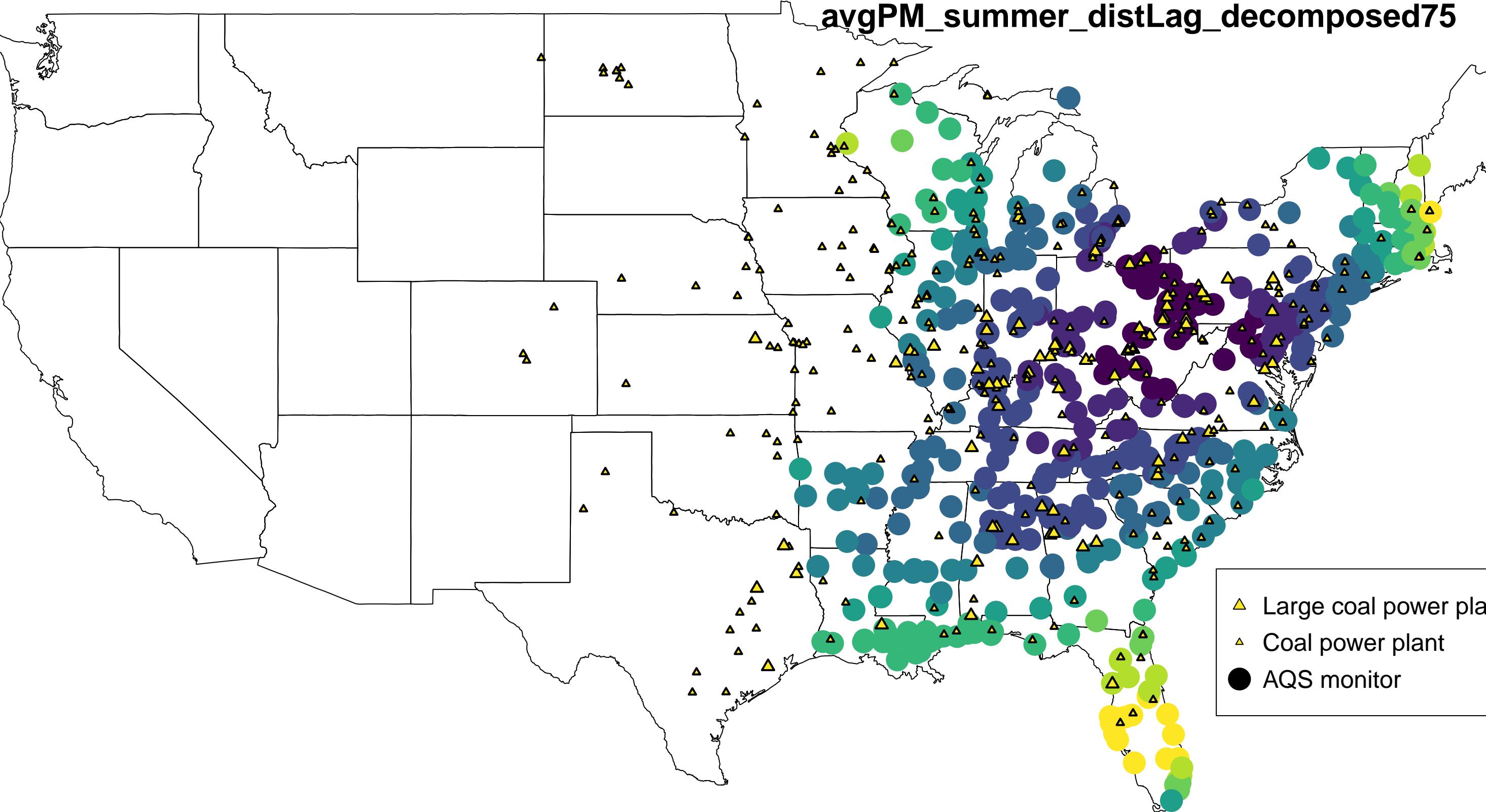


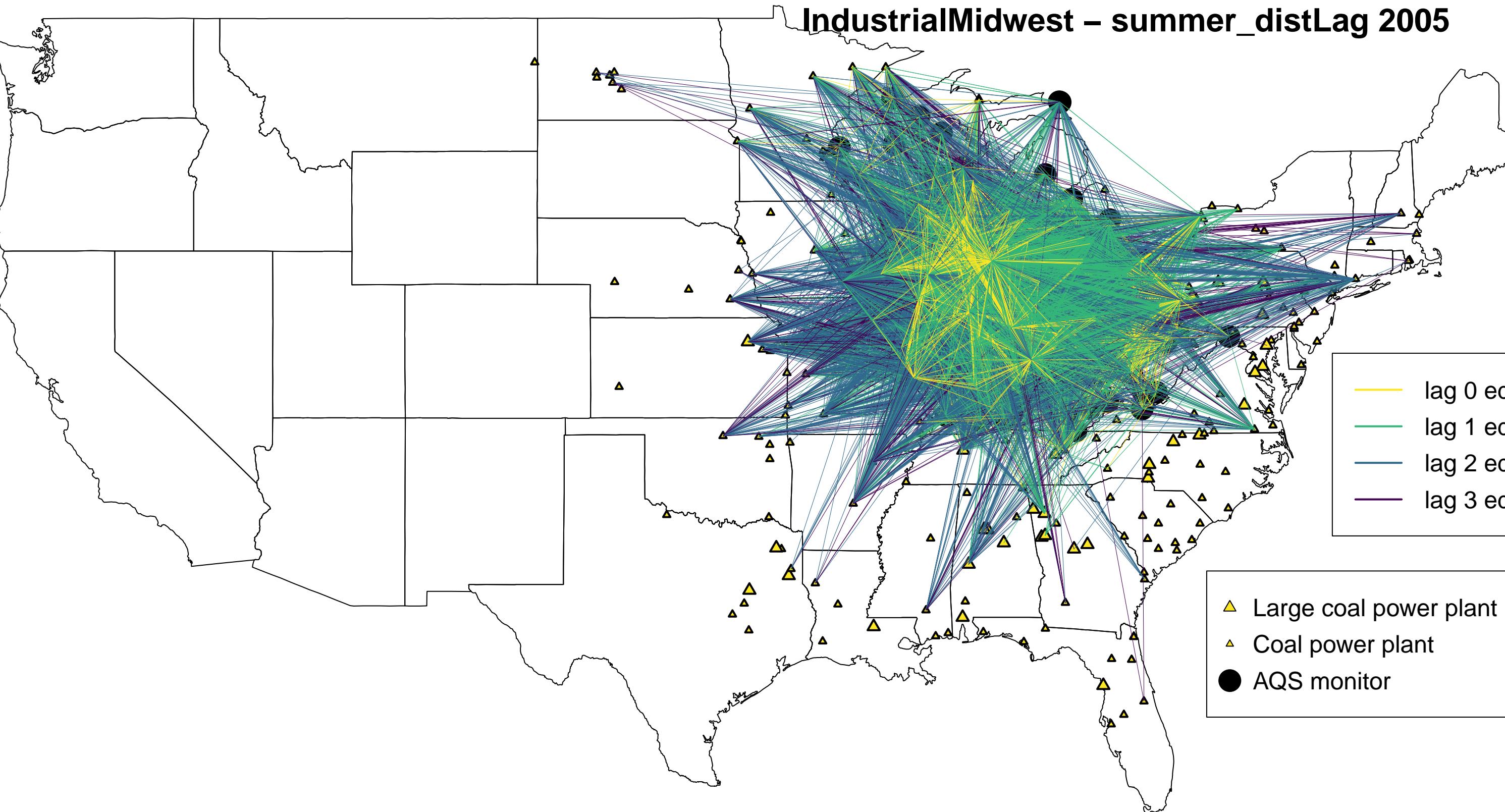
Coal power plants and AQS monitors



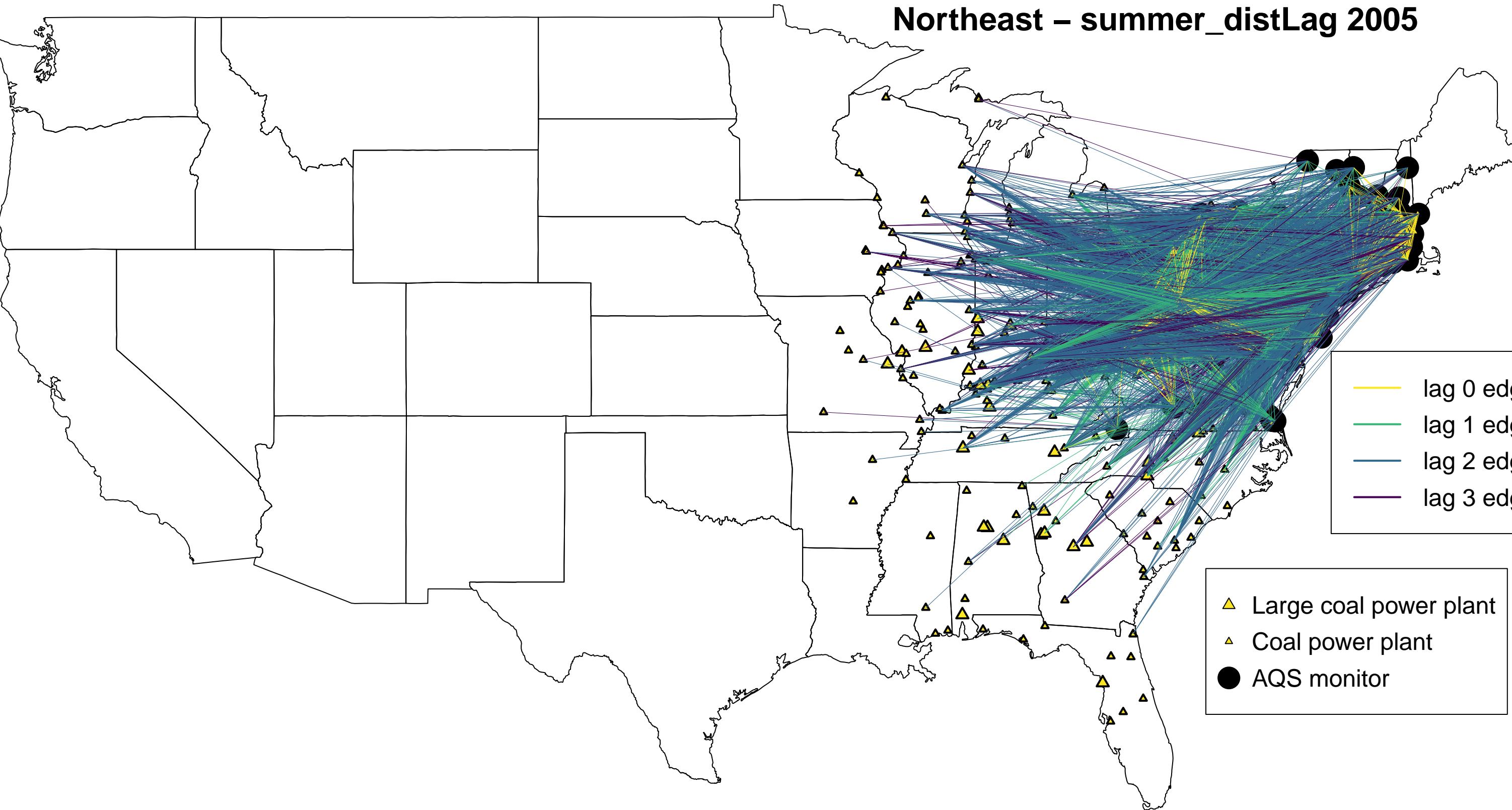
avgPM_summer_distLag_decomposed75



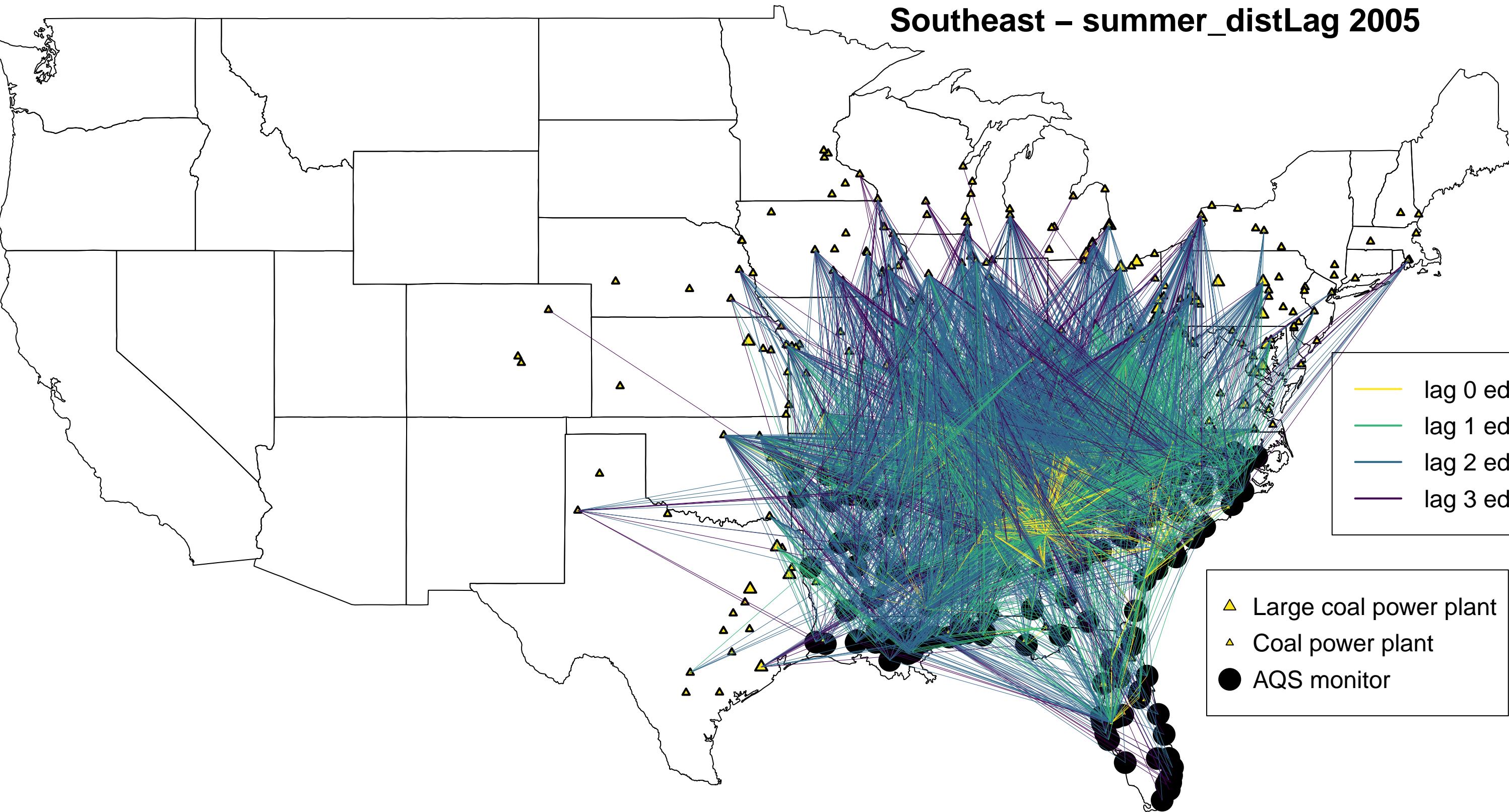
IndustrialMidwest – summer_distLag 2005



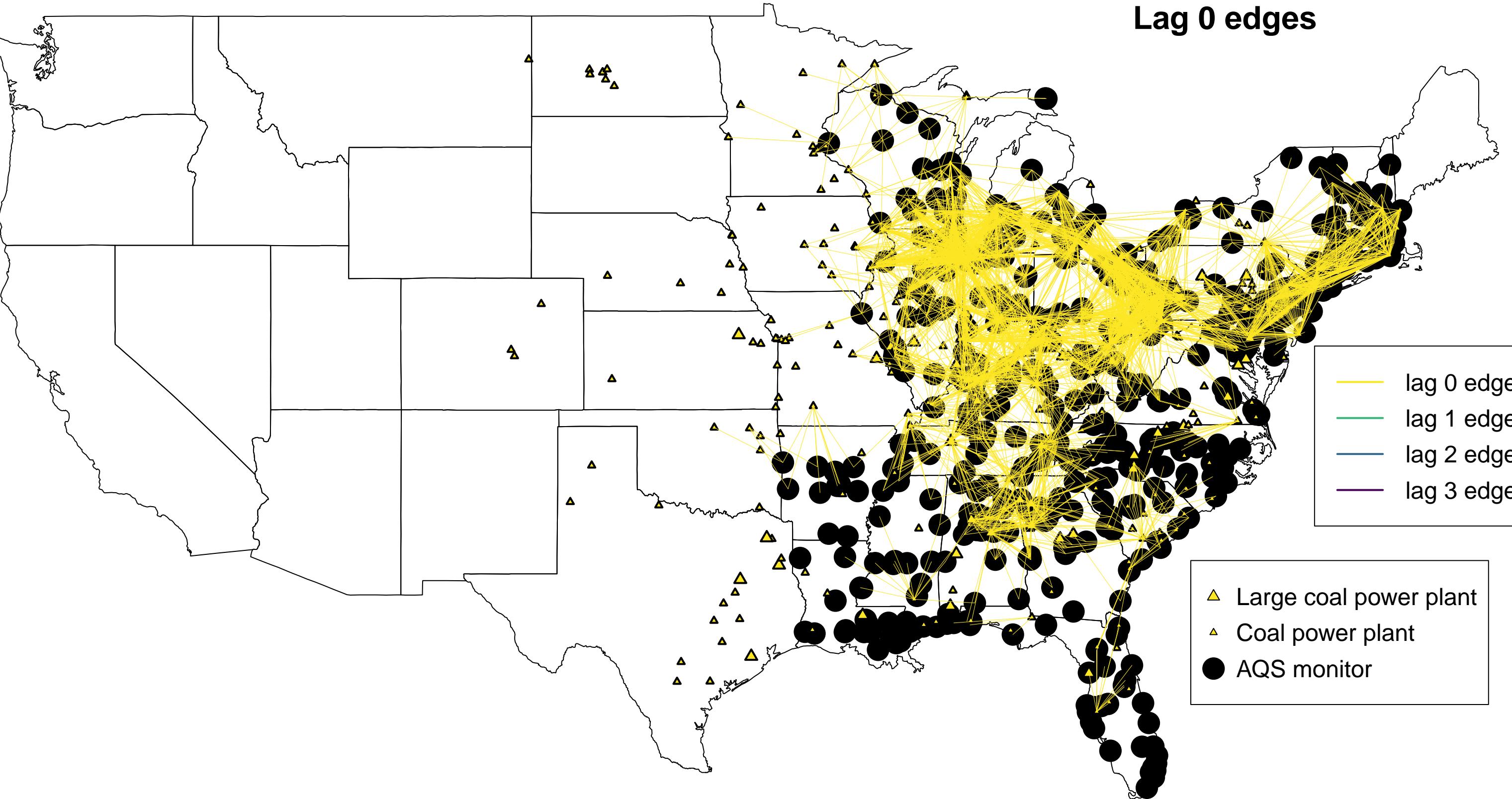
Northeast – summer_distLag 2005



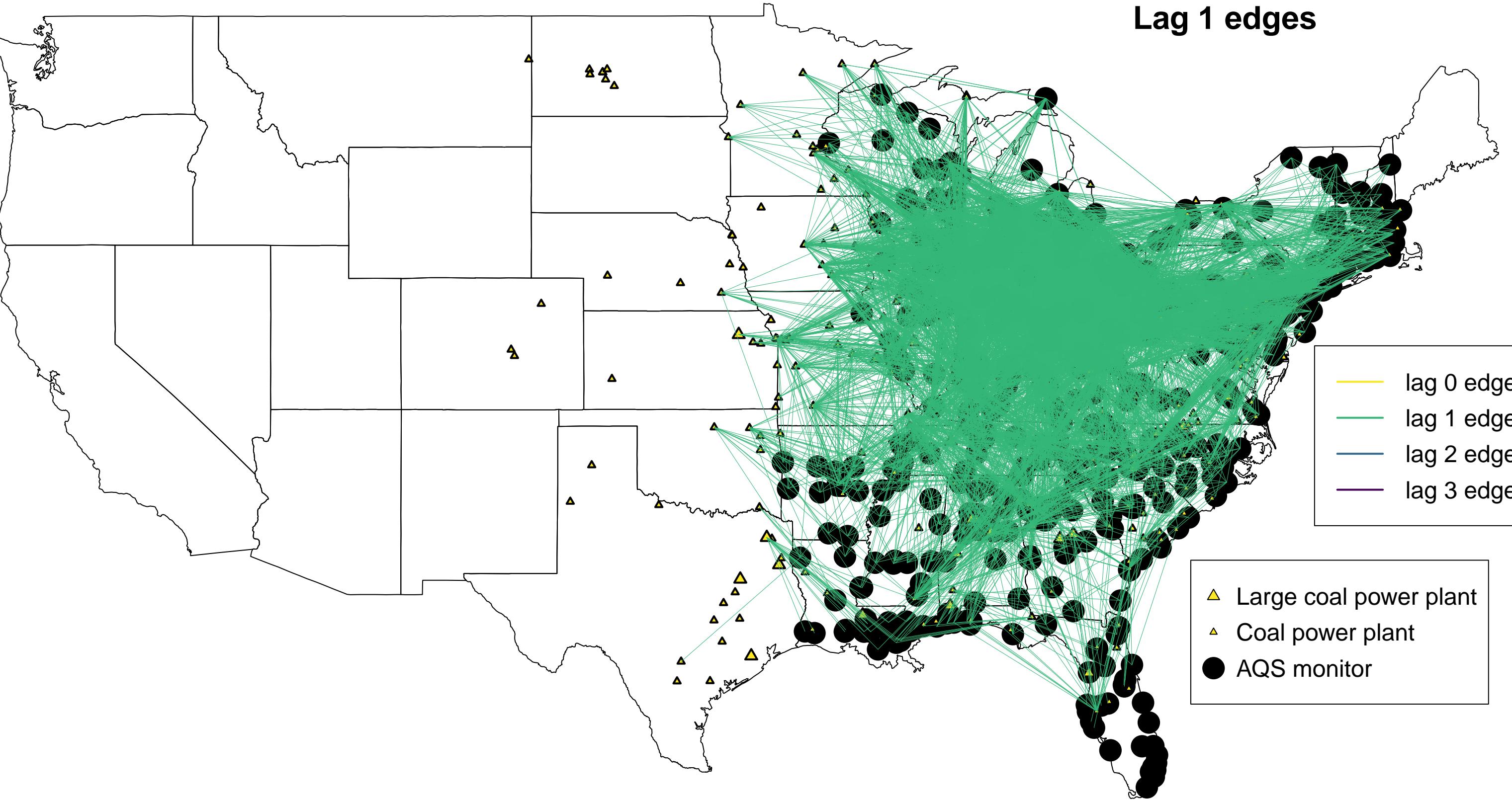
Southeast – summer_distLag 2005



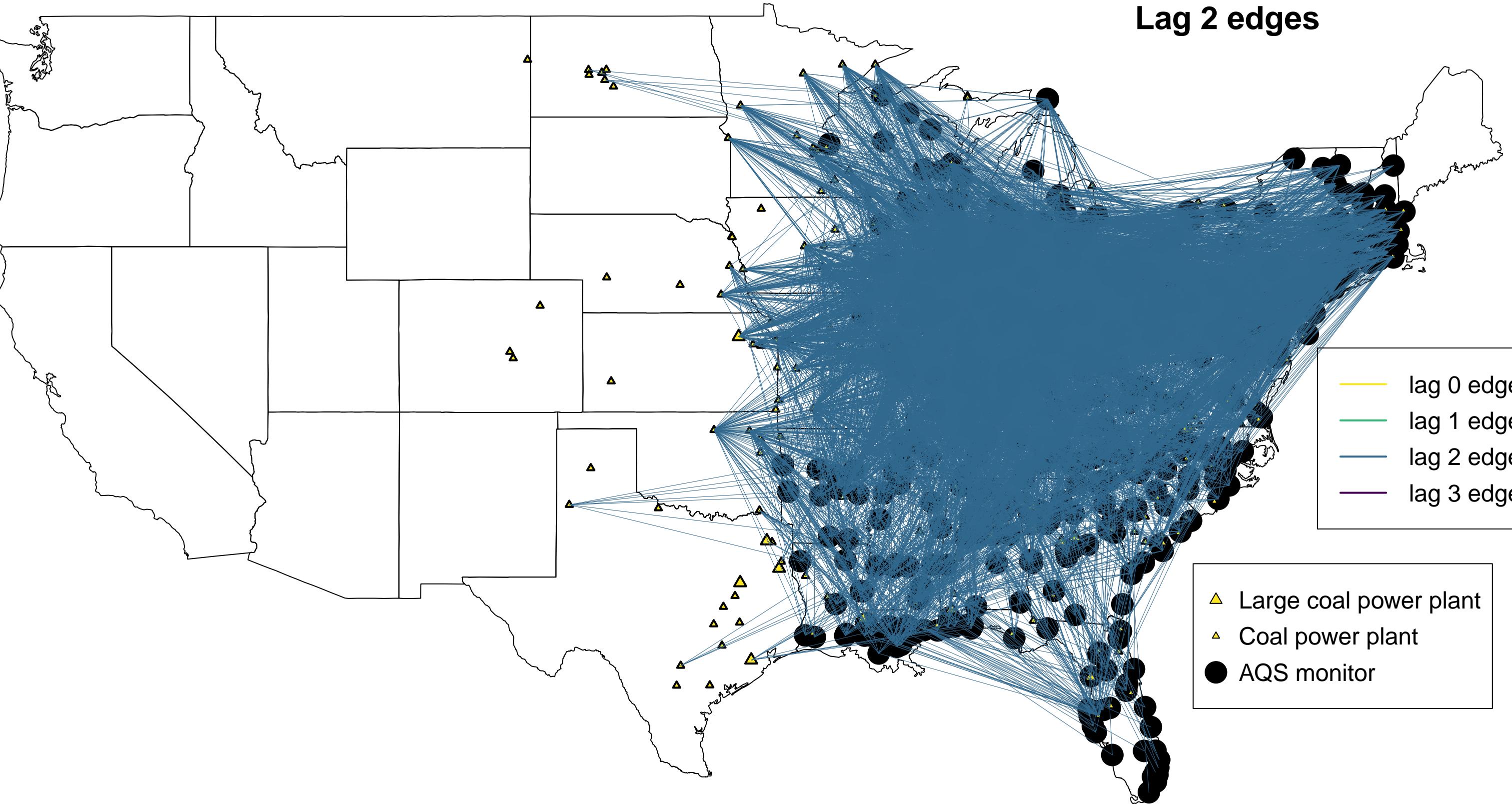
Lag 0 edges



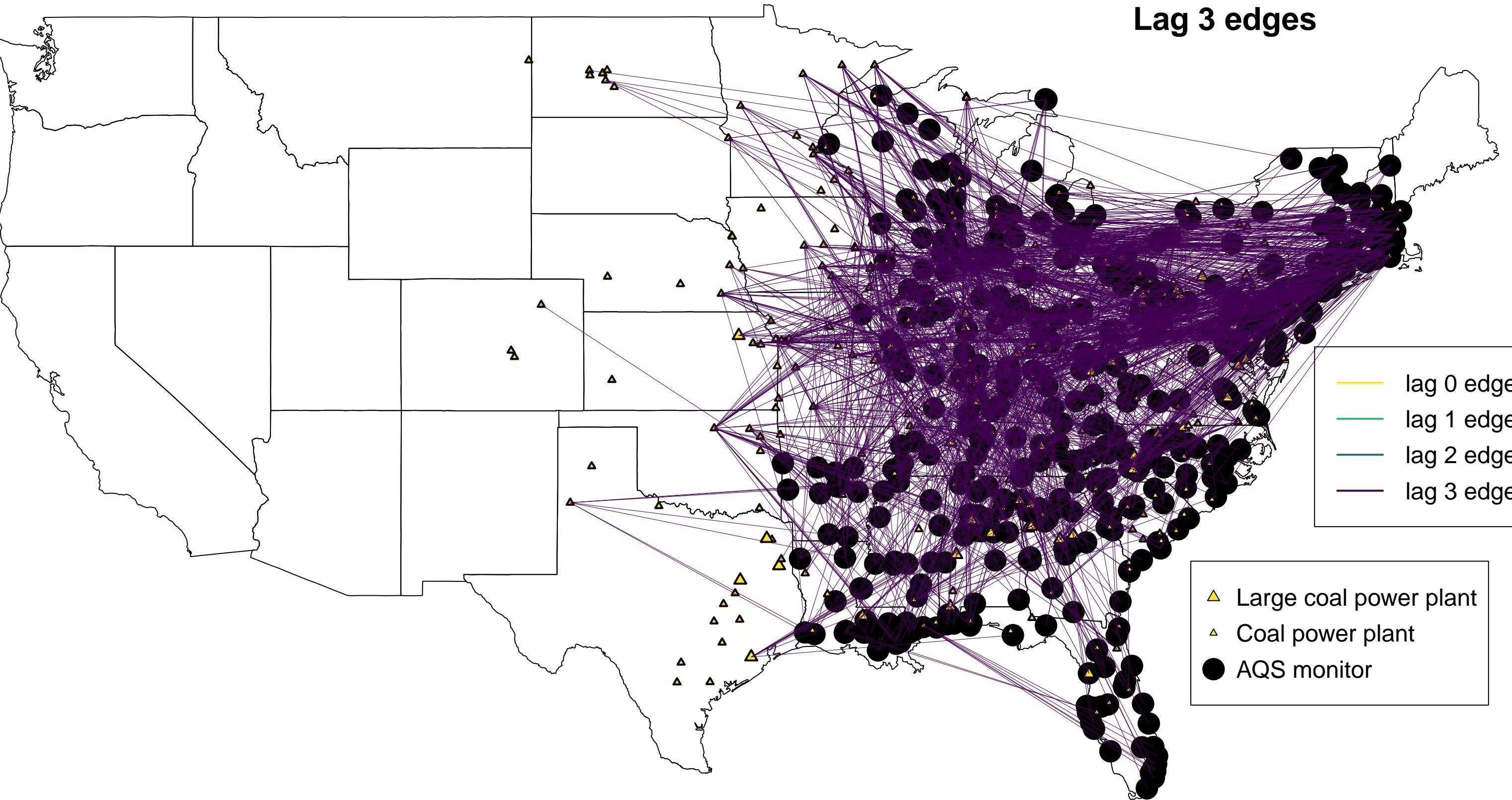
Lag 1 edges

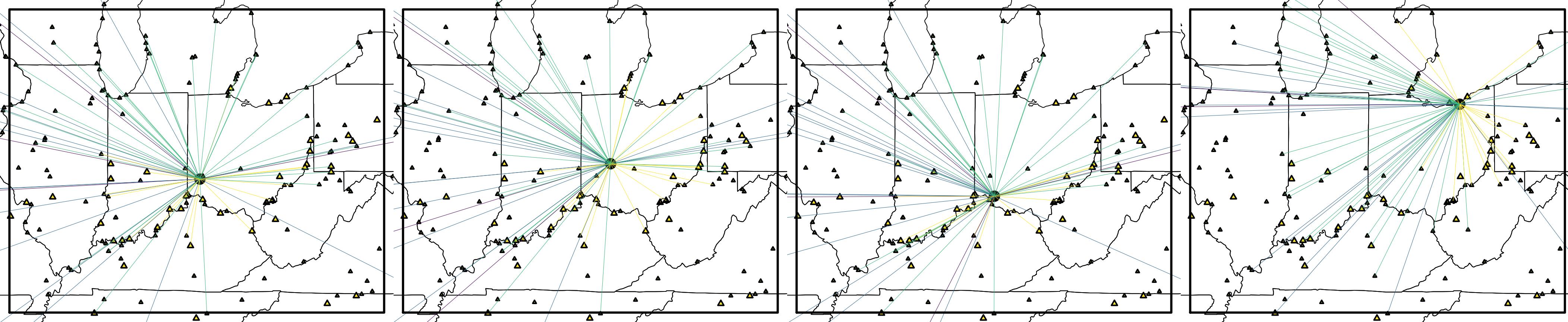
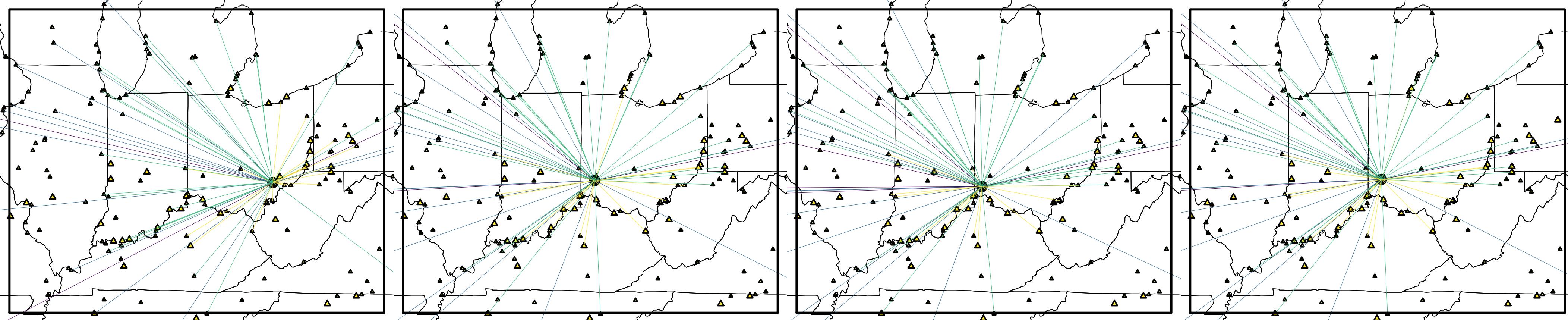


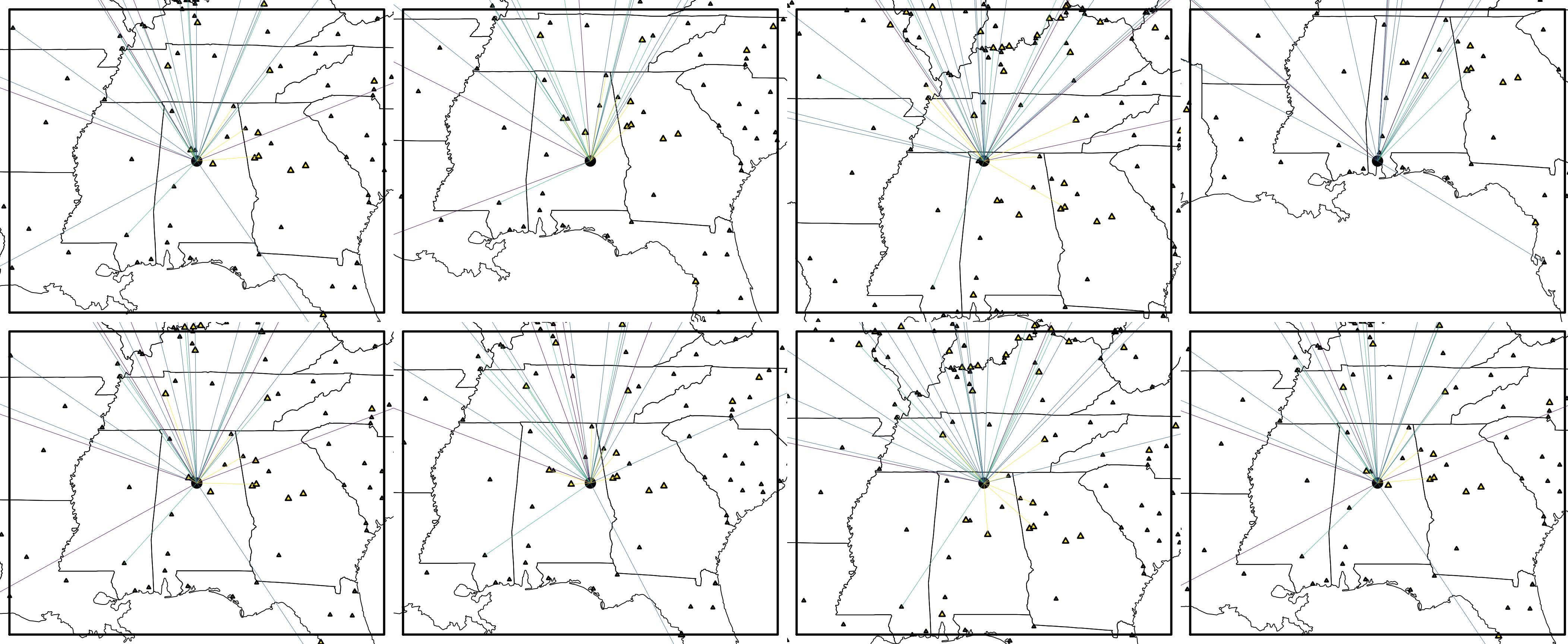
Lag 2 edges

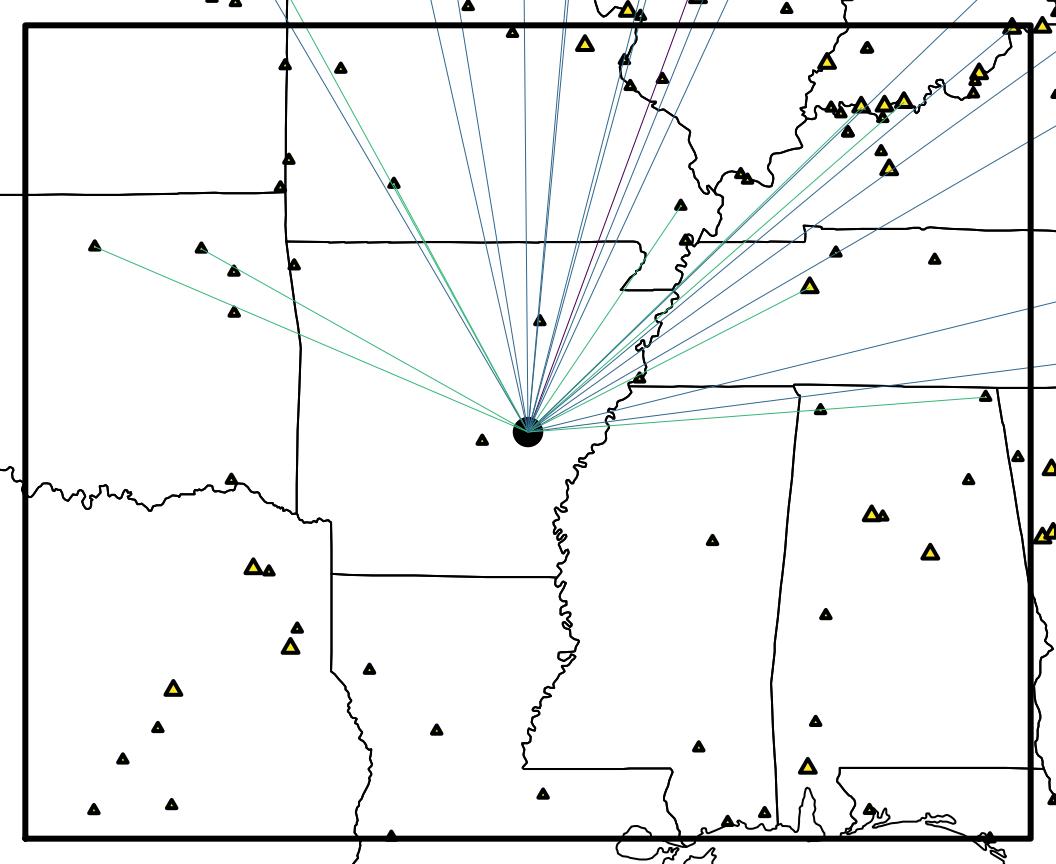
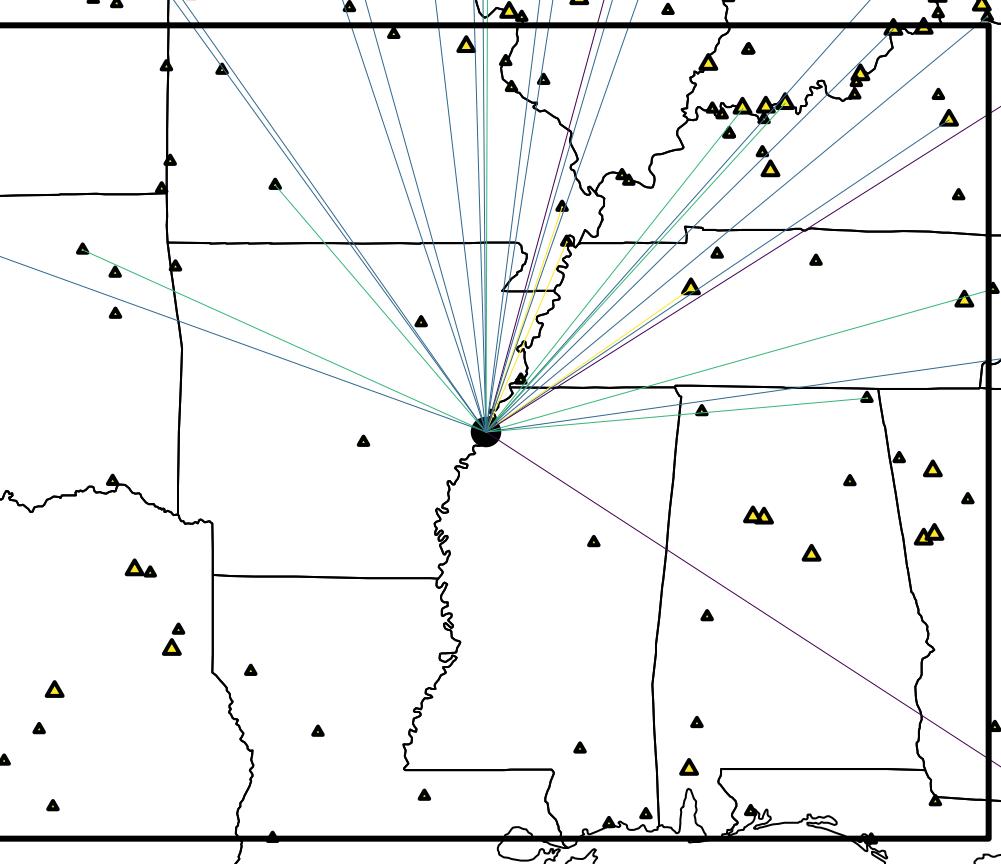
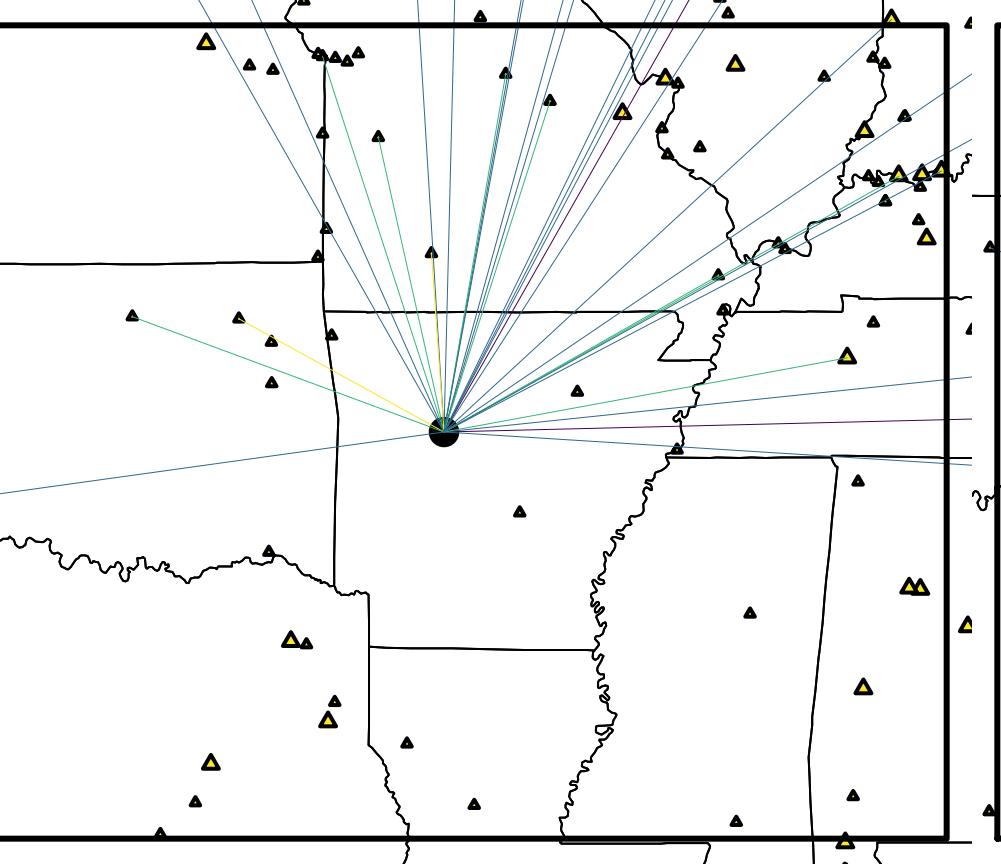
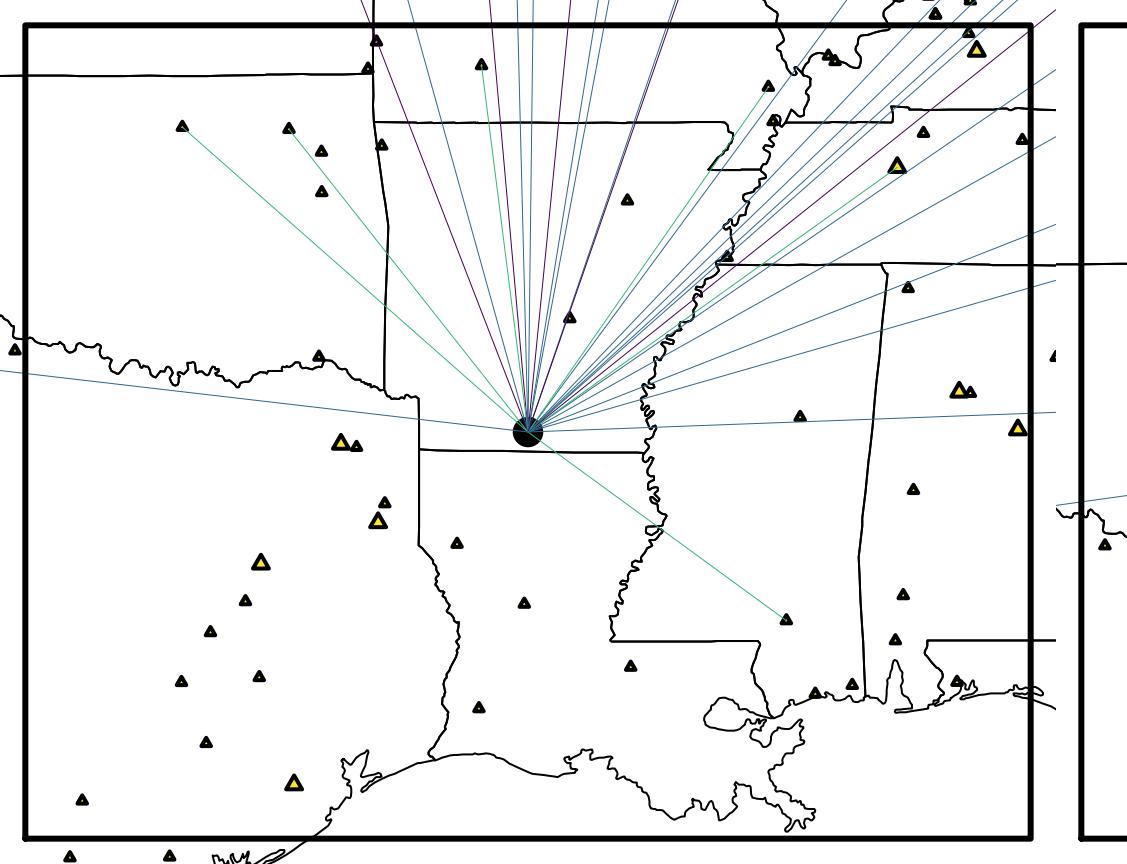
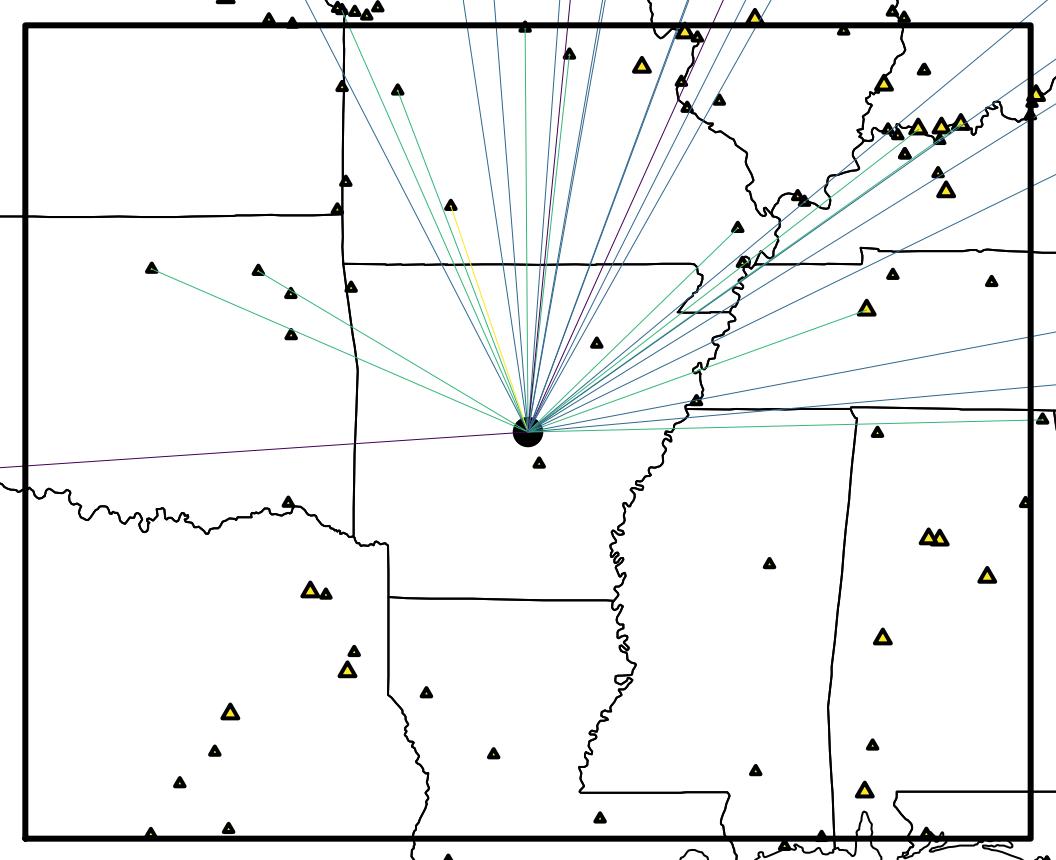
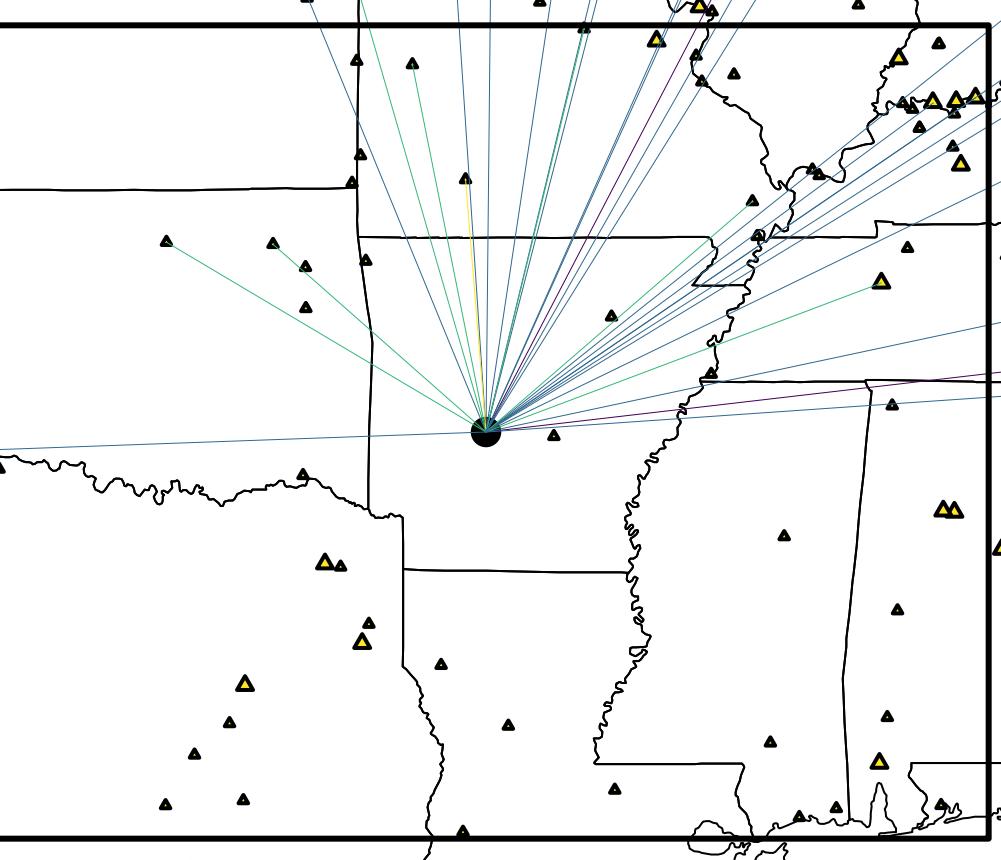
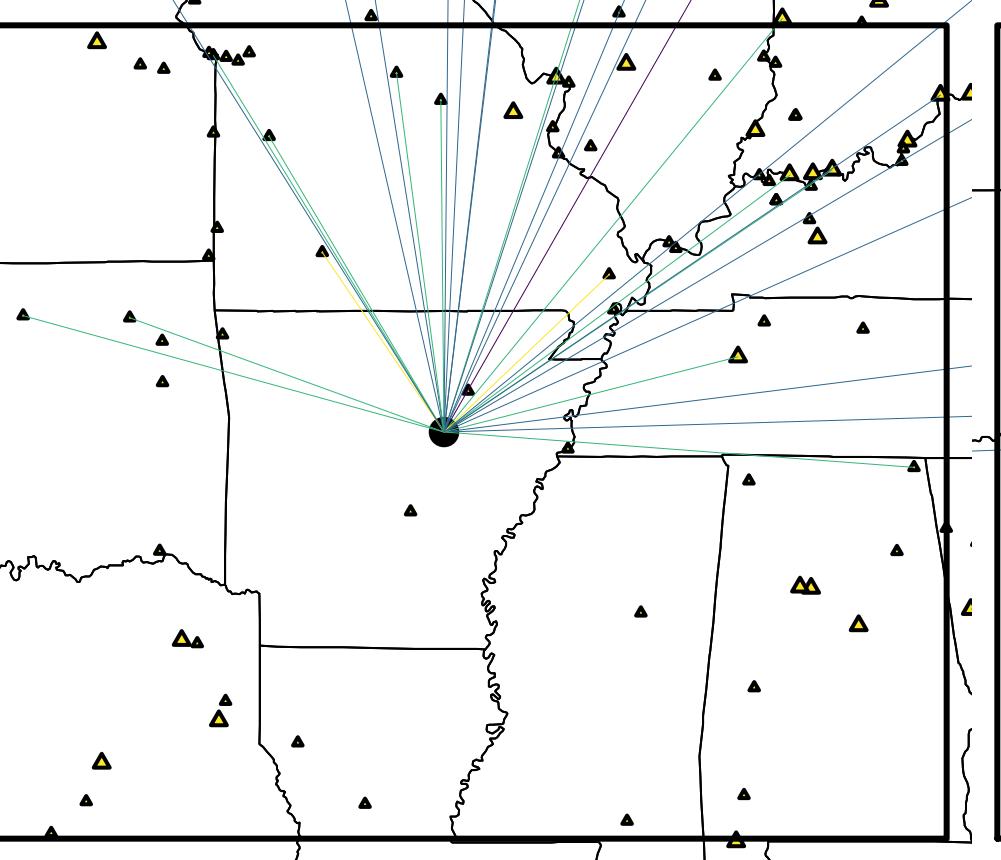
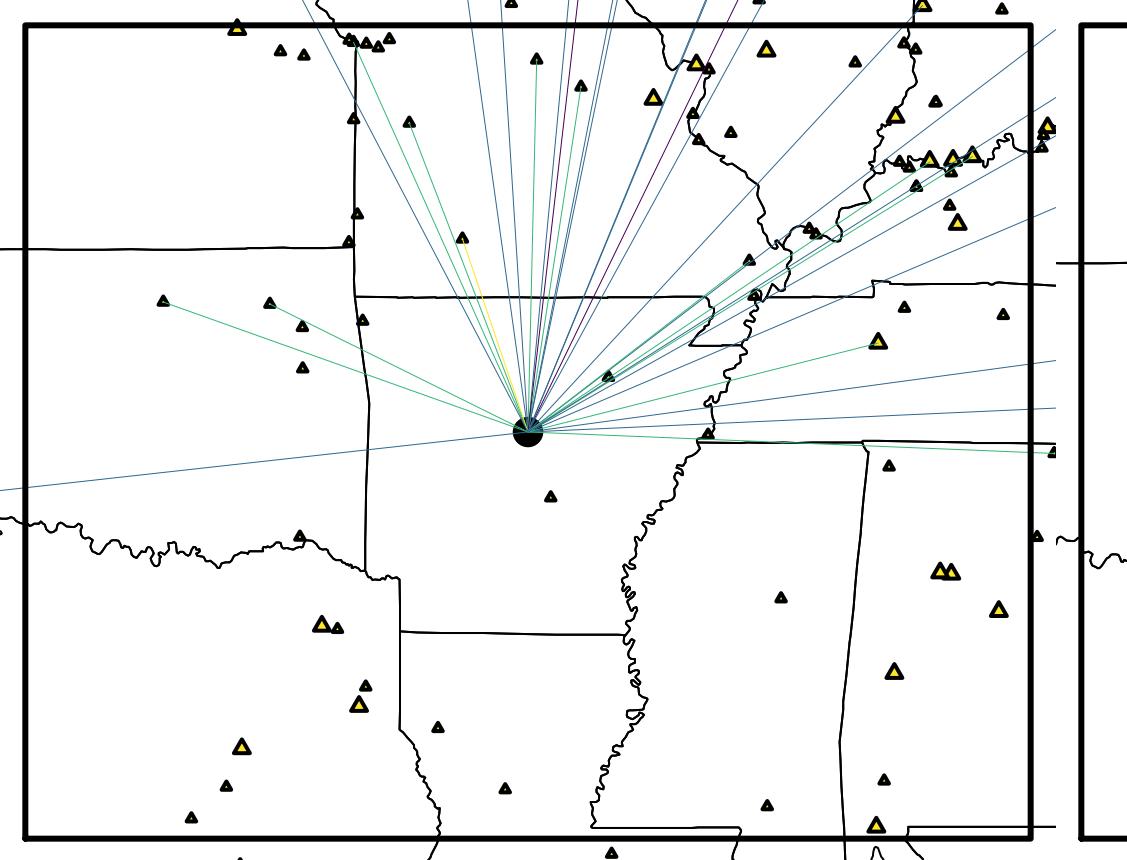


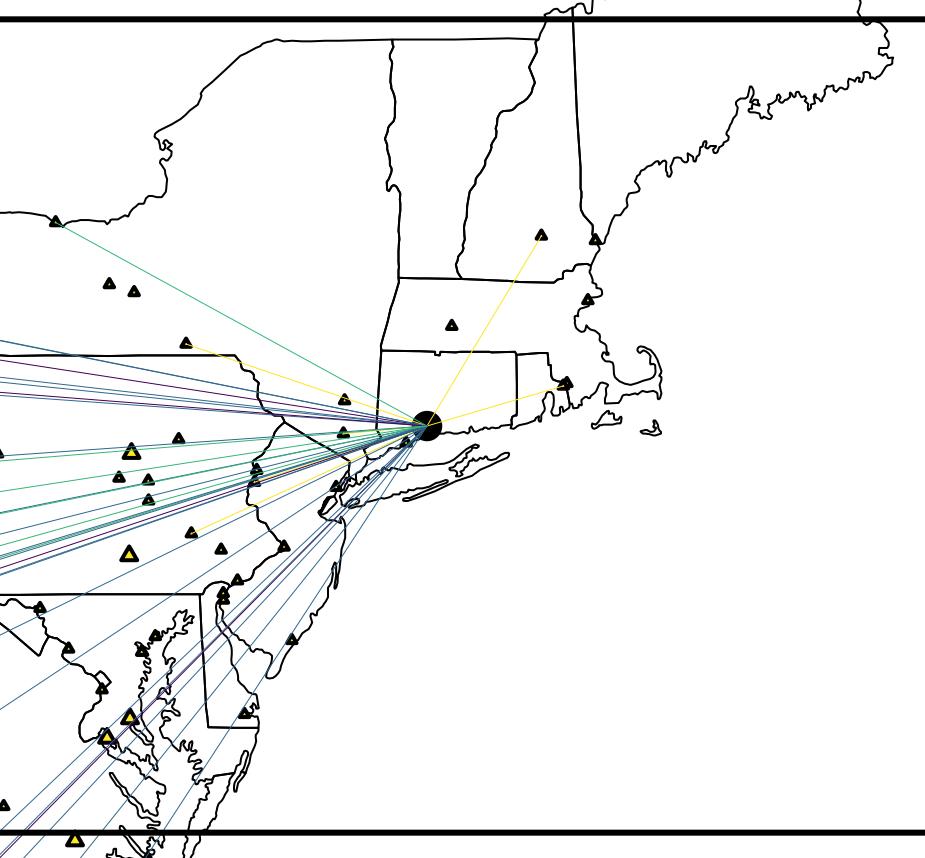
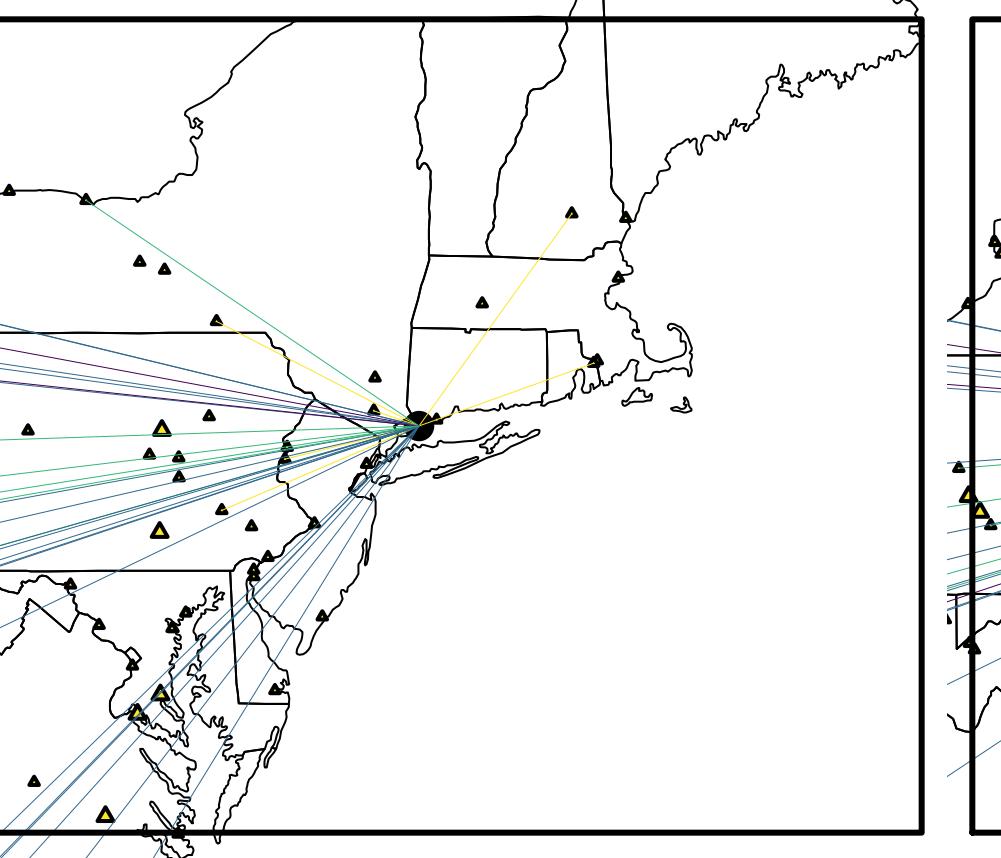
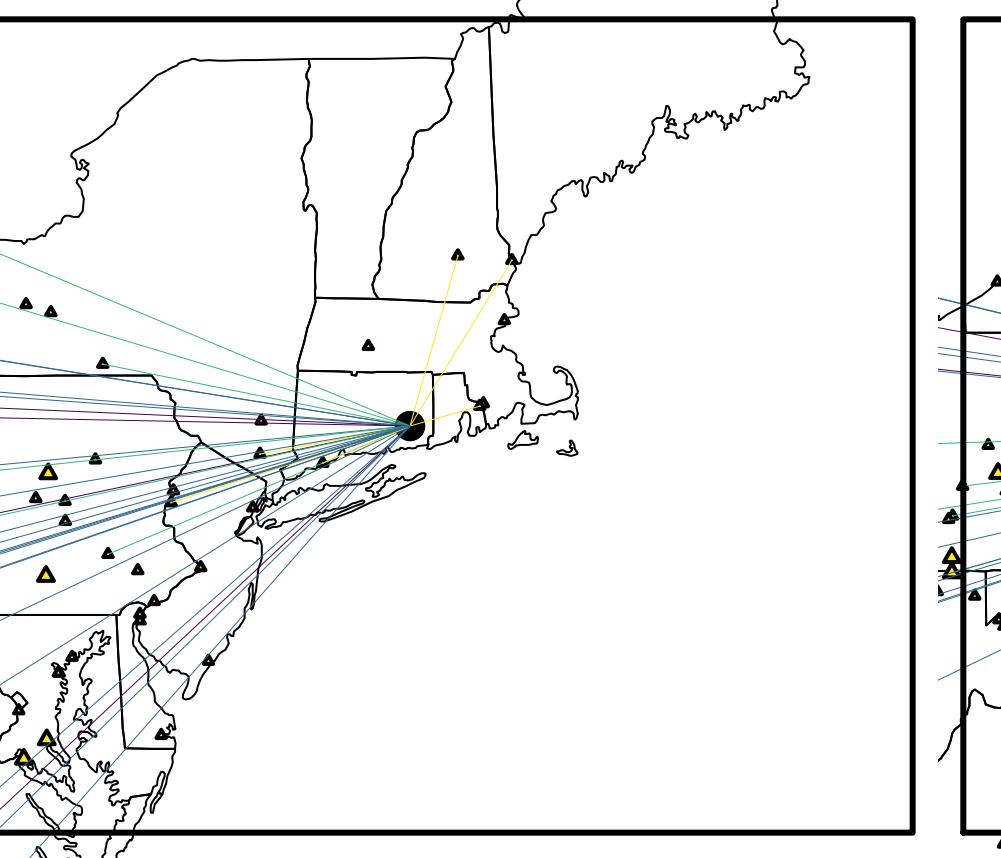
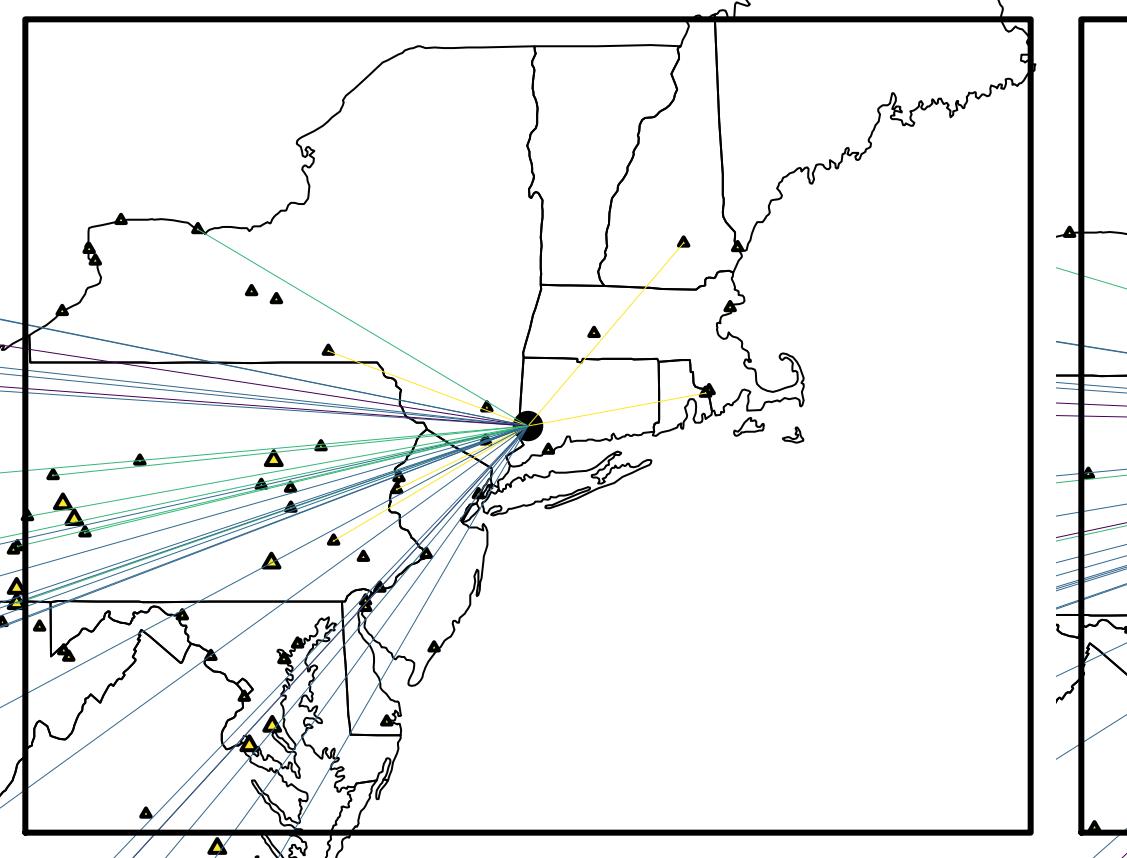
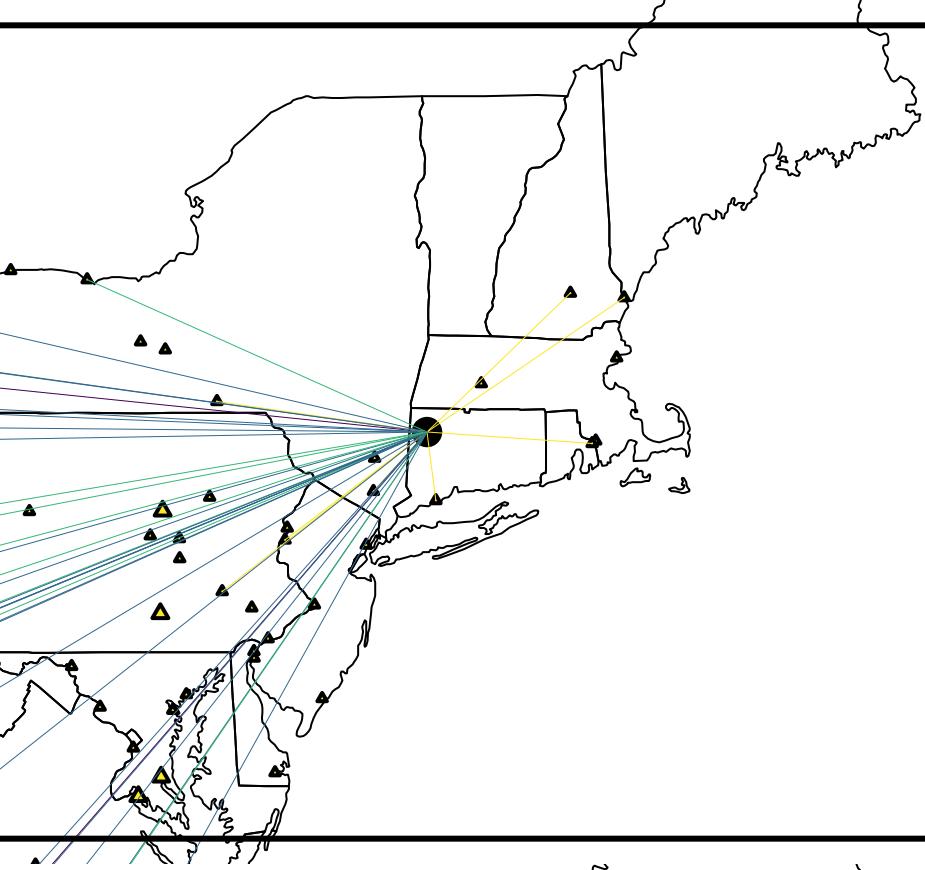
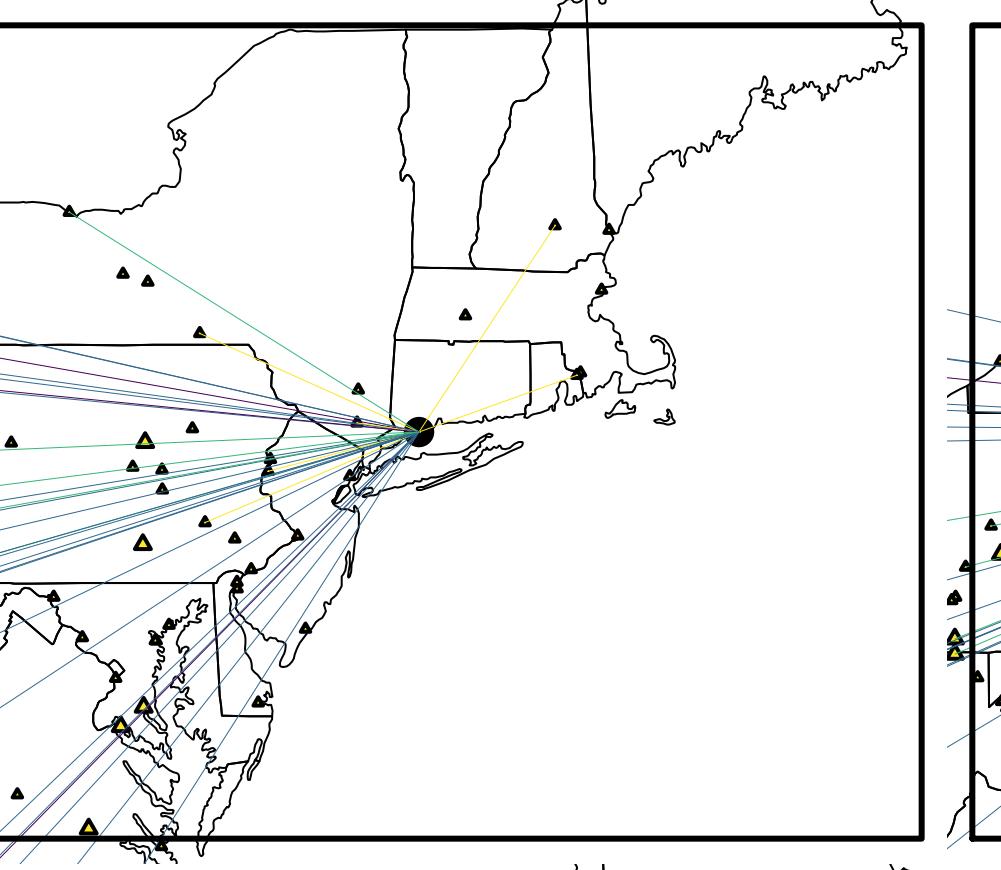
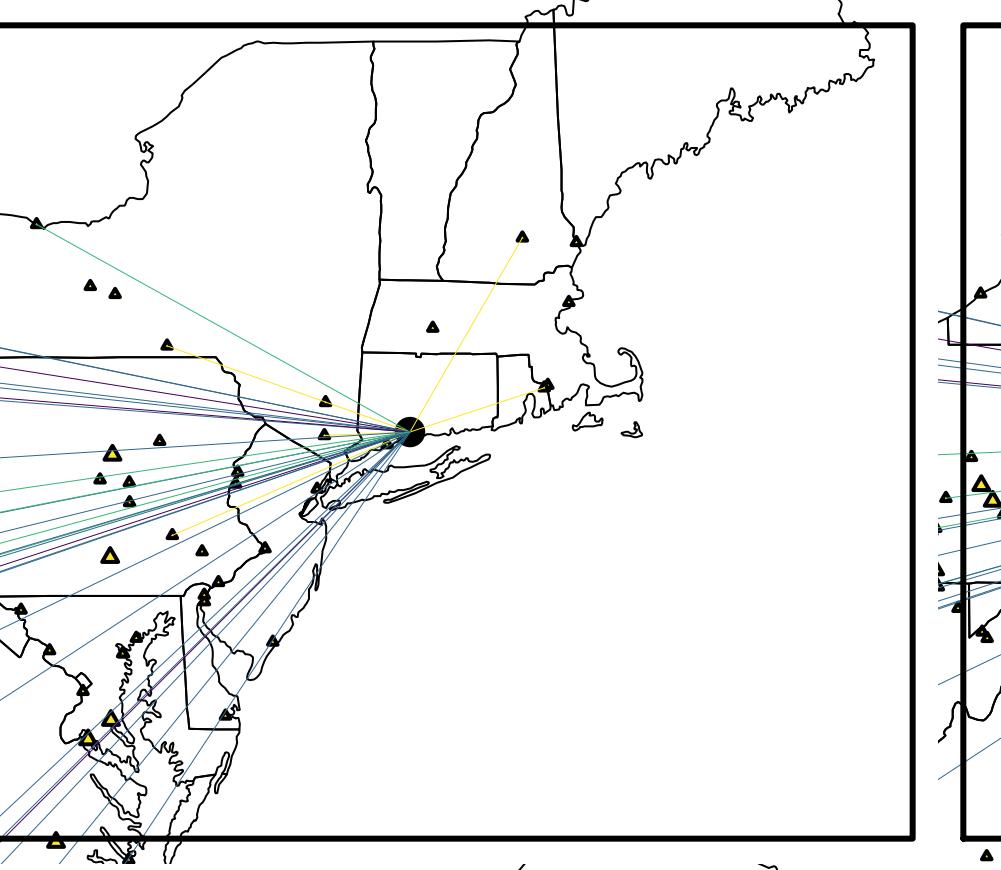
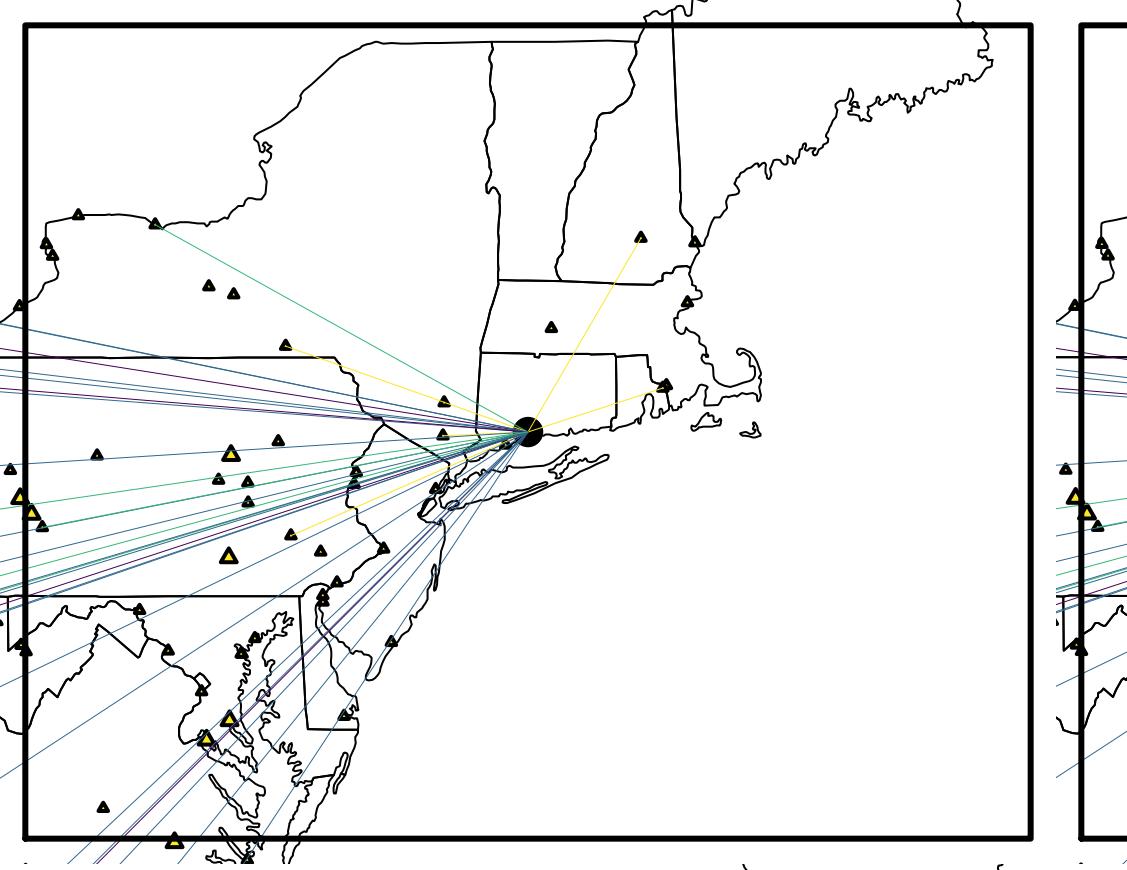
Lag 3 edges

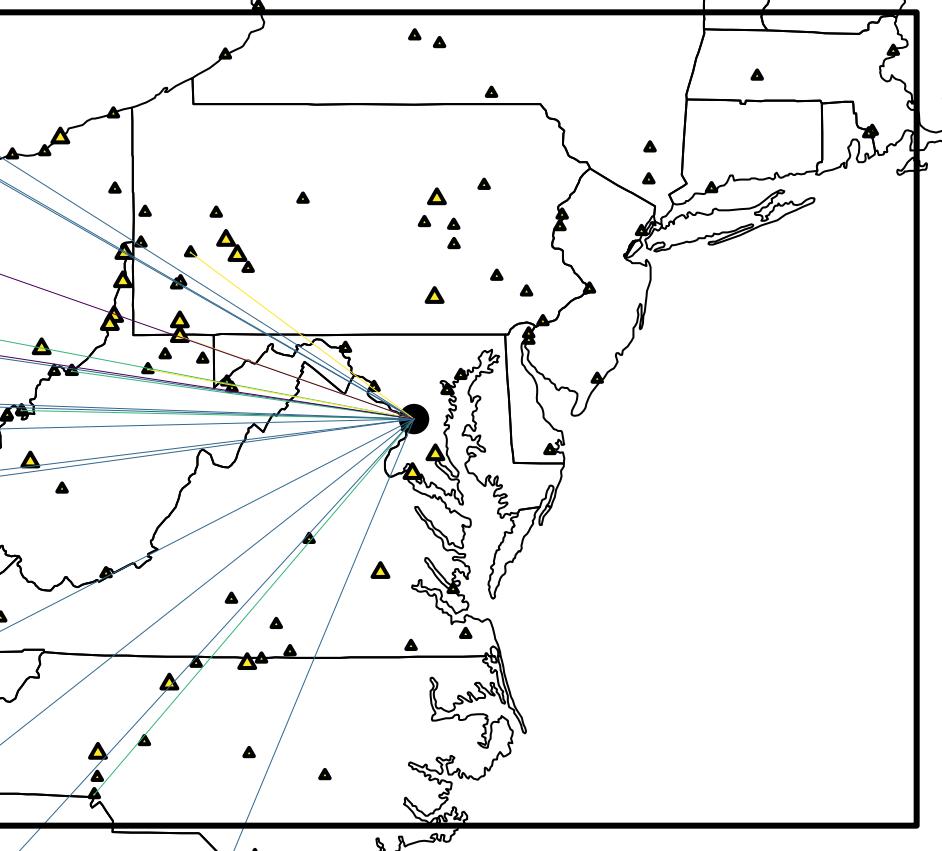
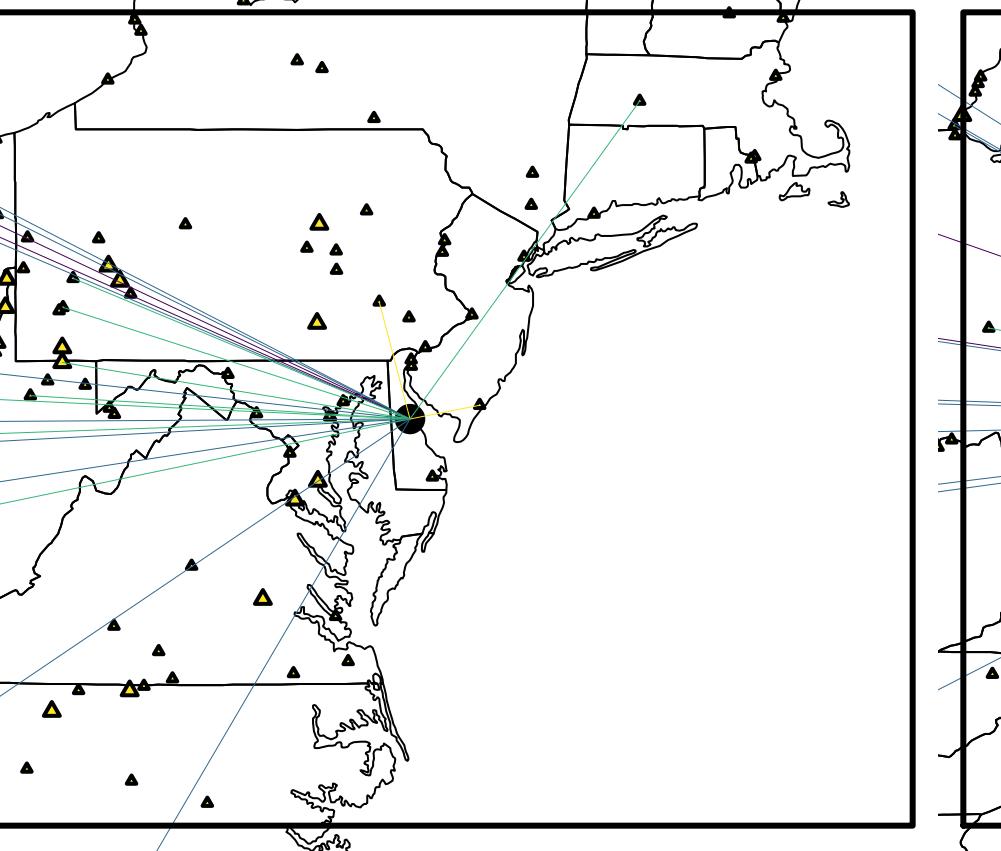
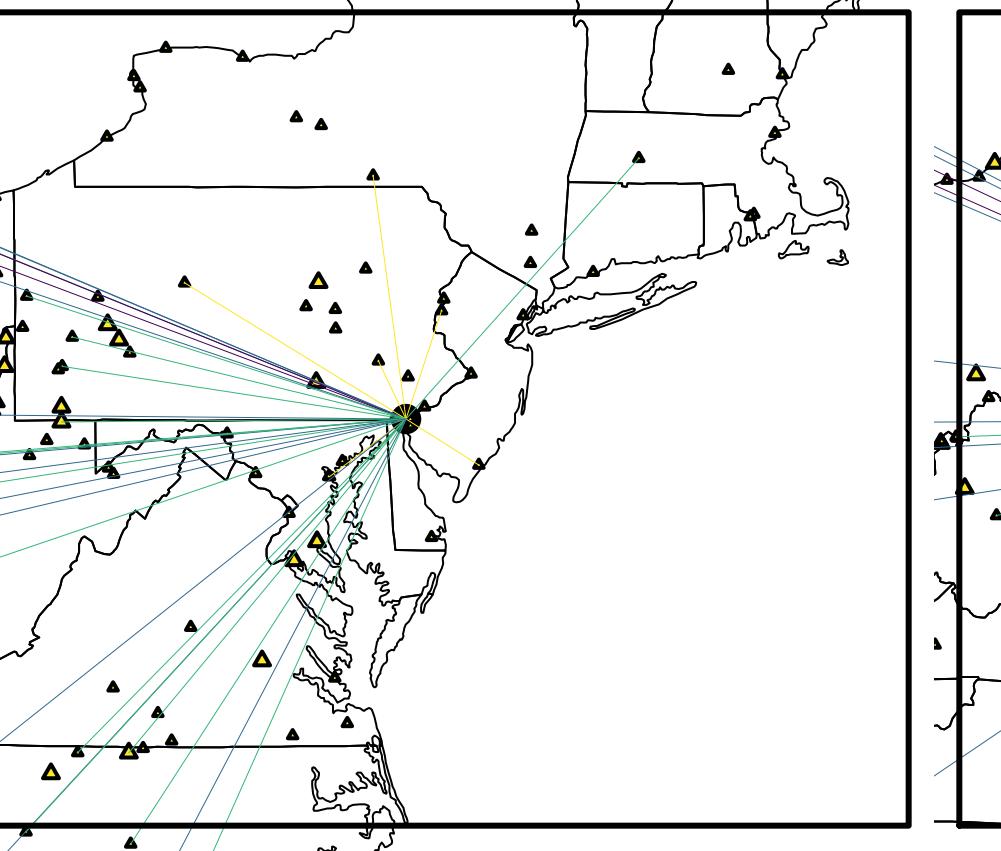
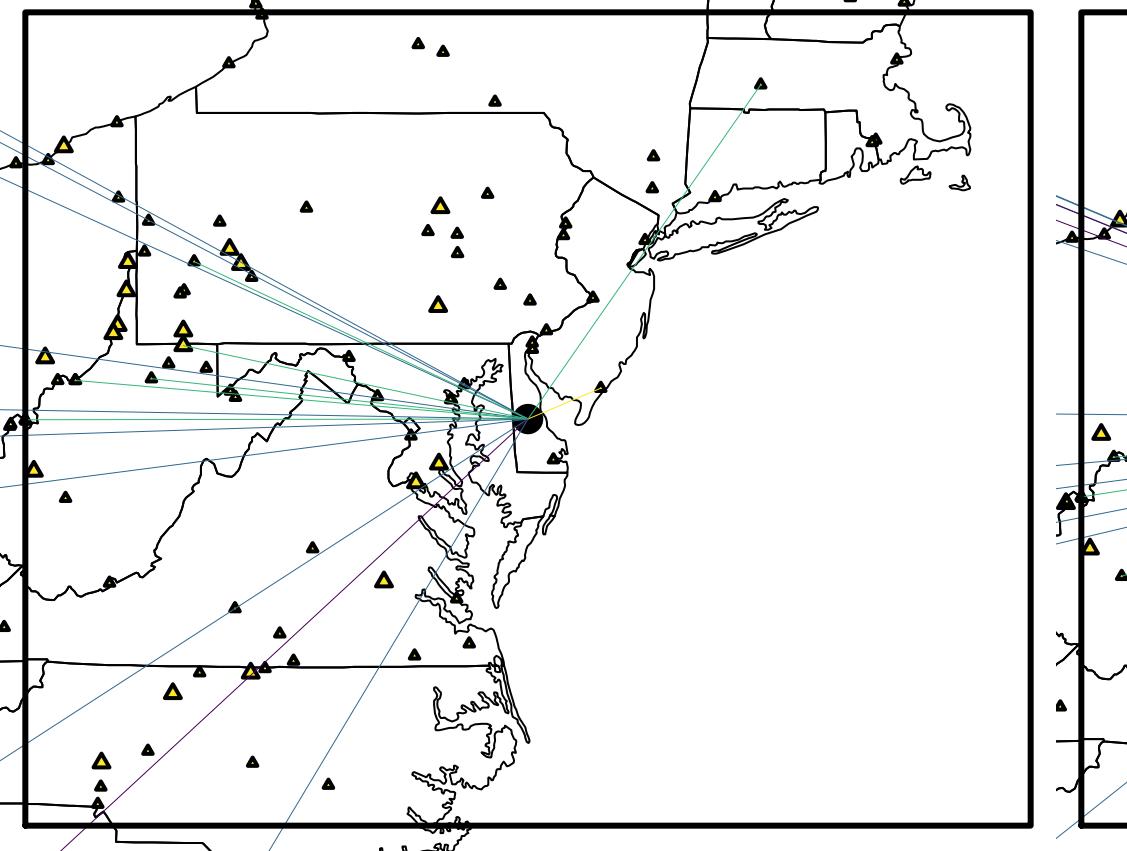
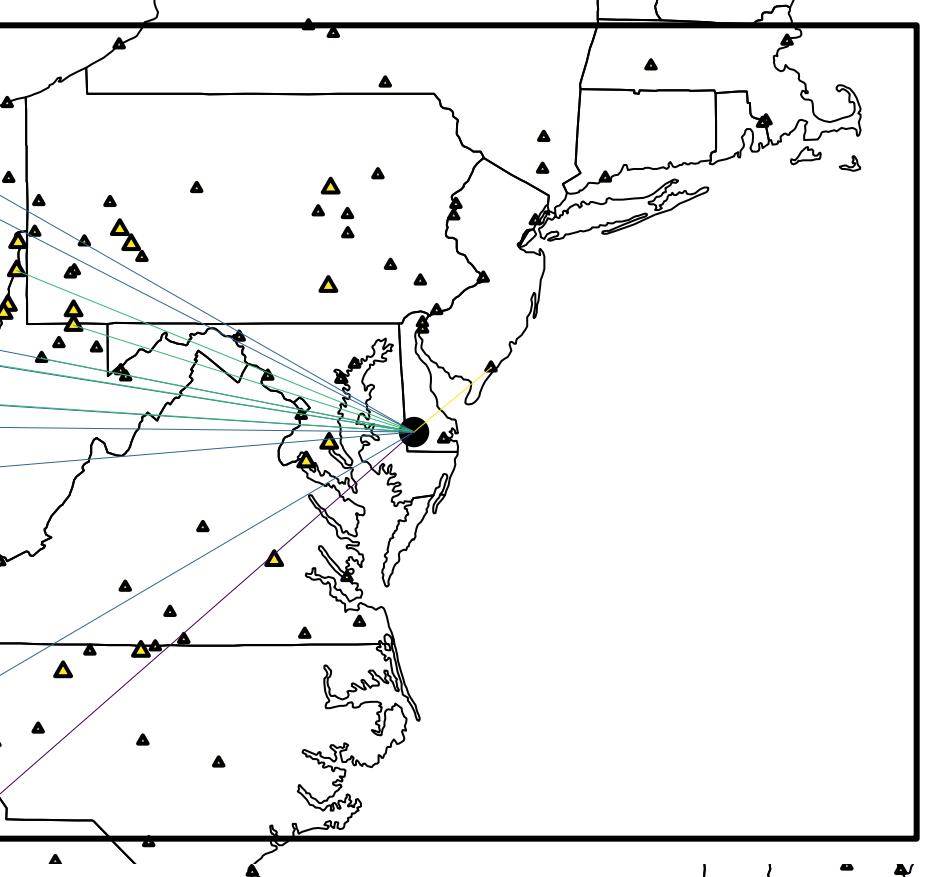
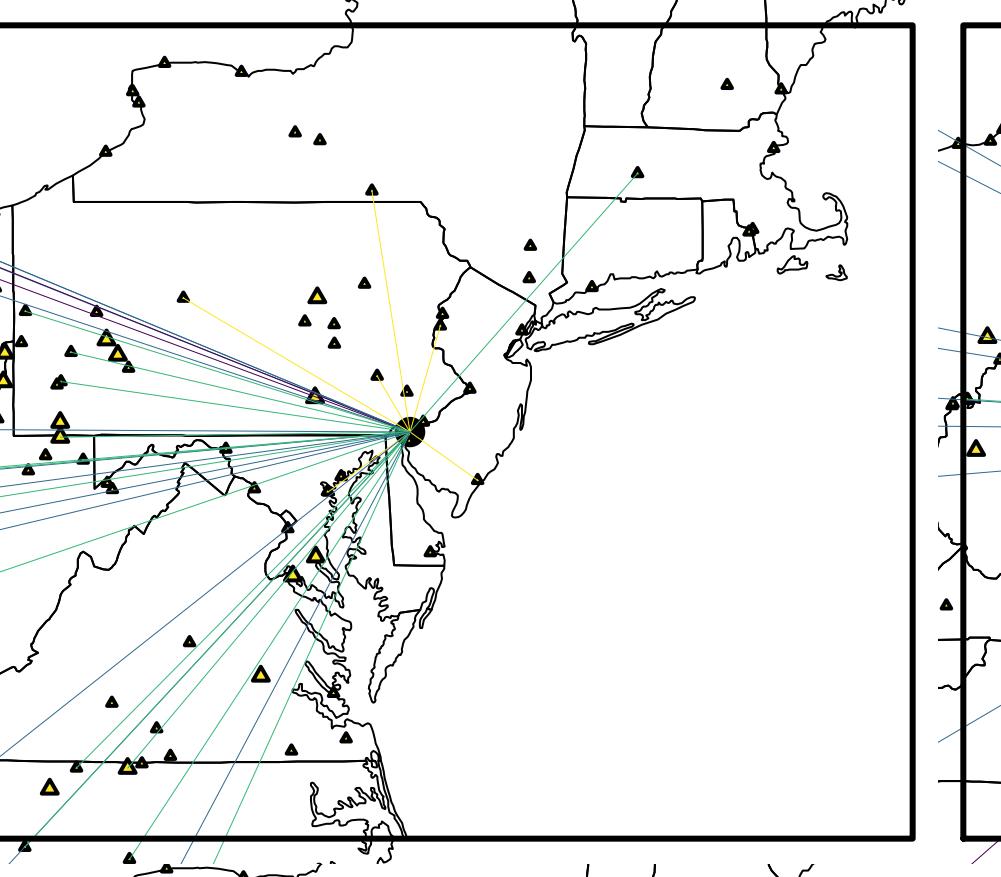
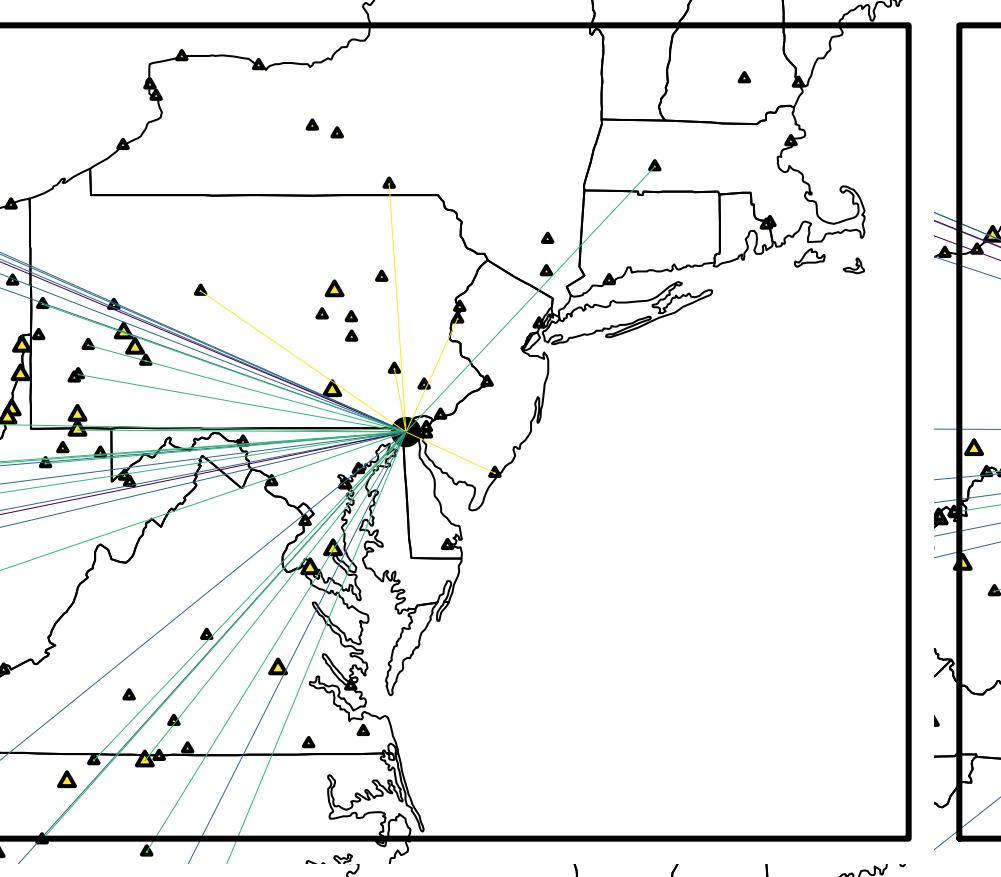
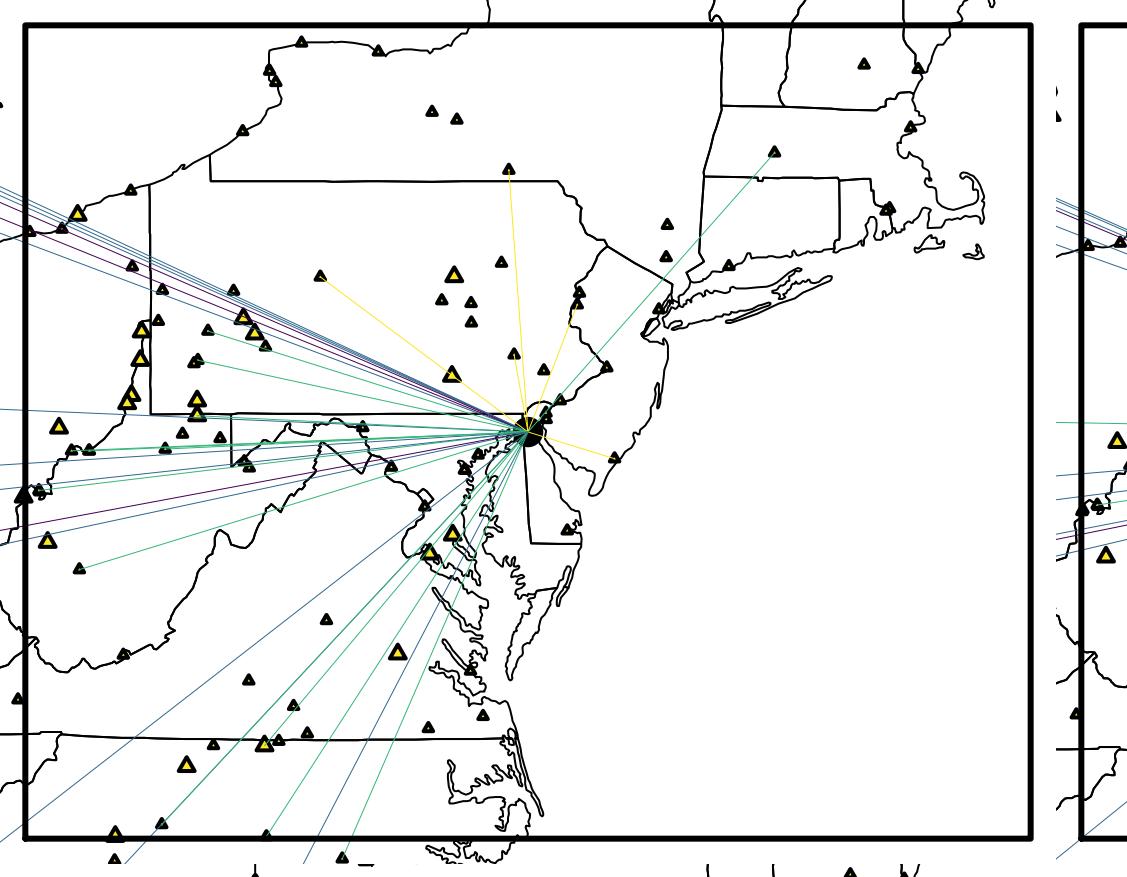


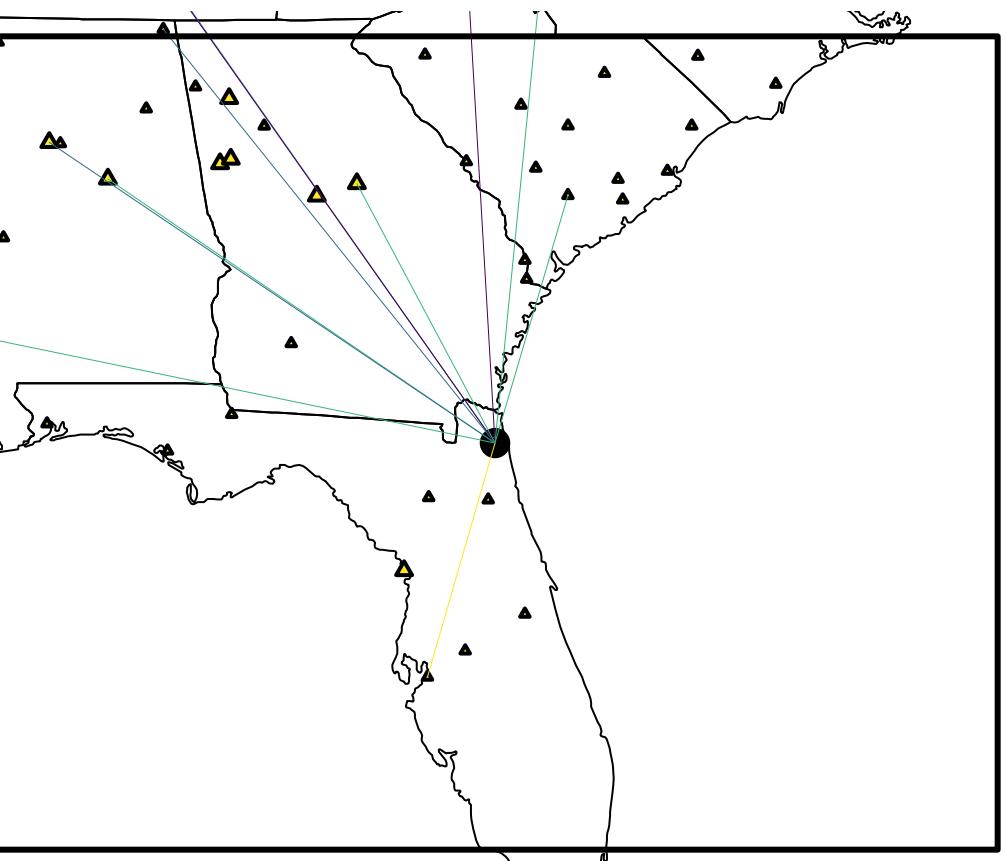
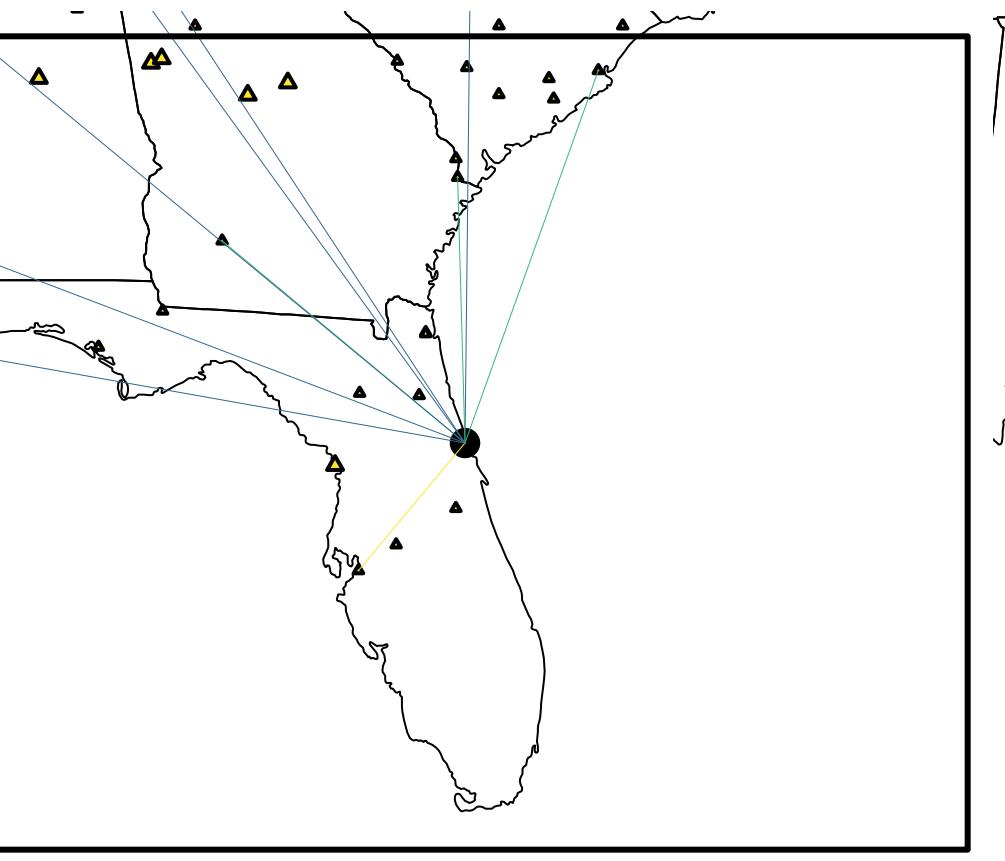
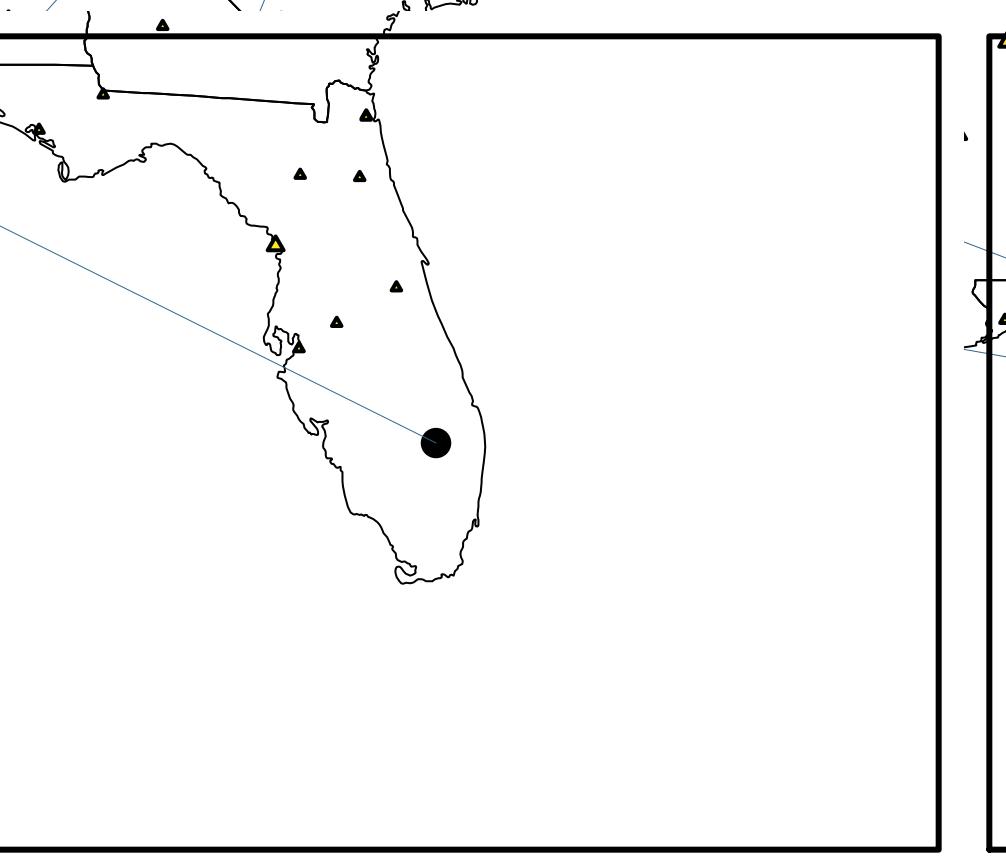
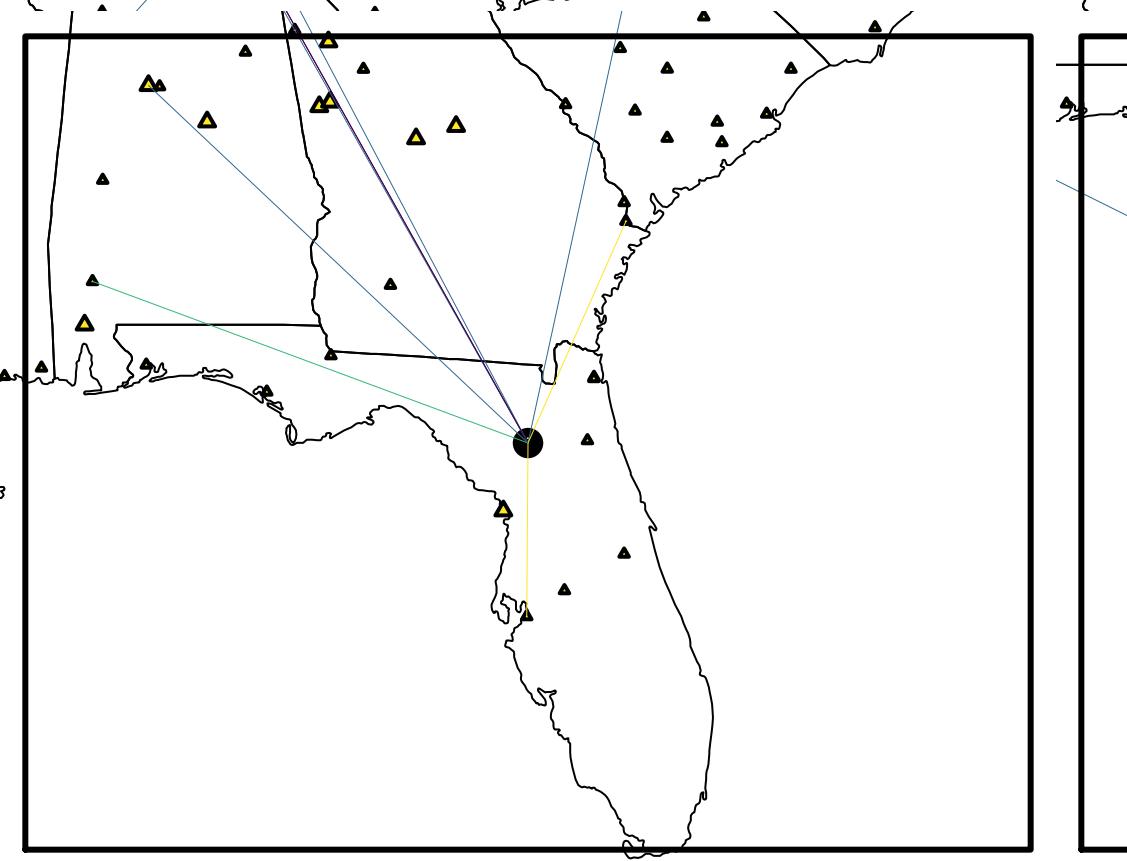
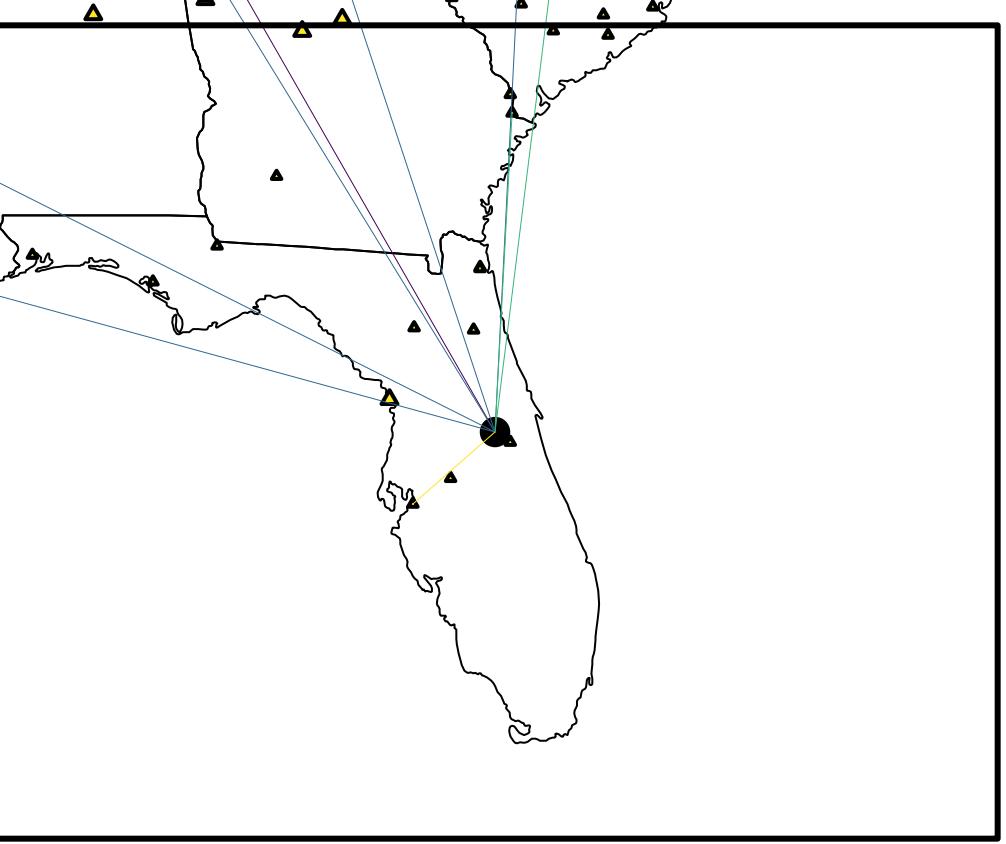
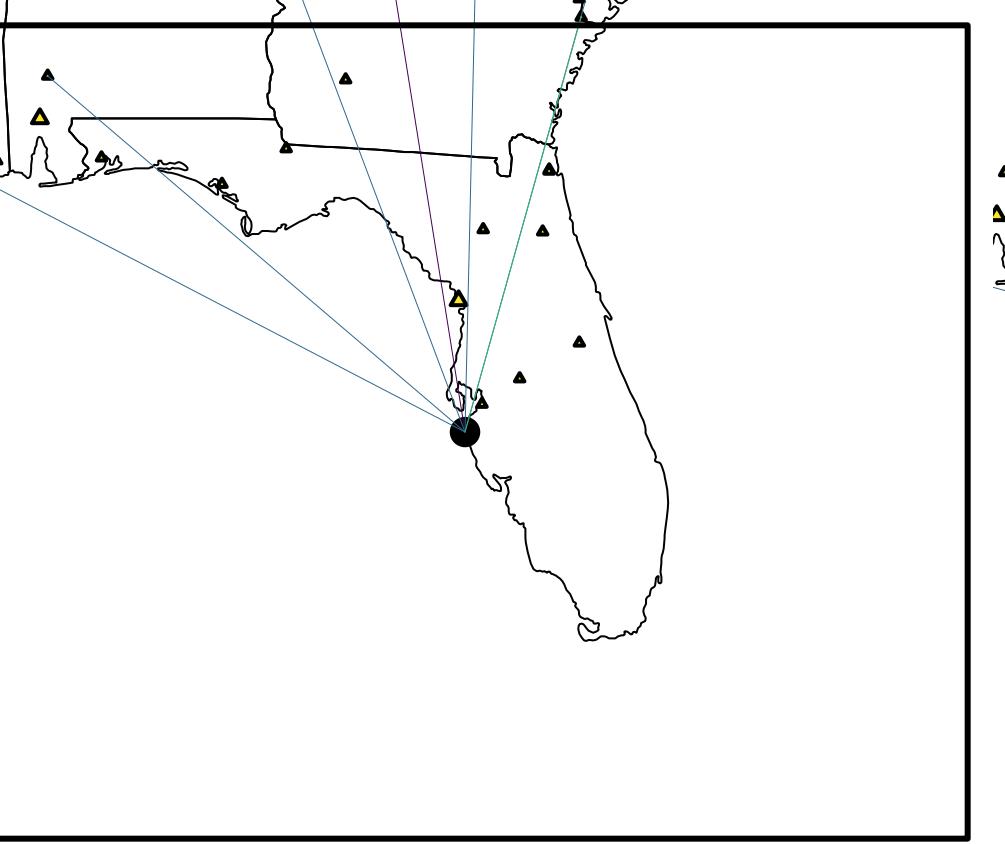
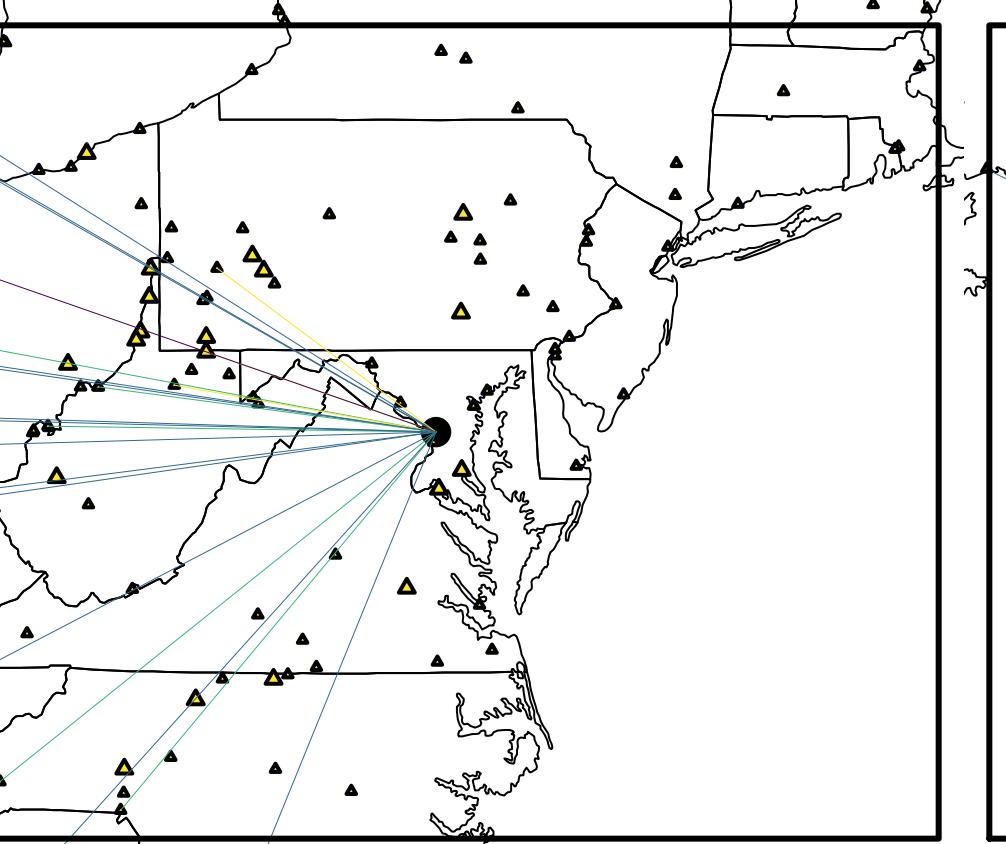
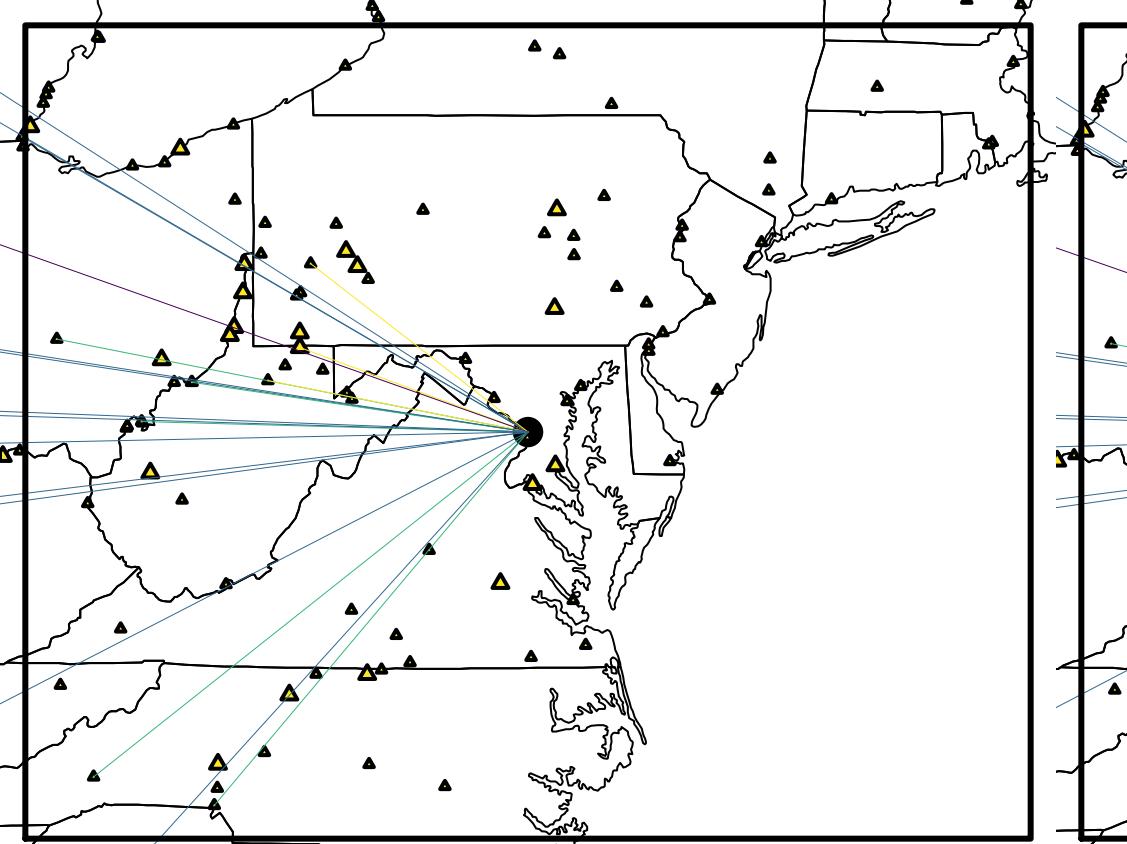


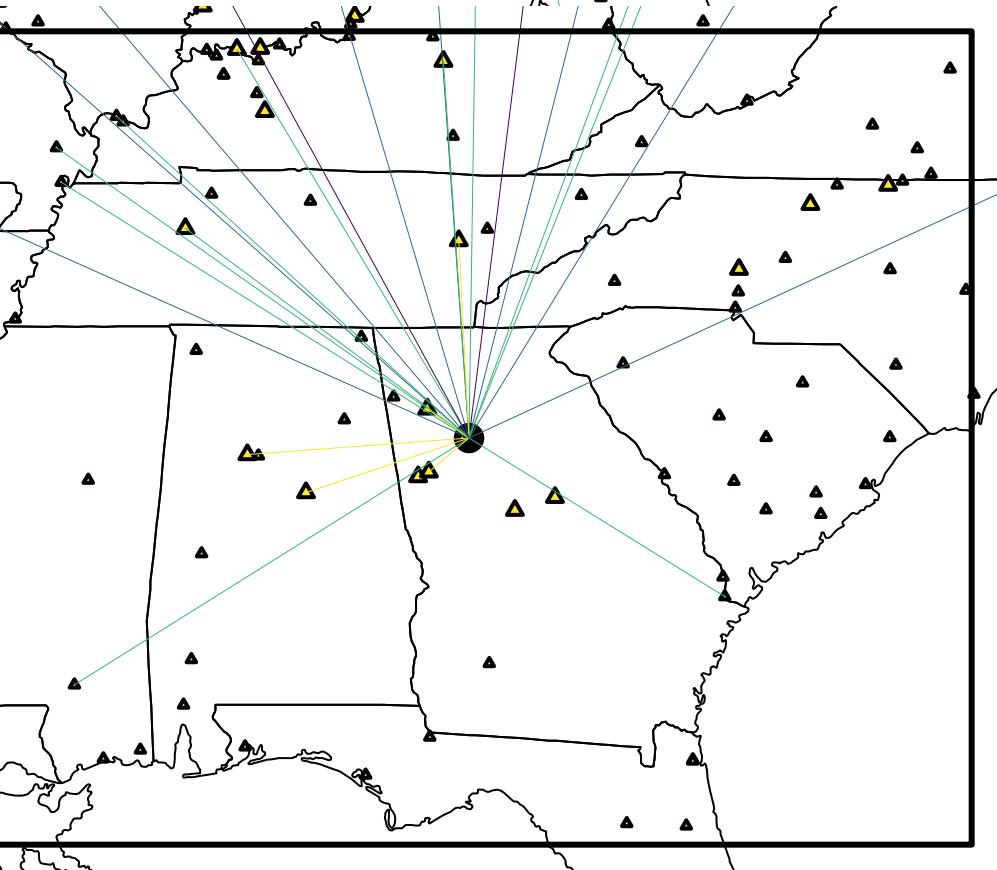
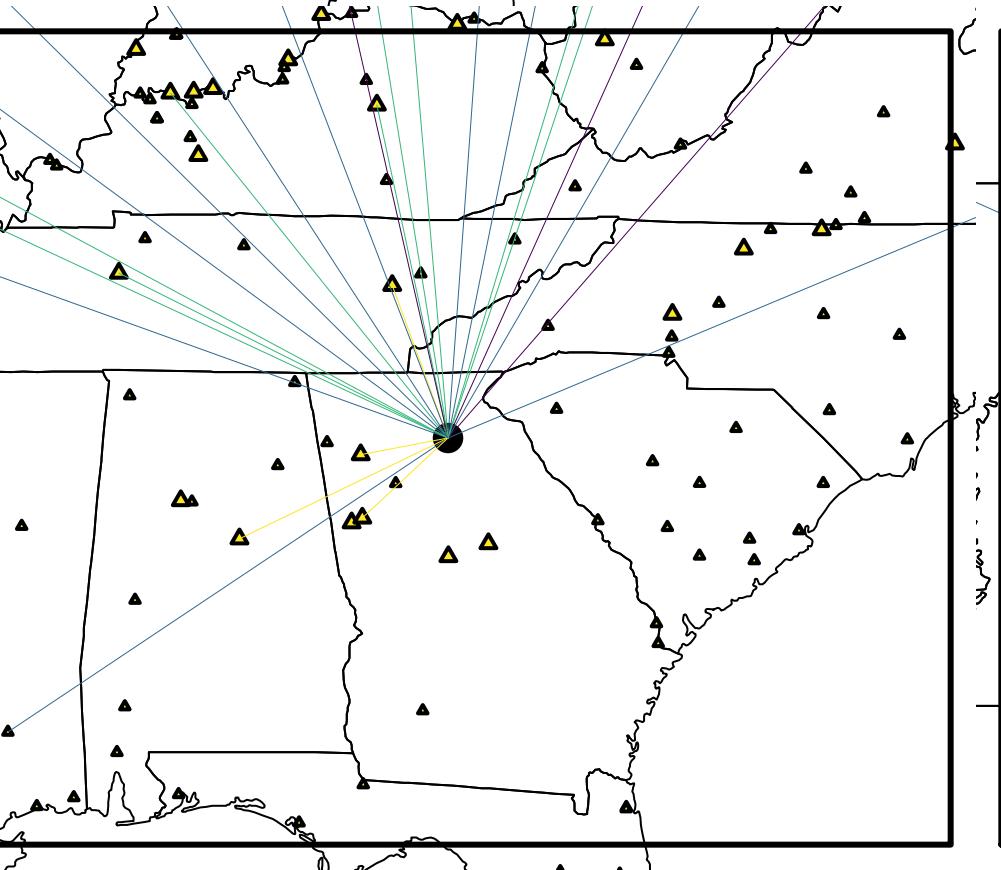
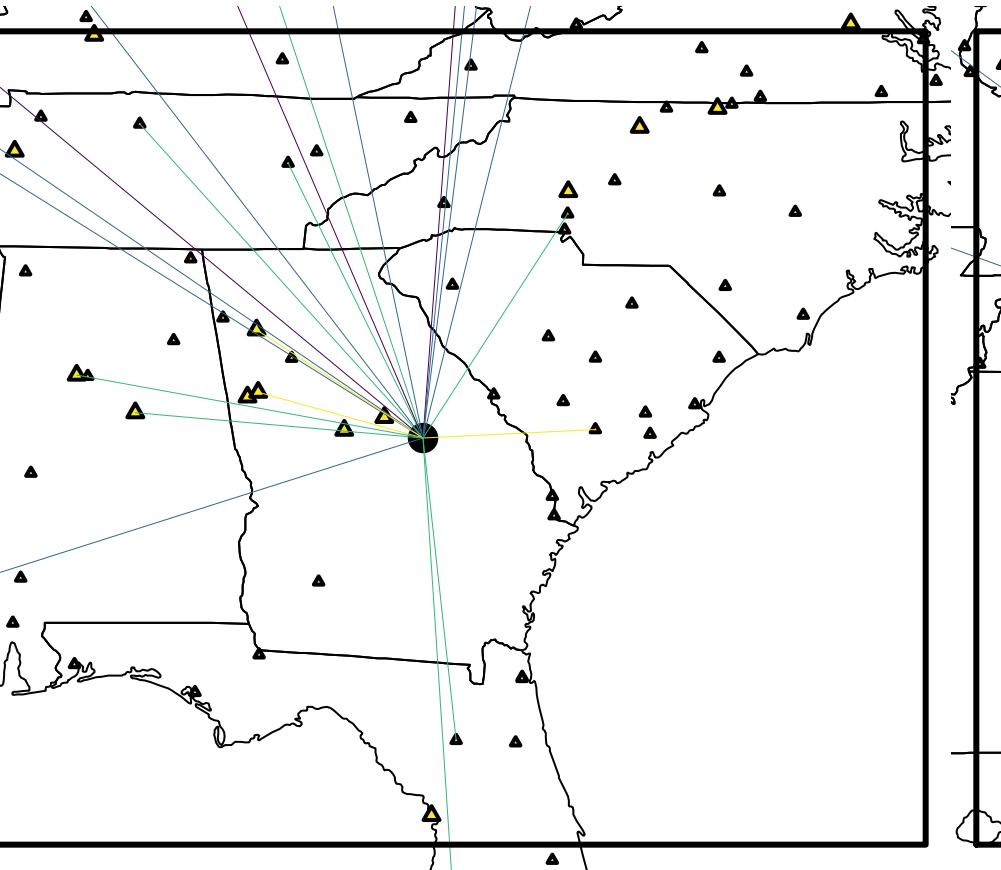
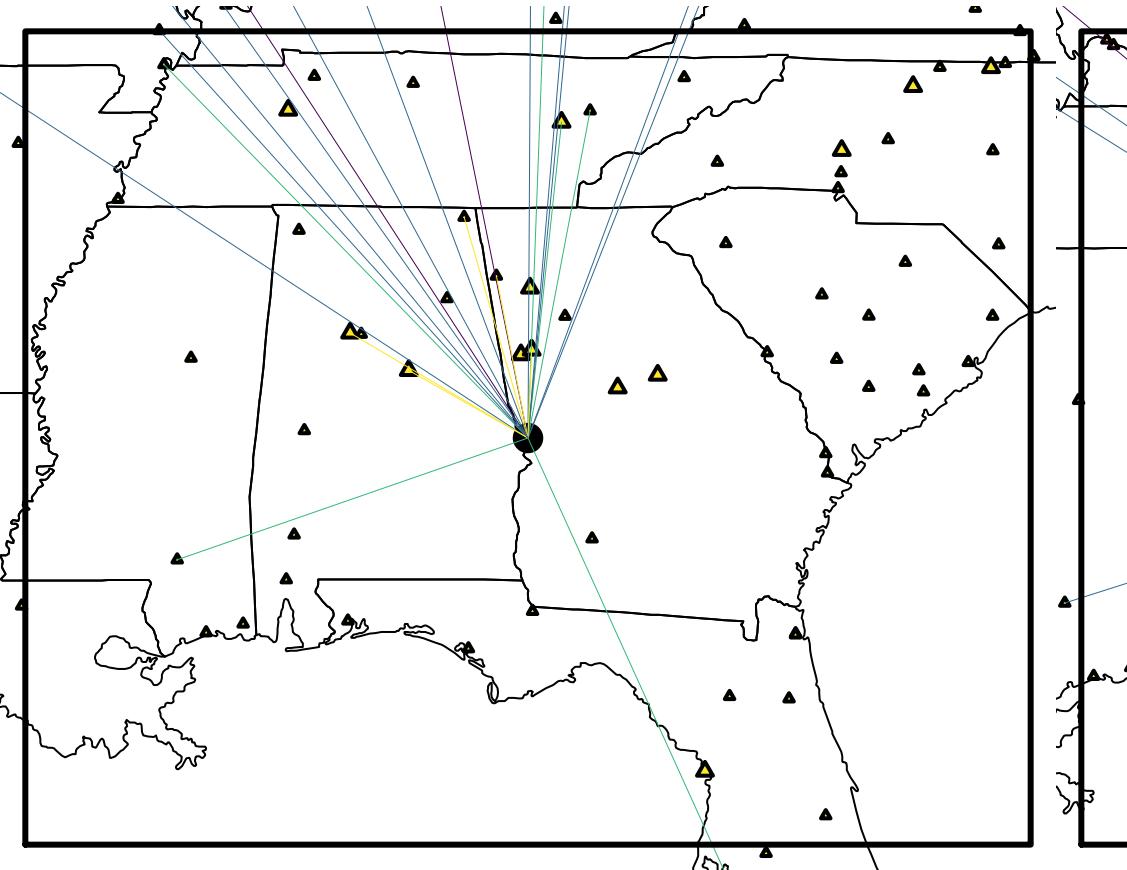
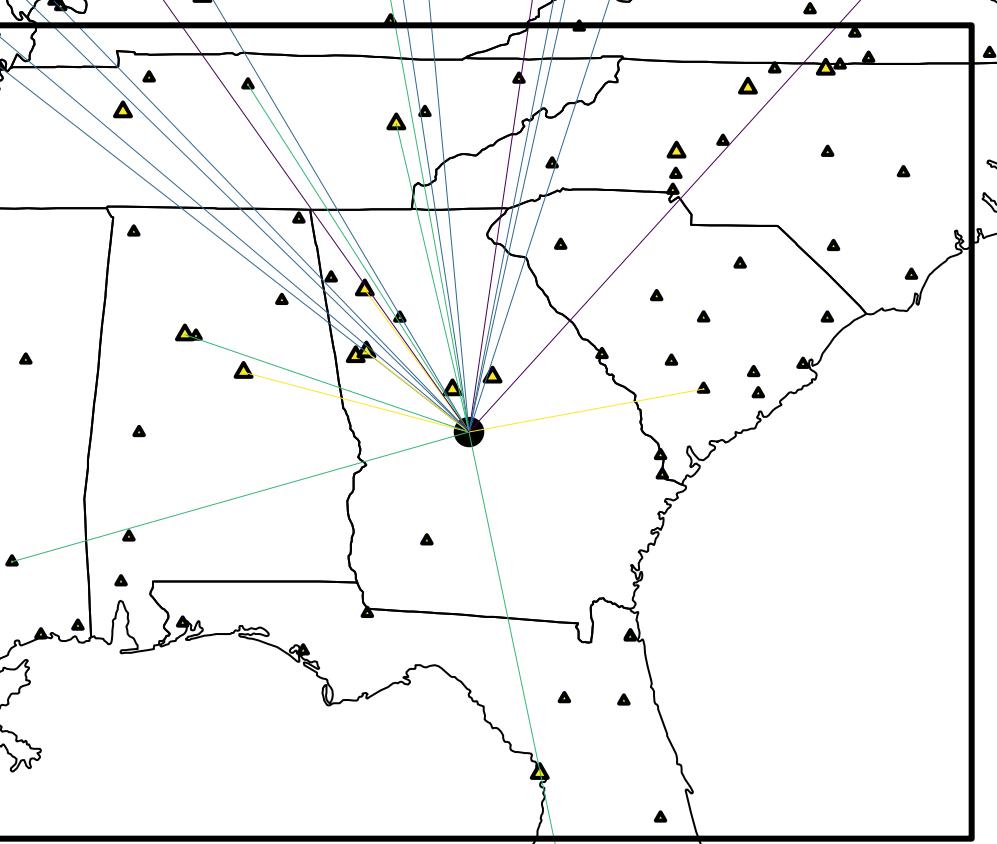
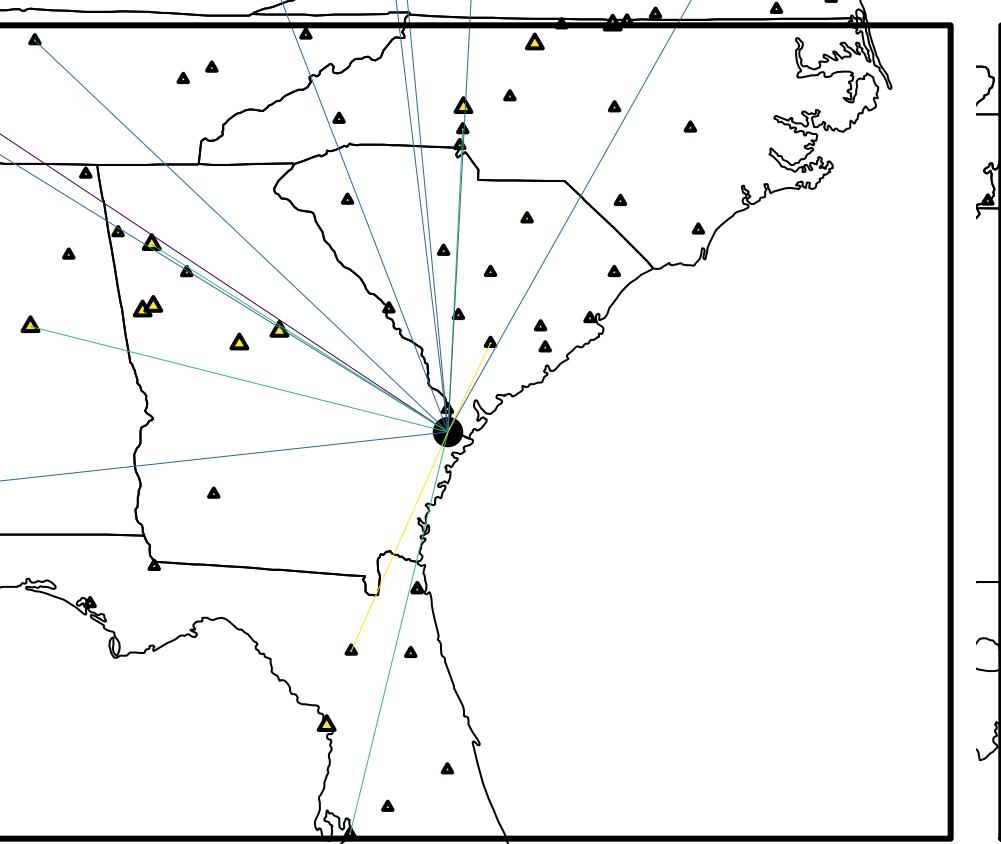
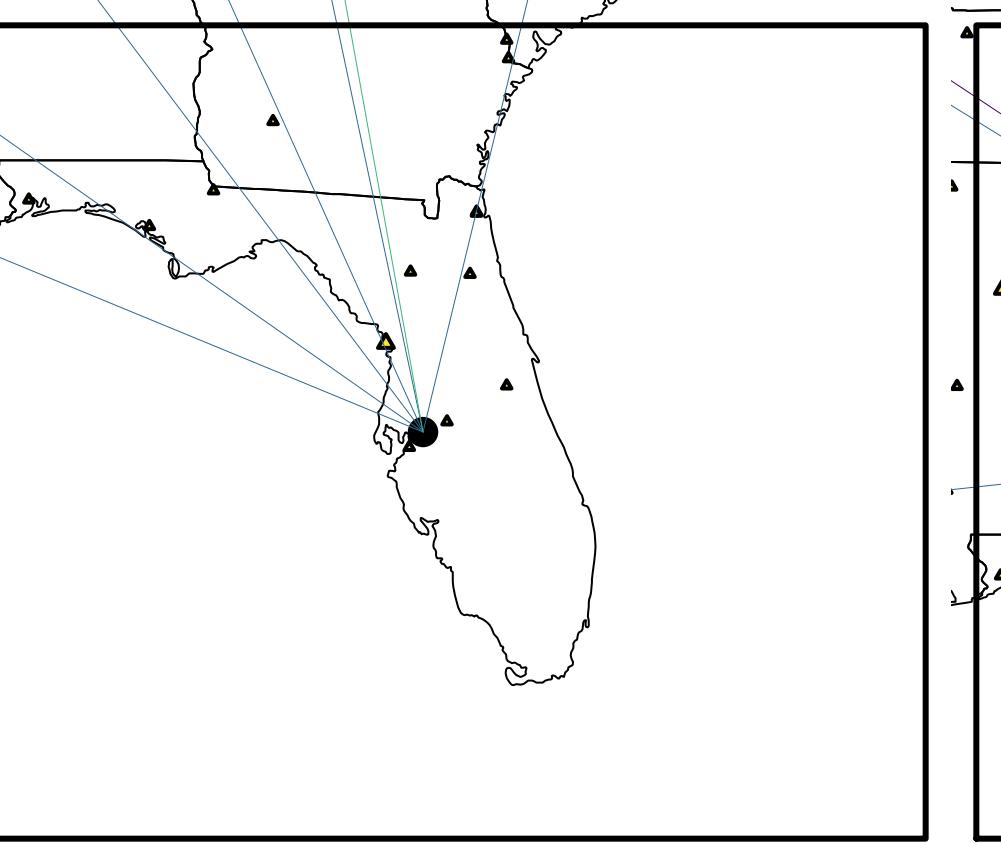
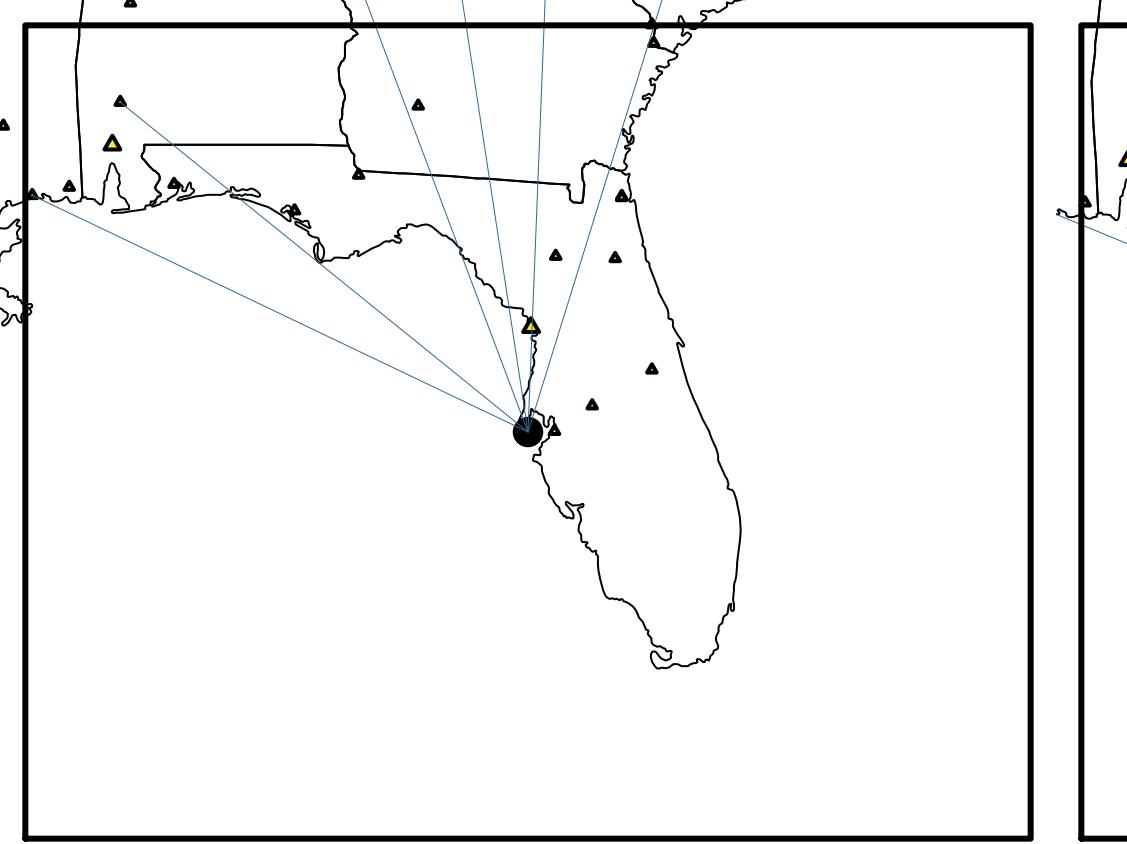


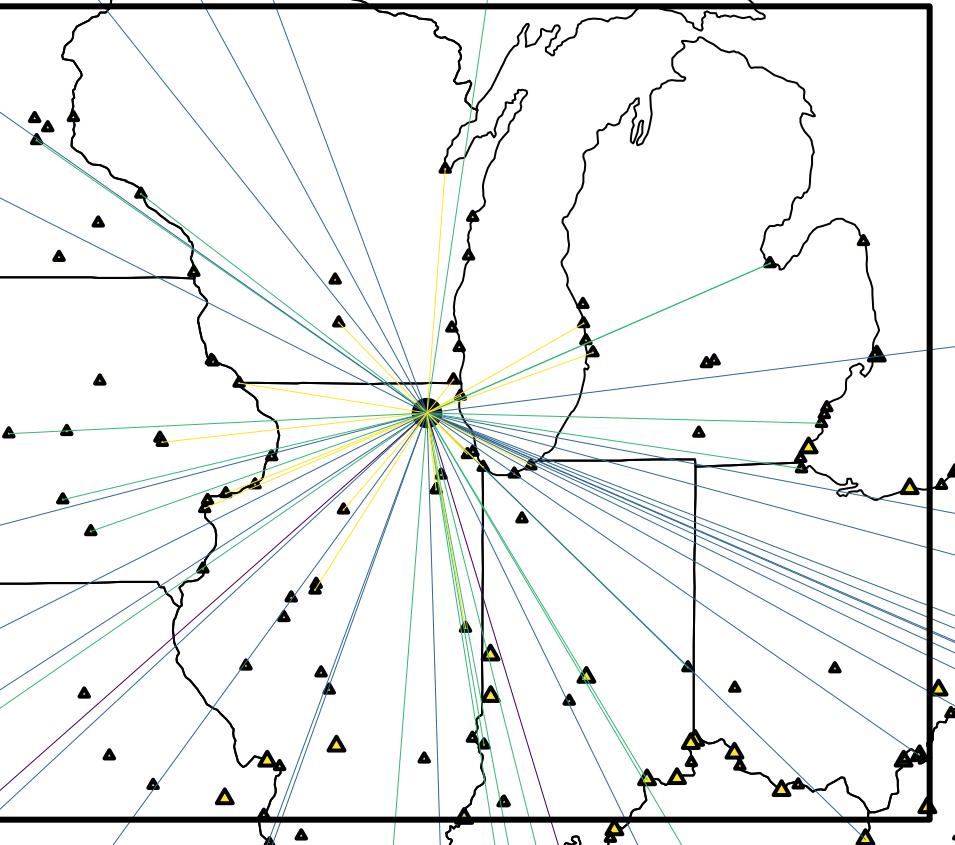
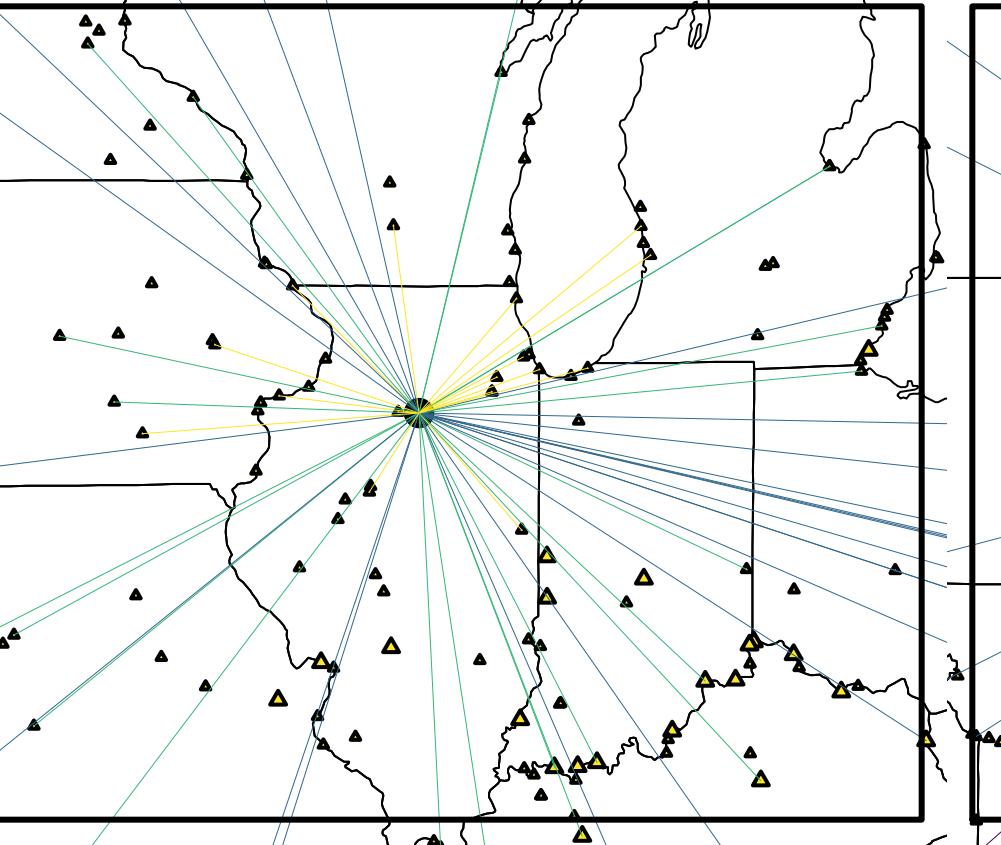
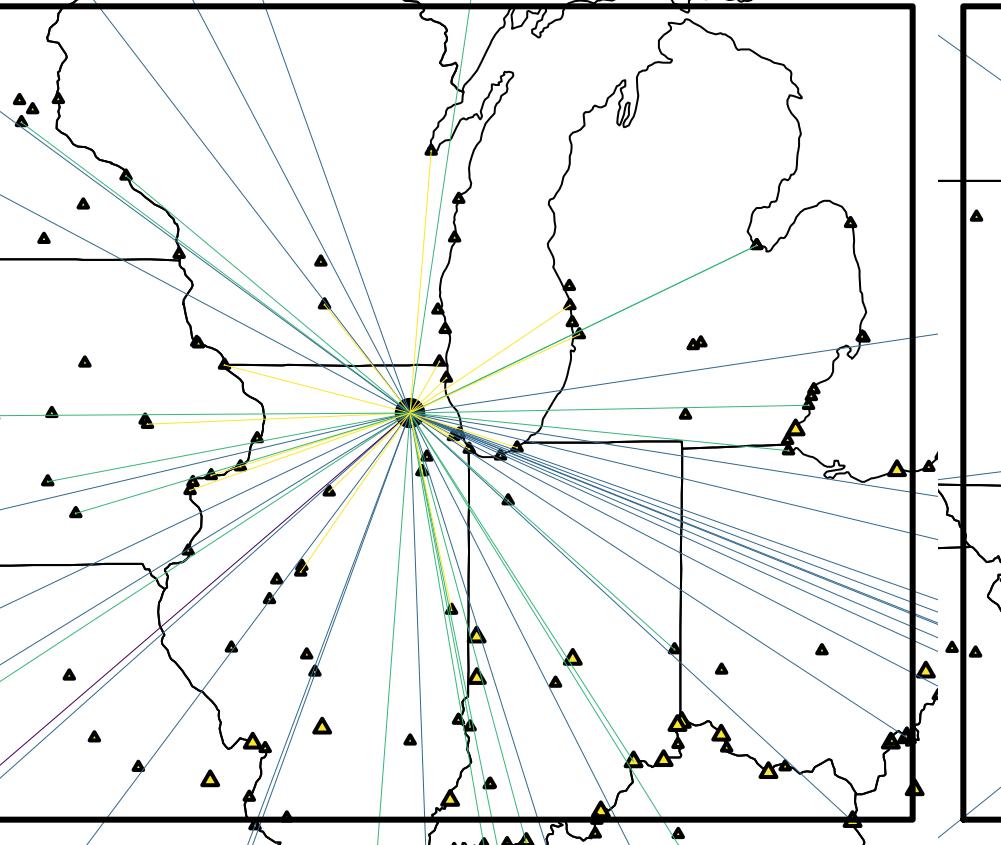
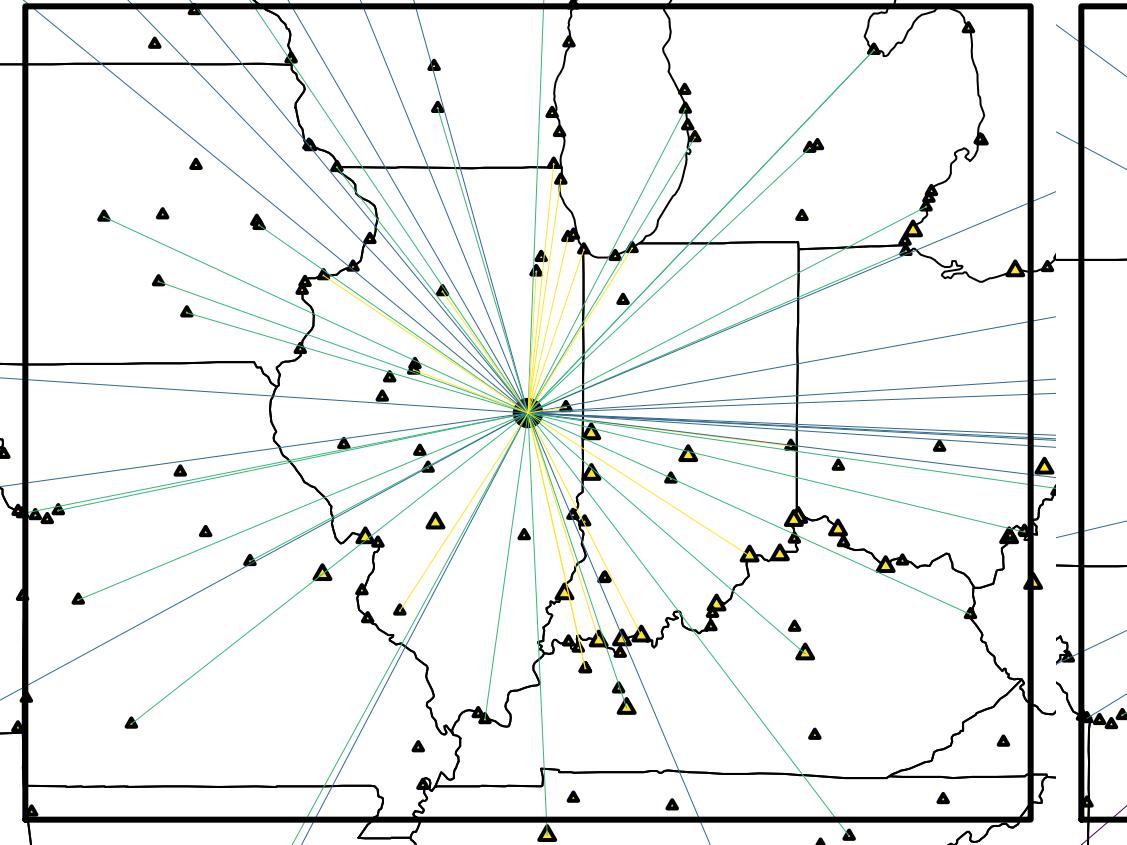
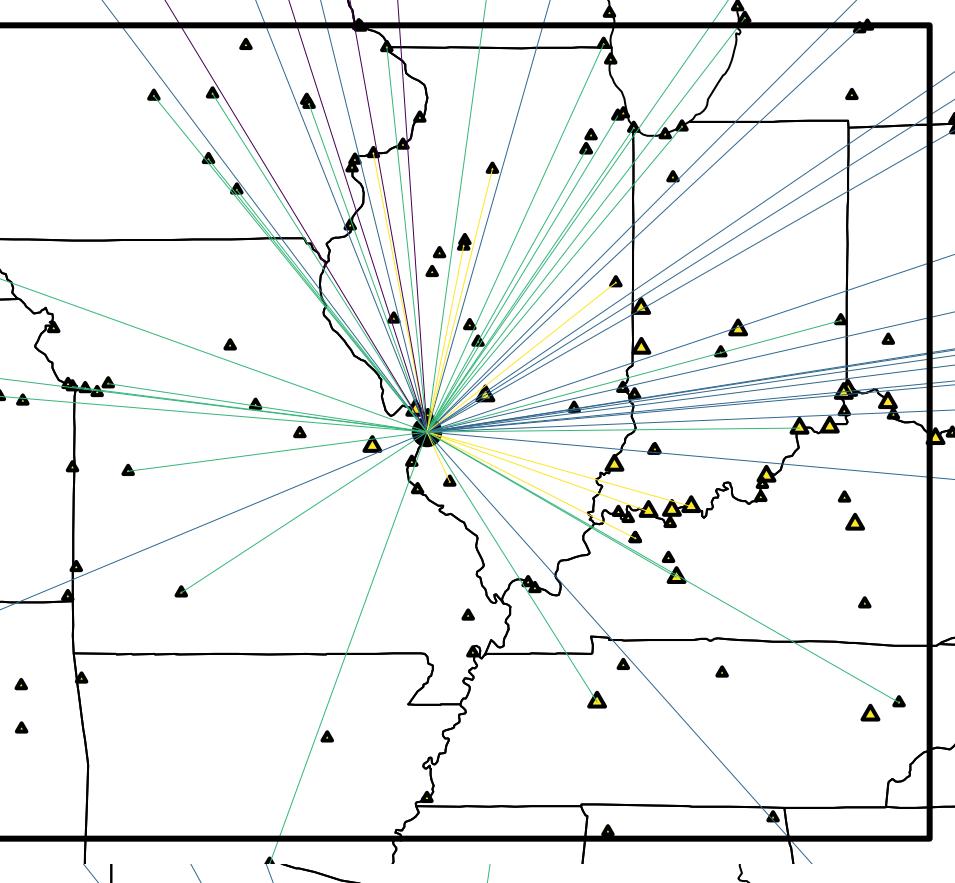
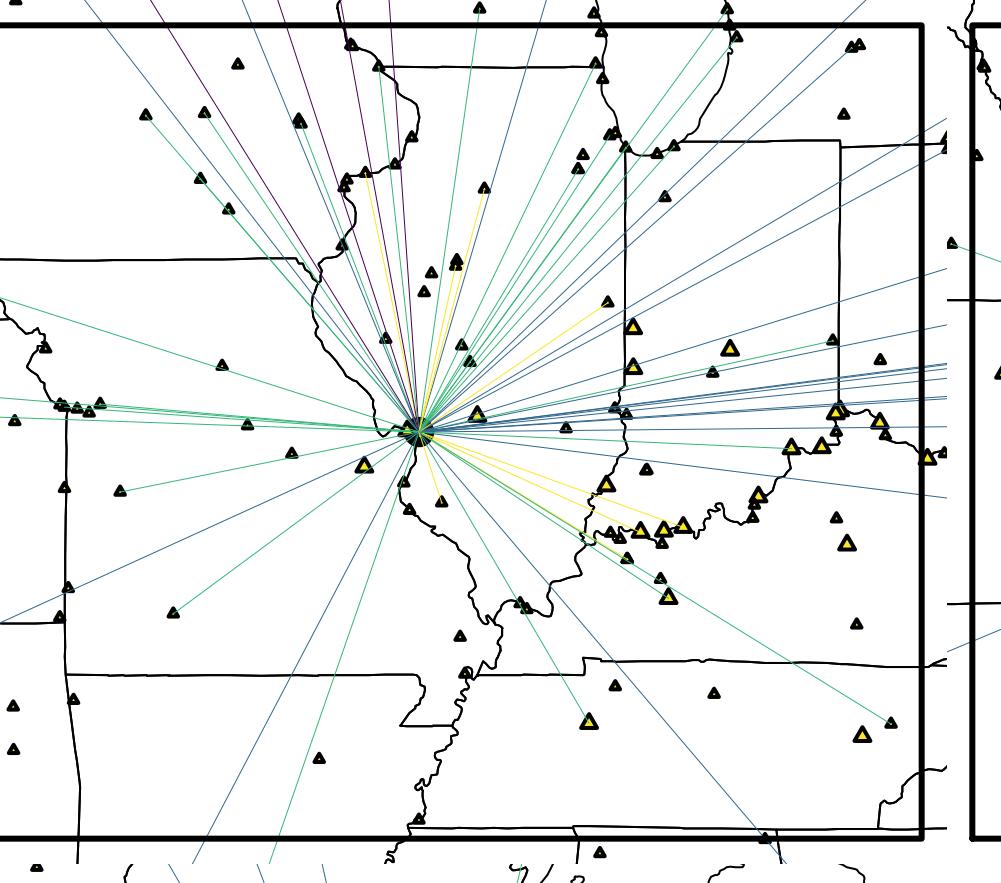
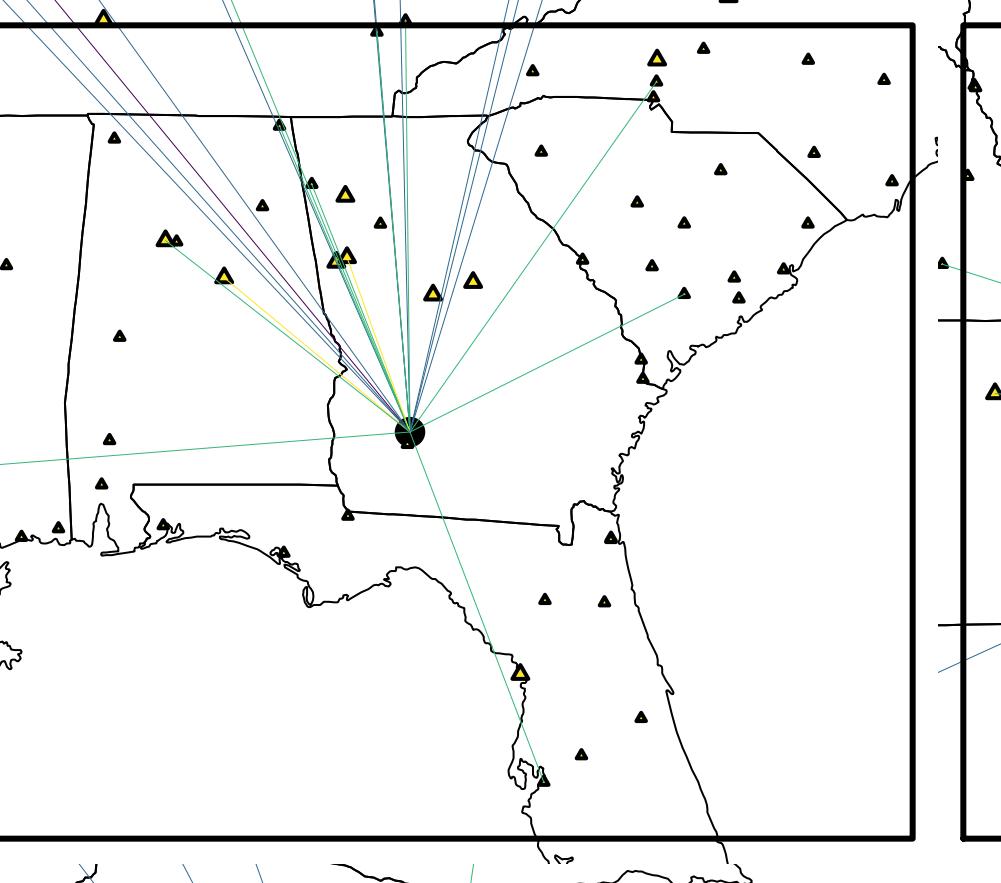
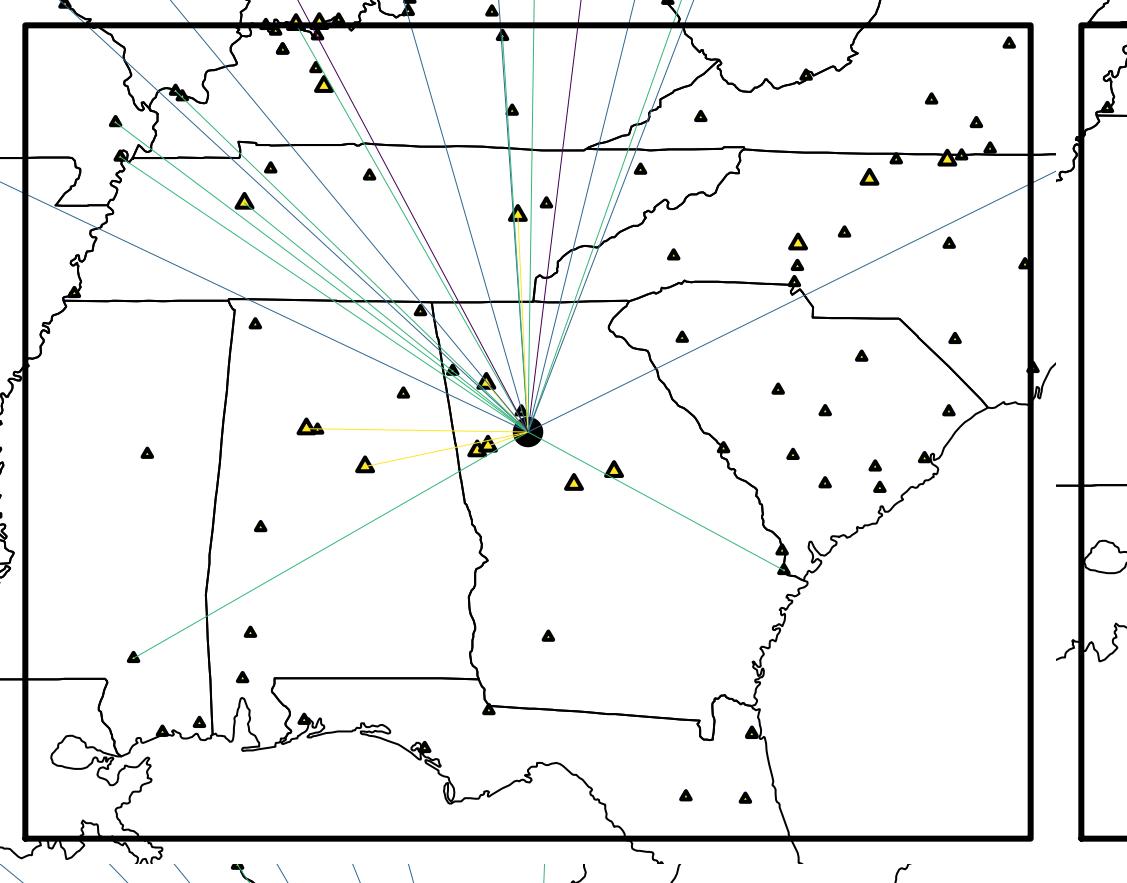


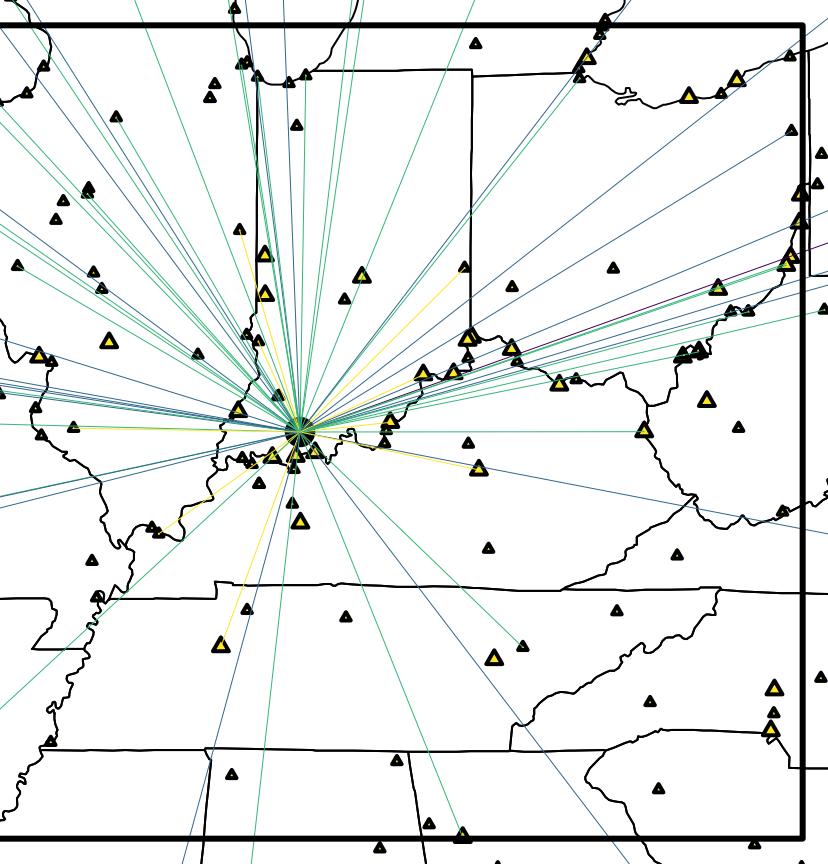
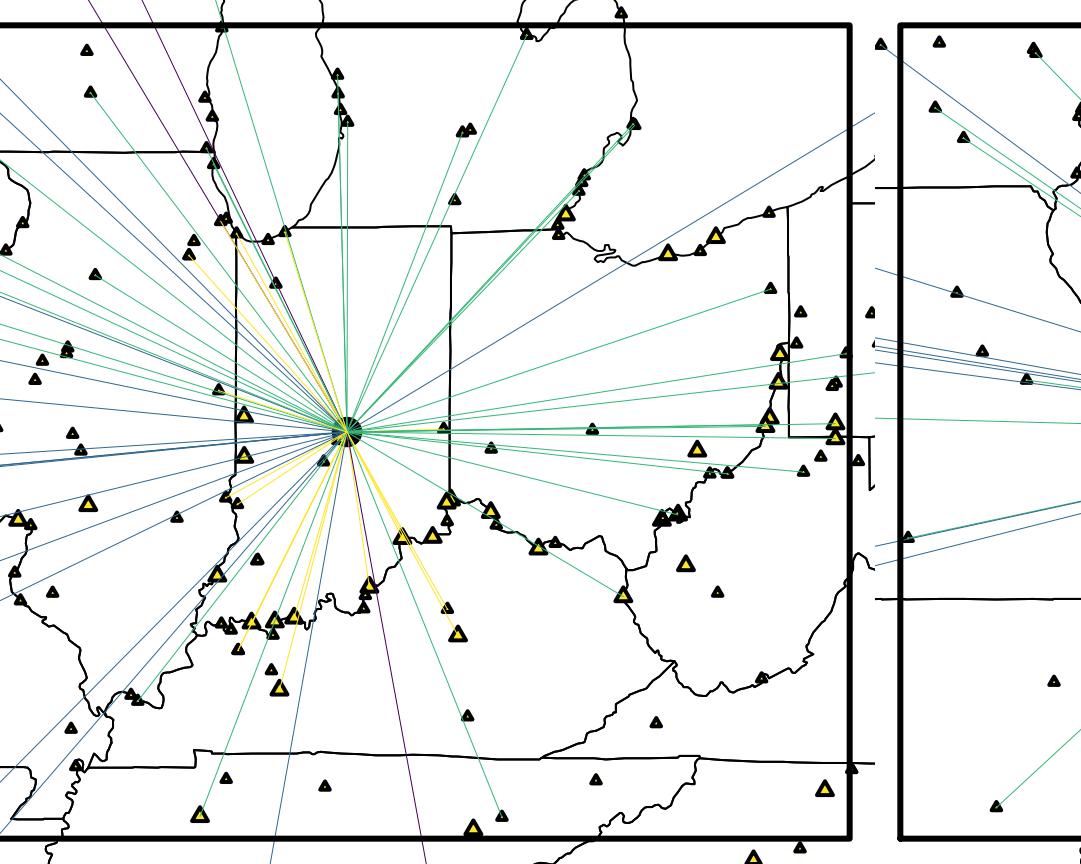
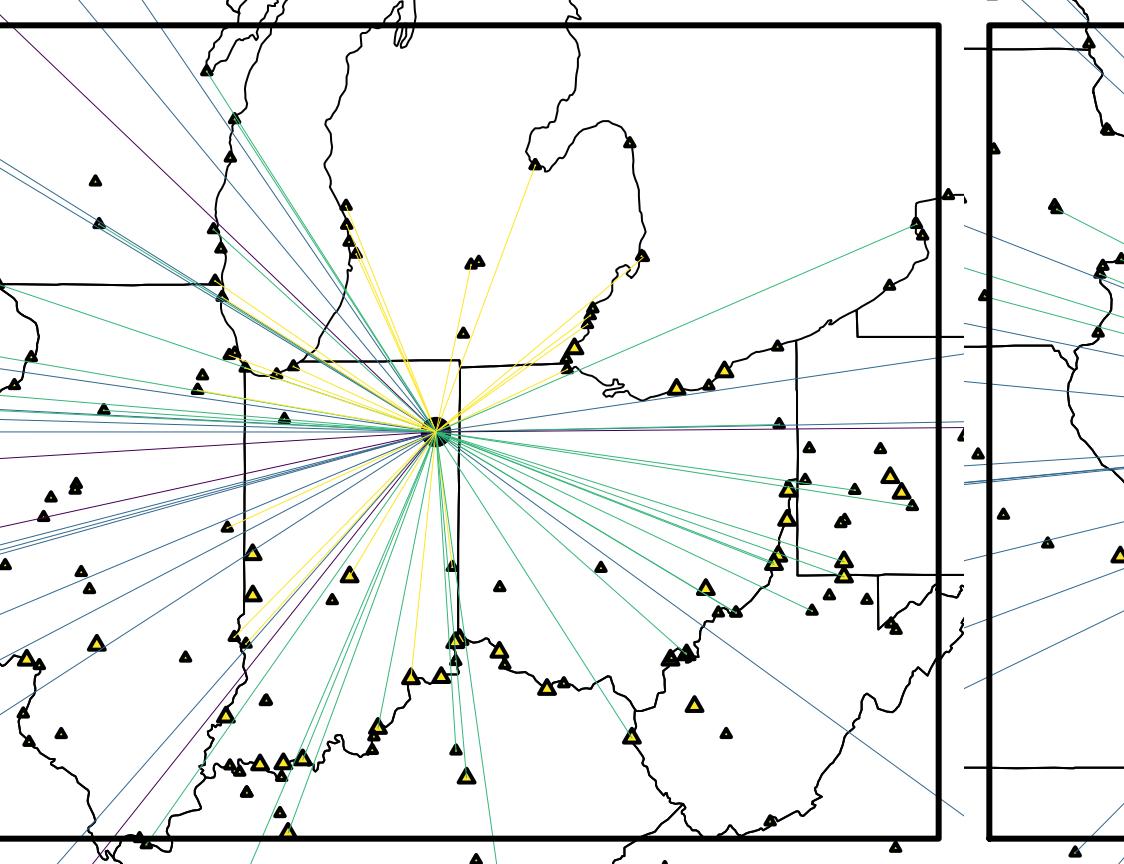
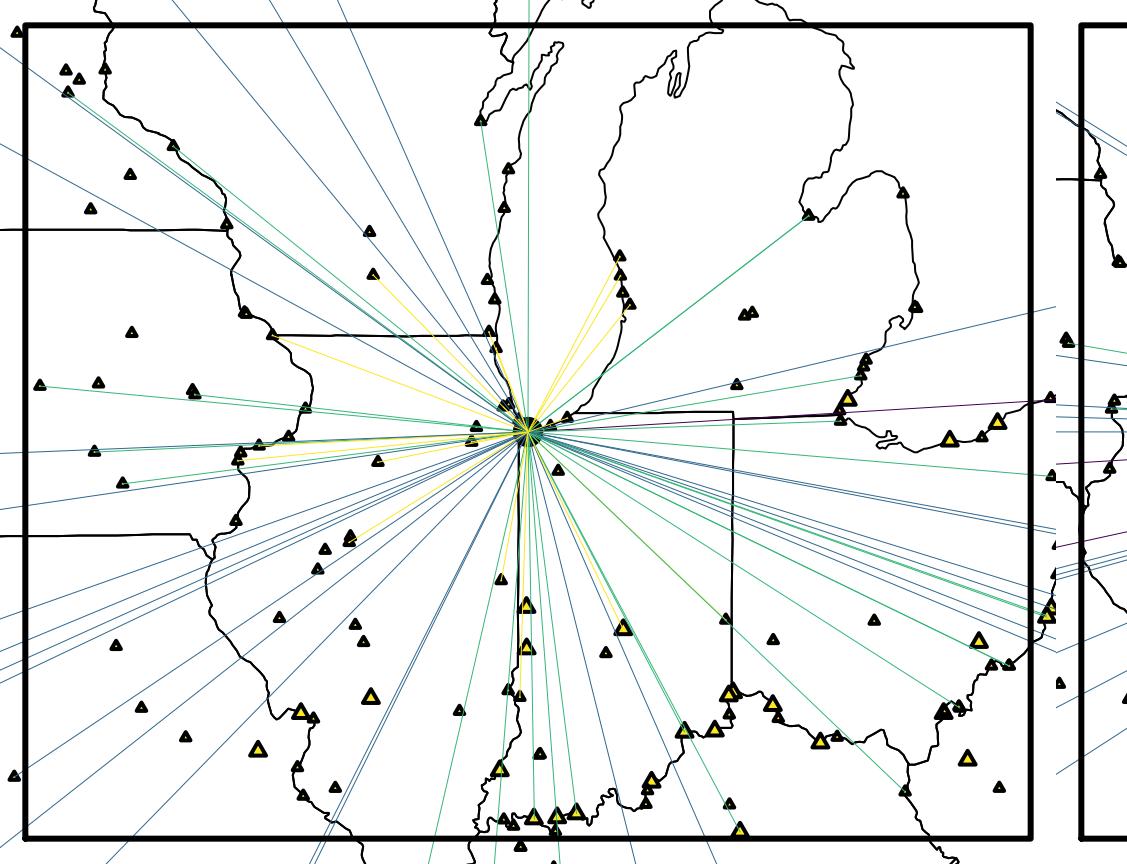
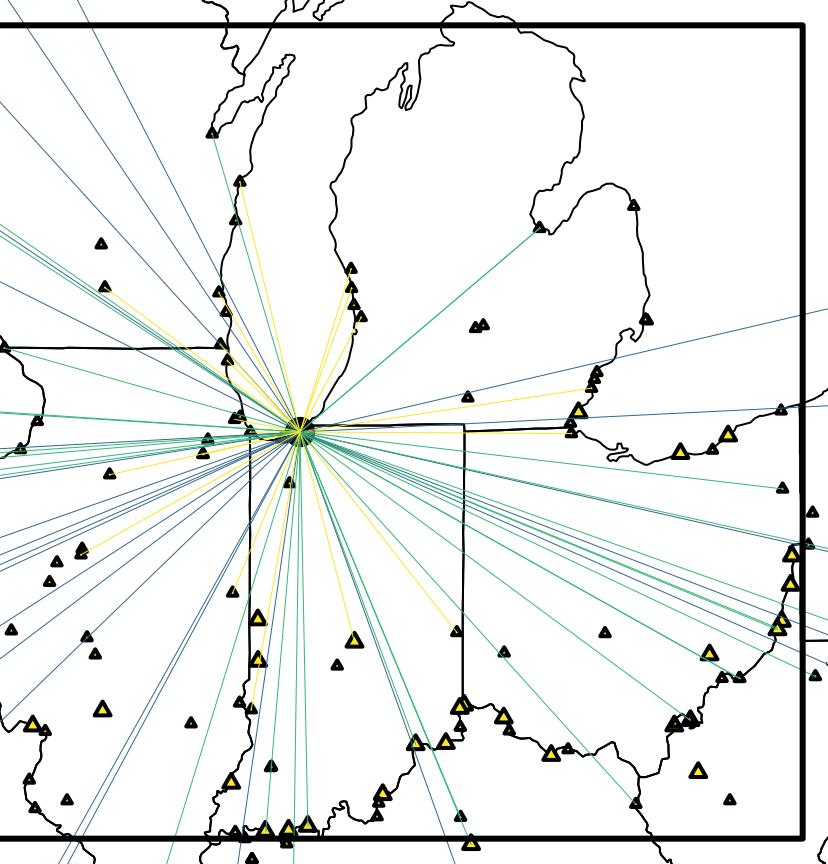
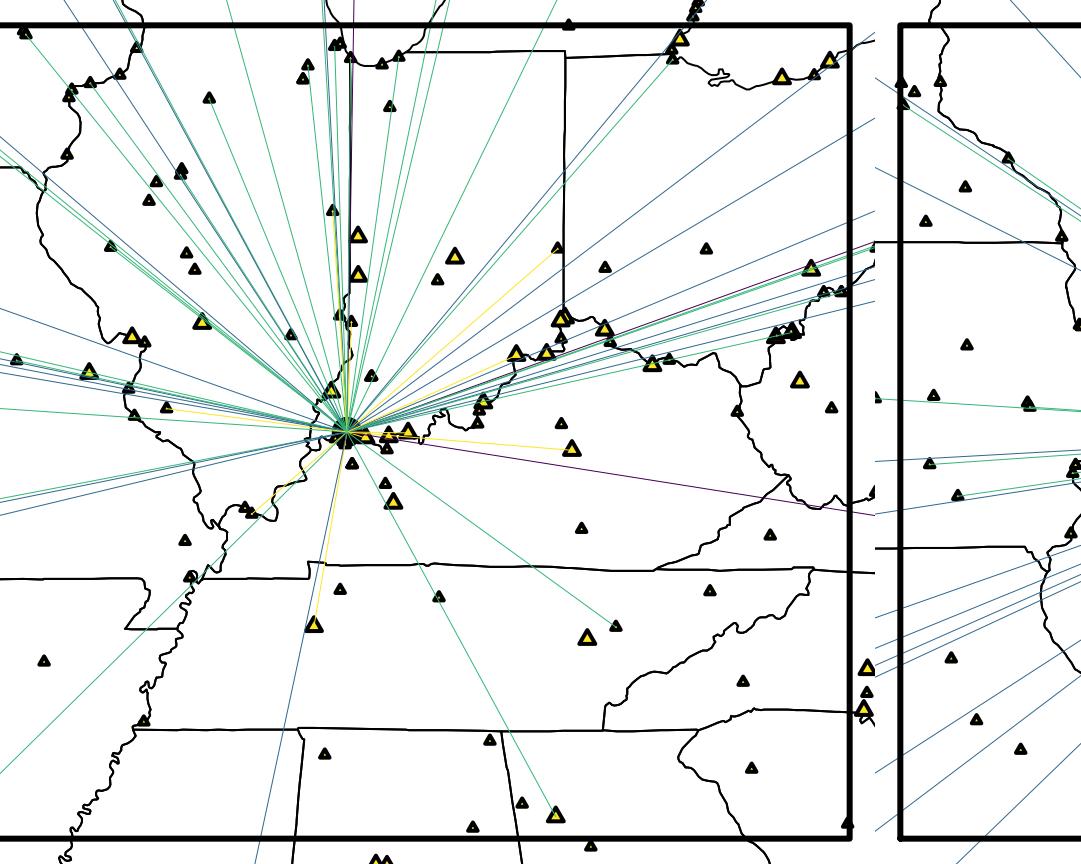
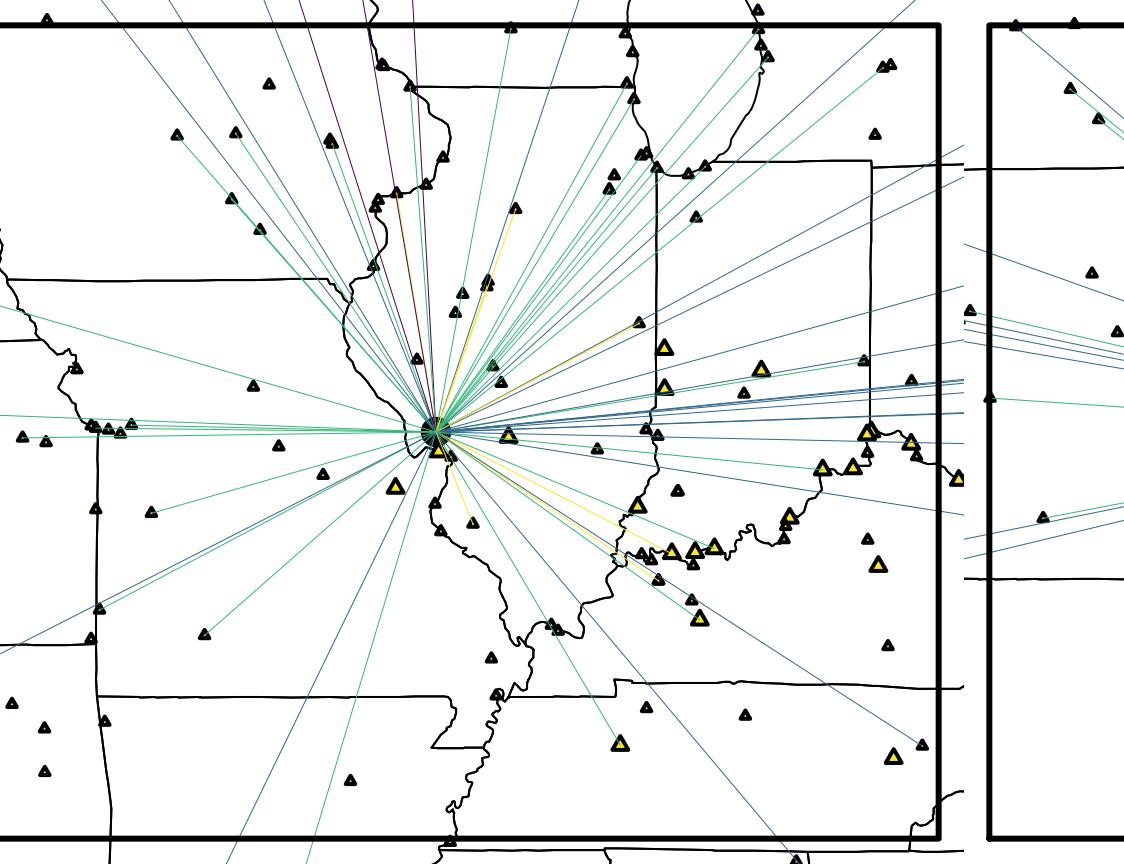
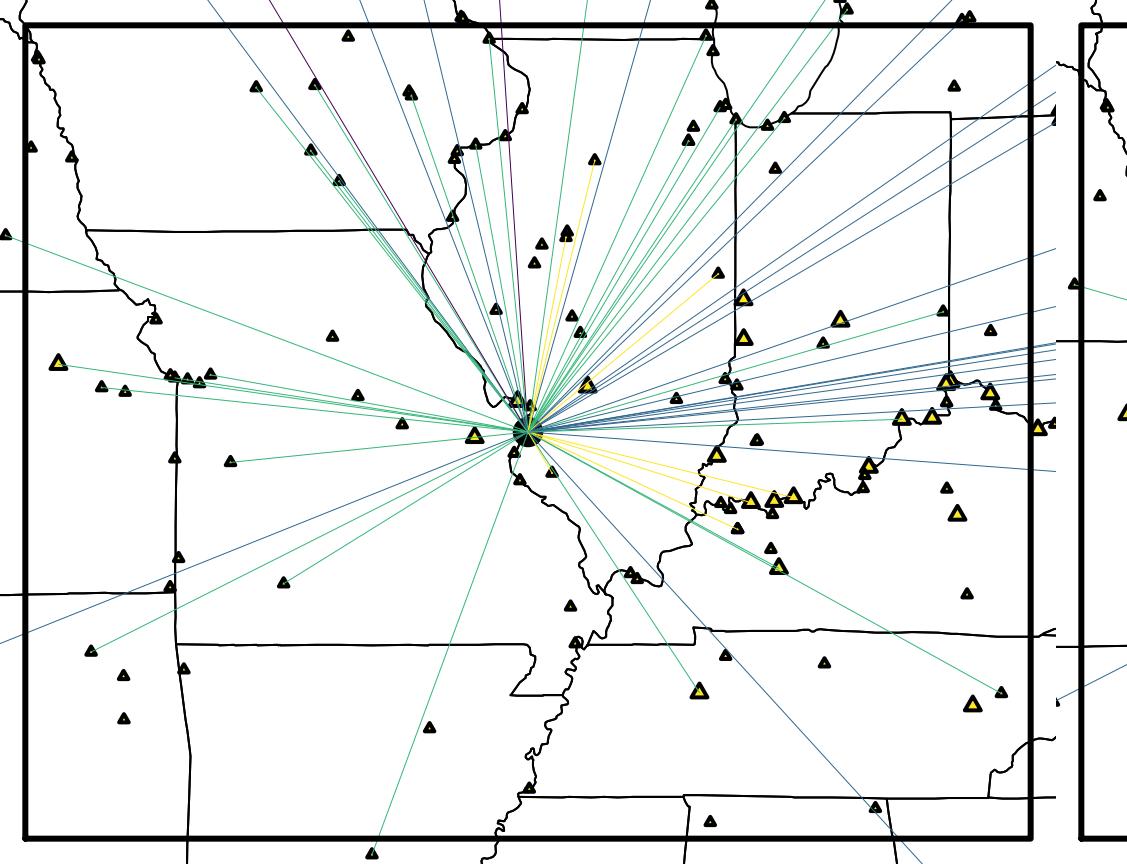


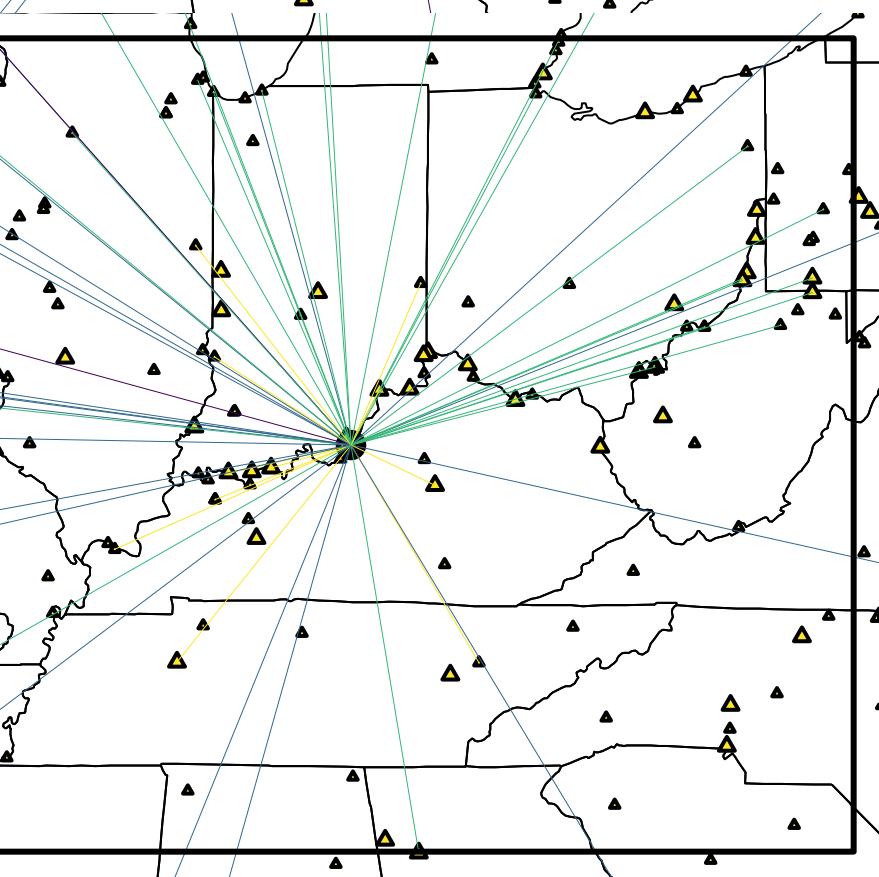
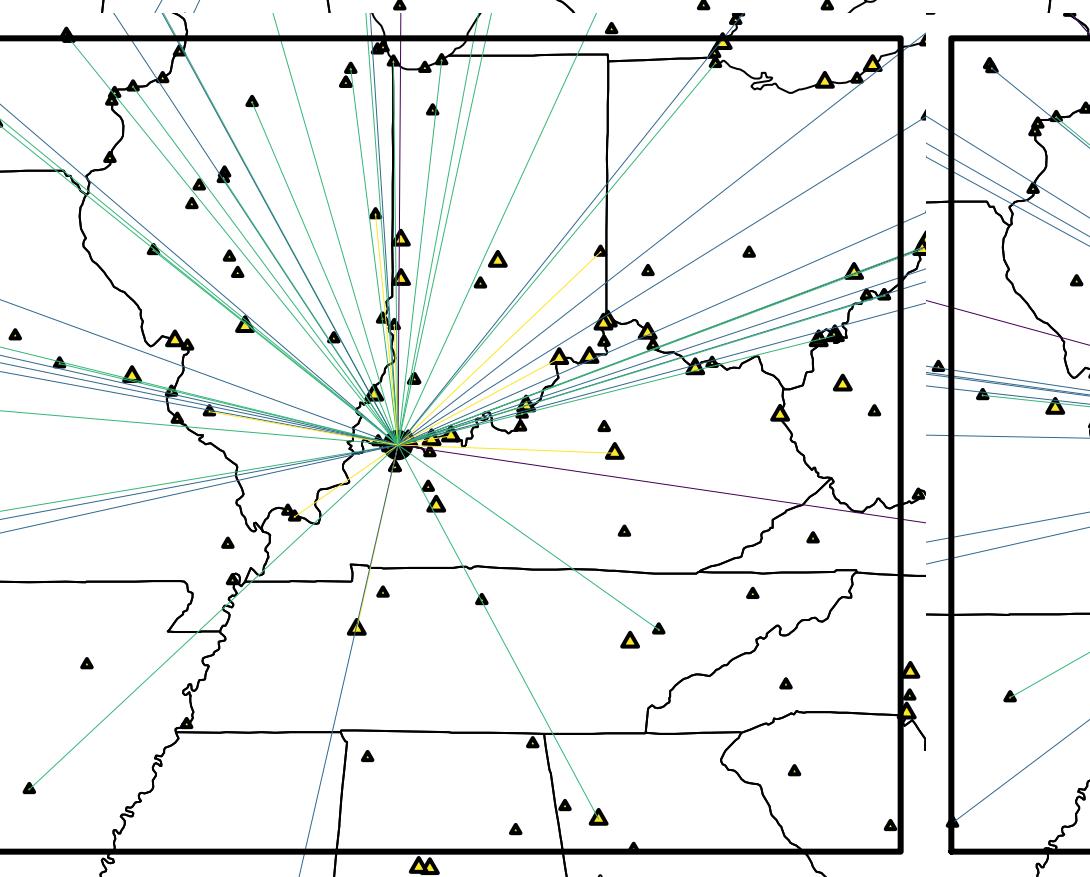
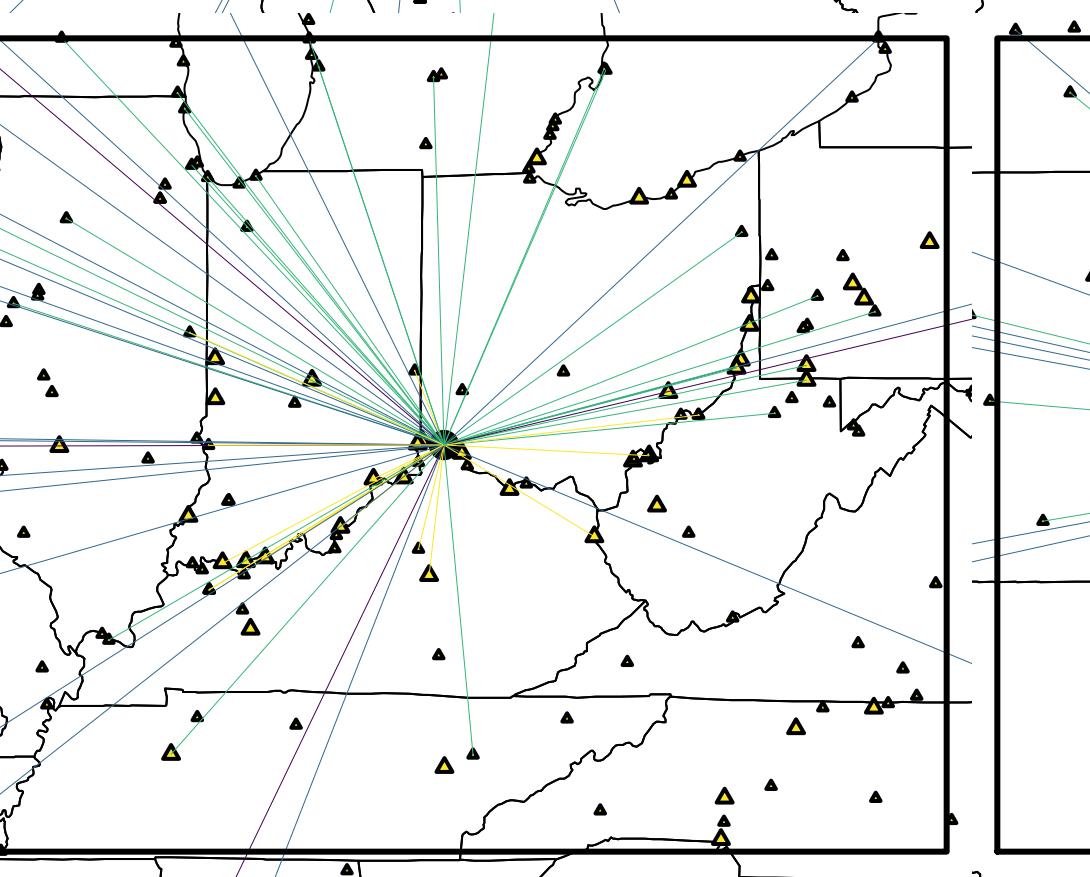
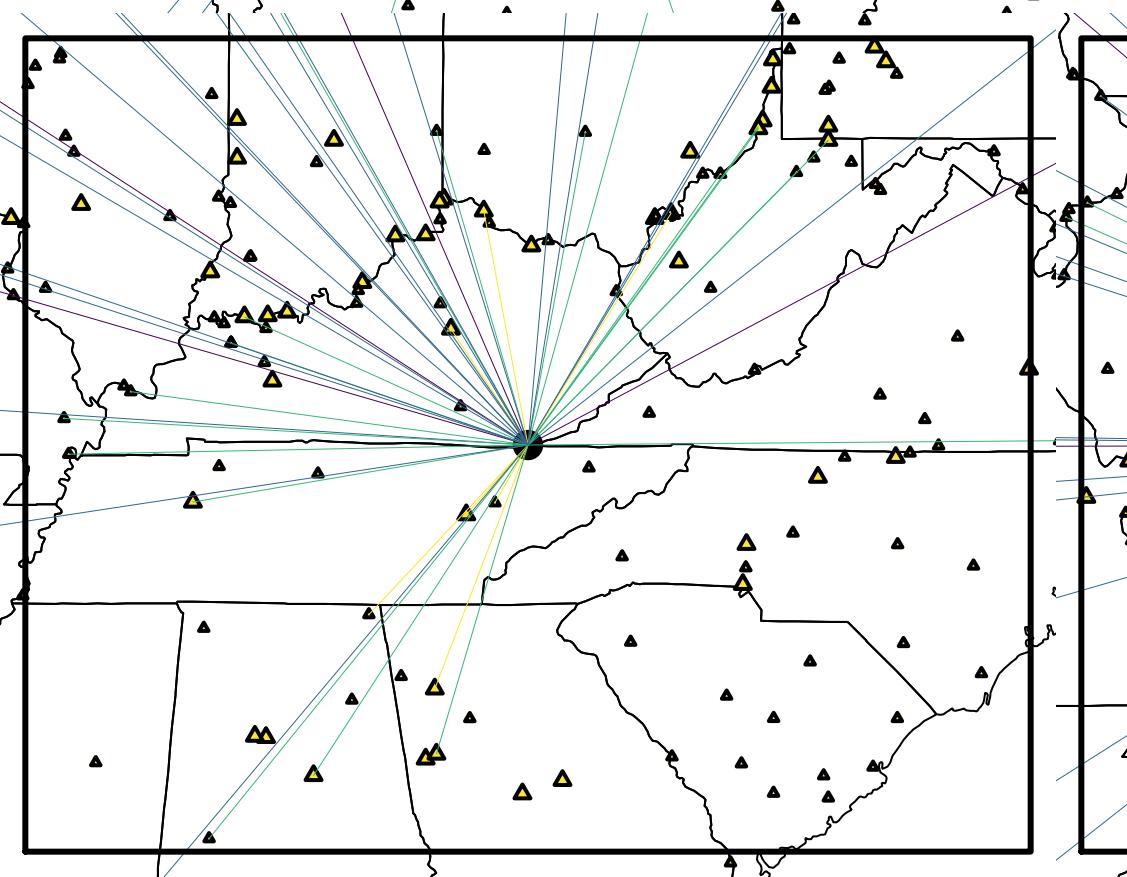
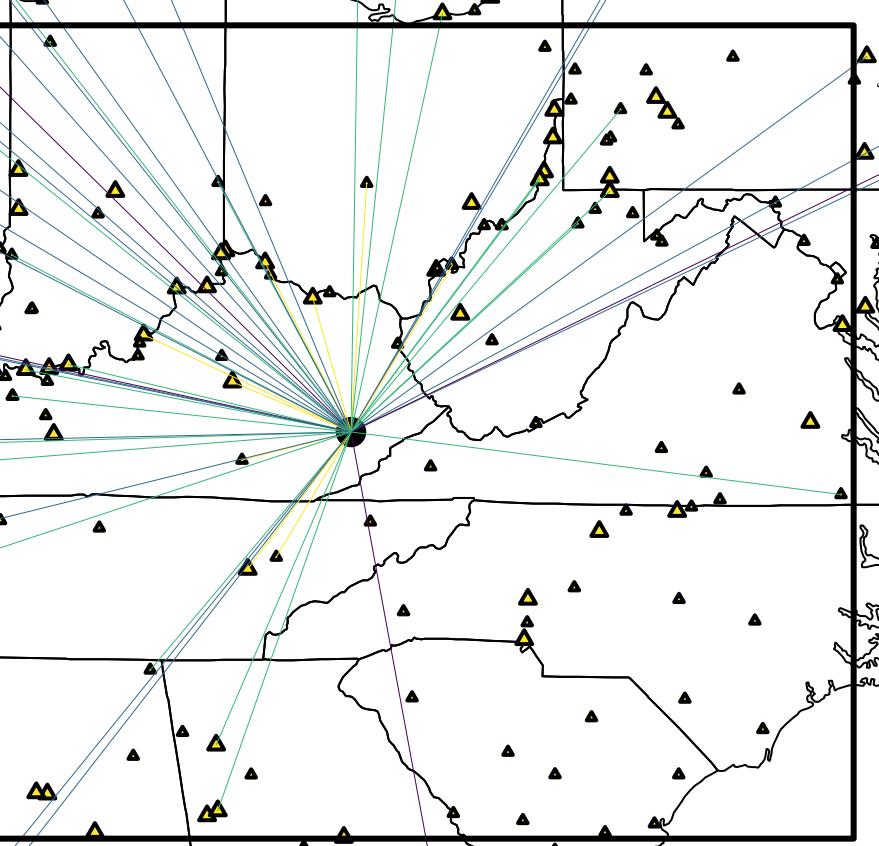
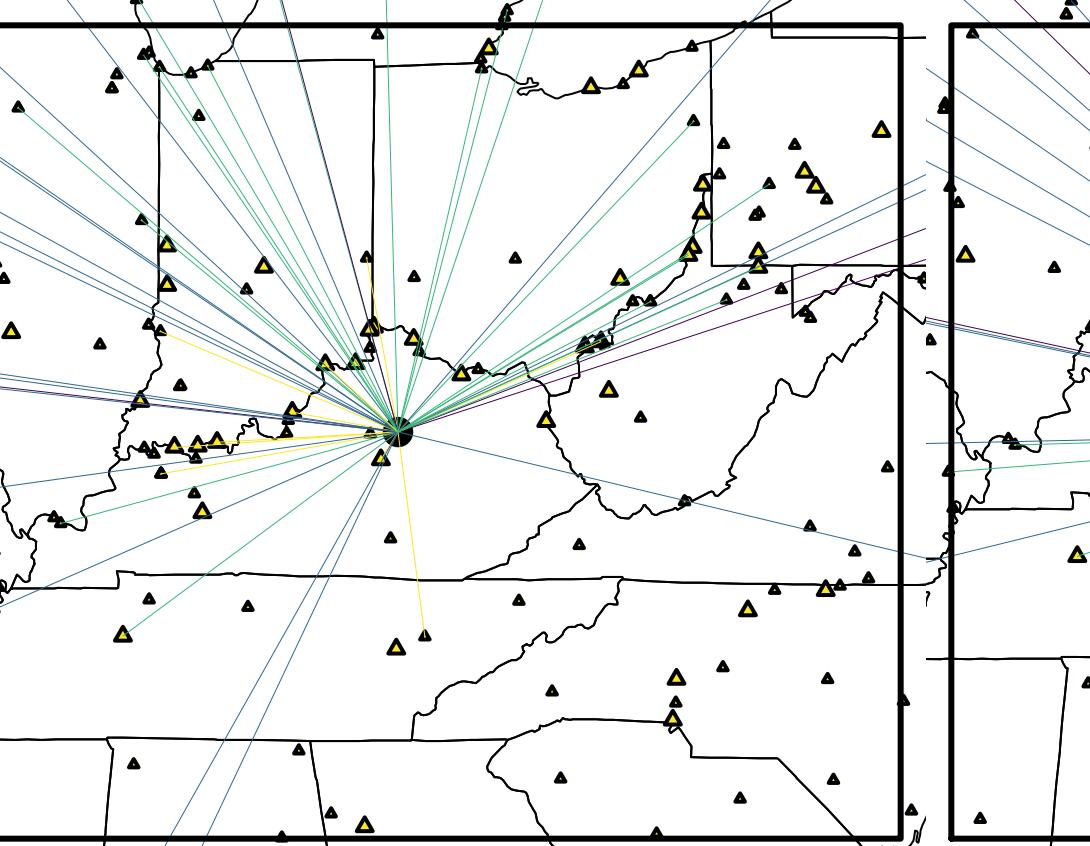
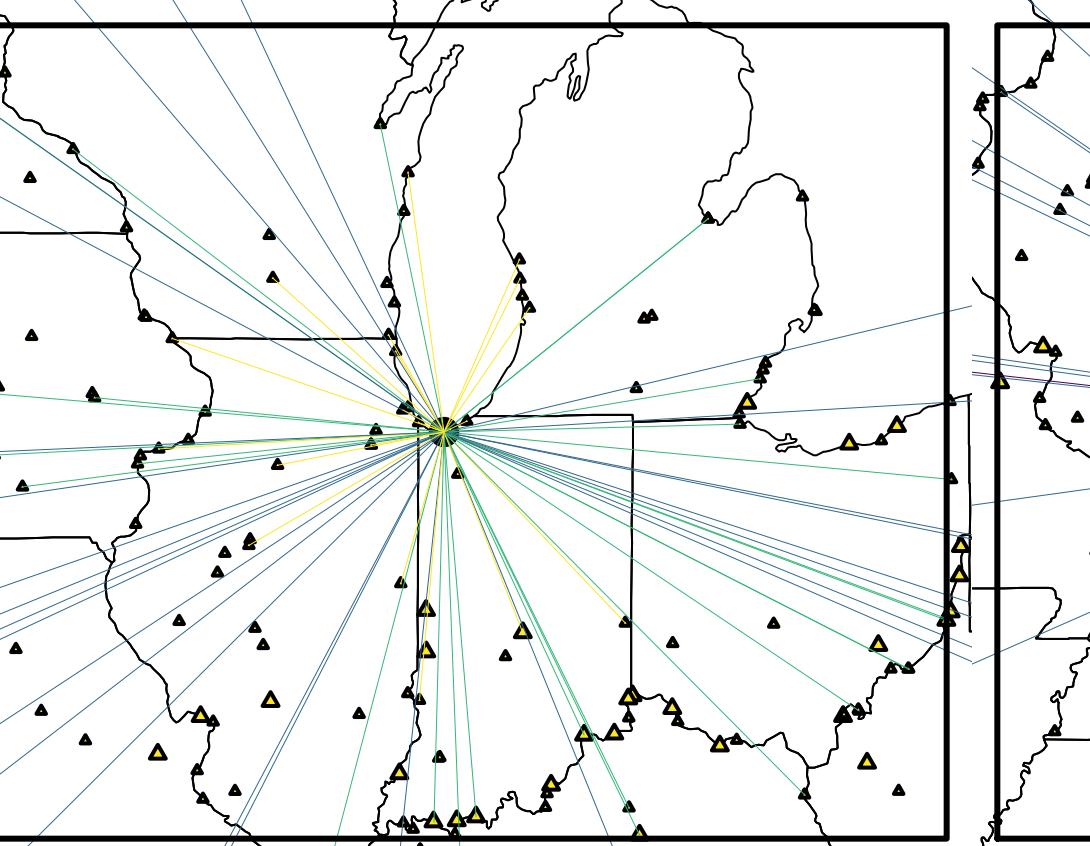
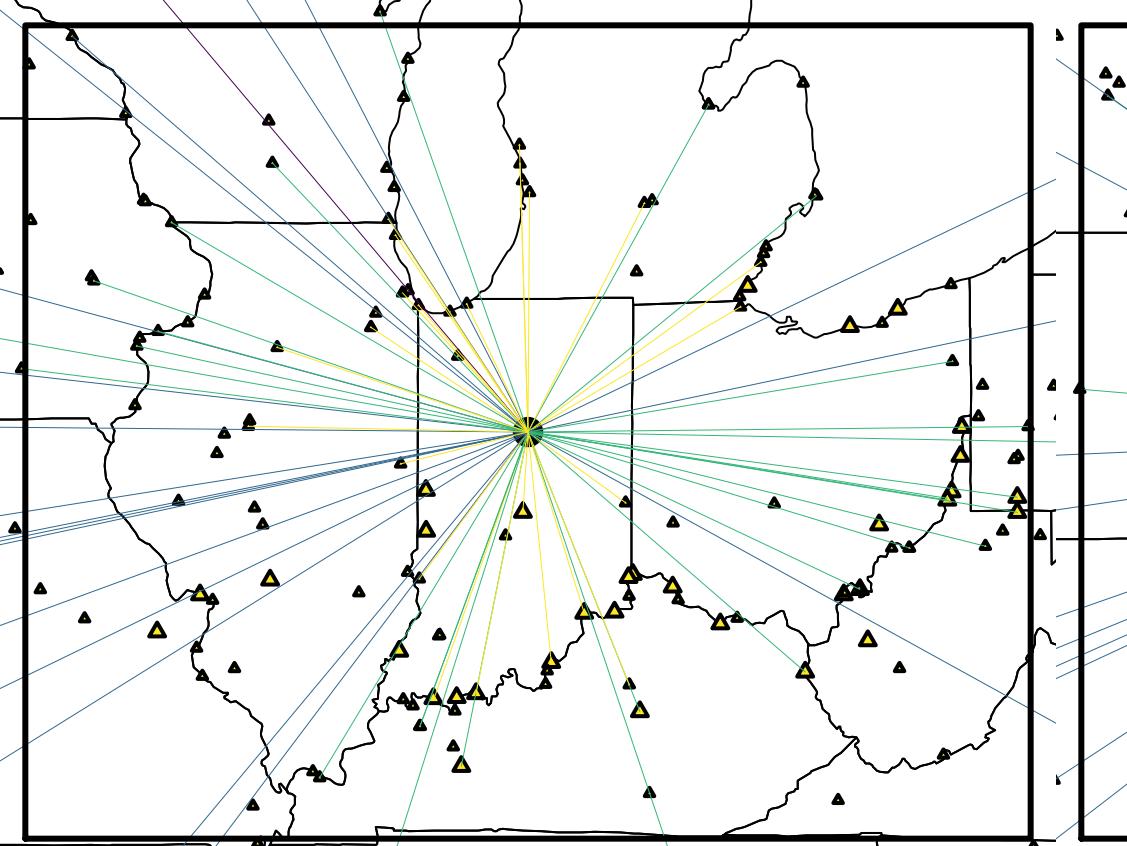


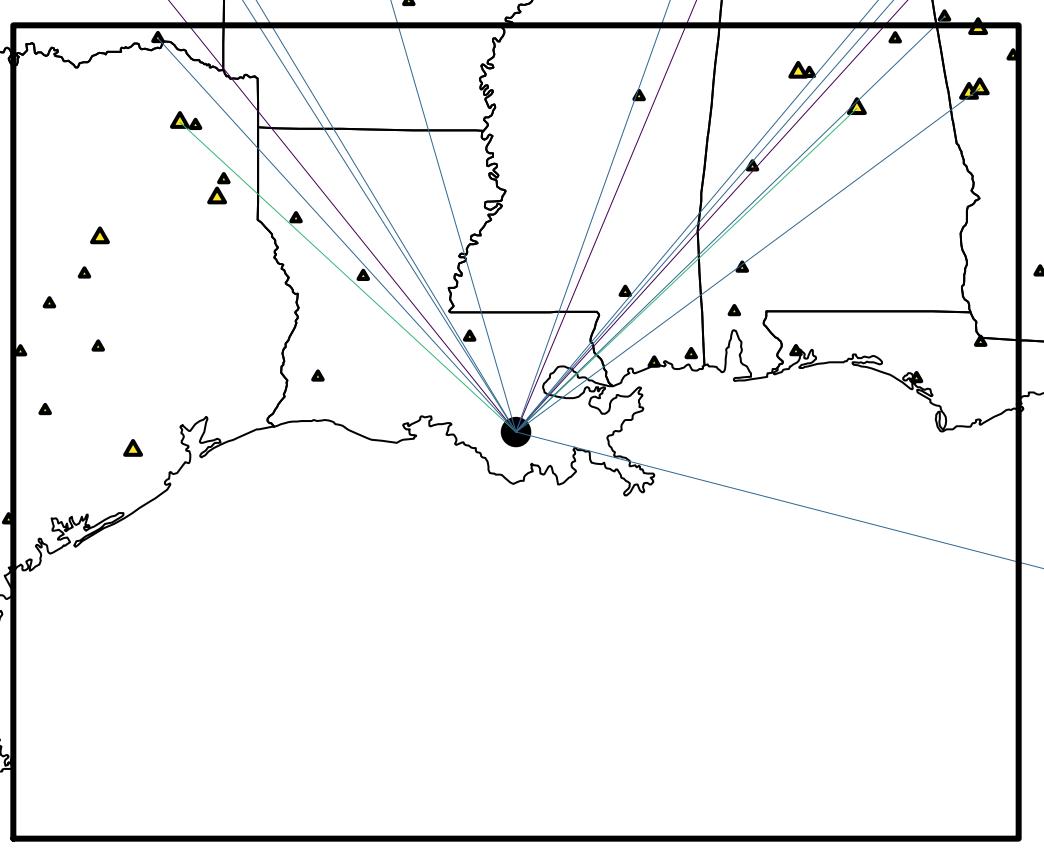
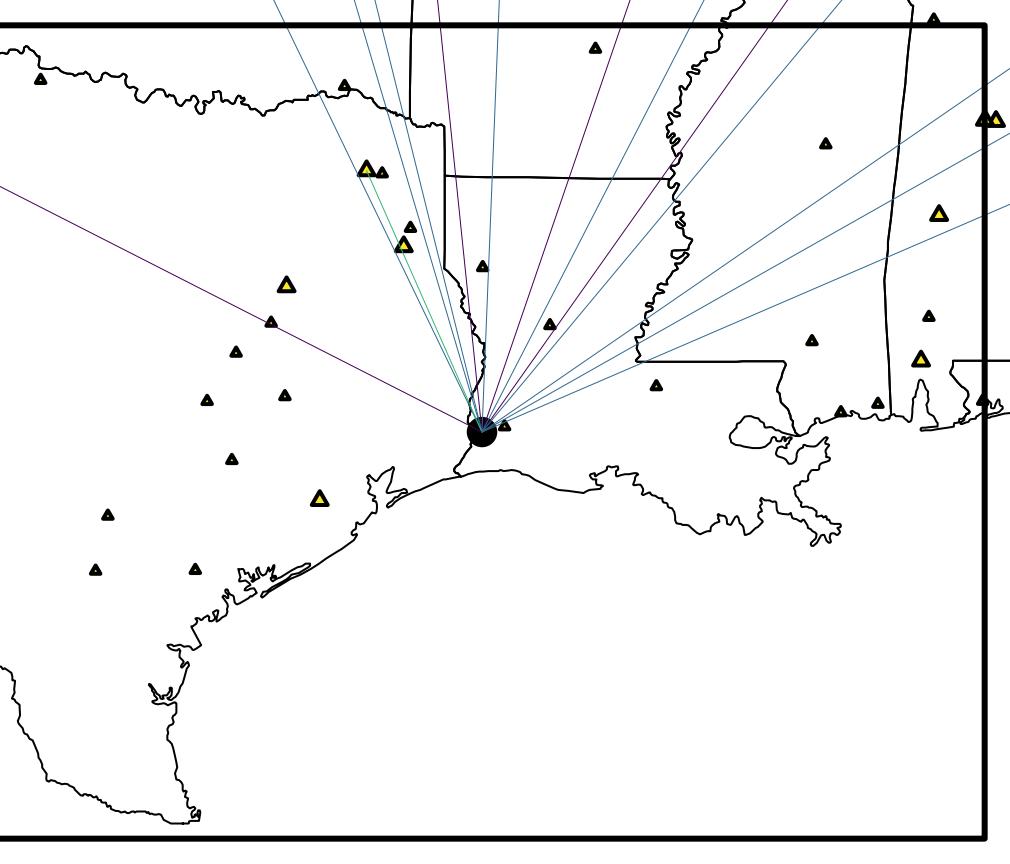
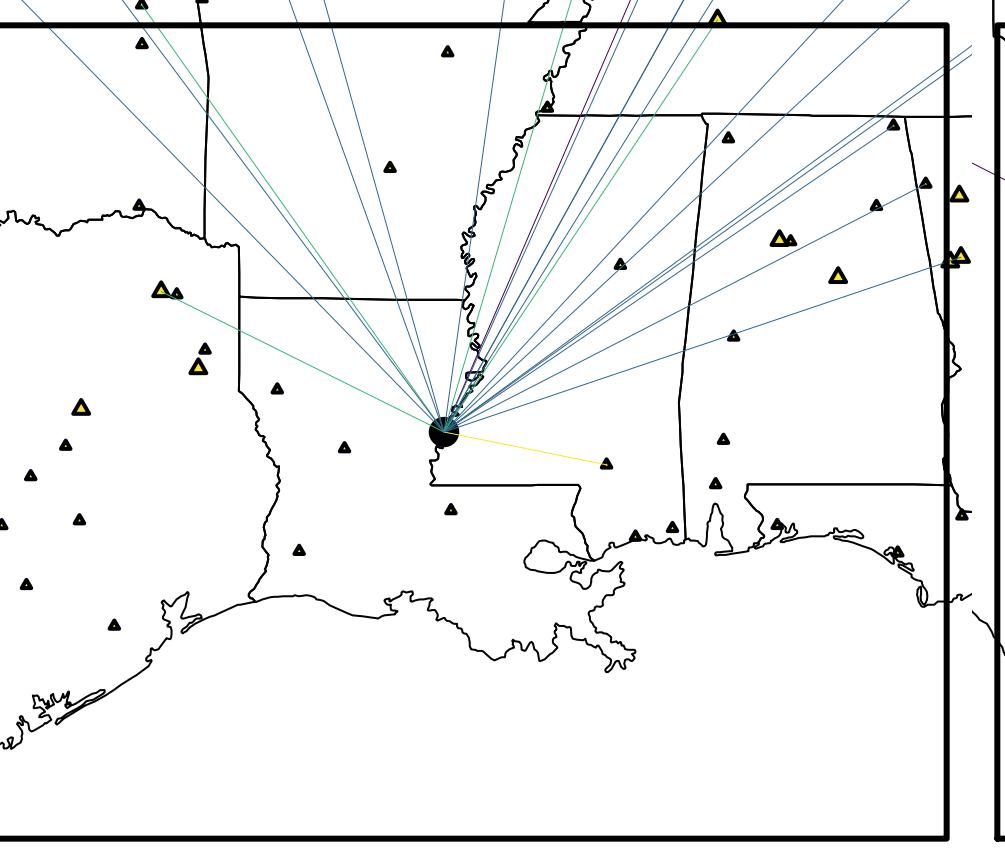
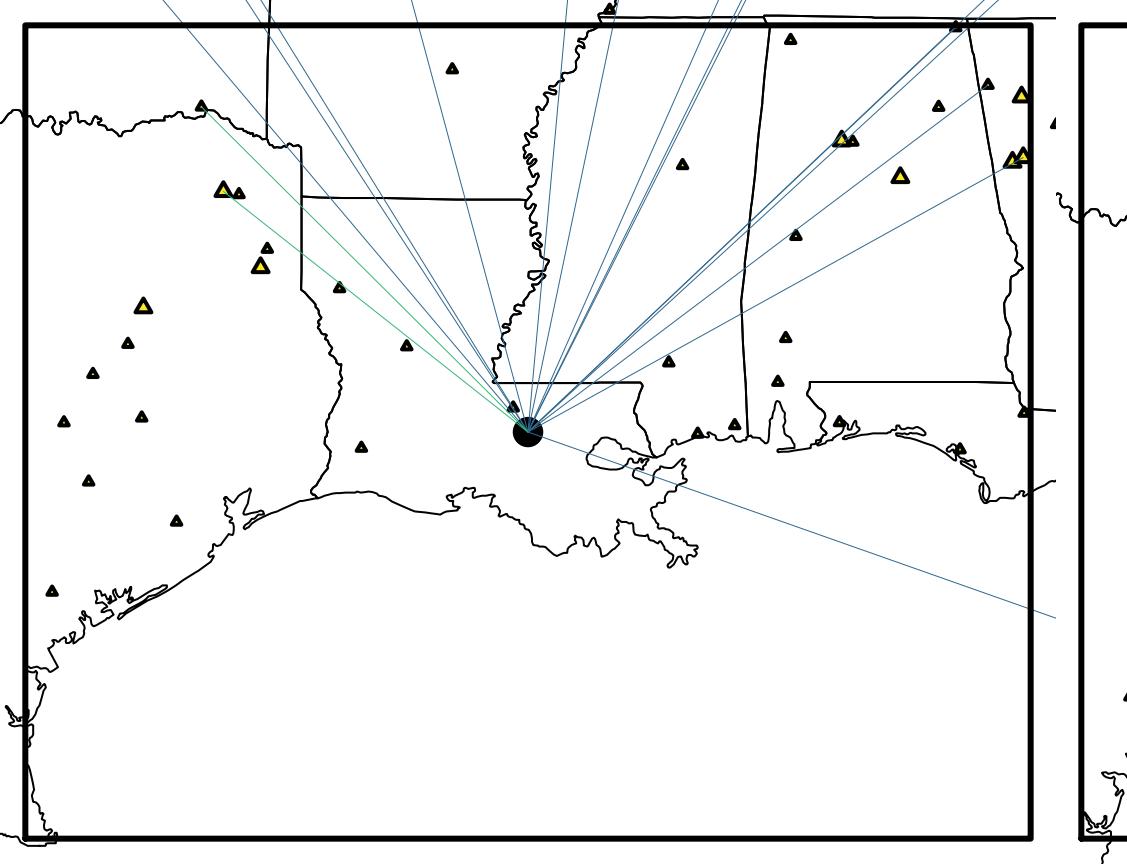
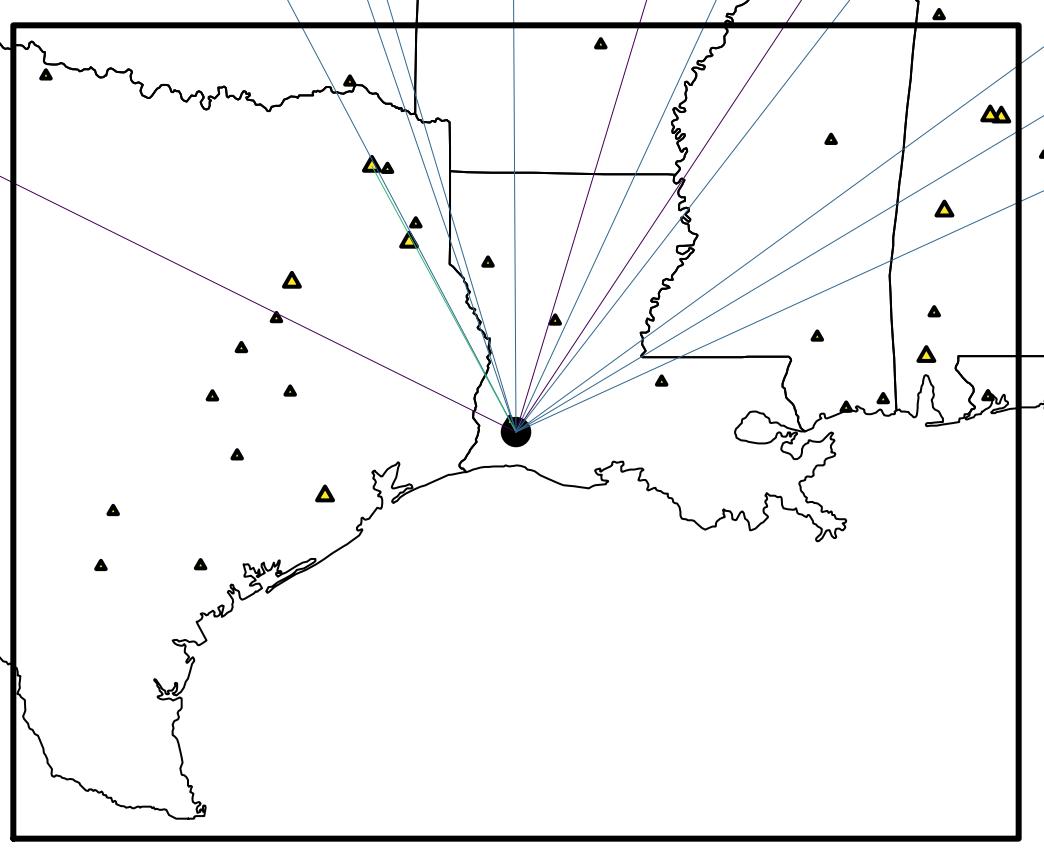
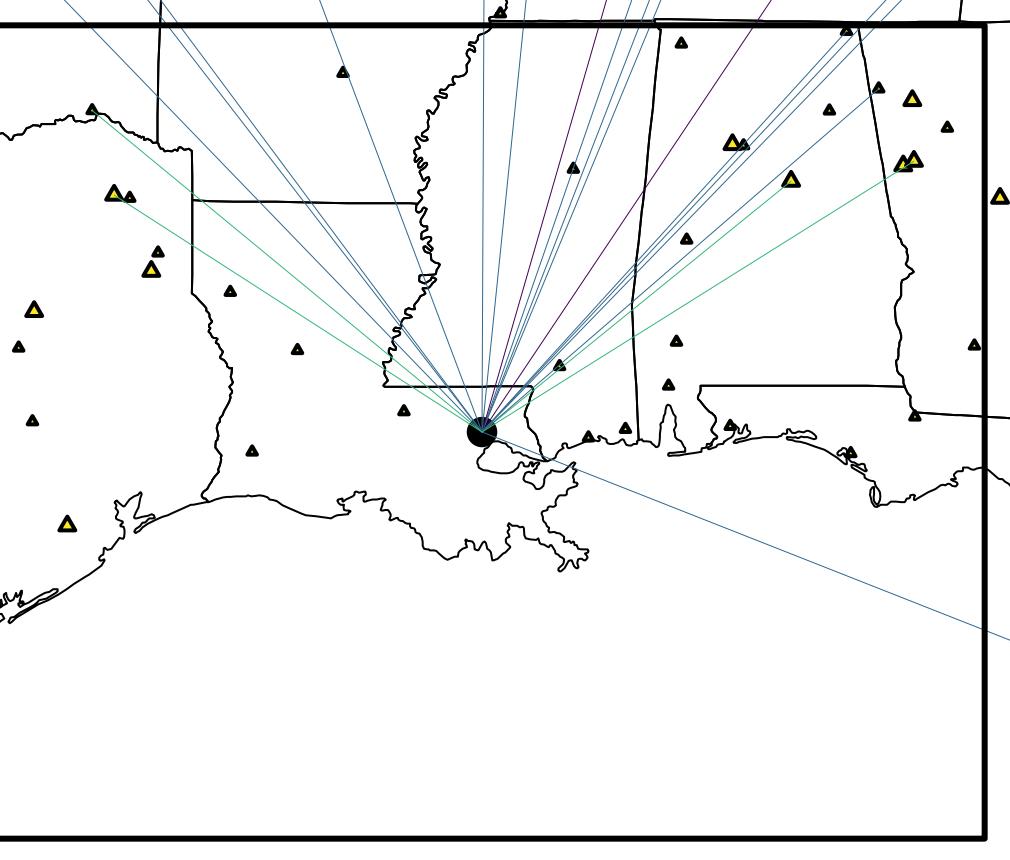
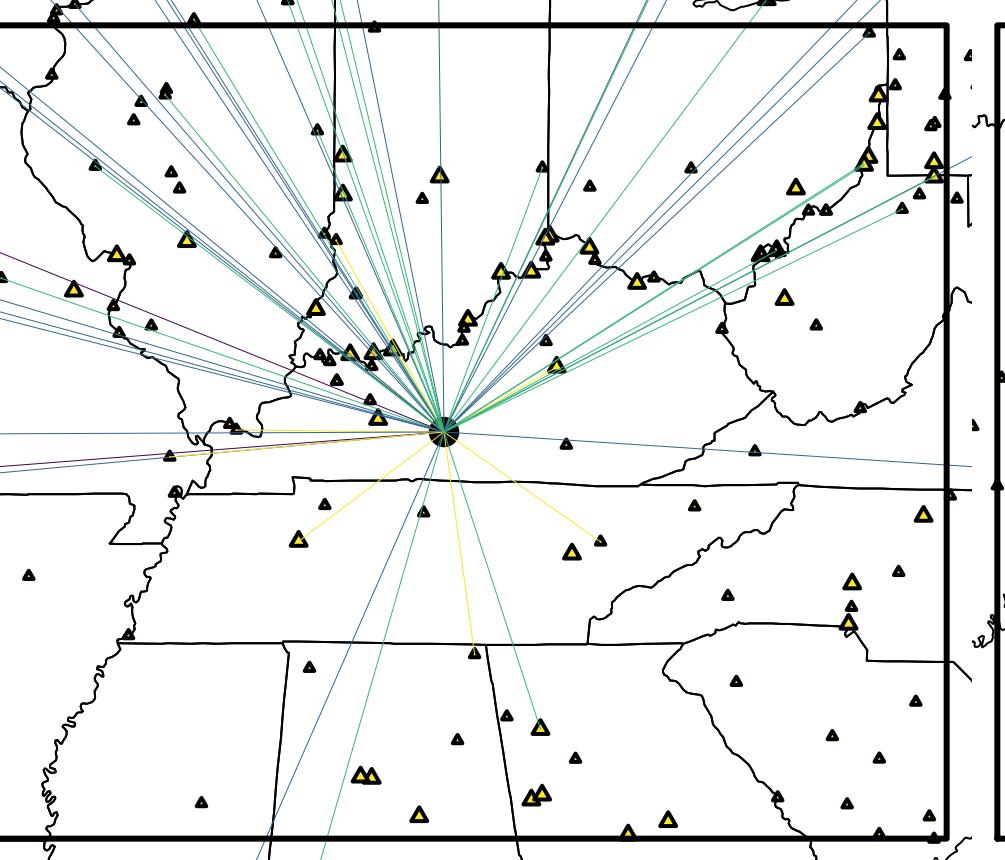
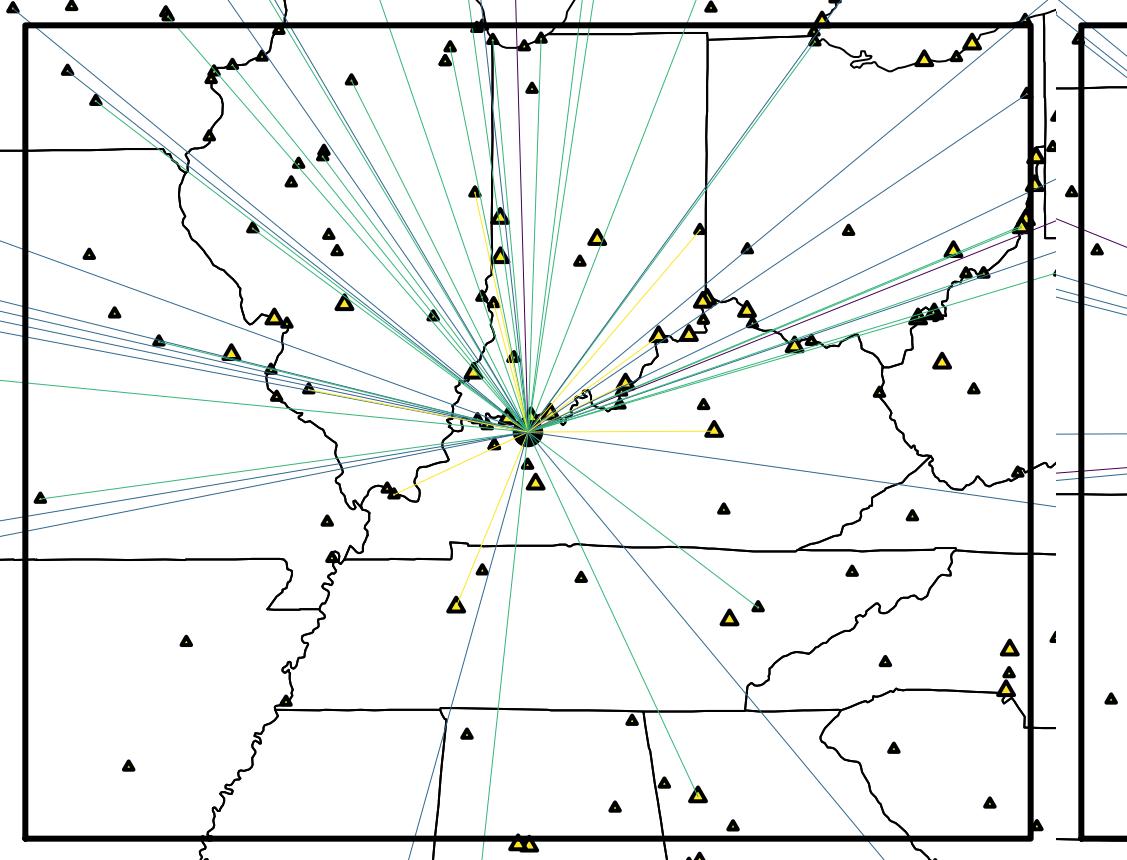


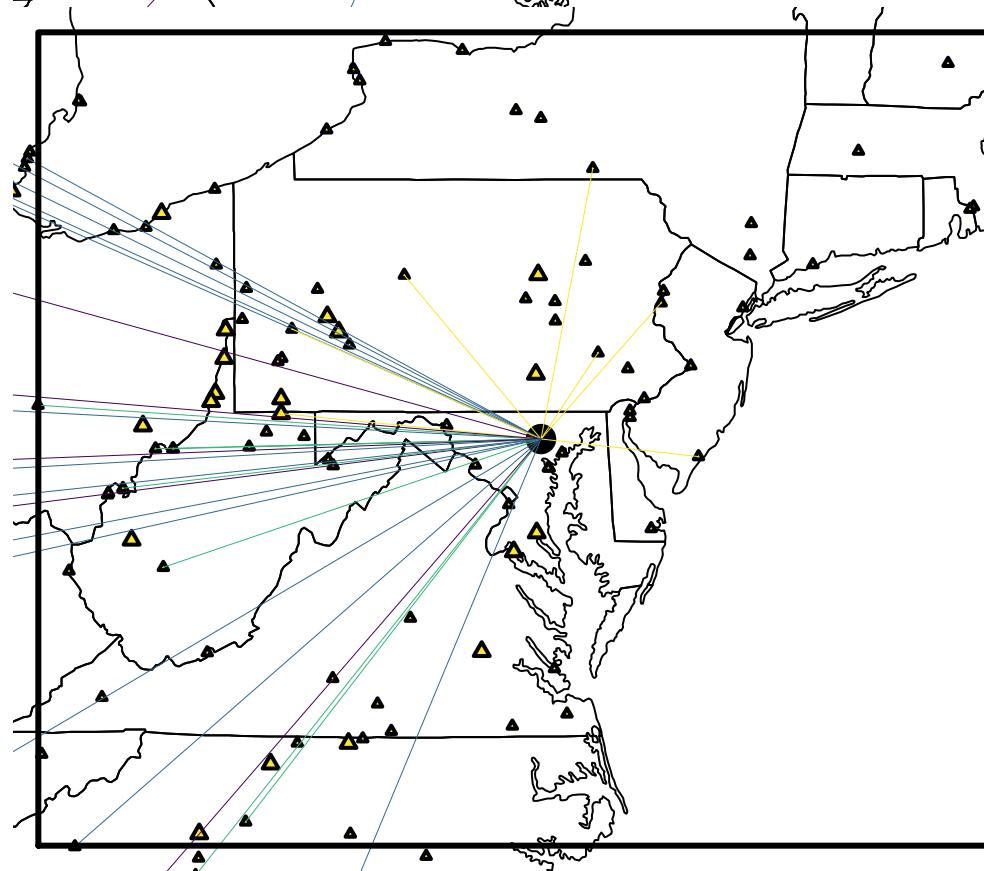
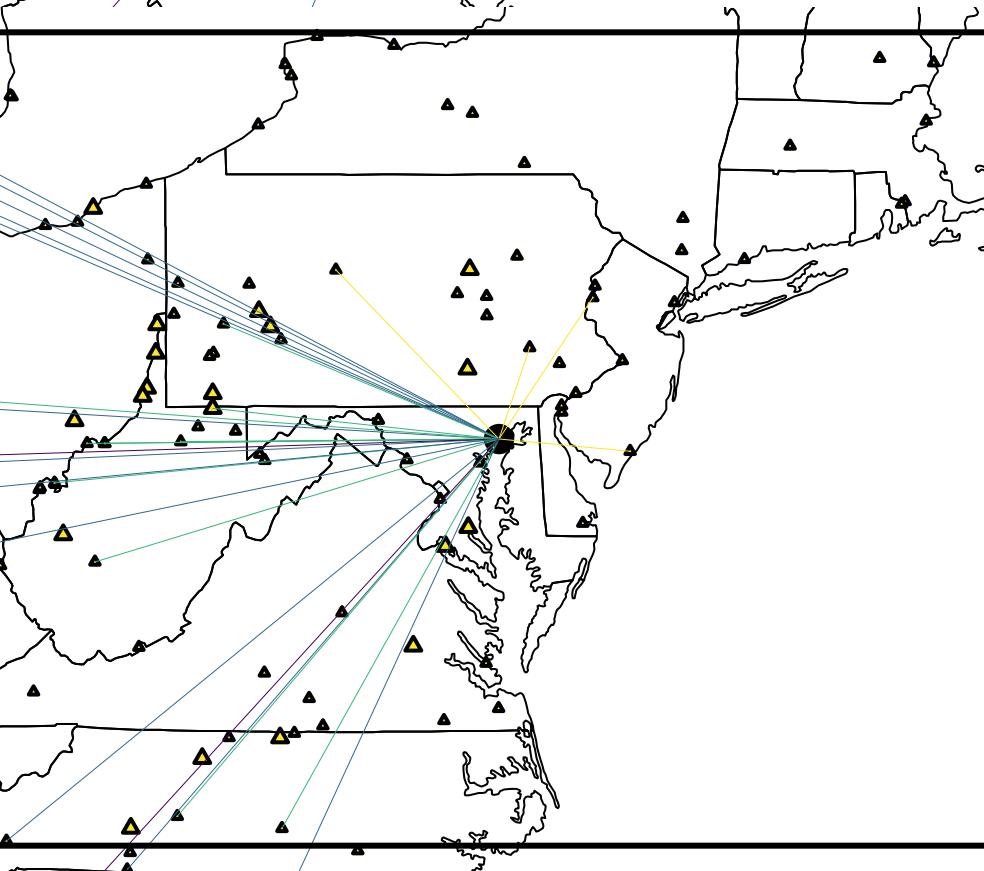
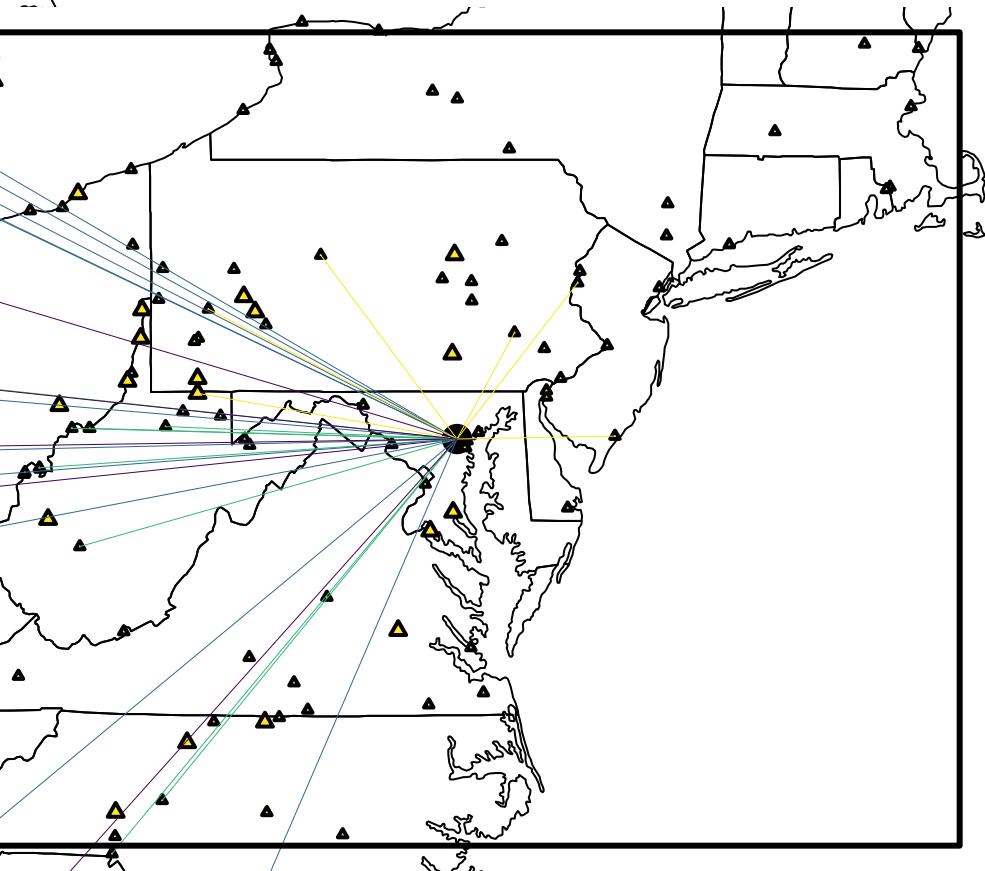
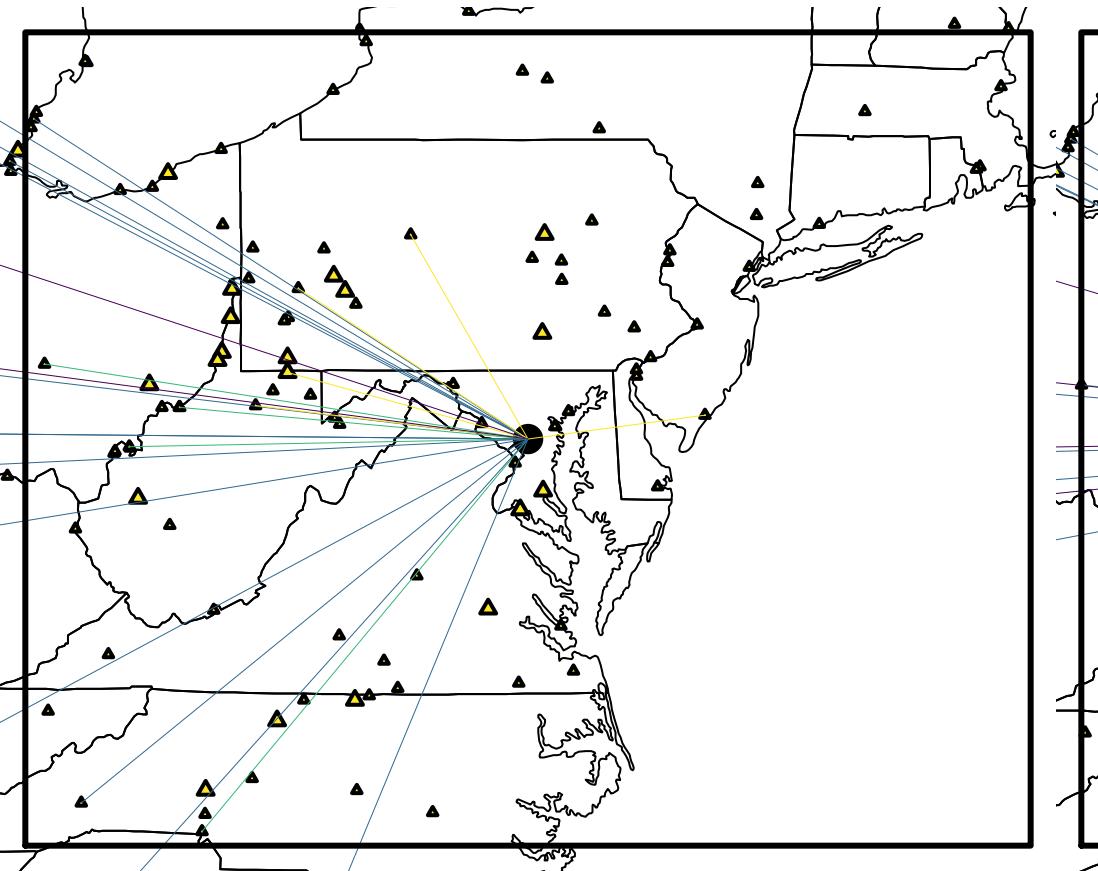
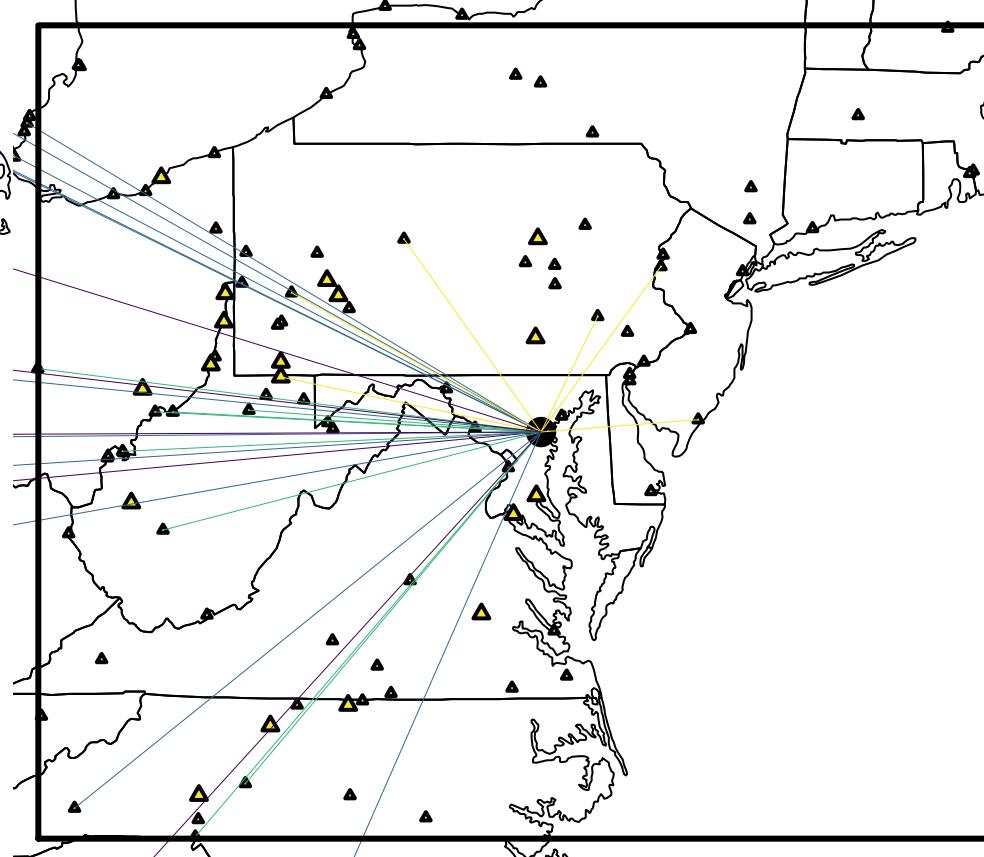
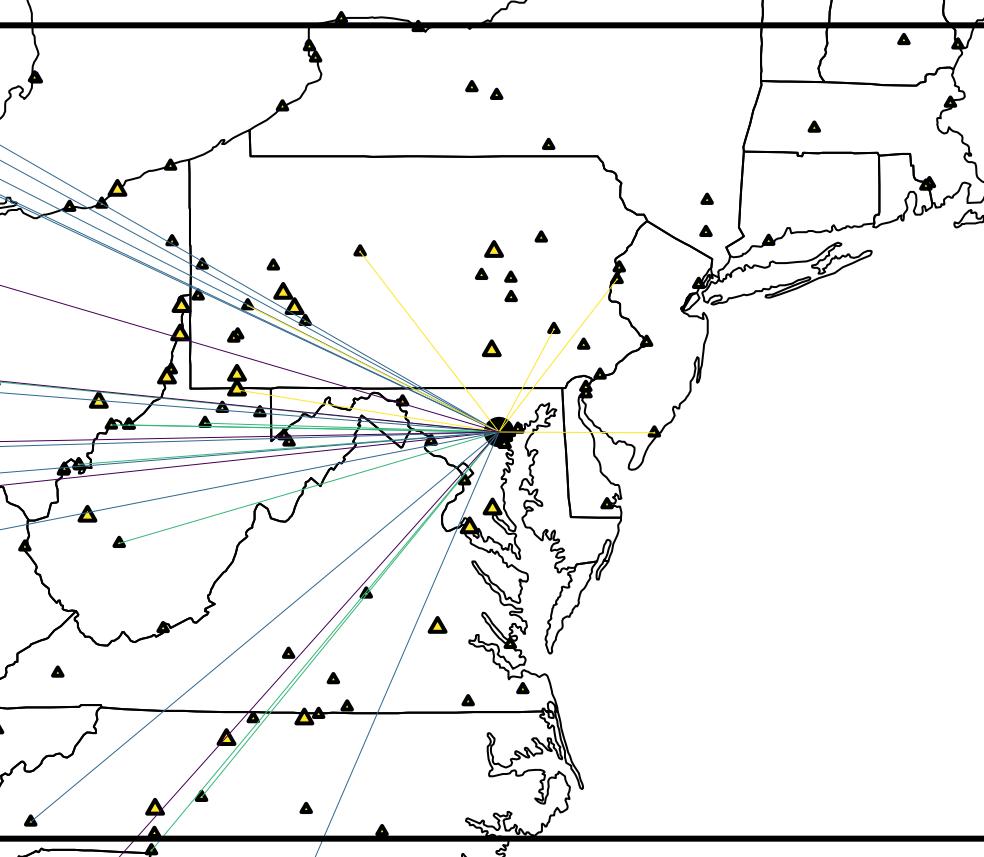
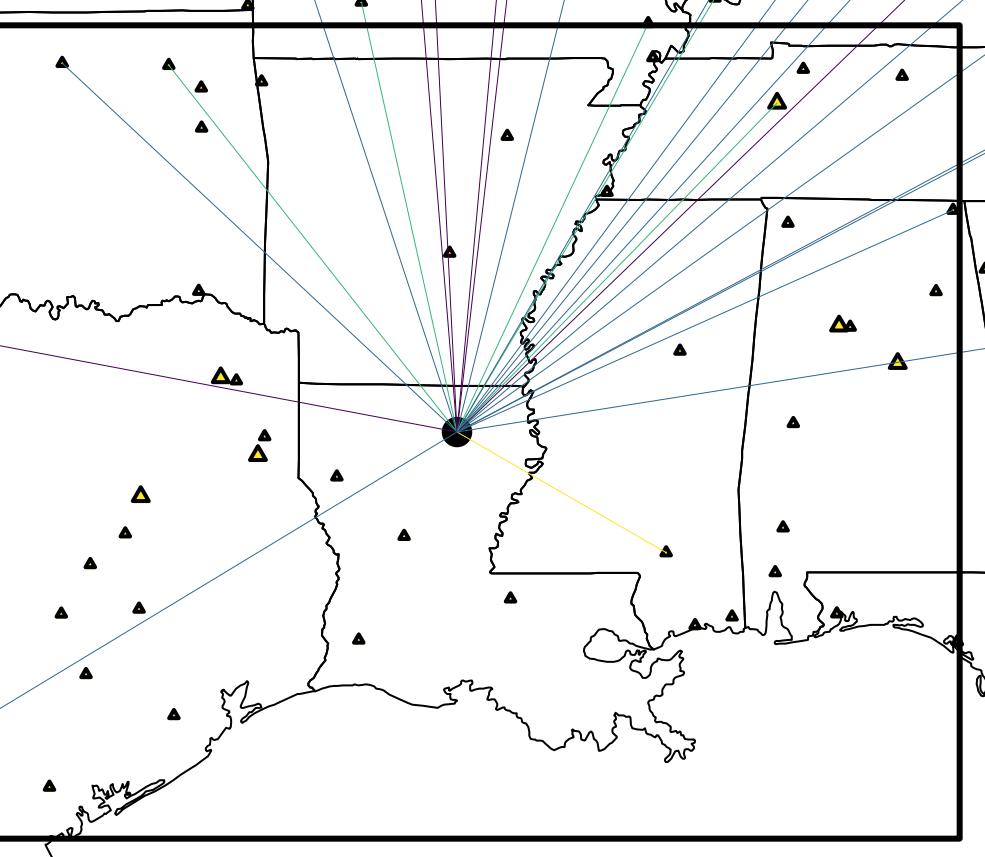
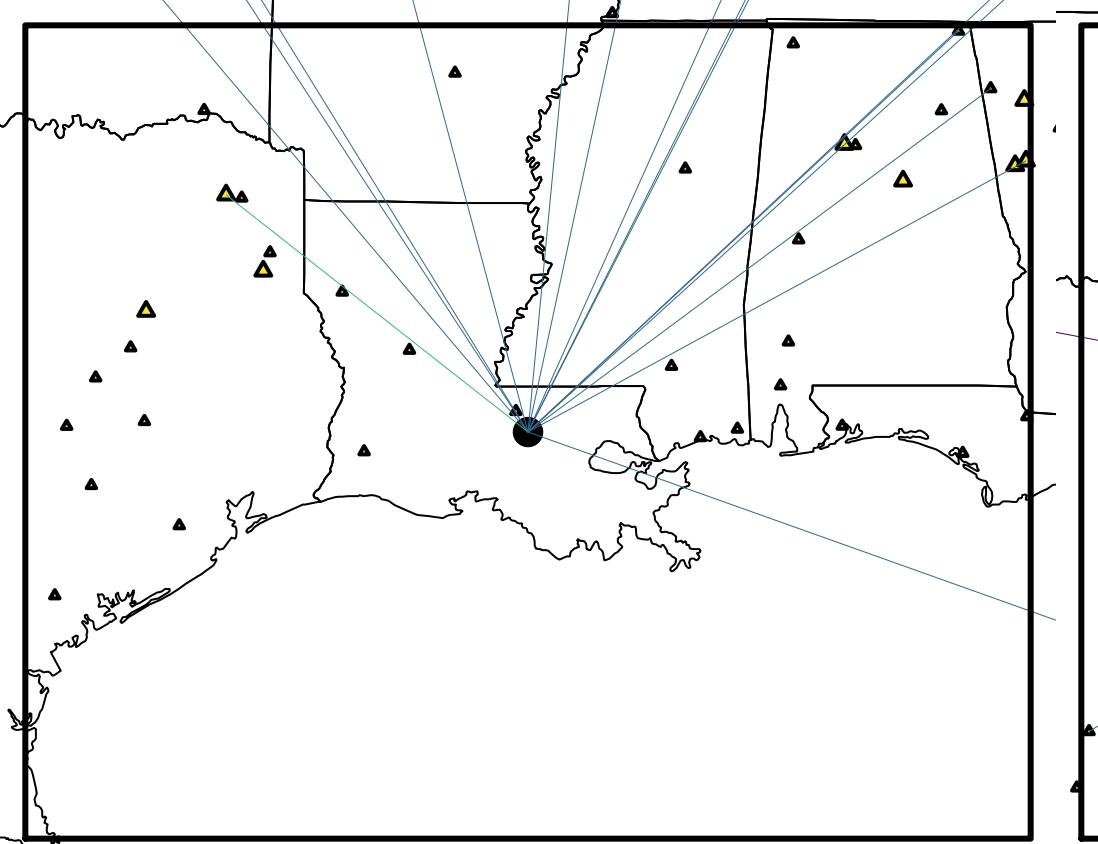


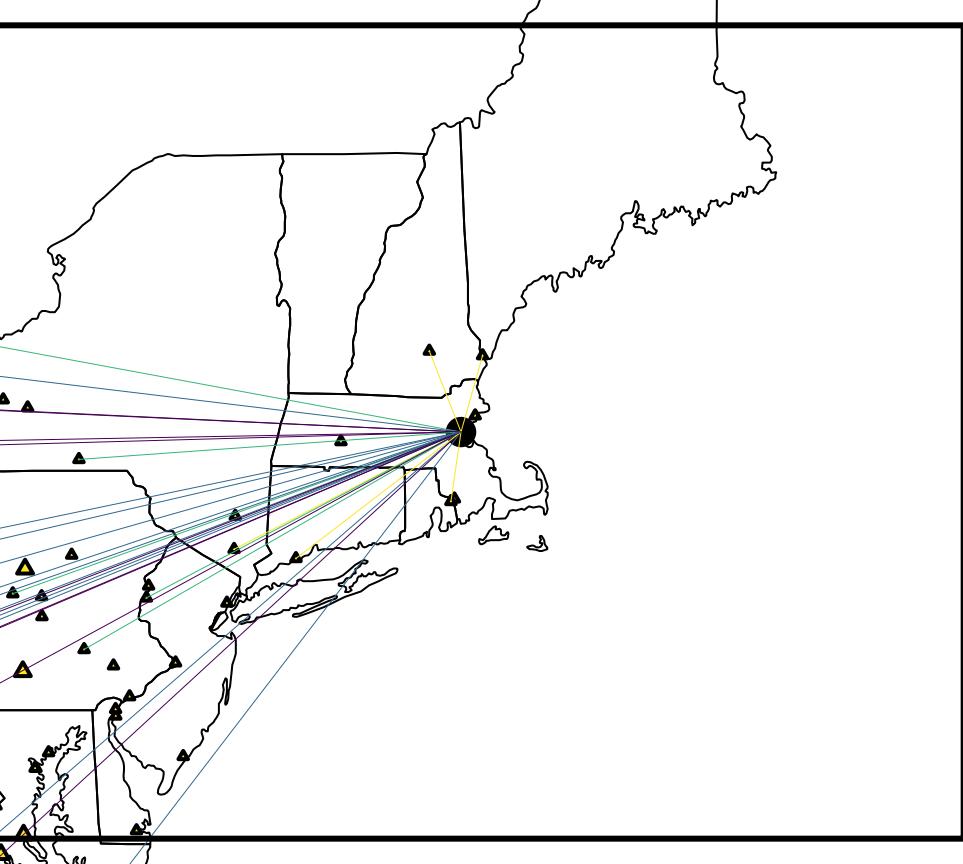
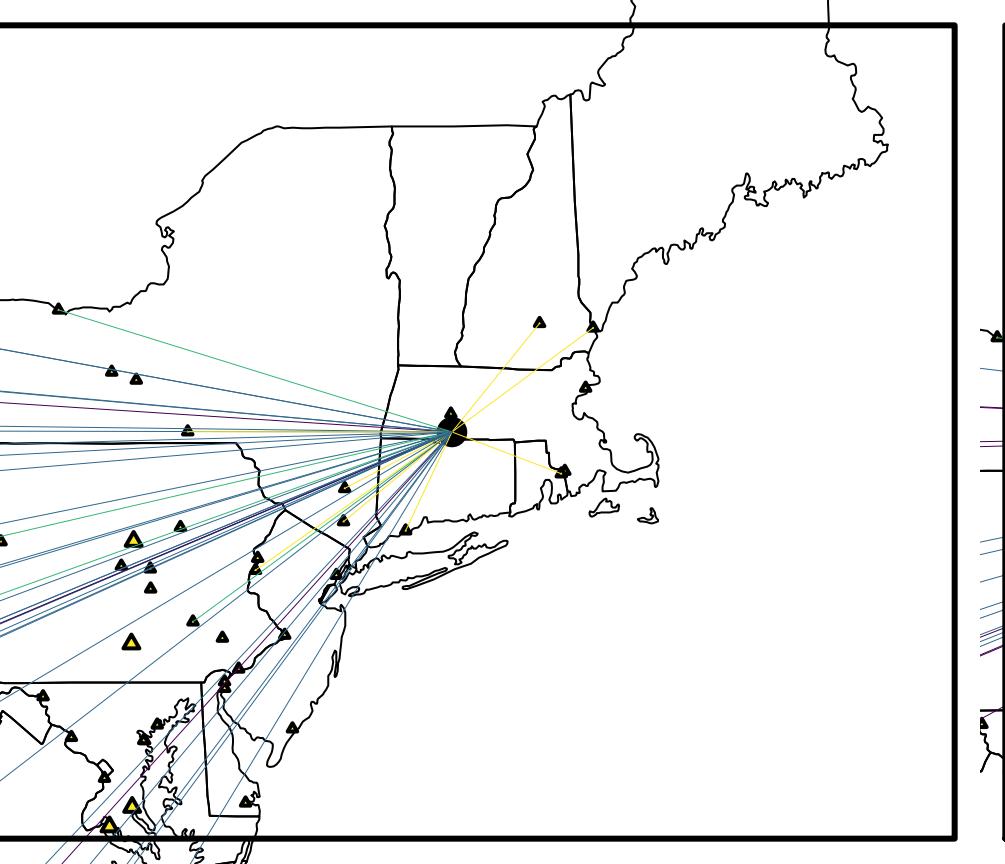
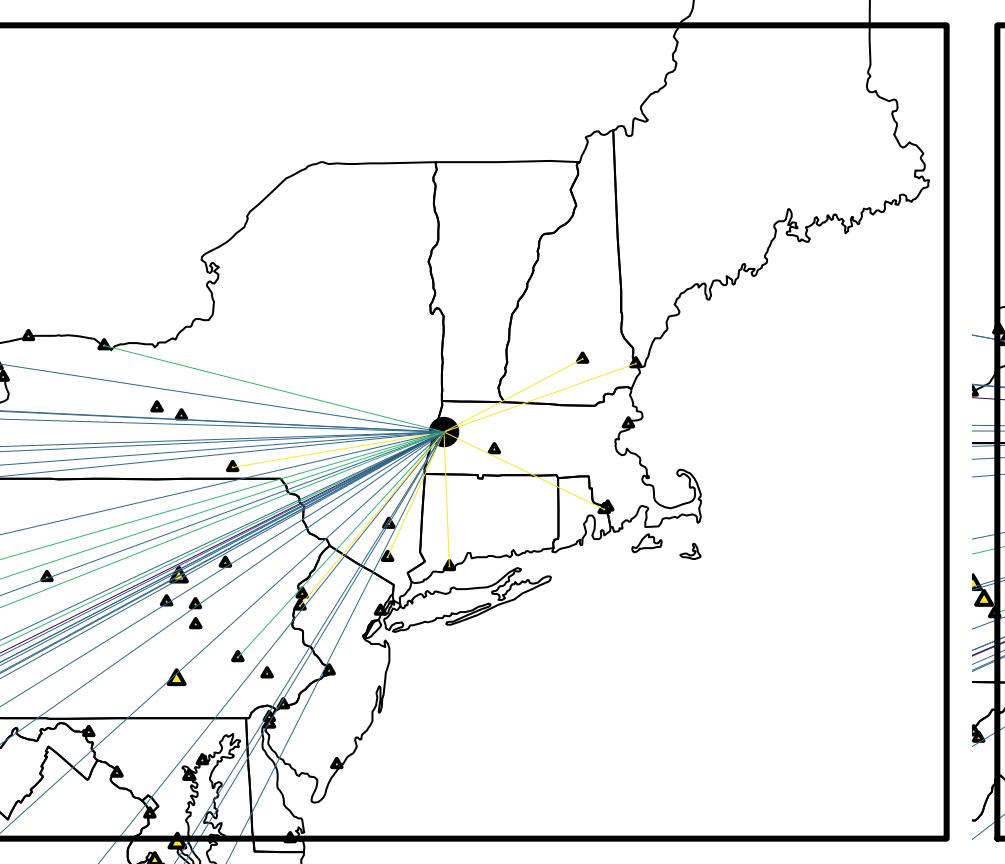
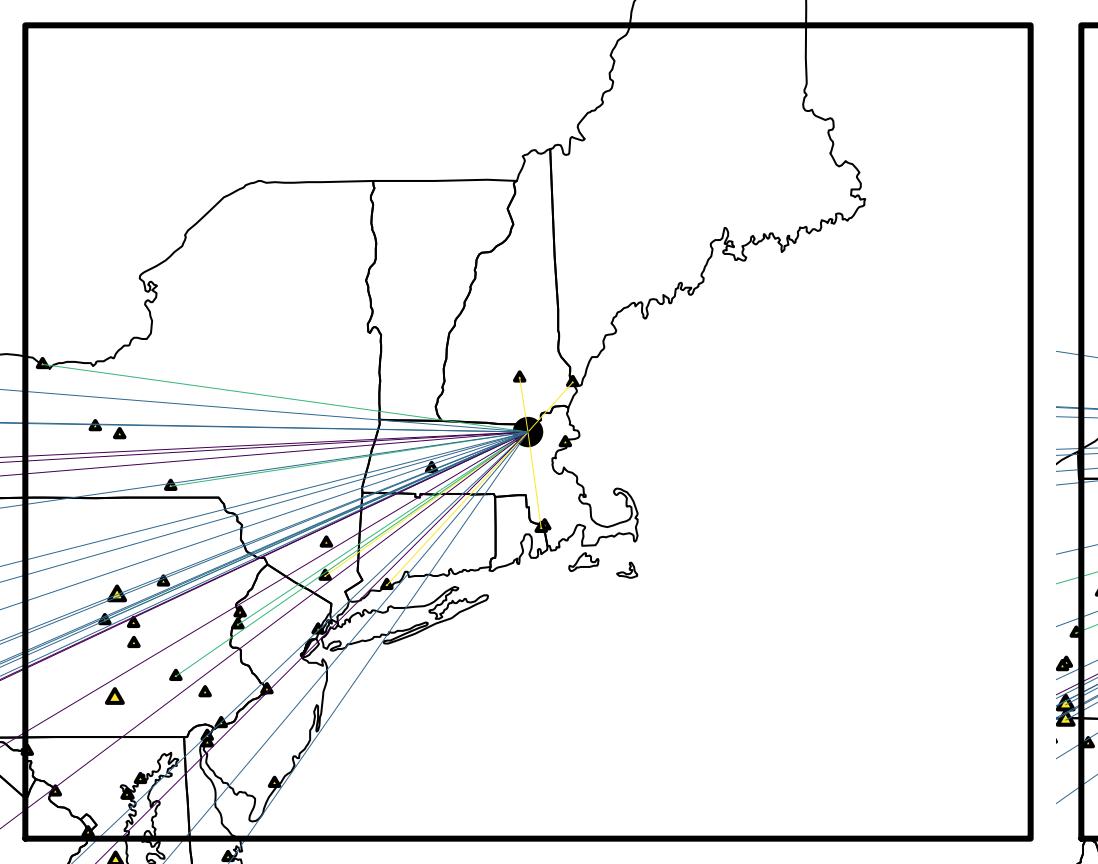
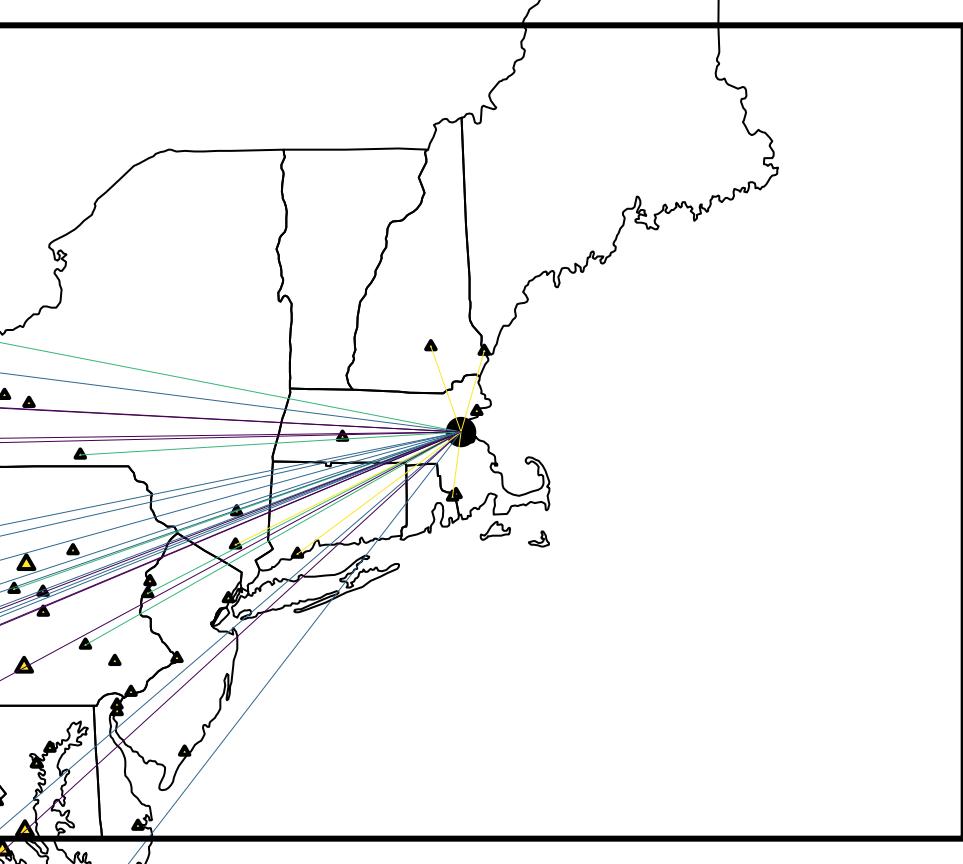
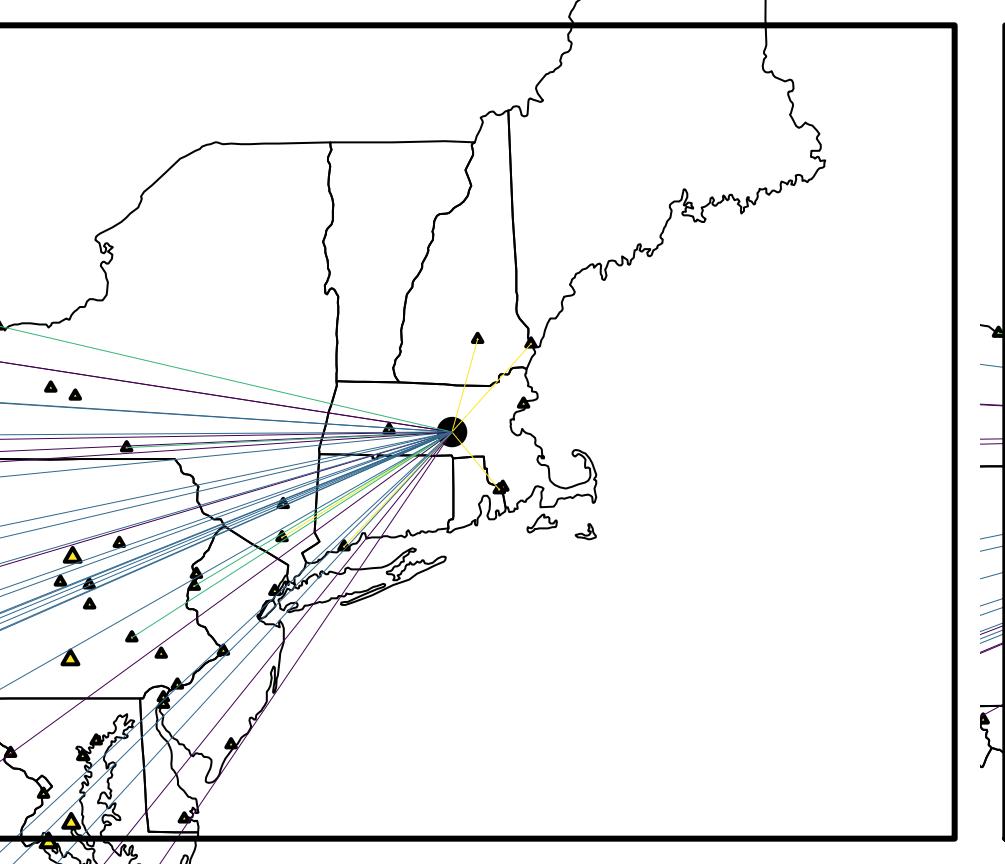
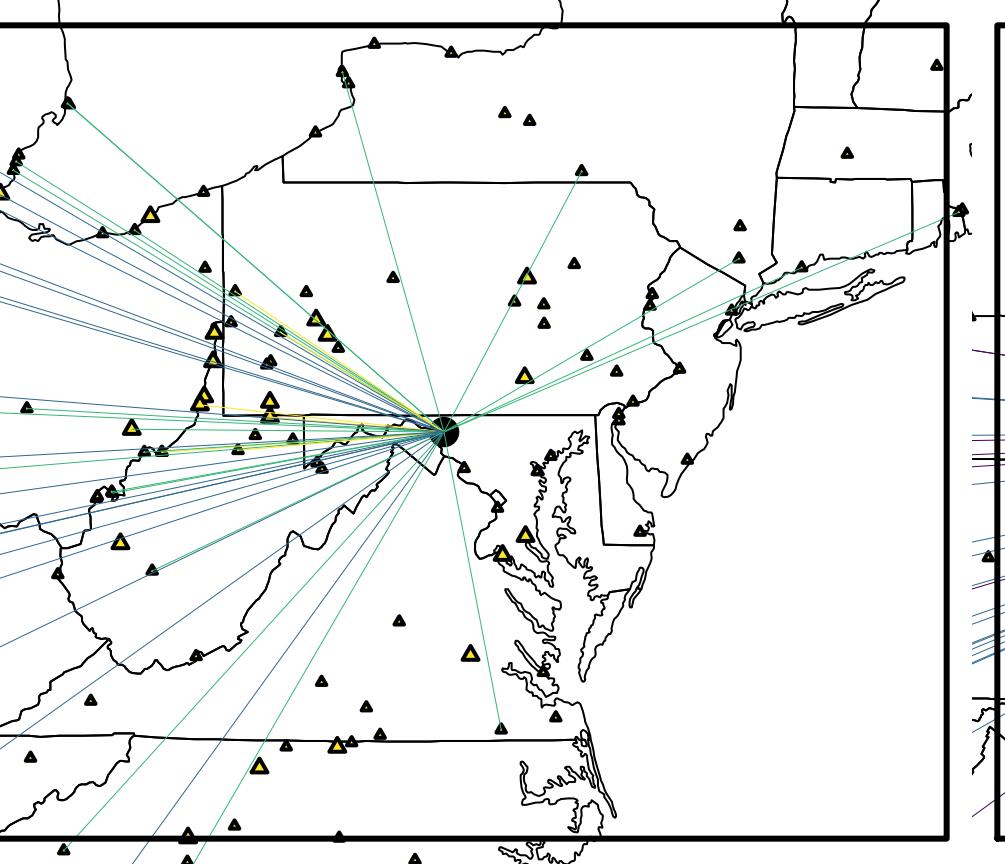
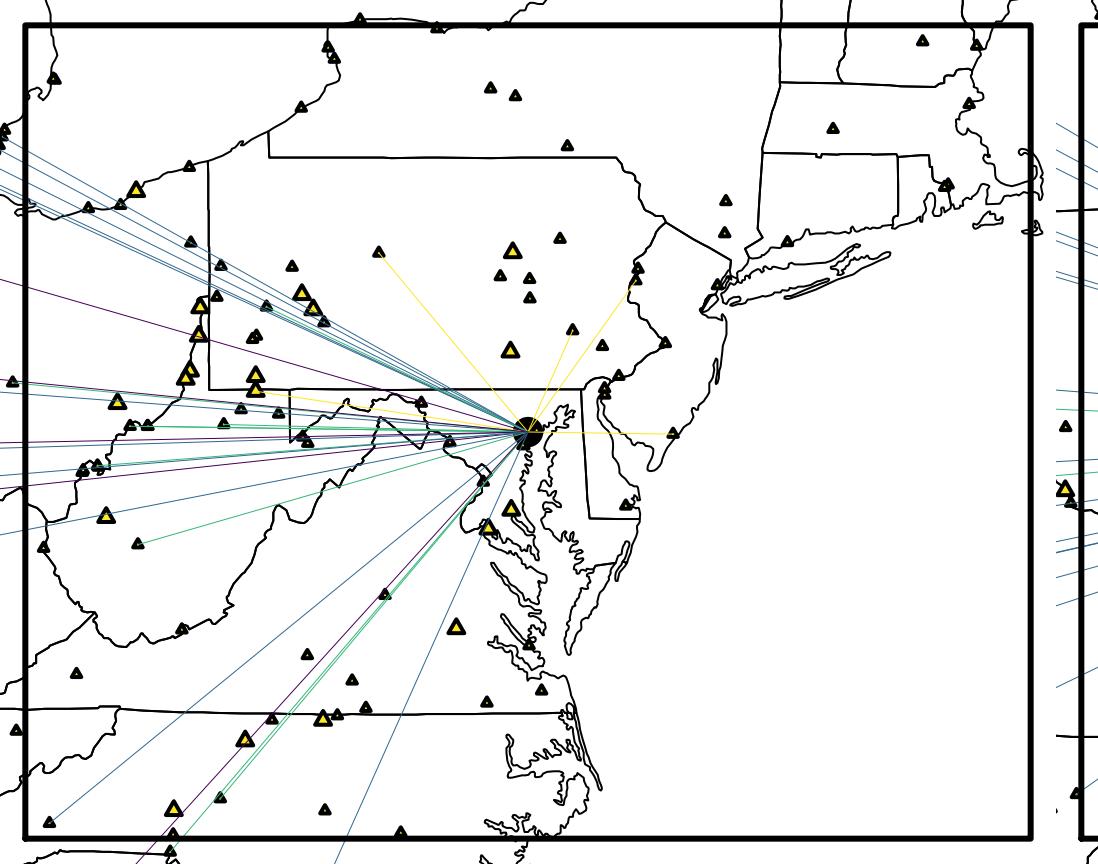


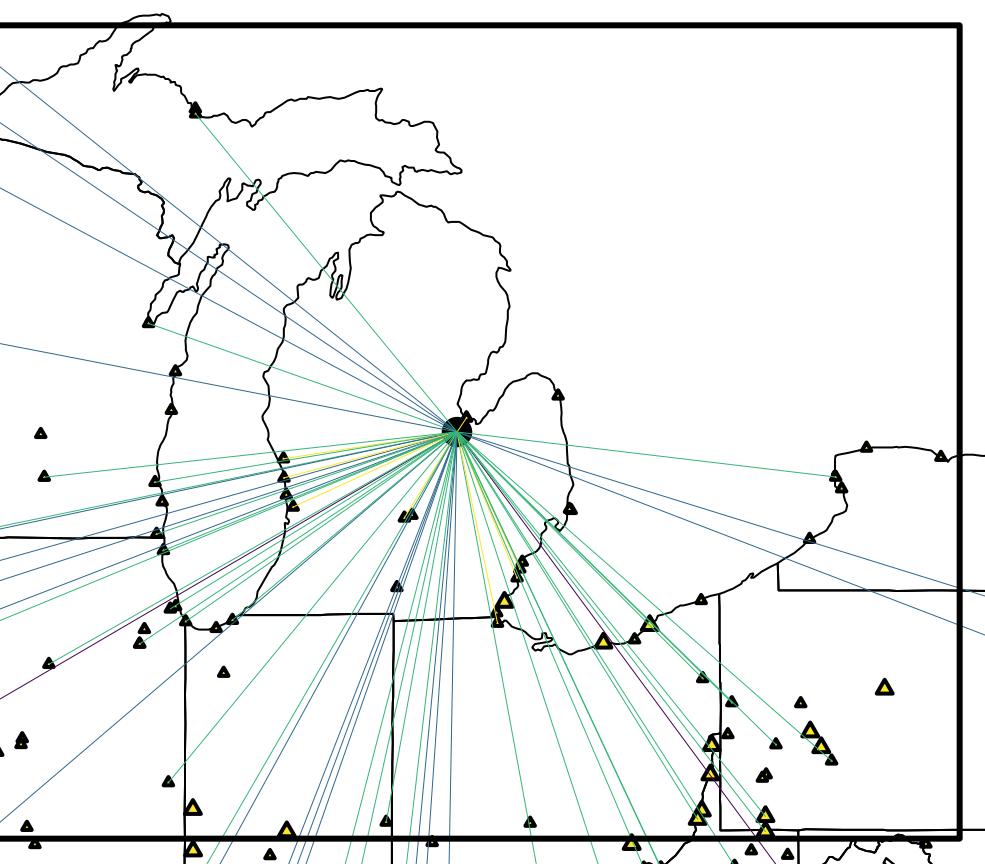
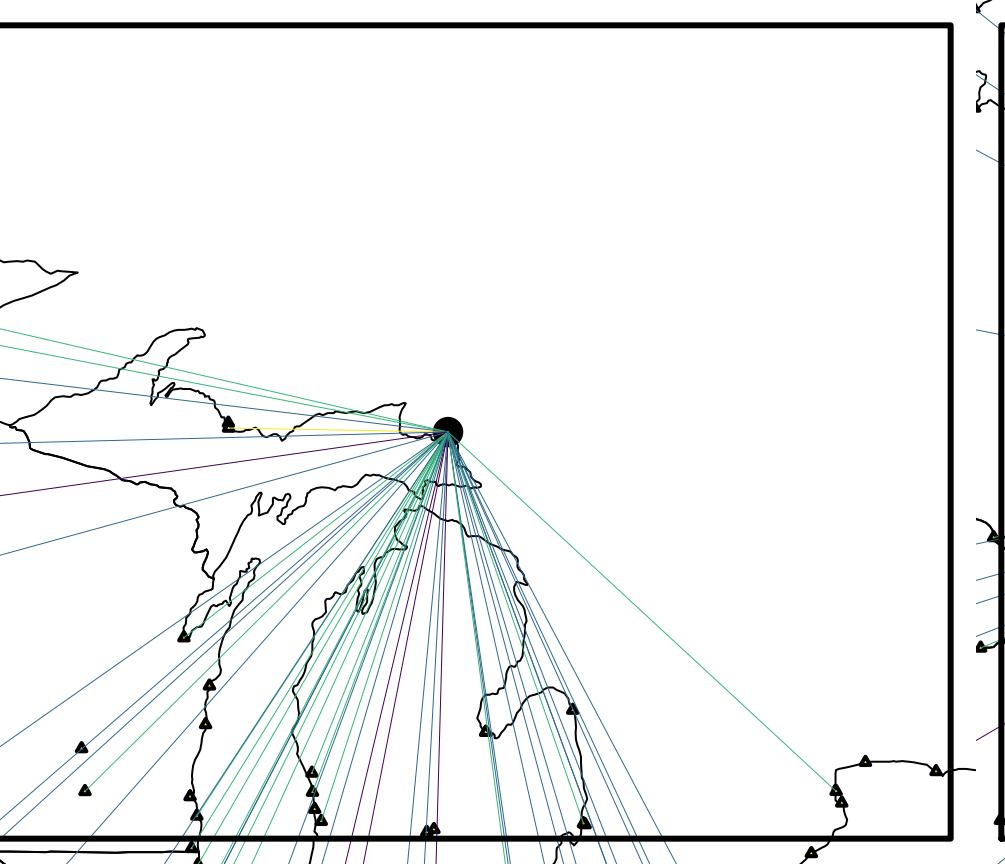
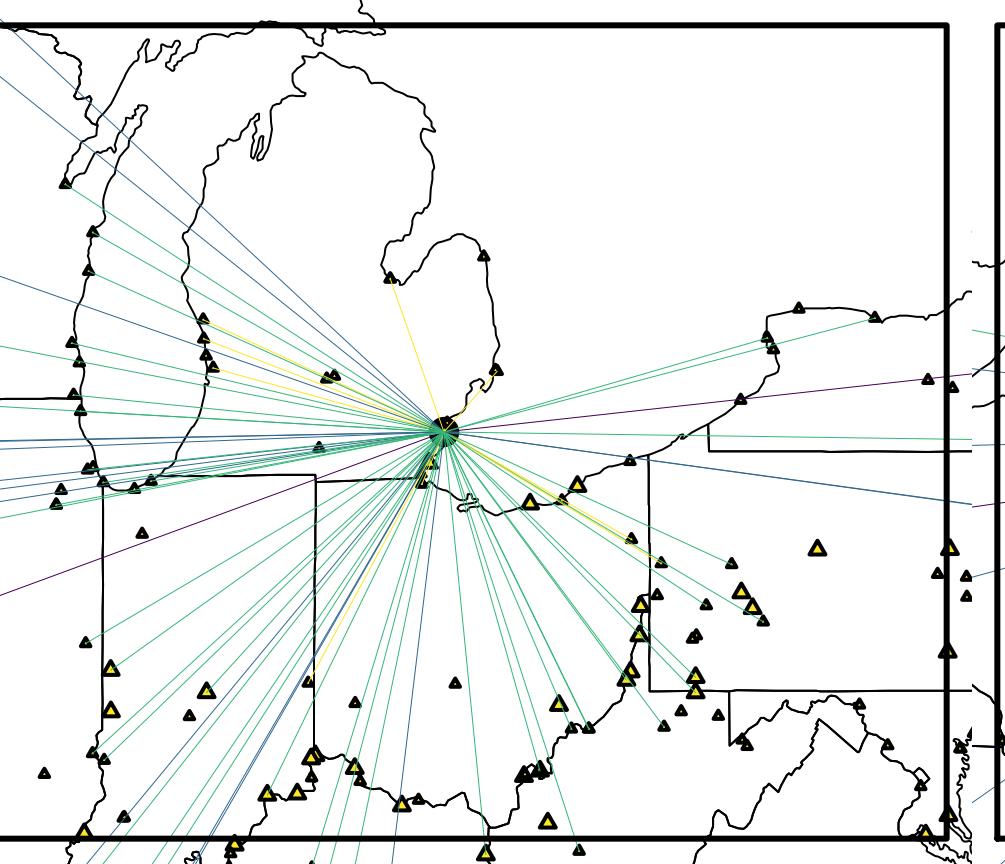
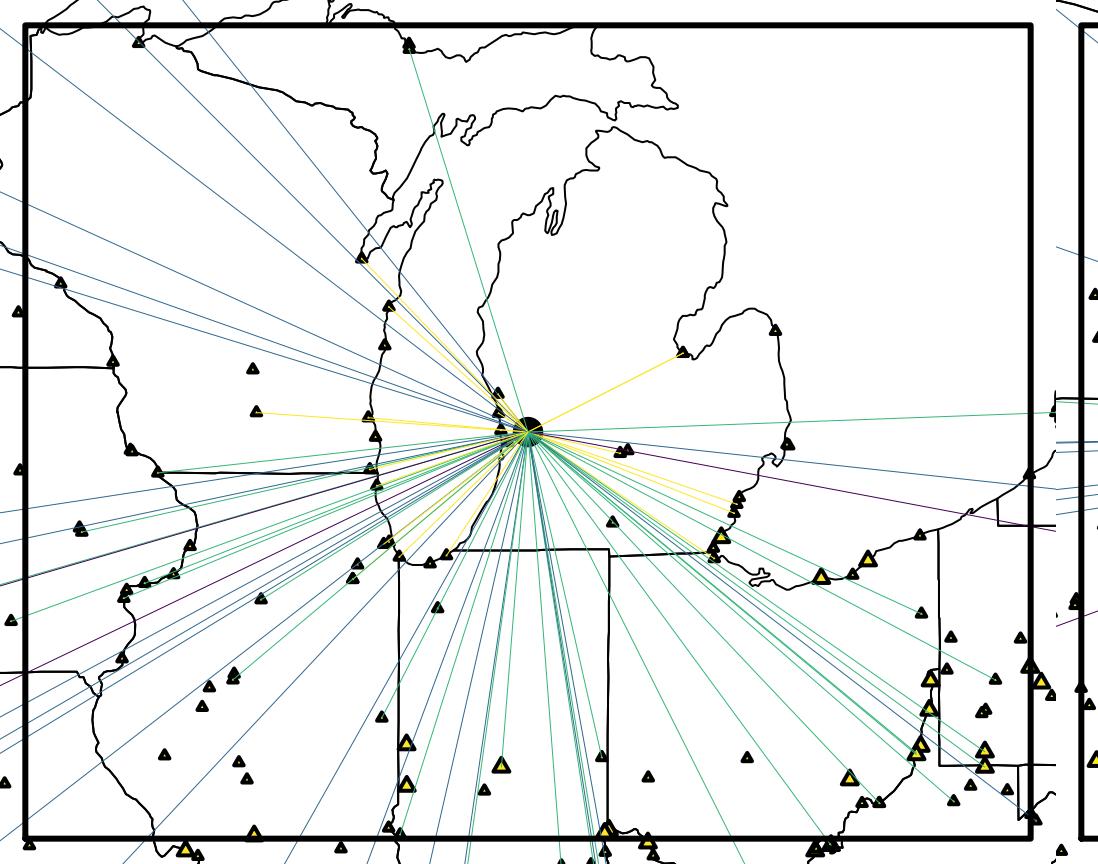
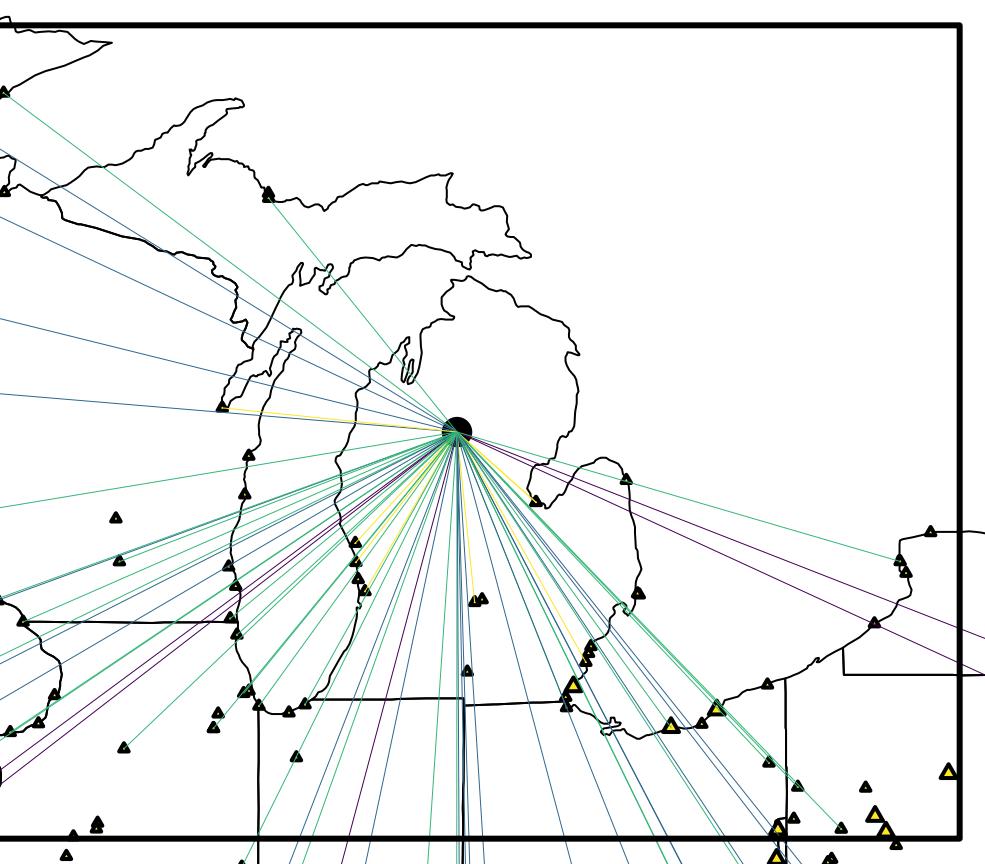
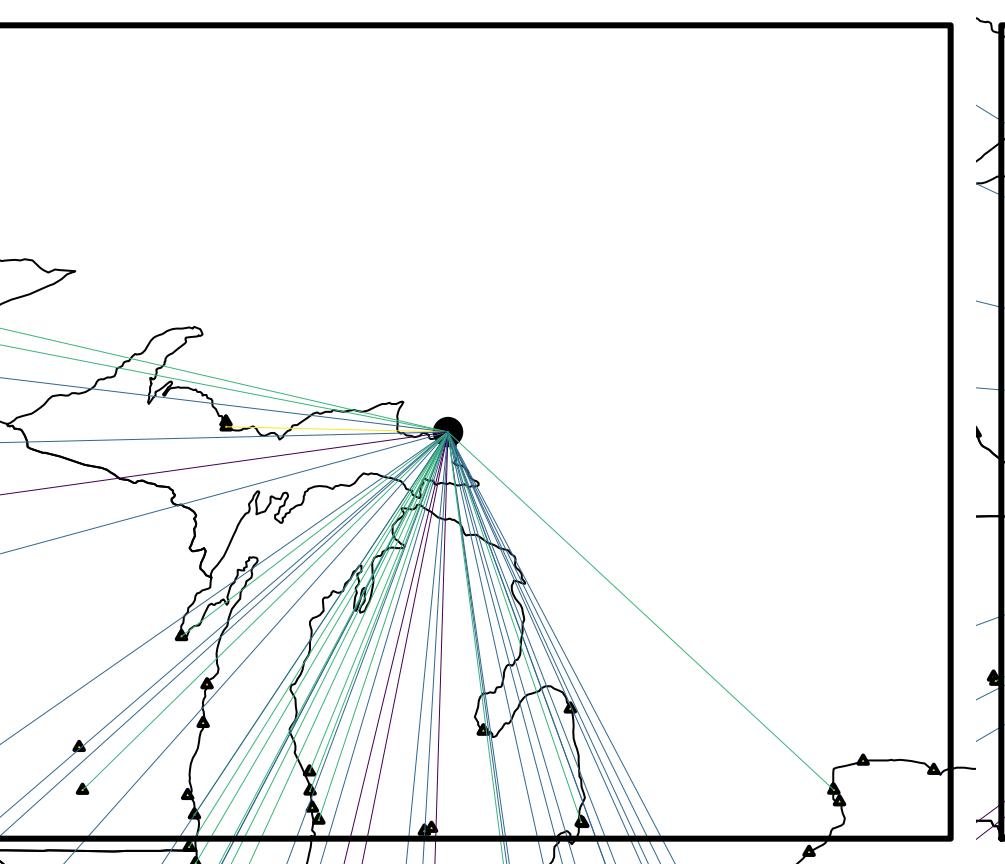
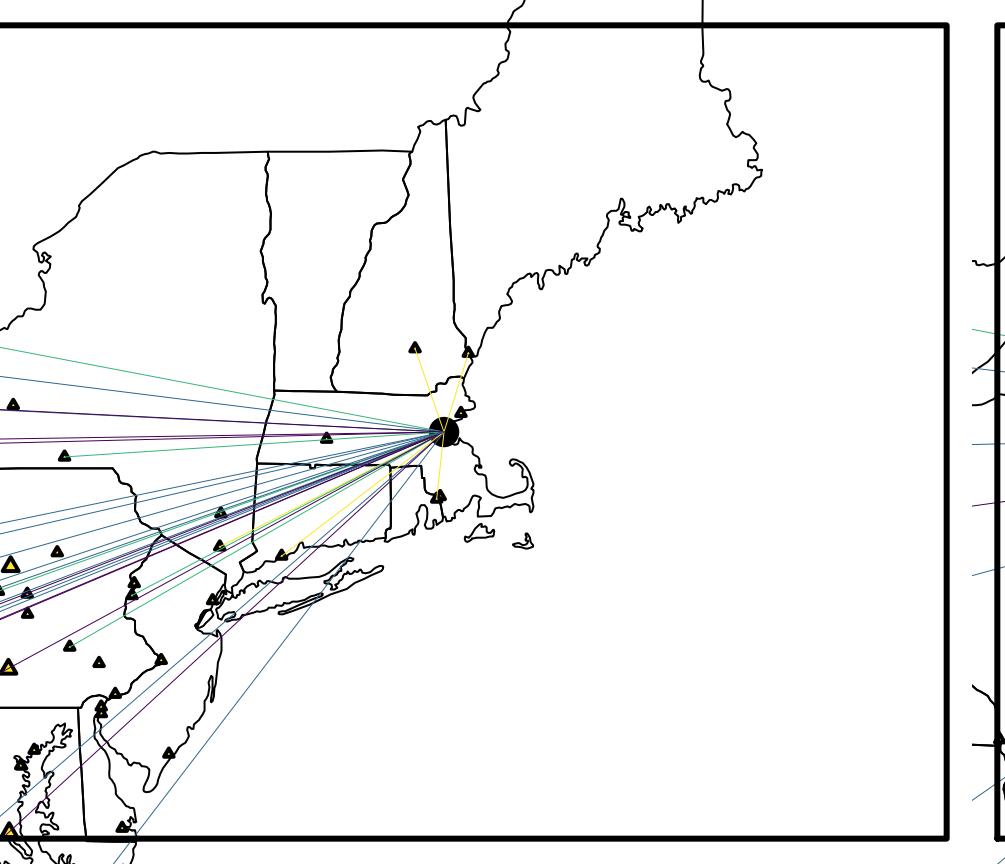
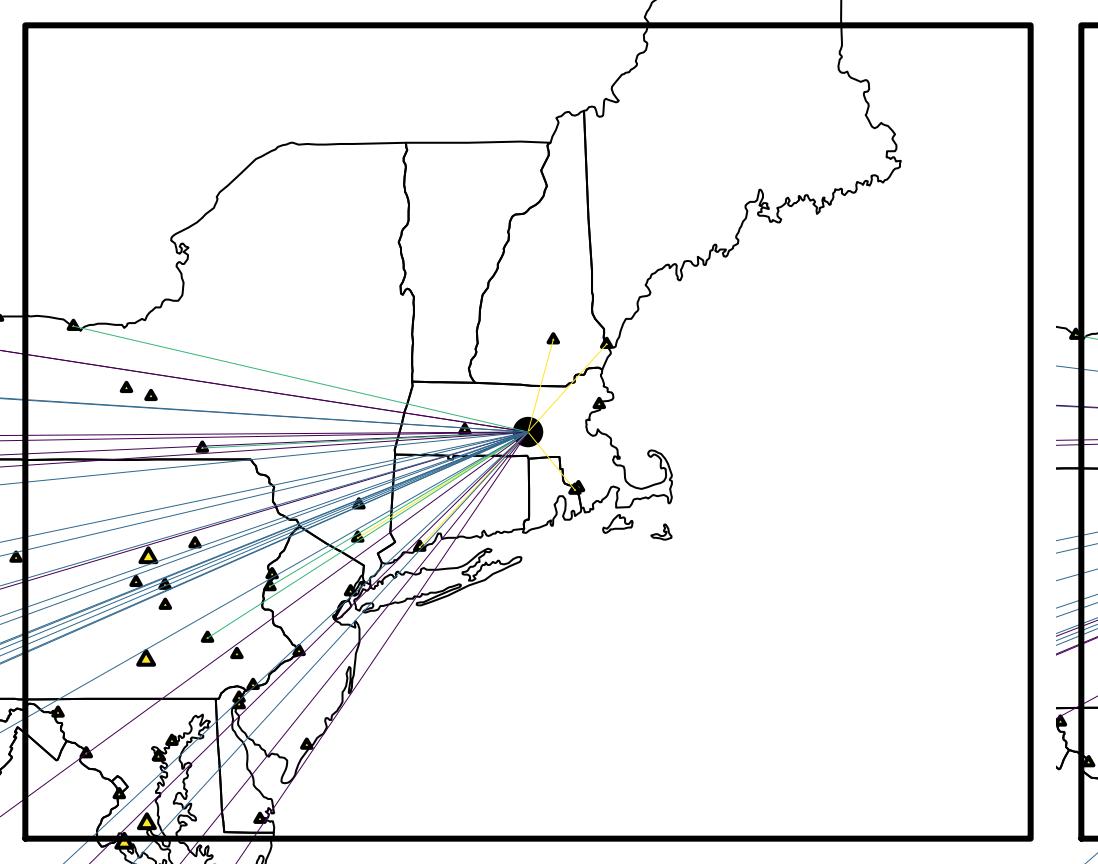


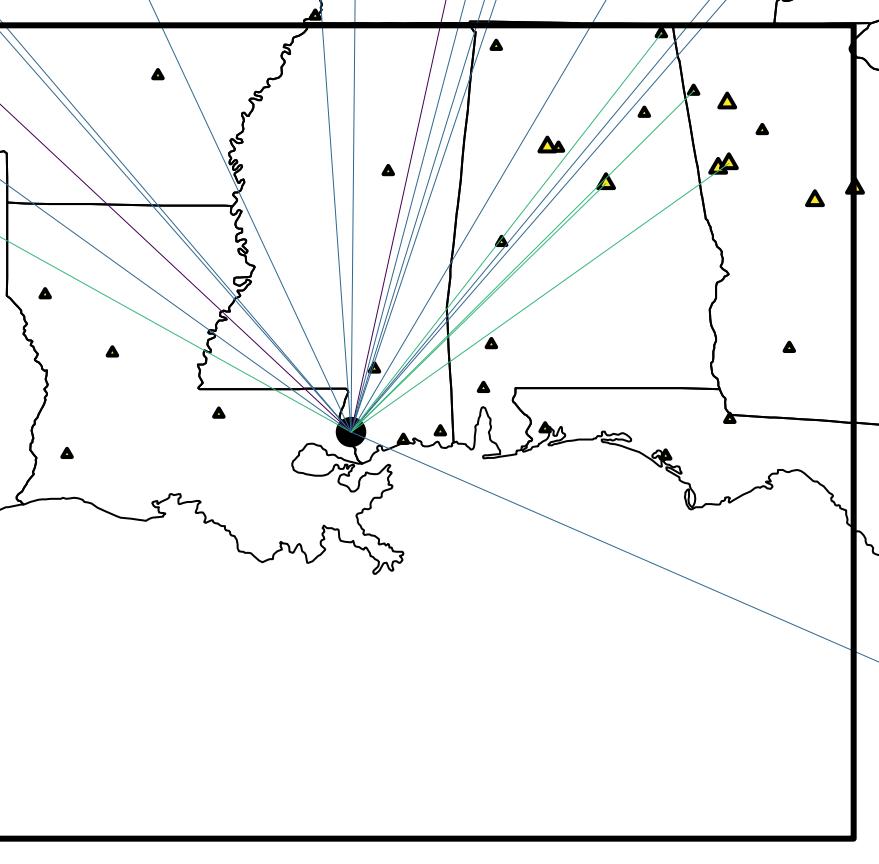
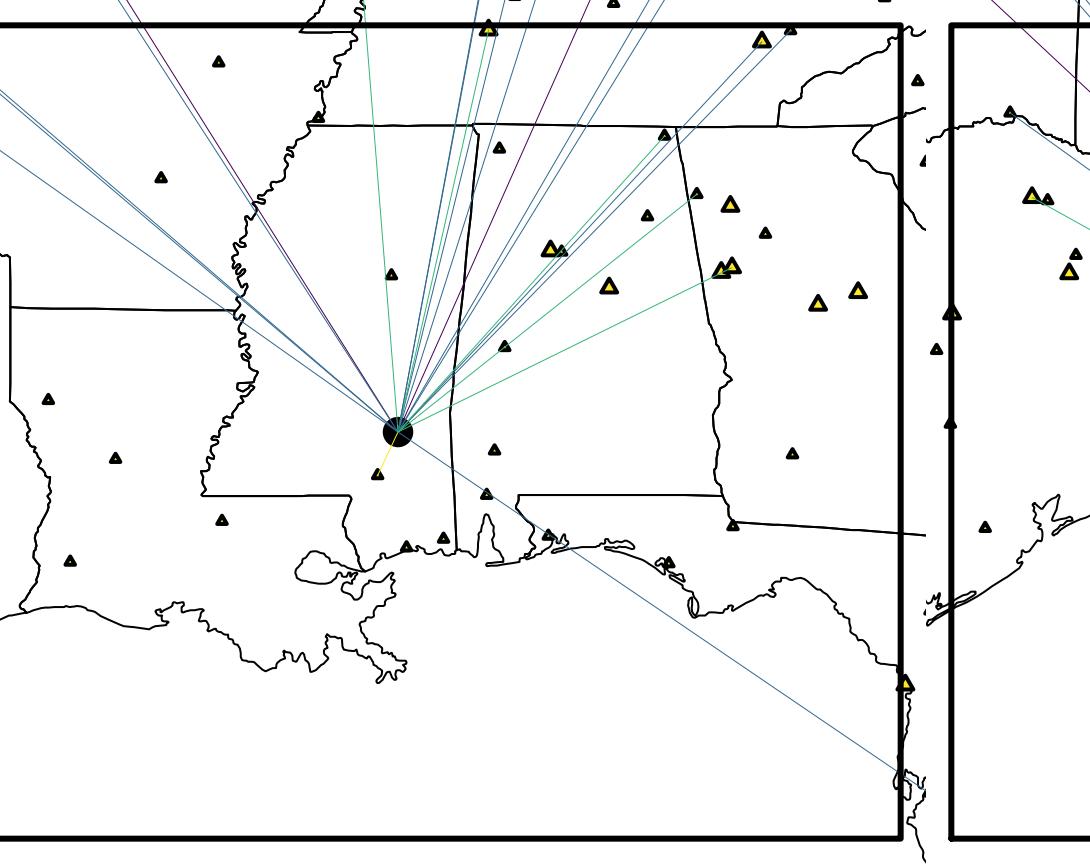
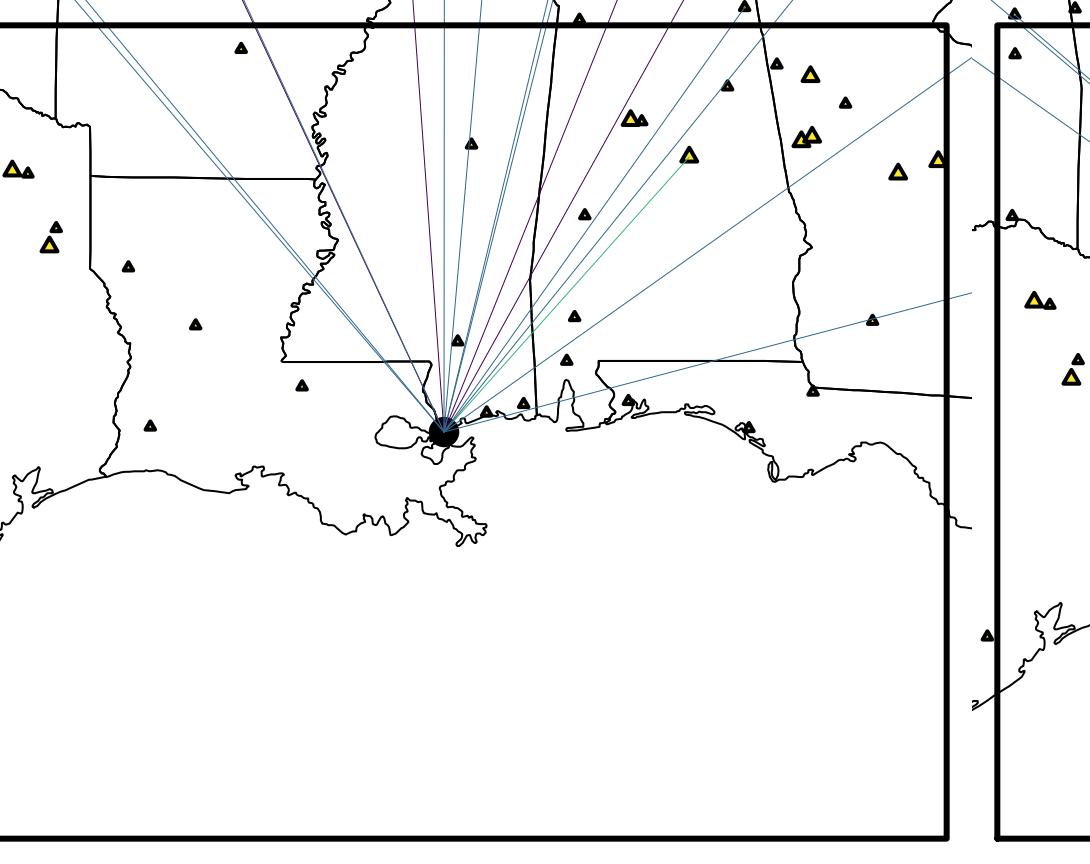
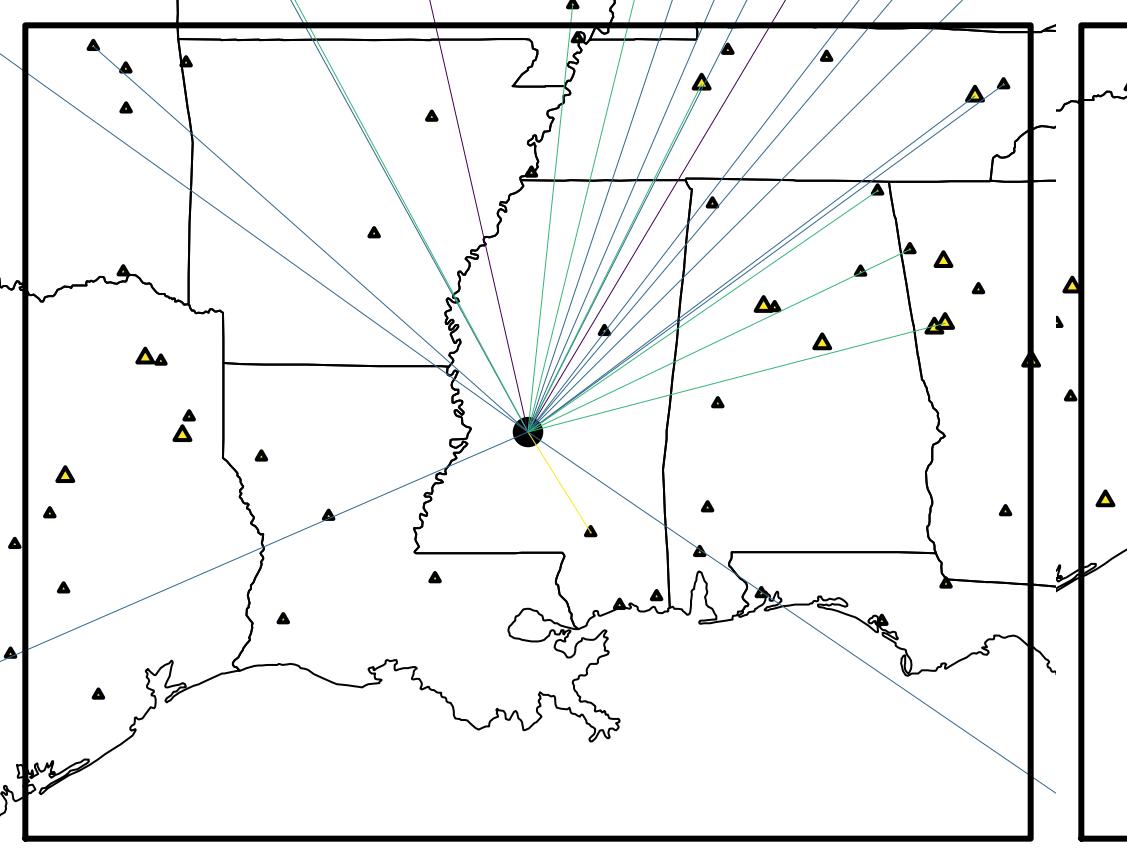
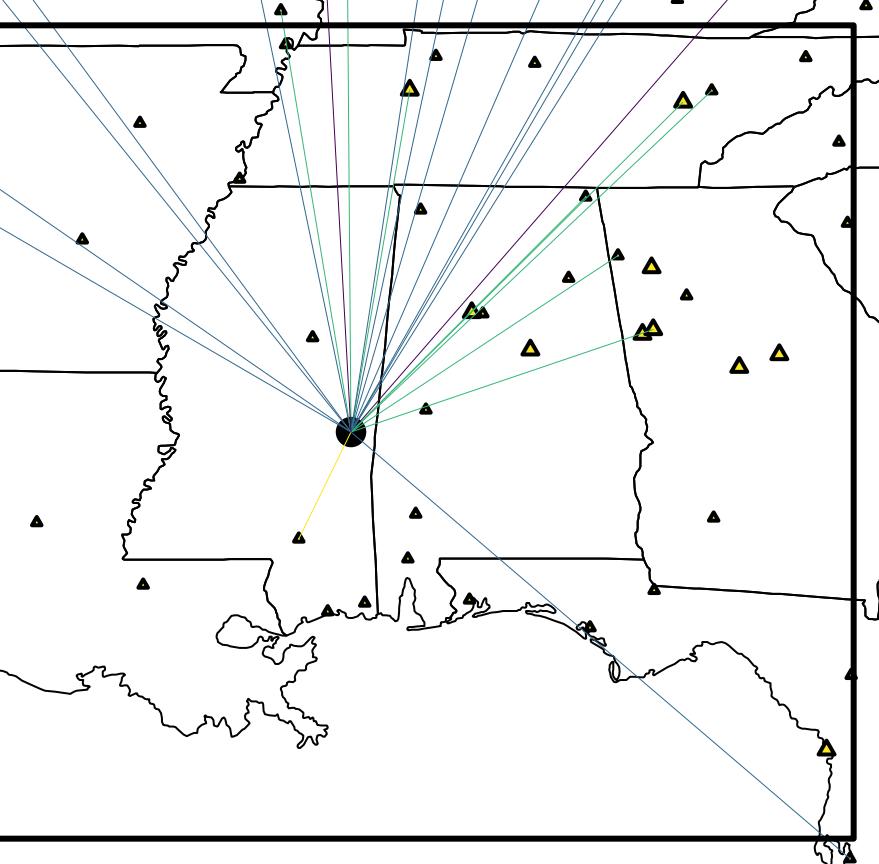
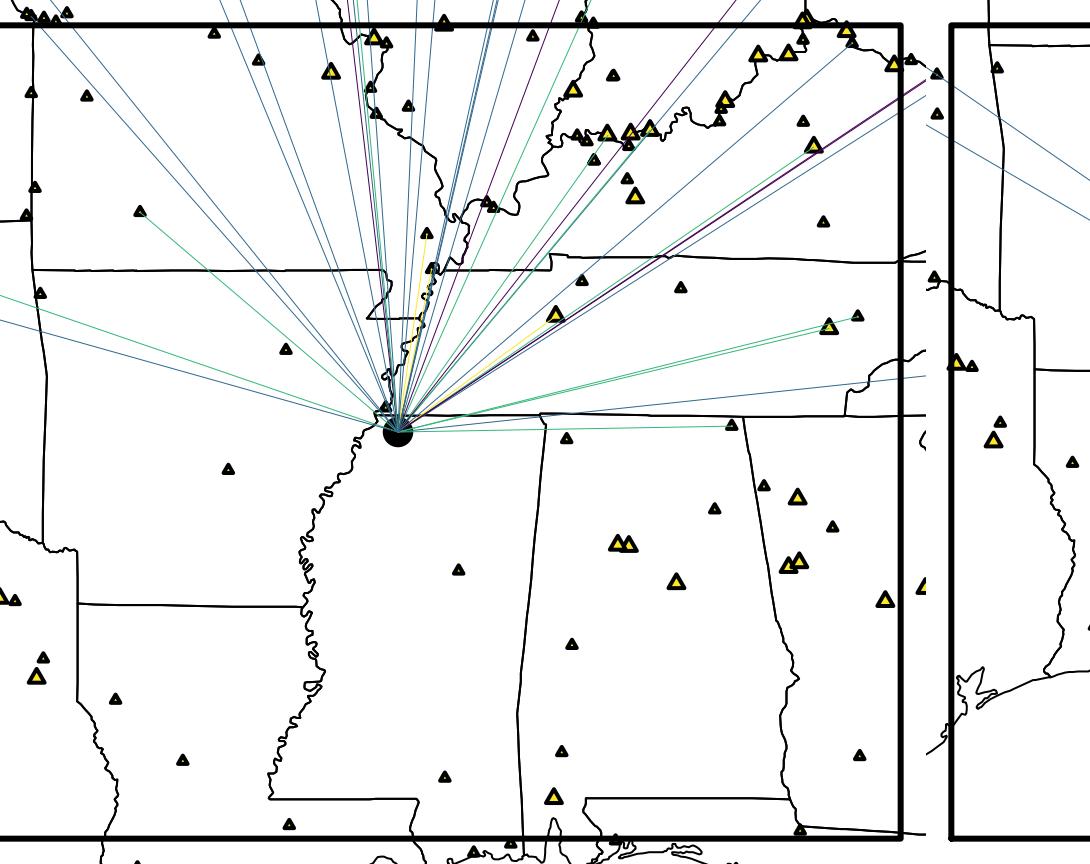
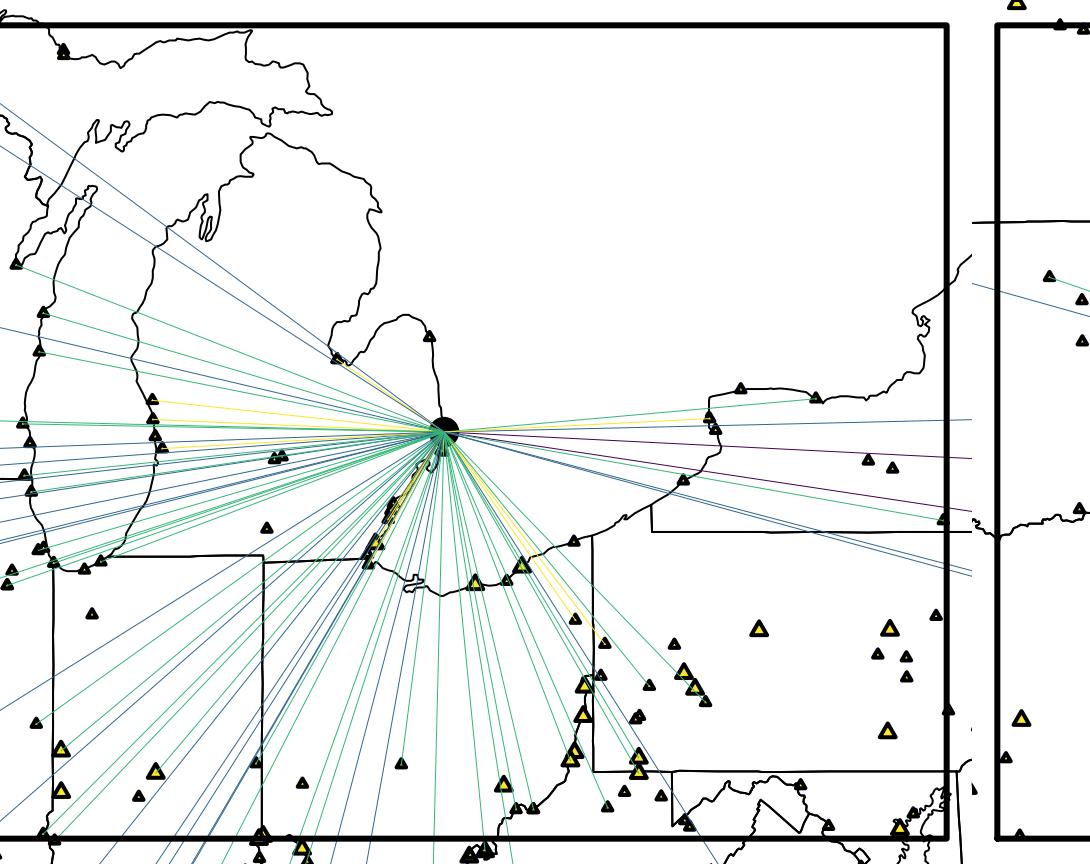
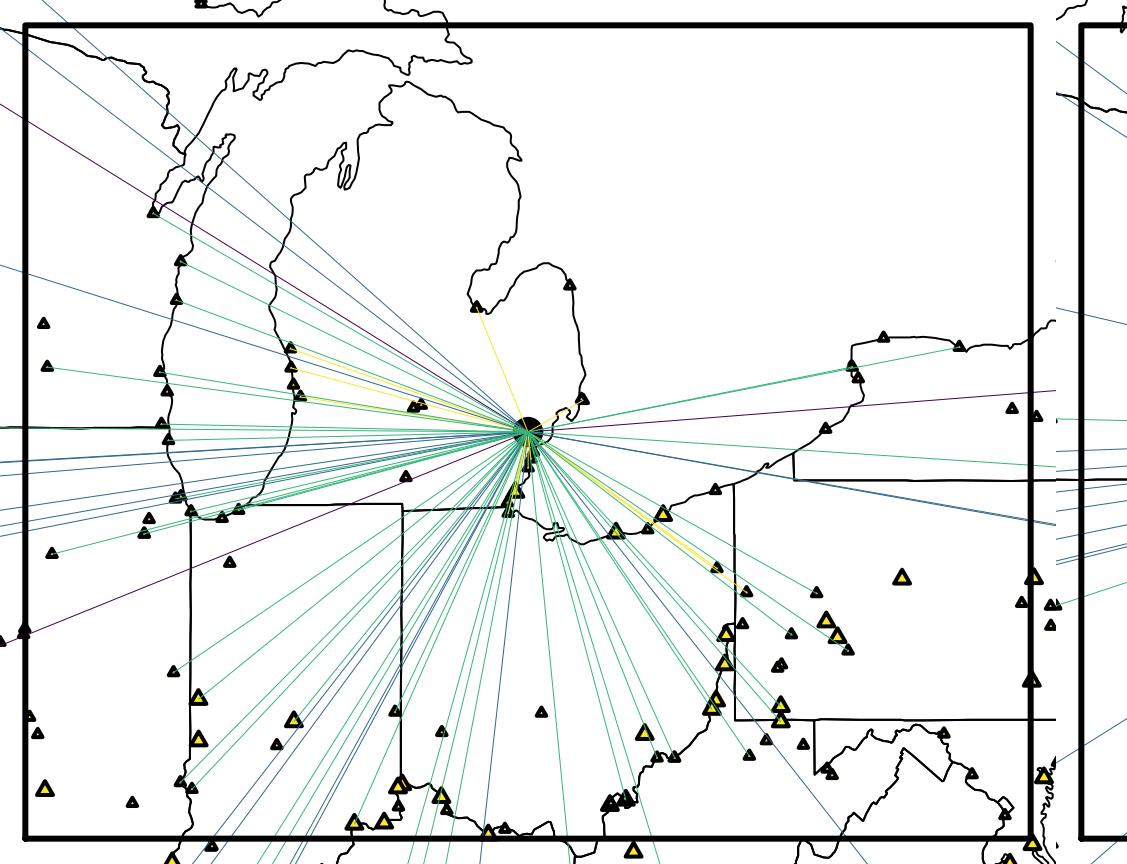


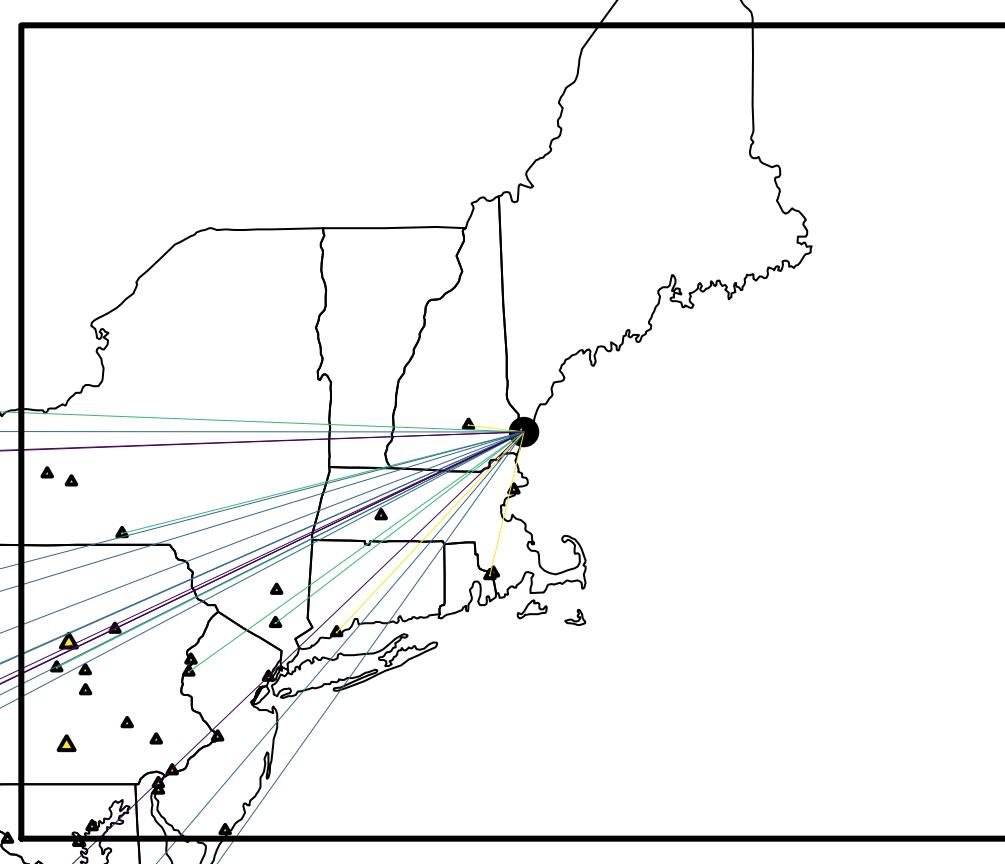
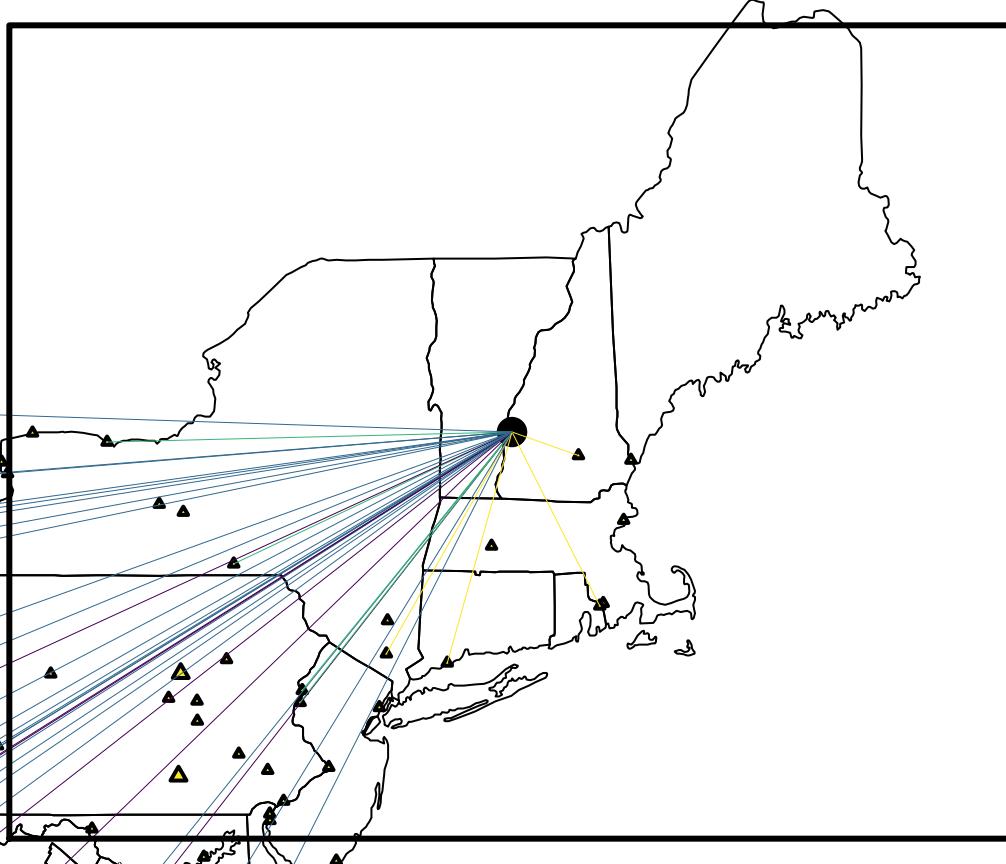
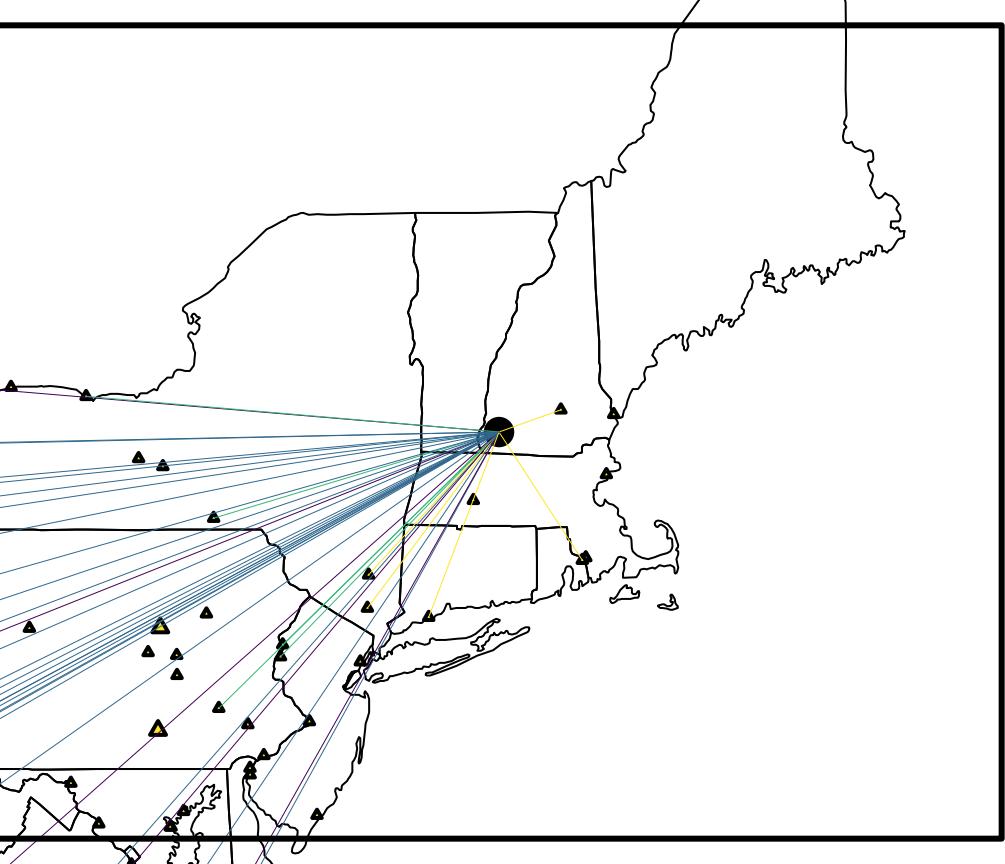
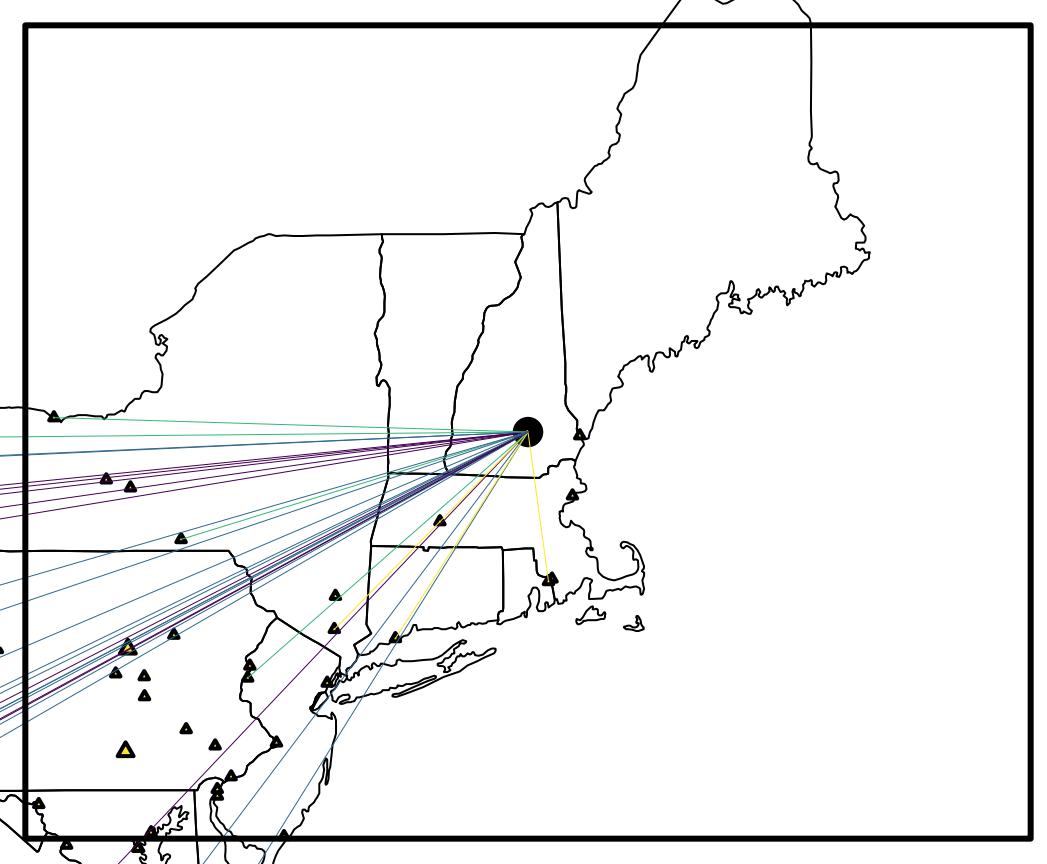
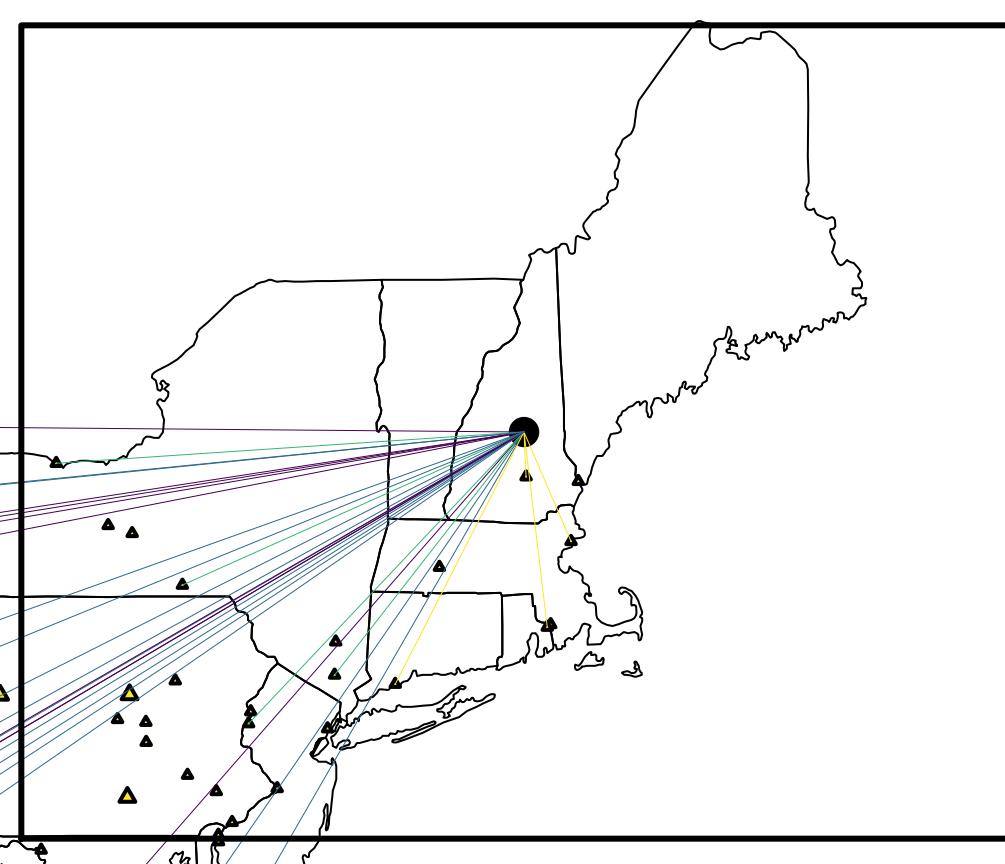
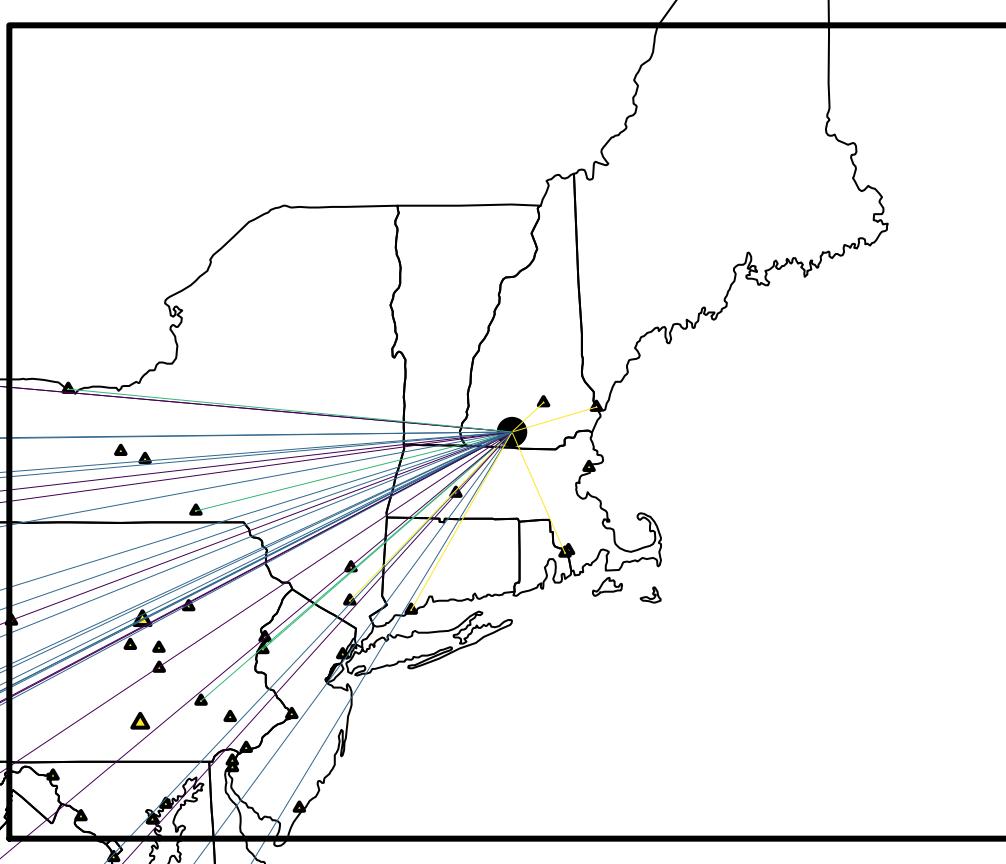
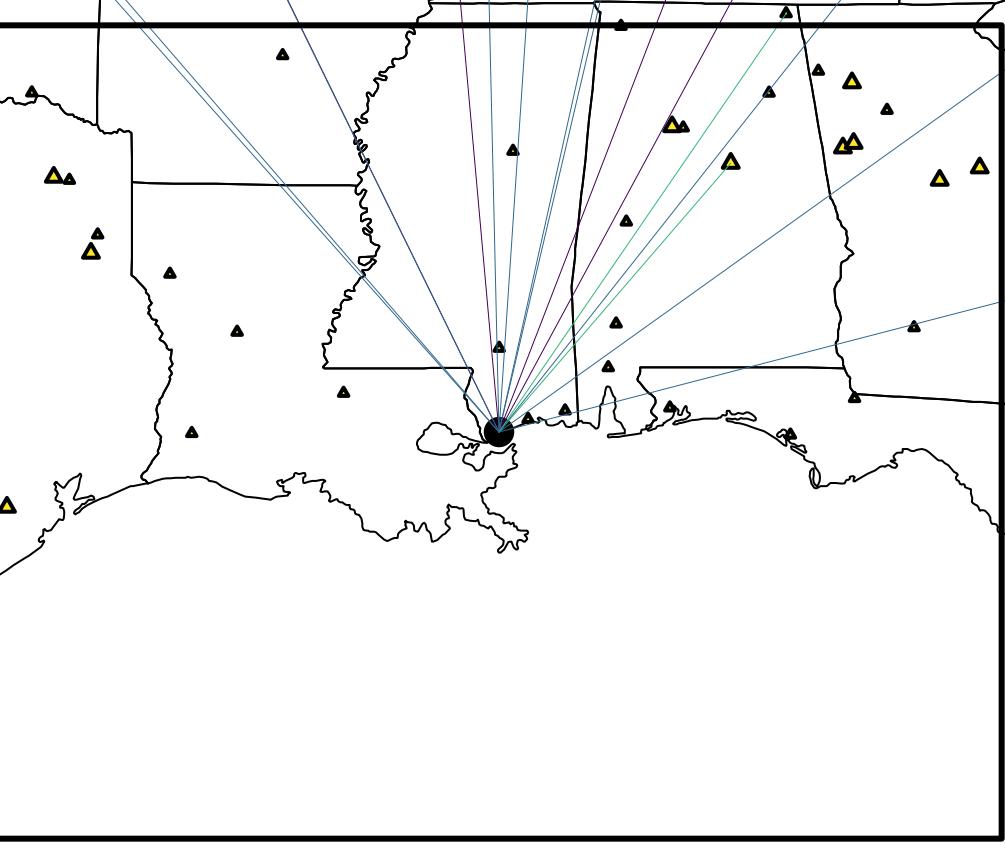
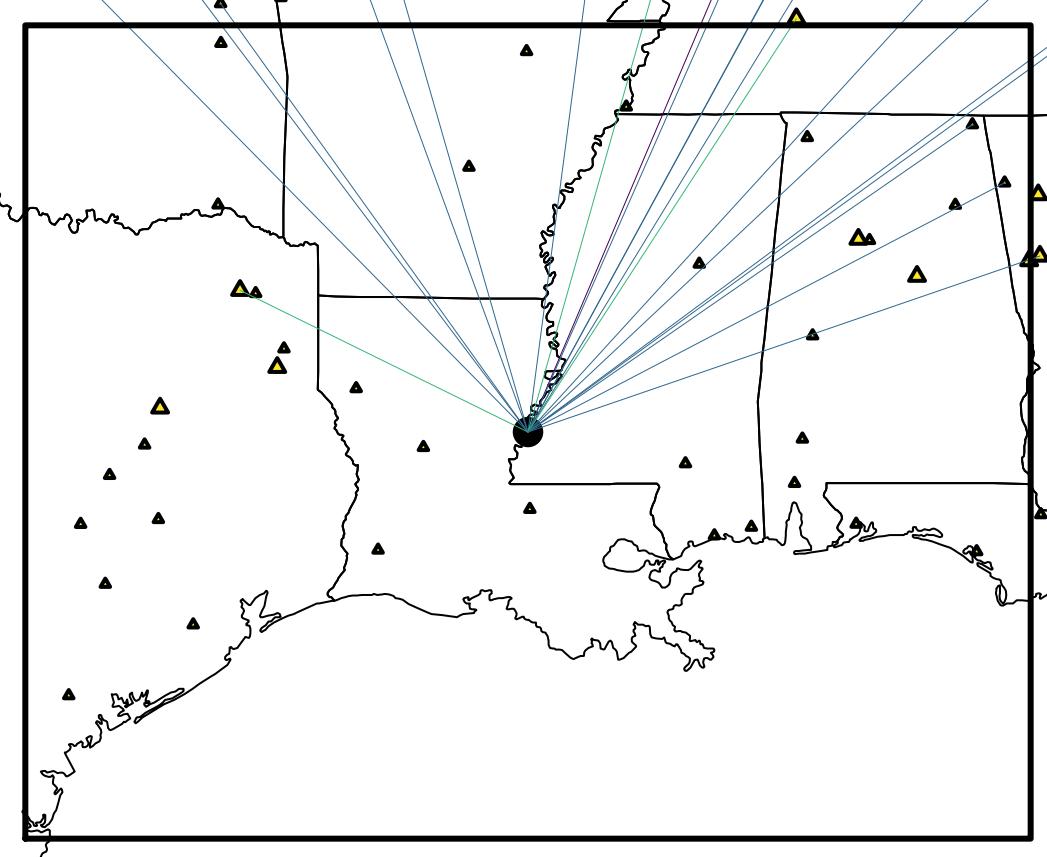


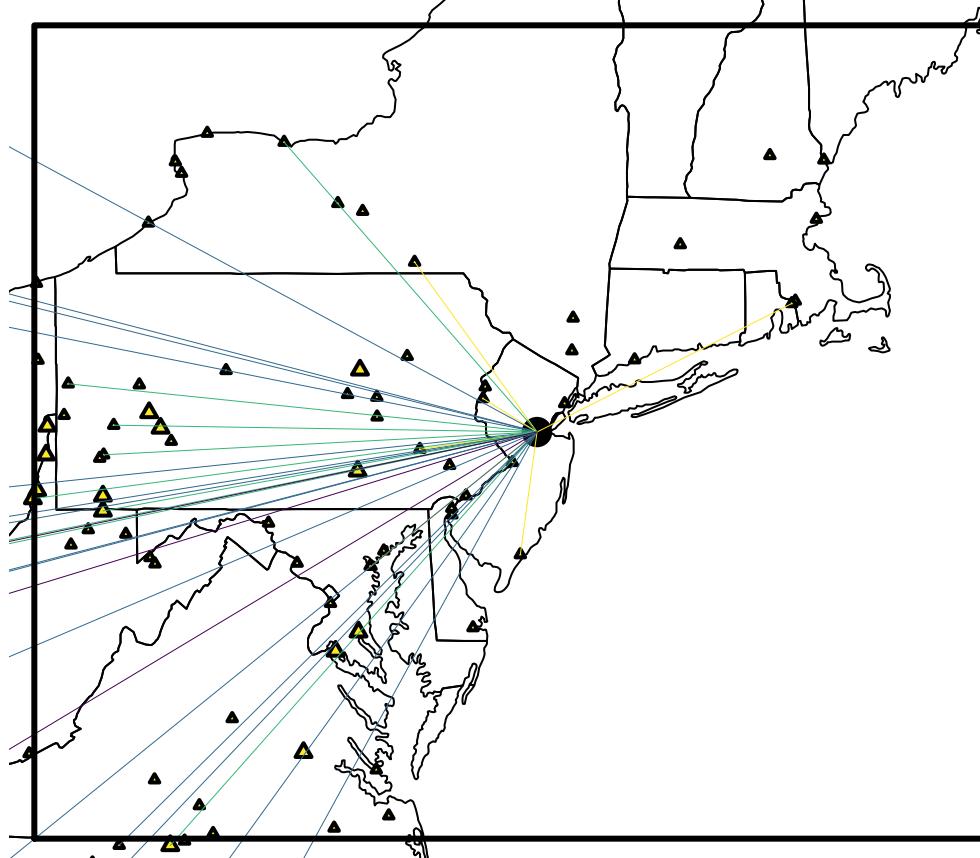
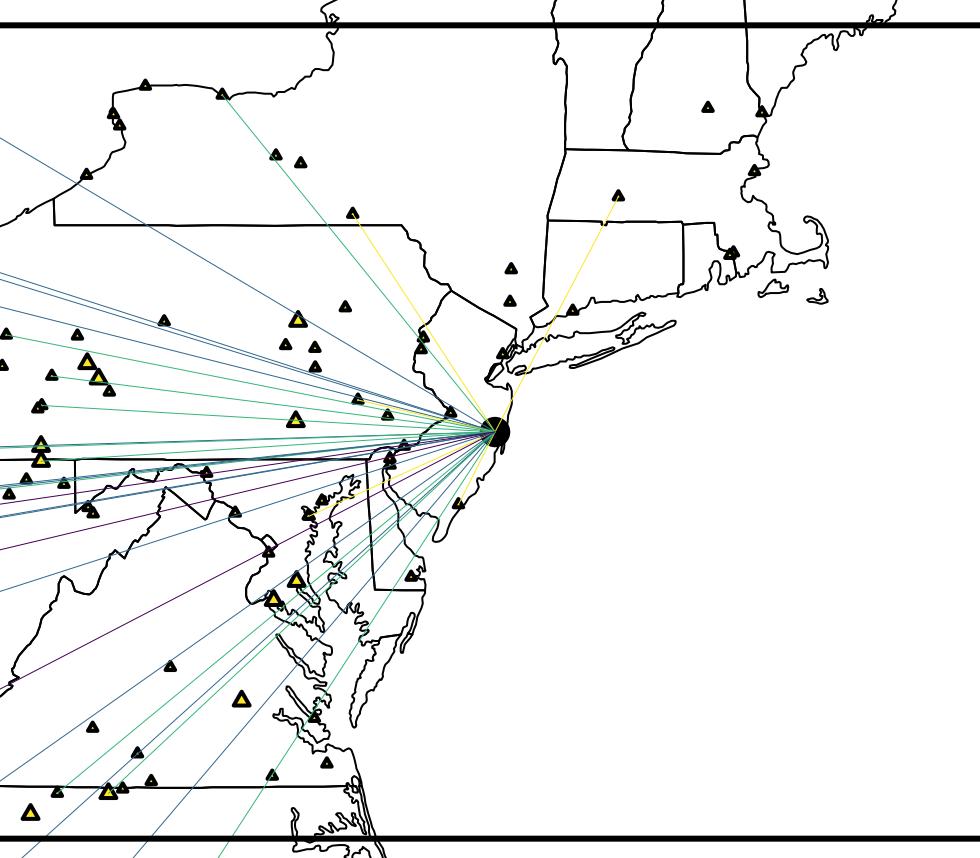
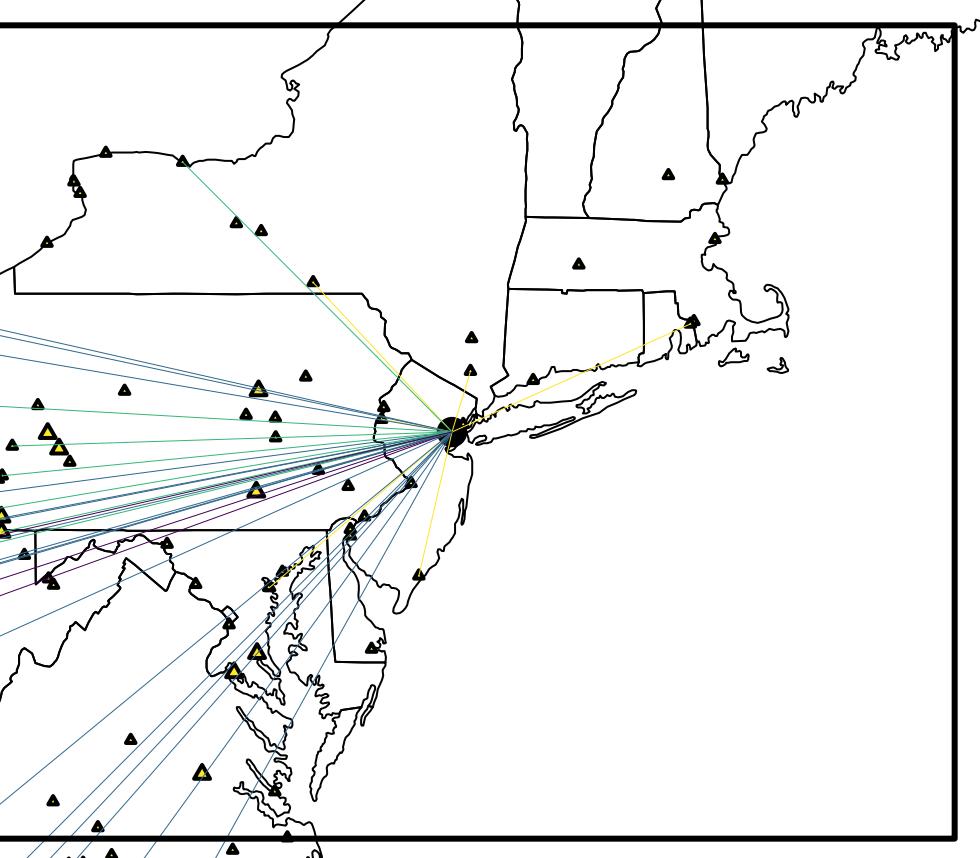
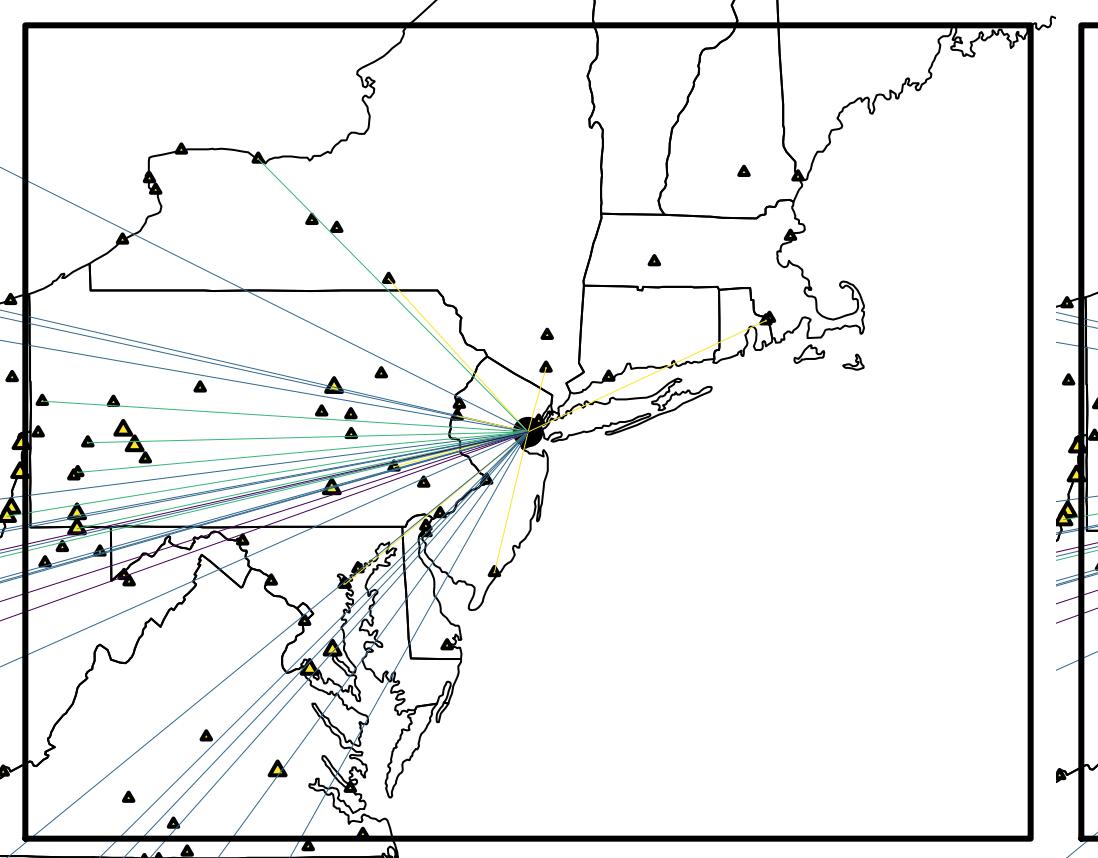
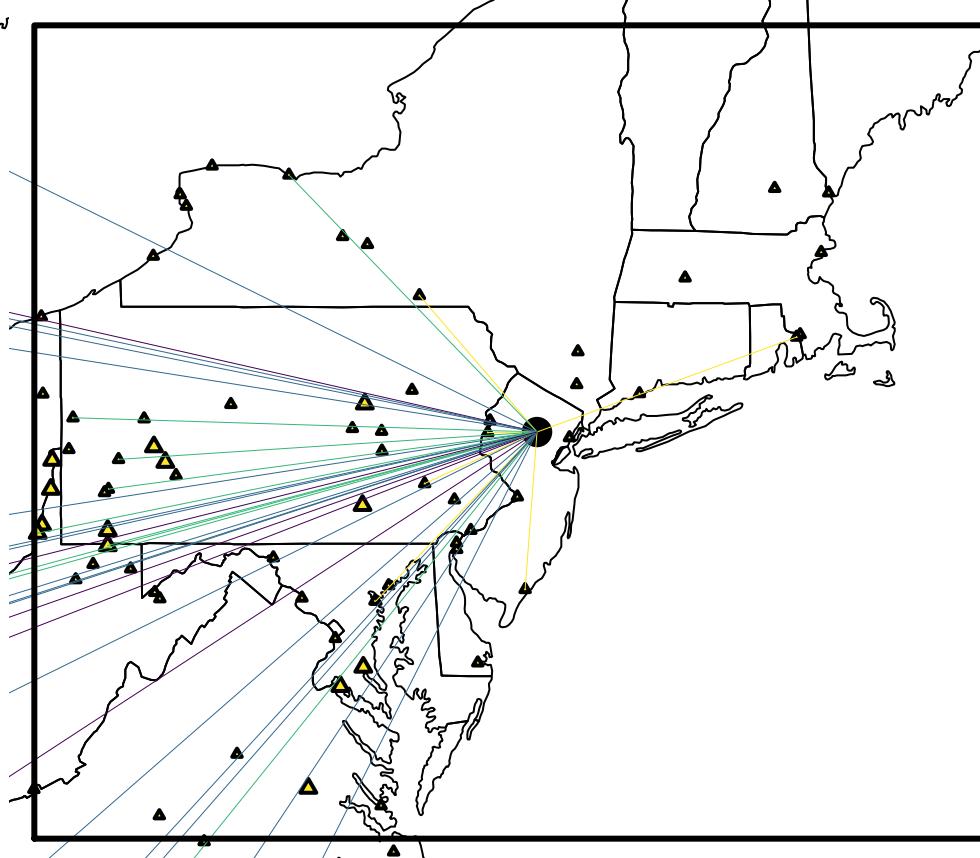
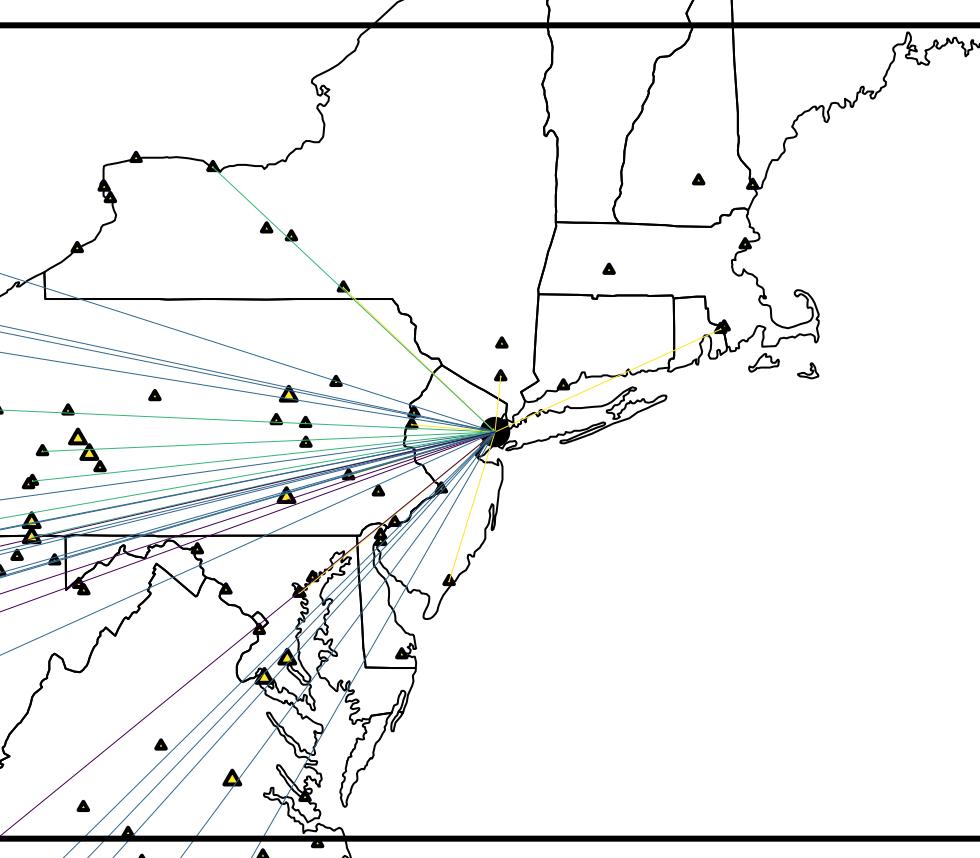
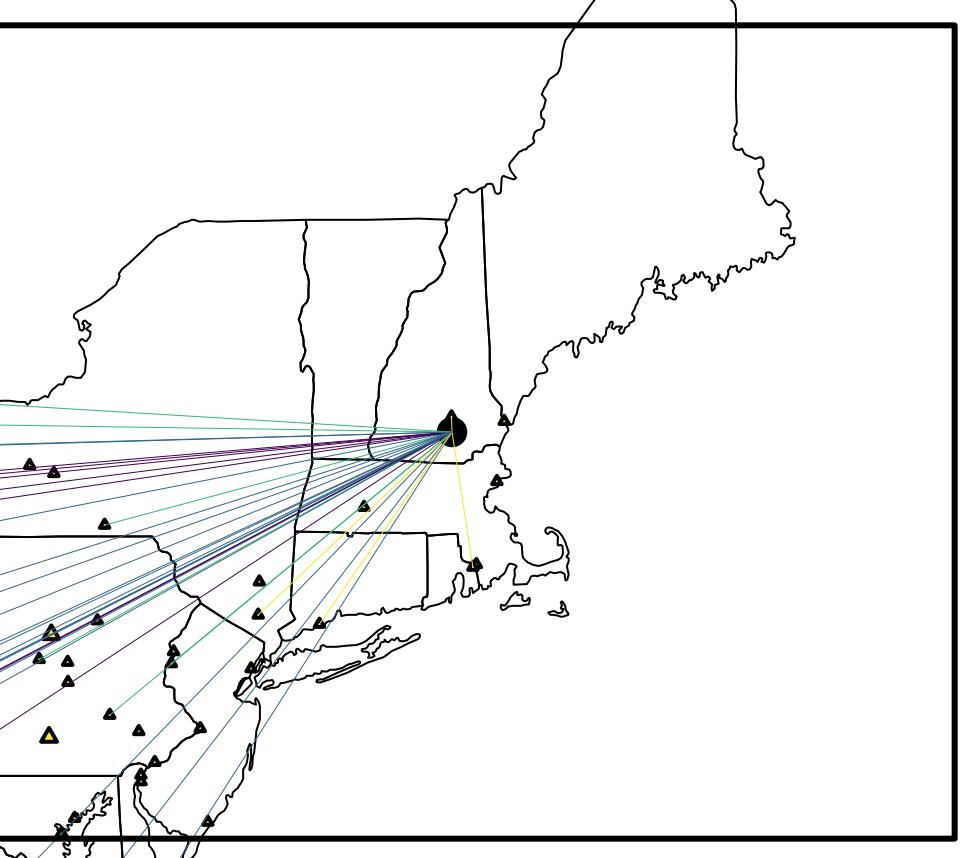
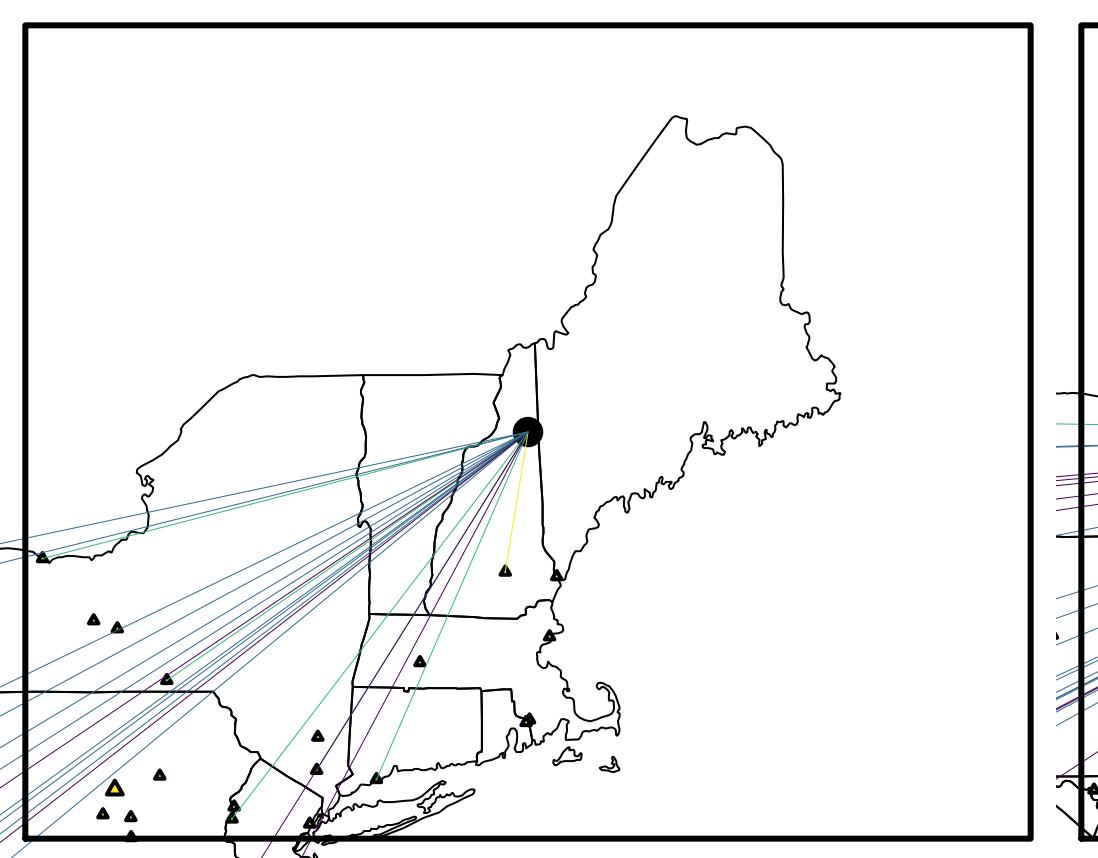


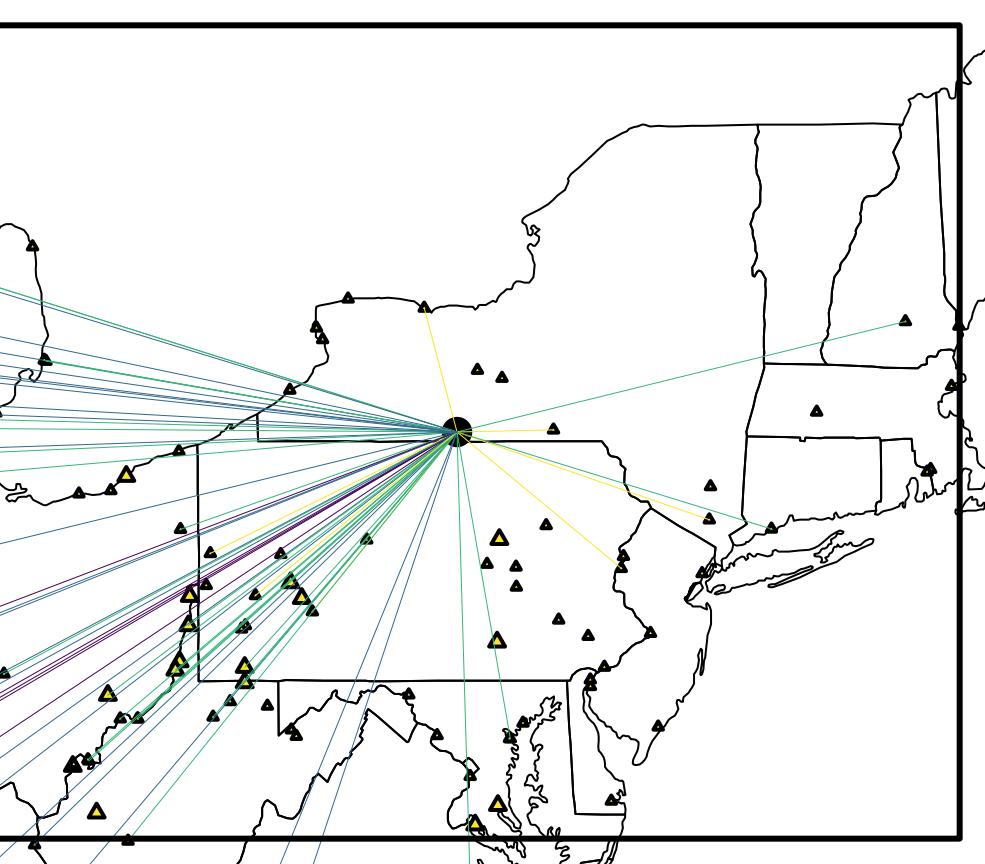
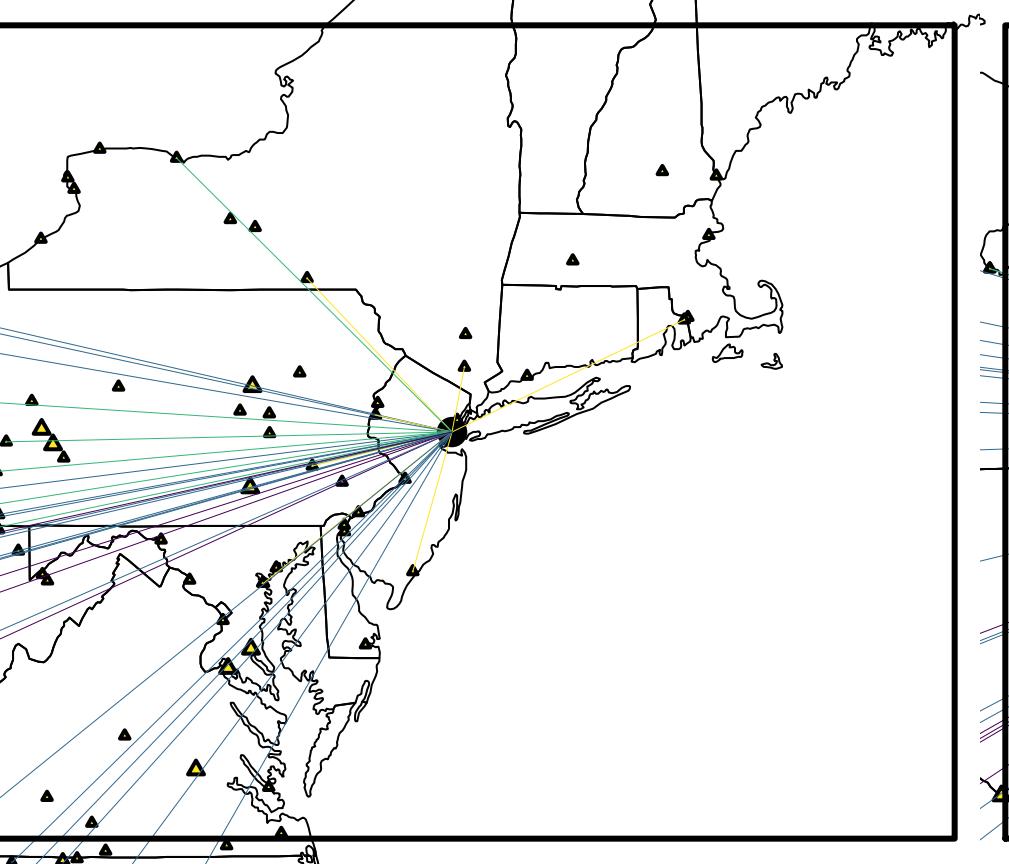
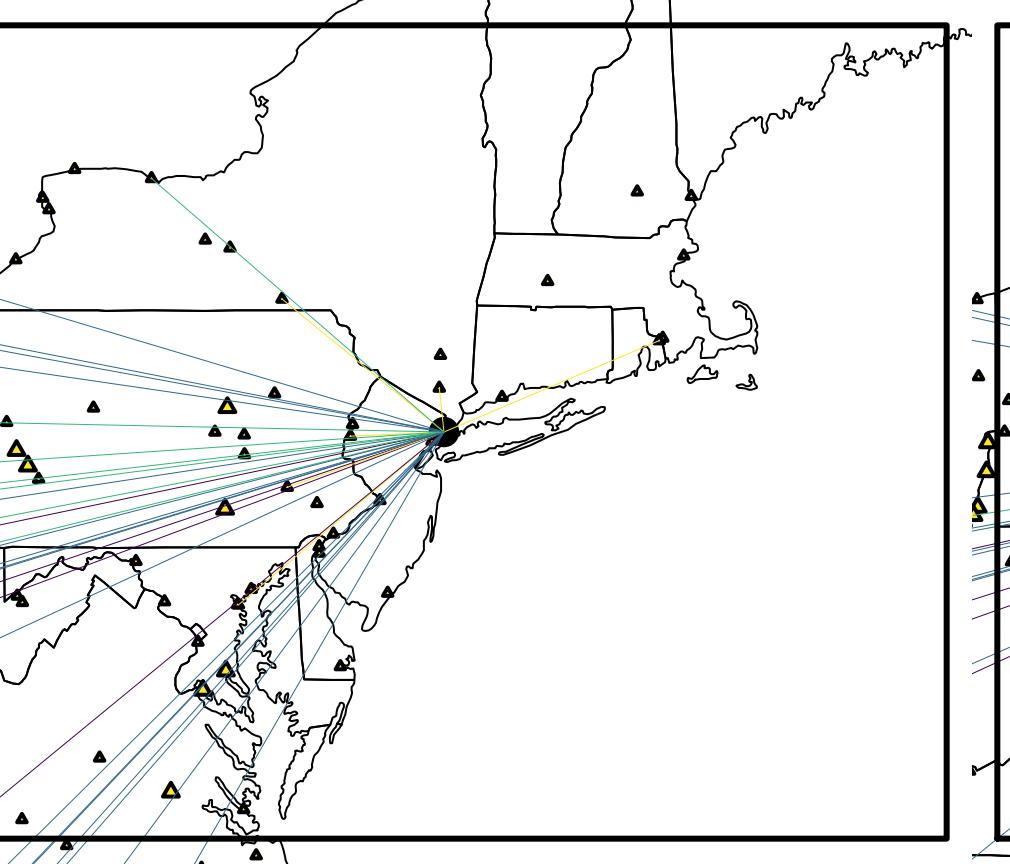
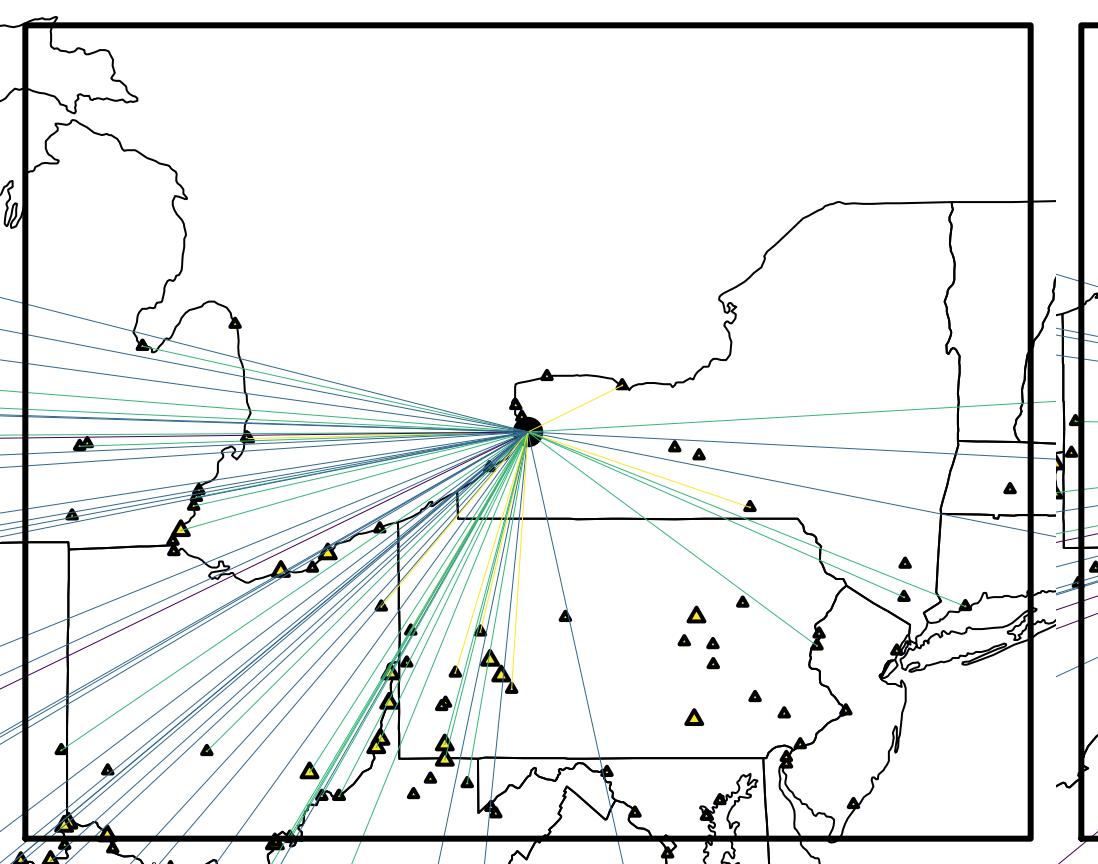
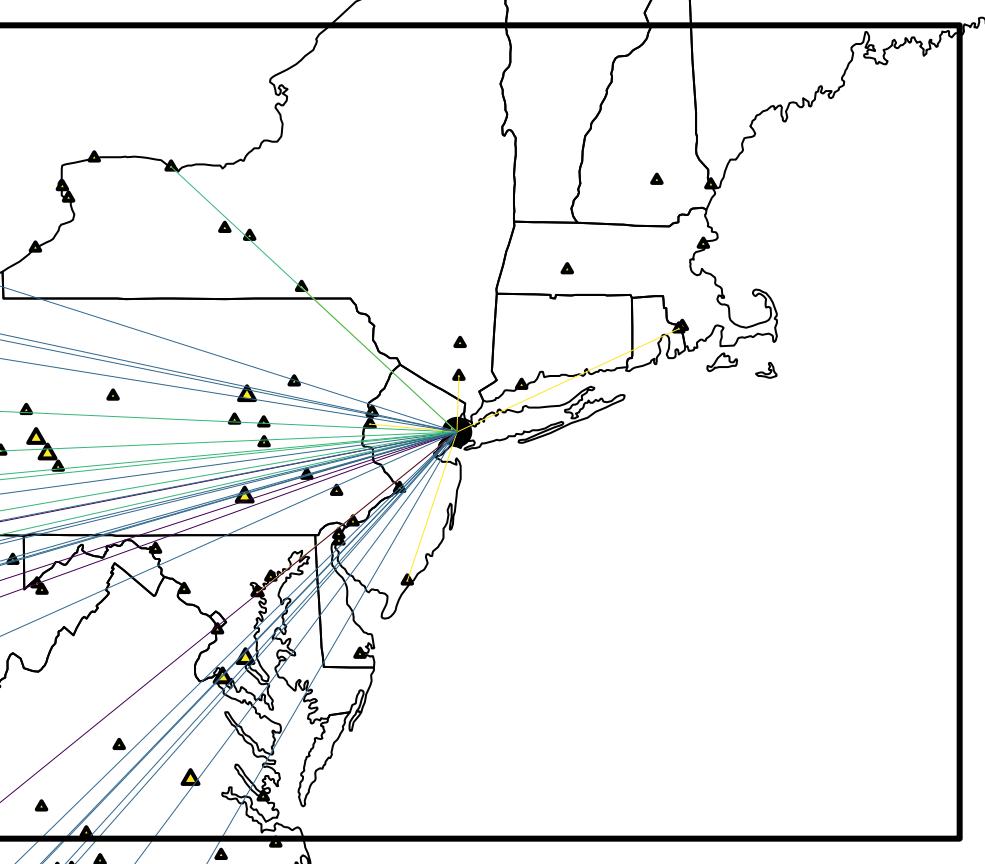
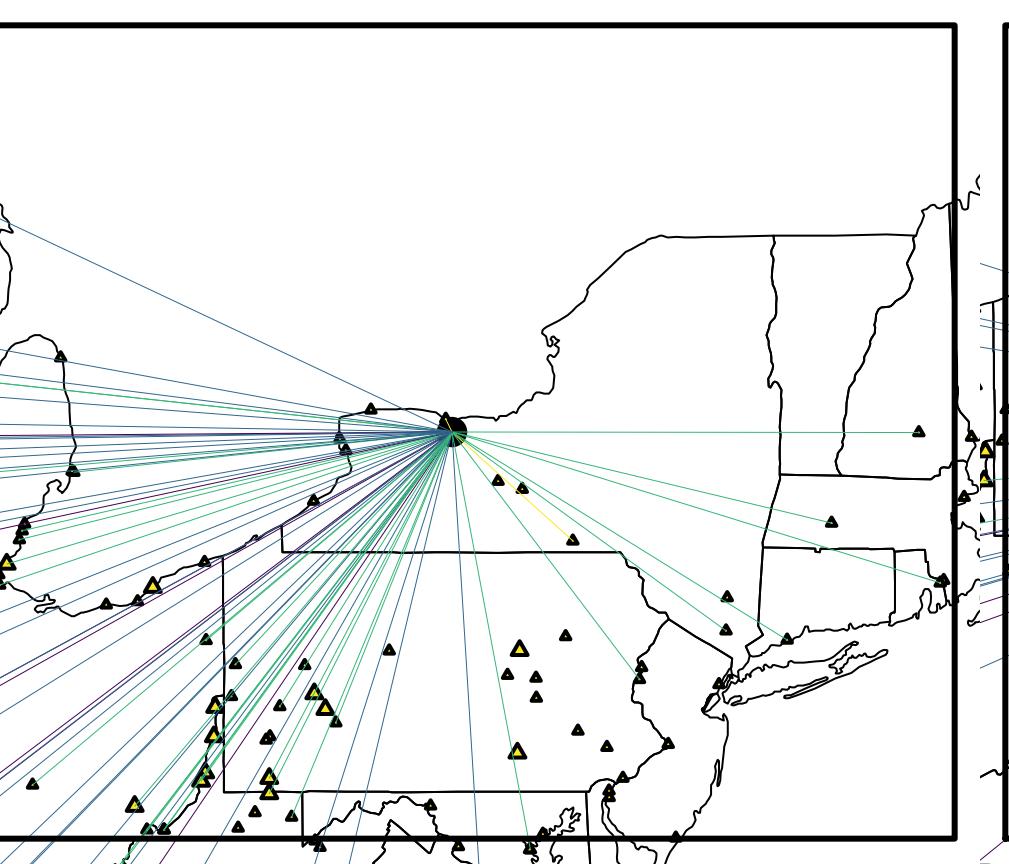
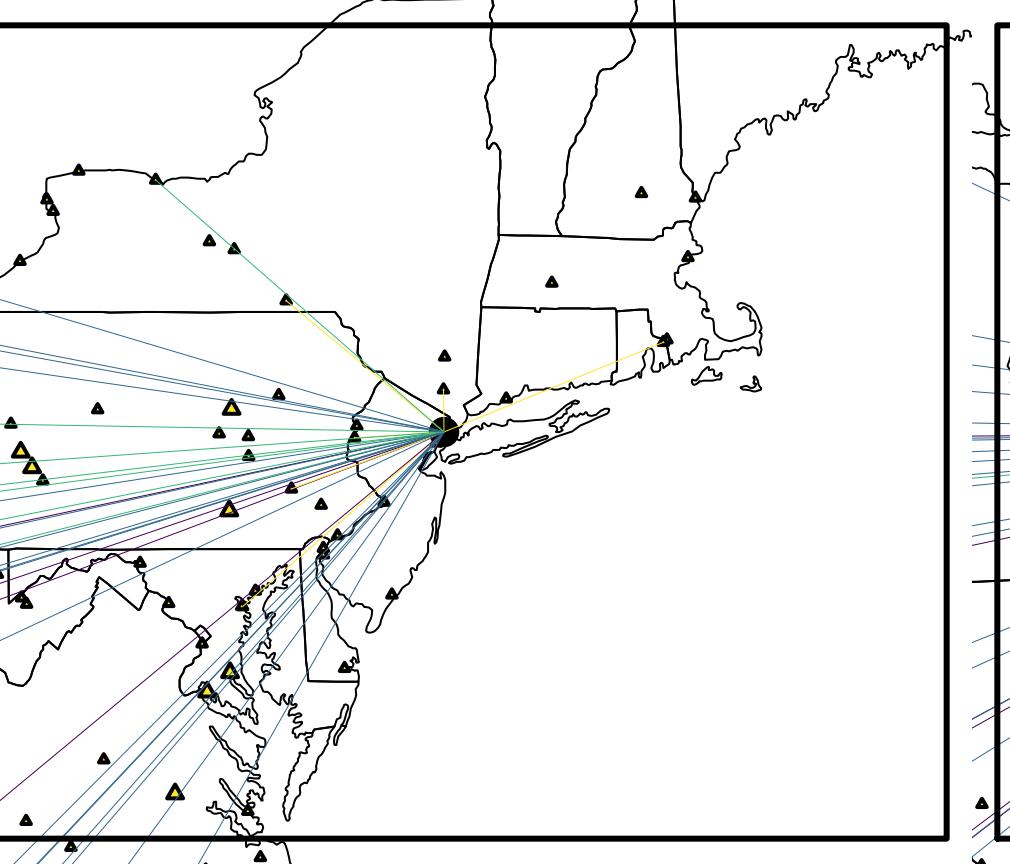
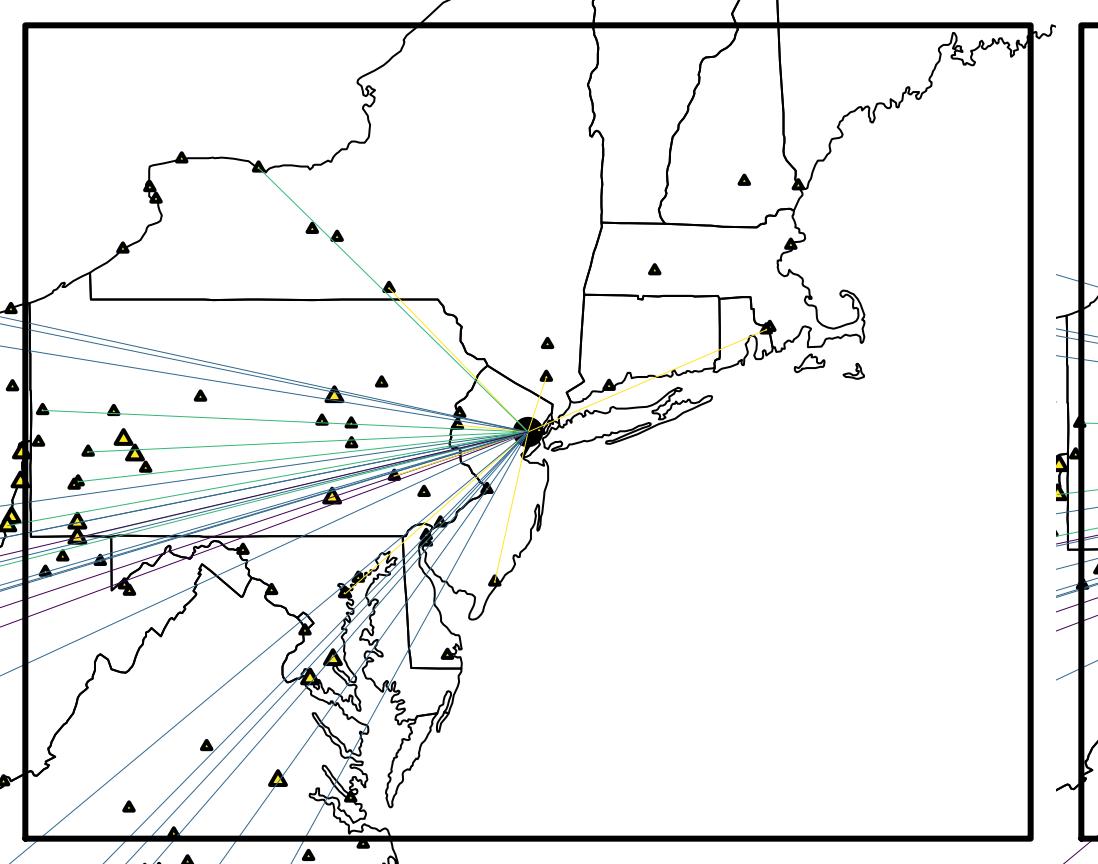


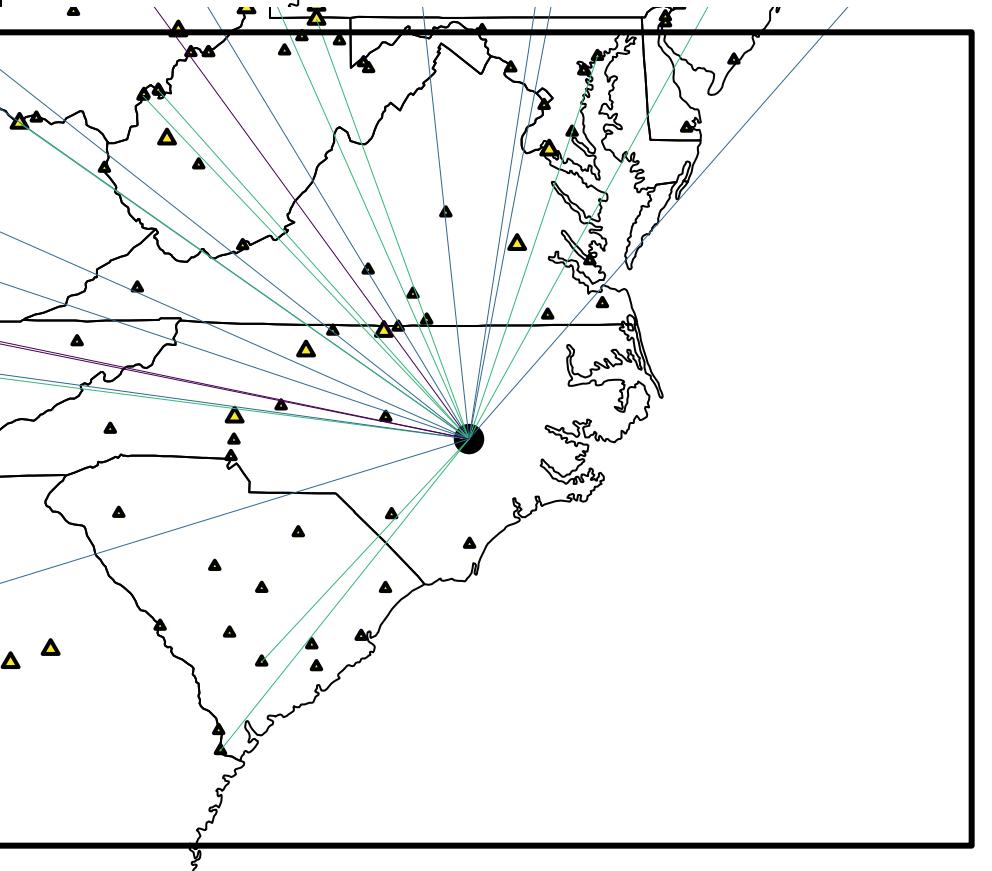
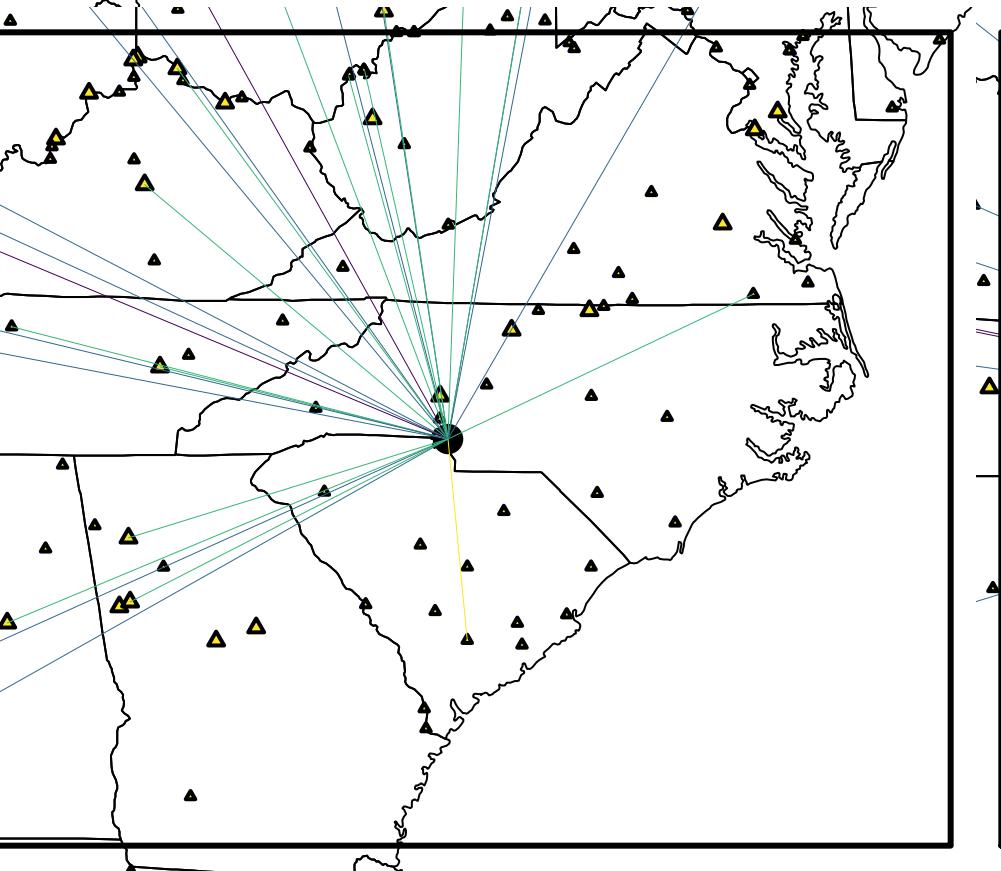
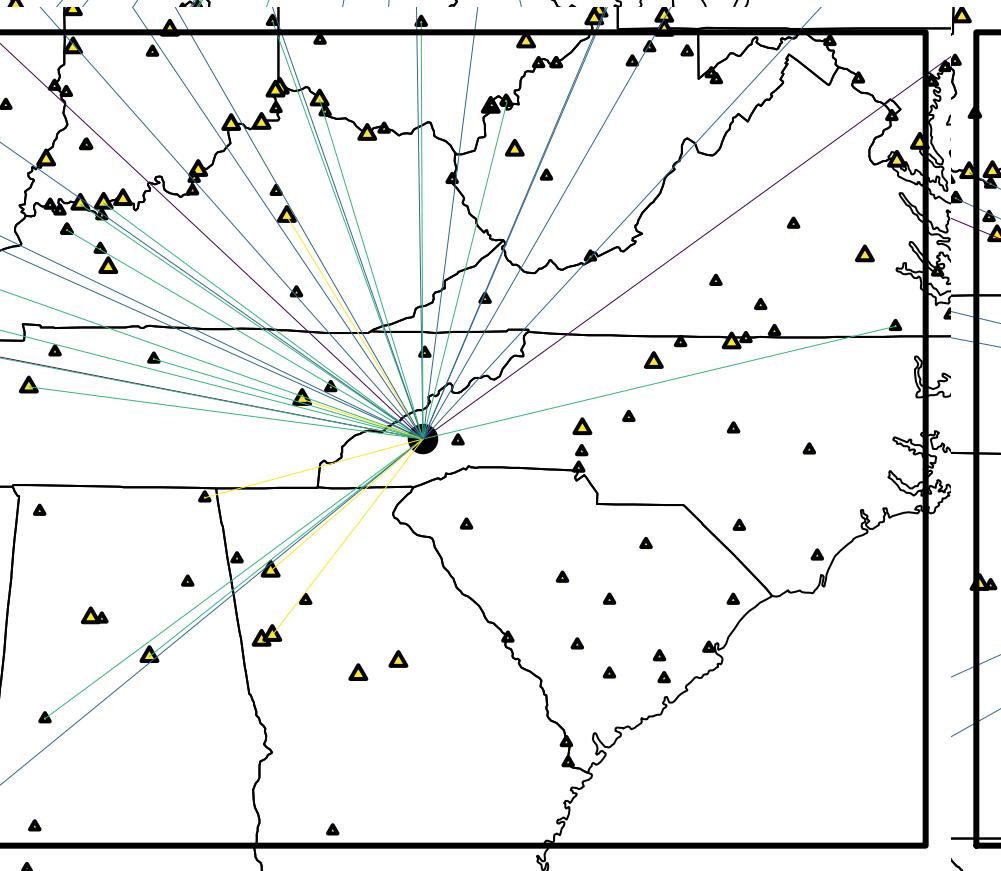
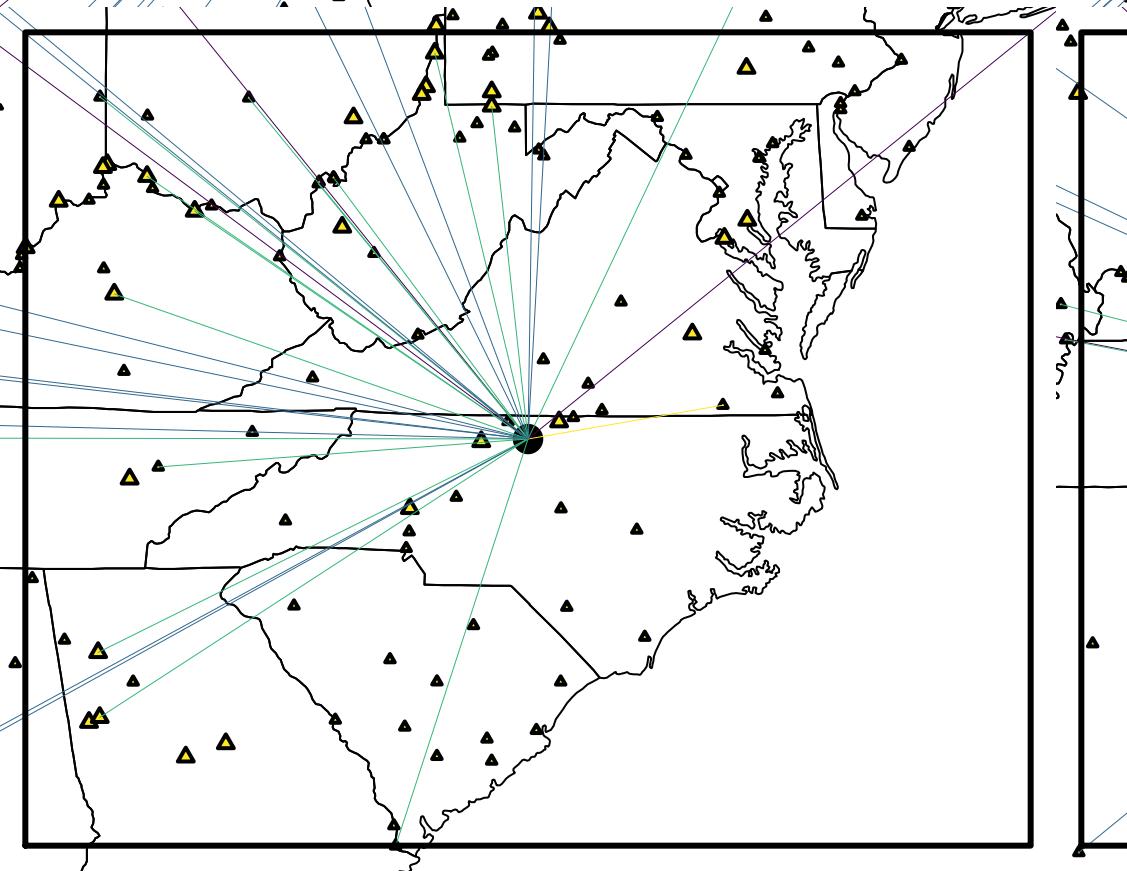
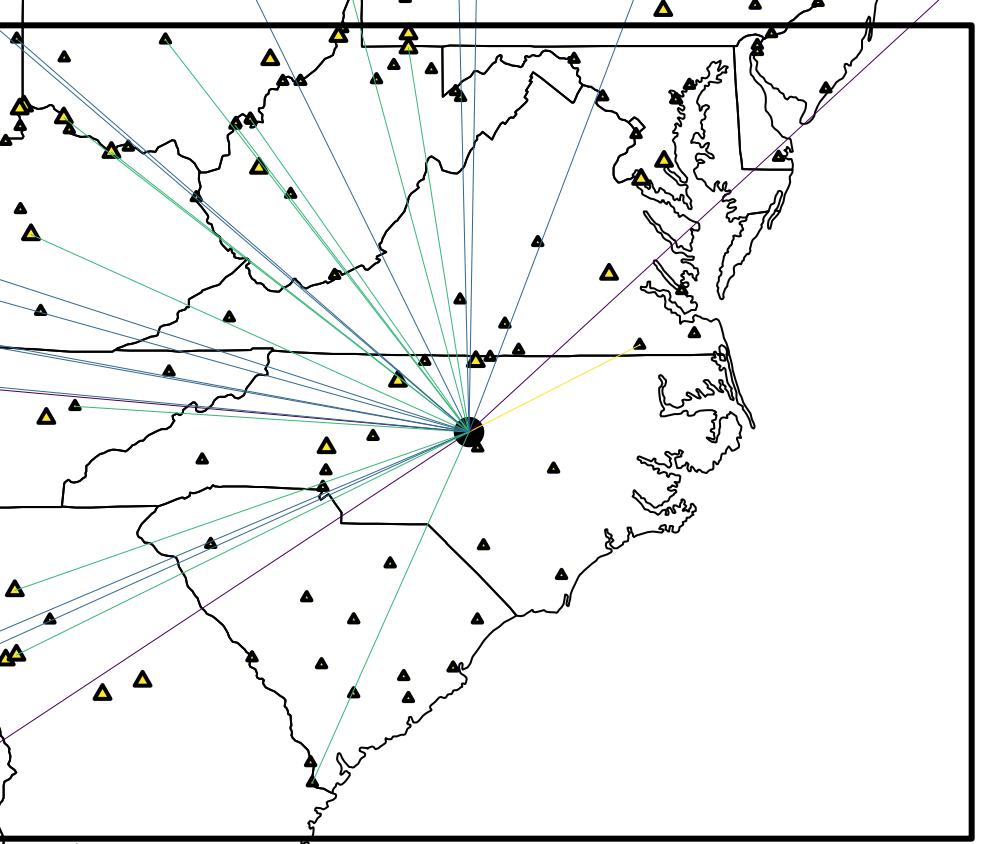
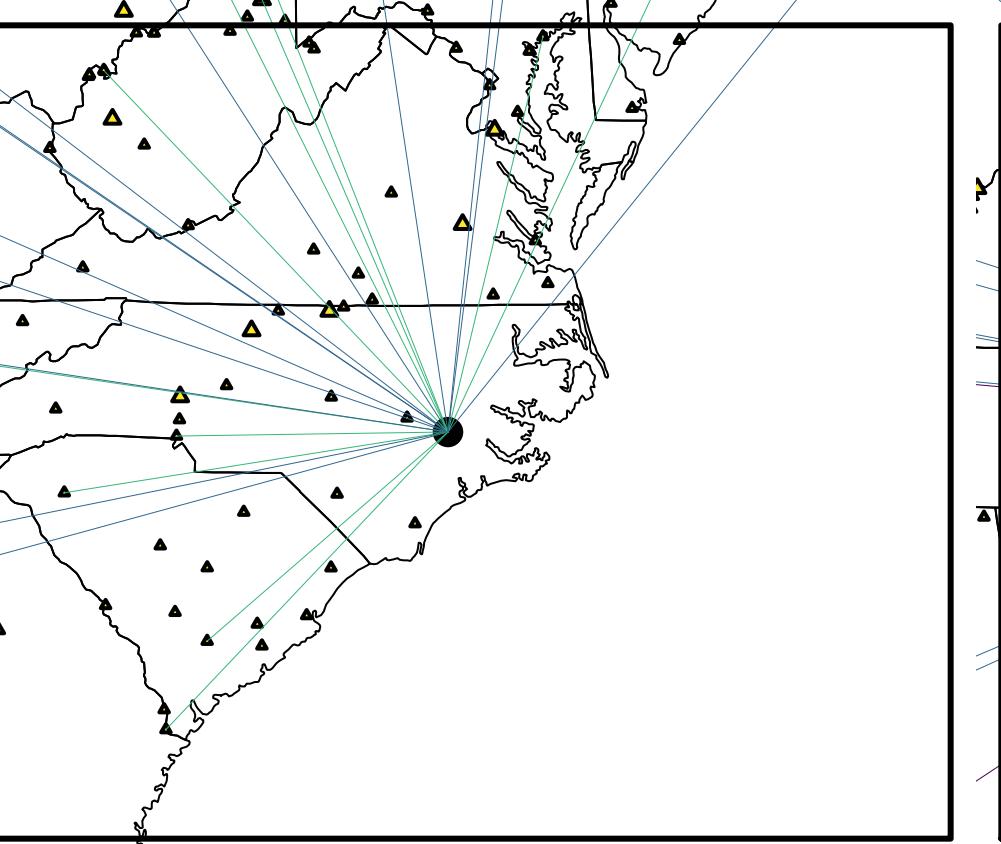
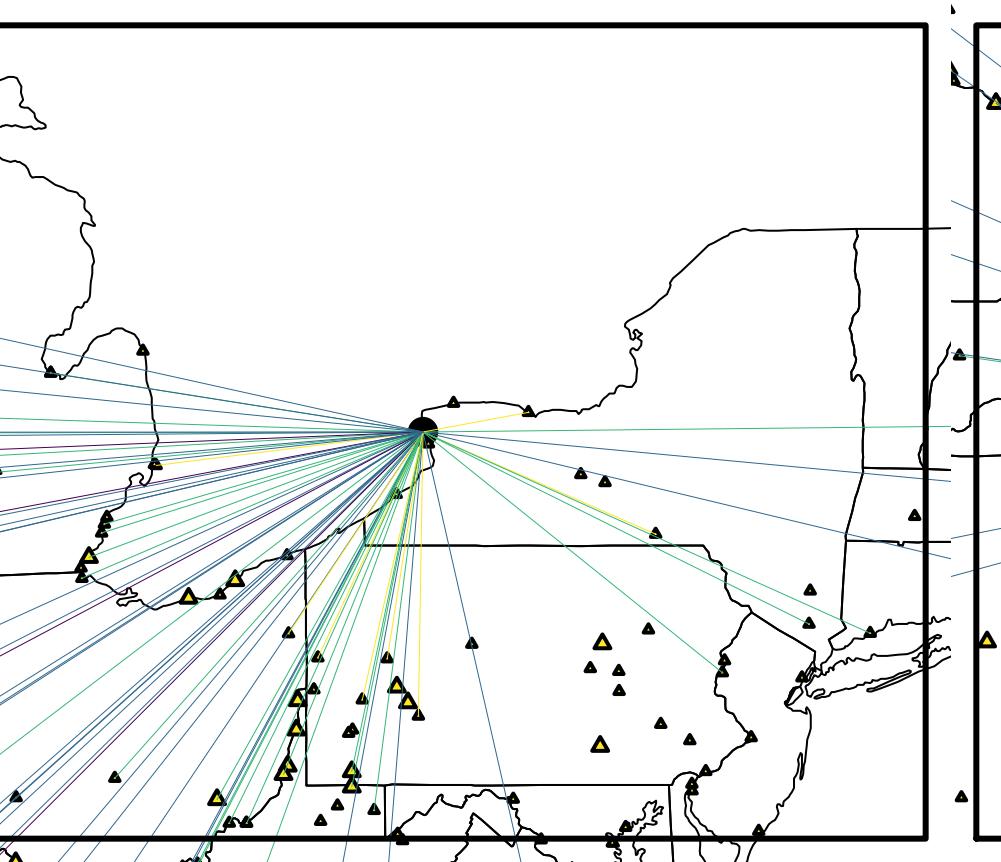
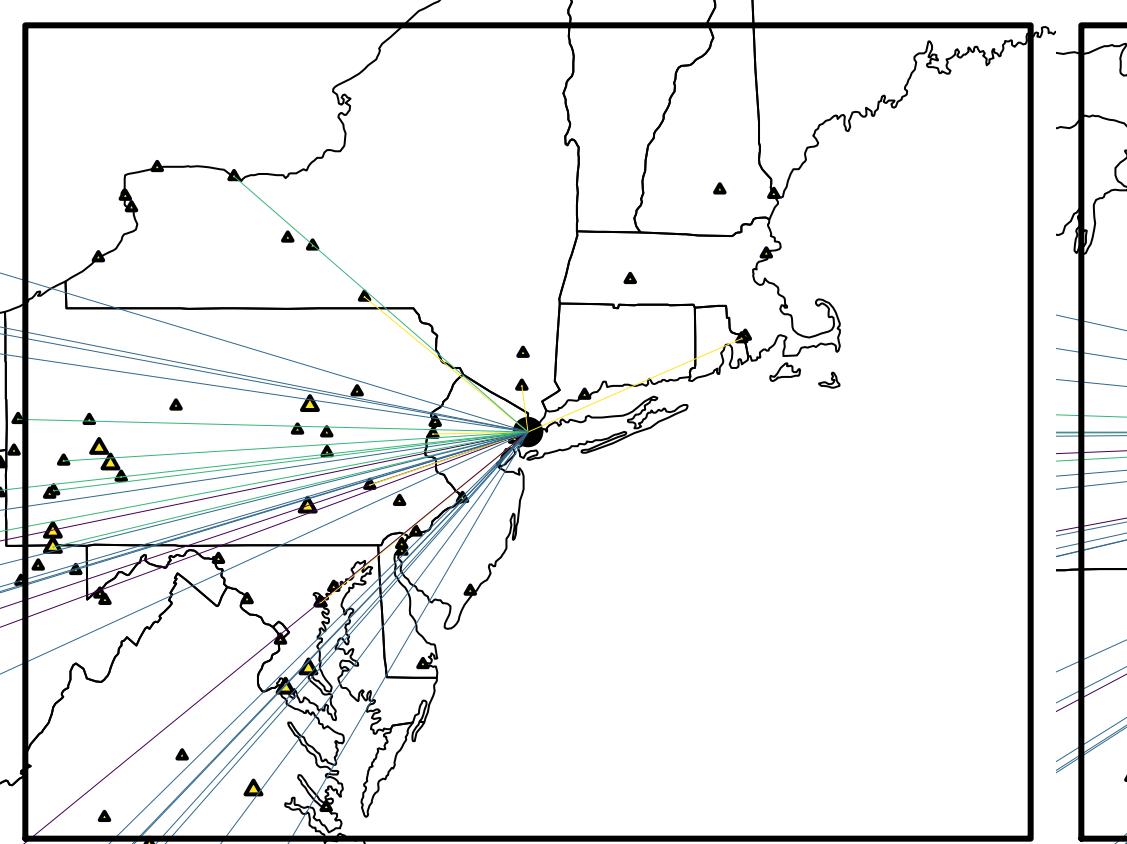


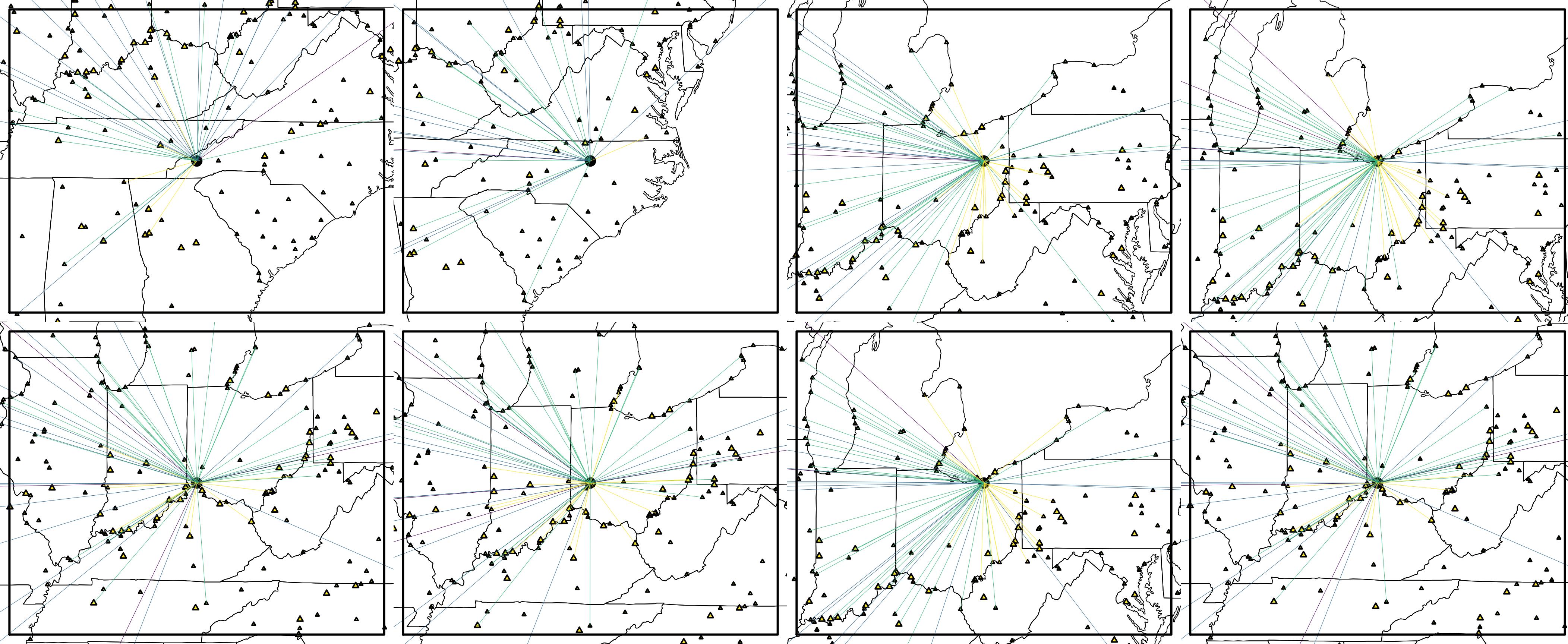


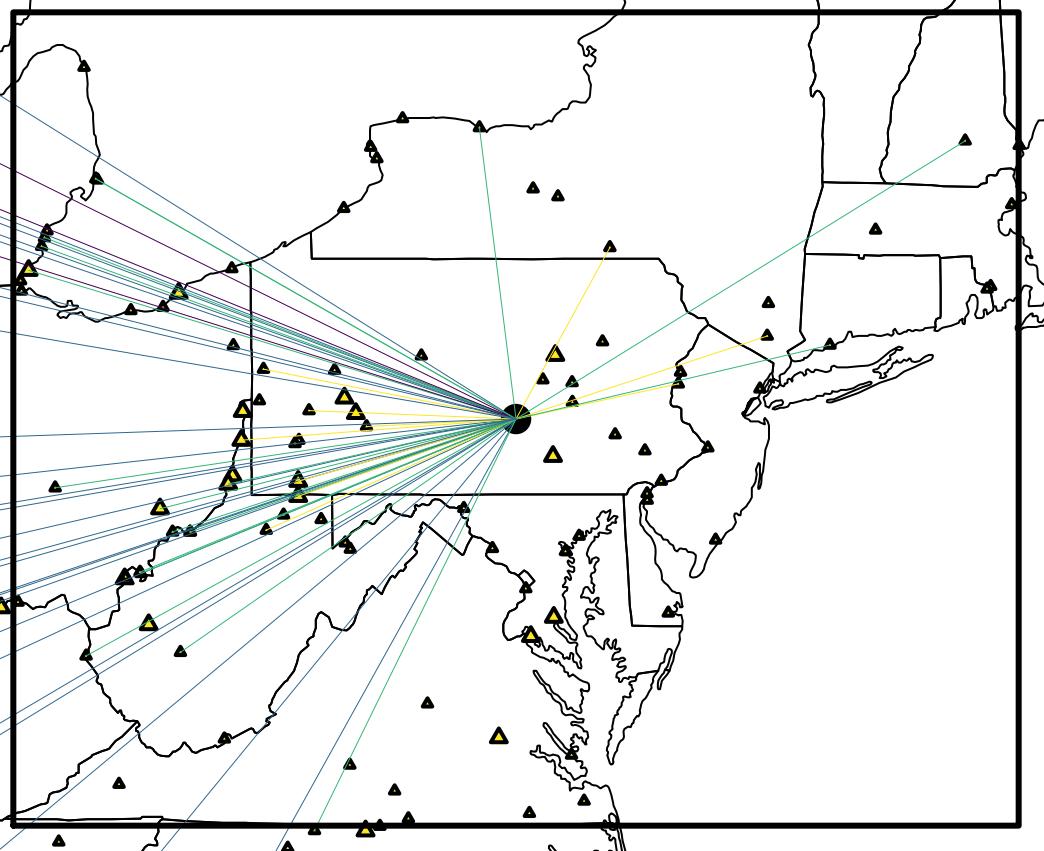
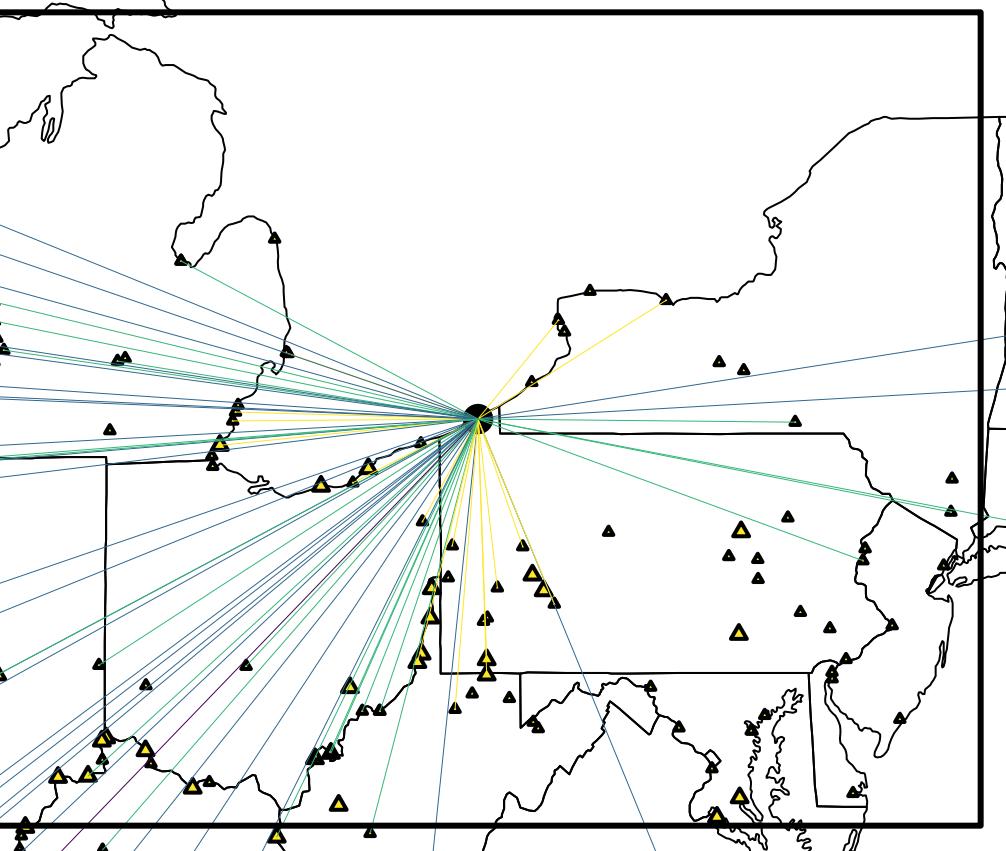
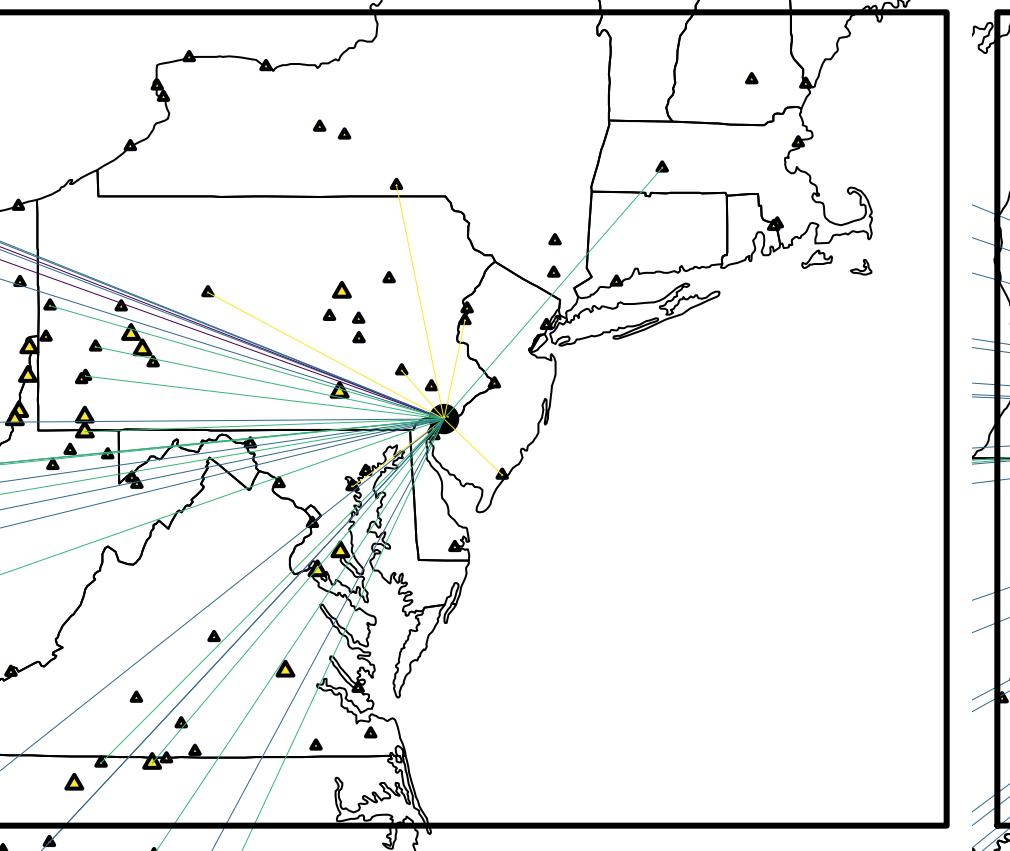
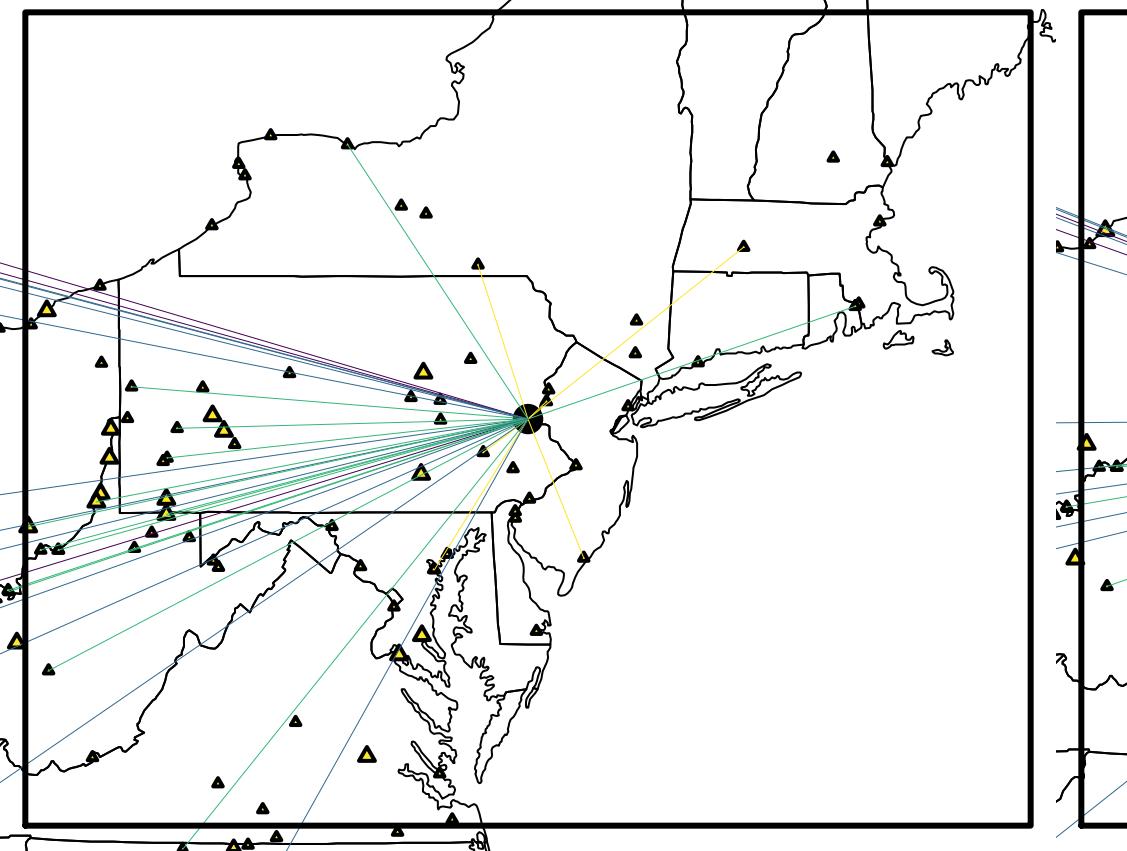
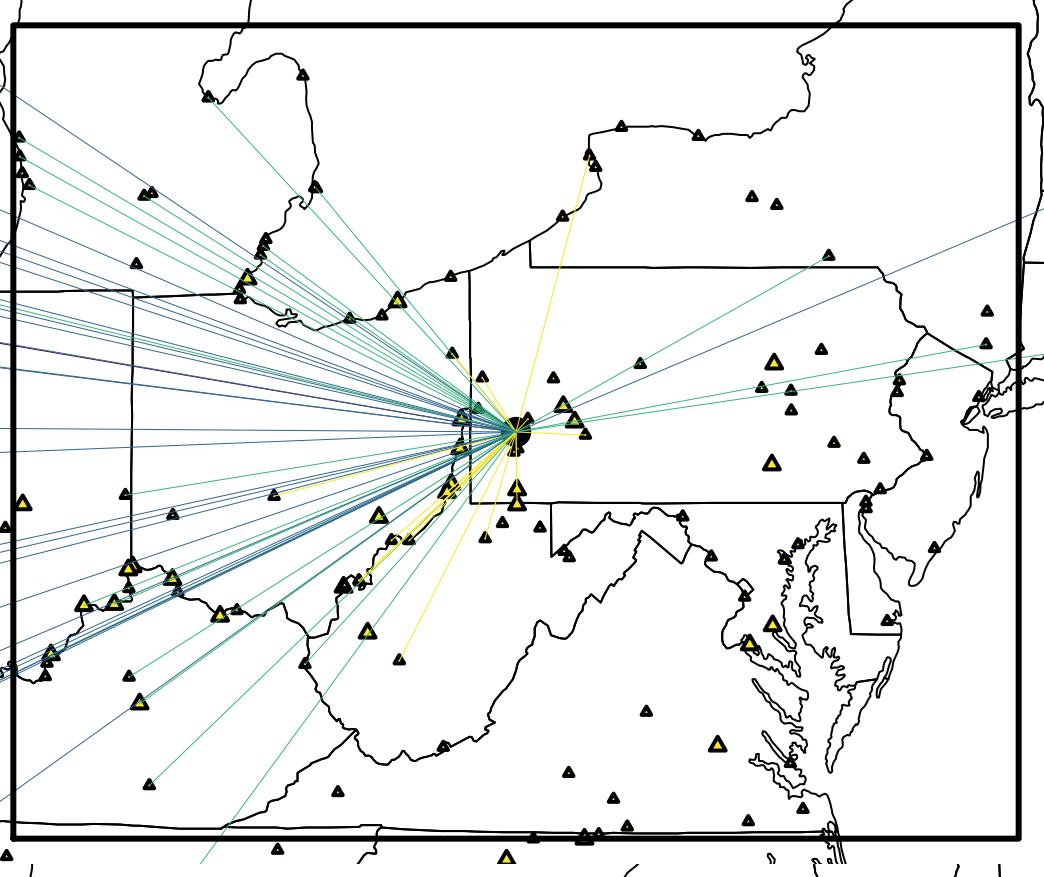
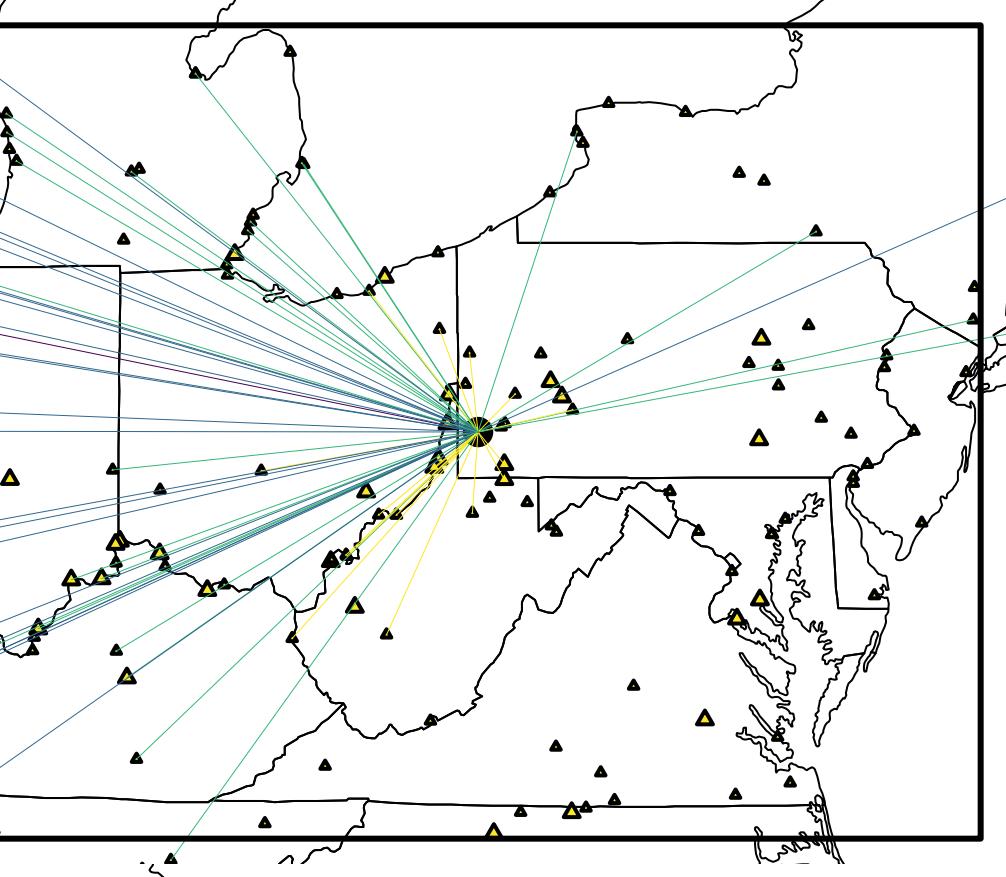
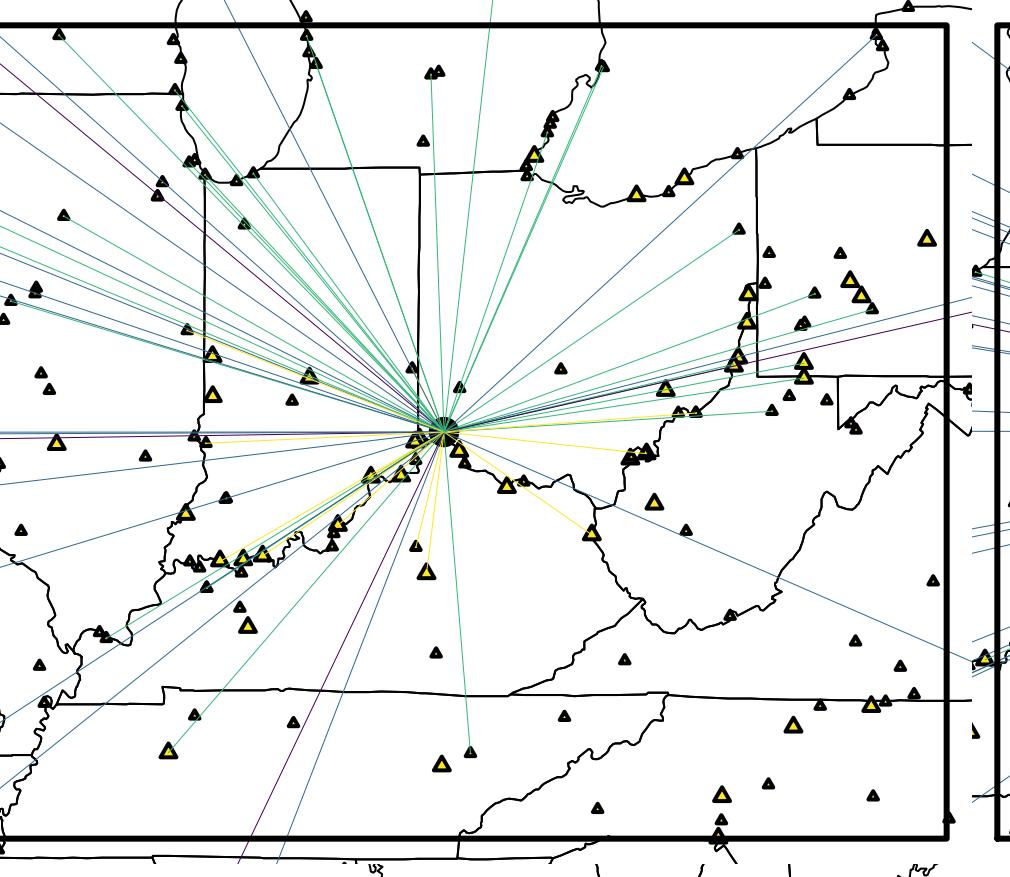
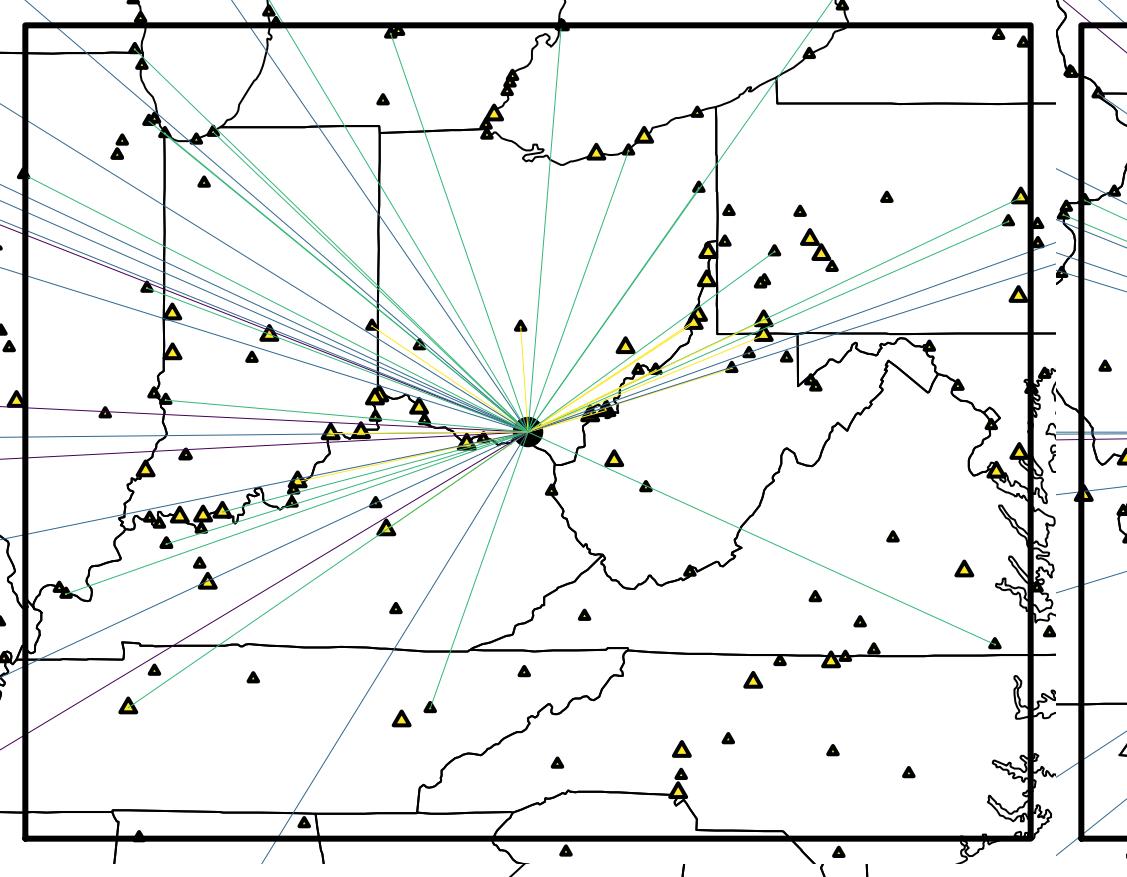


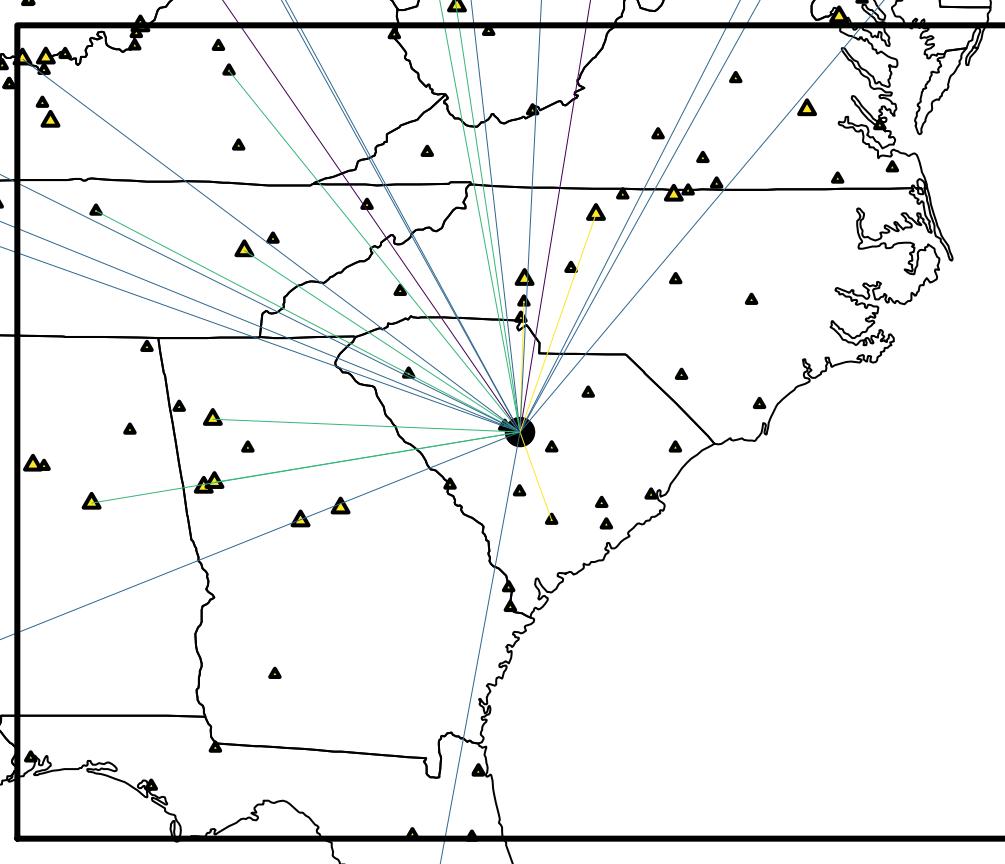
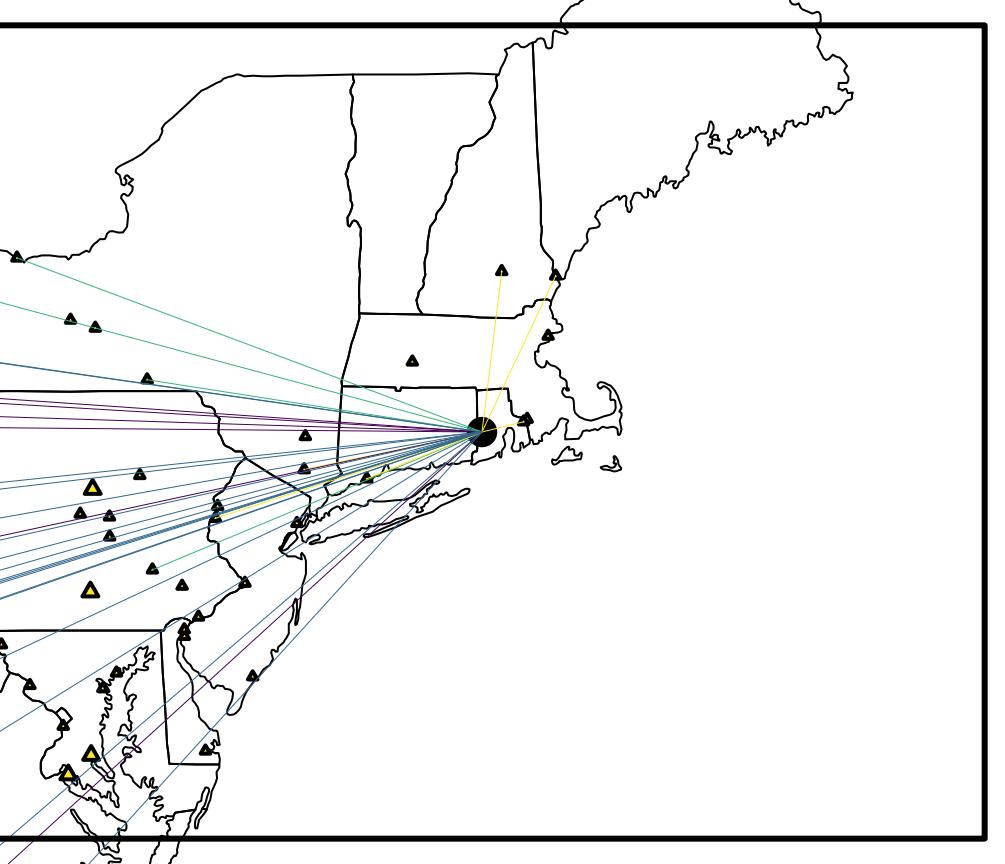
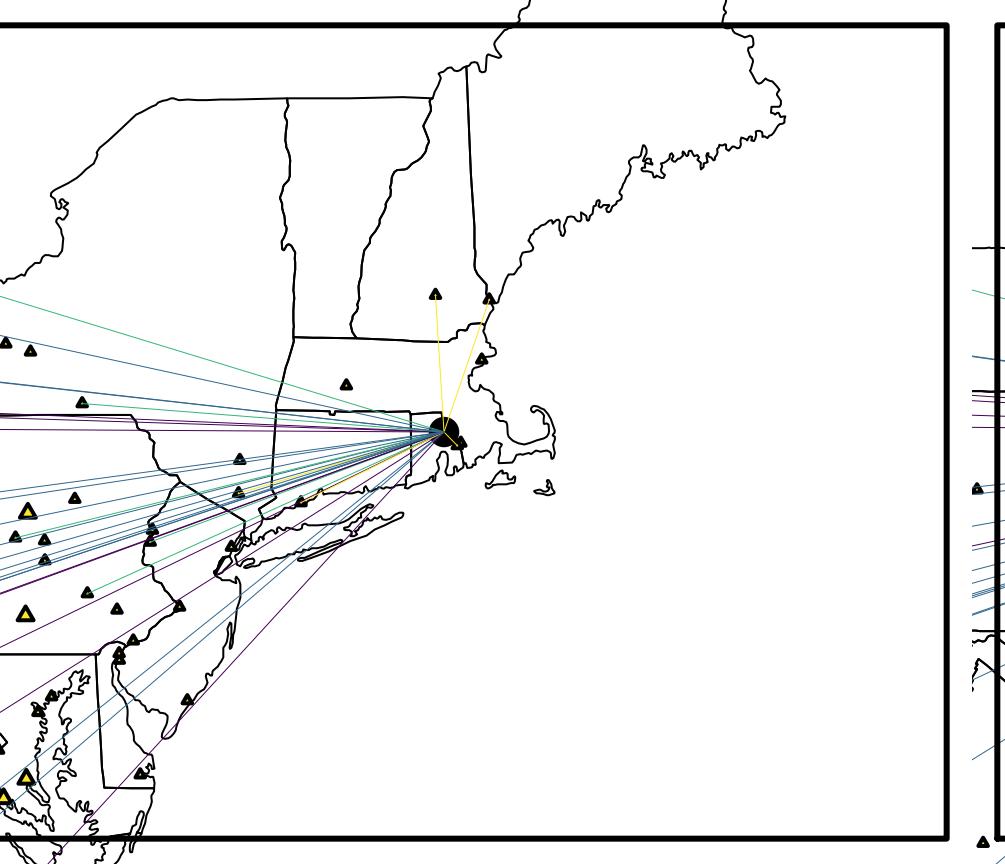
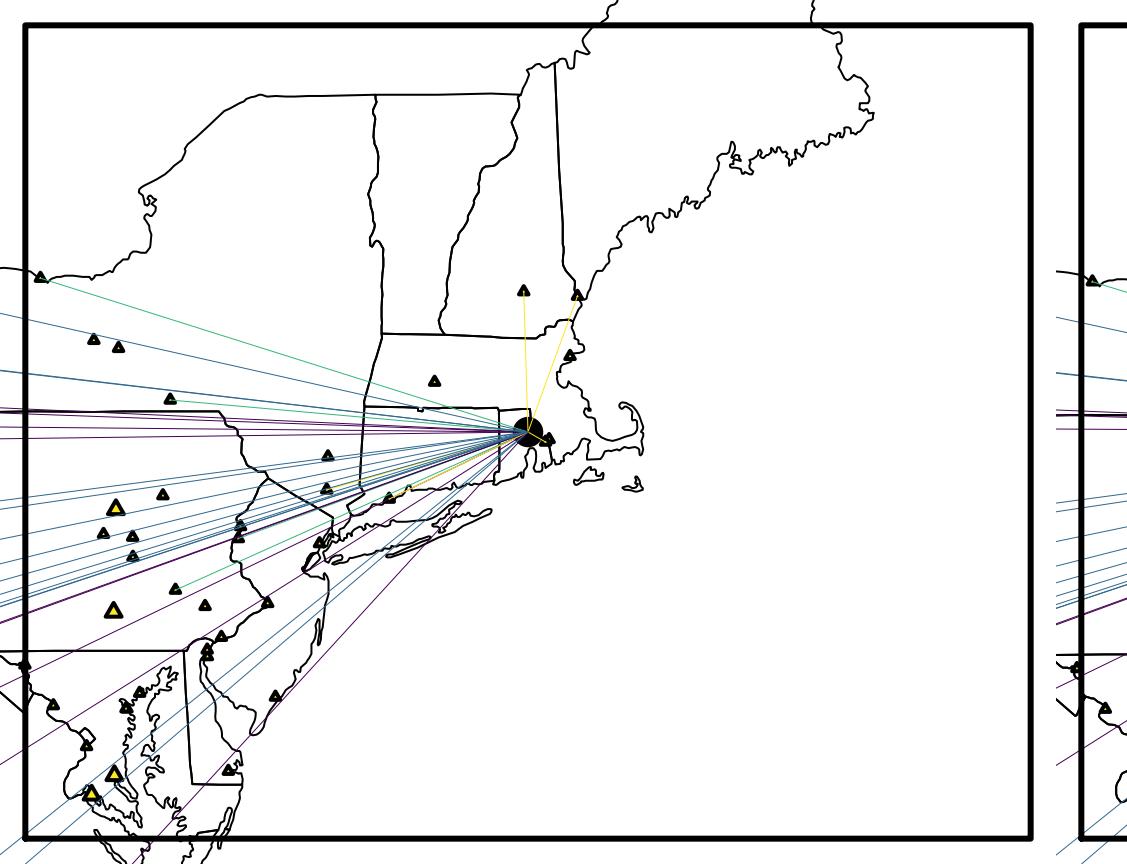
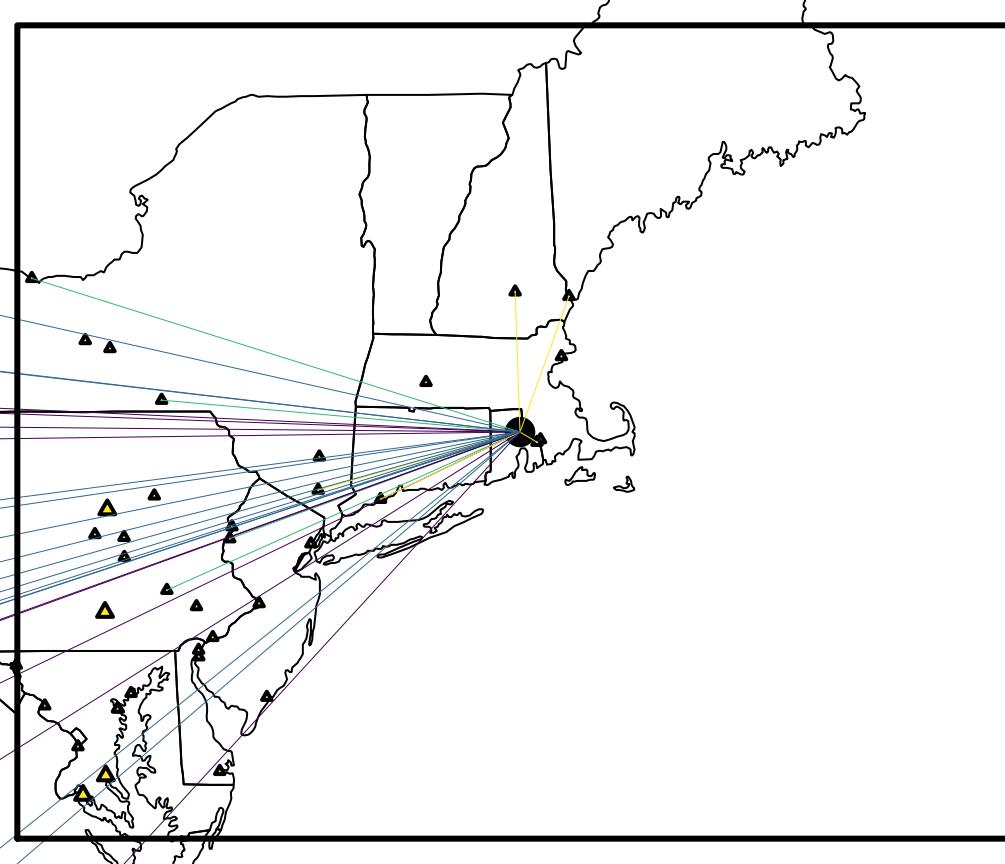
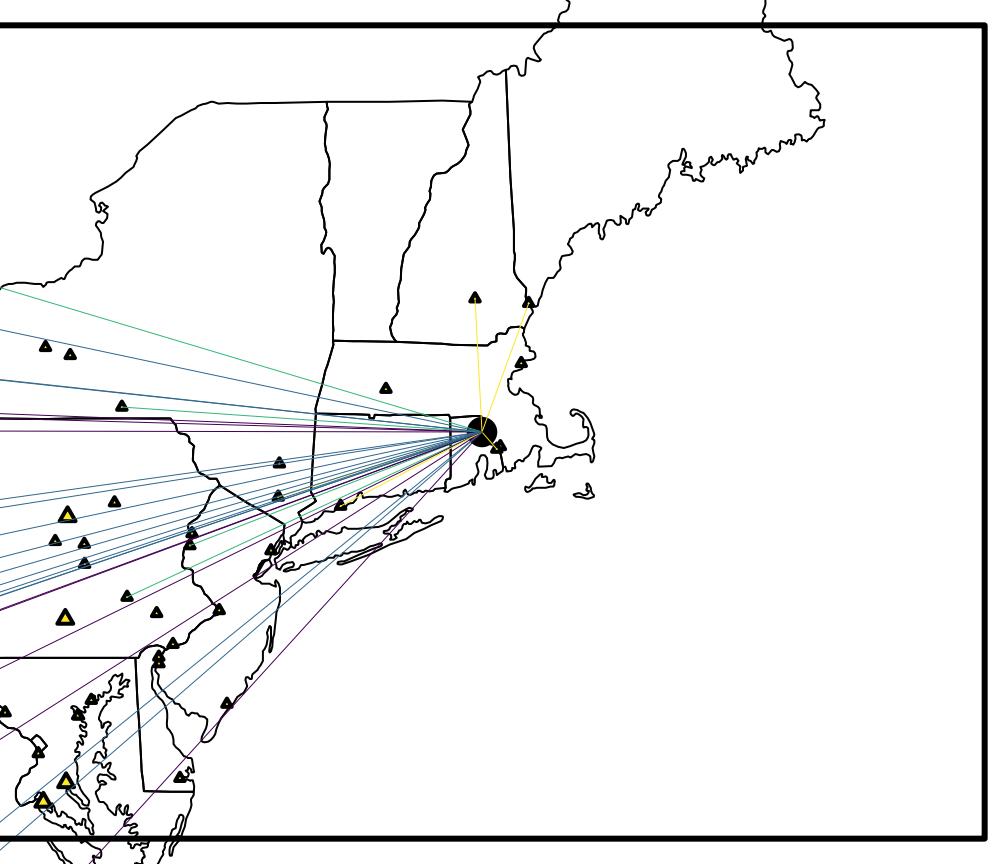
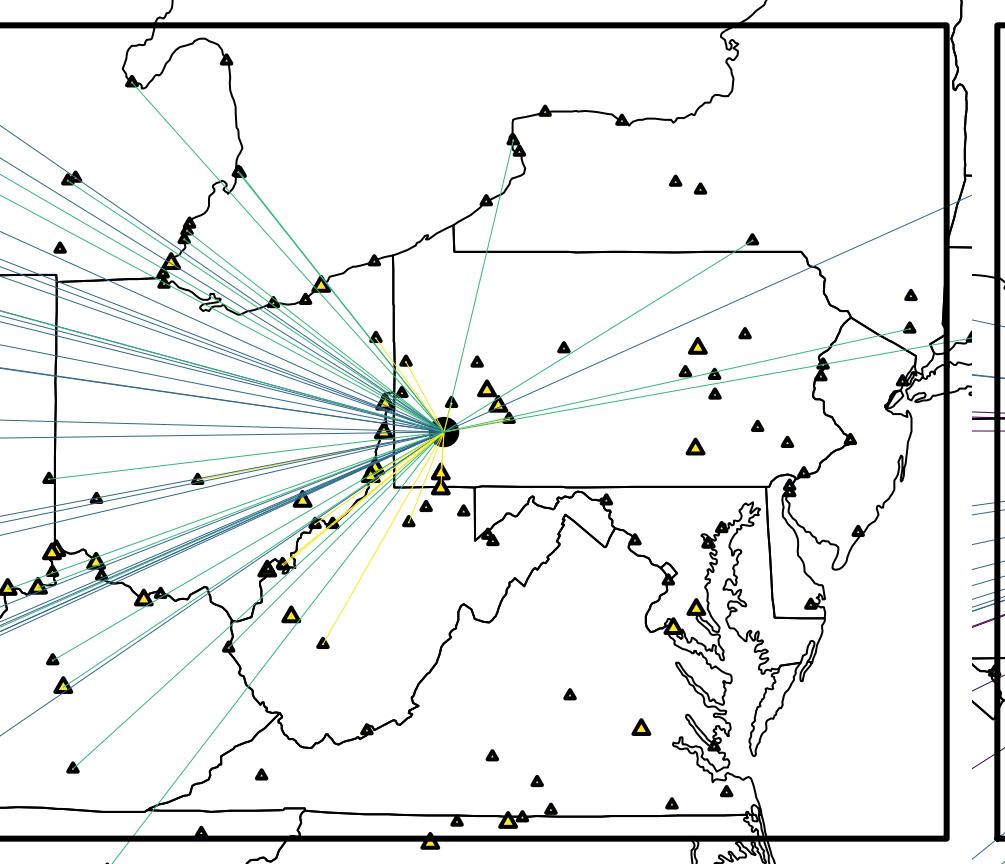
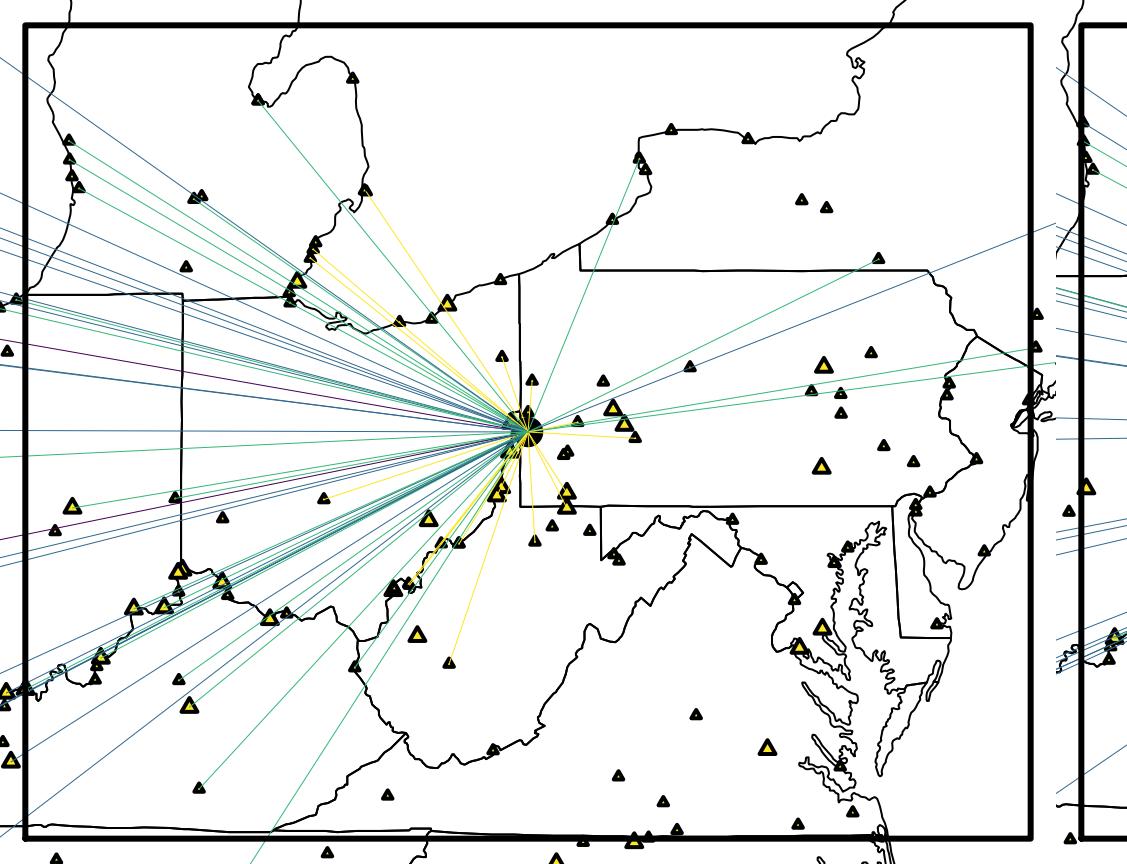


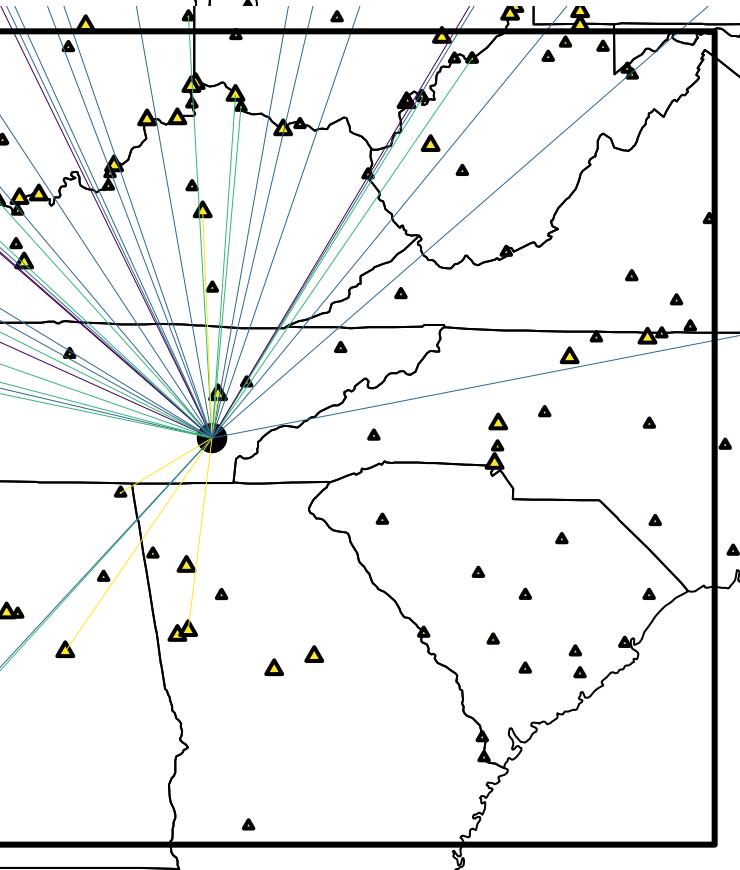
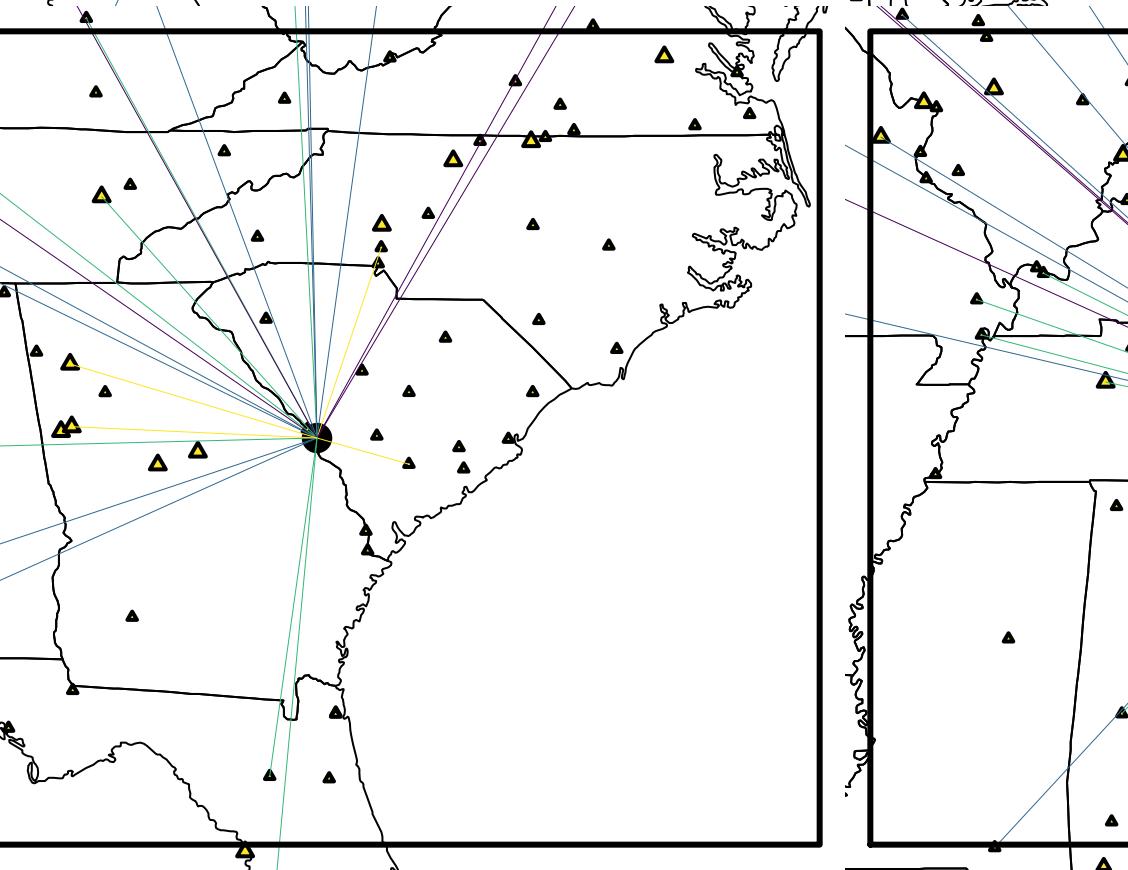
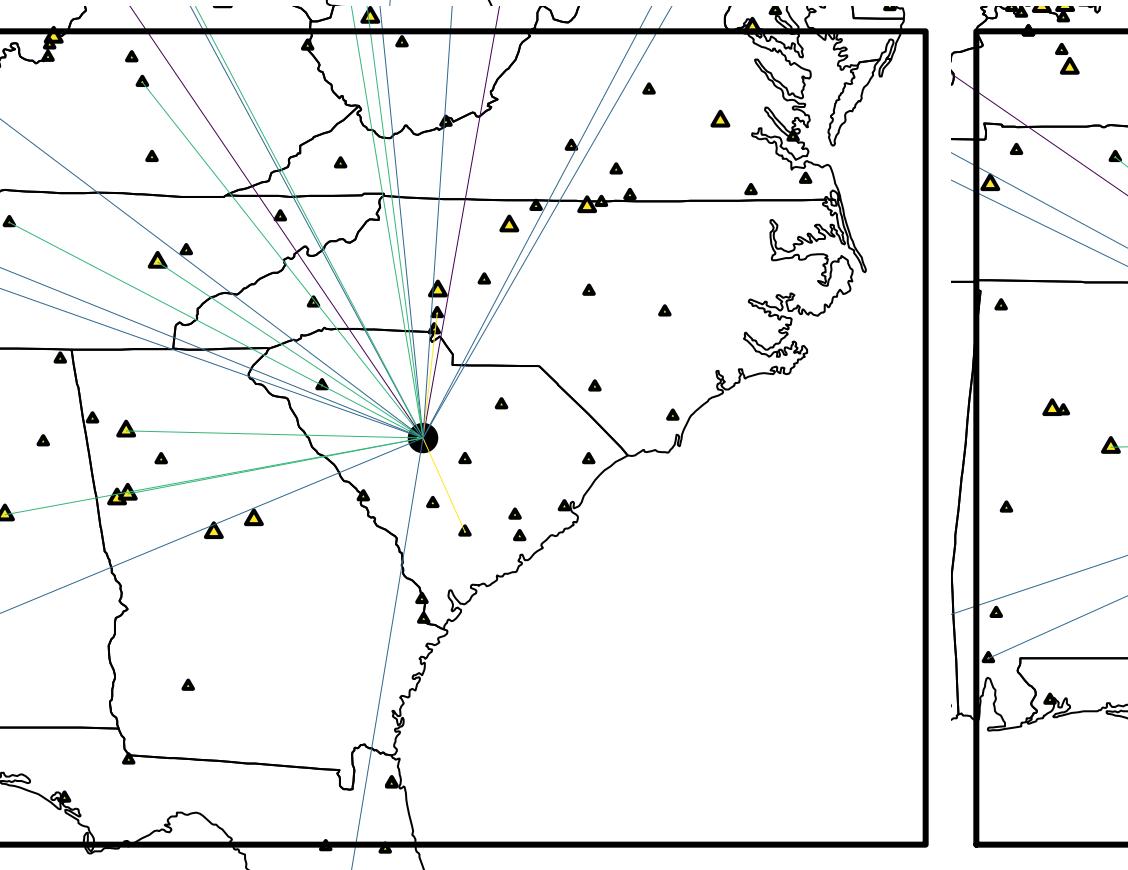
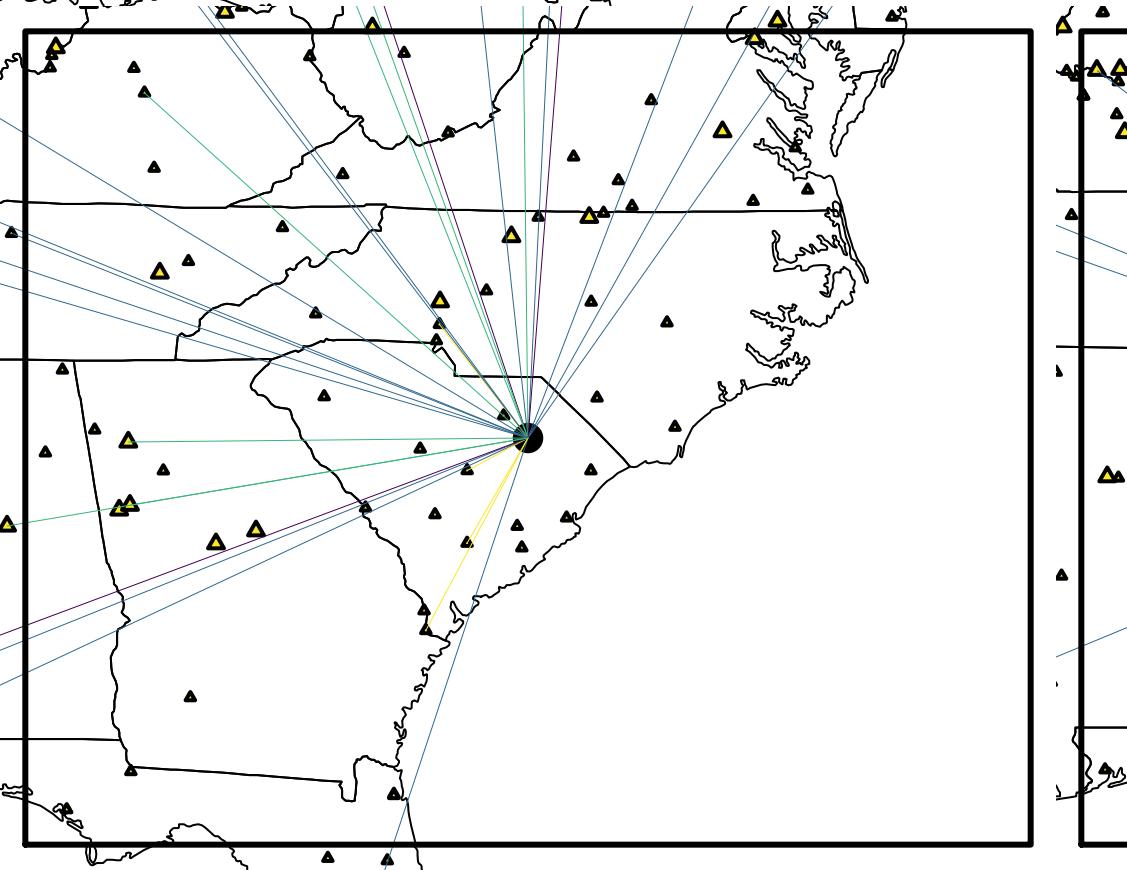
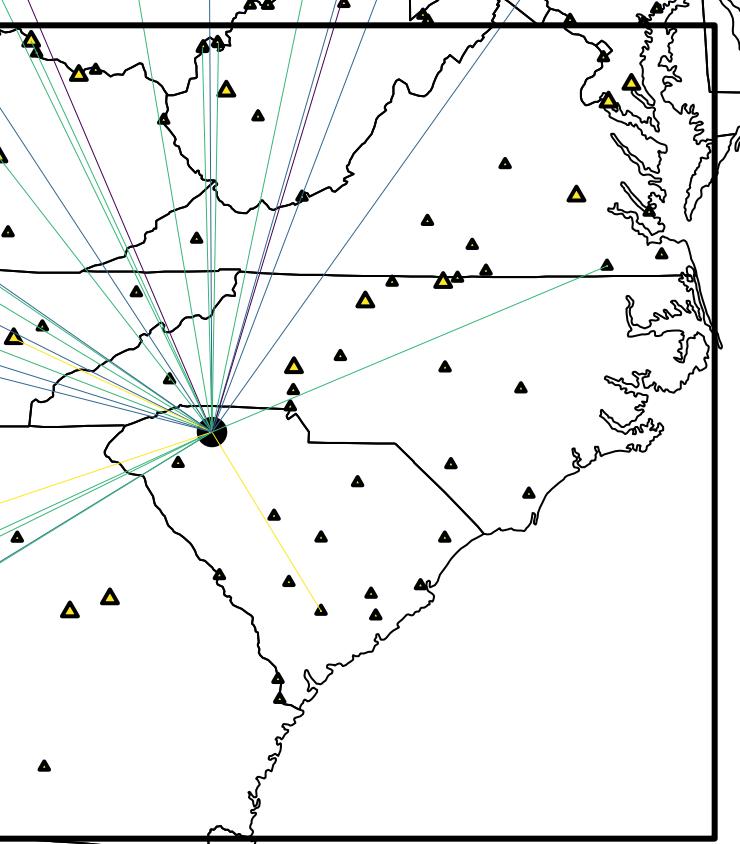
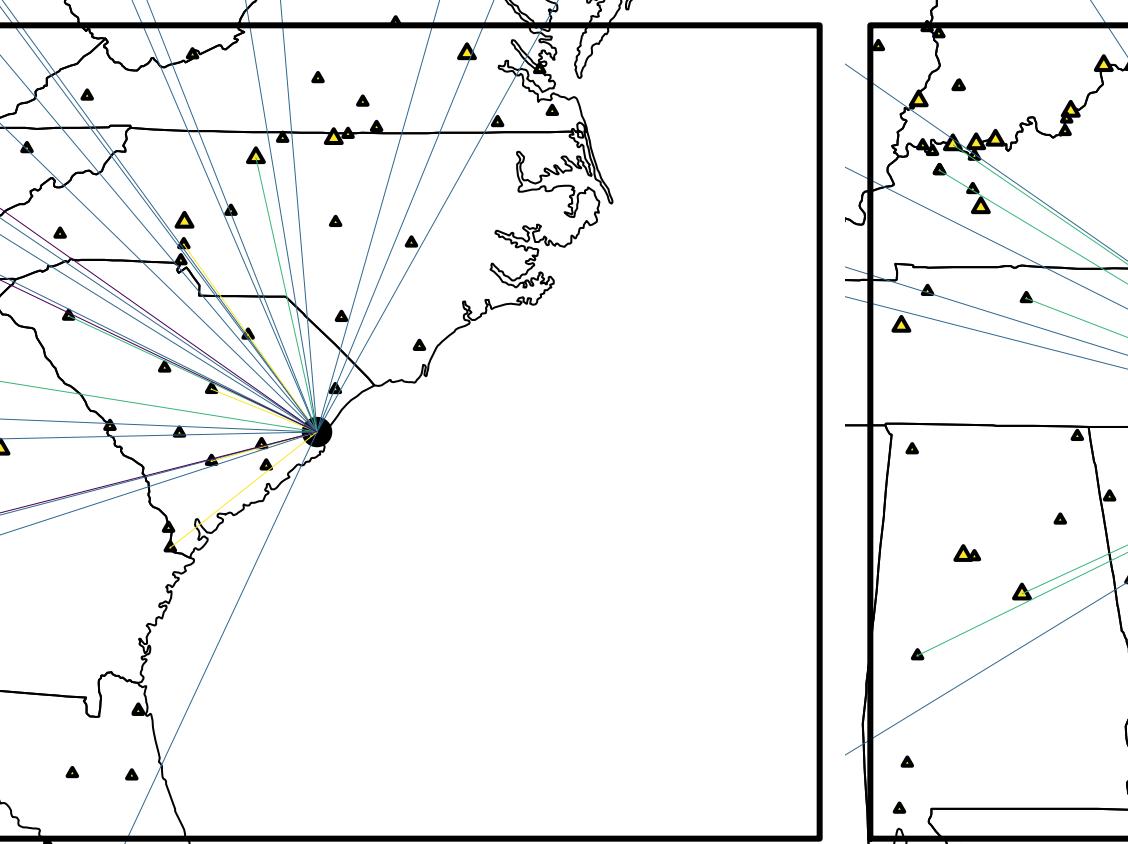
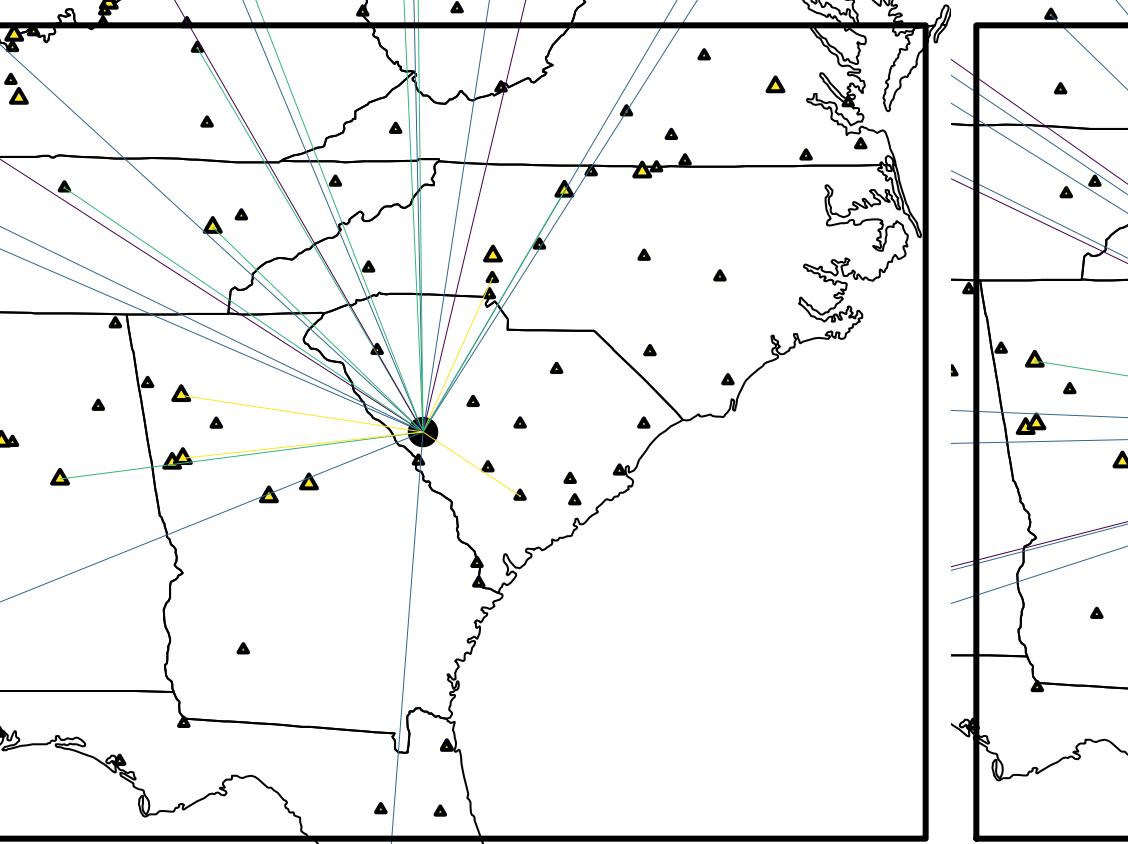
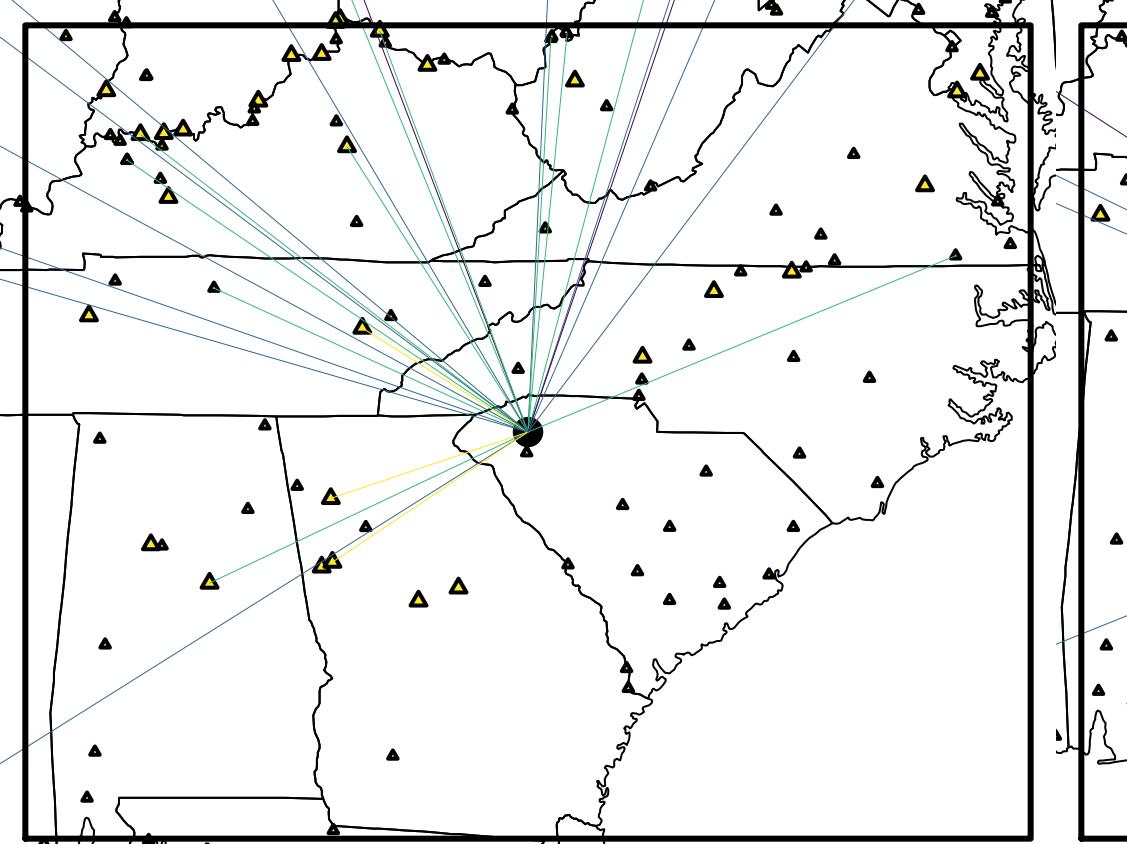


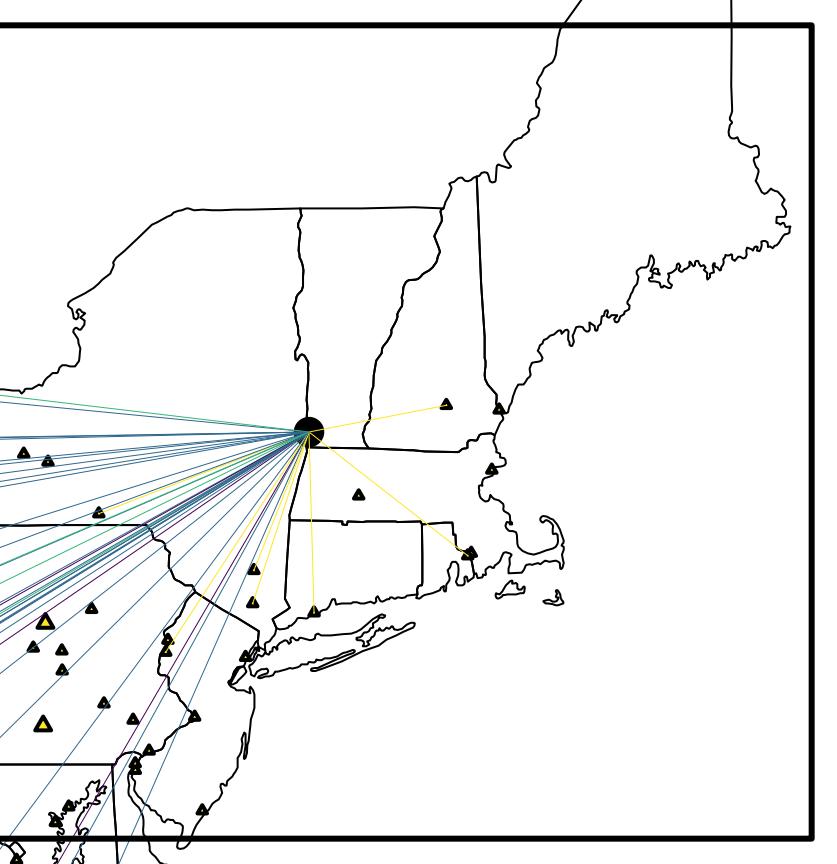
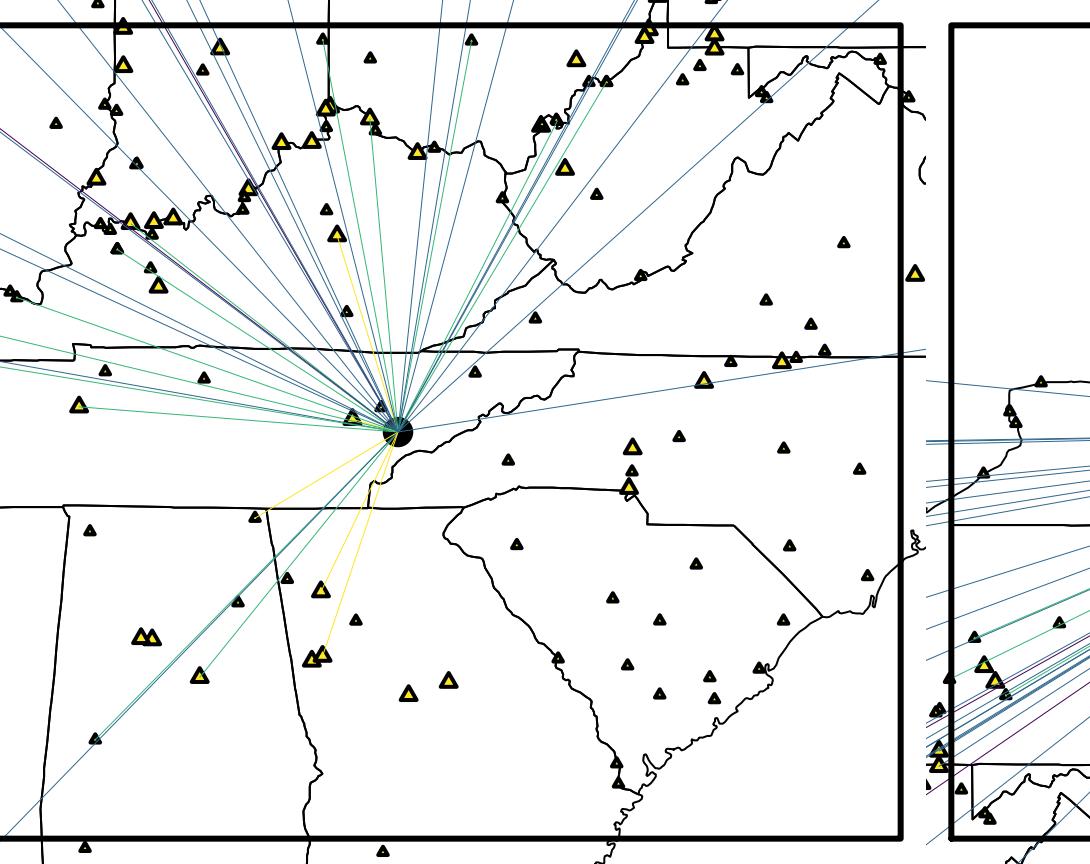
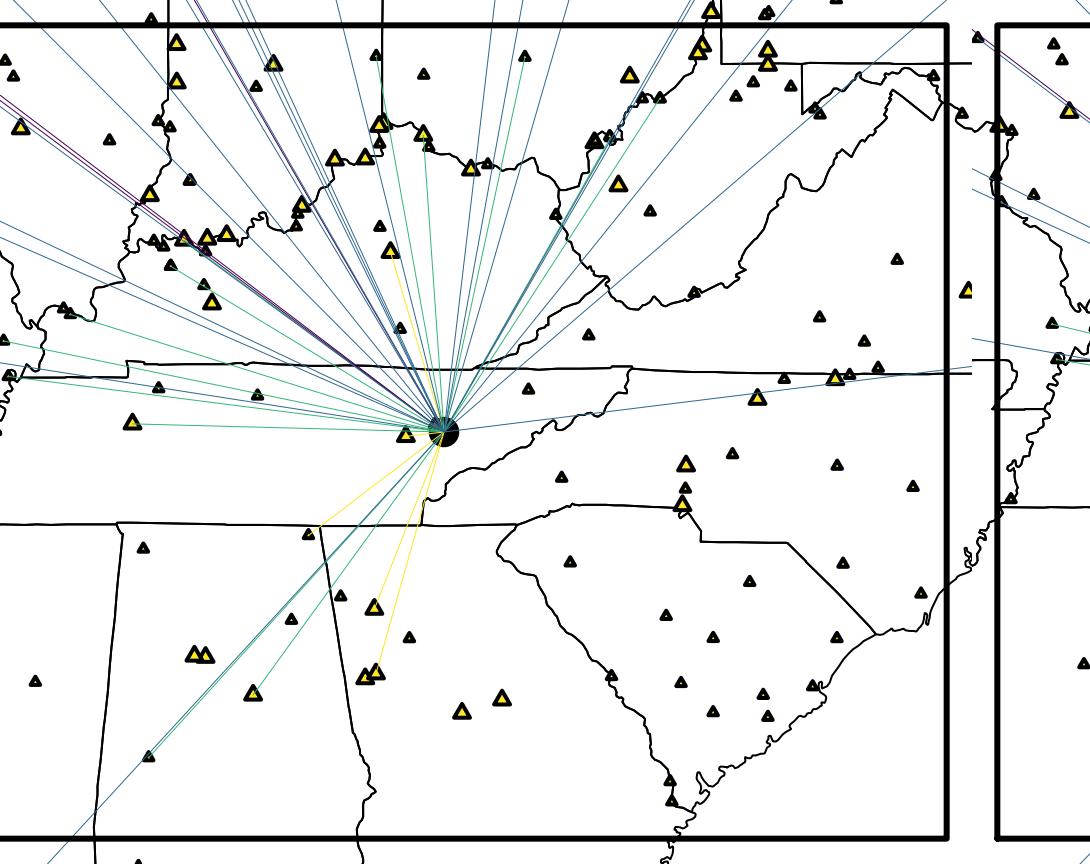
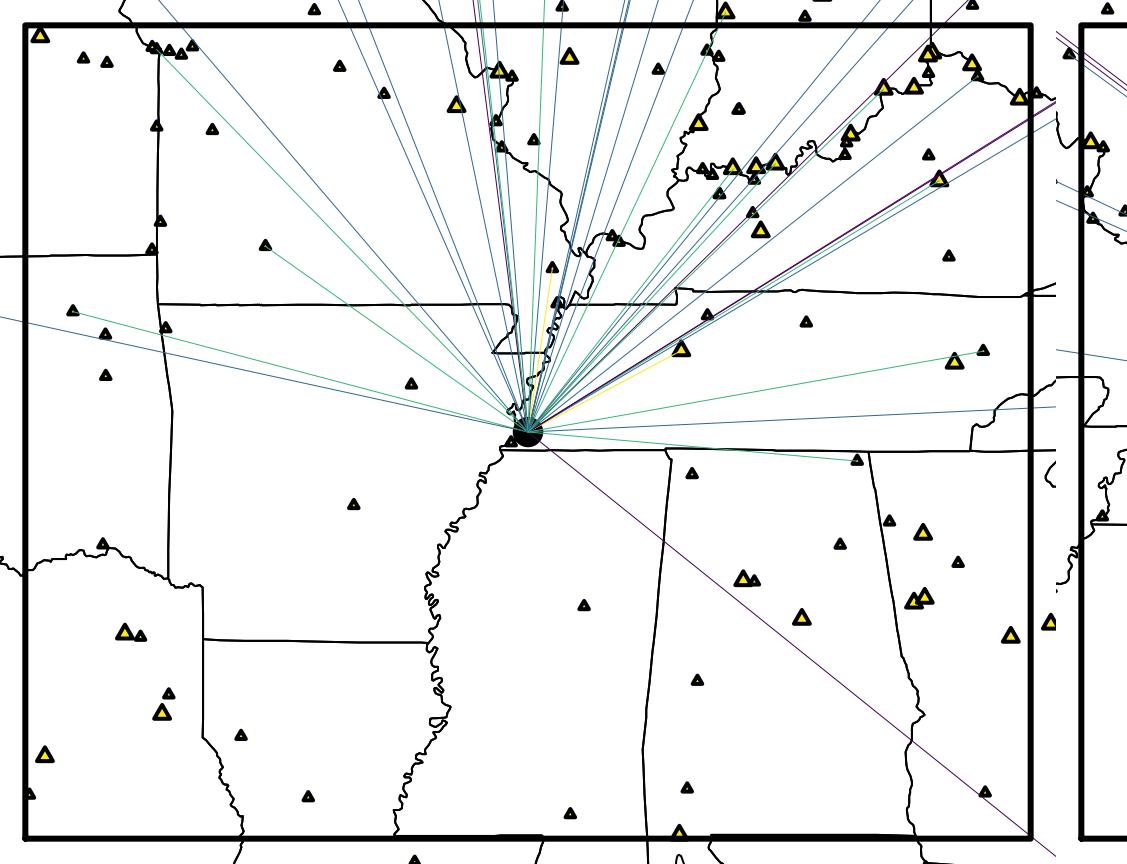
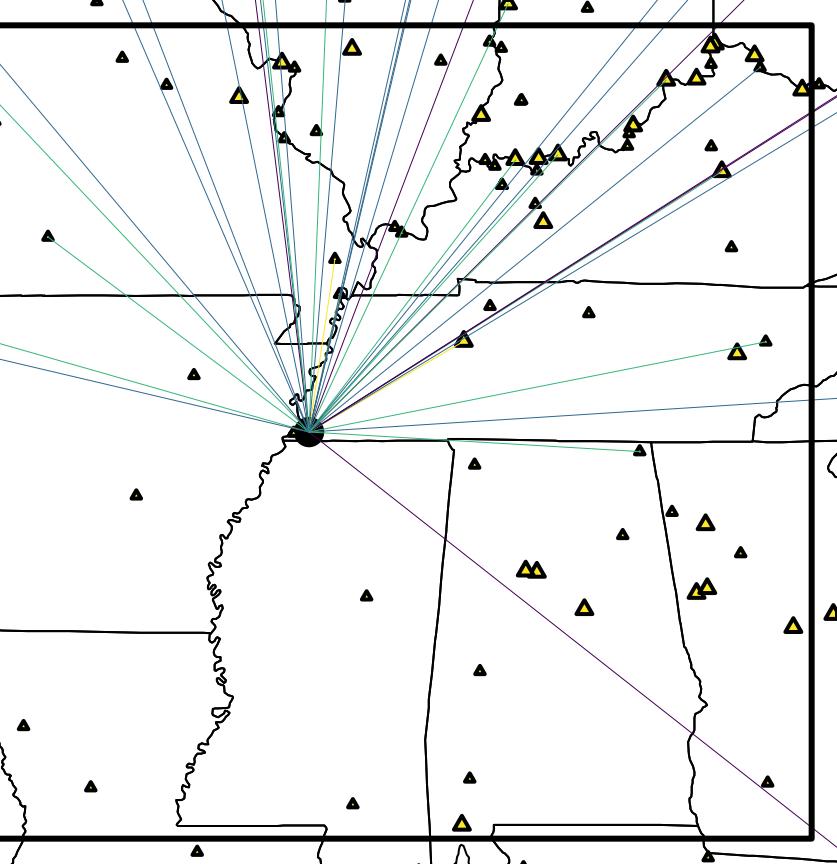
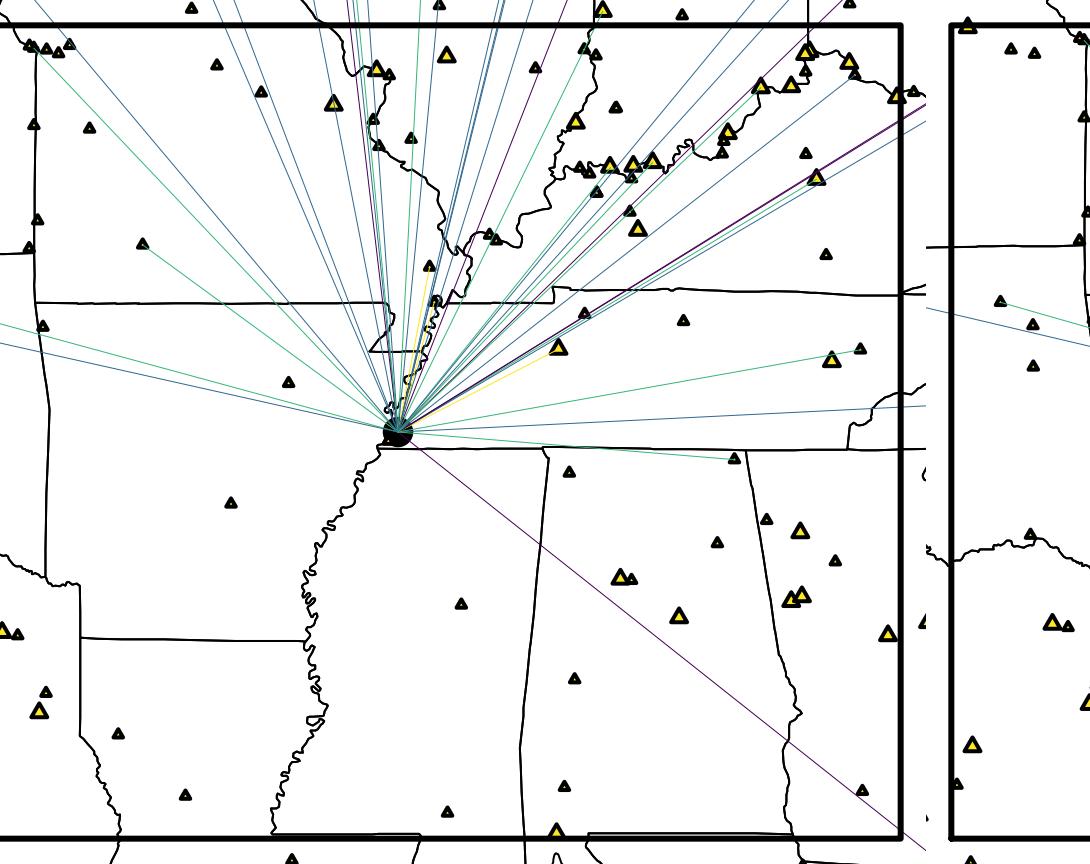
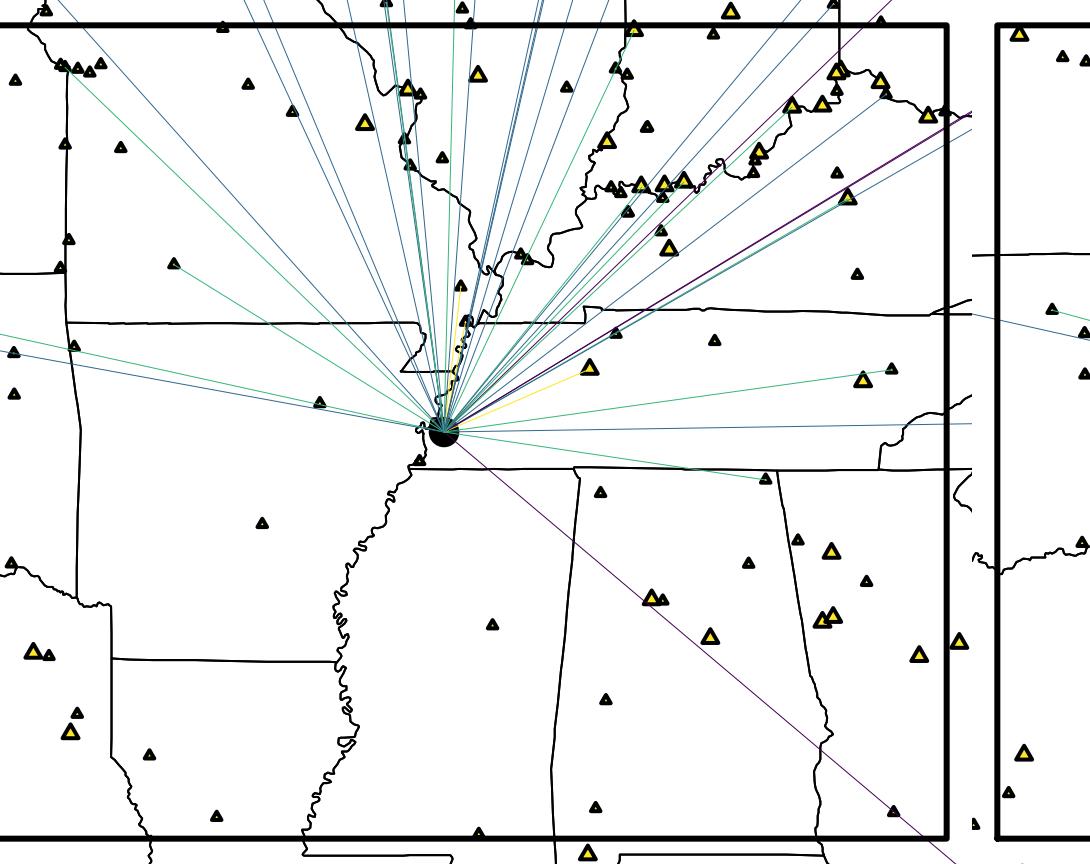
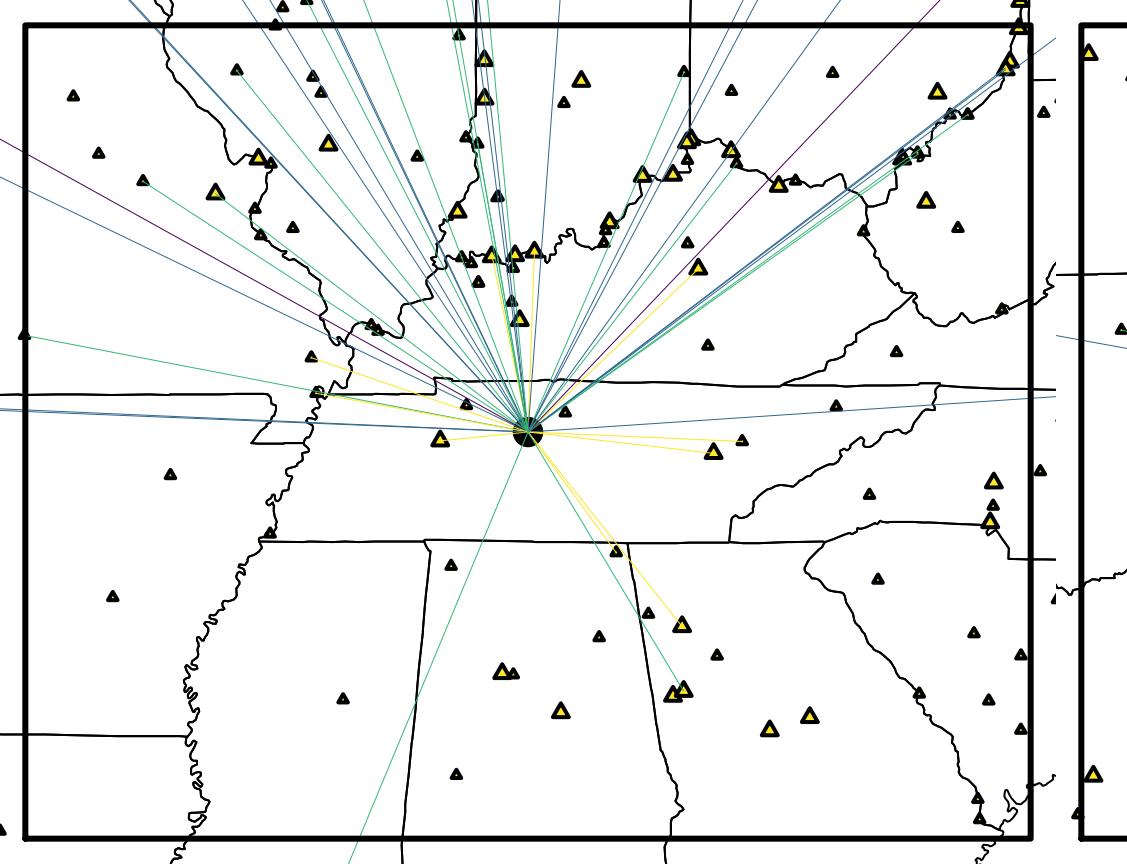


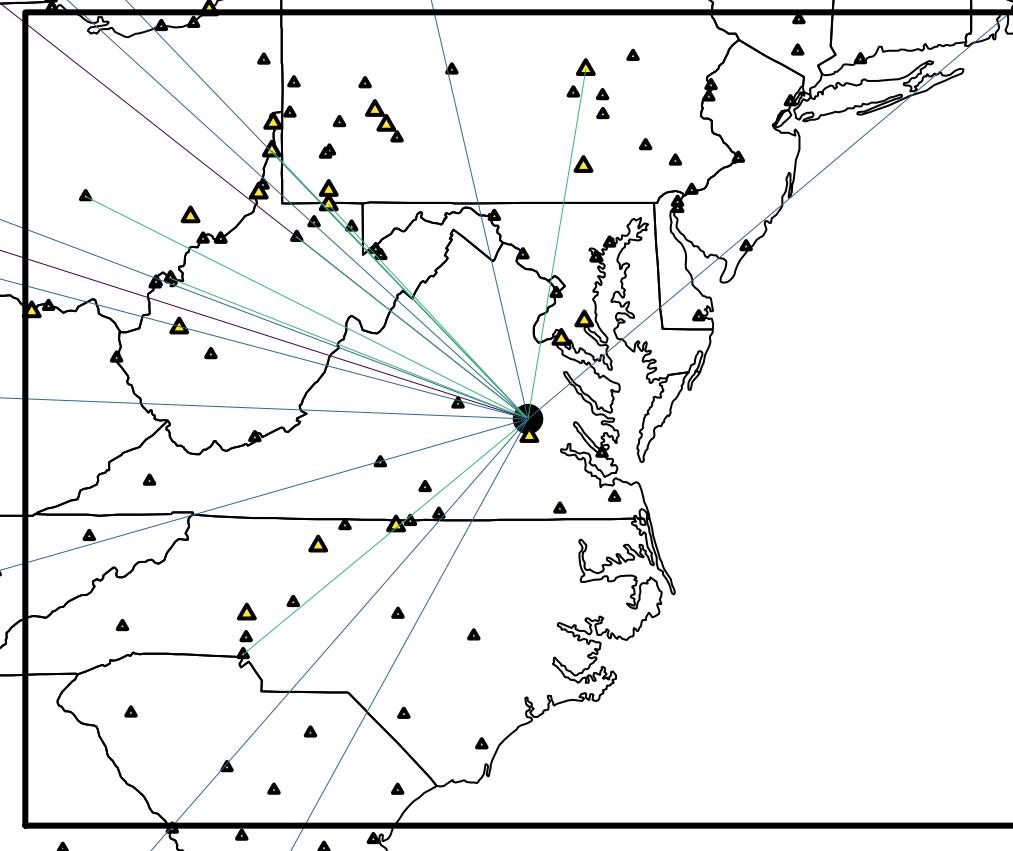
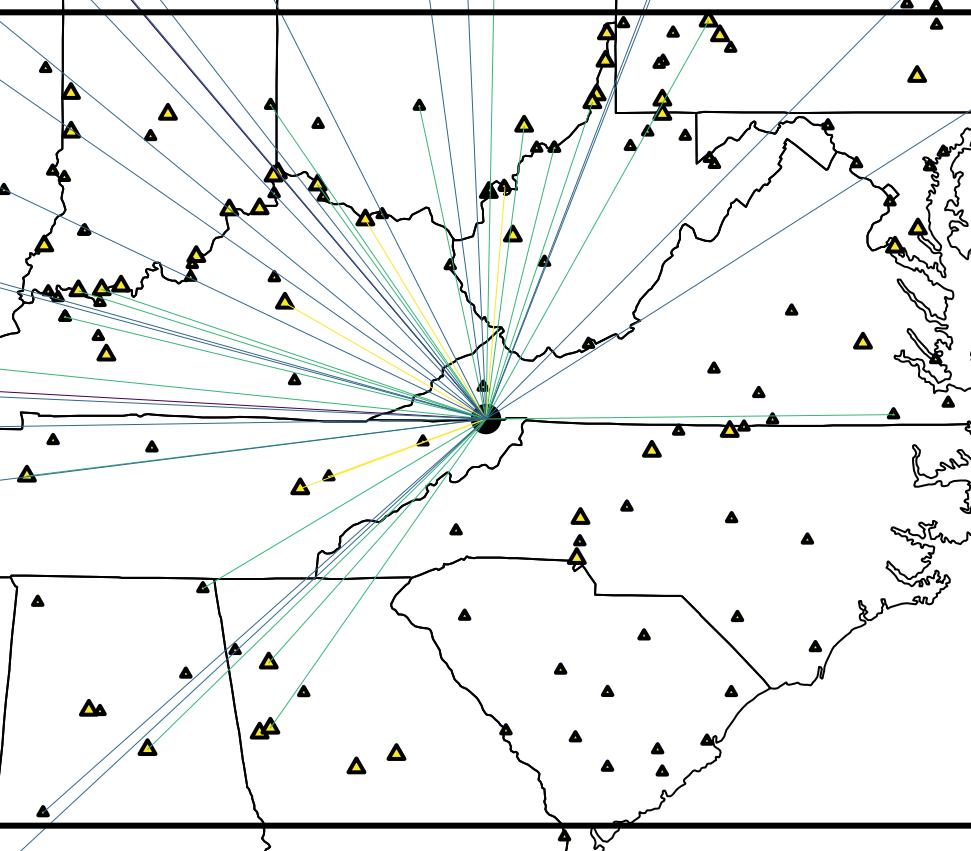
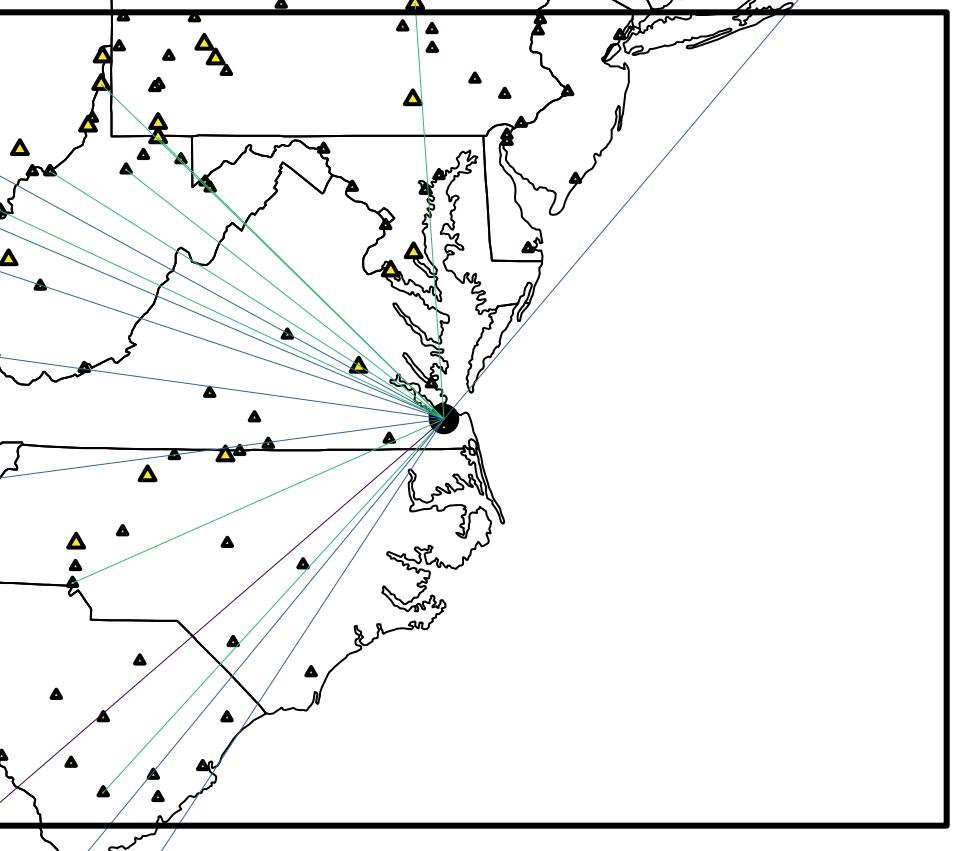
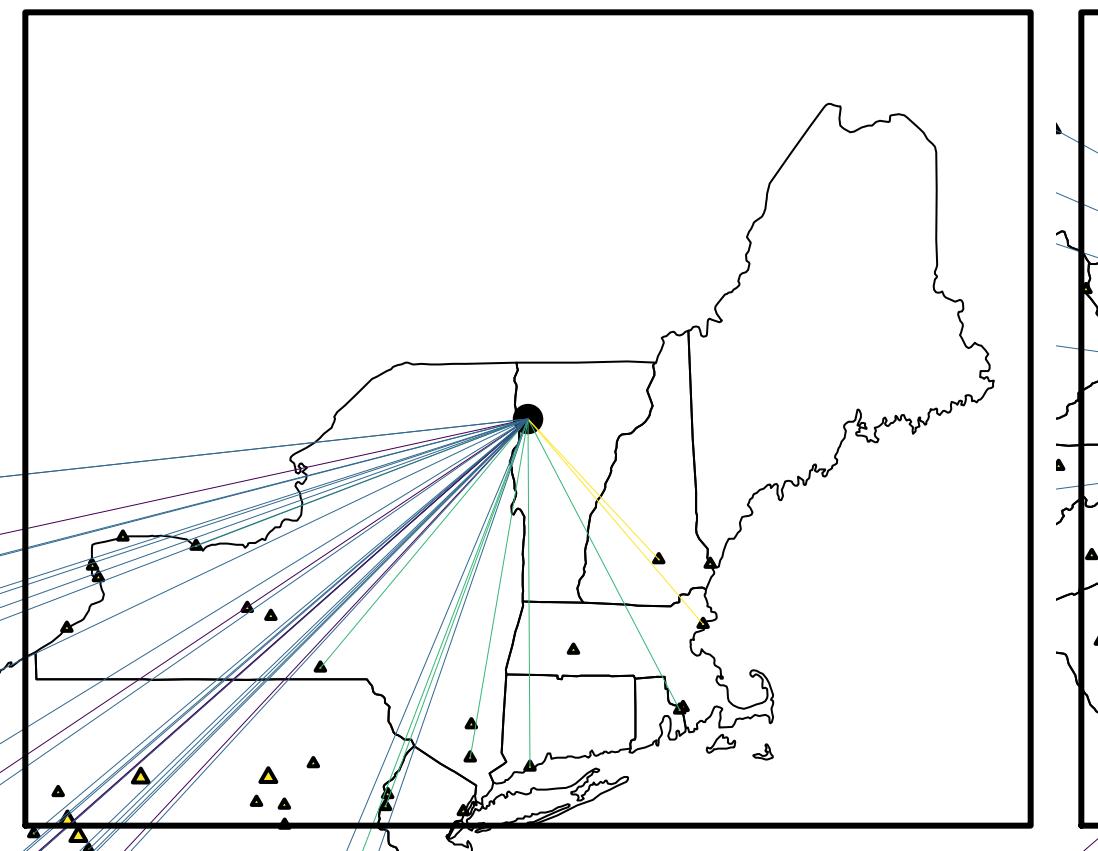
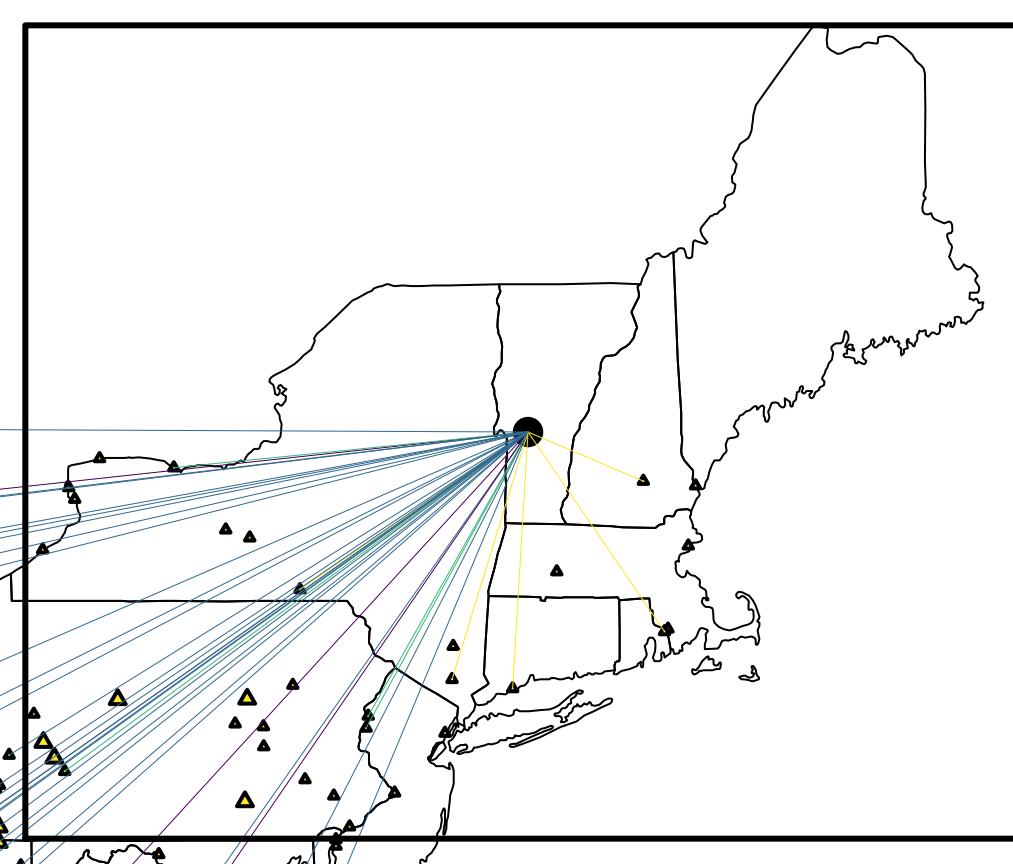
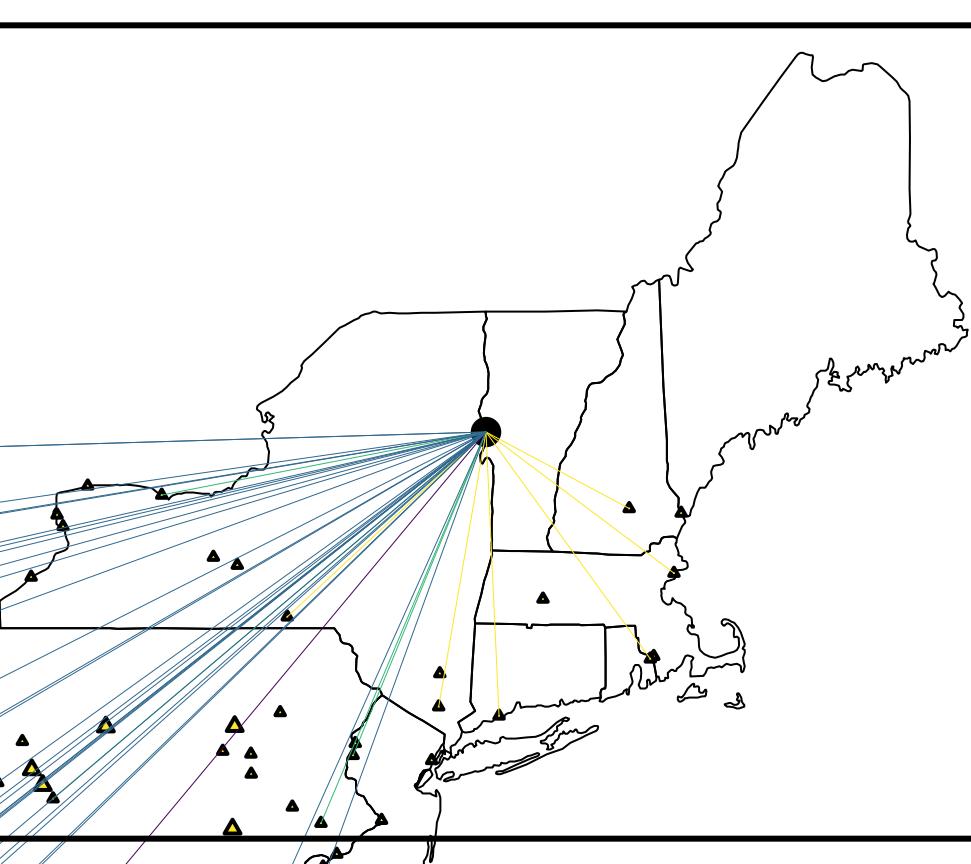
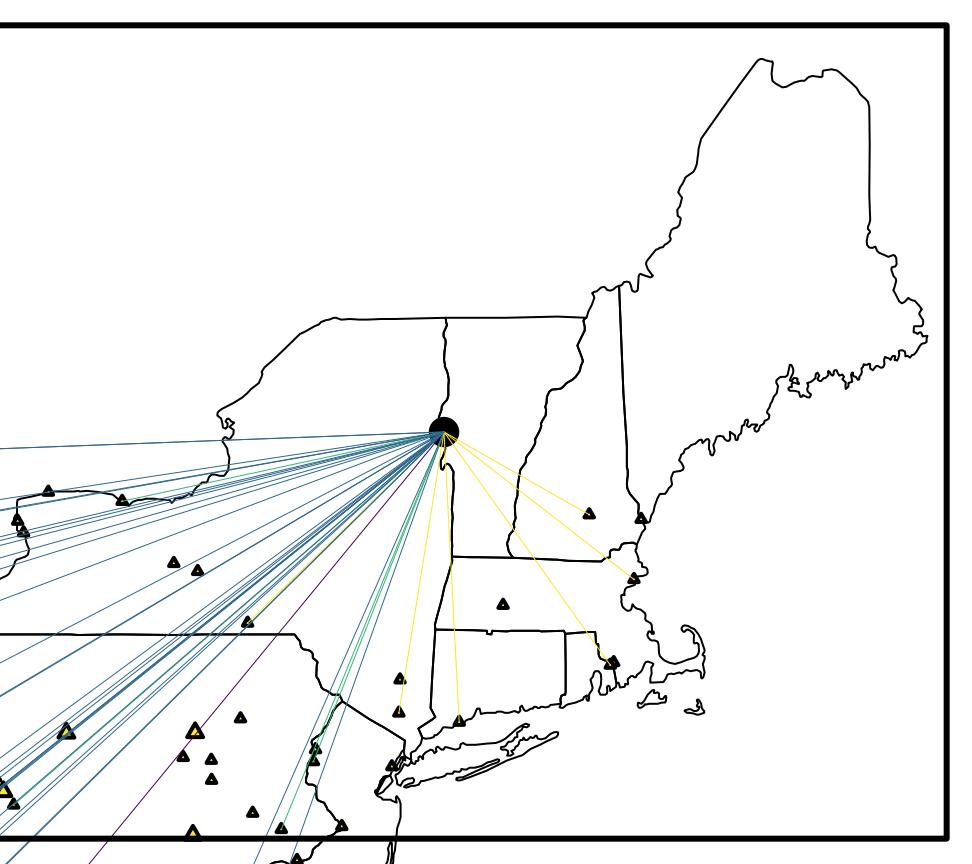
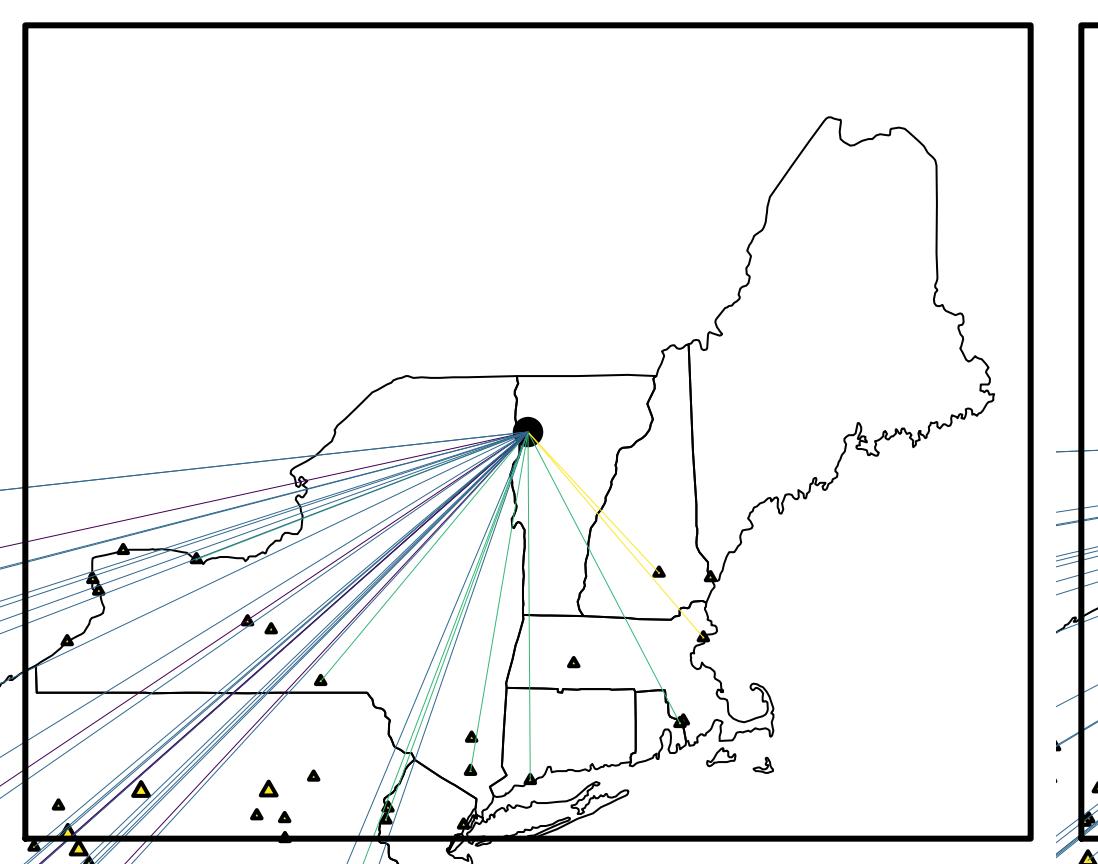


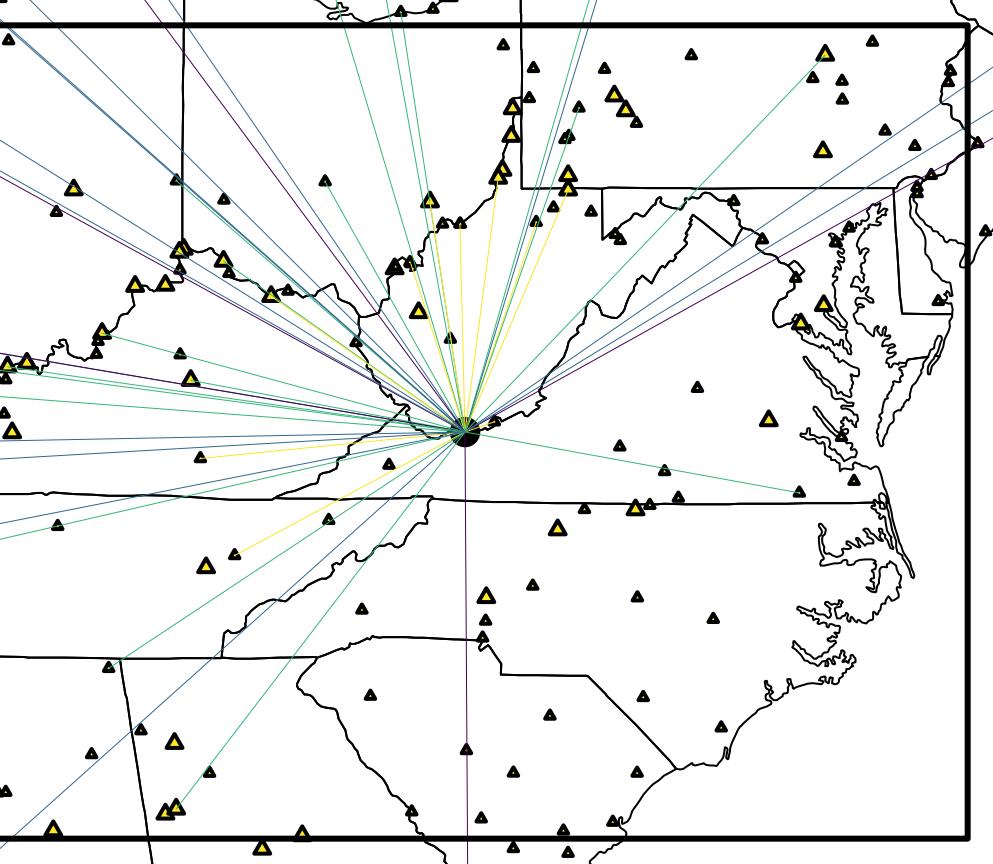
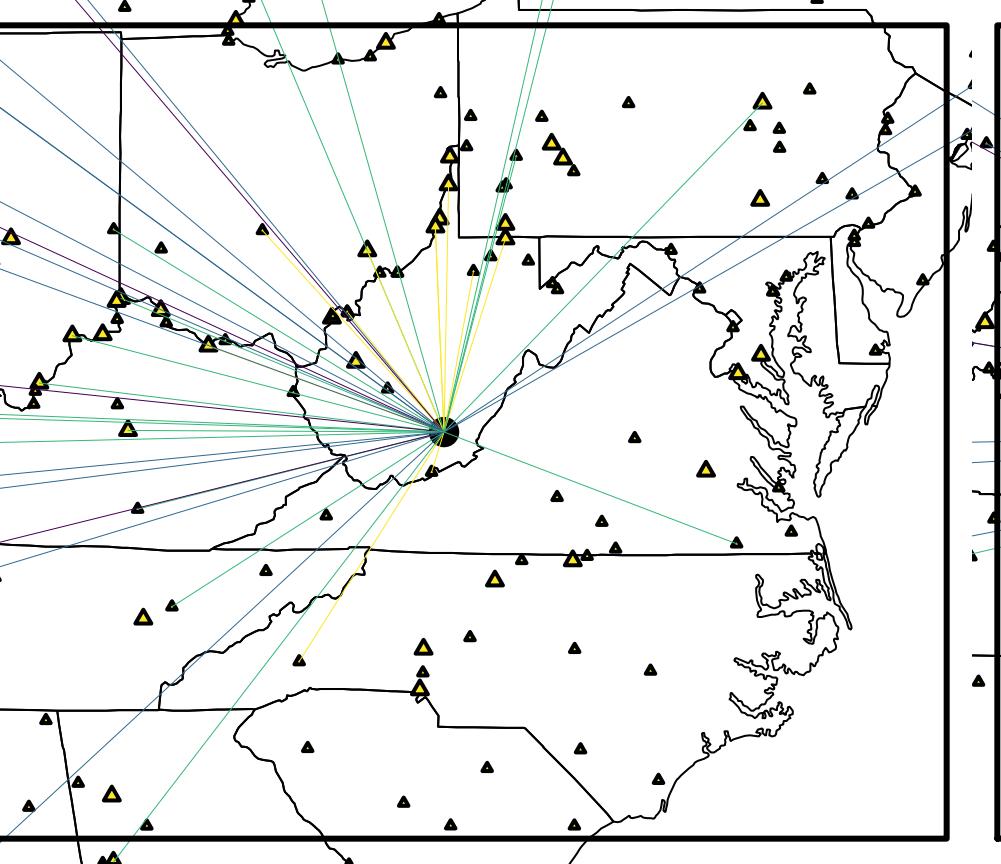
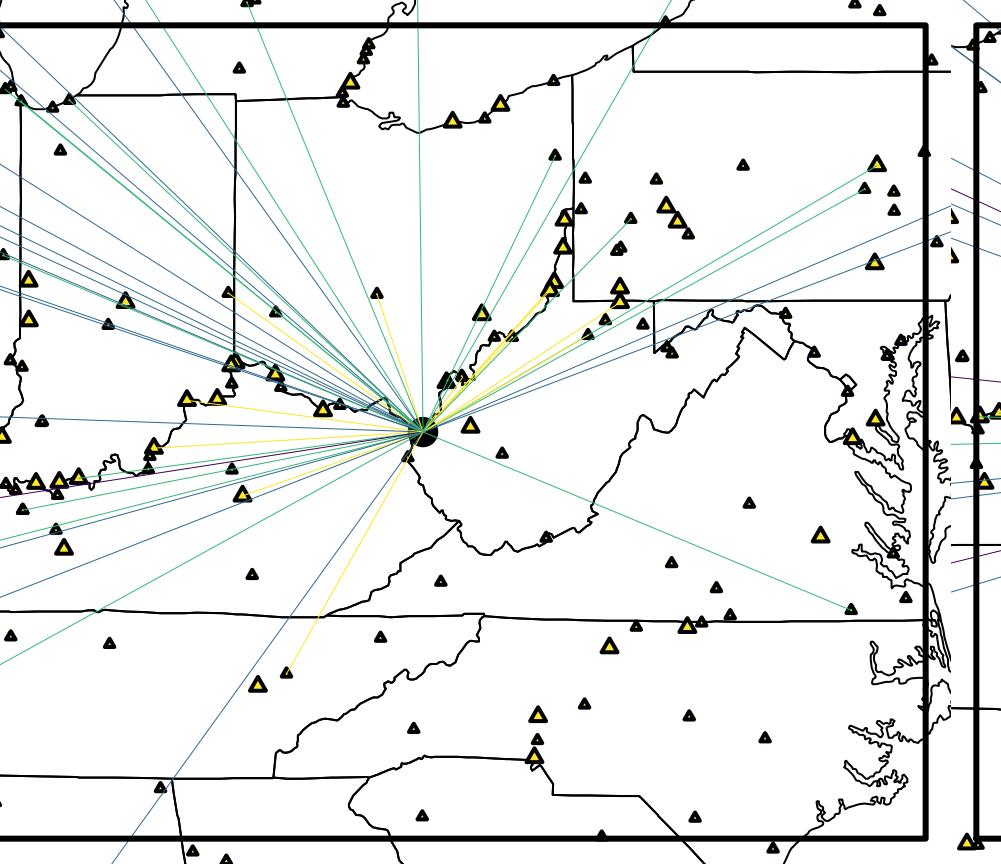
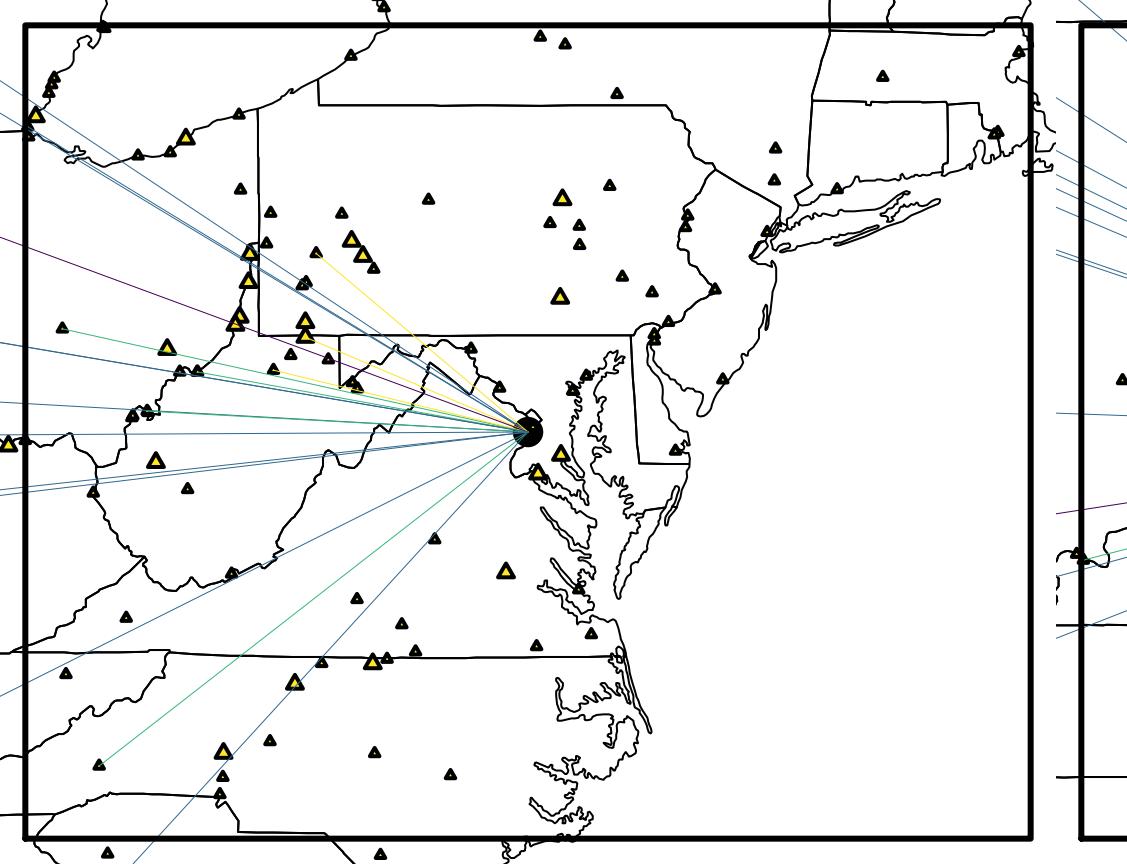
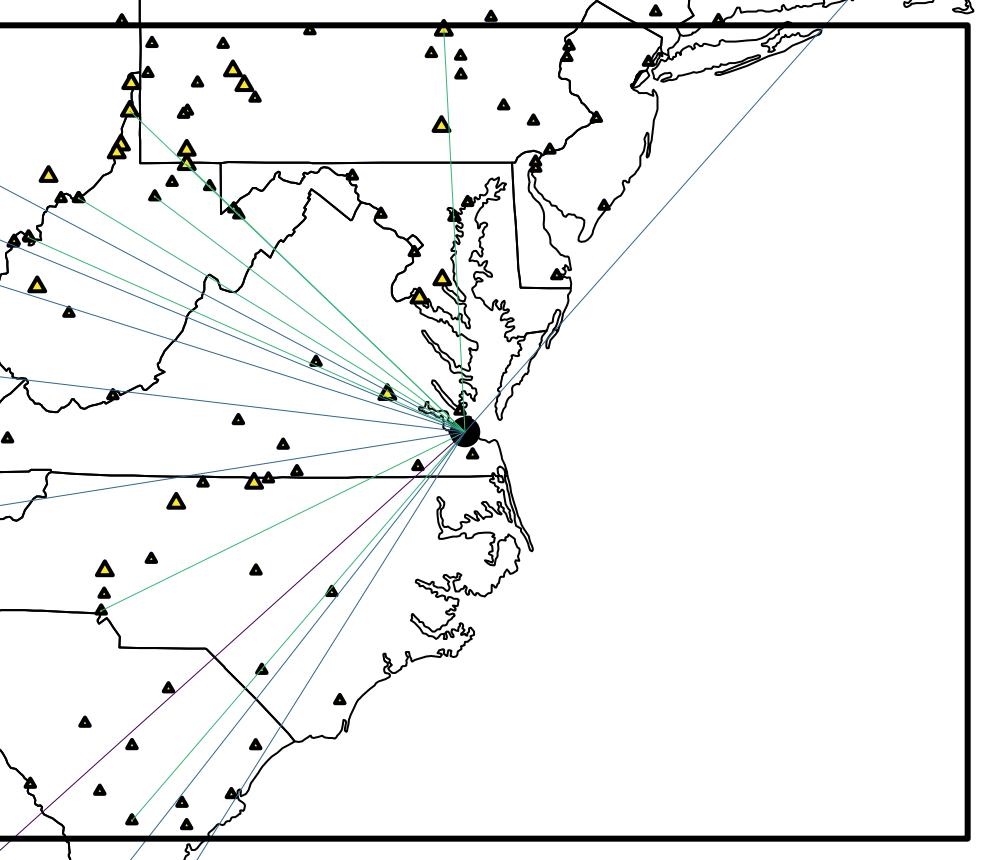
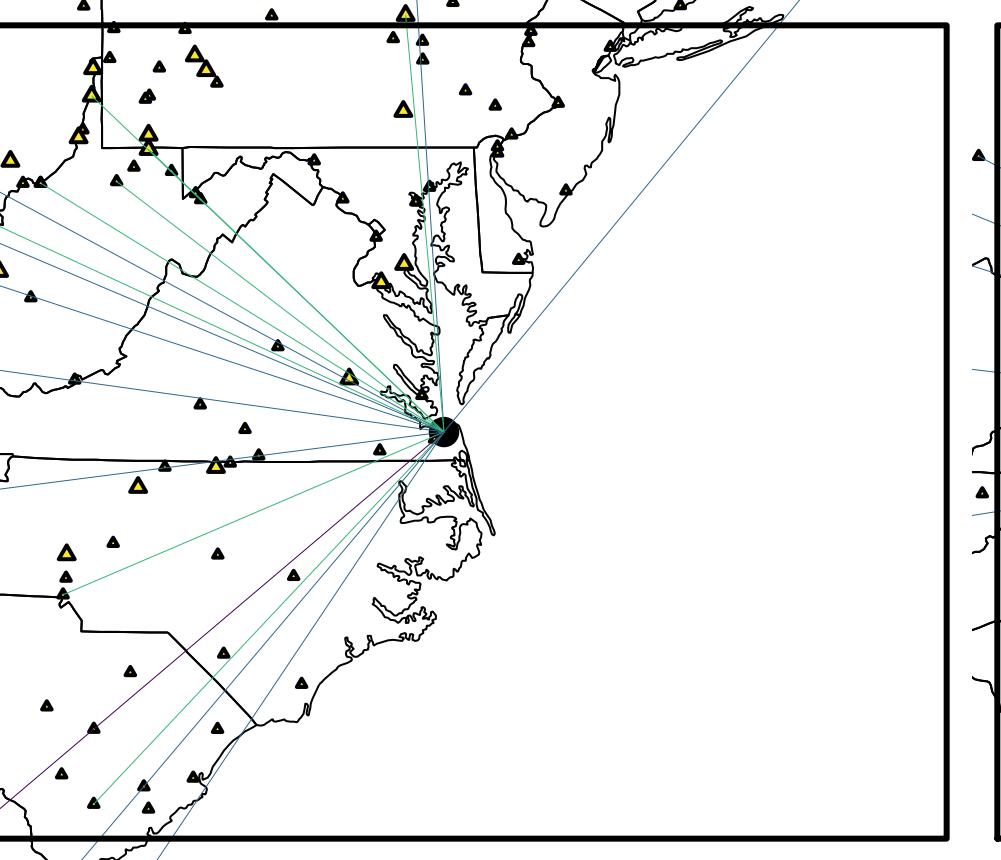
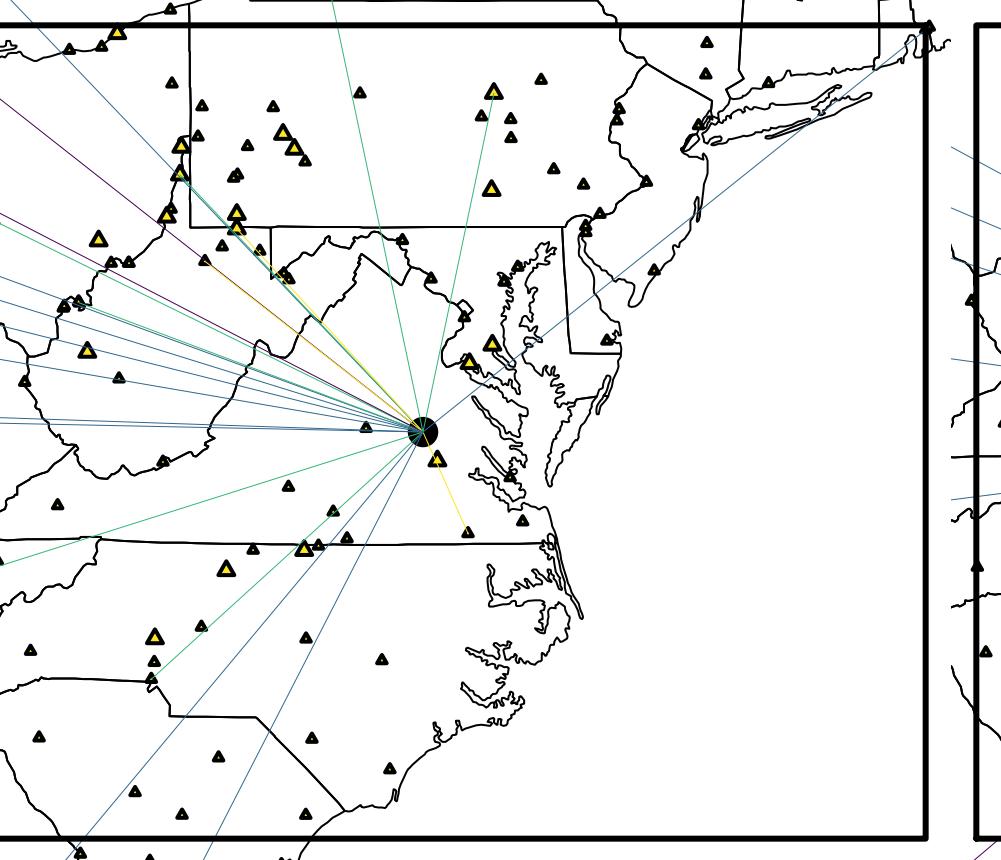
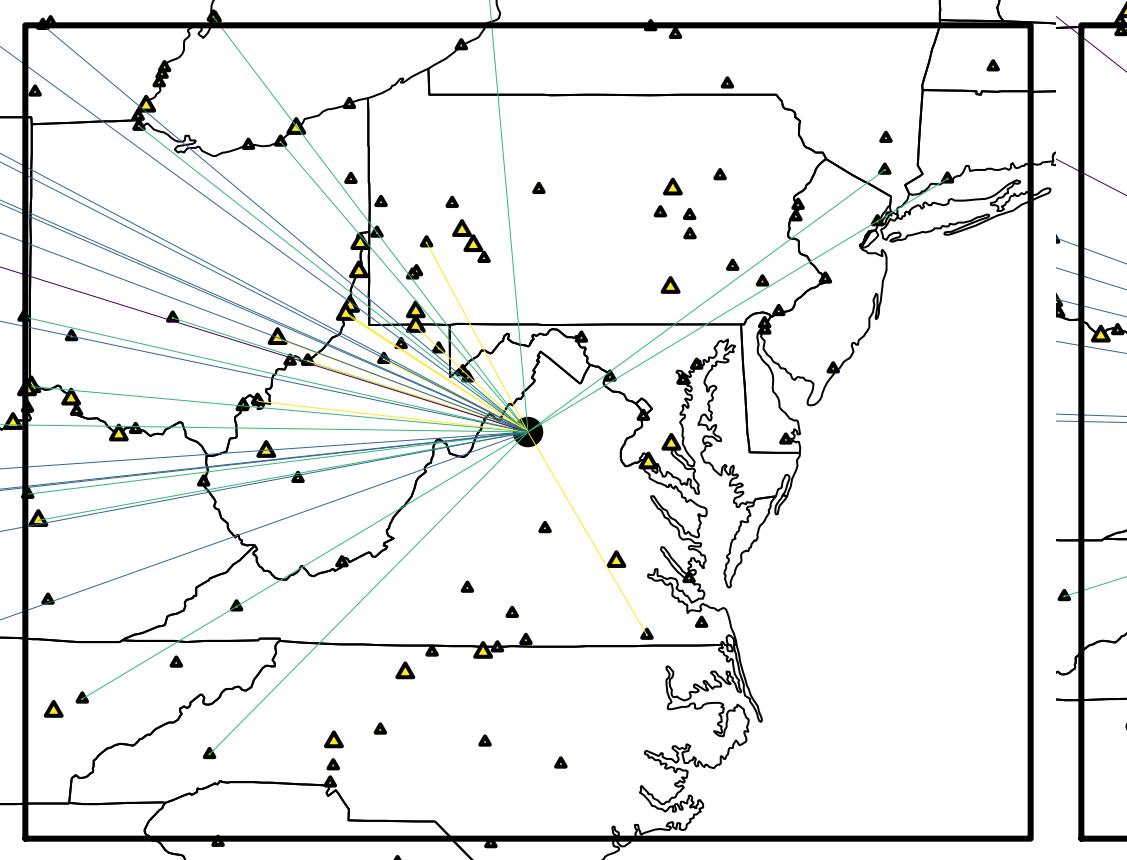


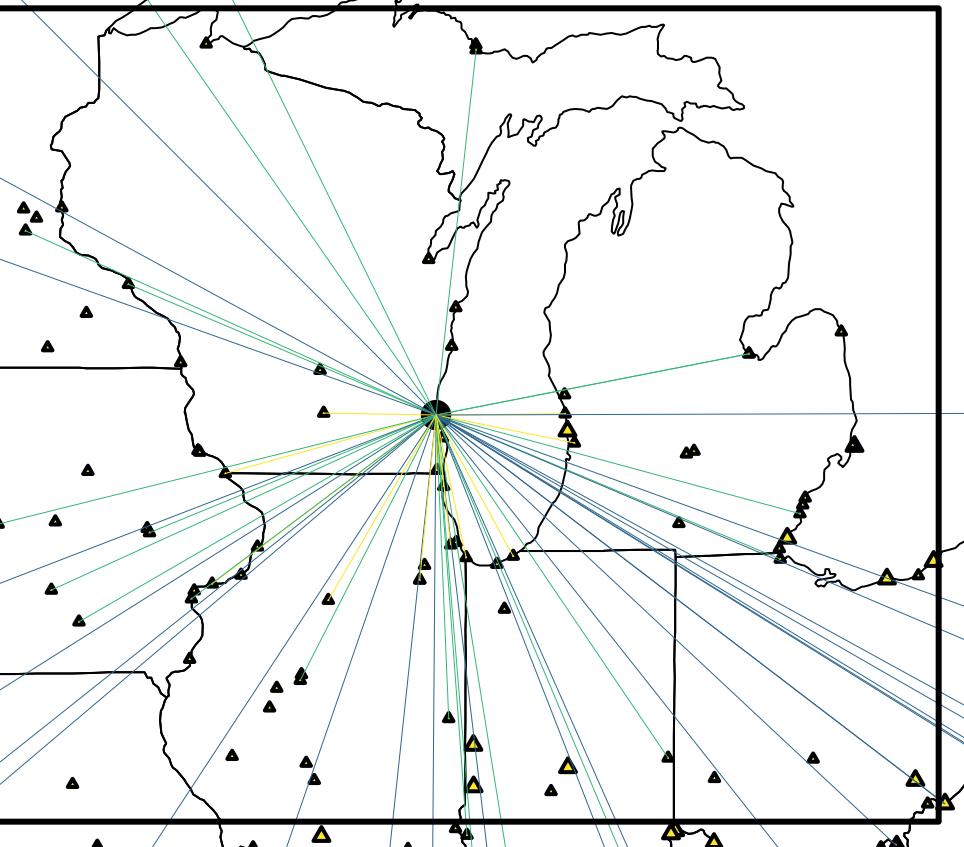
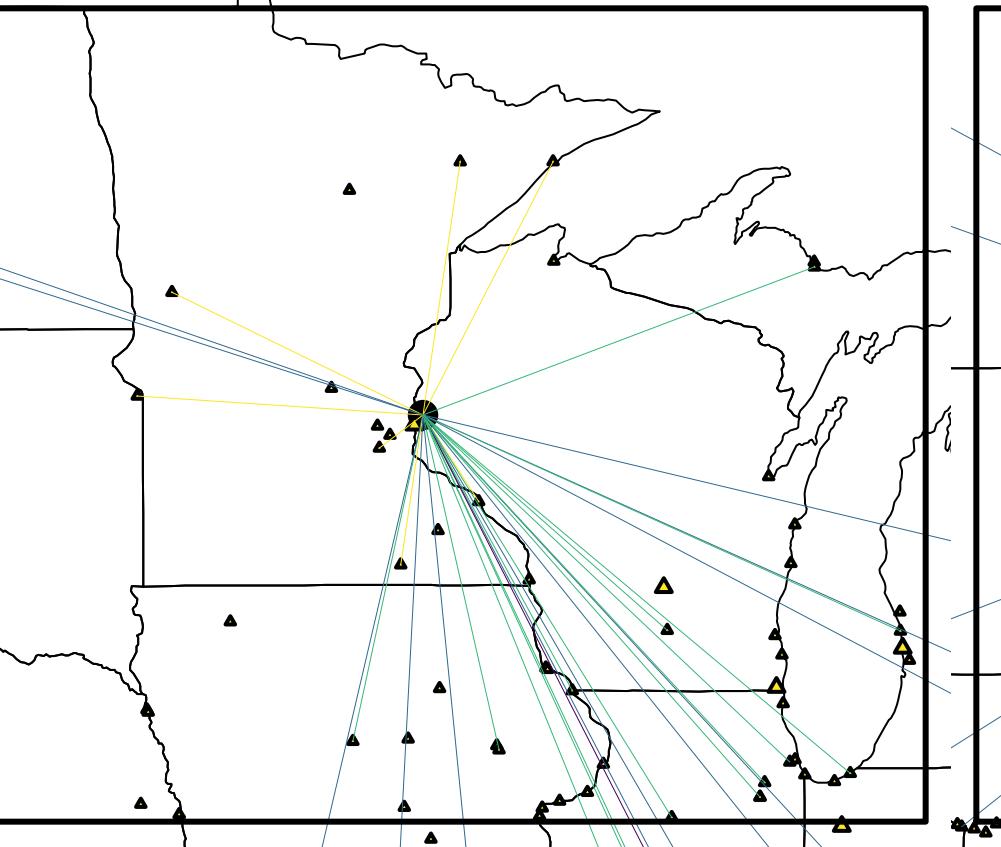
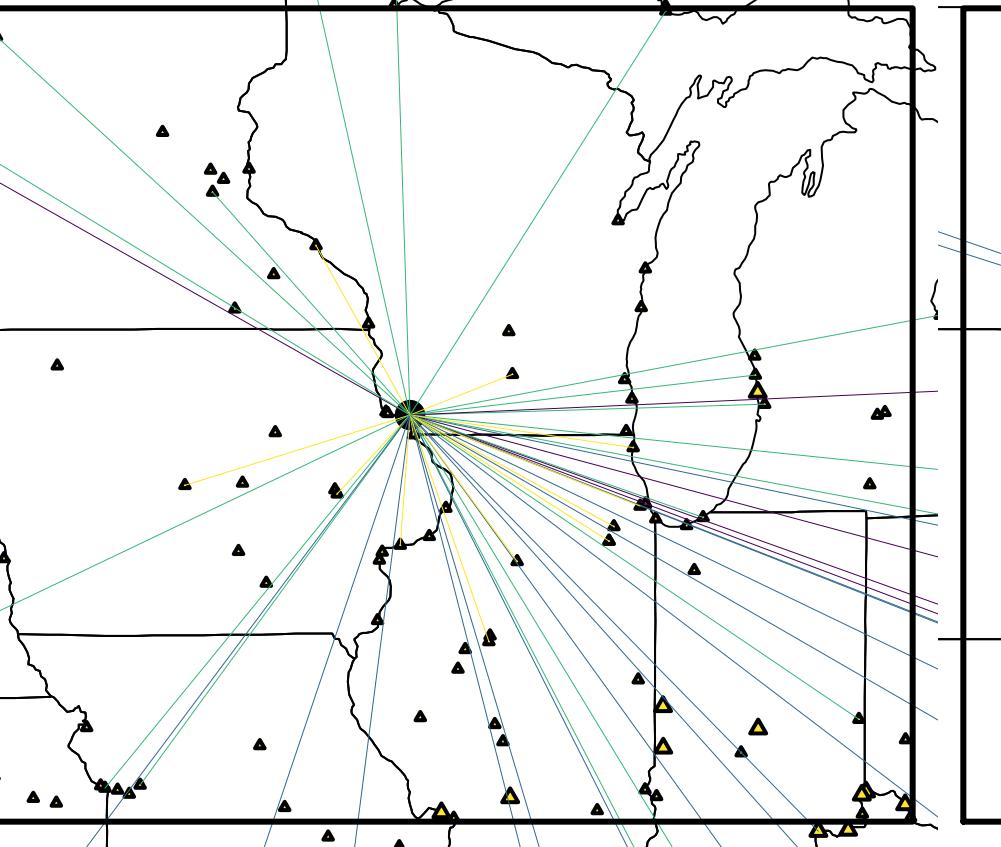
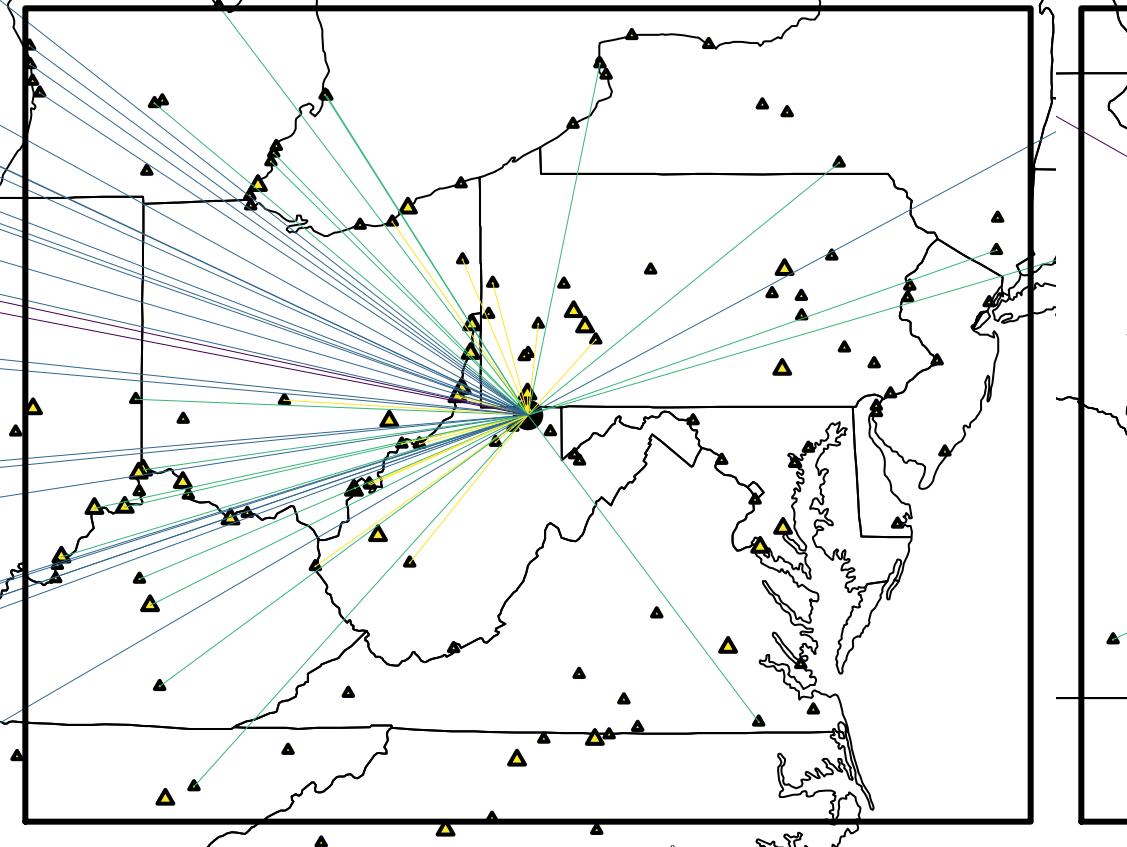
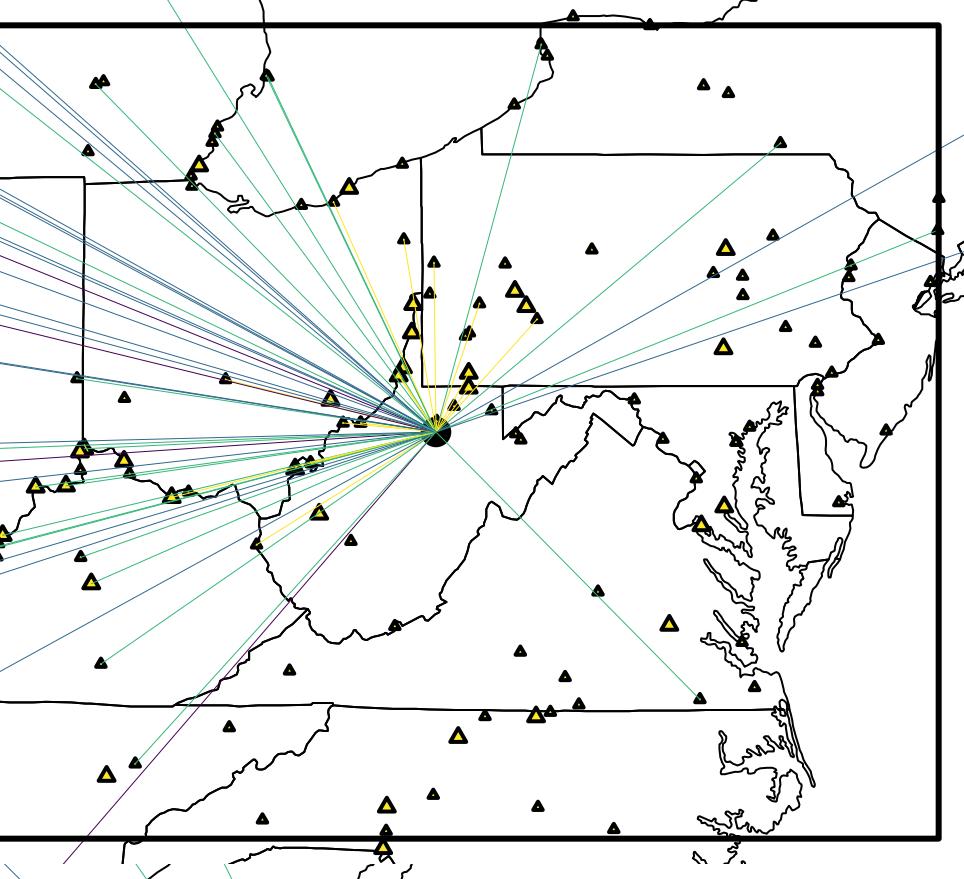
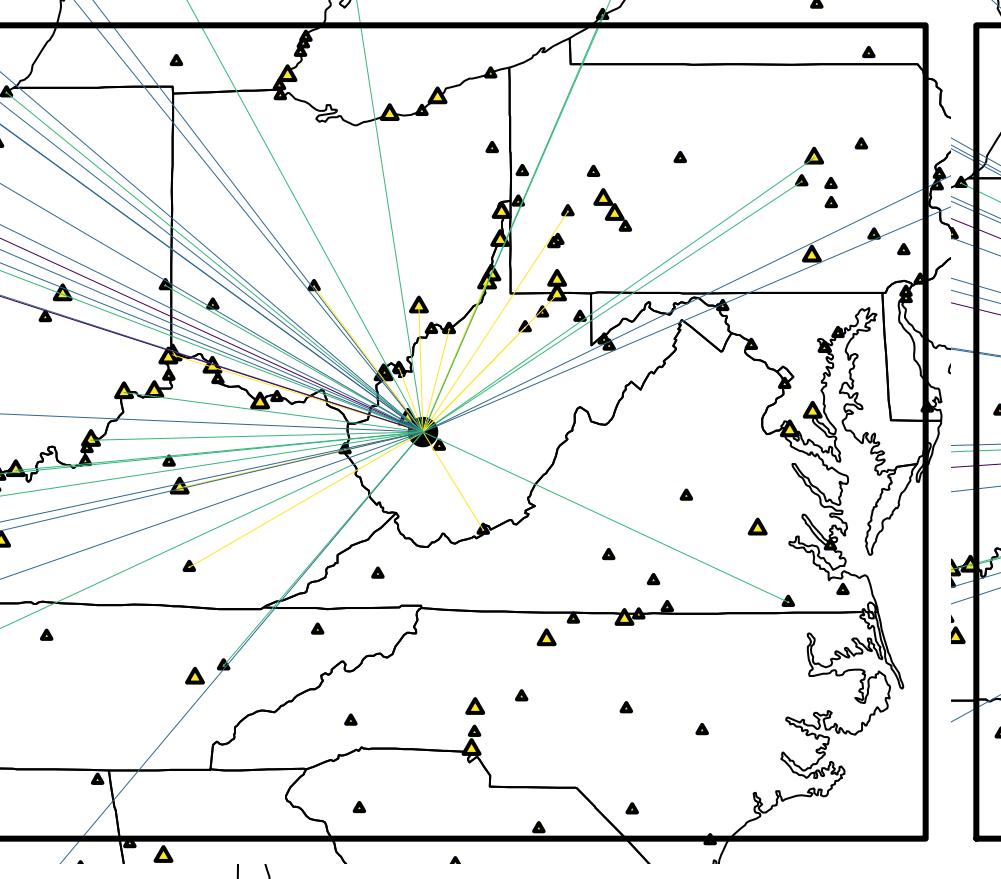
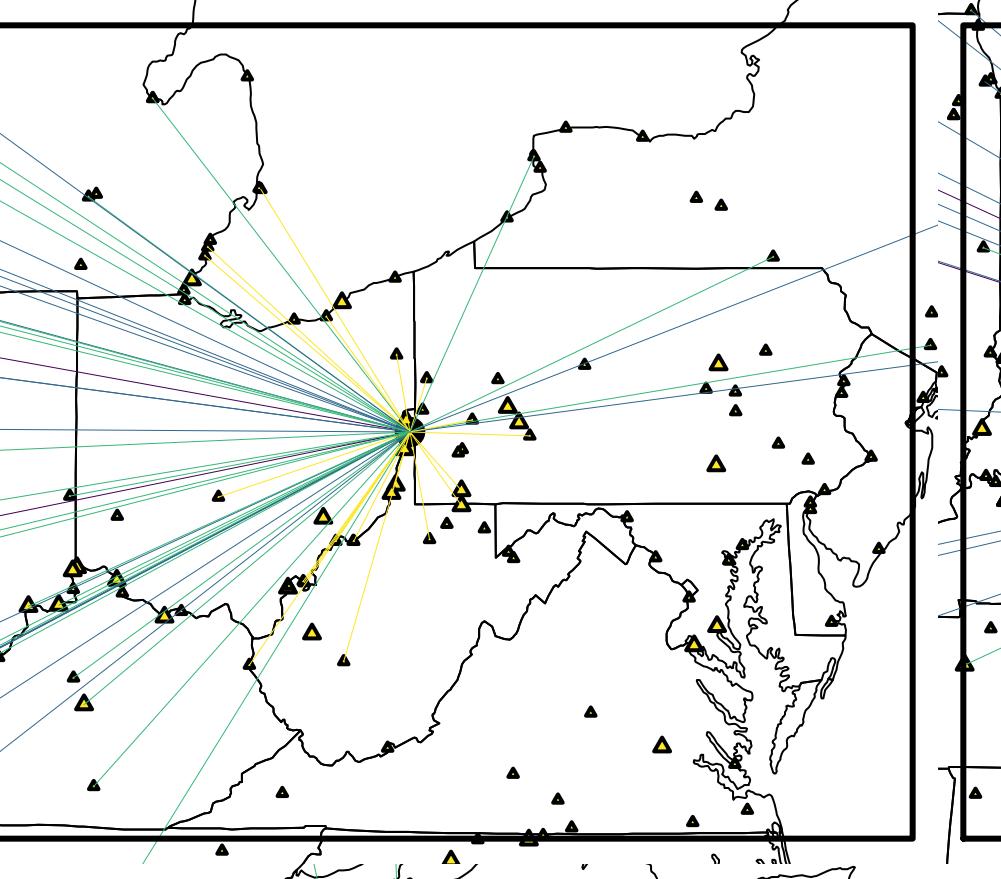
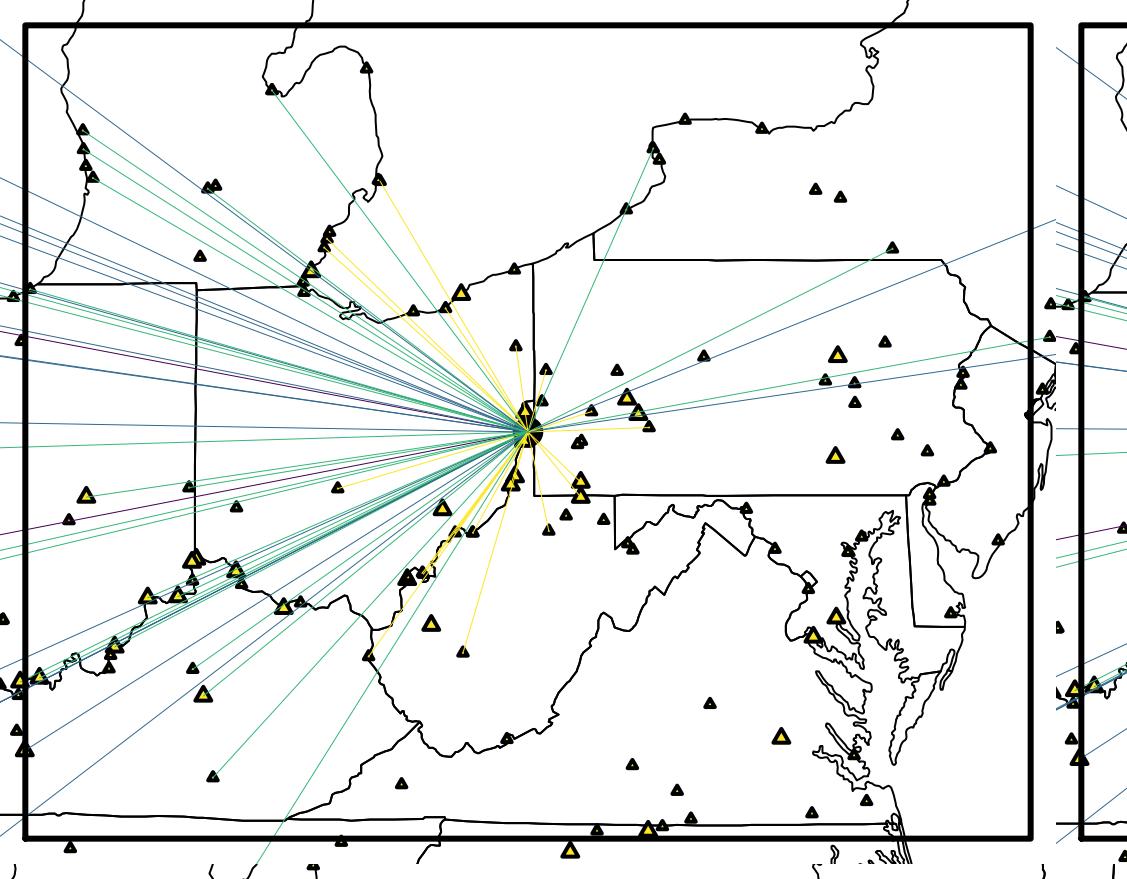


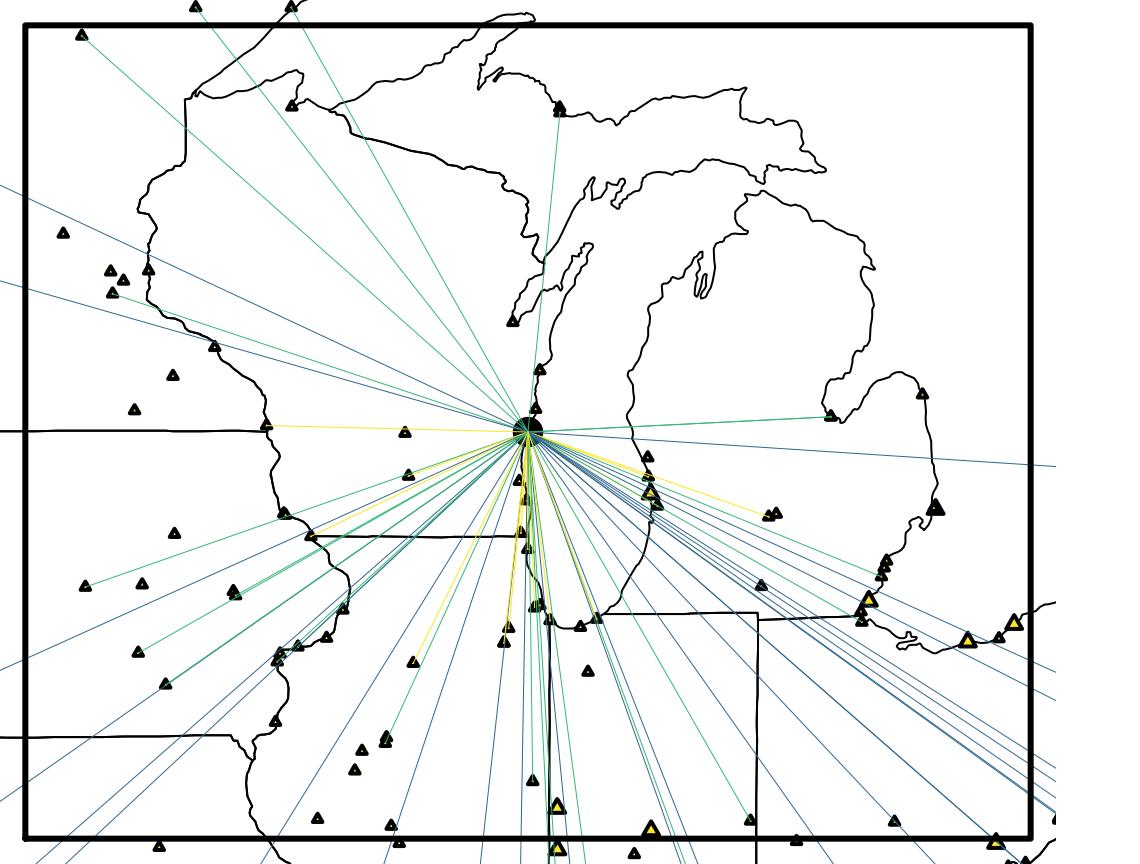
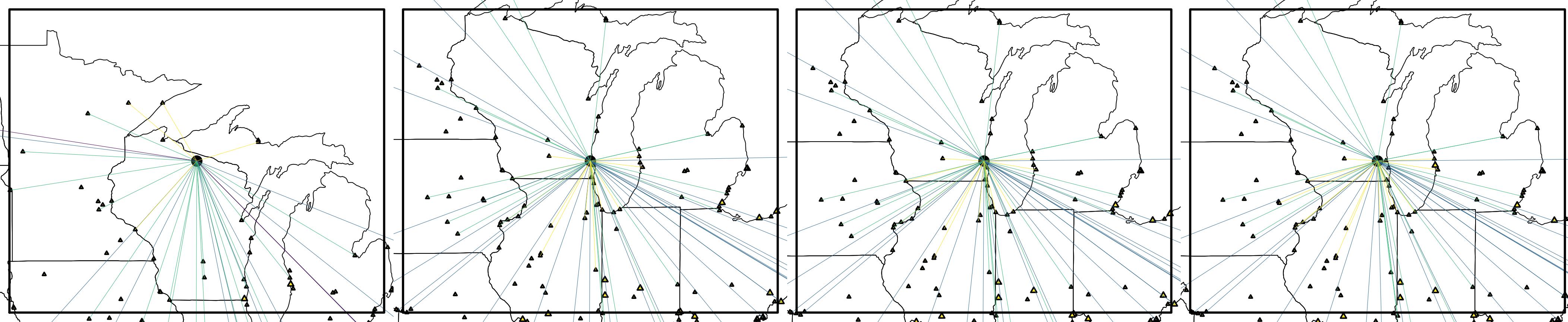




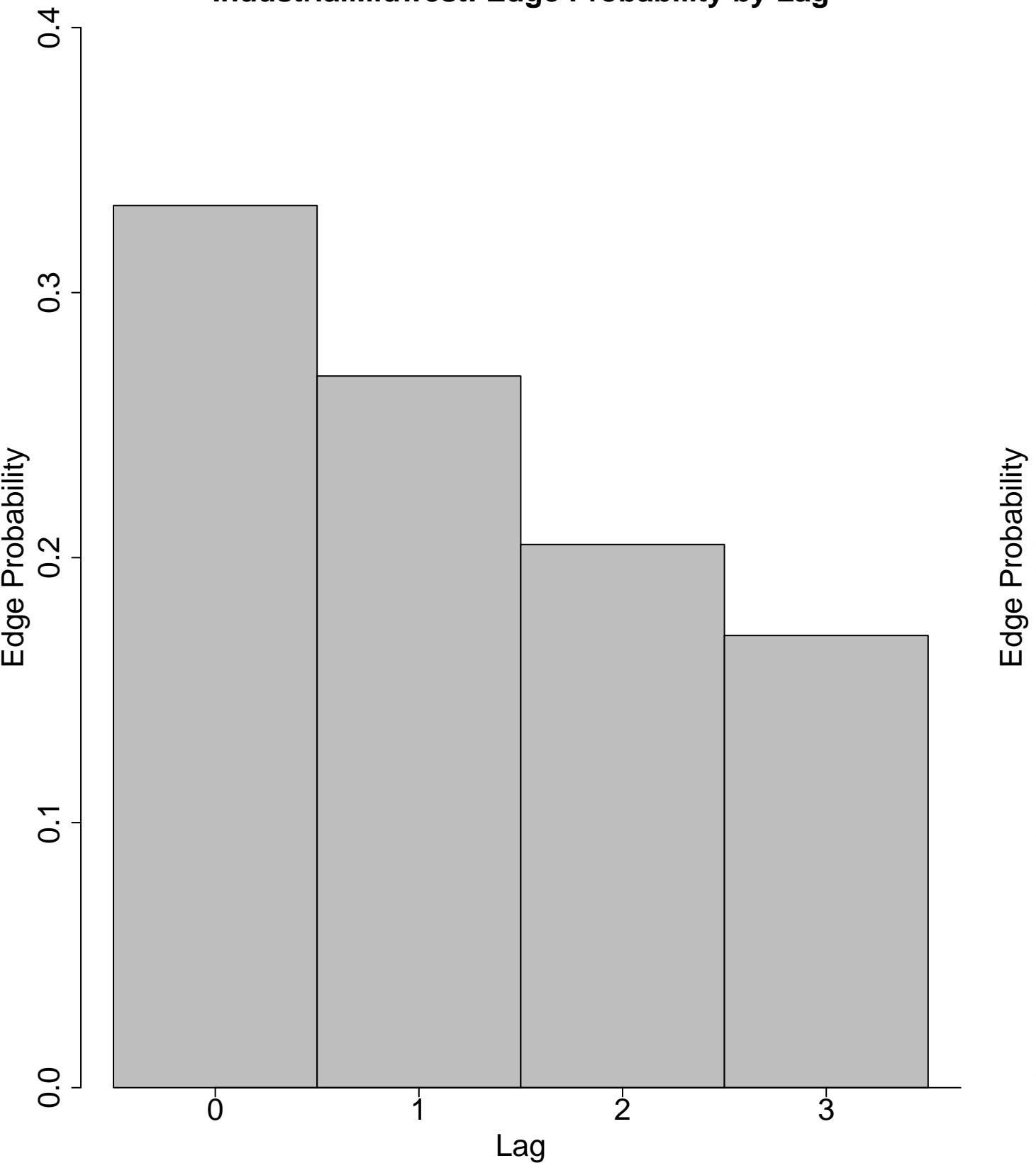




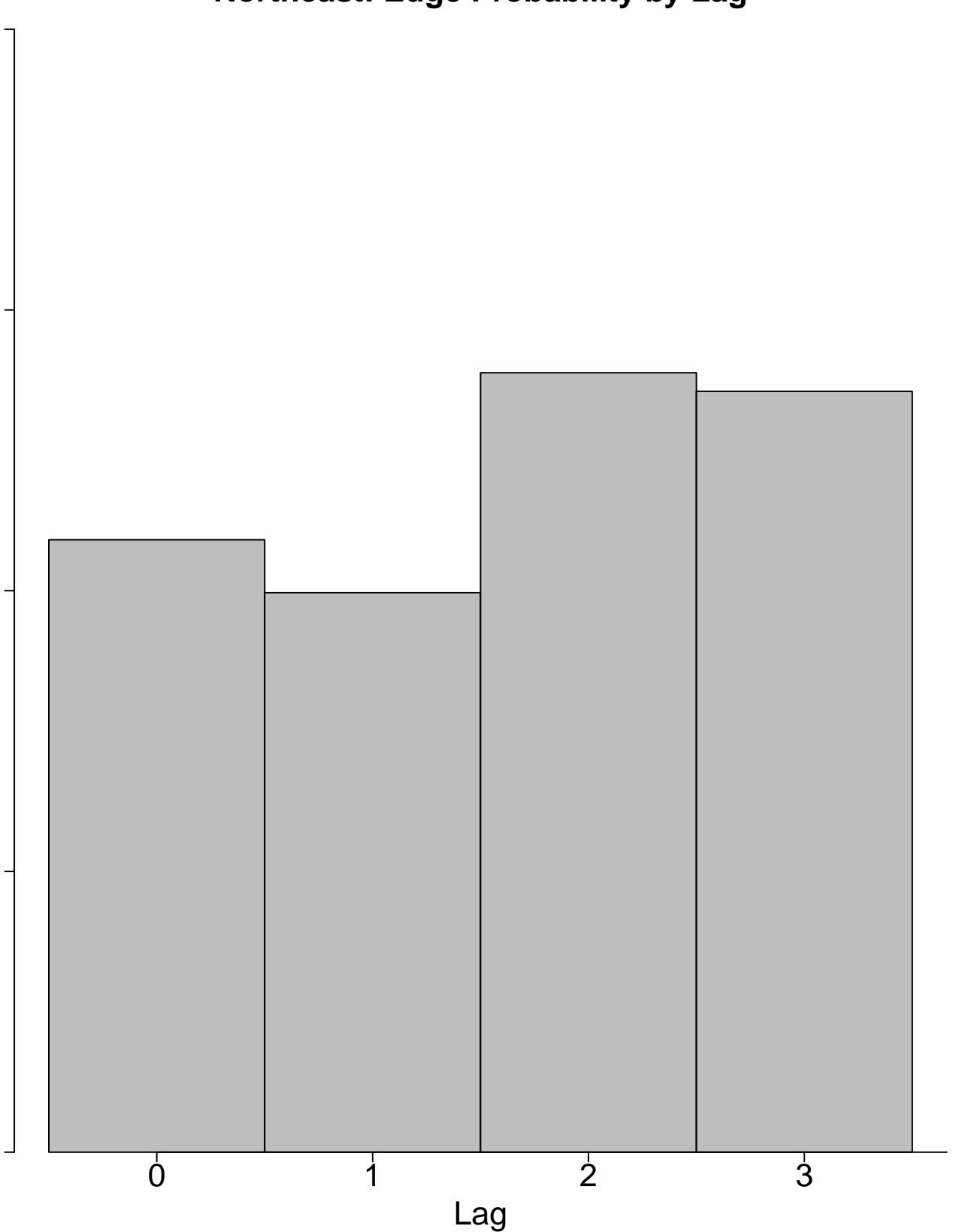




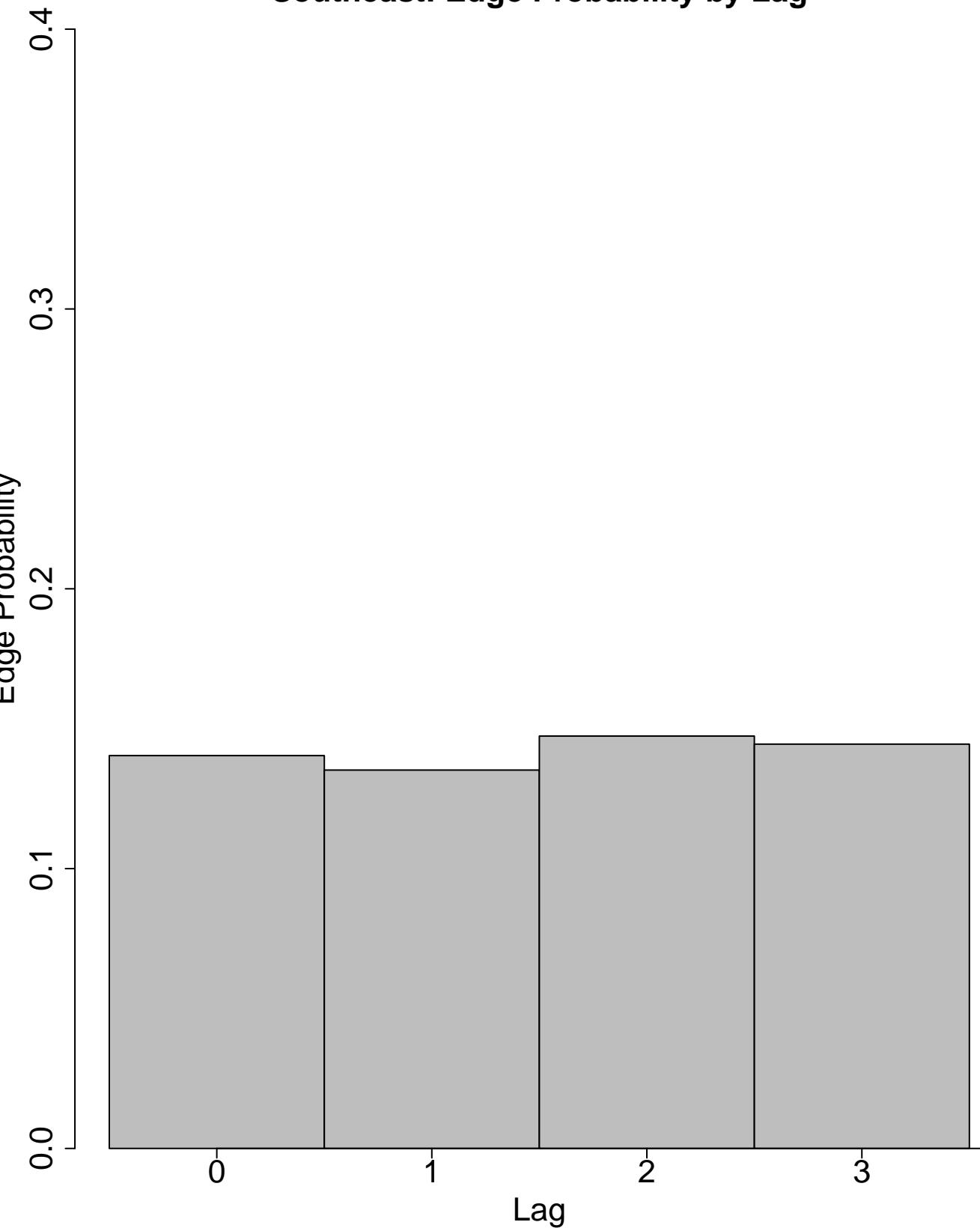
IndustrialMidwest: Edge Probability by Lag



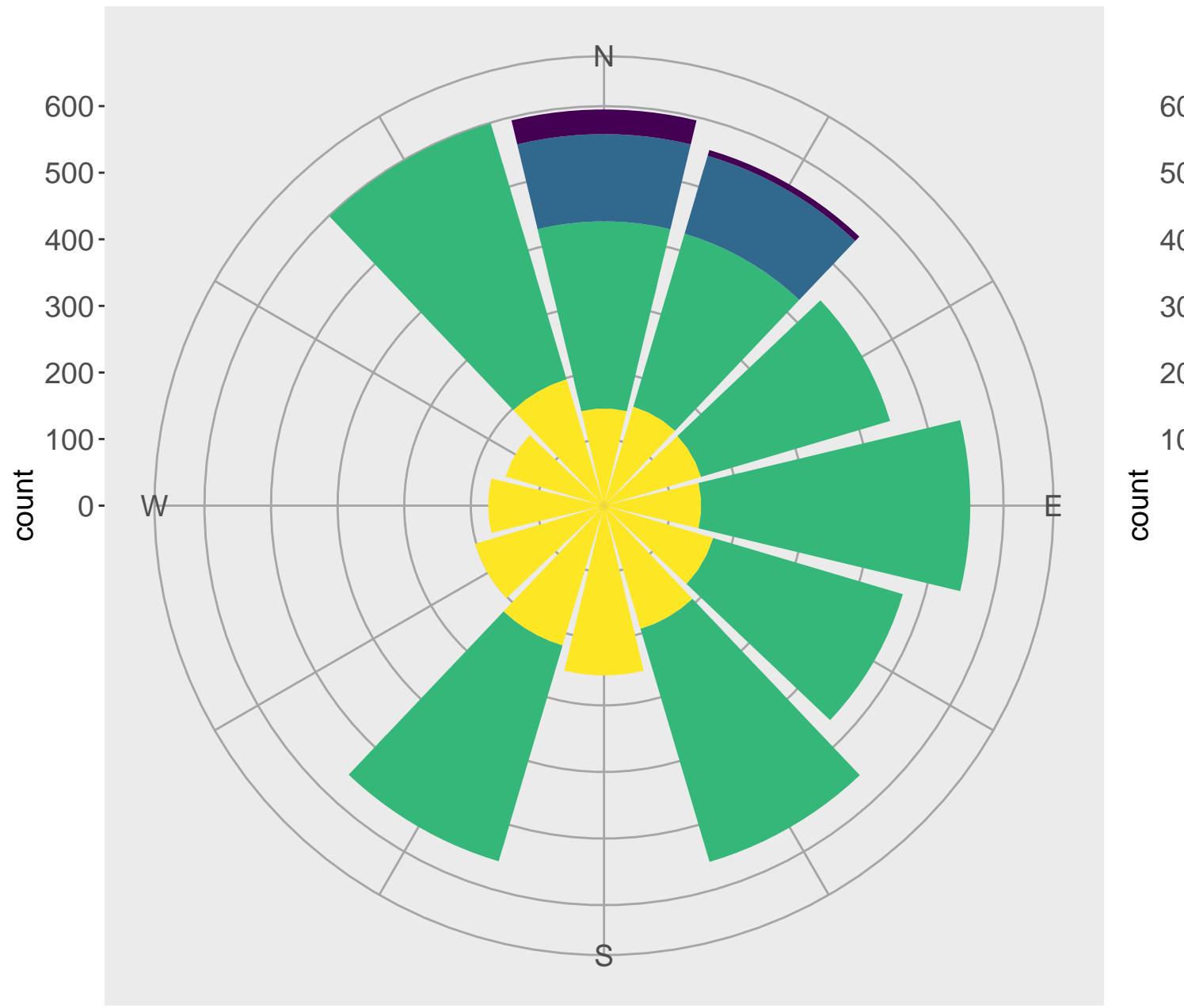
Northeast: Edge Probability by Lag



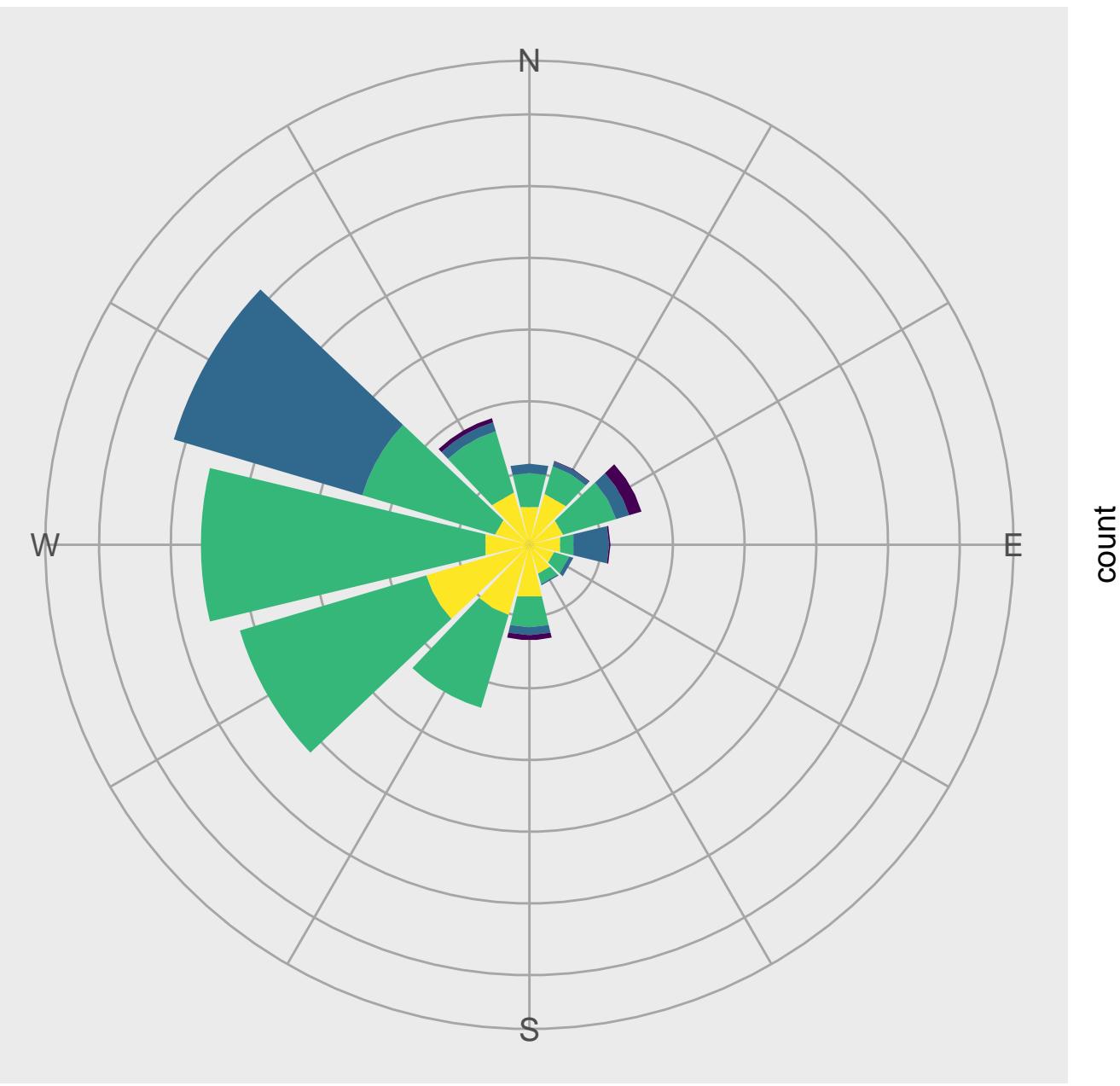
Southeast: Edge Probability by Lag



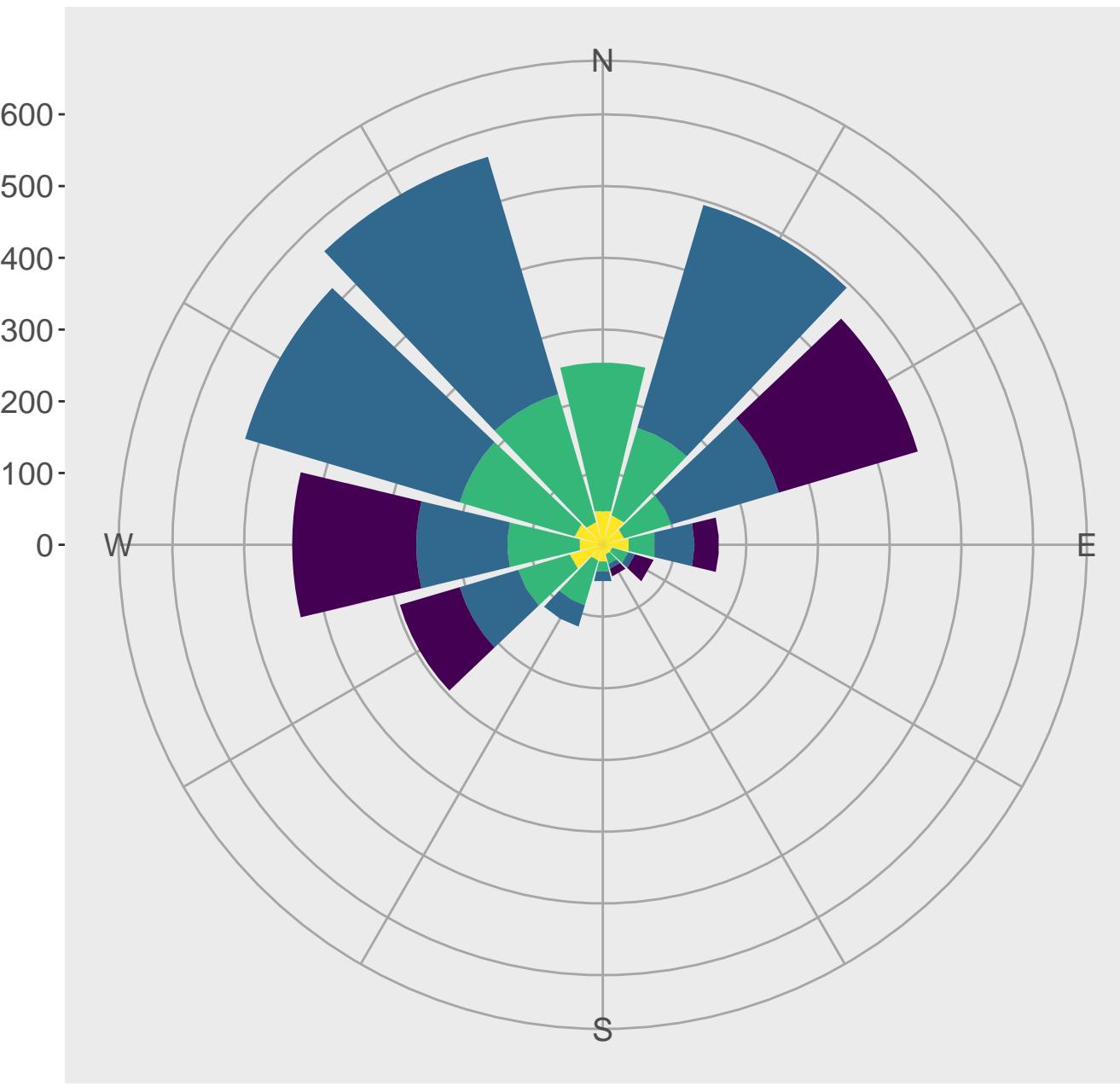
**Edge counts by distance/direction to source
IndustrialMidwest receptors**



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



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

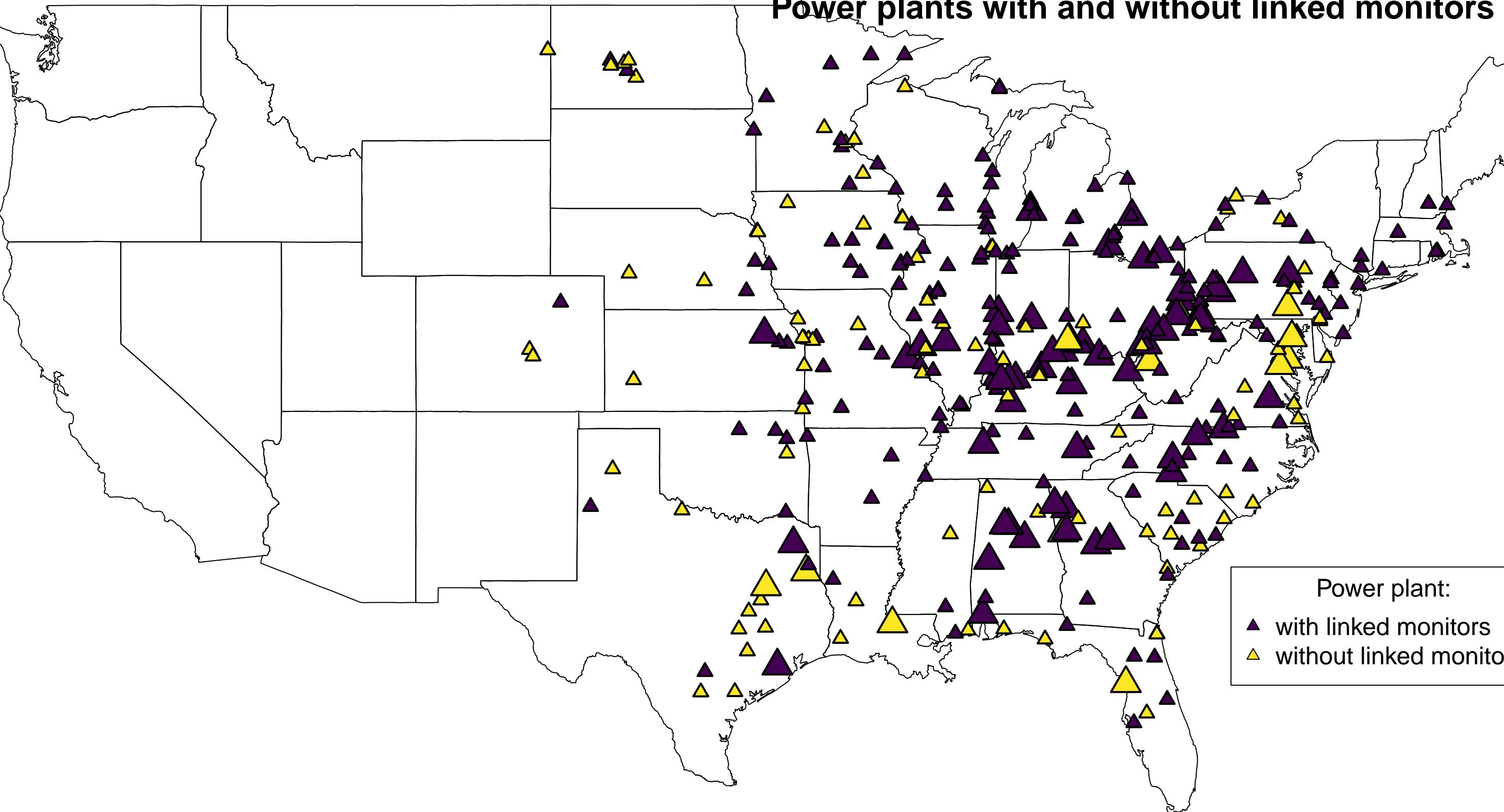


Distance to Source (km) 750–1000 500–750 250–500 0–250

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

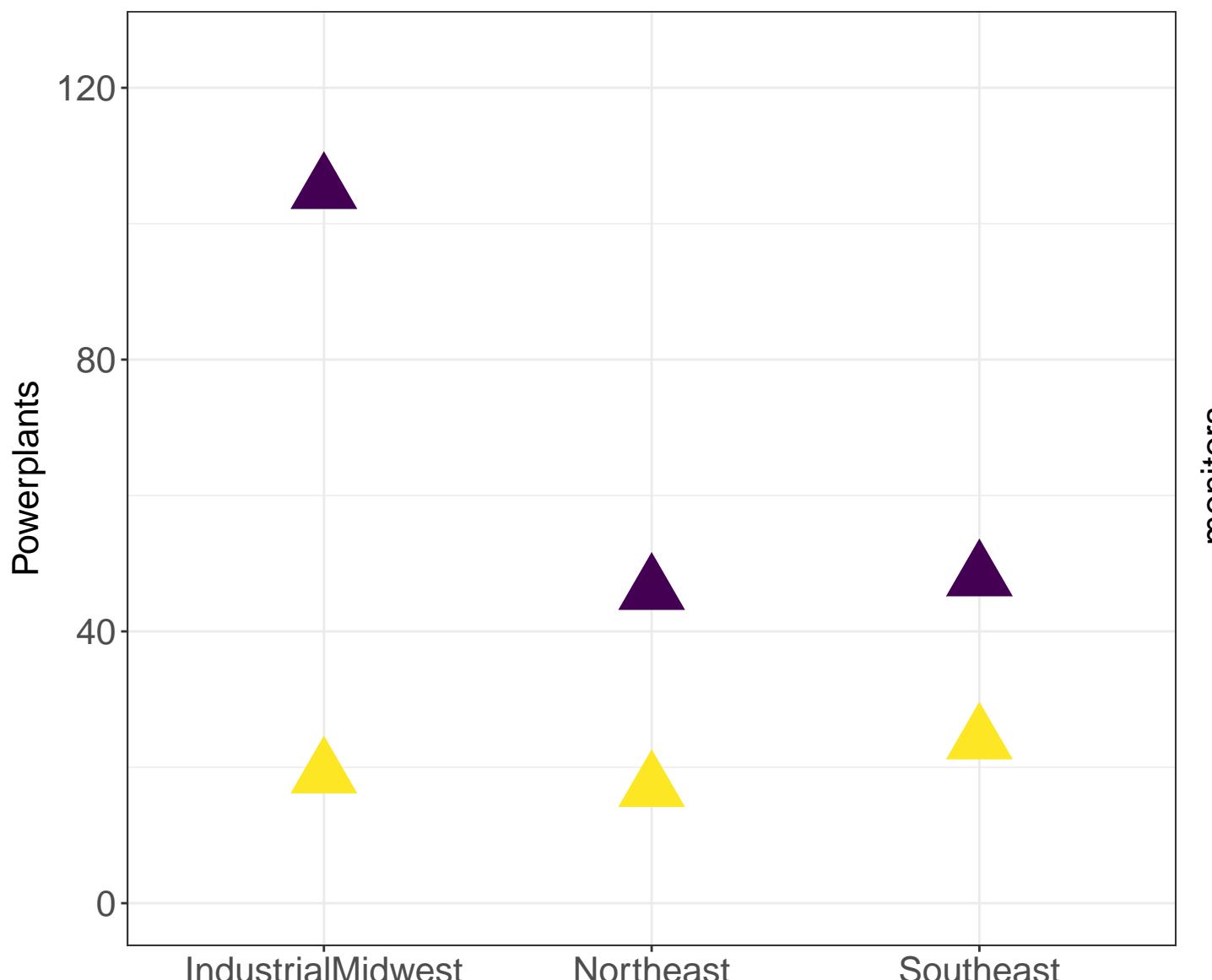
Distance to Source (km) 750–1000 500–750 250–500 0–250

Power plants with and without linked monitors

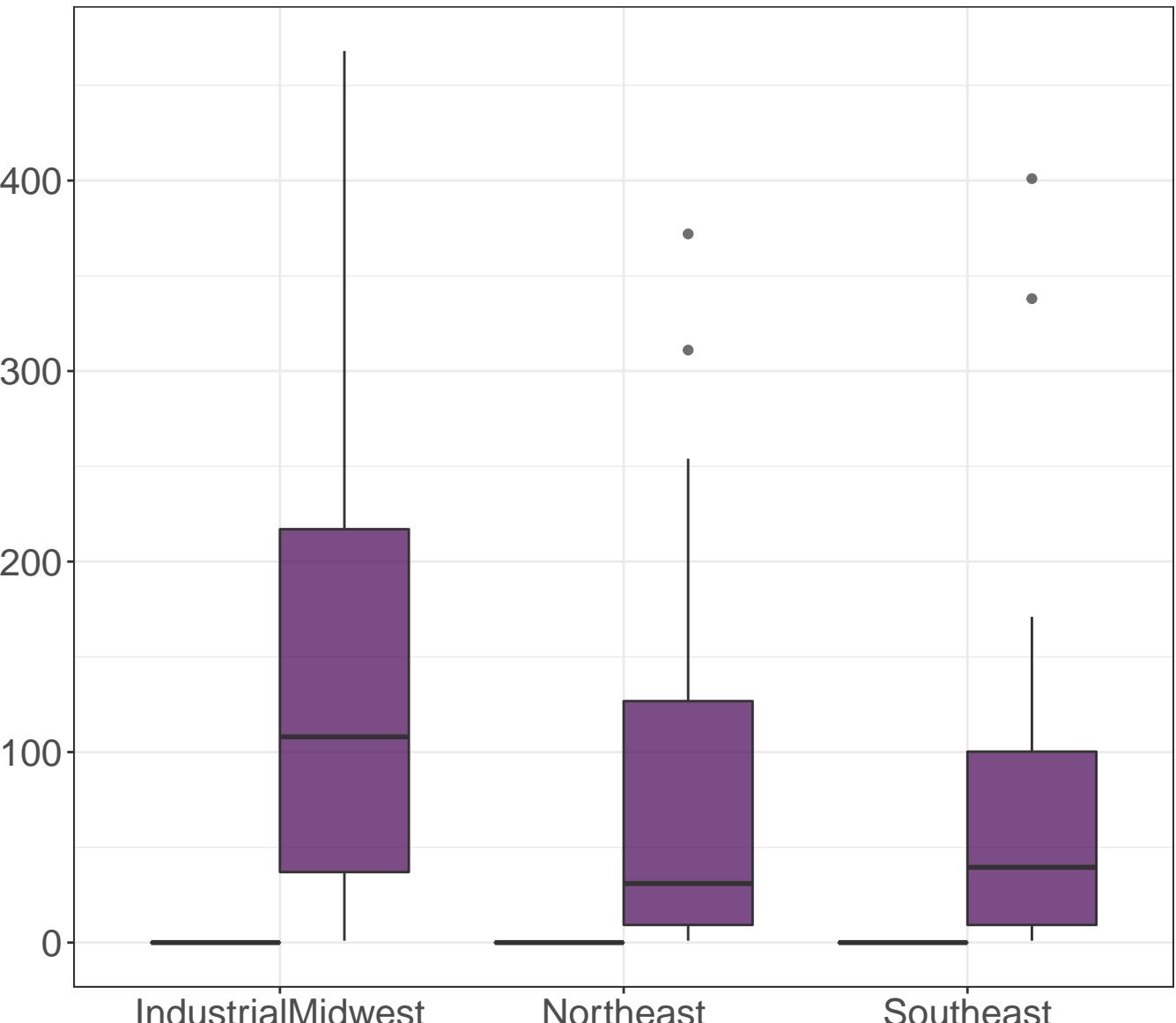


Why do some power plants have linked monitors and others do not?

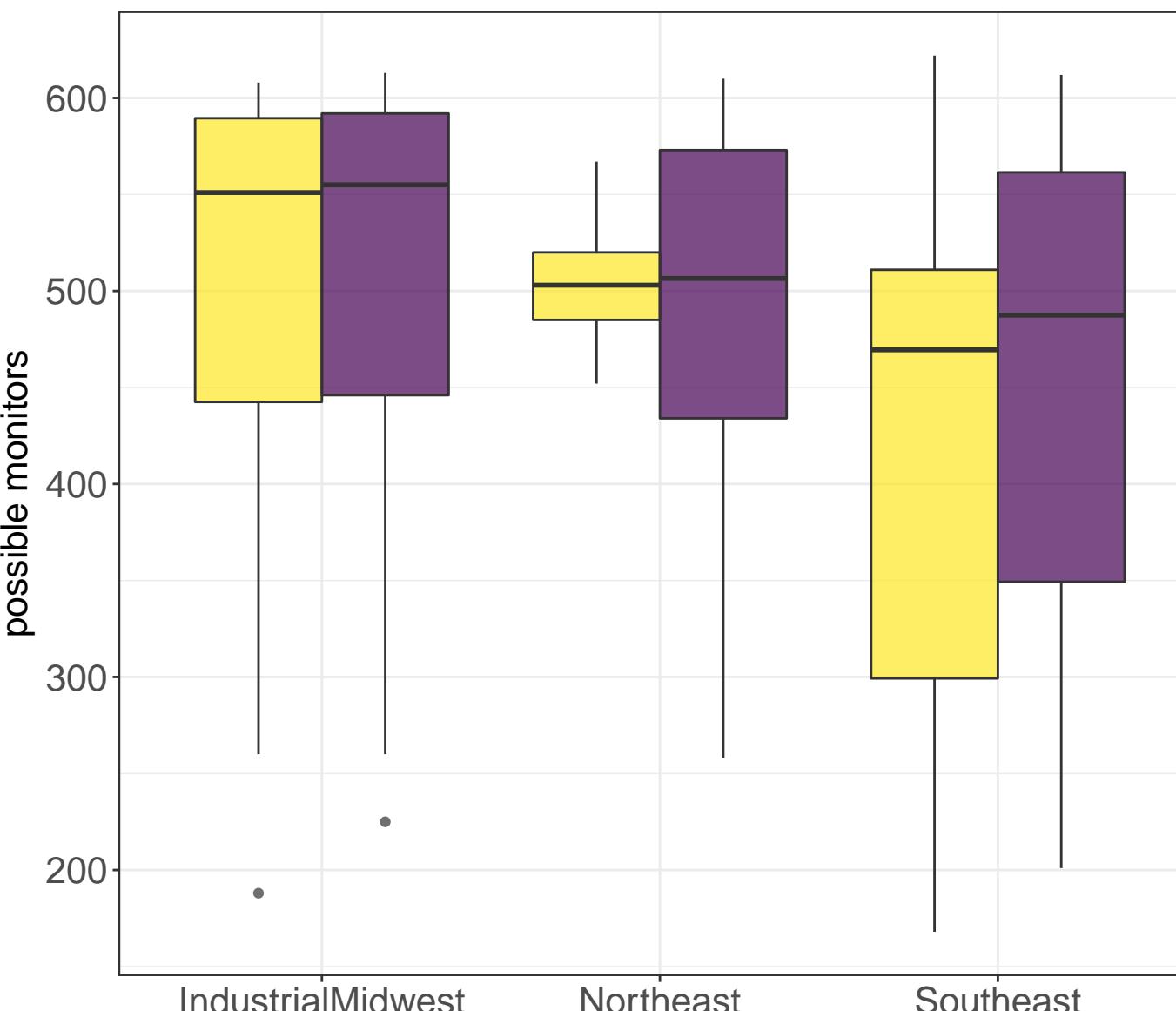
Number of powerplants



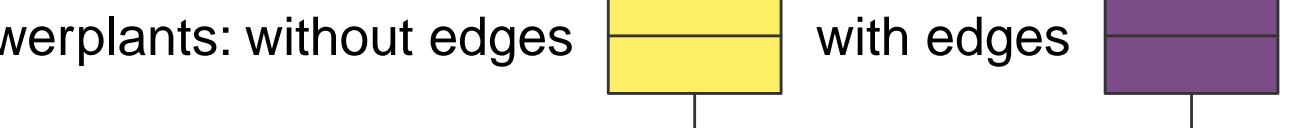
Number of linked monitors



Number of possible linked monitors

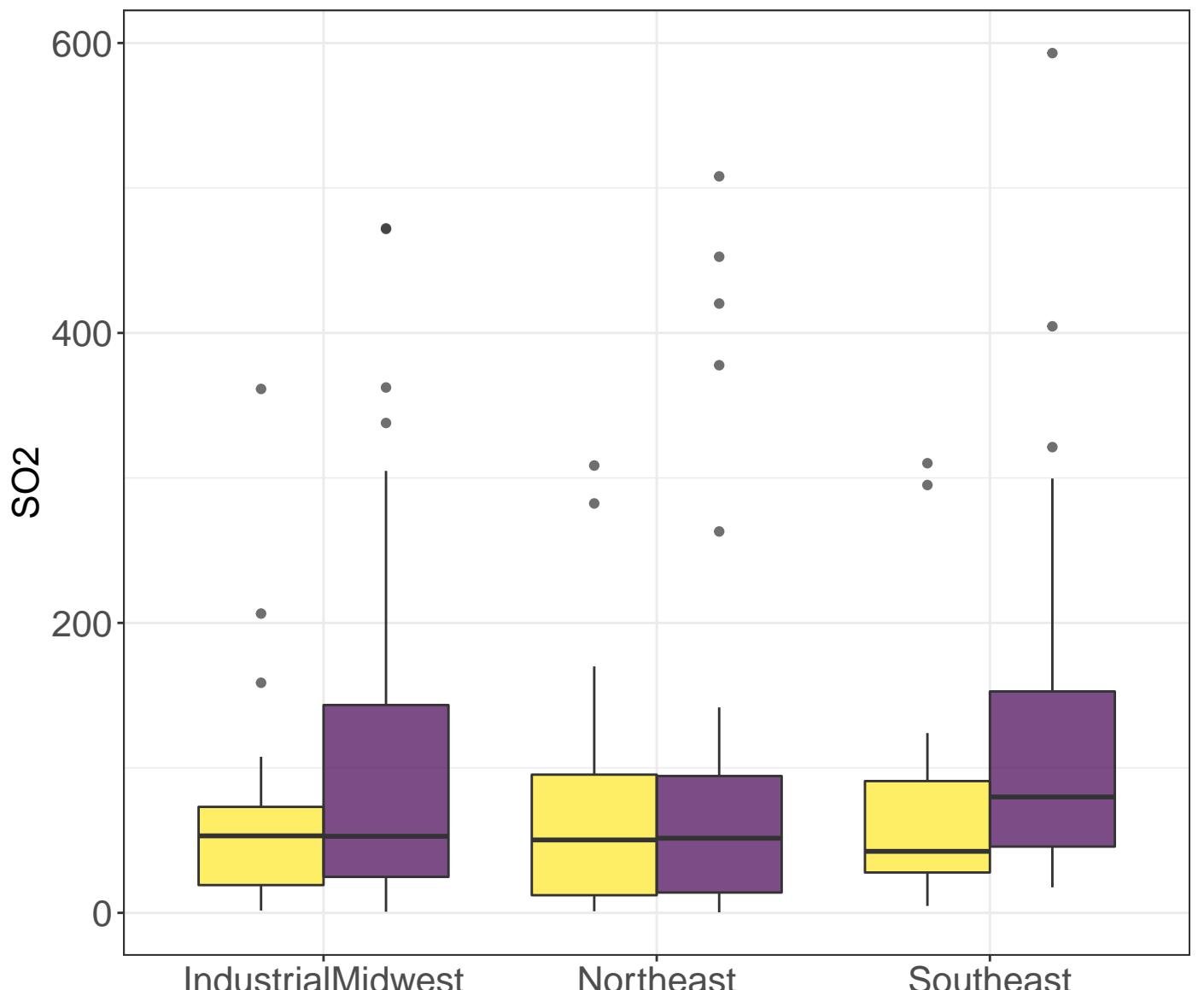


Powerplants: without edges

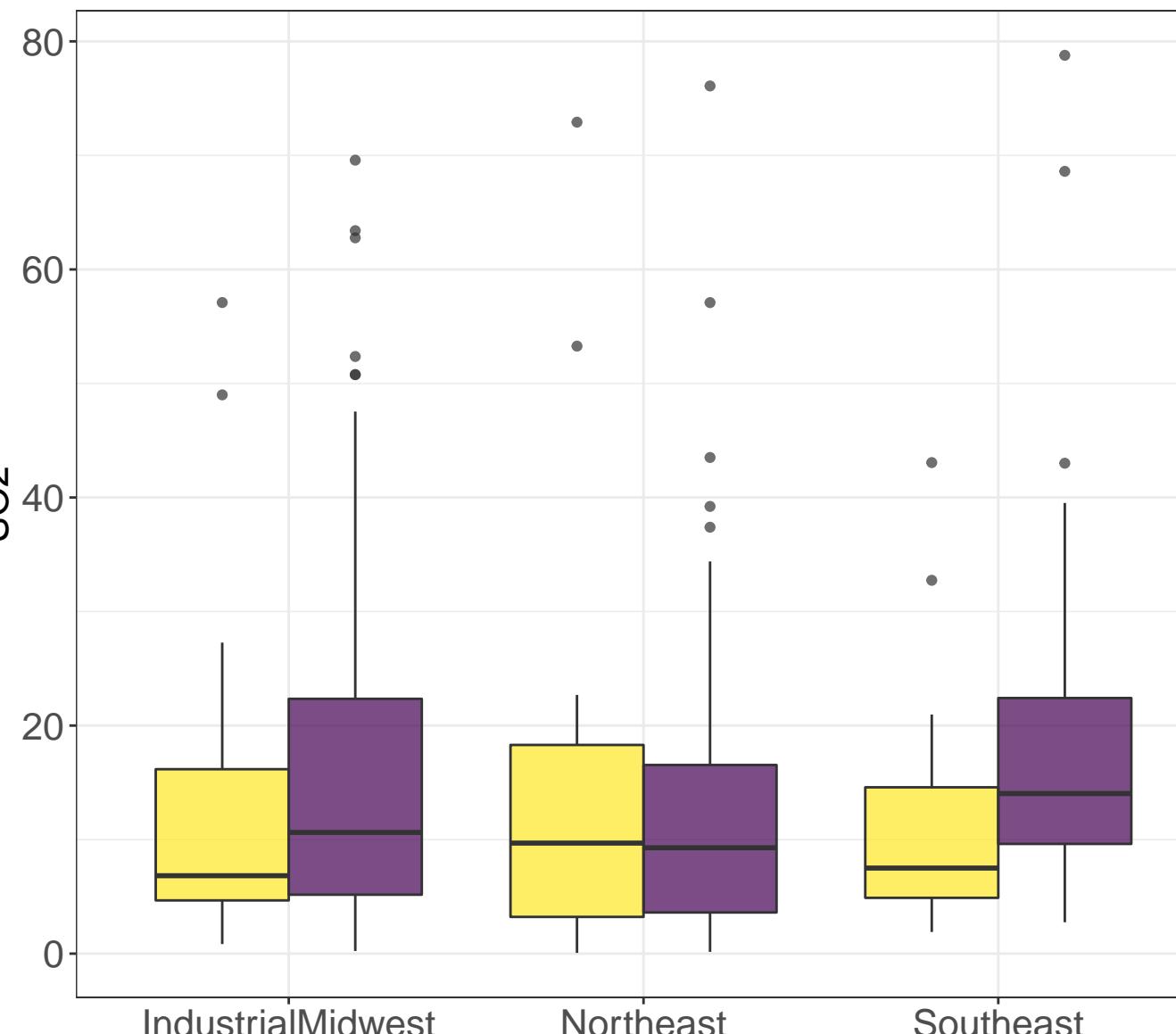


Why do some power plants have linked monitors and others do not?

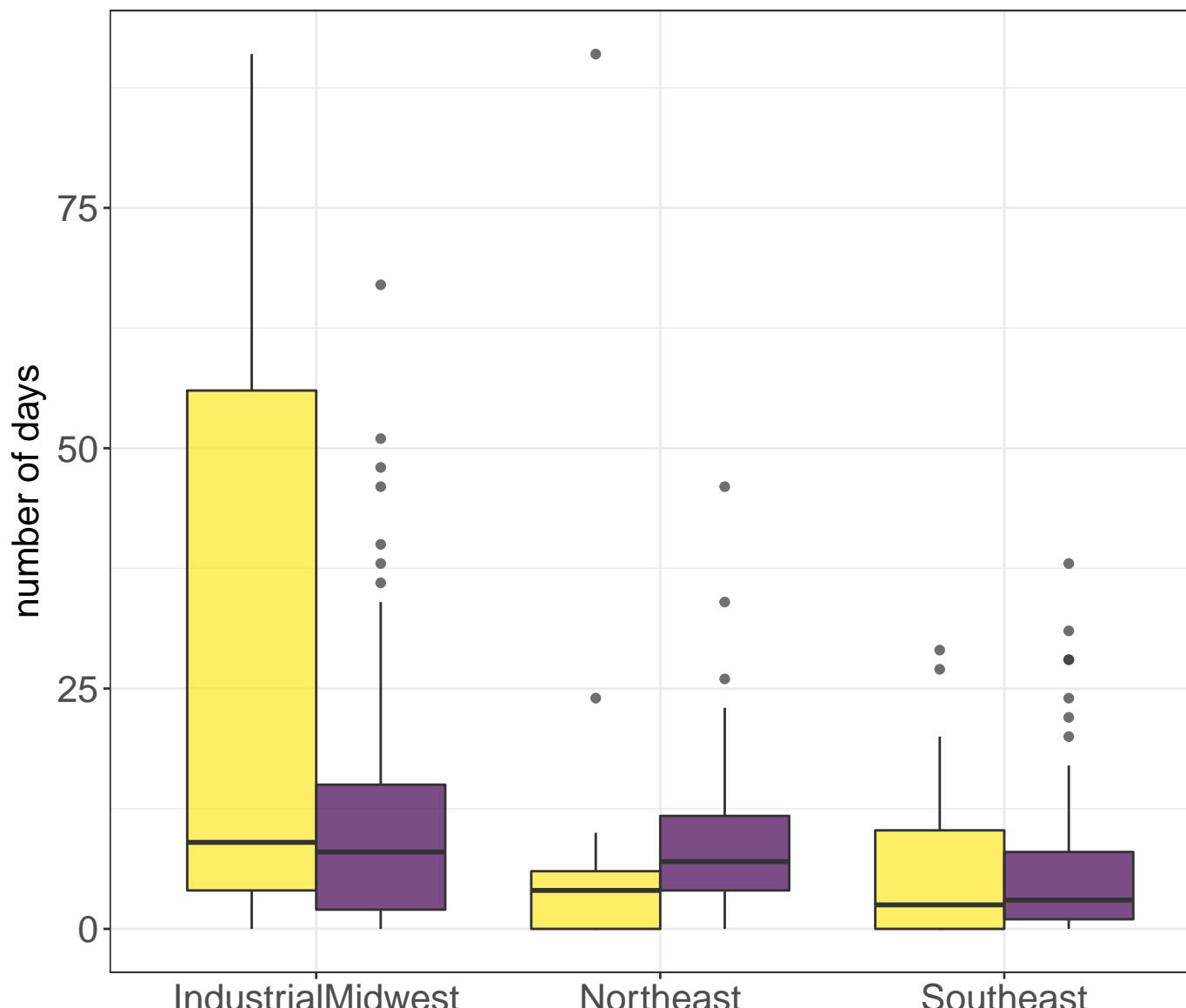
Average daily emissions



Standard deviation in daily emissions



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

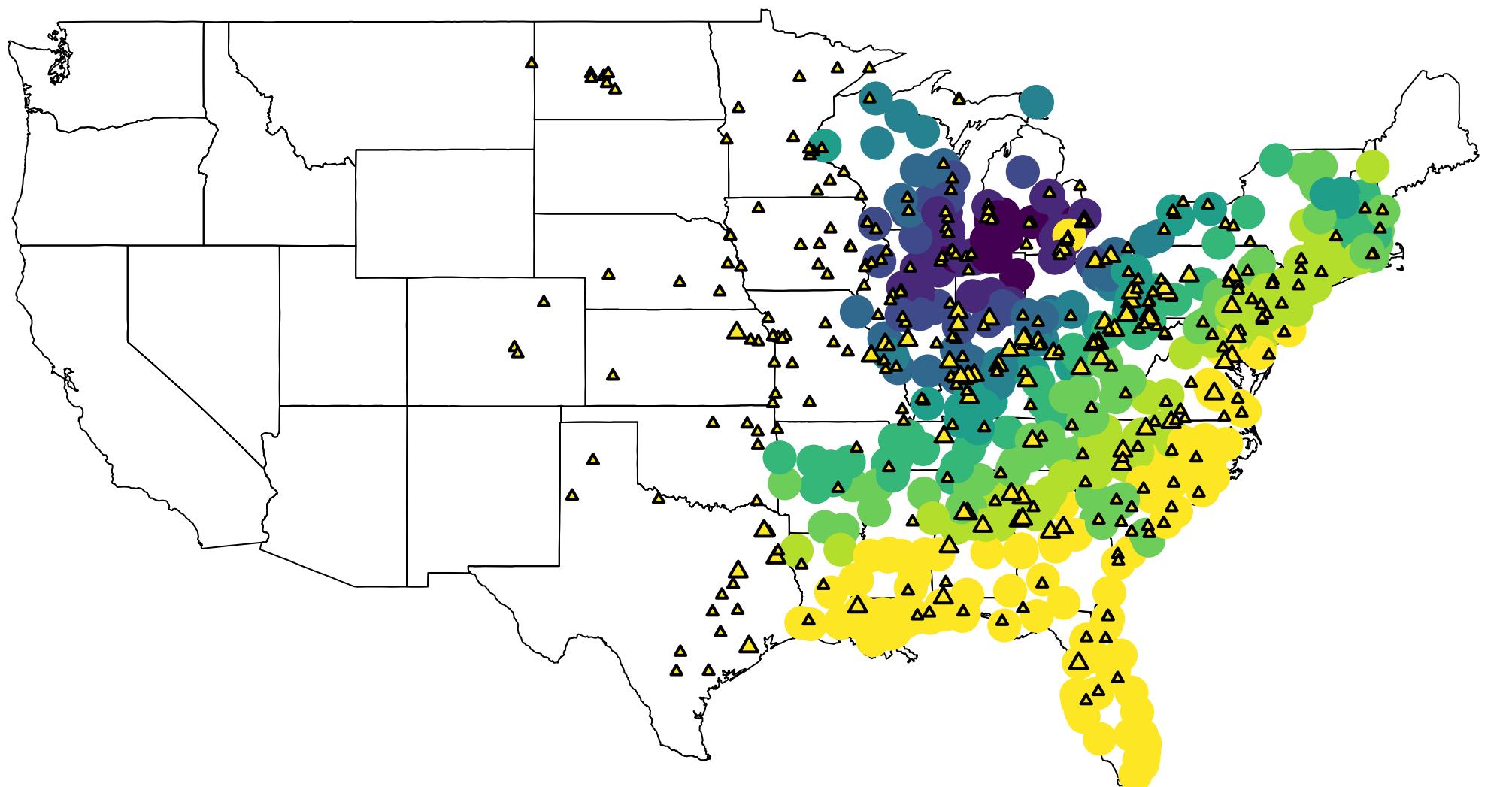


Powerplants: without edges

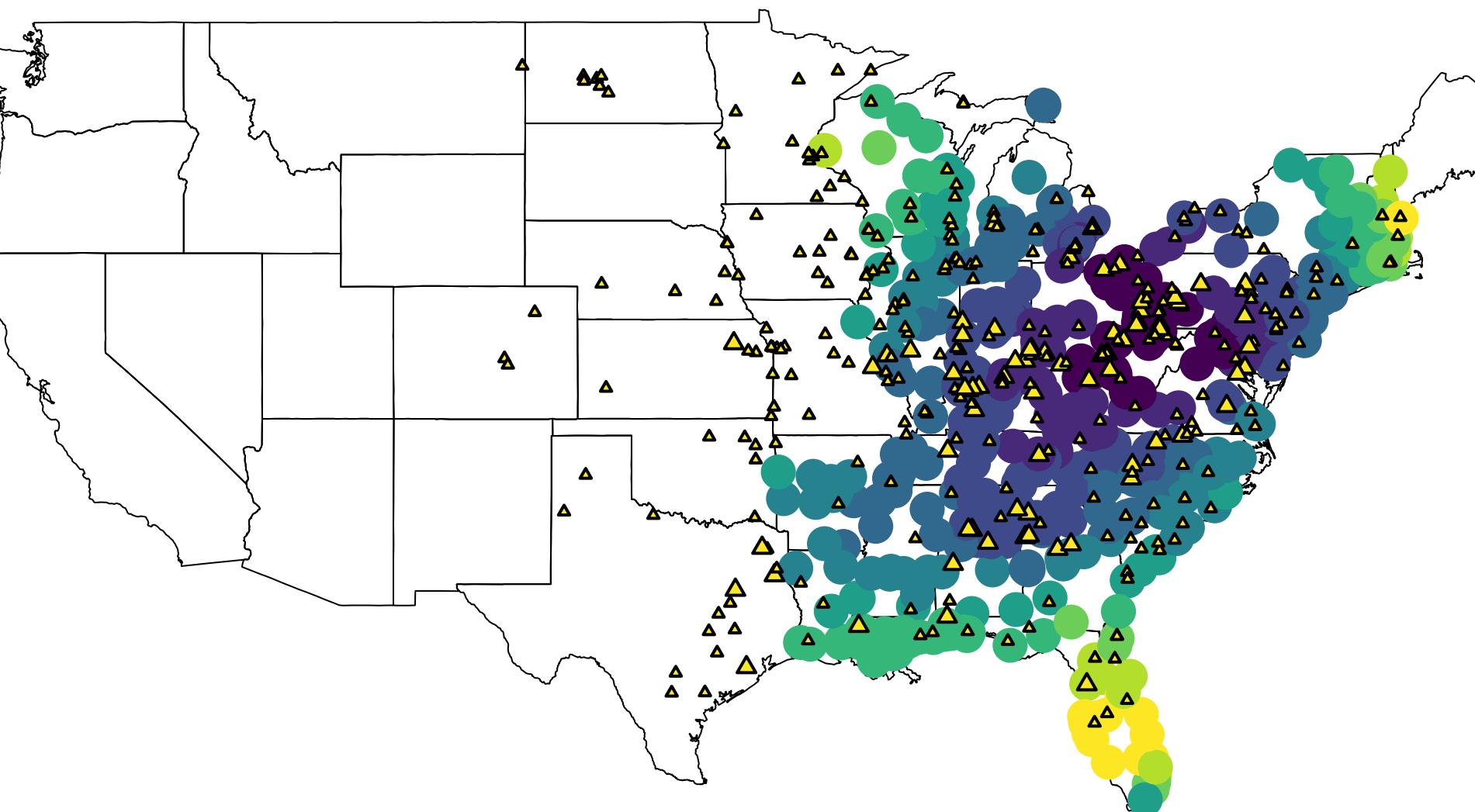


with edges

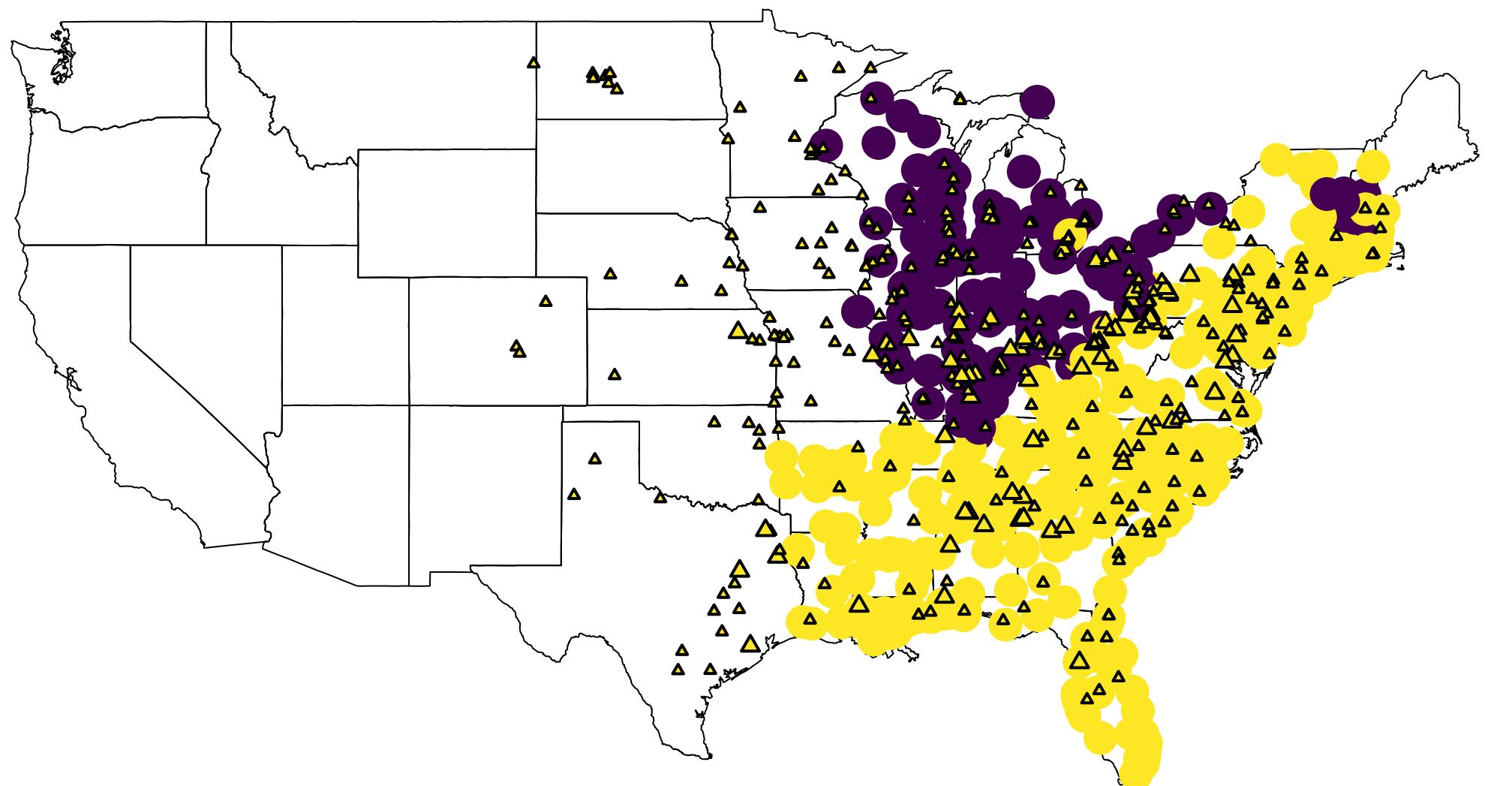
Monitor exposure: sum of gams.coeff, summer_distLag 2005



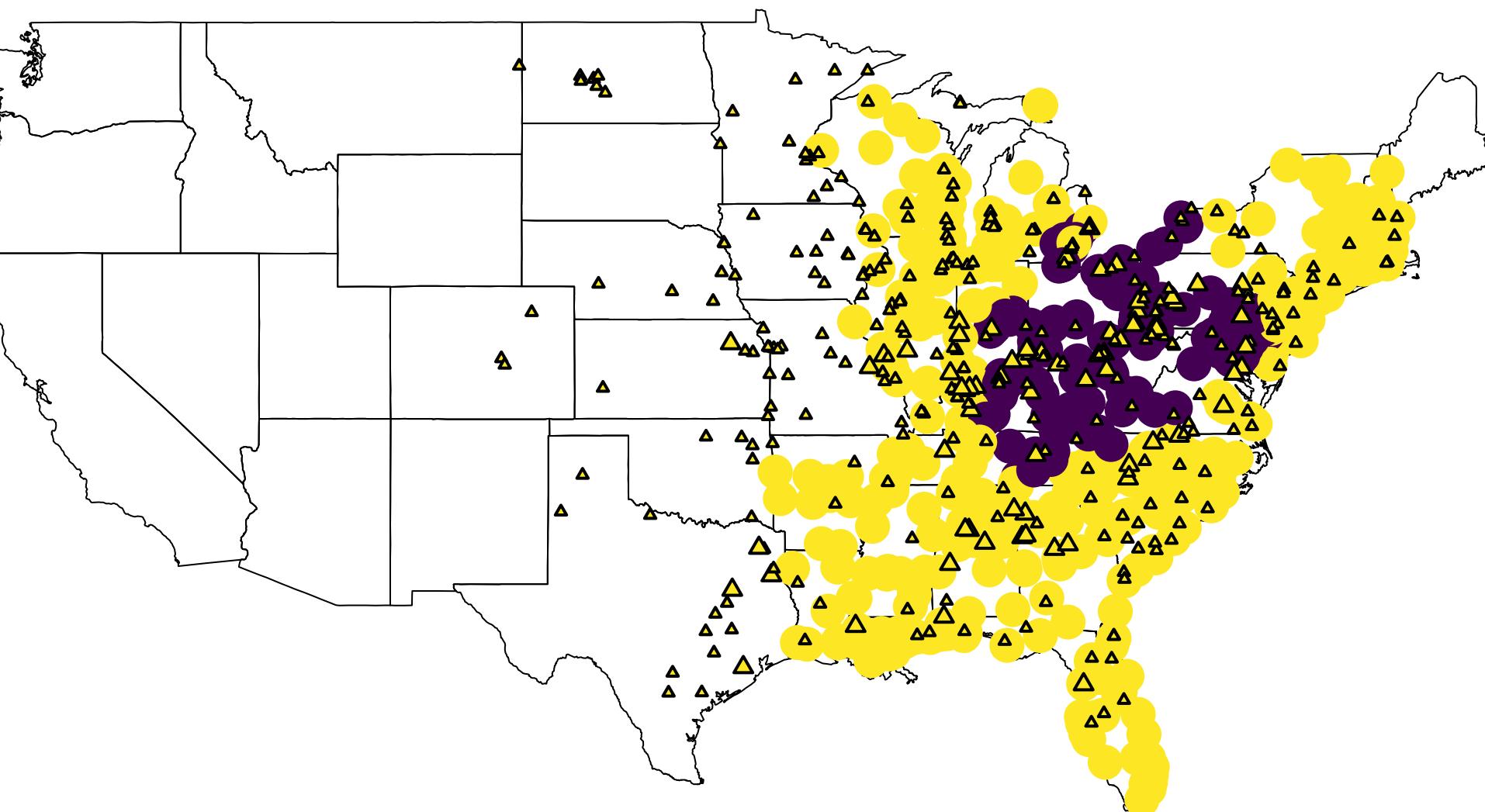
Monitor exposure: avgPM, decomposed75 summer_distLag 2005



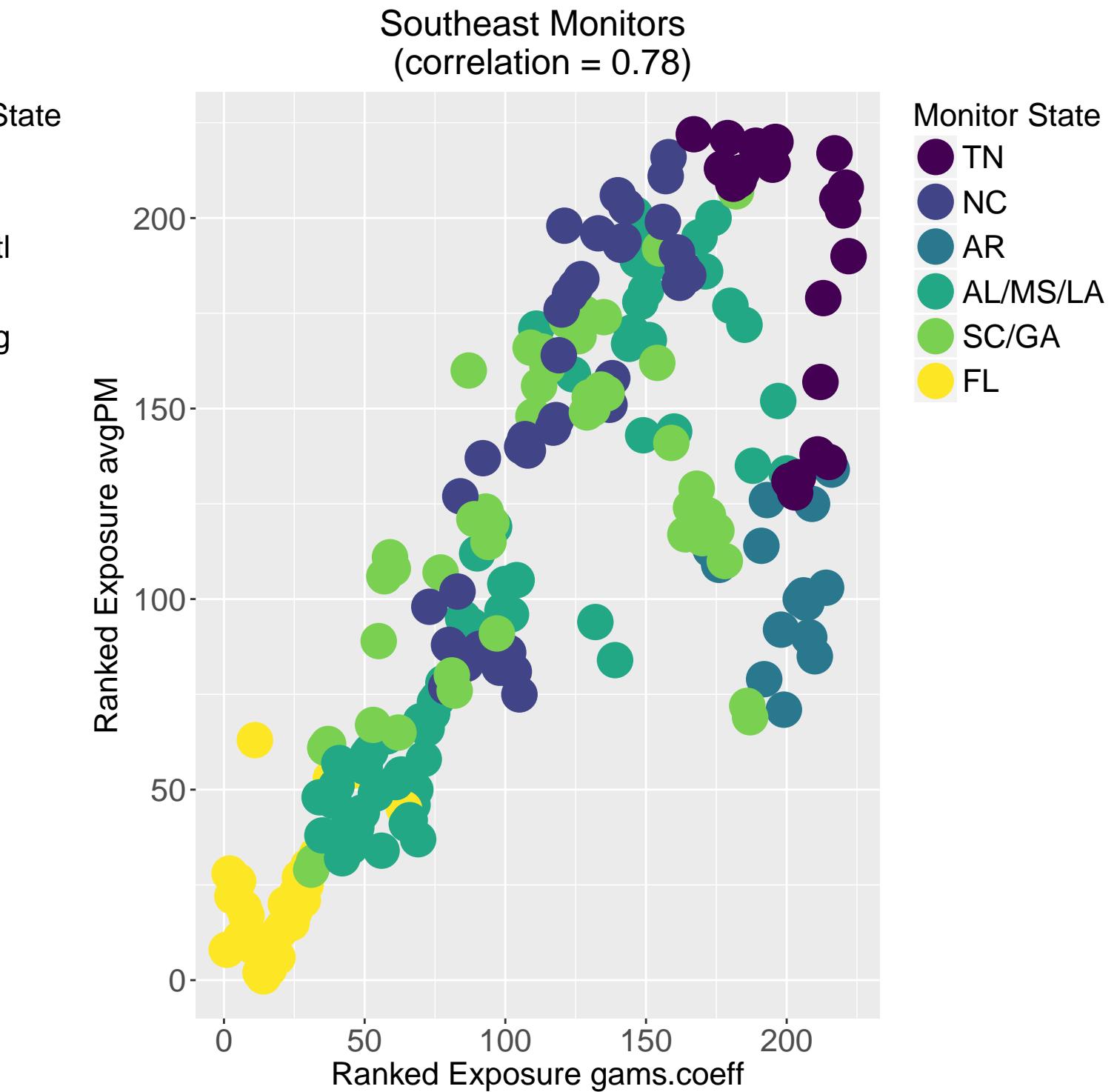
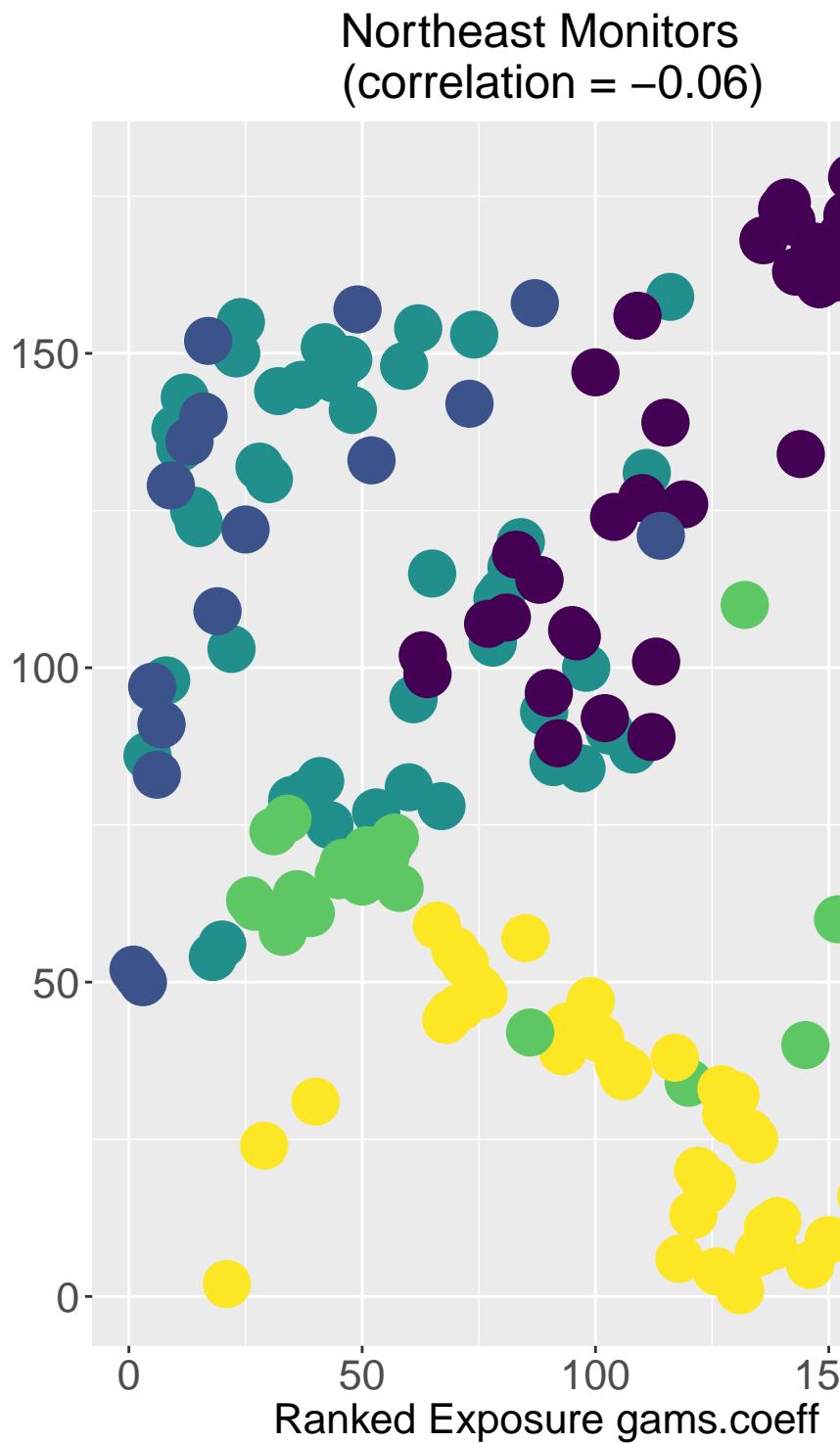
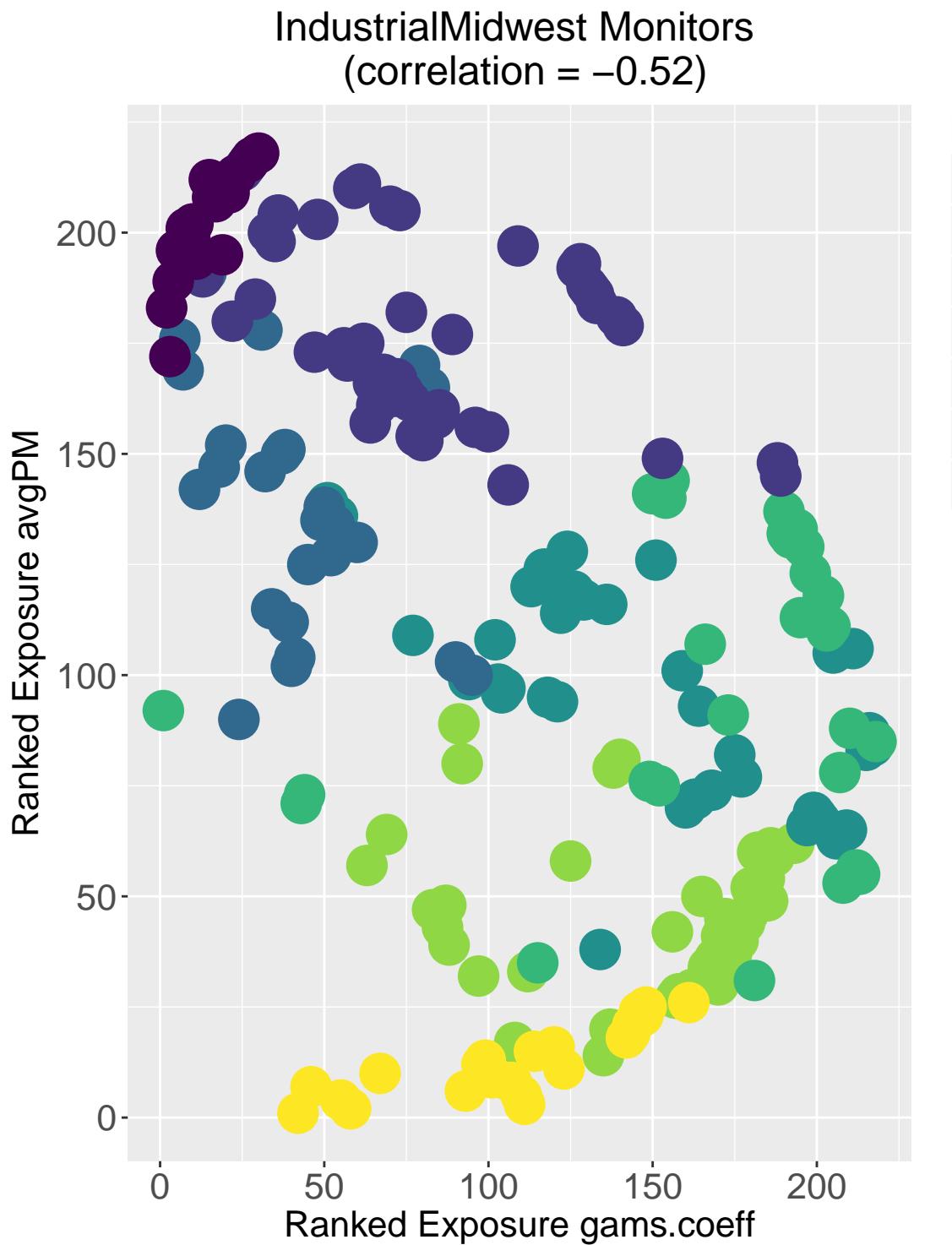
Highest exposed: sum of gams.coeff, summer_distLag 2005



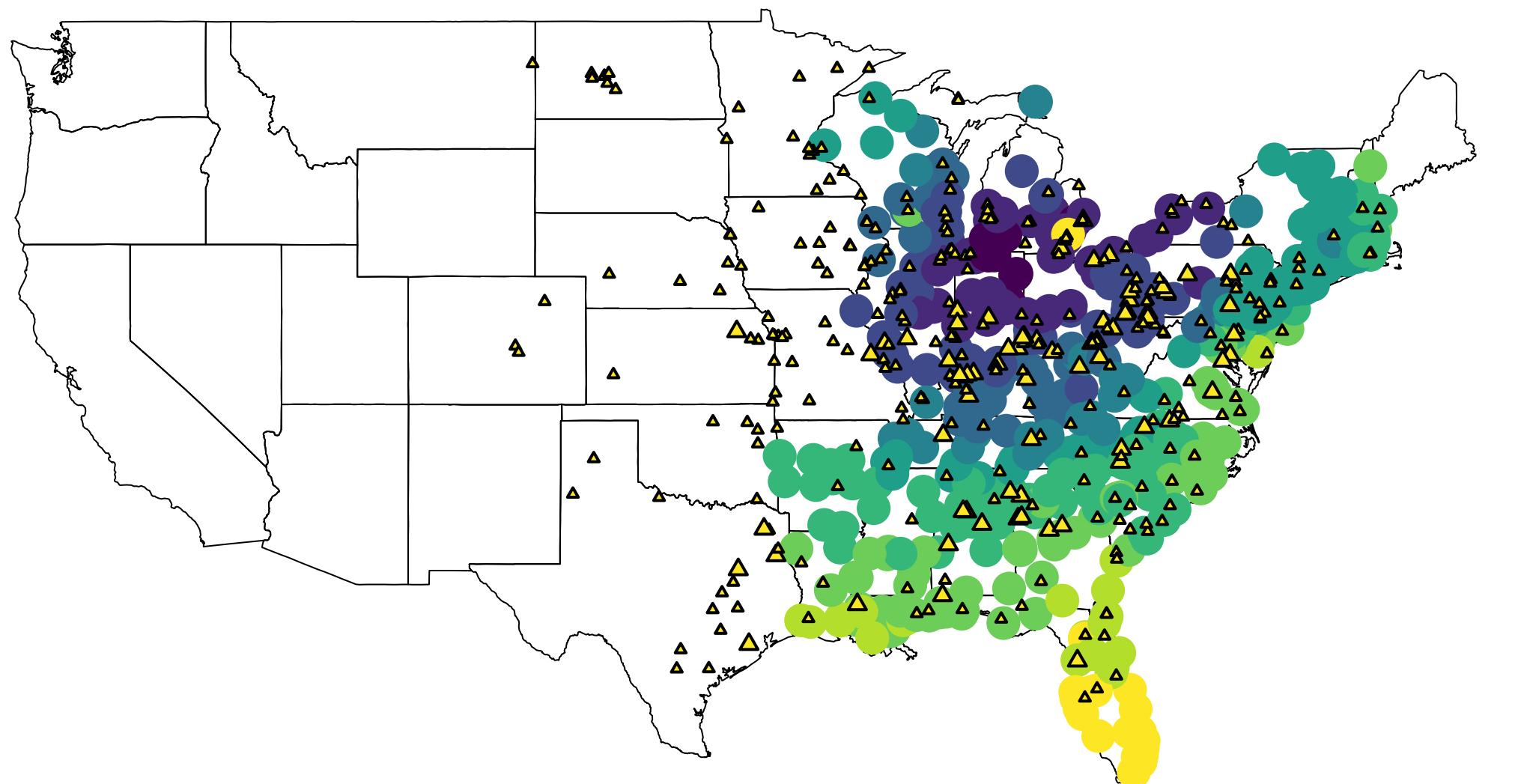
Highest exposed: avgPM, decomposed75 summer_distLag 2005



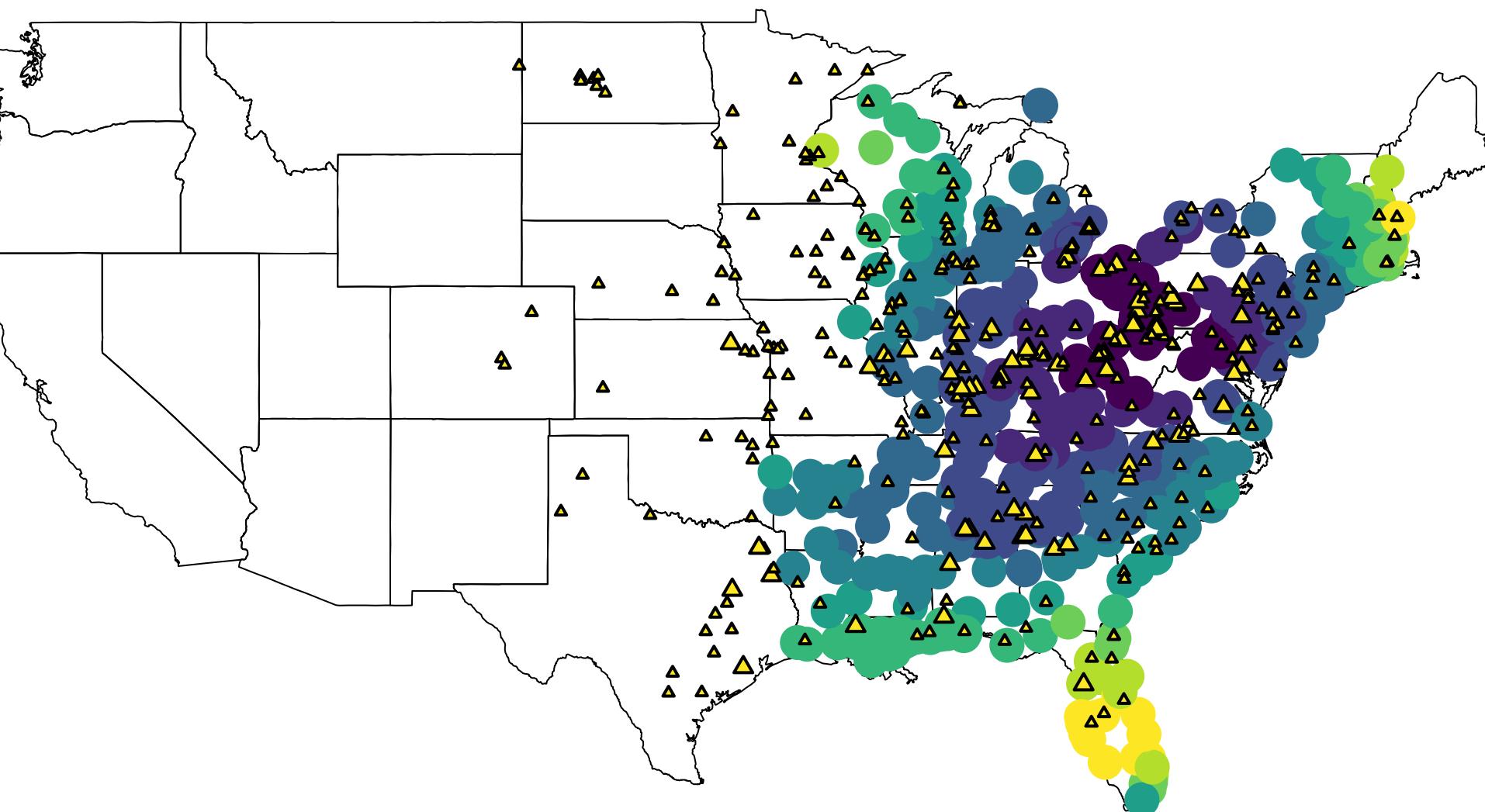
Comparison of coal emissions exposure (sum of gams.coeff vs. low freq PM)



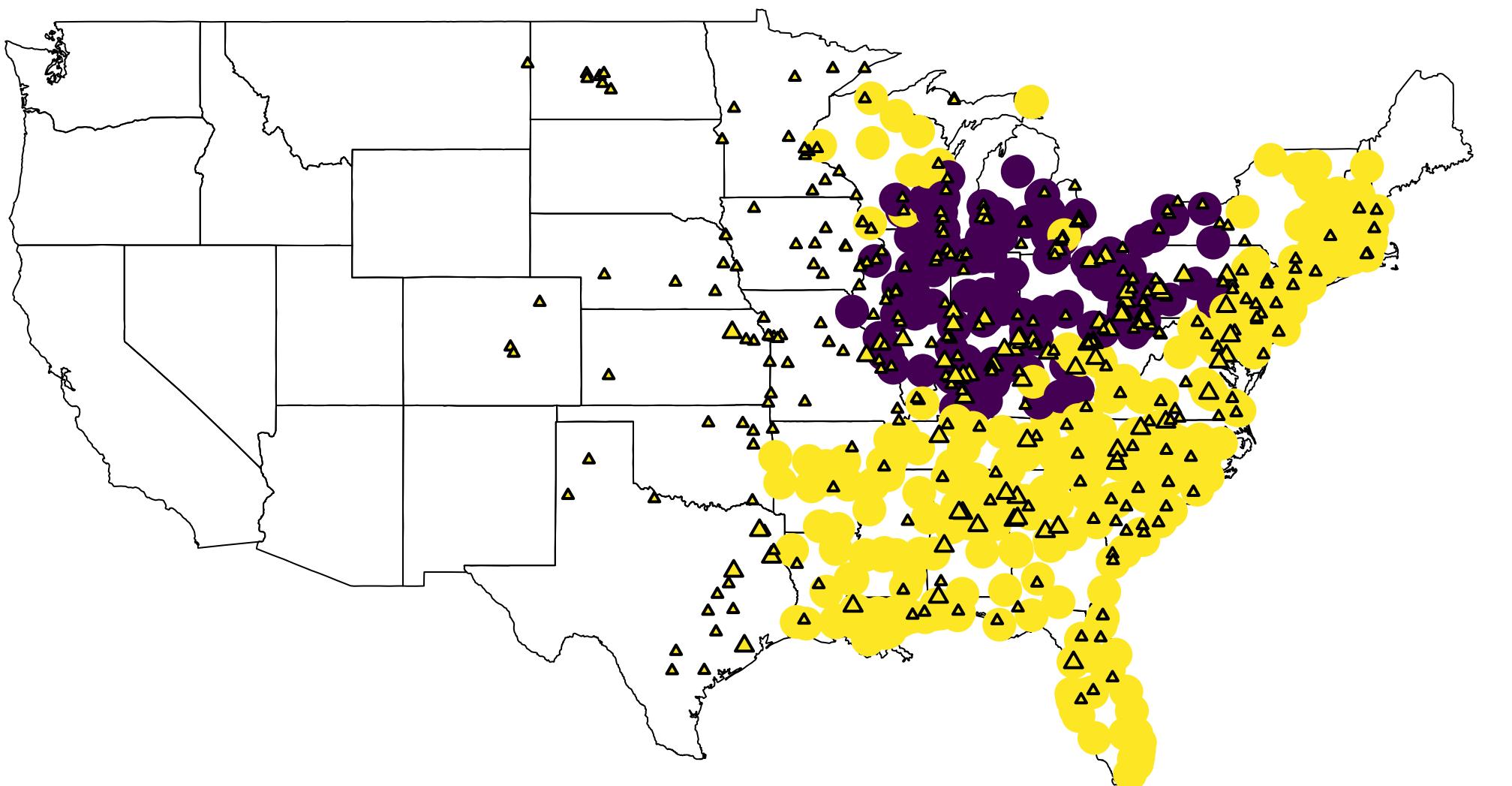
Monitor exposure: num_edges, summer_distLag 2005



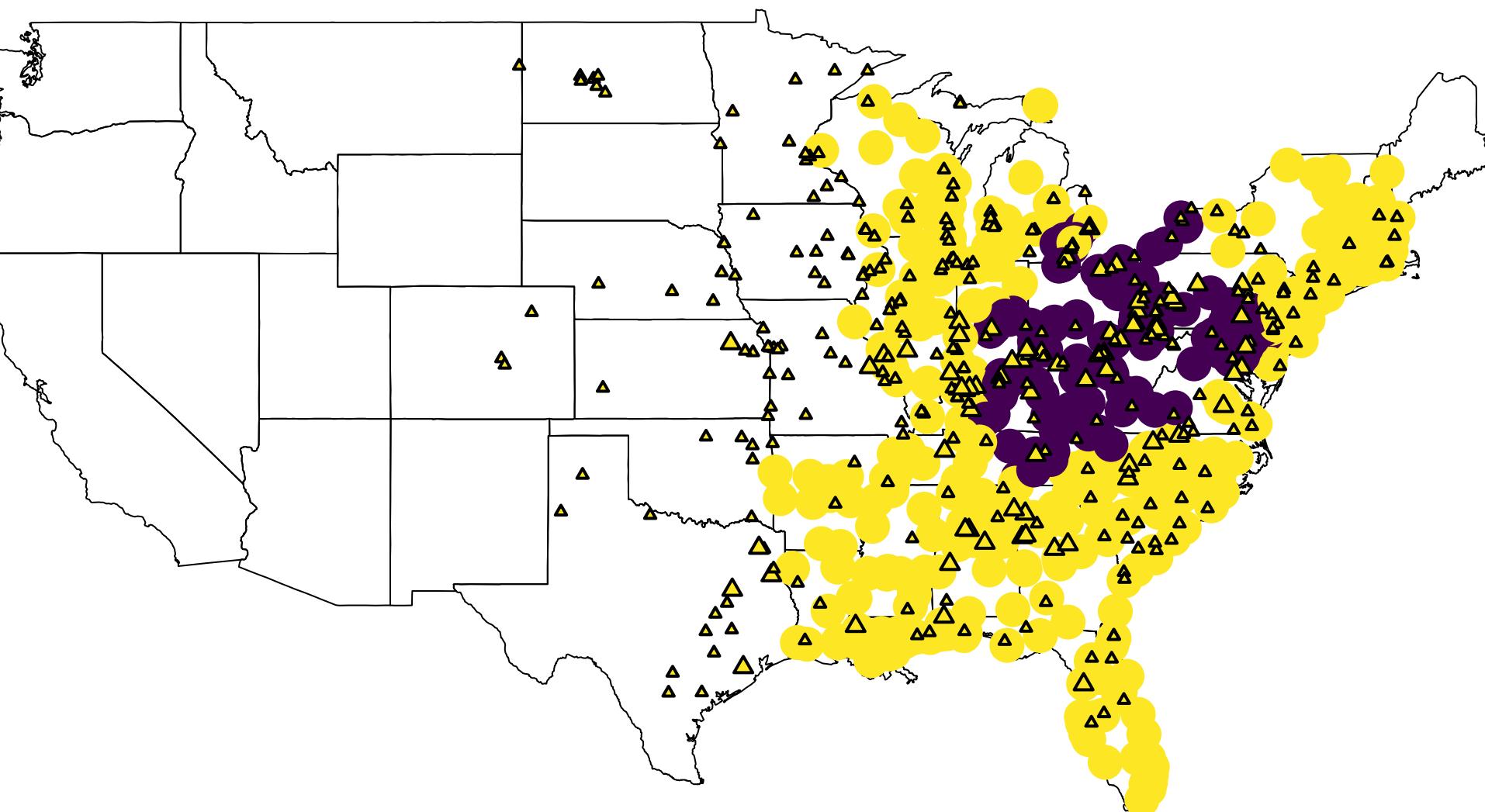
Monitor exposure: avgPM, decomposed75 summer_distLag 2005



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)

