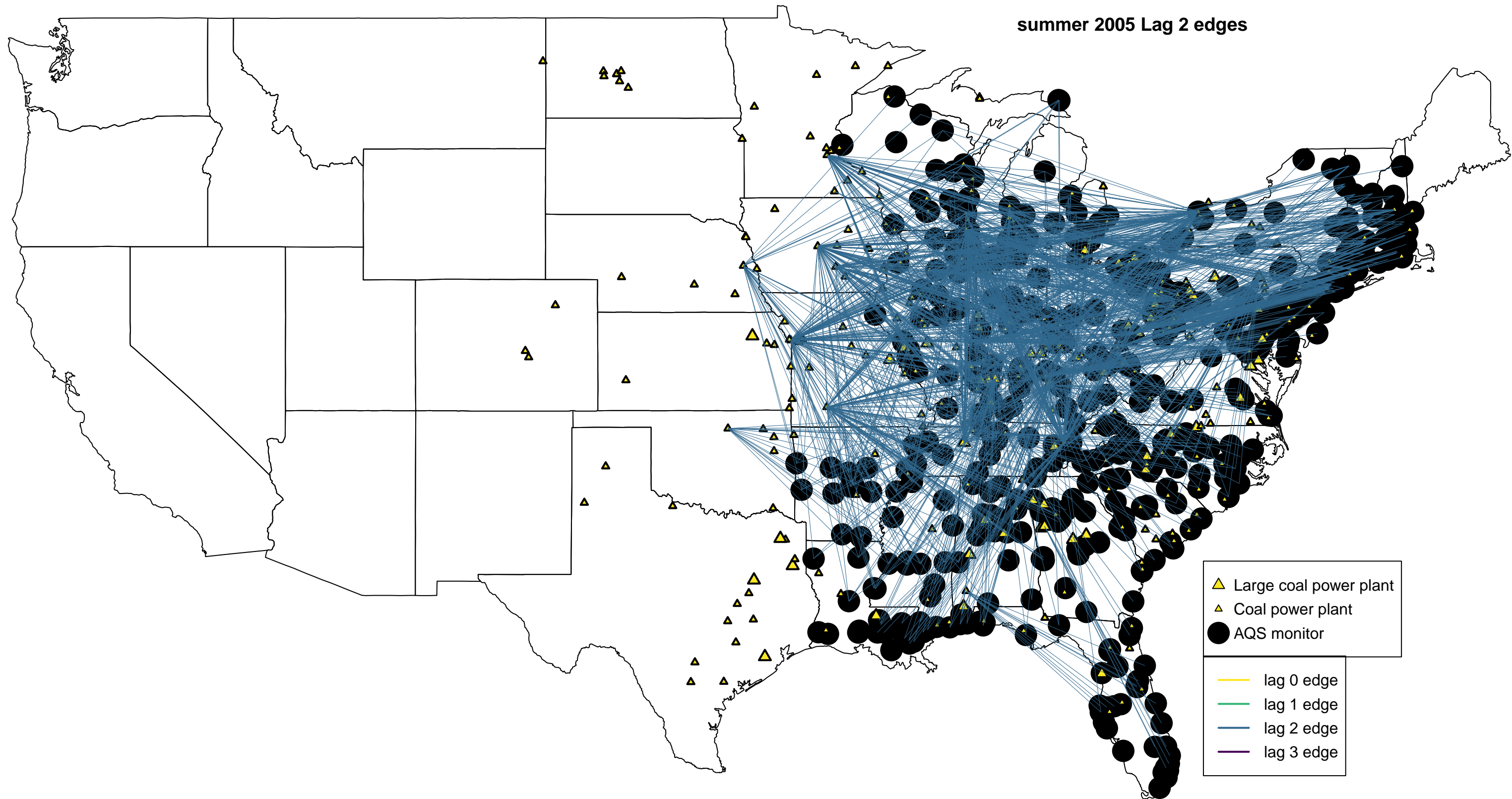Edge Probability by Direction from Power Plant to Receptor (IndustrialMidwest Power Plants)

Edge Probability by Direction from Power Plant to Receptor (Southeast Power Plants)

summer 2005 Lag 0 edges

Large coal power plant
Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge

summer 2005 Lag 1 edges

Large coal power plant
Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge

summer 2005 Lag 2 edges

Large coal power plant
Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge

summer 2005 Lag 3 edges
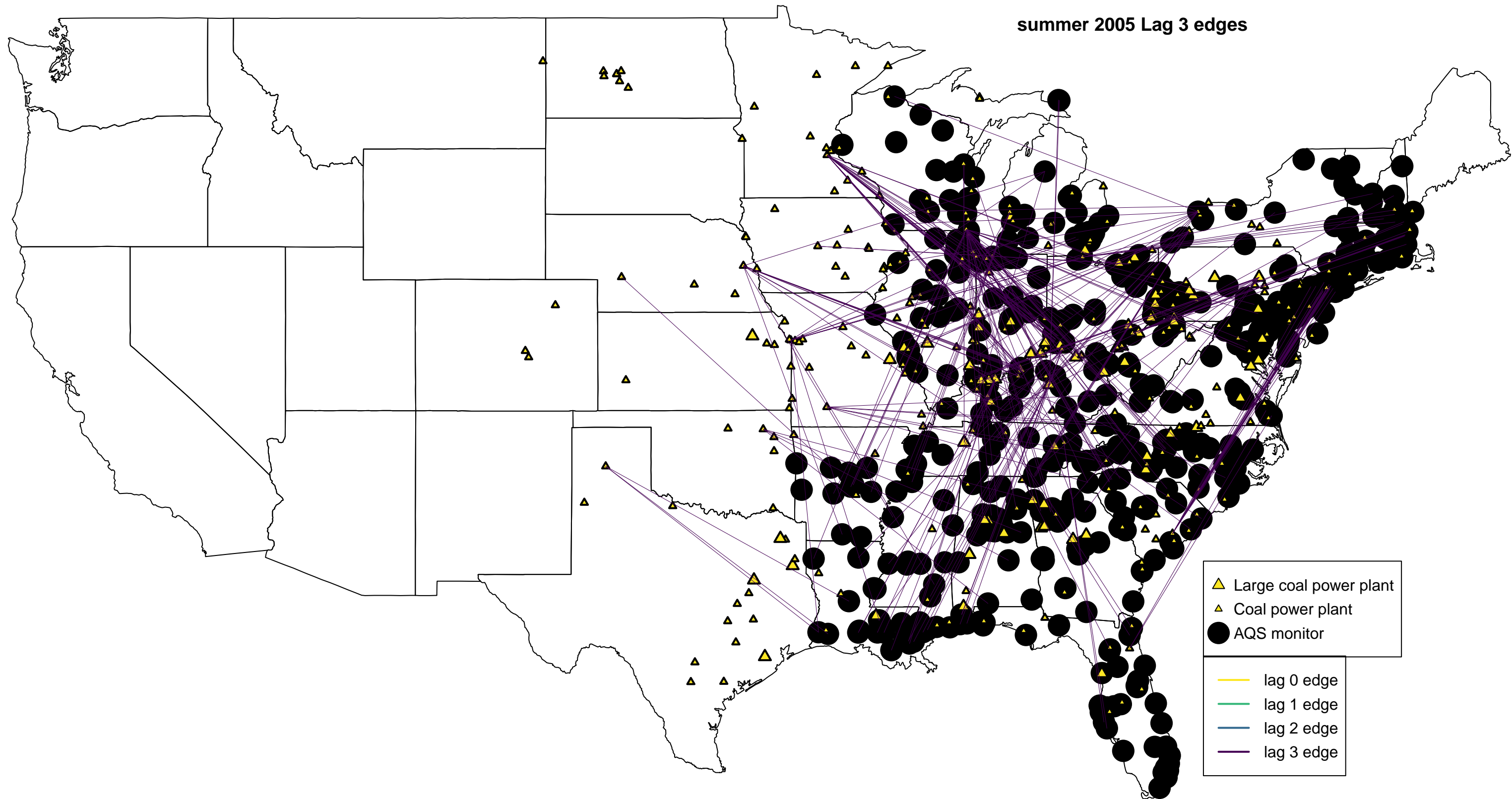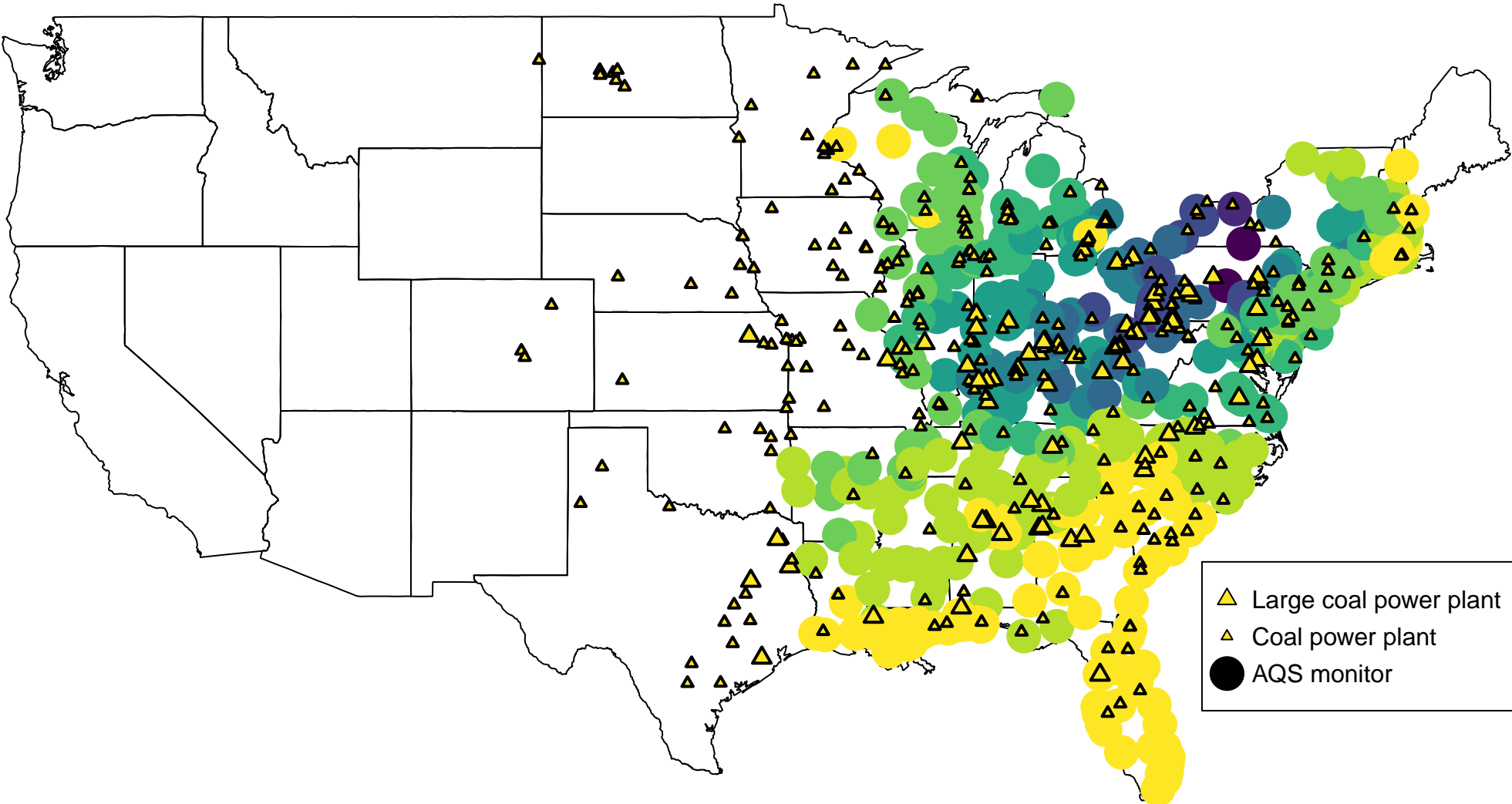
Large coal power plant
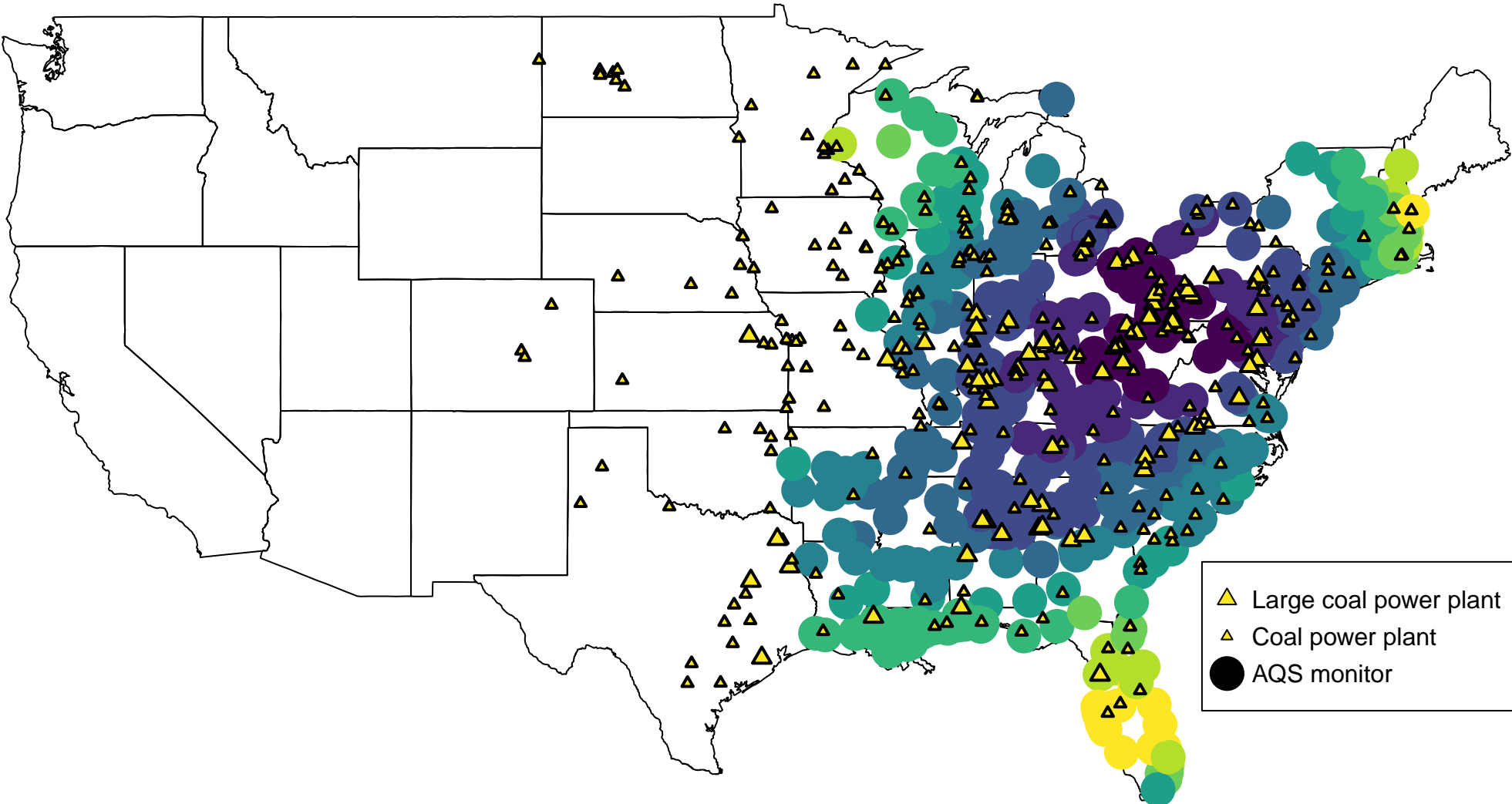Coal power plant
AQS monitor

lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge

sum of gams.coeff summer 2005

avgPM_decomposed75 summer 2005
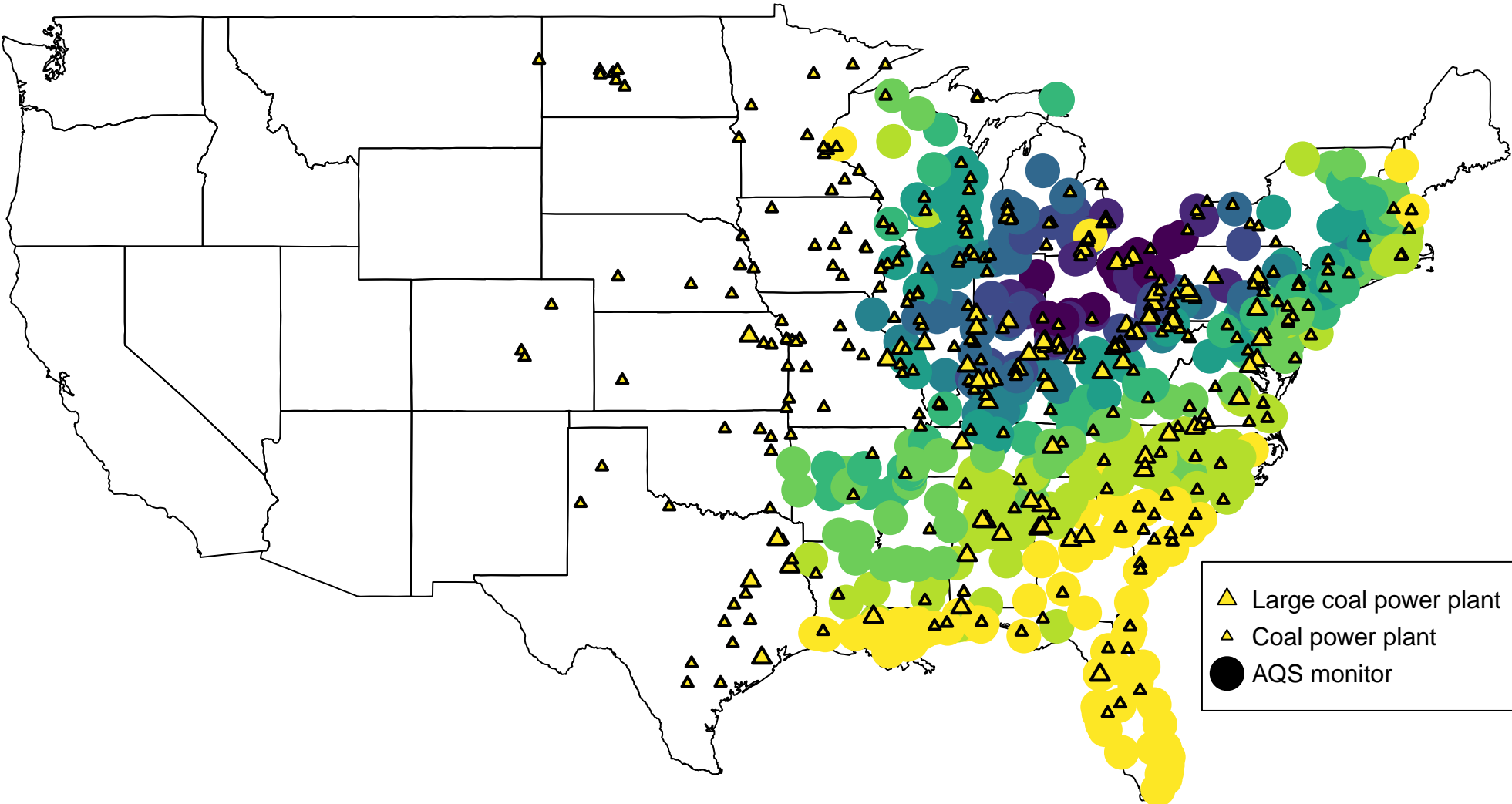
Large coal power plant
Coal power plant
AQS monitor

sum of gams.coeff summer 2005

avgPM_decomposed75 summer 2005

Legend:
- △ Large coal power plant
- △ Coal power plant
- ● High−exposed location
- ● Low−exposed location

num_edges summer 2005

Legend (left map):
- △ Large coal power plant
- △ Coal power plant
- ● AQS monitor

num_edges summer 2005

Legend (right map):
- △ Large coal power plant
- △ Coal power plant
- ● High−exposed location
- ● Low−exposed location
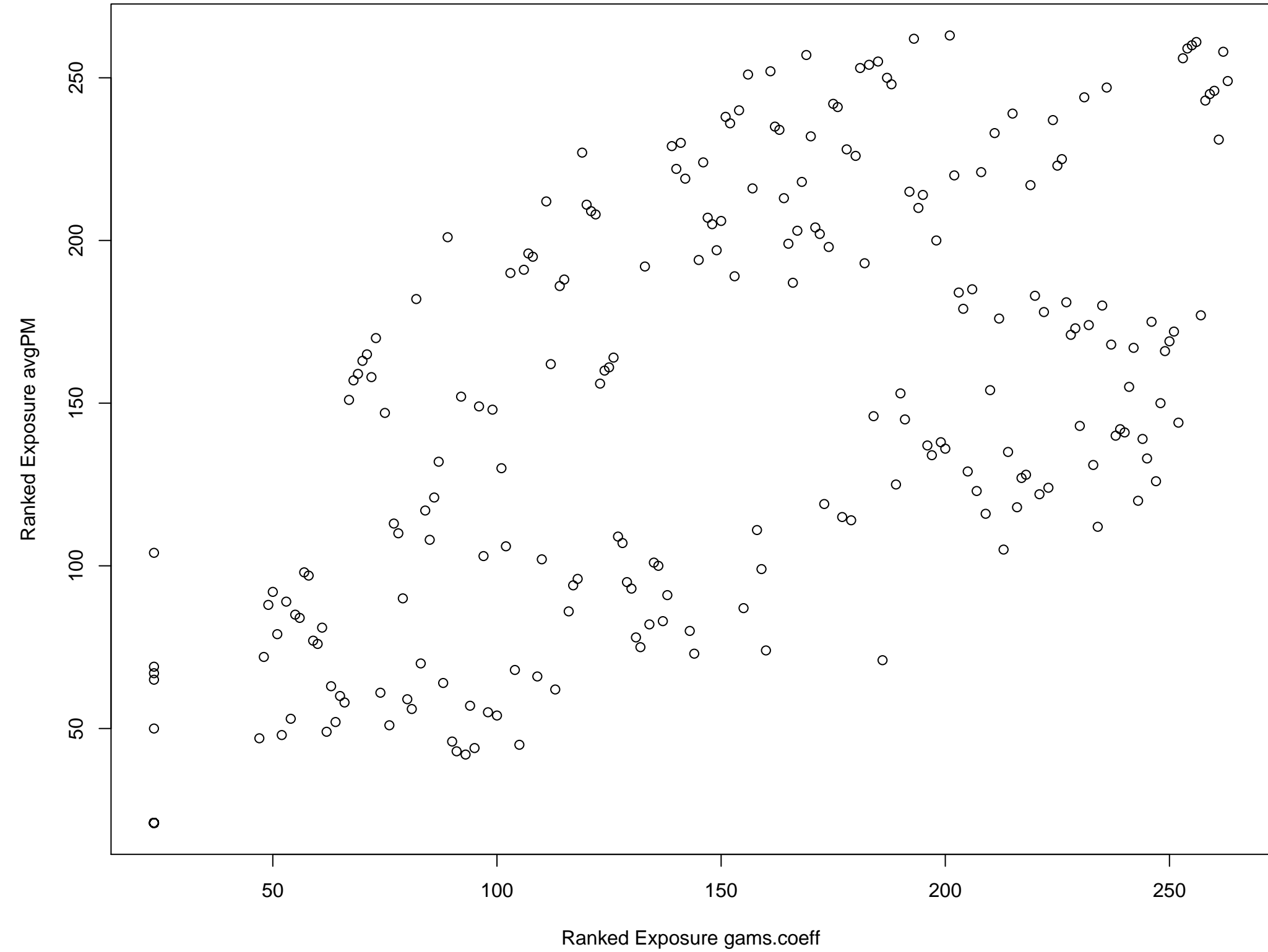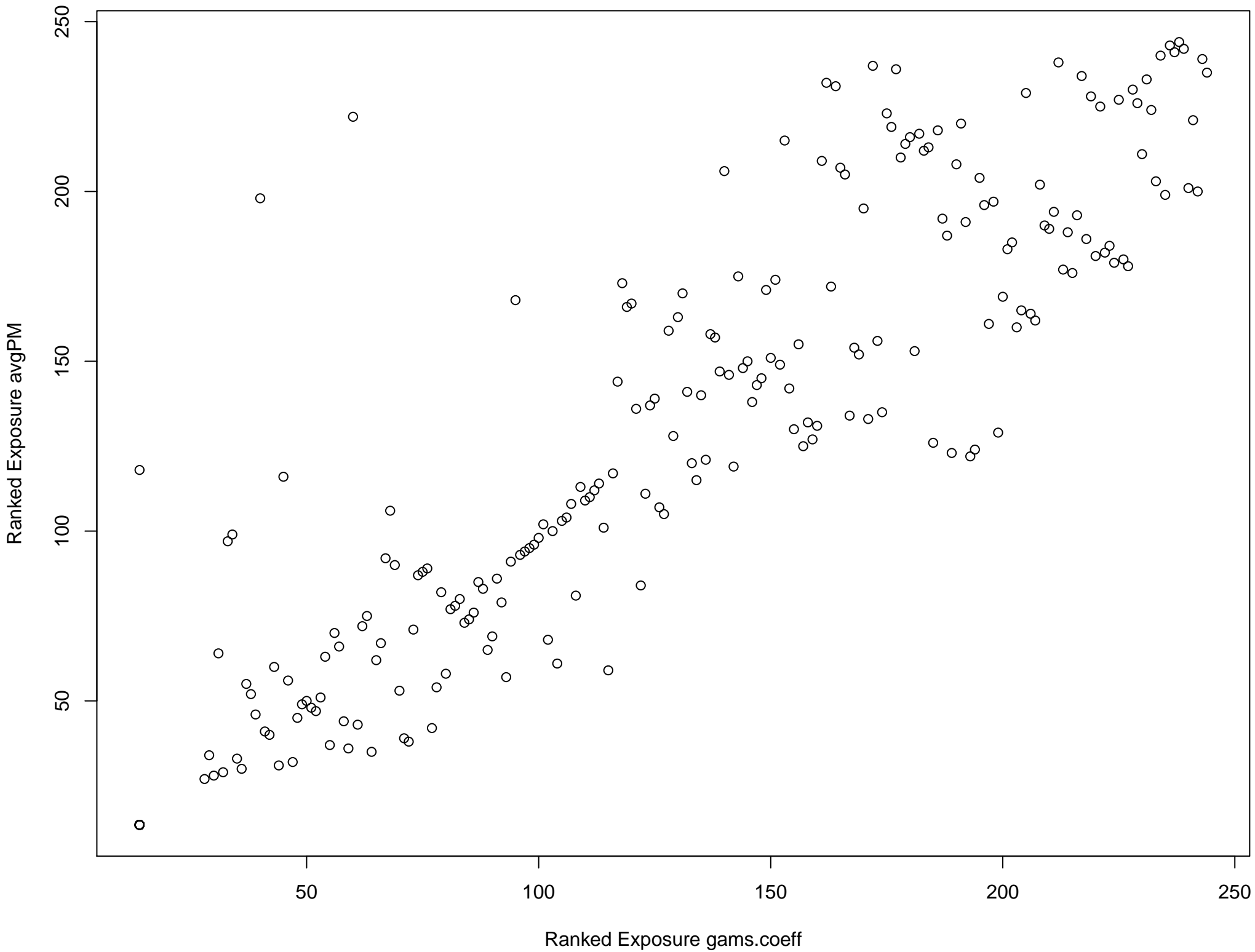
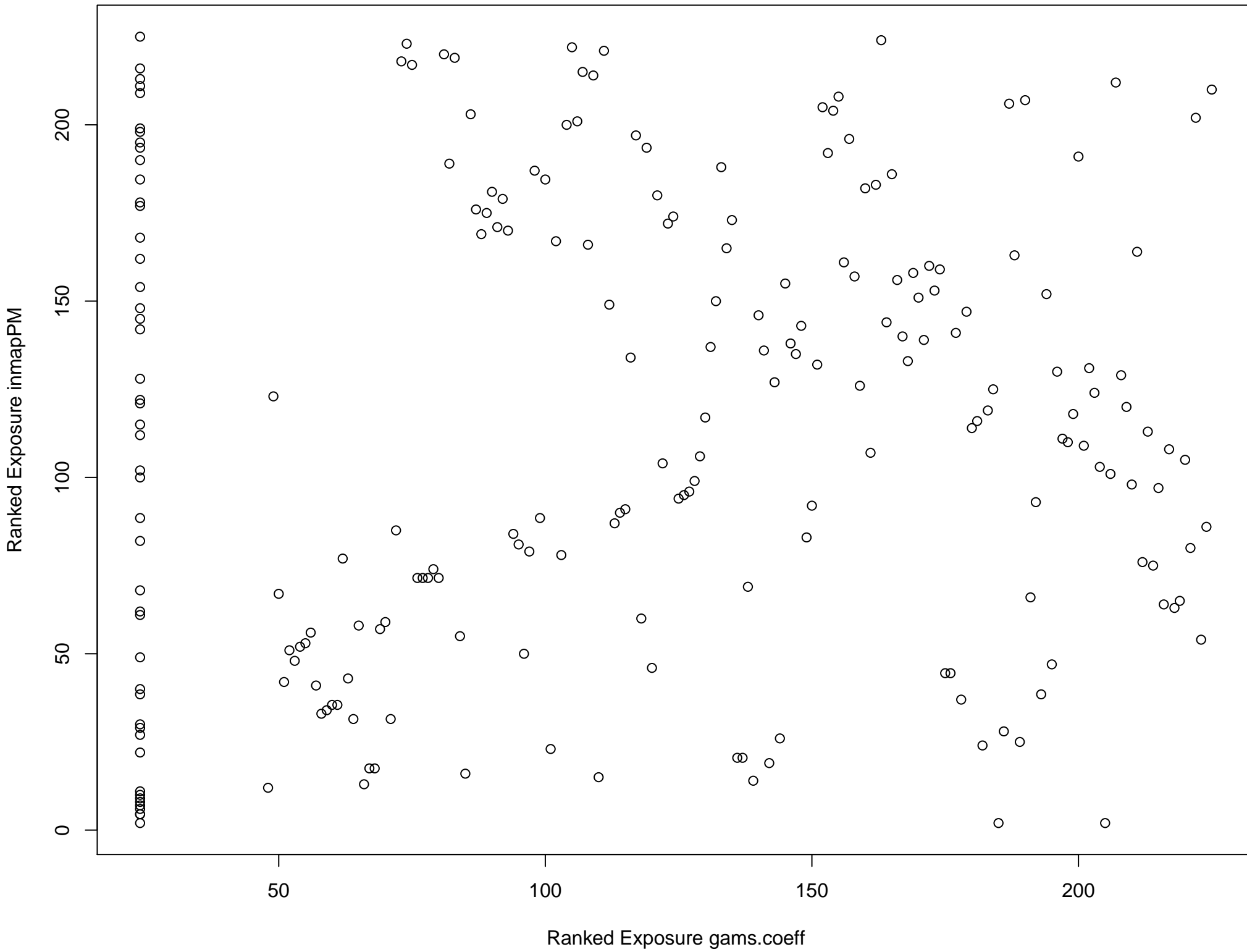Northeast correlation = 0.77   Southeast correlation = 0.73

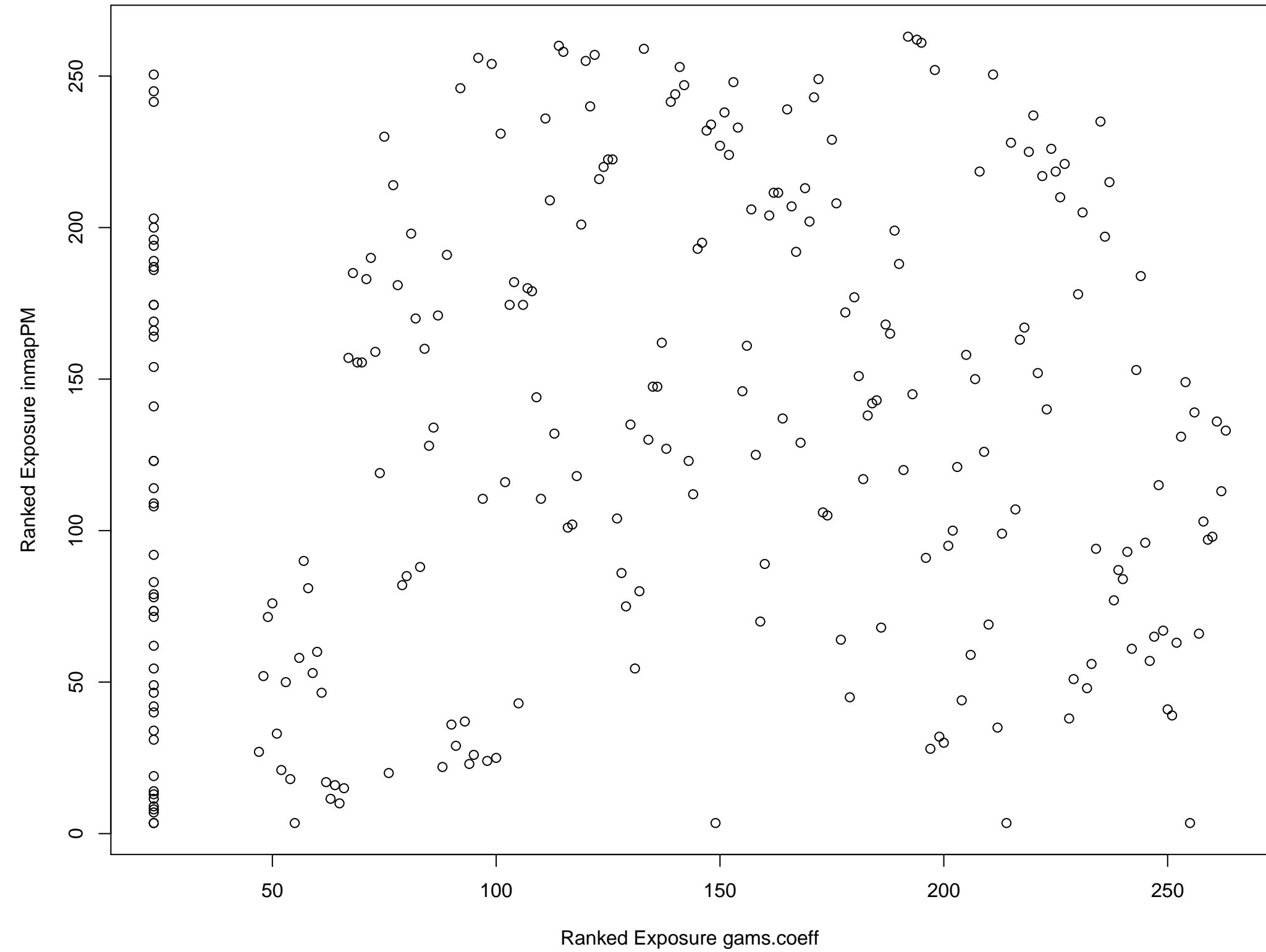**IndustrialMidwest correlation = 0.9**

Northeast correlation = 0.12

Southeast correlation = 0.16

IndustrialMidwest correlation = 0.6

Ranked Exposure inmapPM (y-axis)

Ranked Exposure gams.coeff (x-axis)