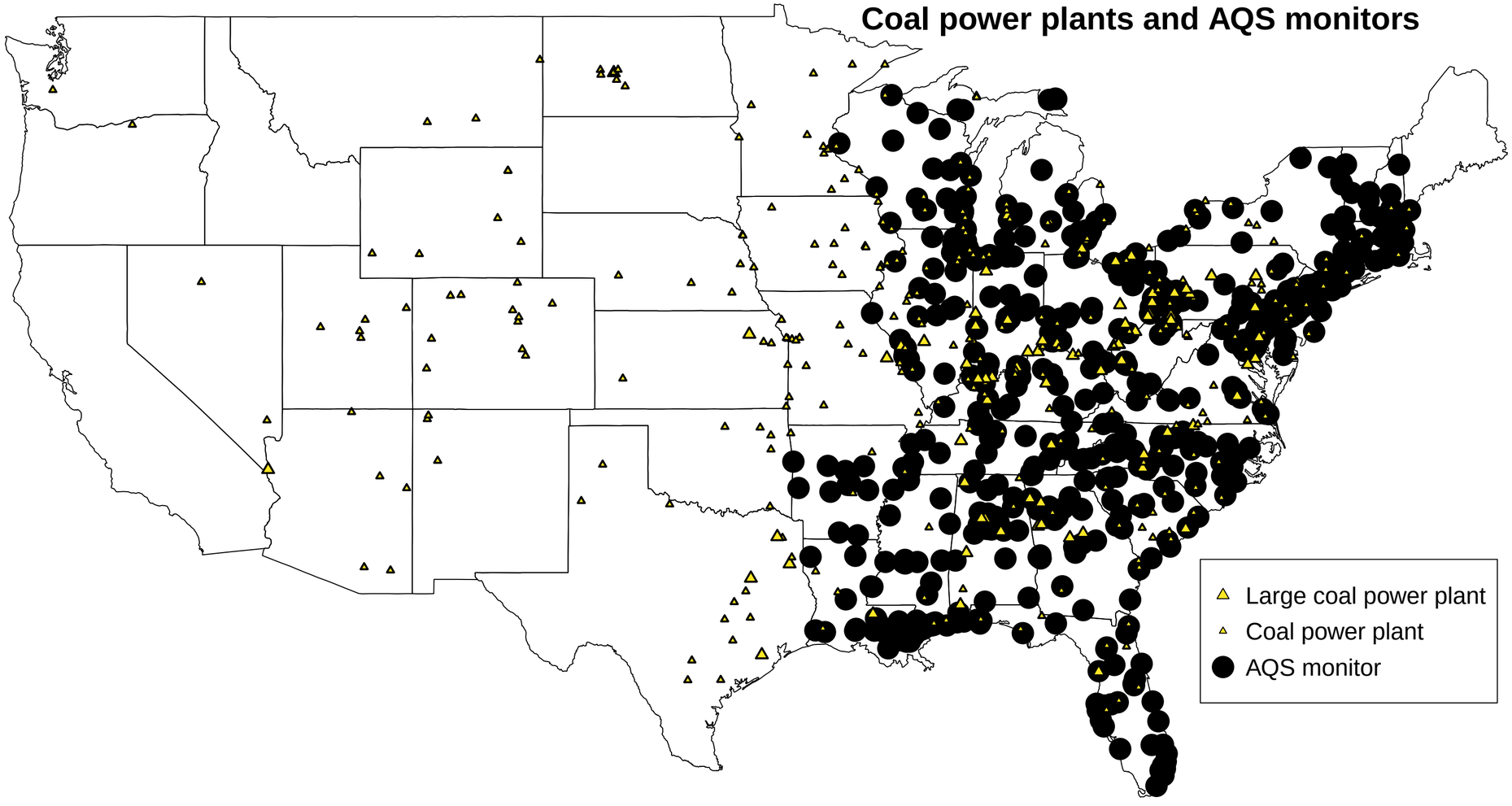
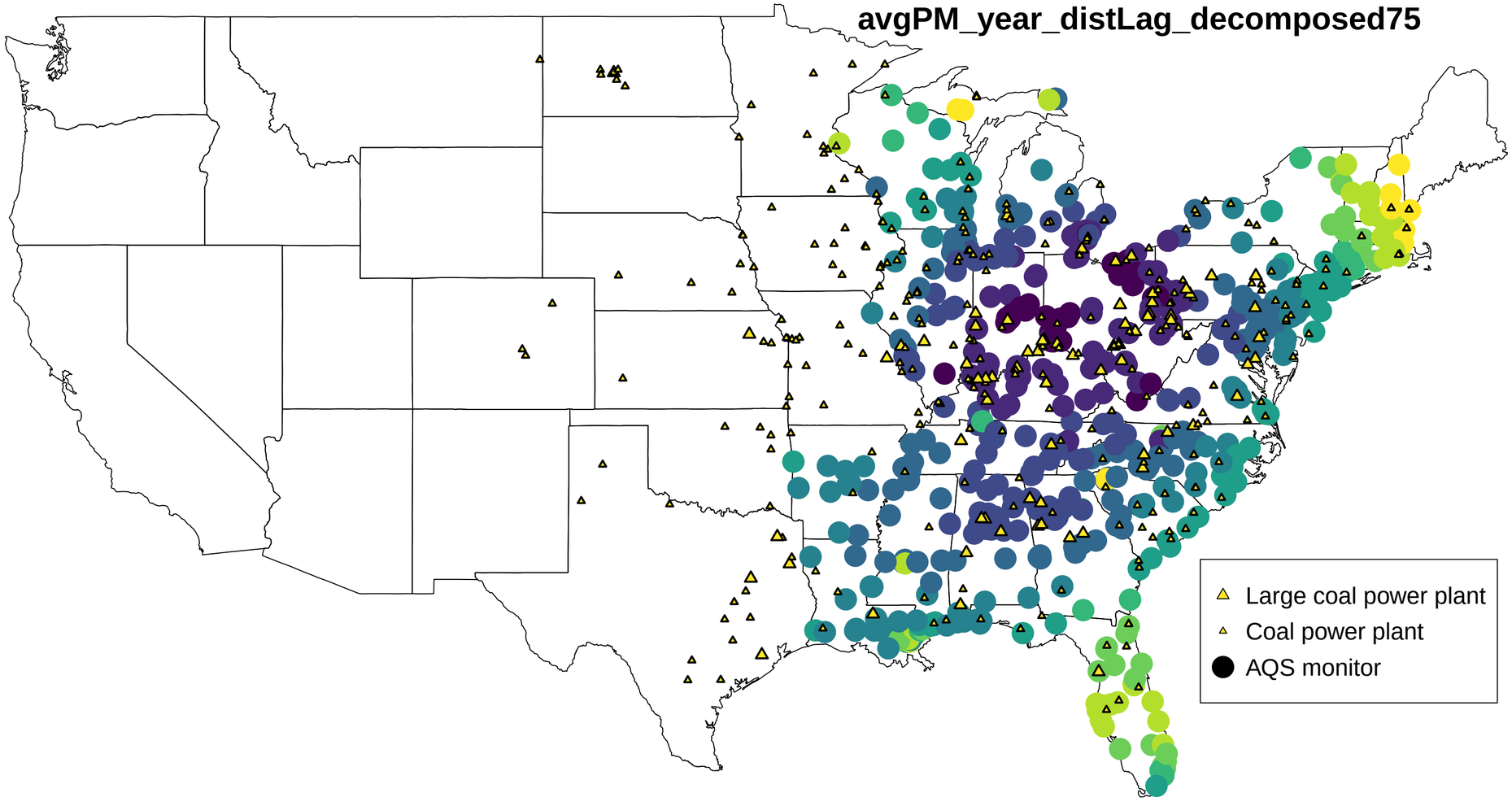
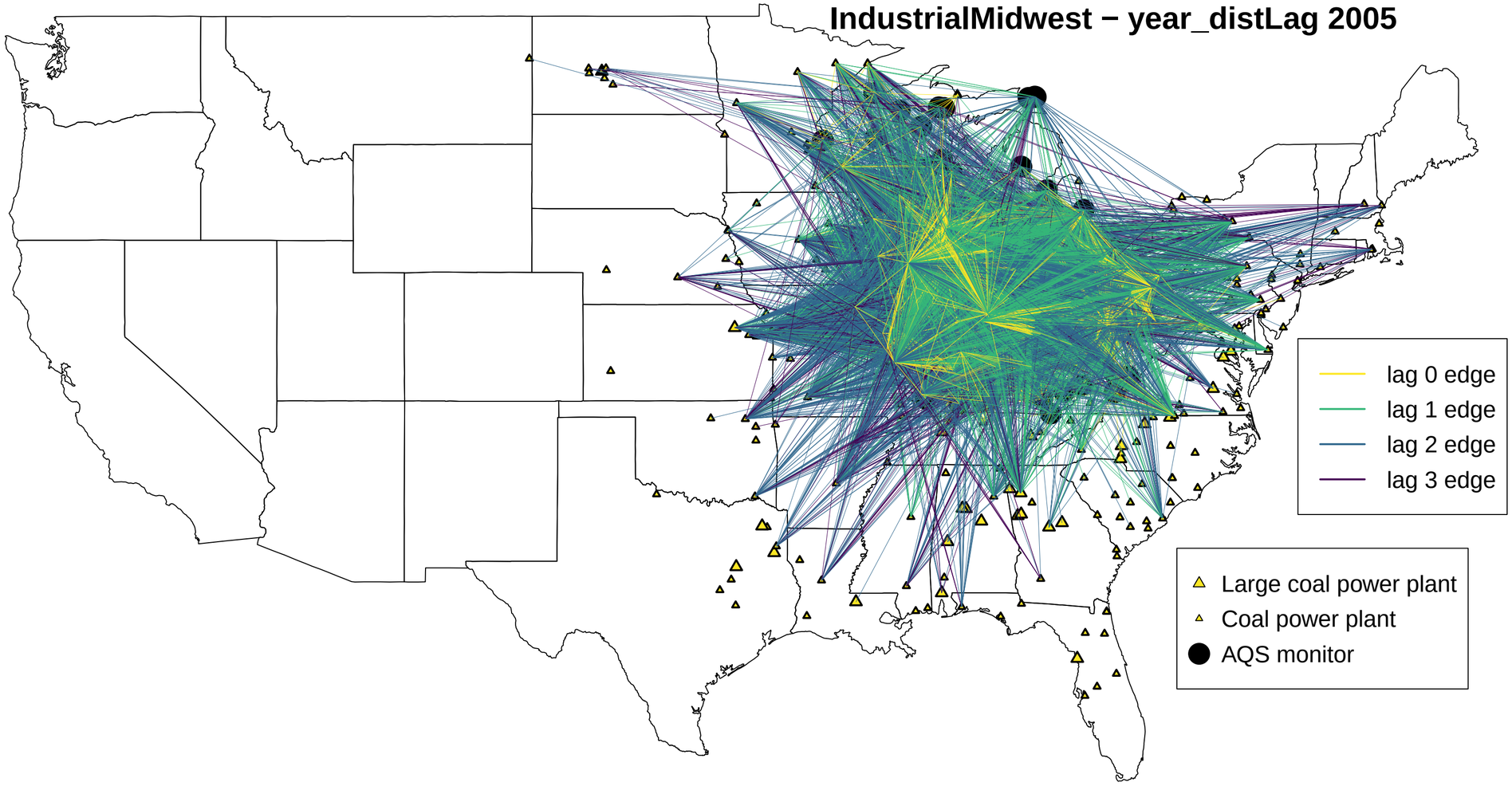
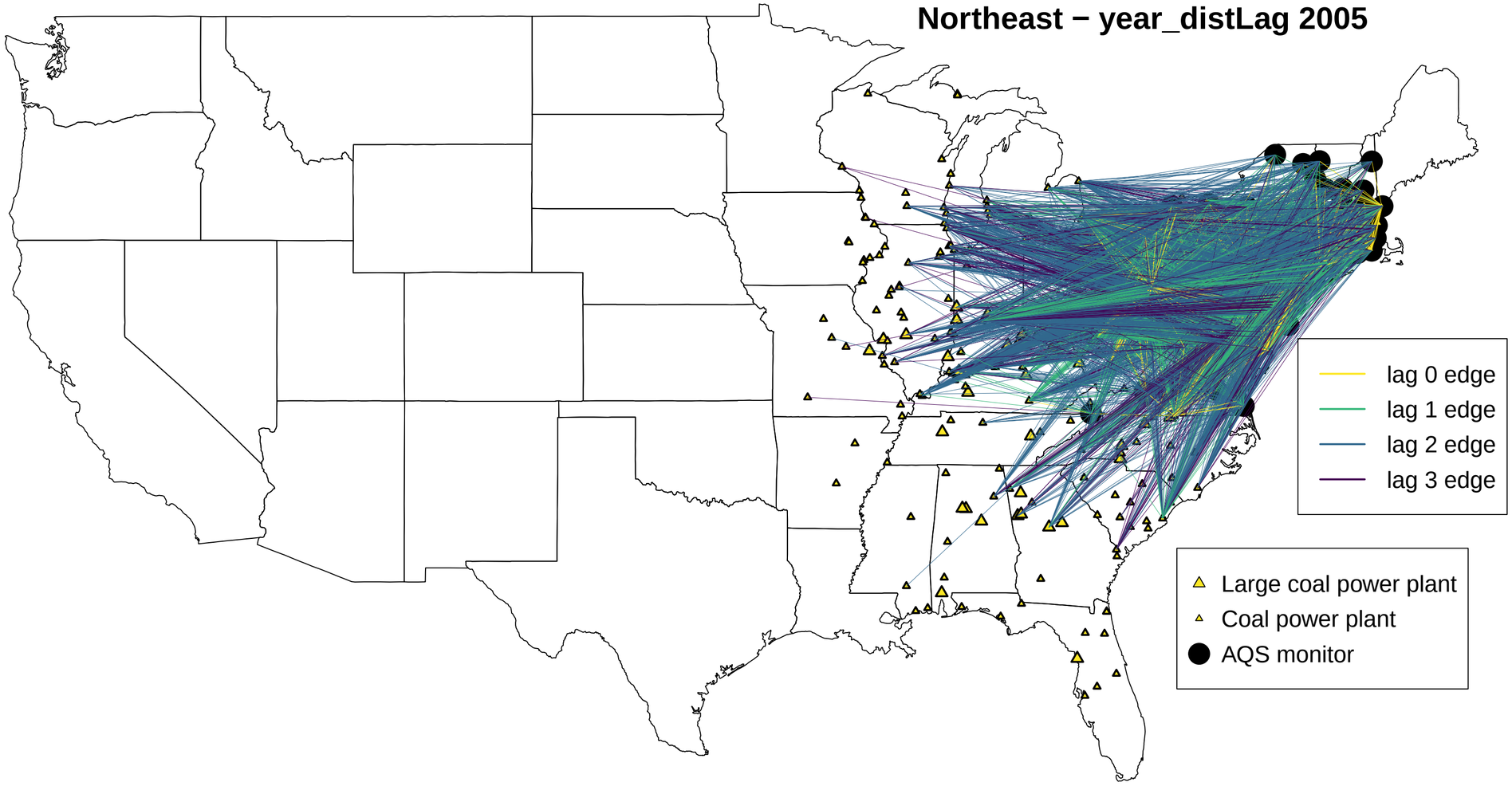
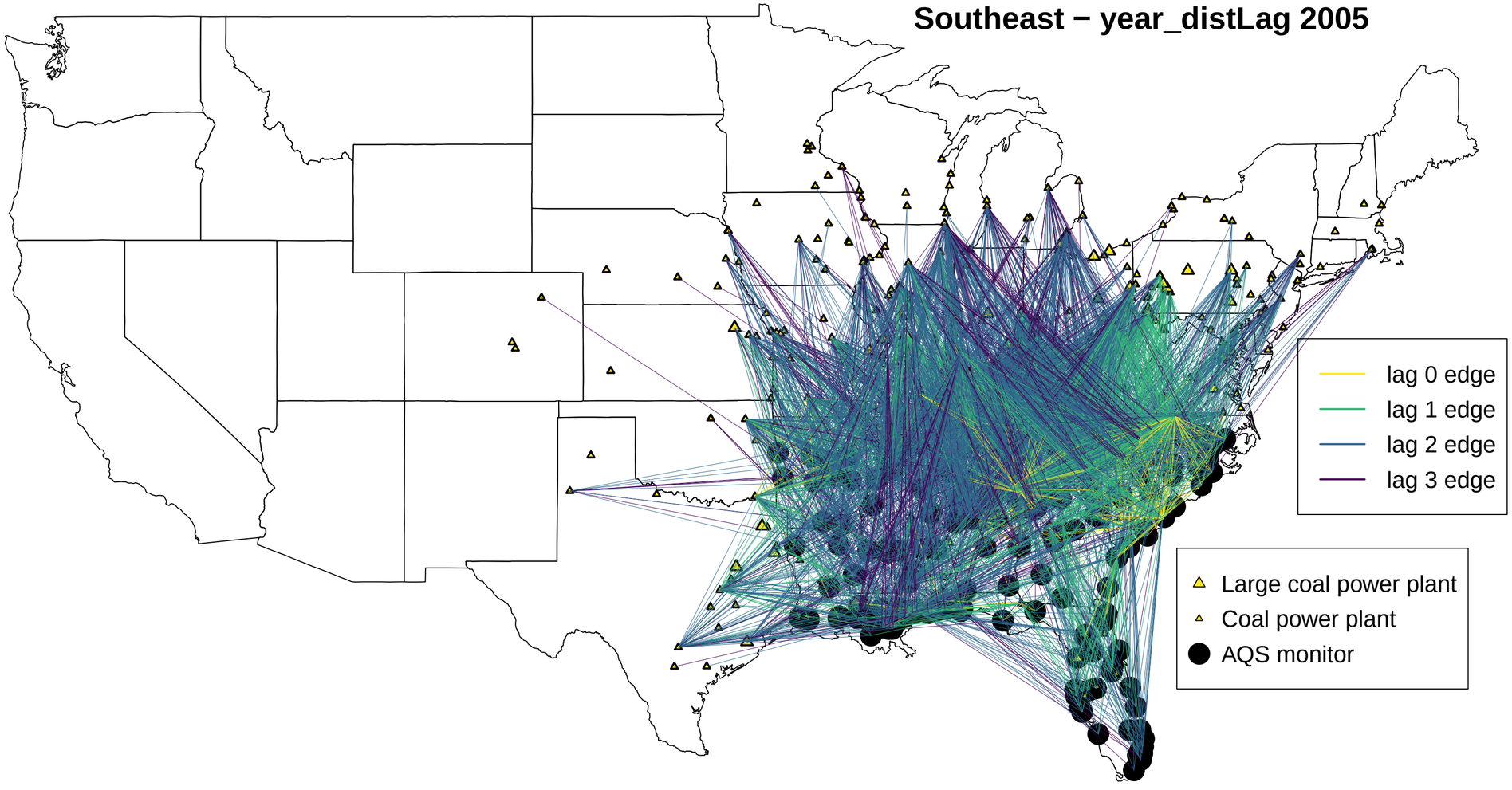
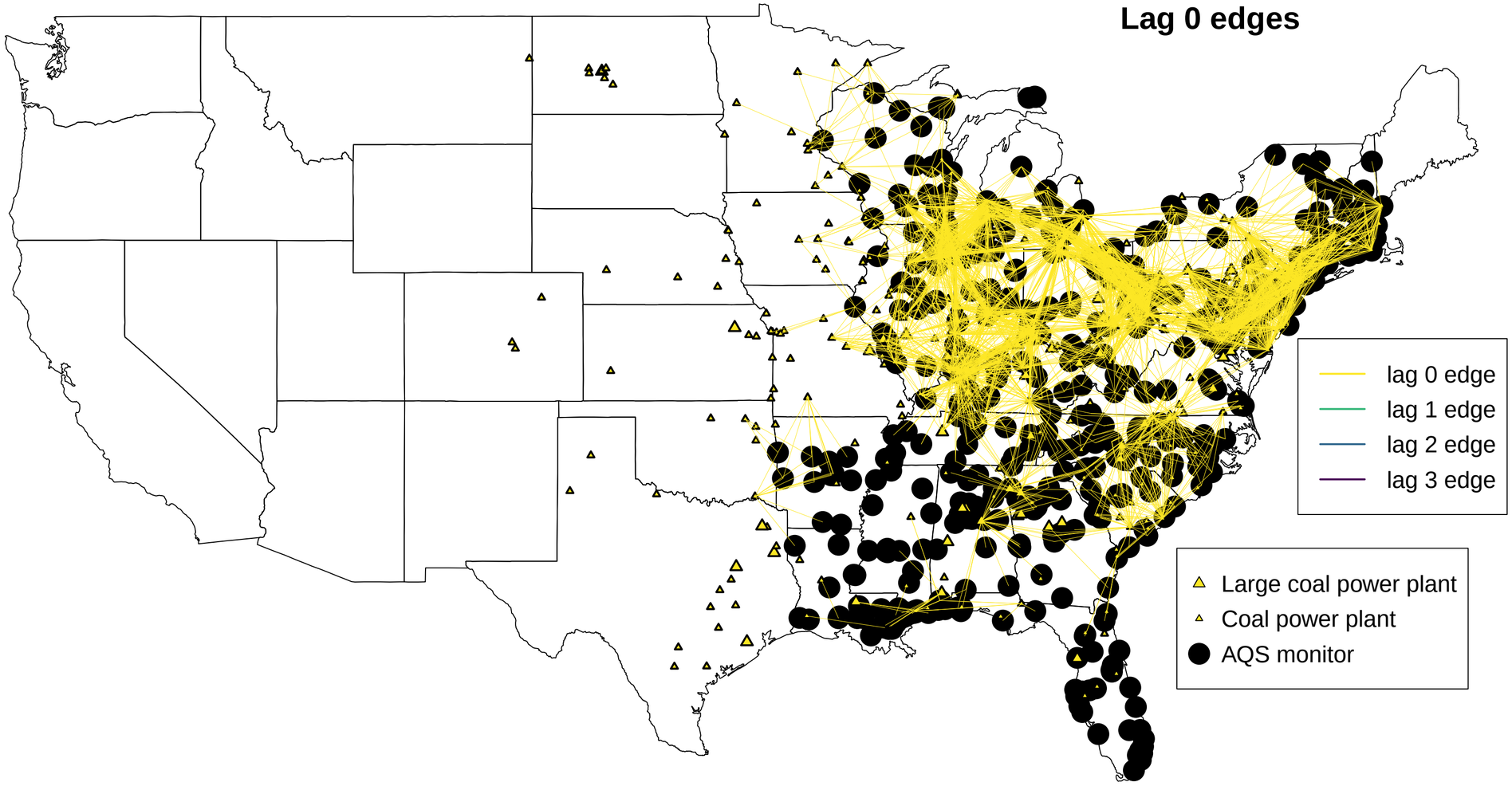

Coal power plants and AQS monitors
Large coal power plant
Coal power plant
AQS monitor

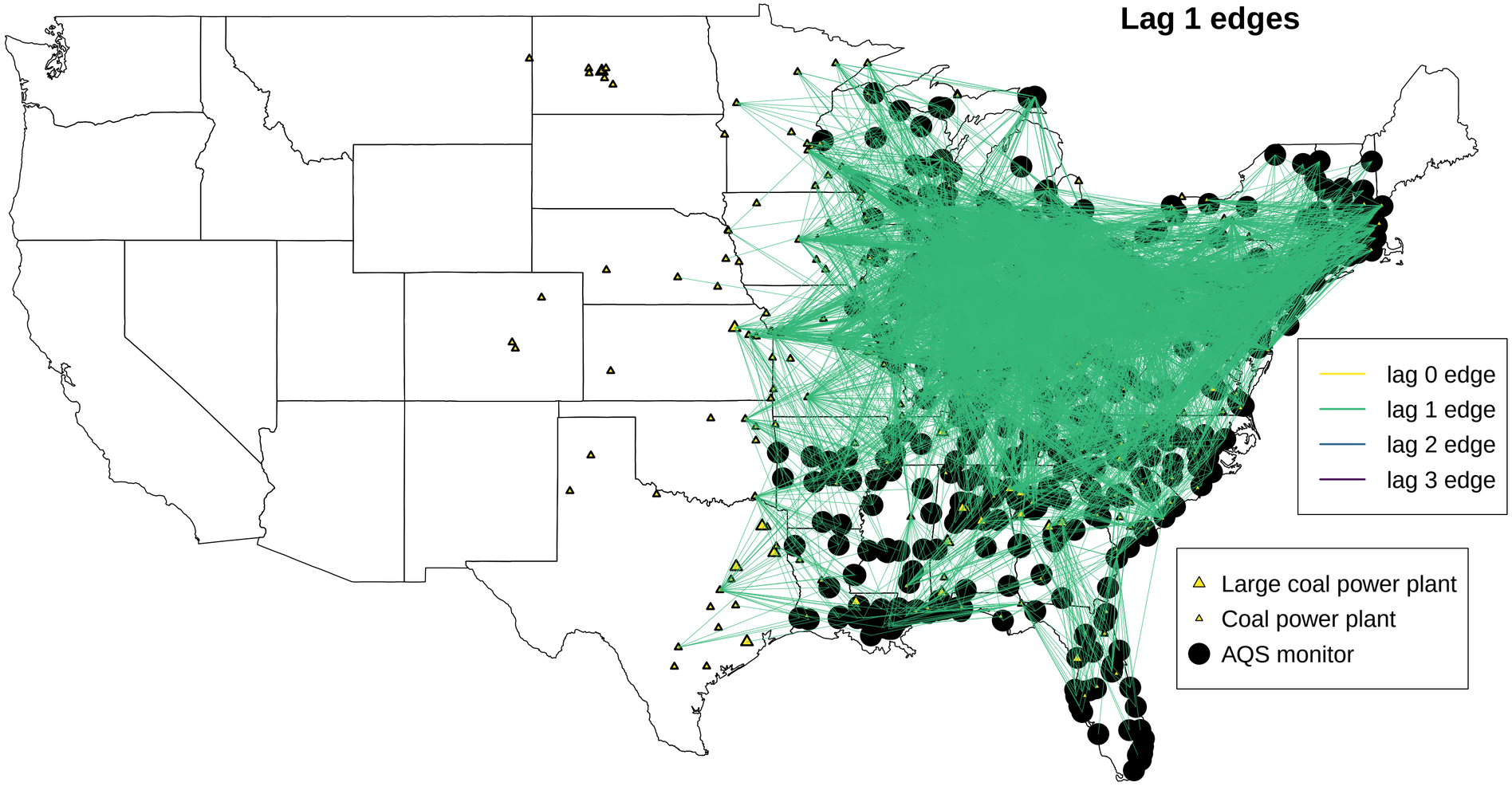

avgPM_year_distLag_decomposed75
Large coal power plant
Coal power plant
AQS monitor

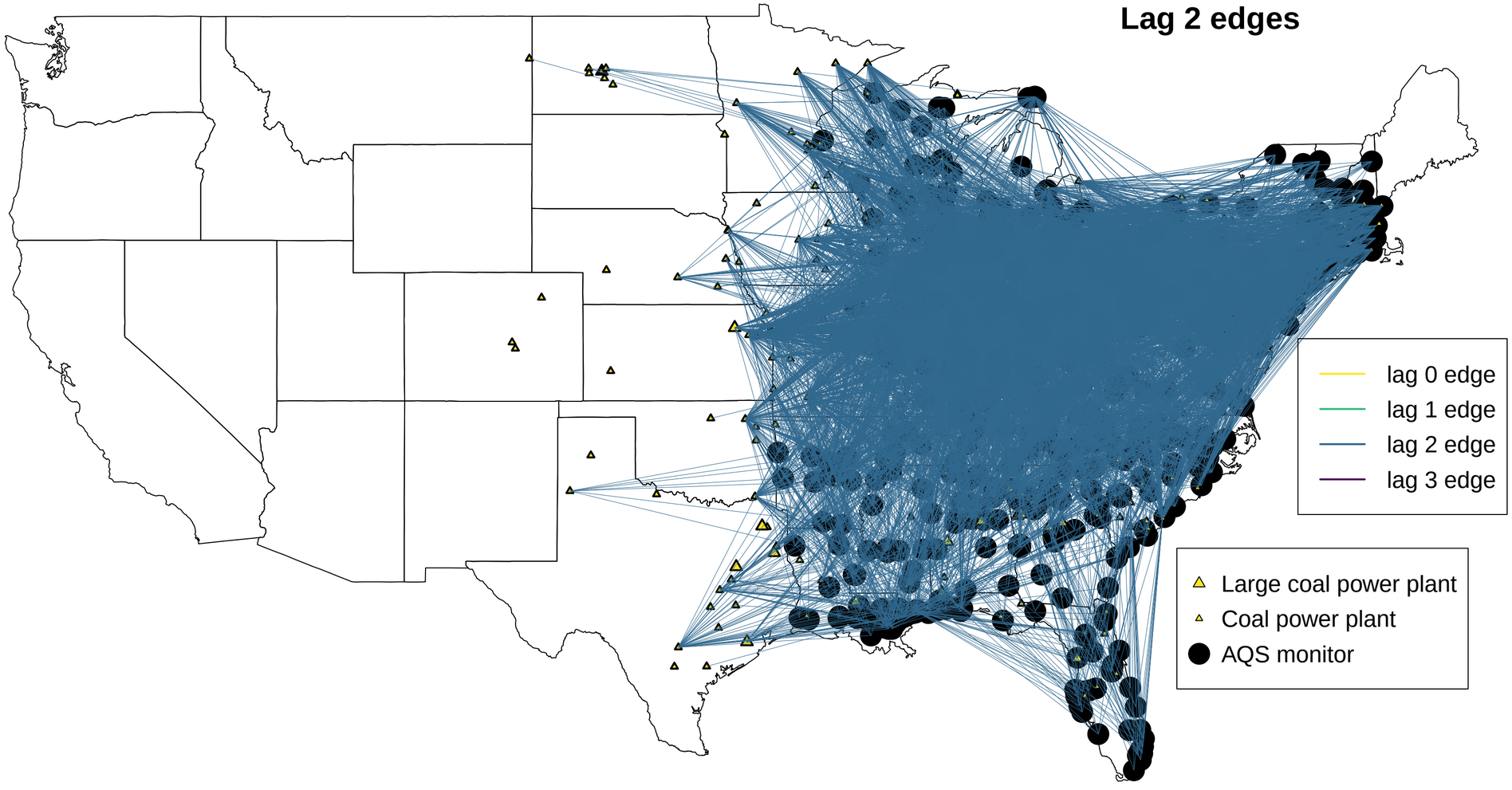

IndustrialMidwest − year_distLag 2005
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

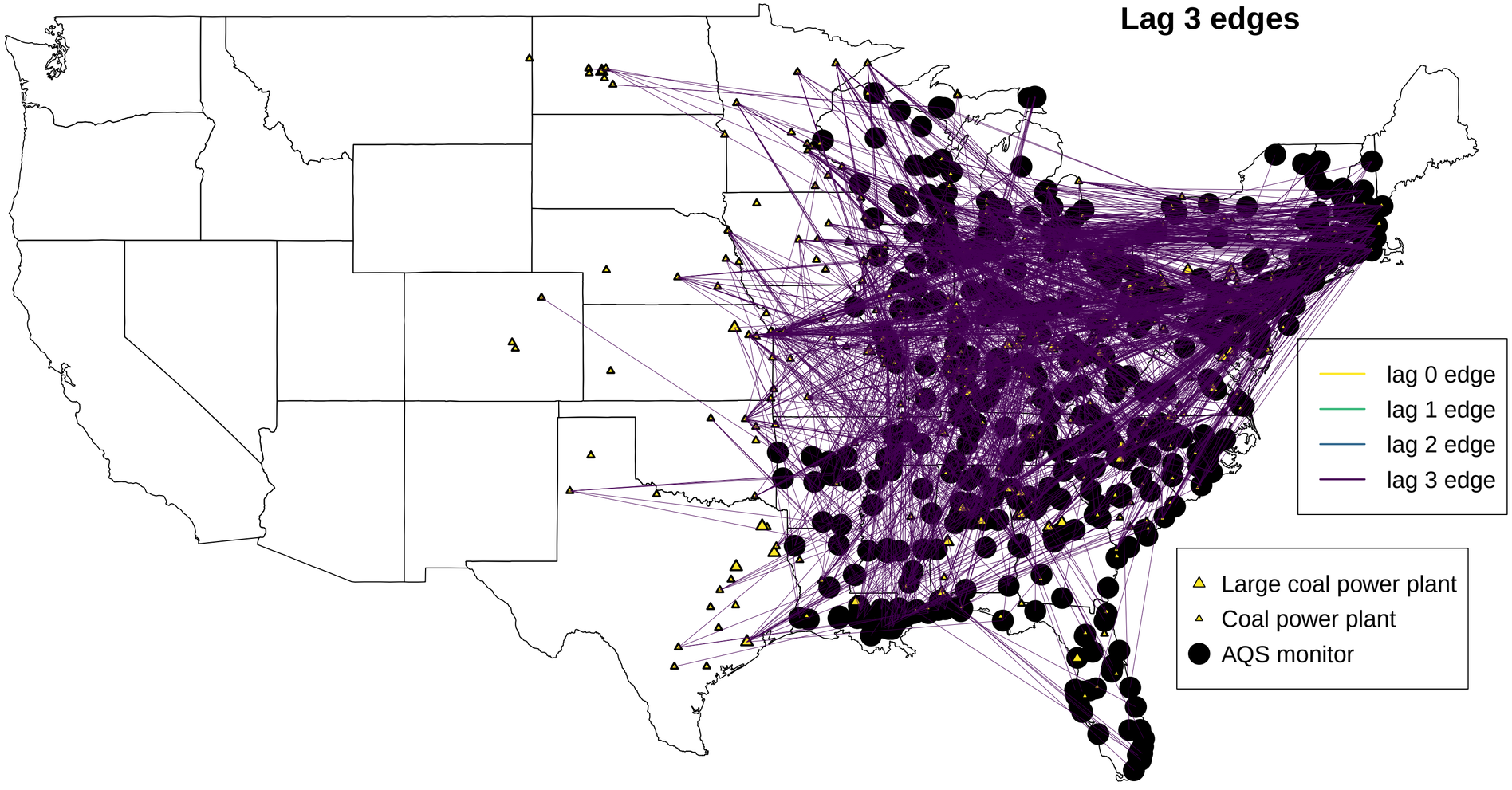

Northeast − year_distLag 2005
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

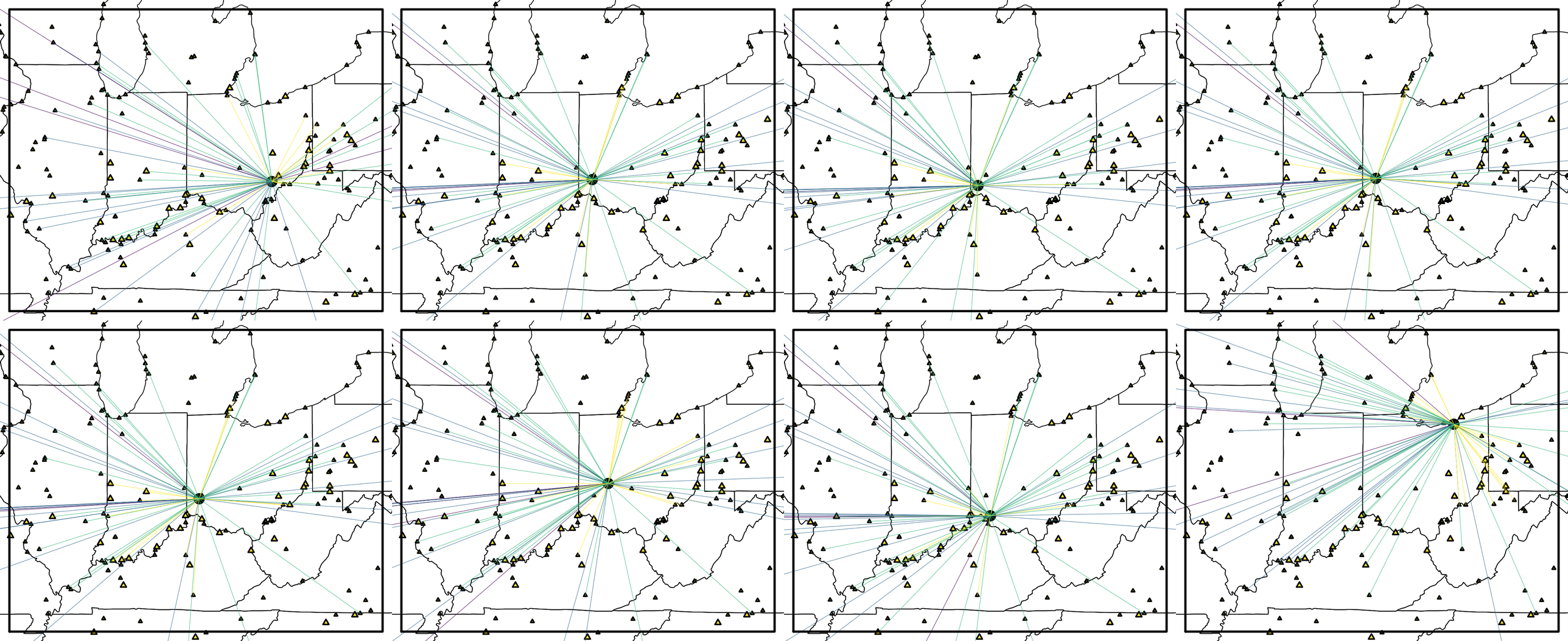

Southeast − year_distLag 2005
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

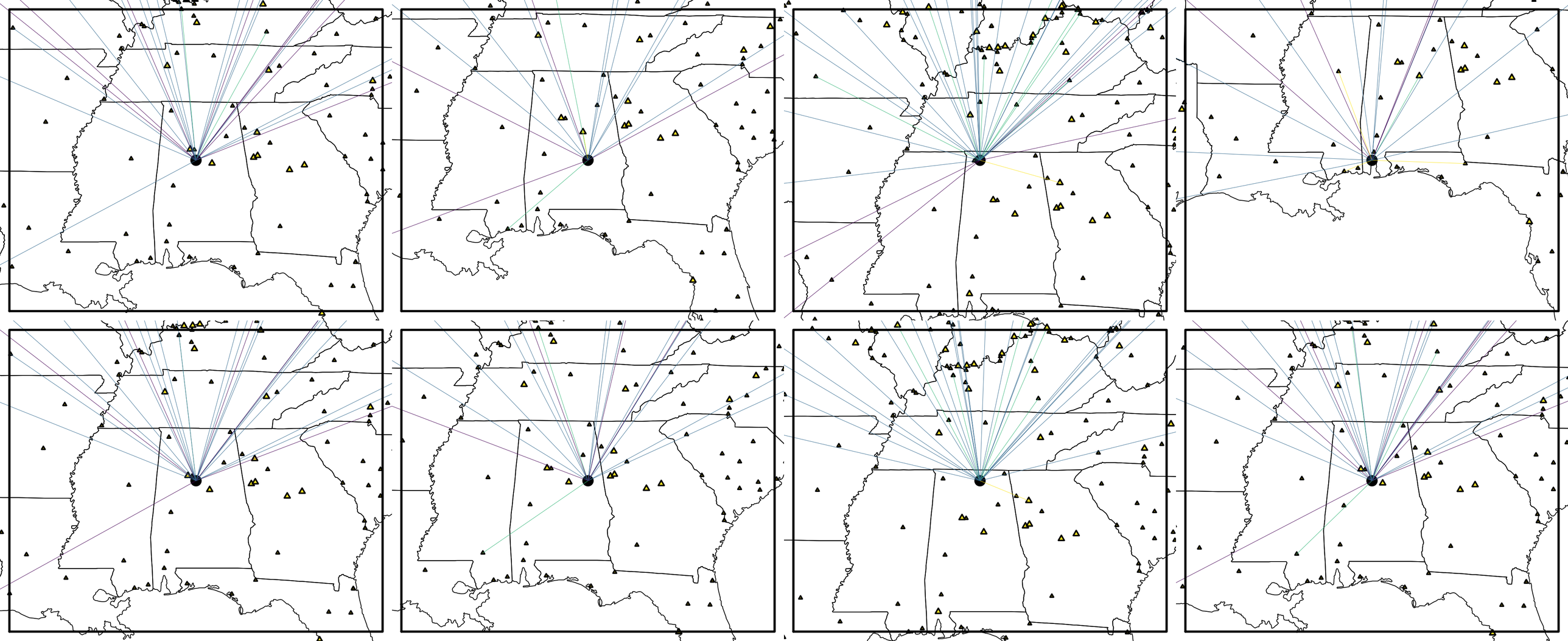

Lag 0 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

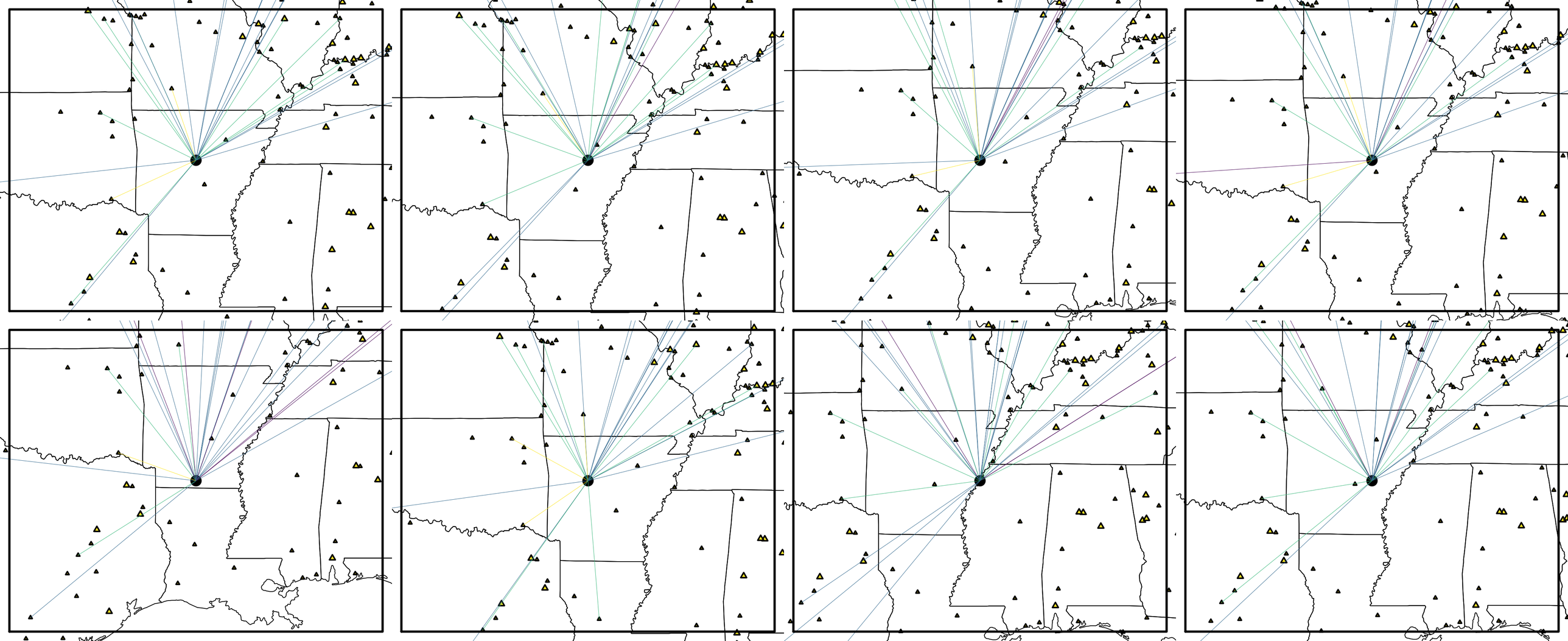

Lag 1 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

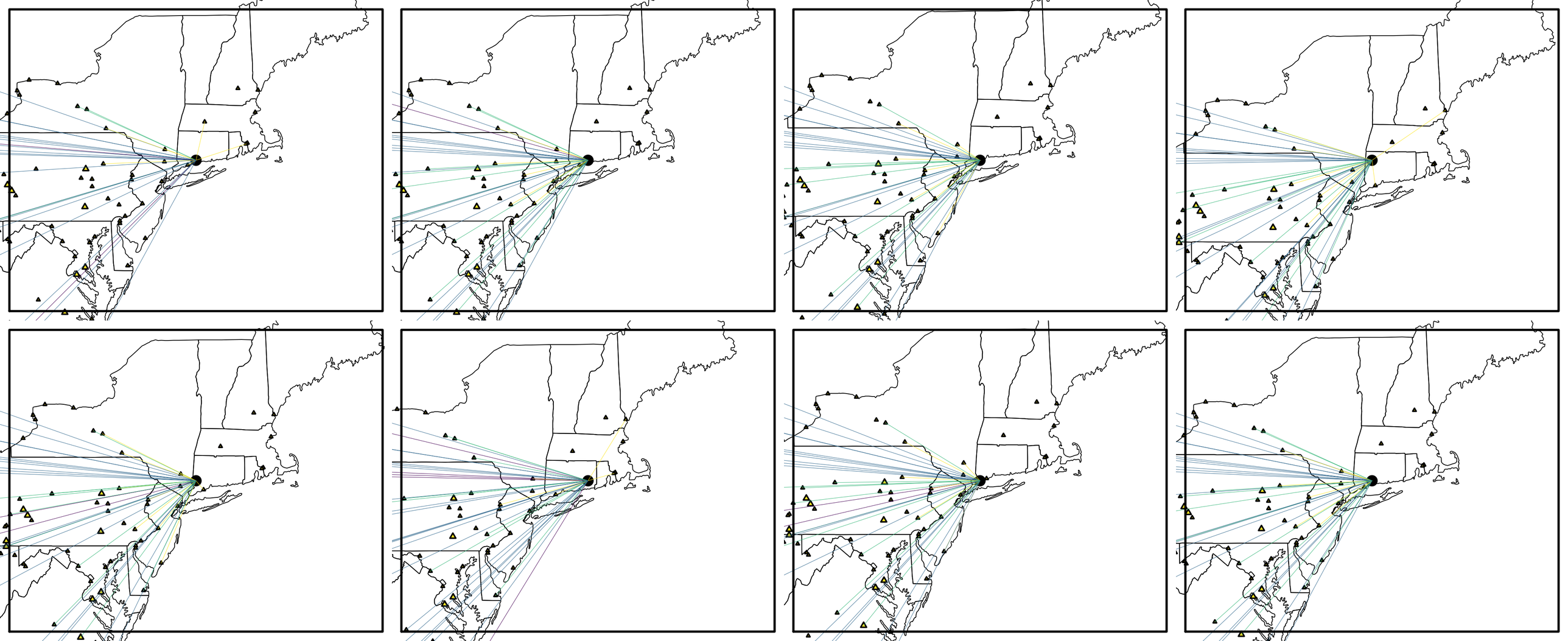

Lag 2 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

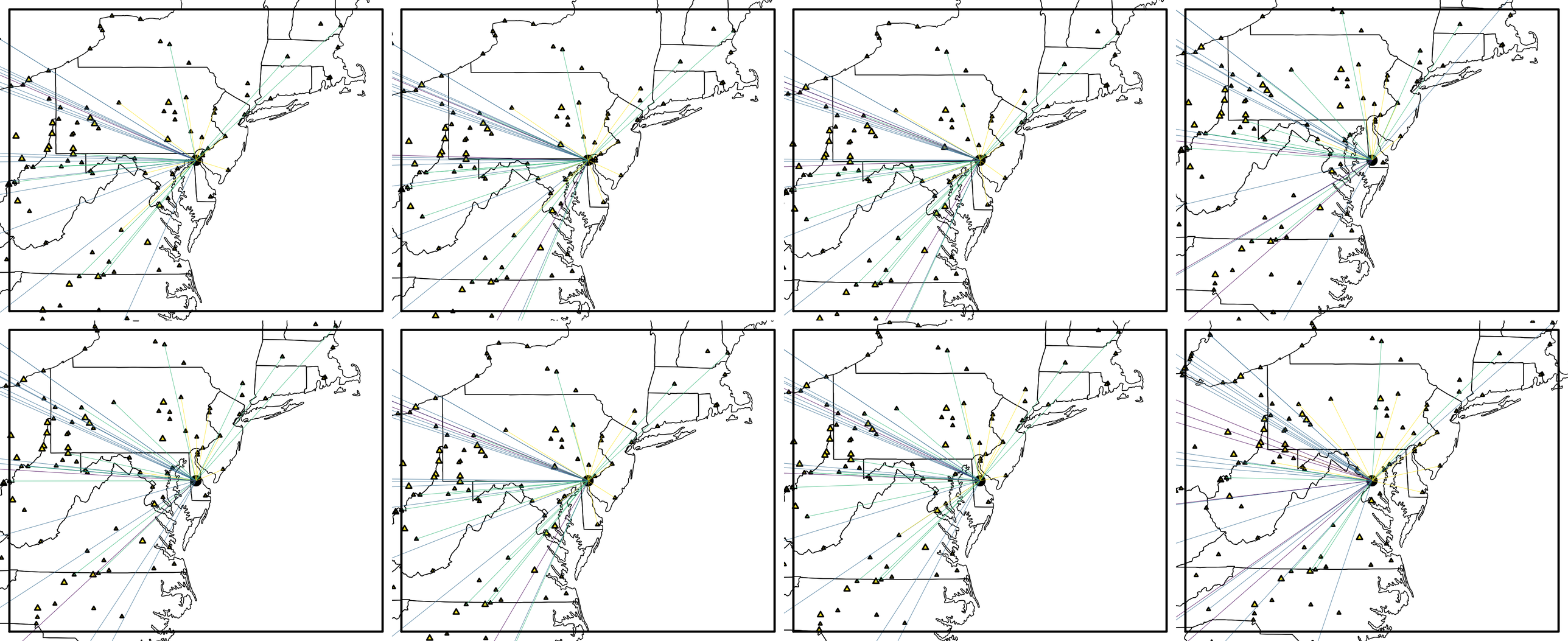

Lag 3 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

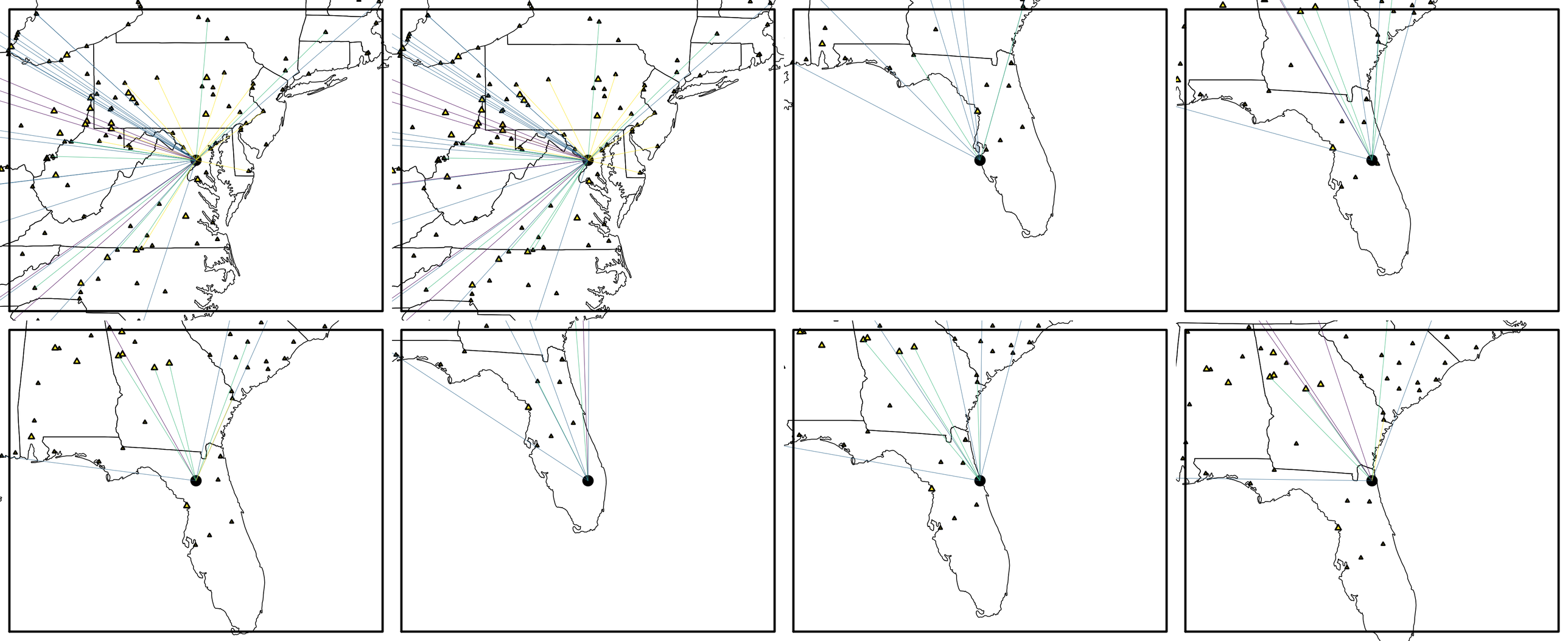


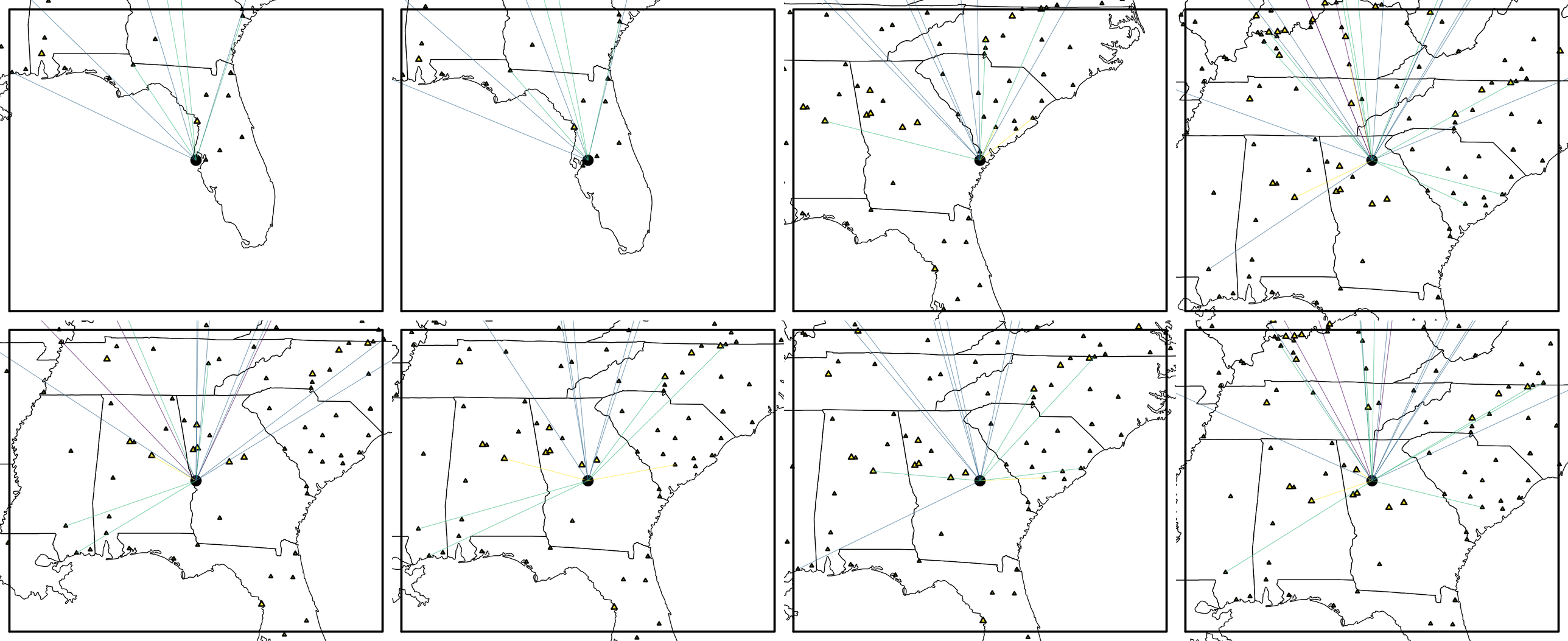


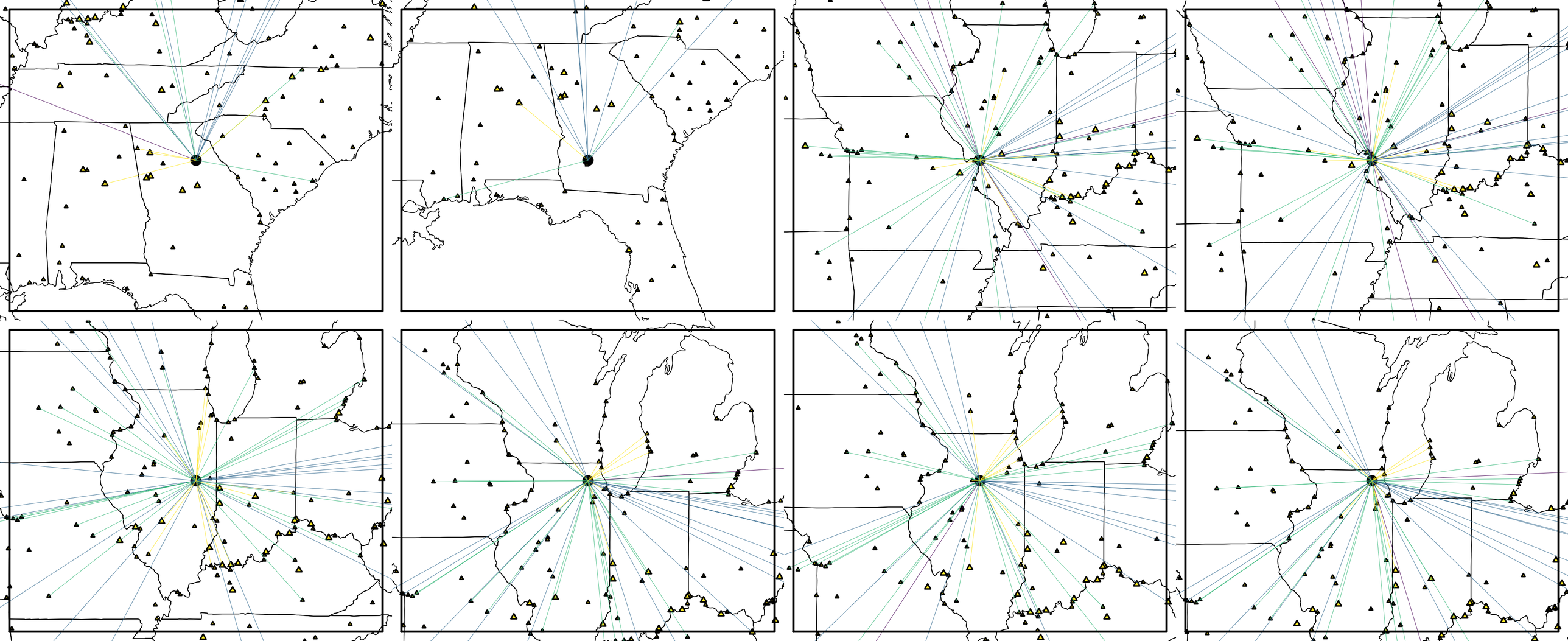


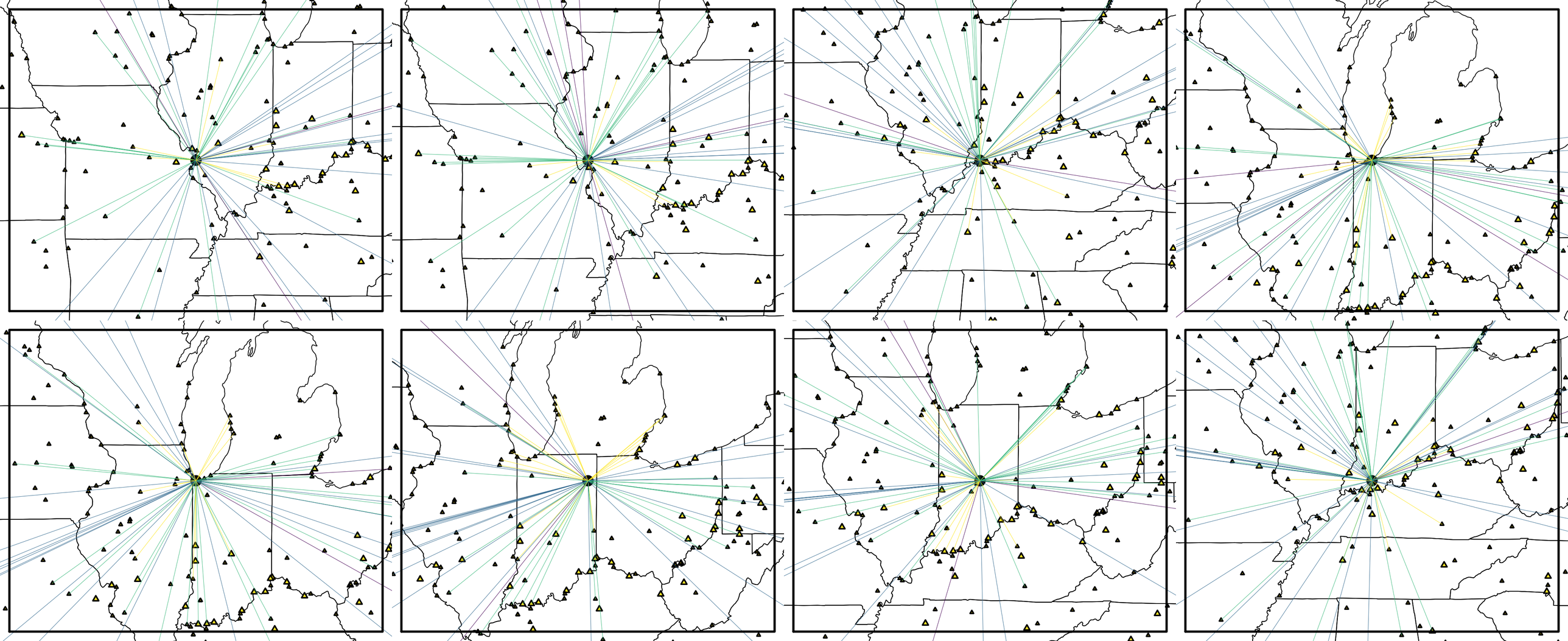


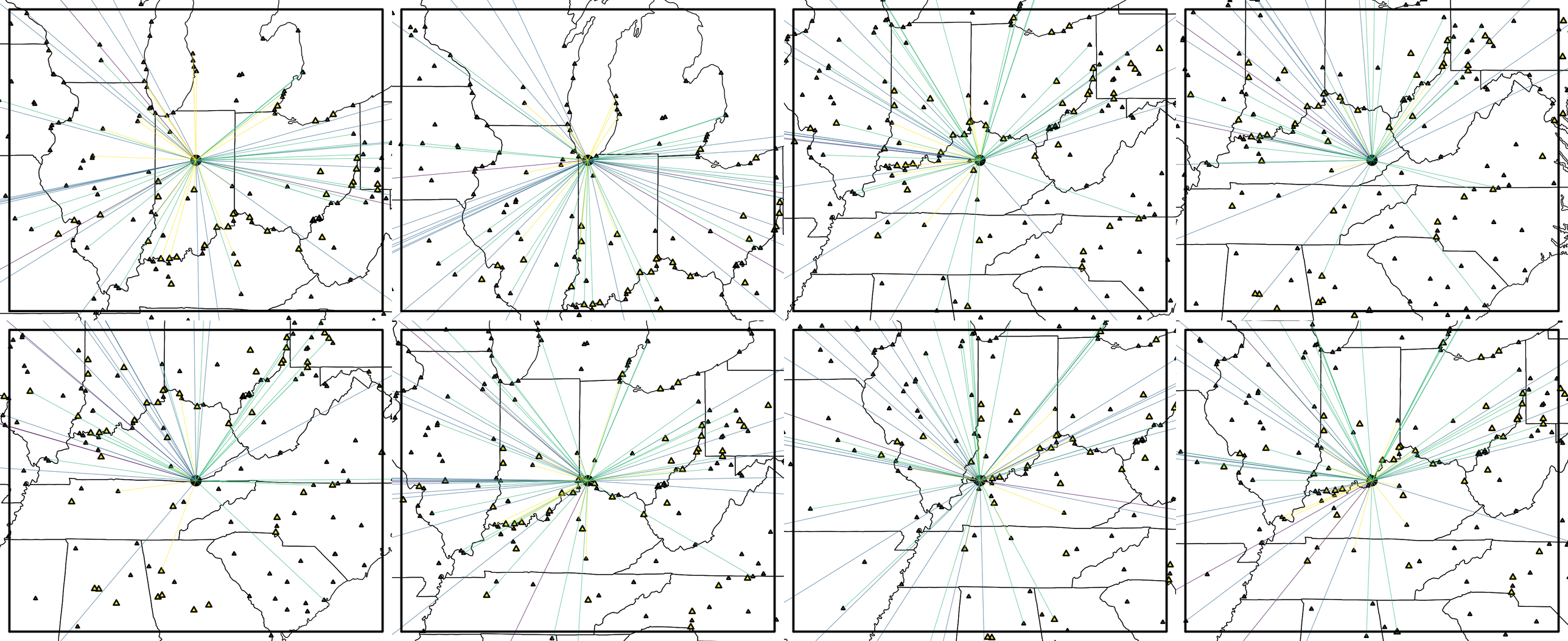


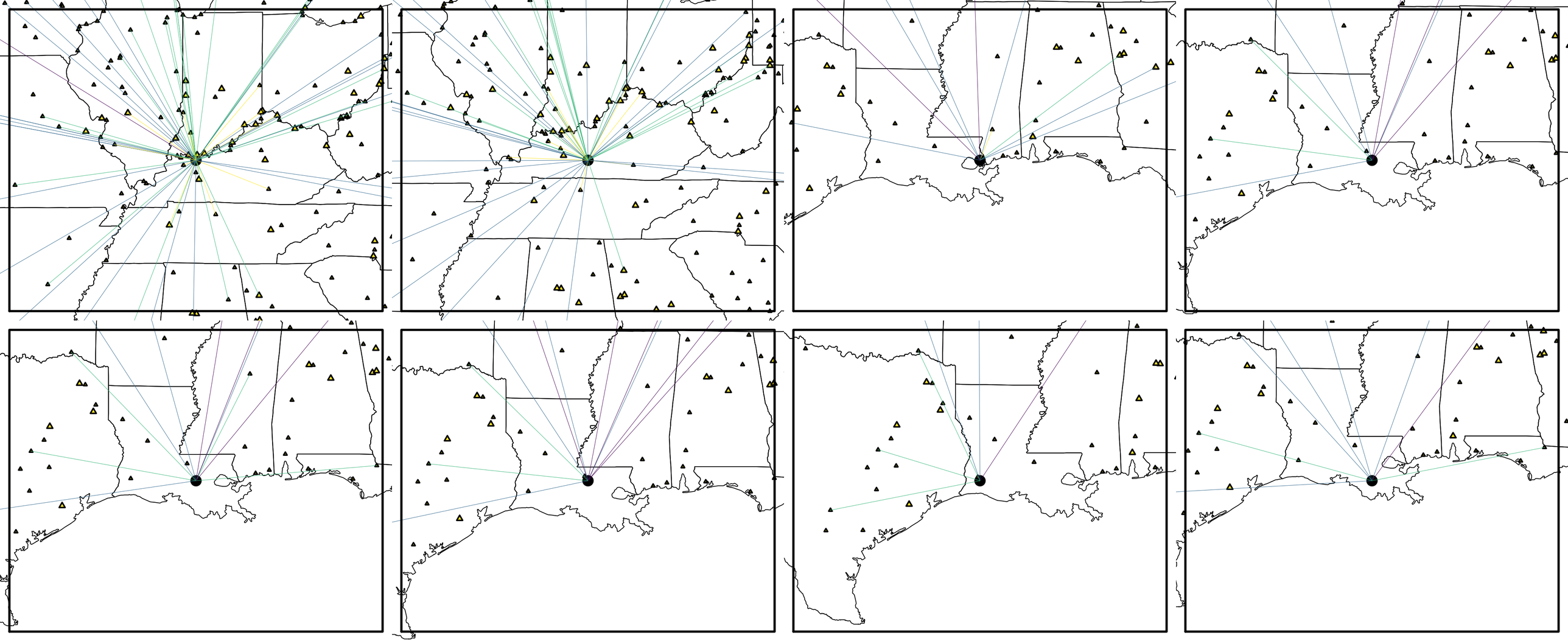


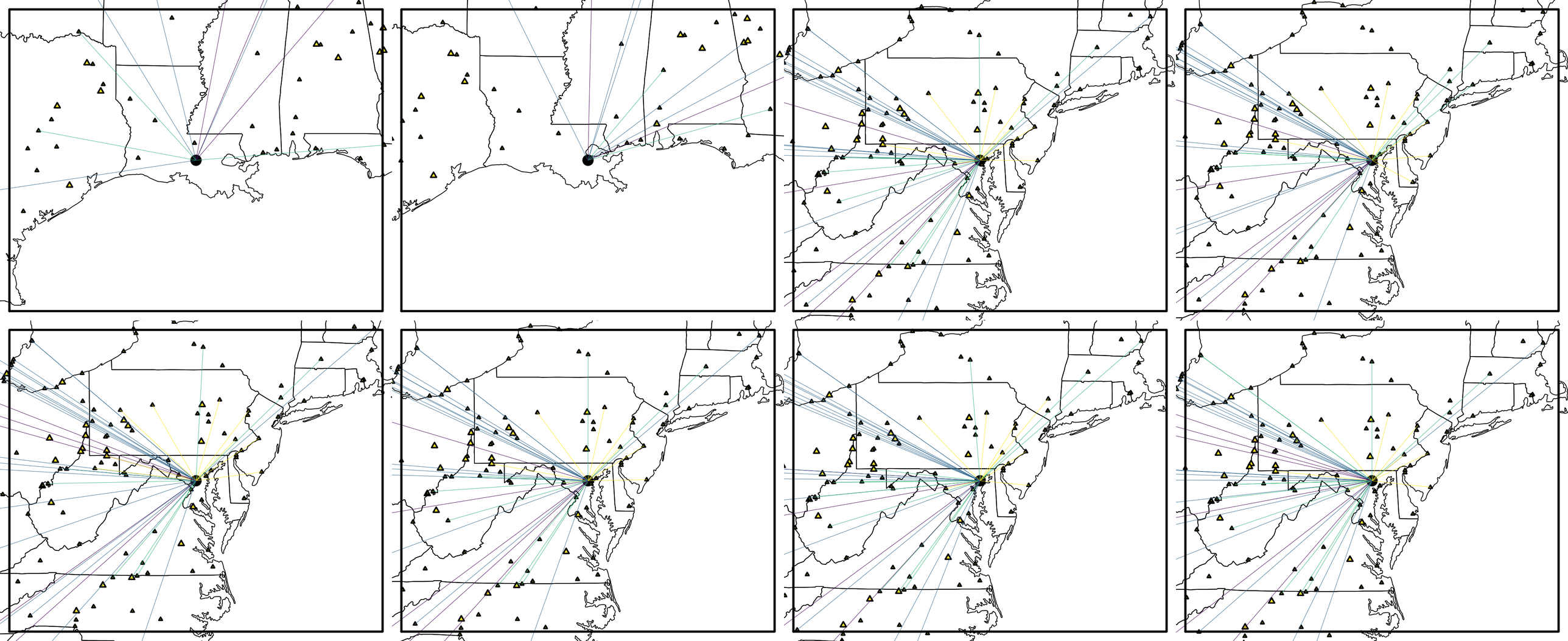


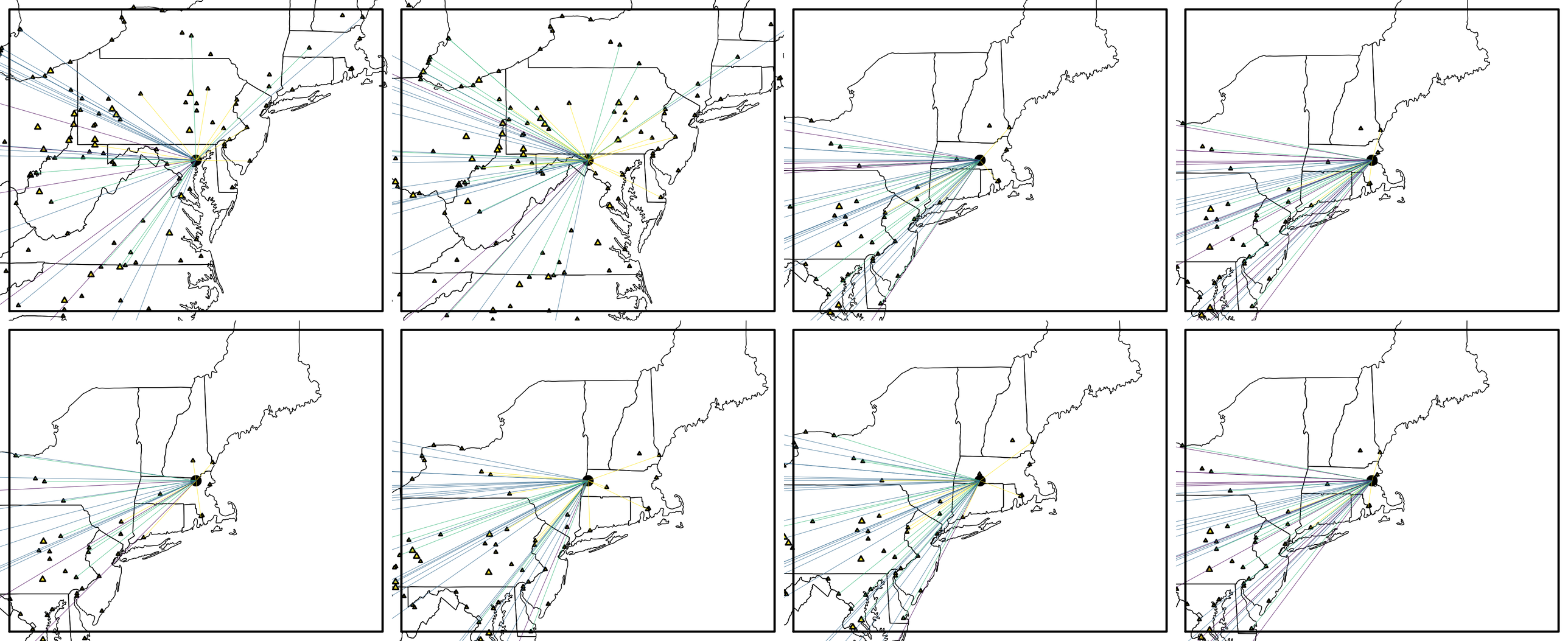


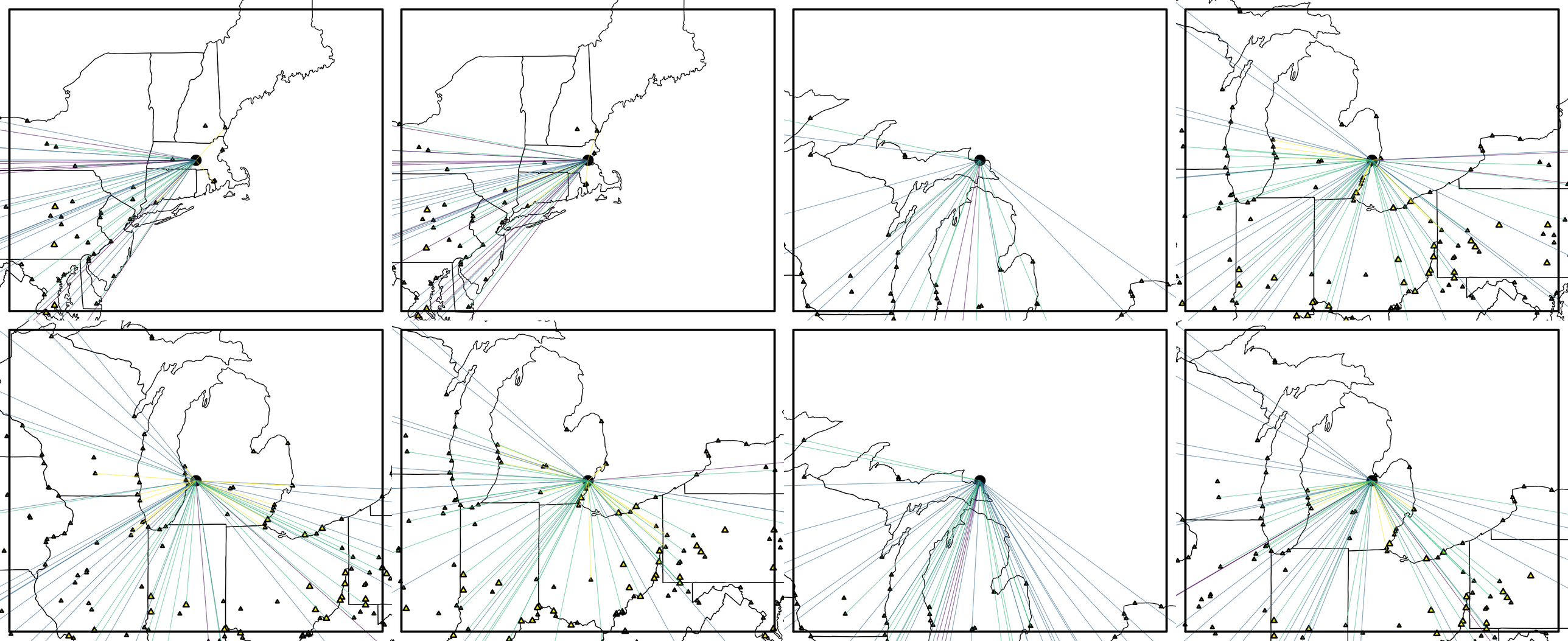


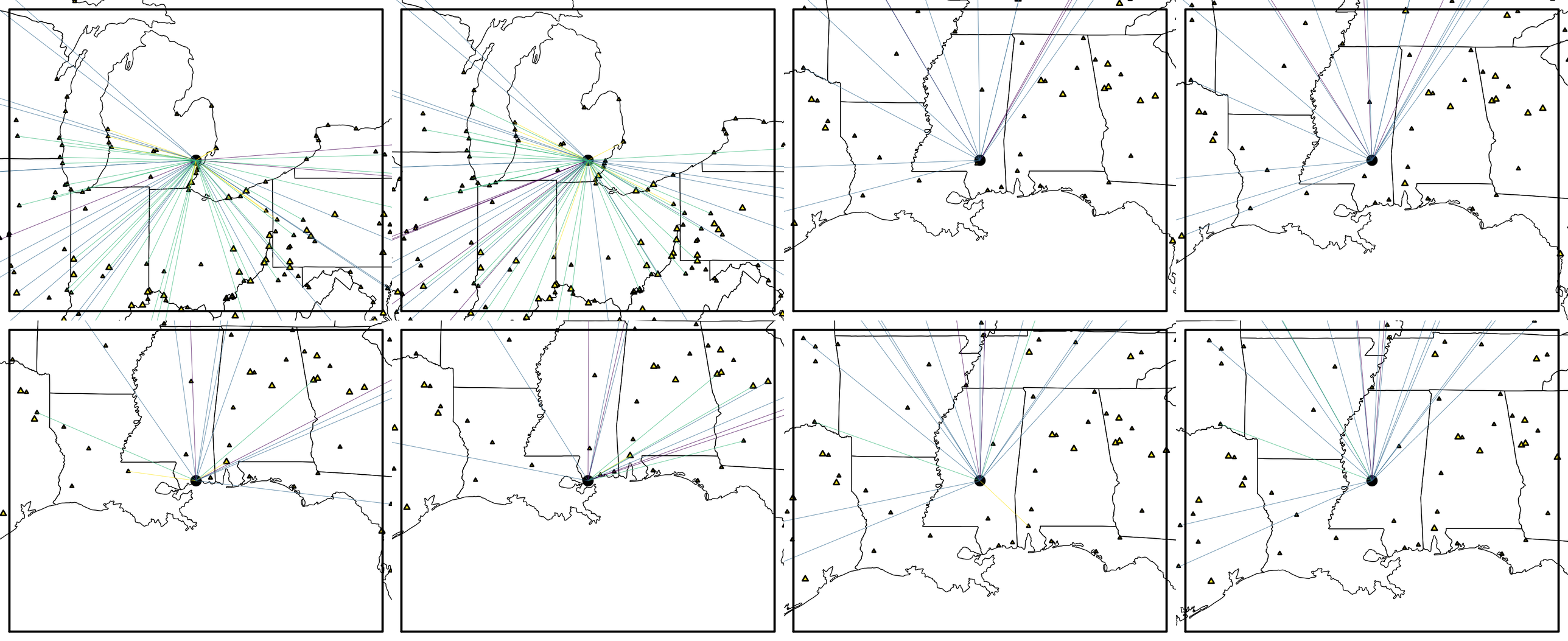


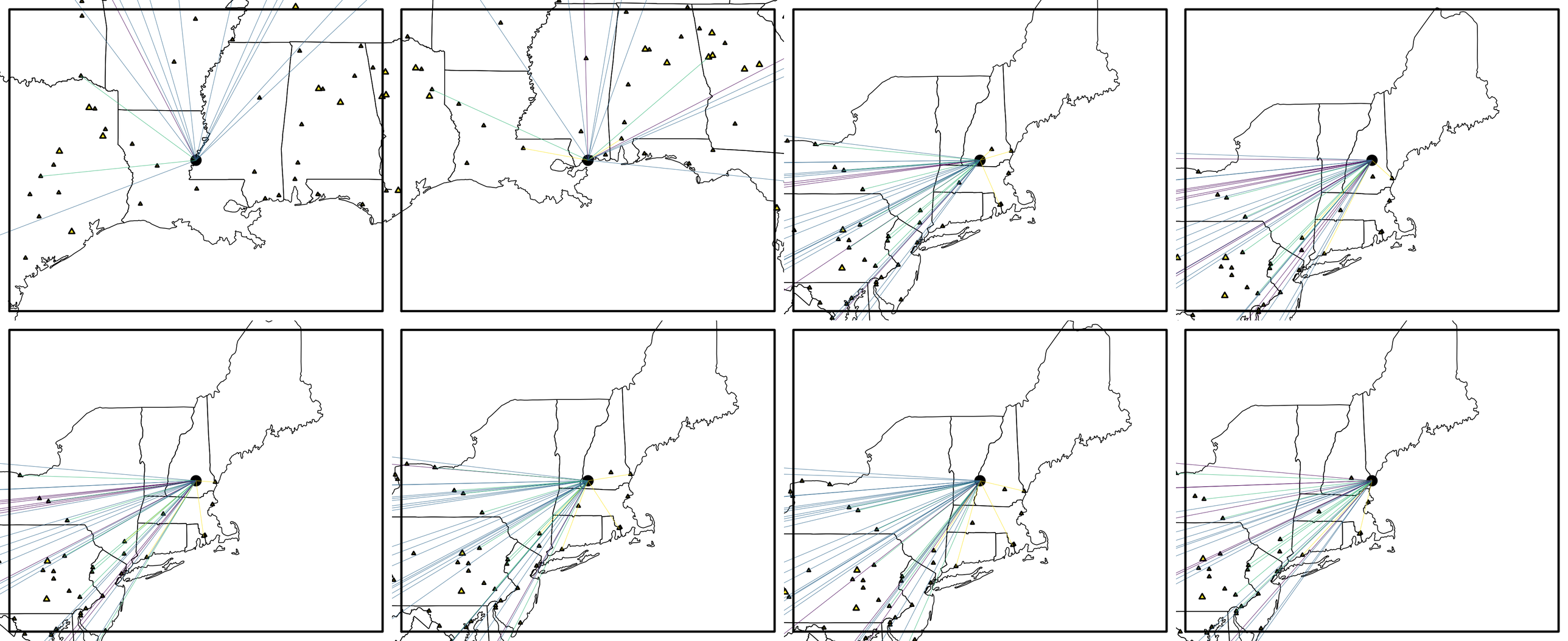


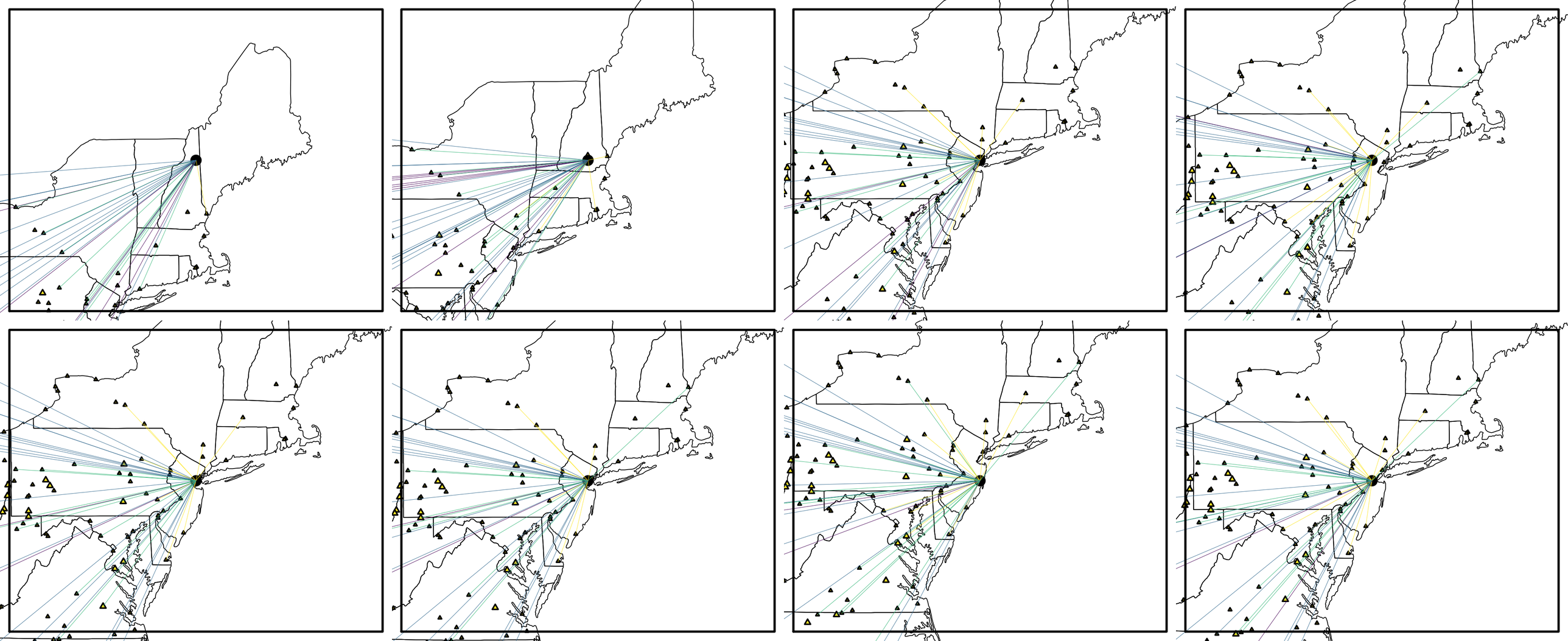


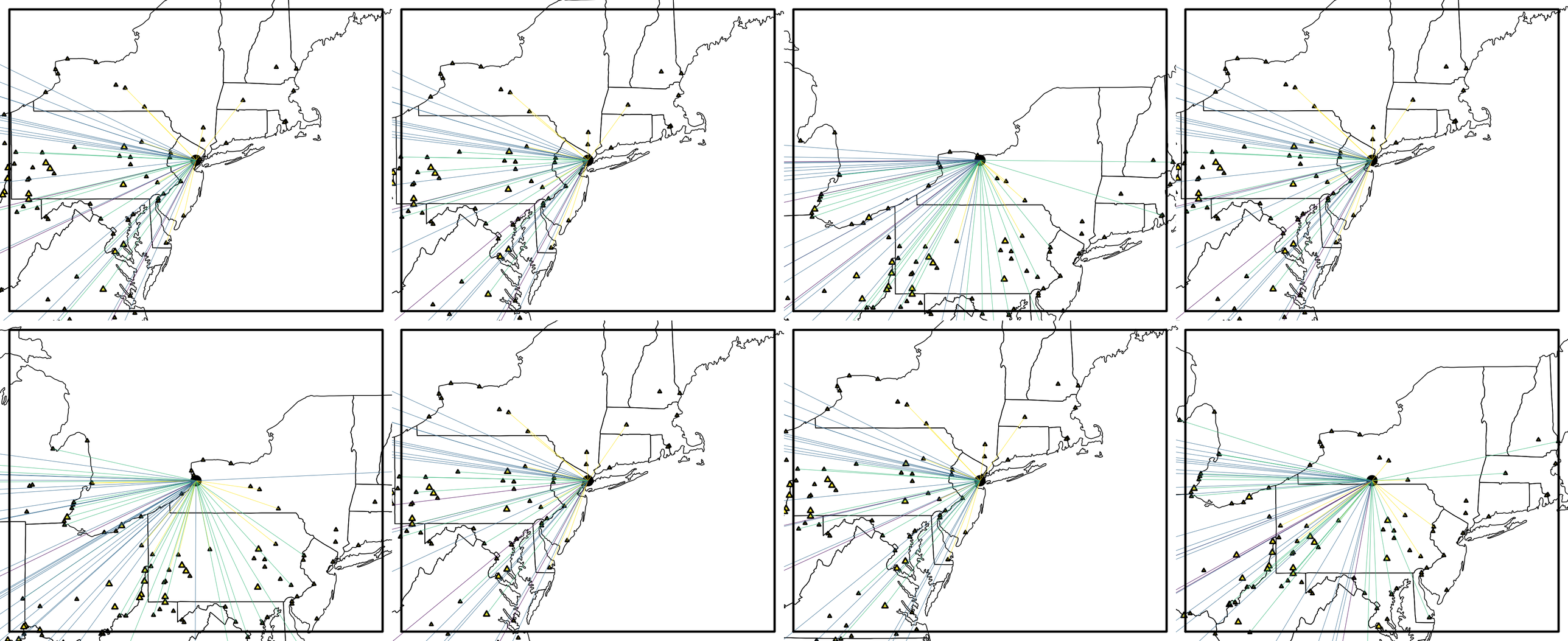


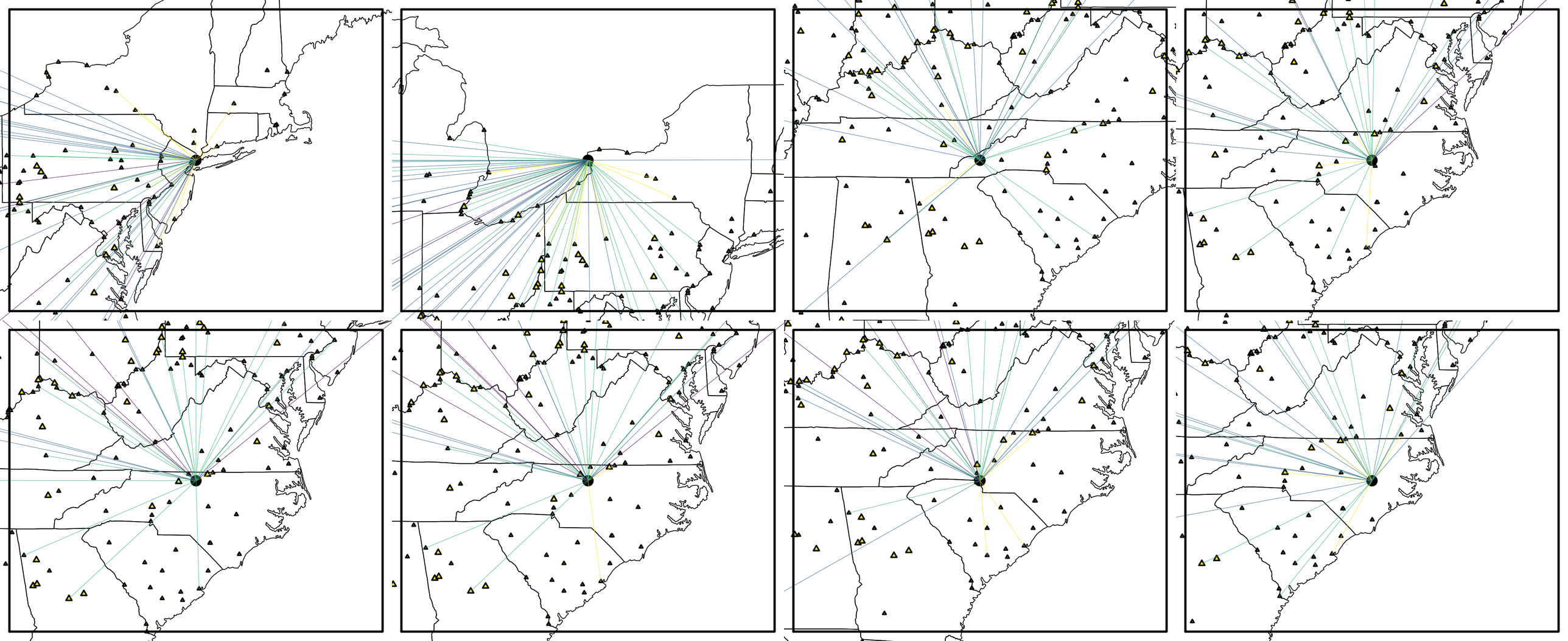


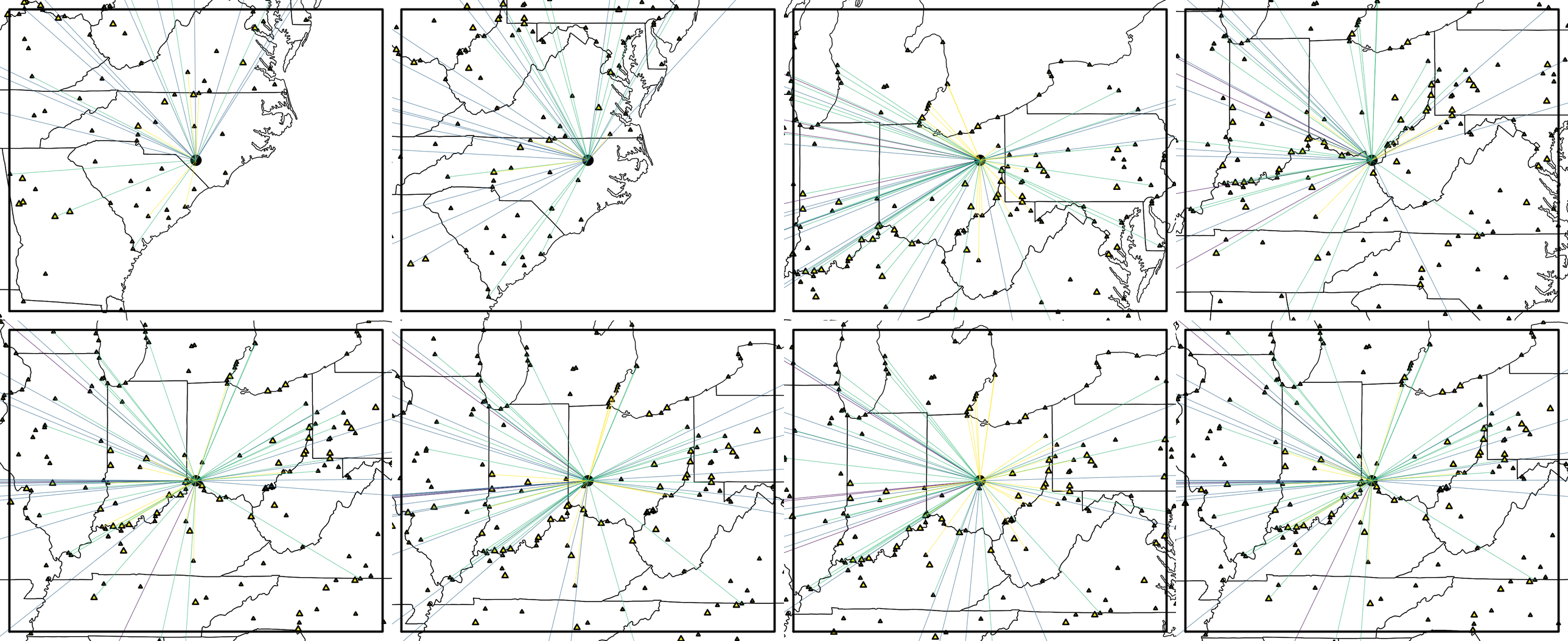


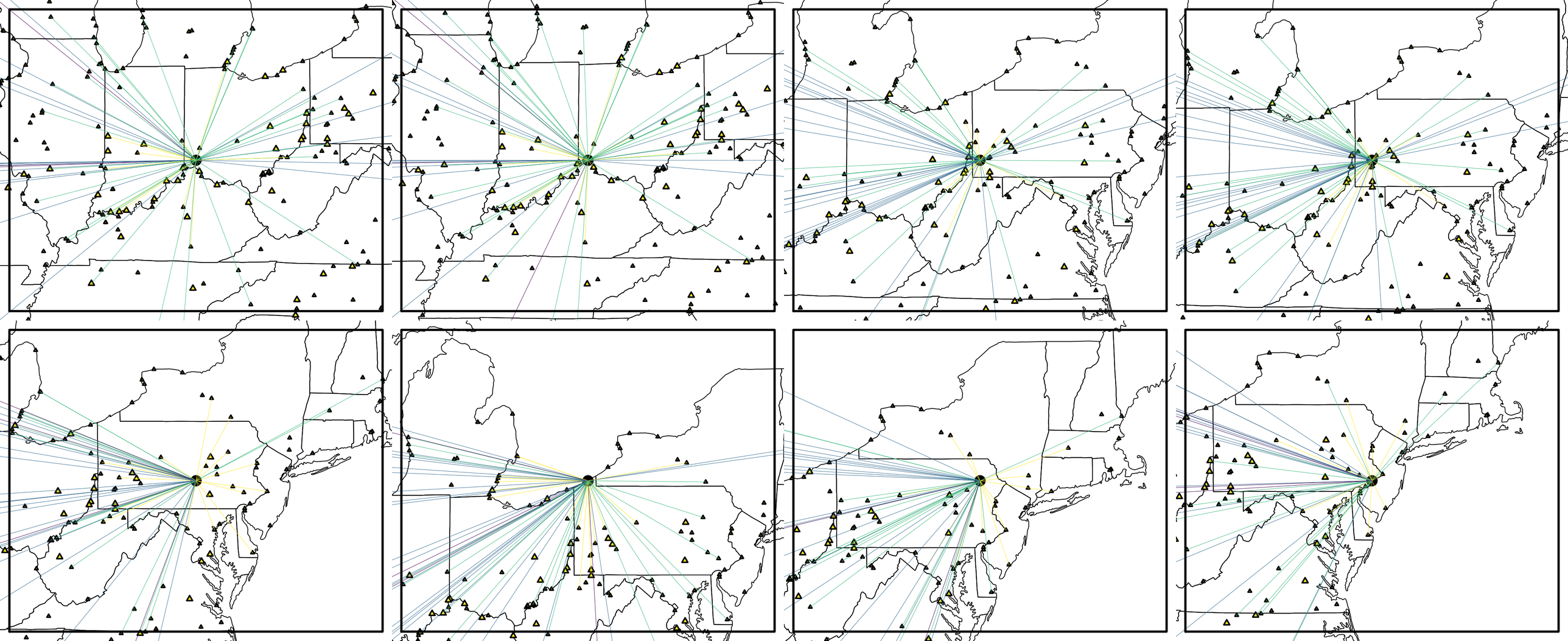


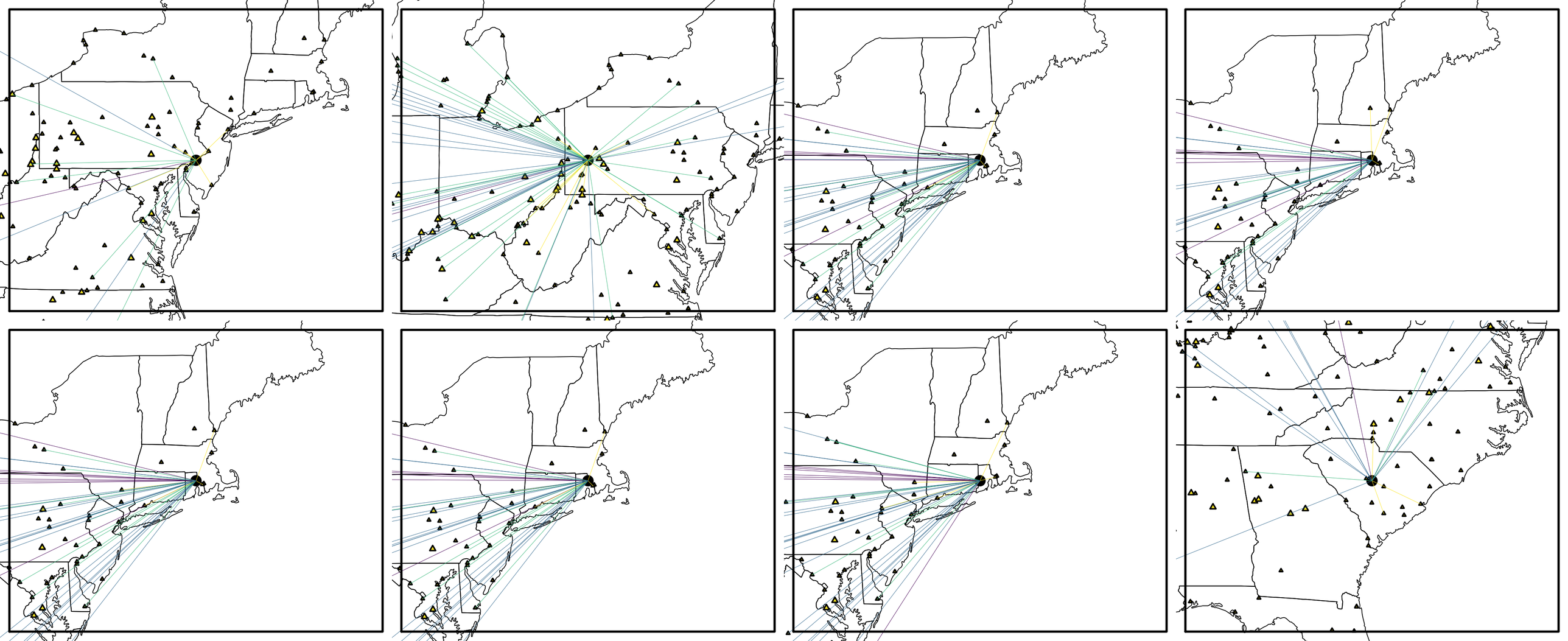


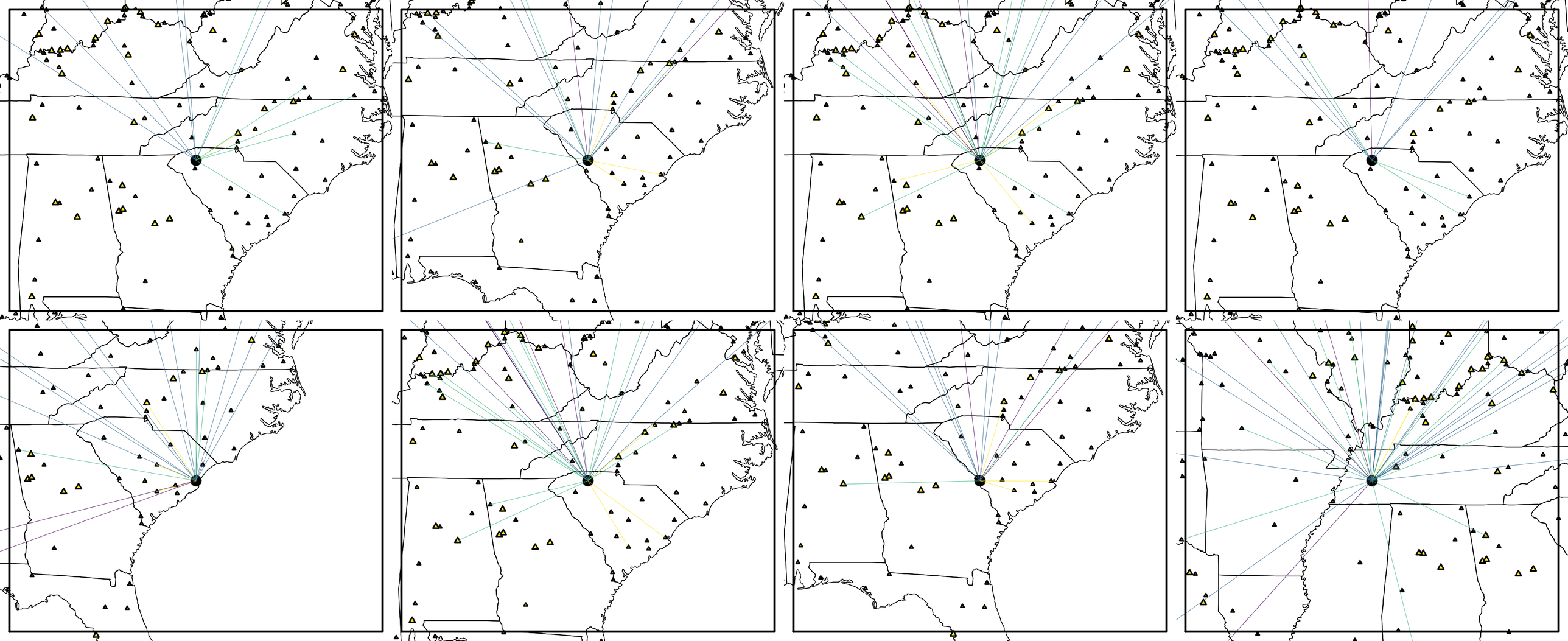


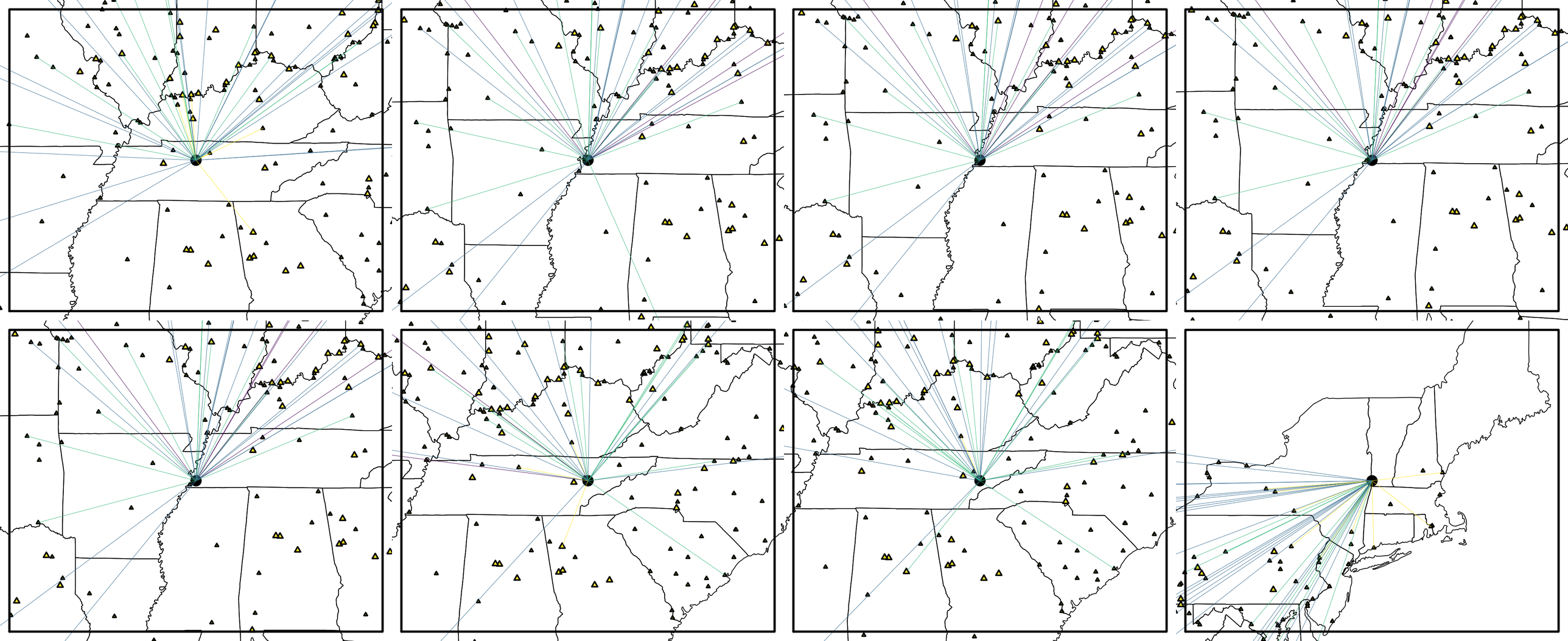


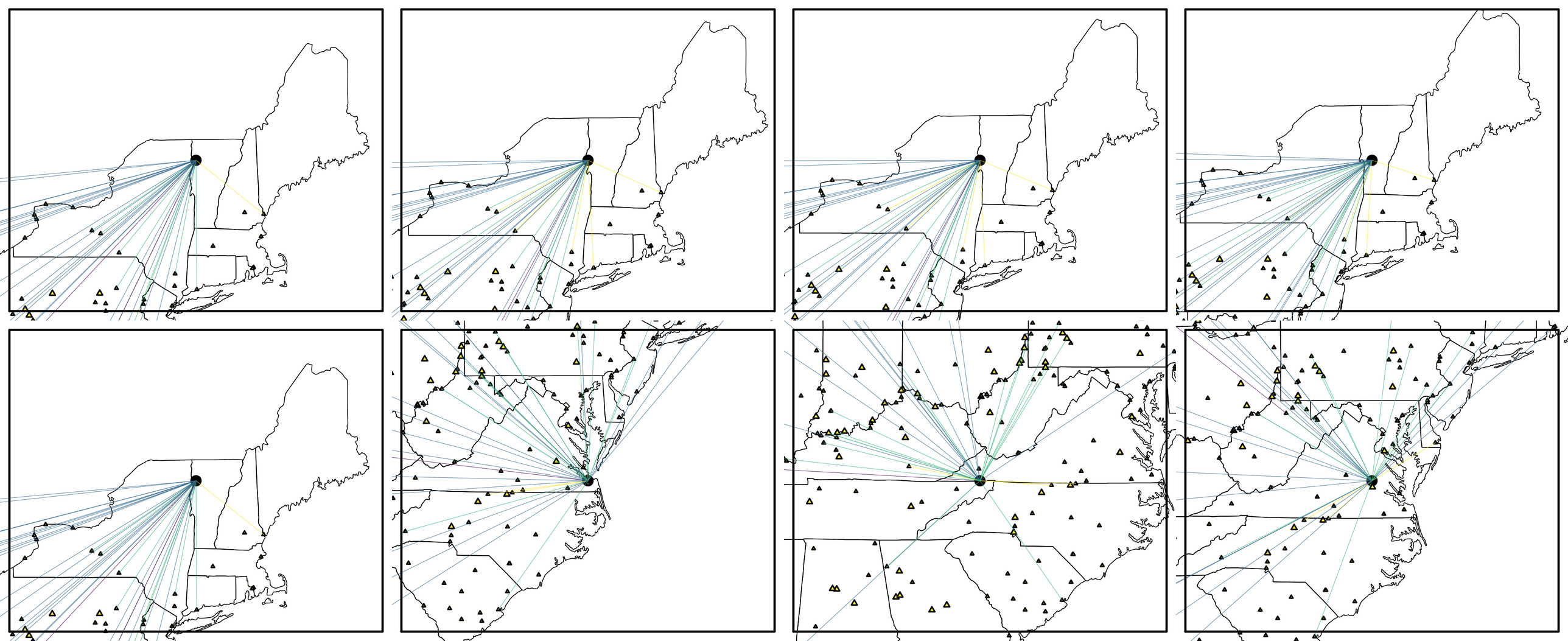


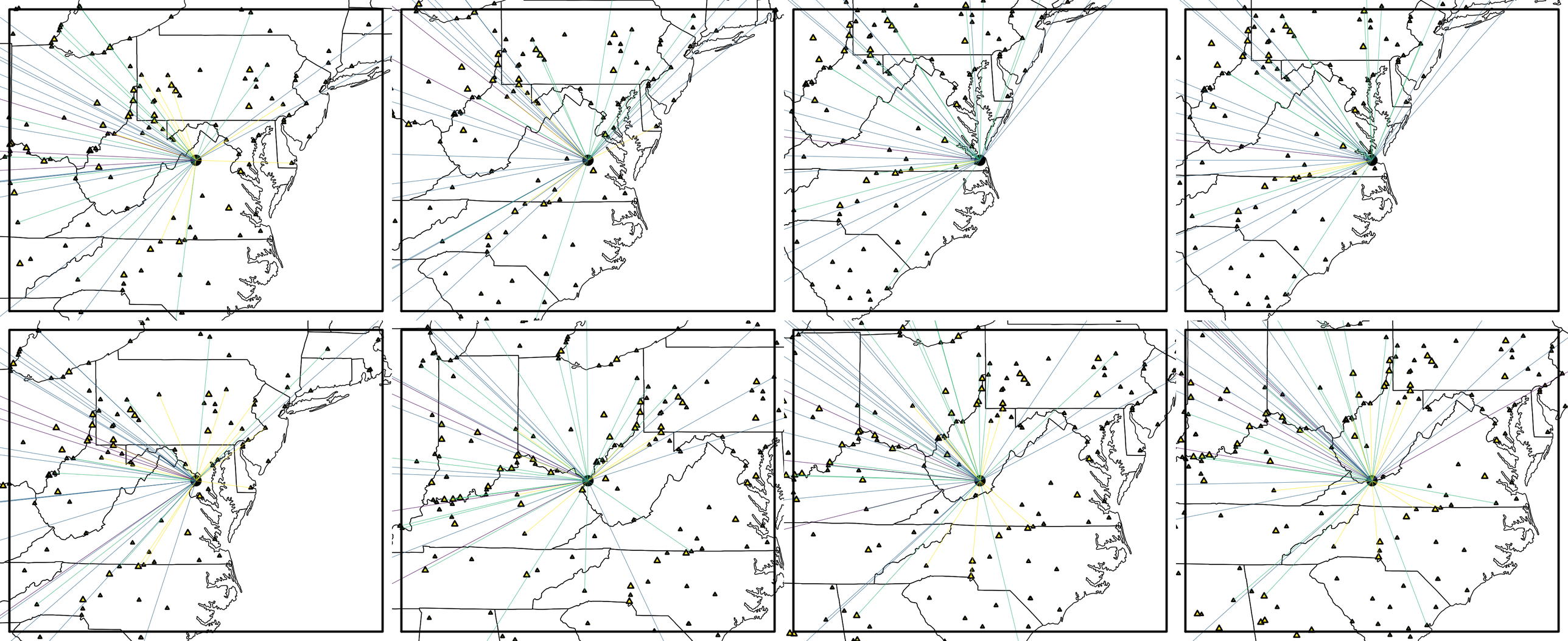


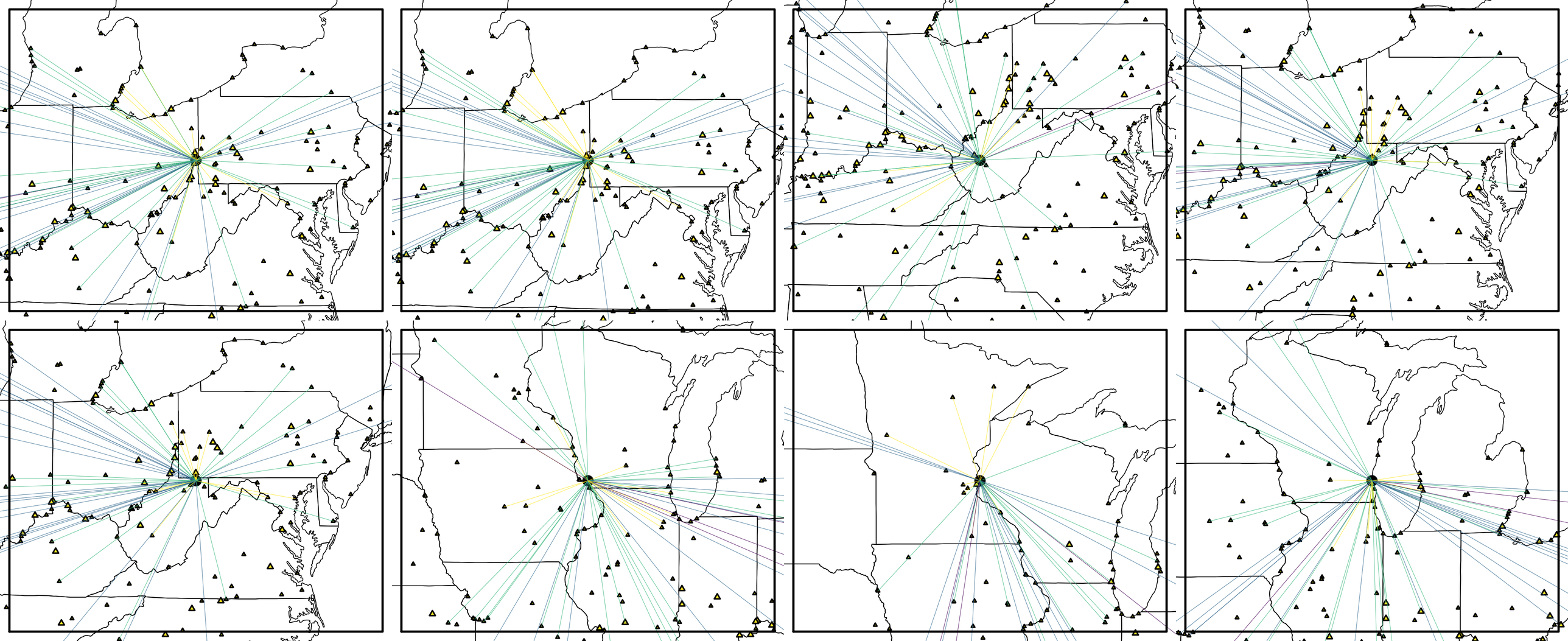


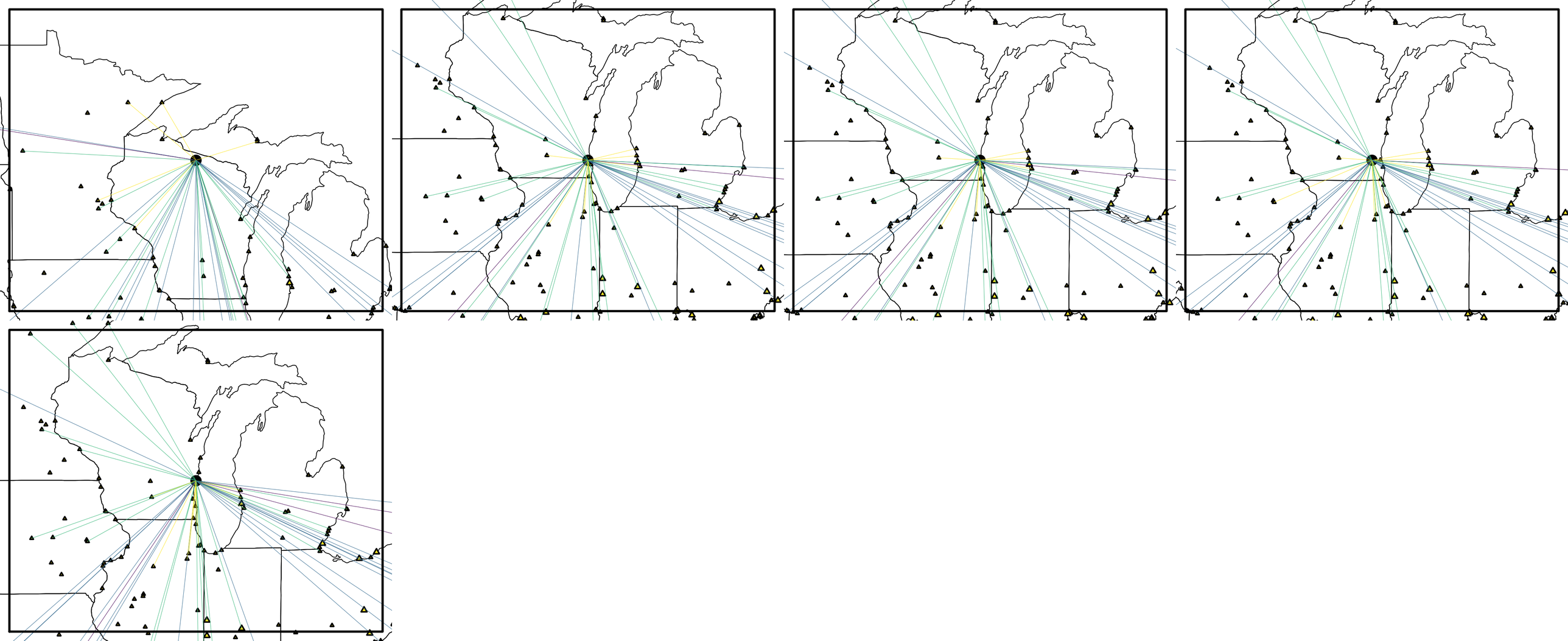


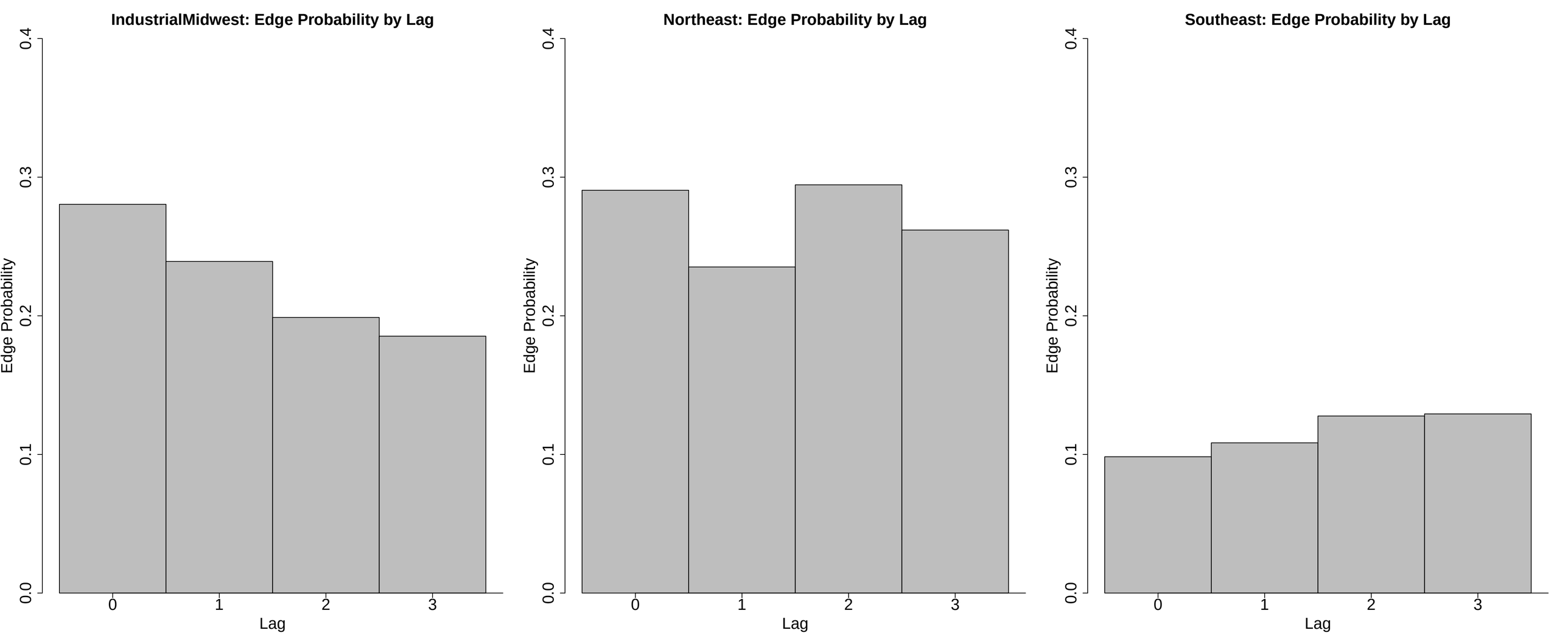


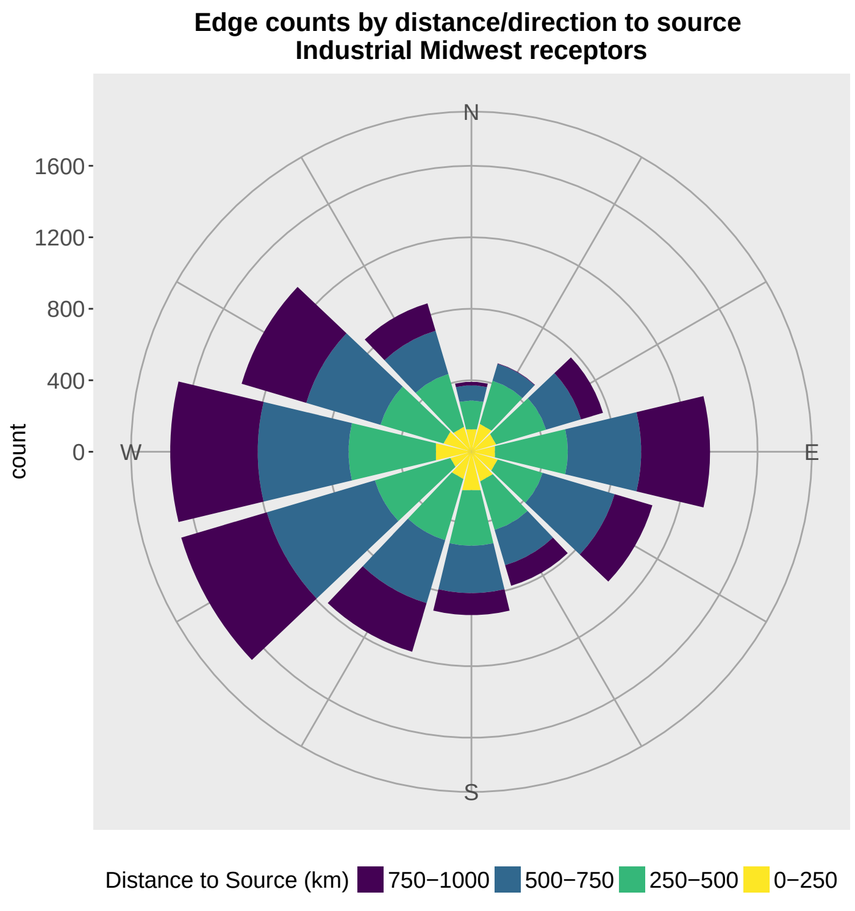


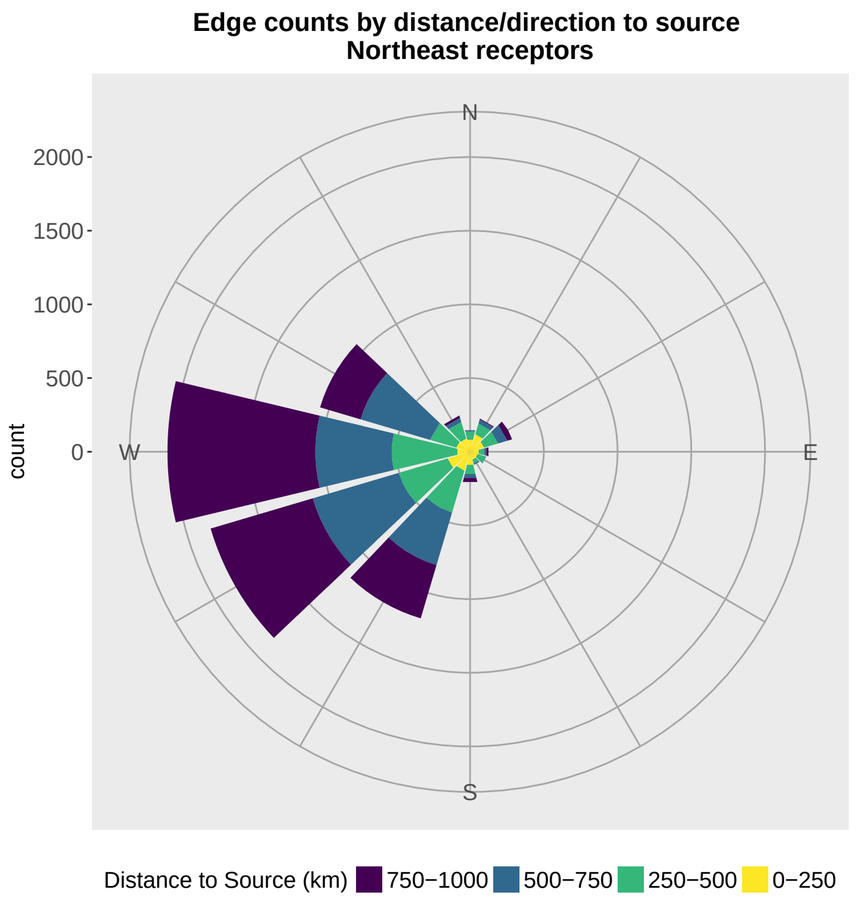


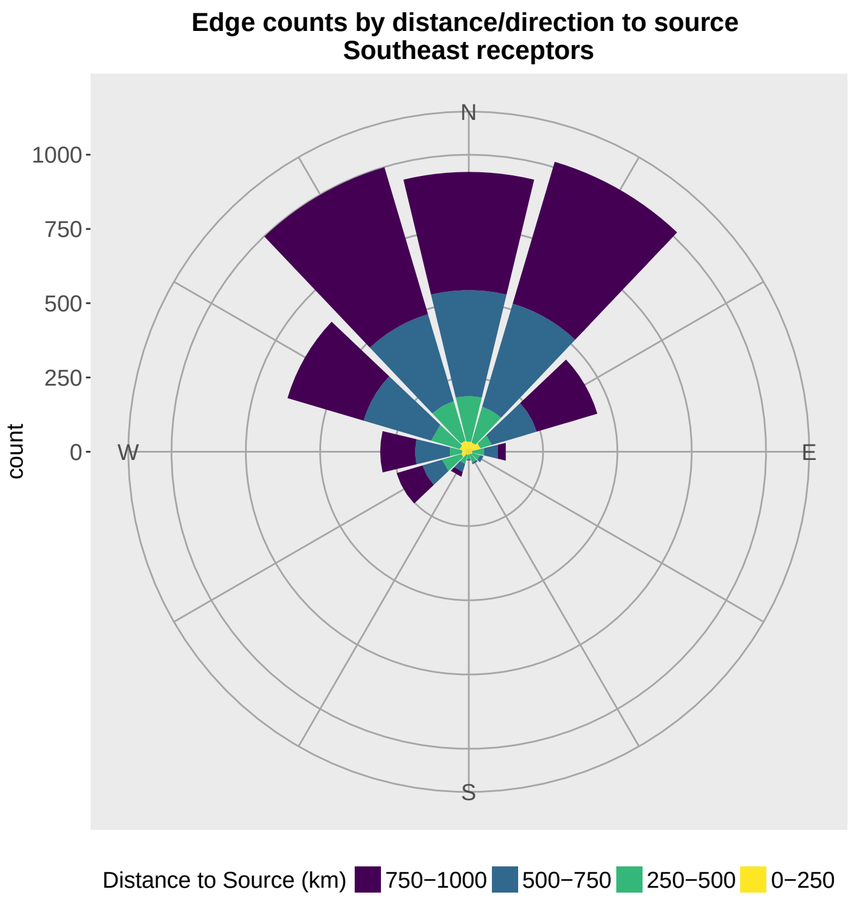


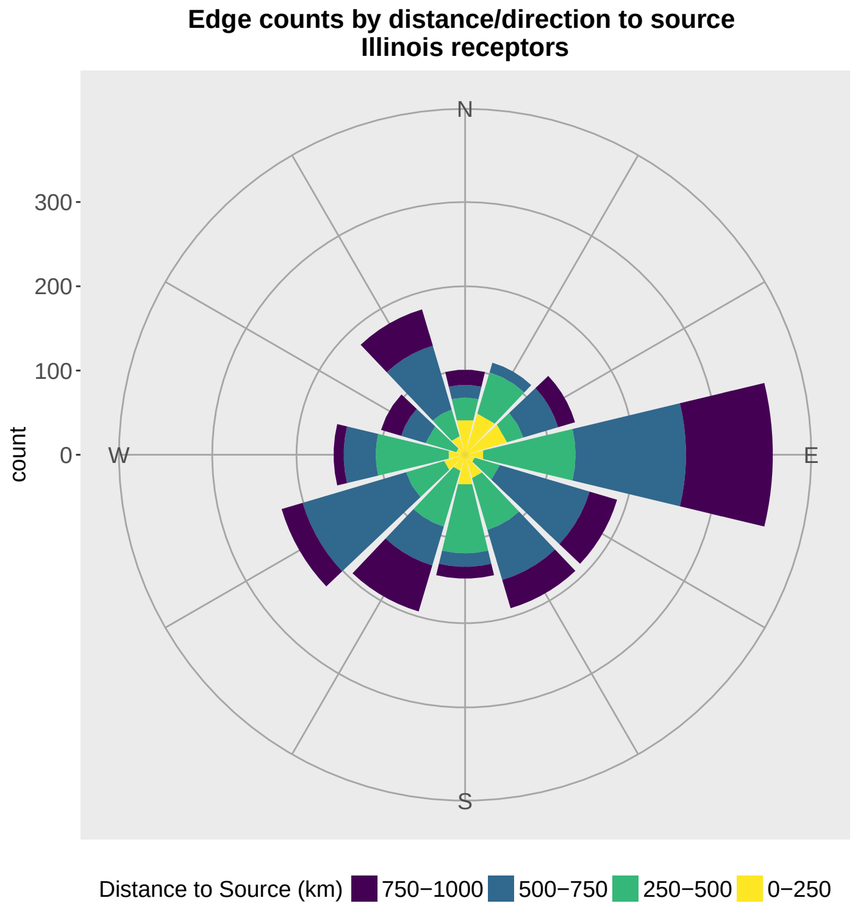


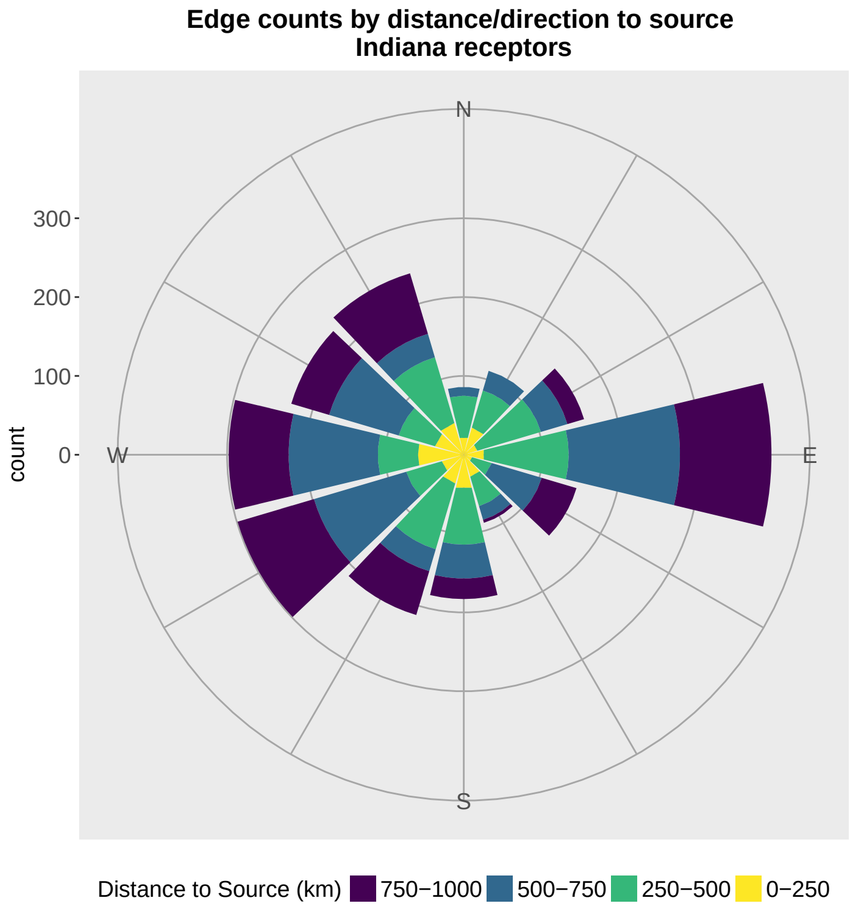

IndustrialMidwest: Edge Probability by Lag
Edge Probability
0.0
0.1
0.2
0.3
0.4
0
1
2
3
Lag
Northeast: Edge Probability by Lag
Edge Probability
0.0
0.1
0.2
0.3
0.4
0
1
2
3
Lag
Southeast: Edge Probability by Lag
Edge Probability
0.0
0.1
0.2
0.3
0.4
0
1
2
3
Lag

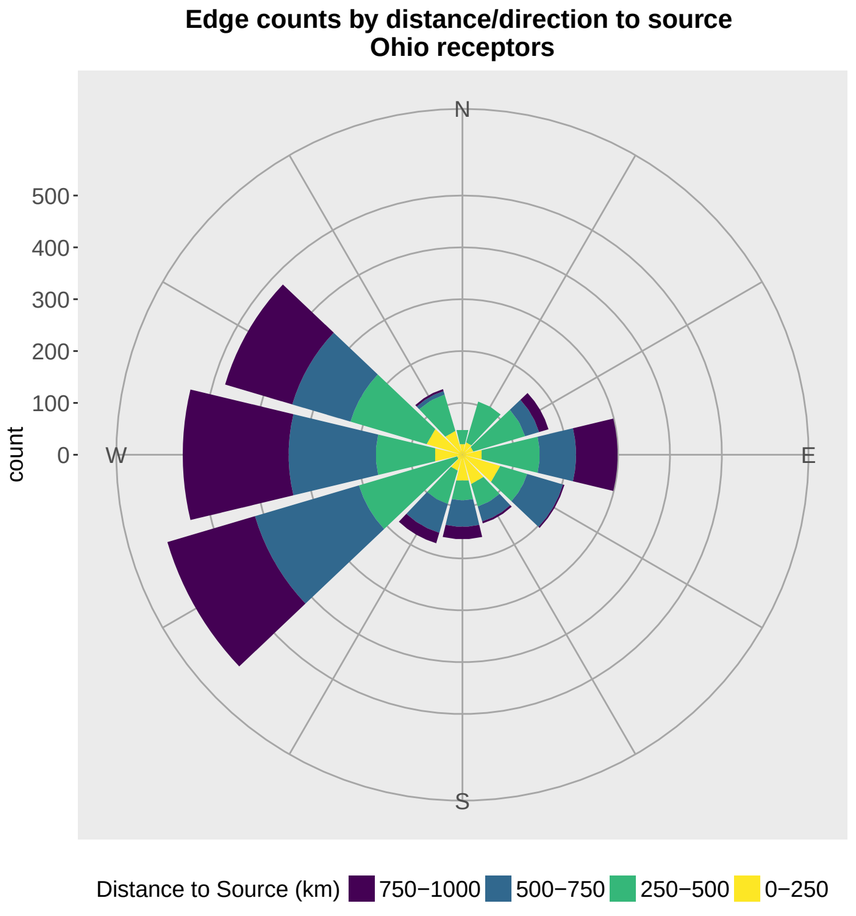

Edge counts by distance/direction to source
Industrial Midwest receptors
N
W
E
S
1600
1200
800
400
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

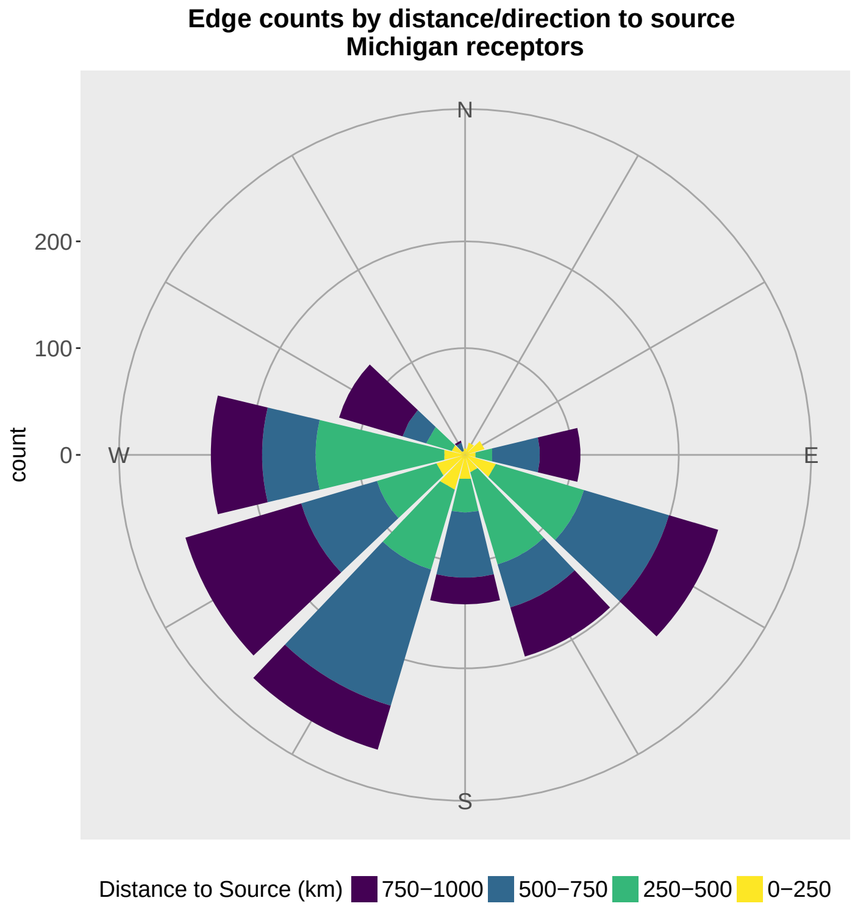

Edge counts by distance/direction to source
Northeast receptors
N
W
E
S
2000
1500
1000
500
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

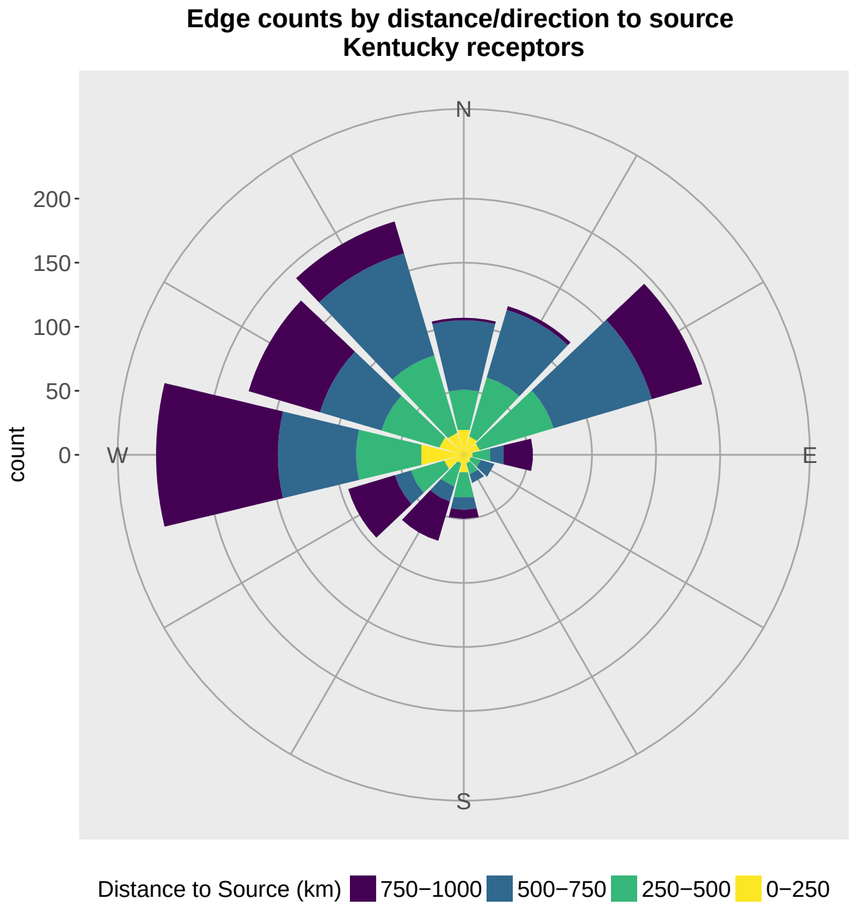

Edge counts by distance/direction to source
Southeast receptors
N
W
E
S
1000
750
500
250
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

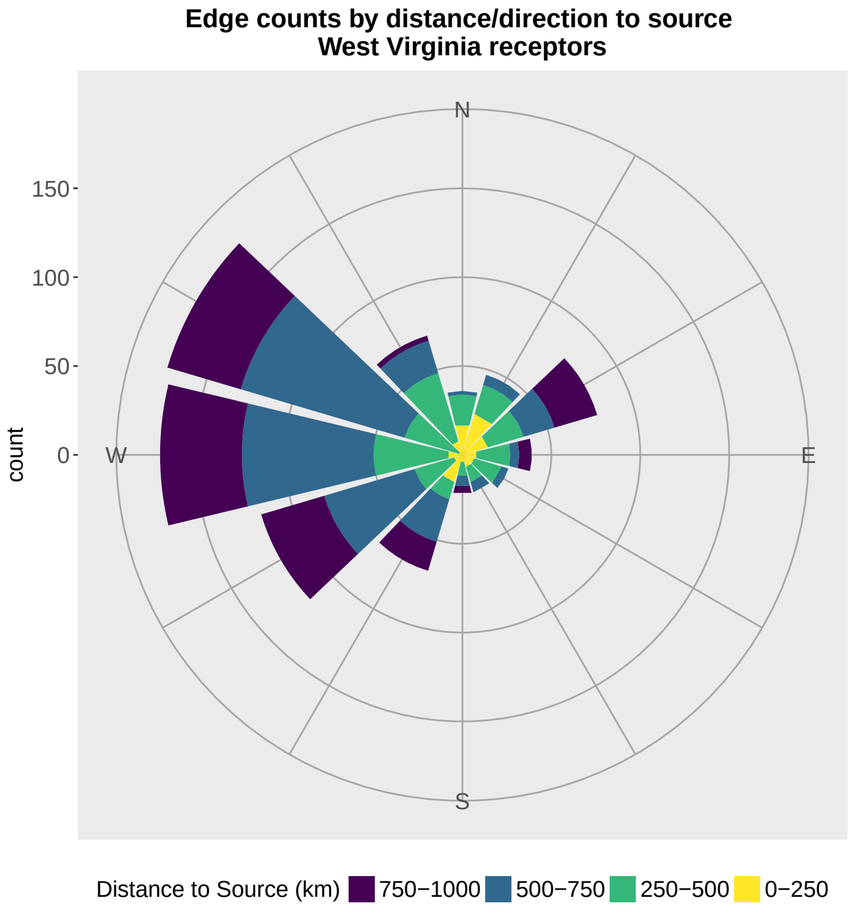

Edge counts by distance/direction to source
Illinois receptors
N
W
E
S
300
200
100
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

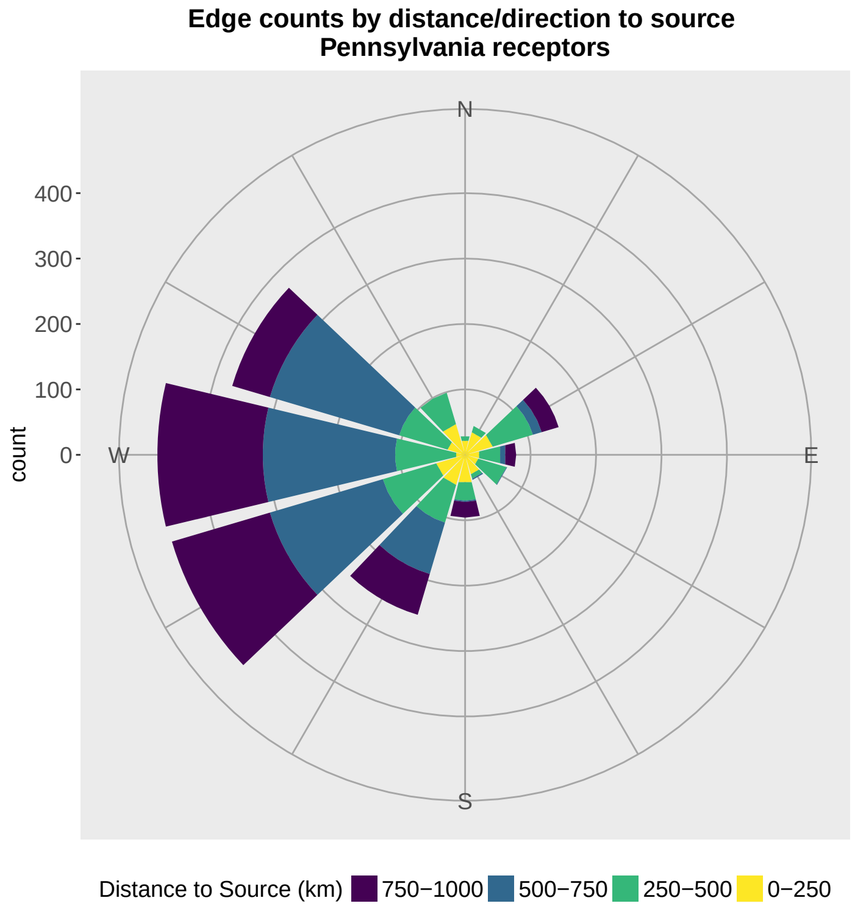

Edge counts by distance/direction to source
Indiana receptors
N
W
E
S
300
200
100
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

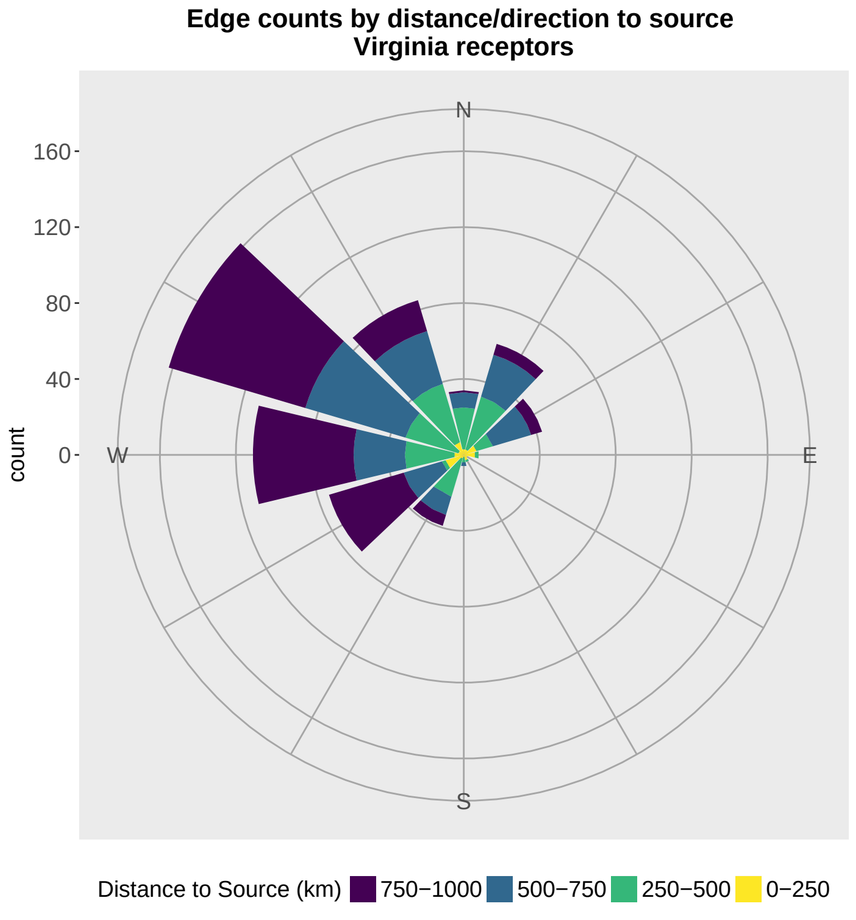

Edge counts by distance/direction to source
Ohio receptors
N
W
E
S
500
400
300
200
100
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

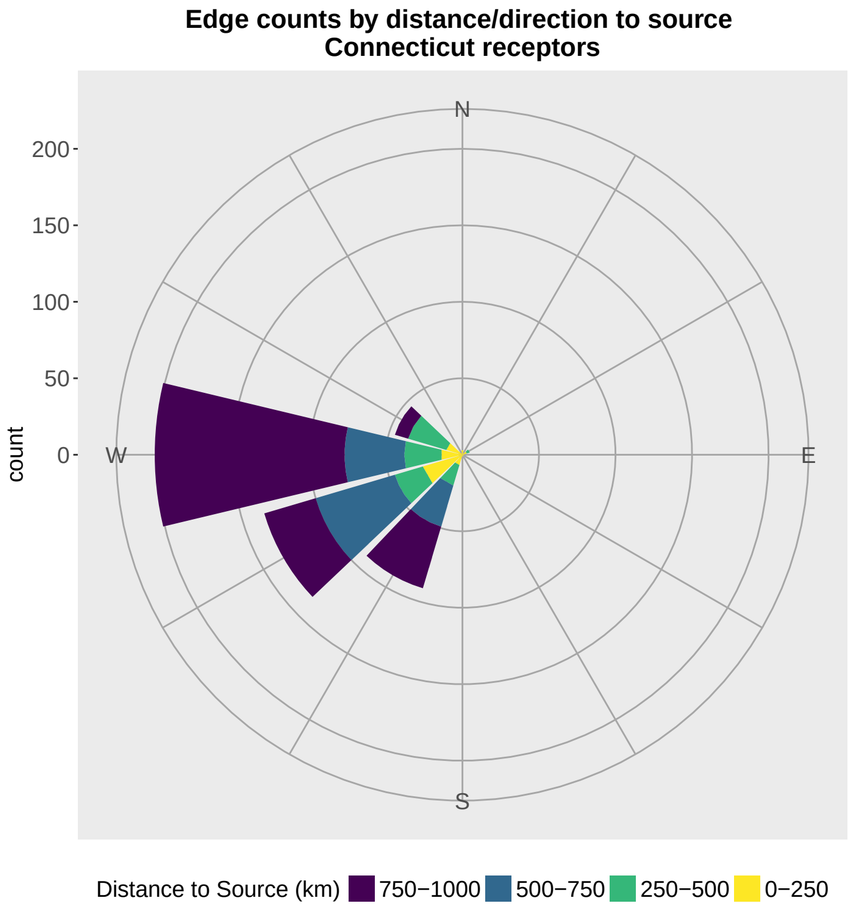

Edge counts by distance/direction to source
Michigan receptors
N
W
E
S
200
100
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

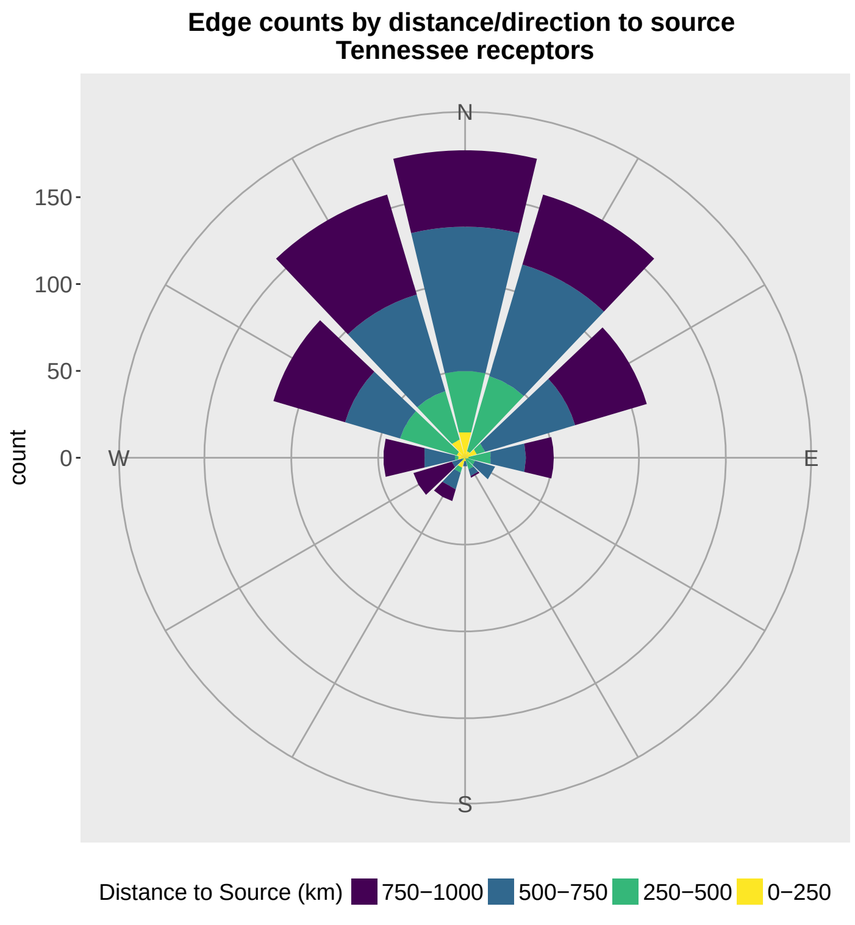

Edge counts by distance/direction to source
Kentucky receptors
N
W
E
S
200
150
100
50
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

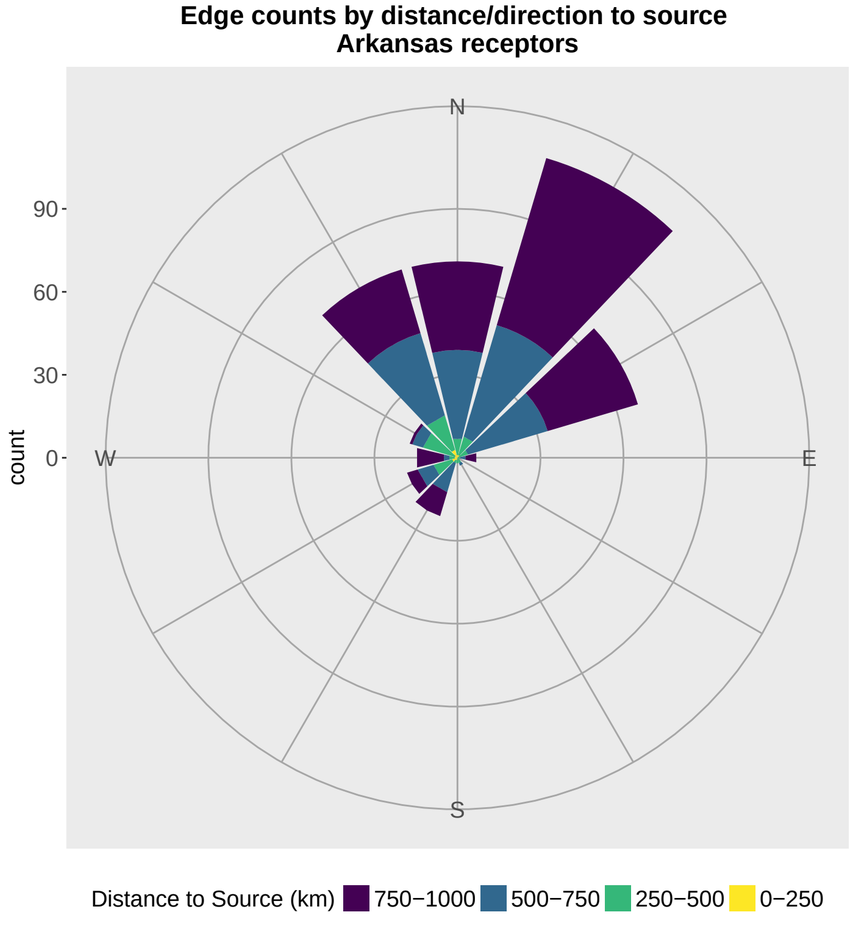

Edge counts by distance/direction to source
West Virginia receptors
N
W
E
S
150
100
50
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

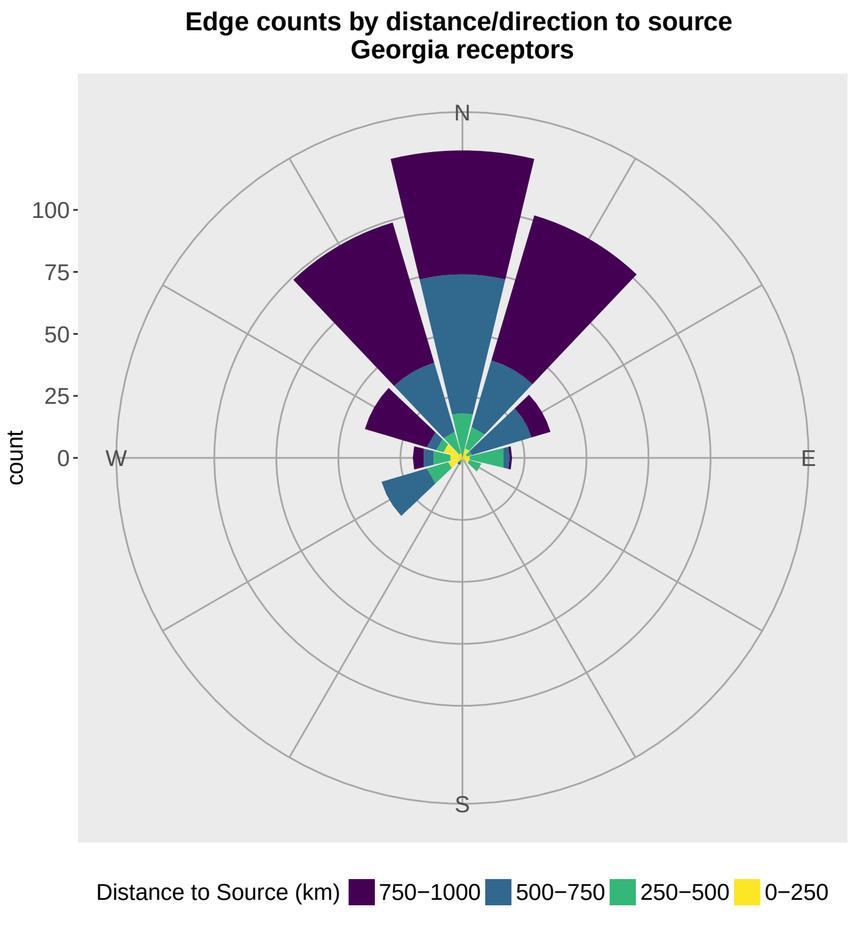

Edge counts by distance/direction to source
Pennsylvania receptors
N
W
E
S
count
400
300
200
100
0
Distance to Source (km)
750−1000
500−750
250−500
0−250

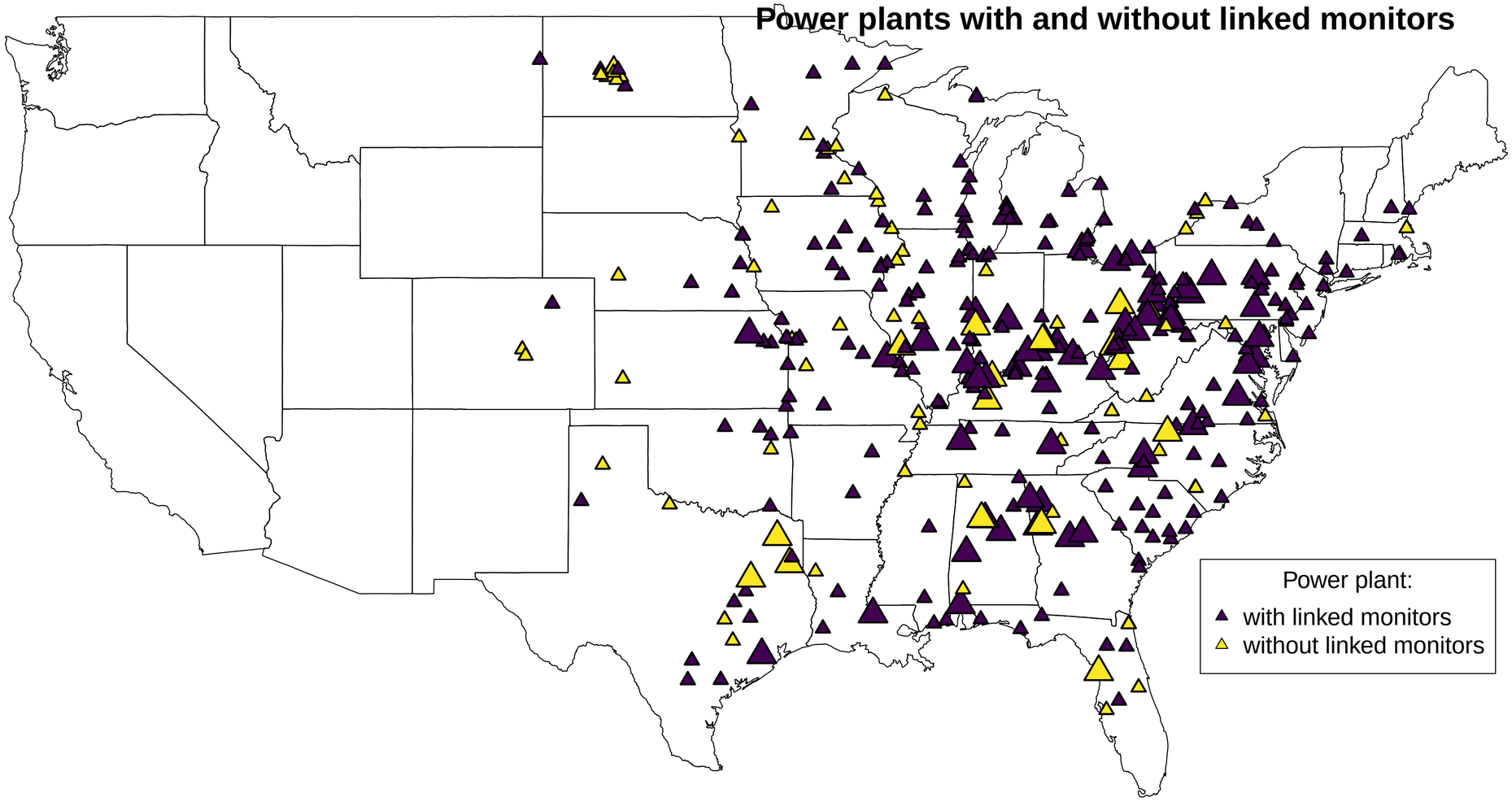

Edge counts by distance/direction to source
Virginia receptors
N
W
E
S
count
160
120
80
40
0
Distance to Source (km)
750−1000
500−750
250−500
0−250


Edge counts by distance/direction to source
Connecticut receptors
N
W
E
S
count
200
150
100
50
0
Distance to Source (km)
750−1000
500−750
250−500
0−250

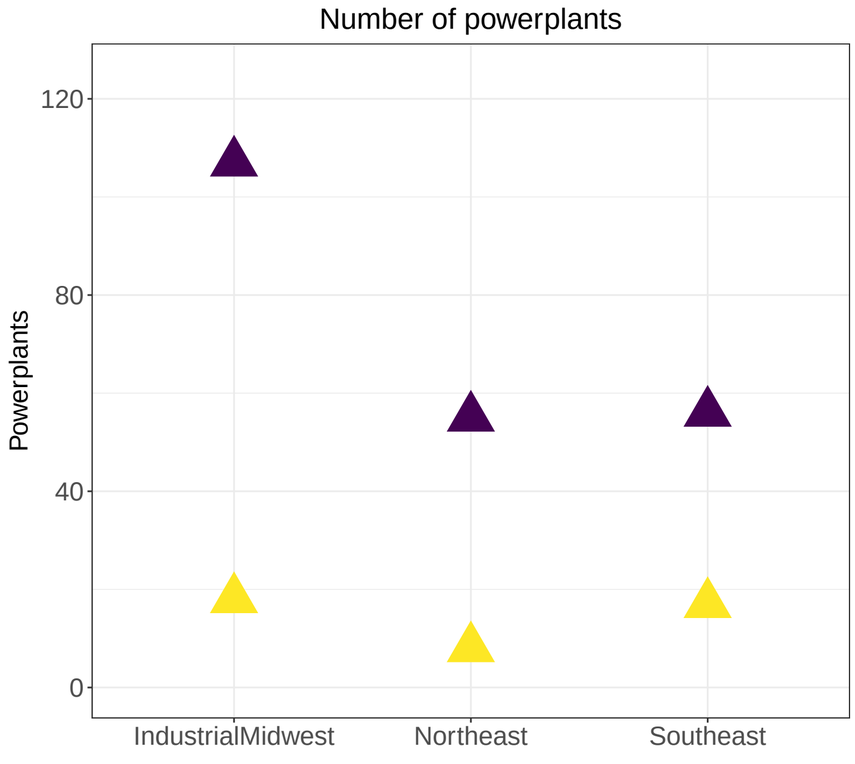

Edge counts by distance/direction to source
Tennessee receptors
N
W
E
S
150
100
50
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

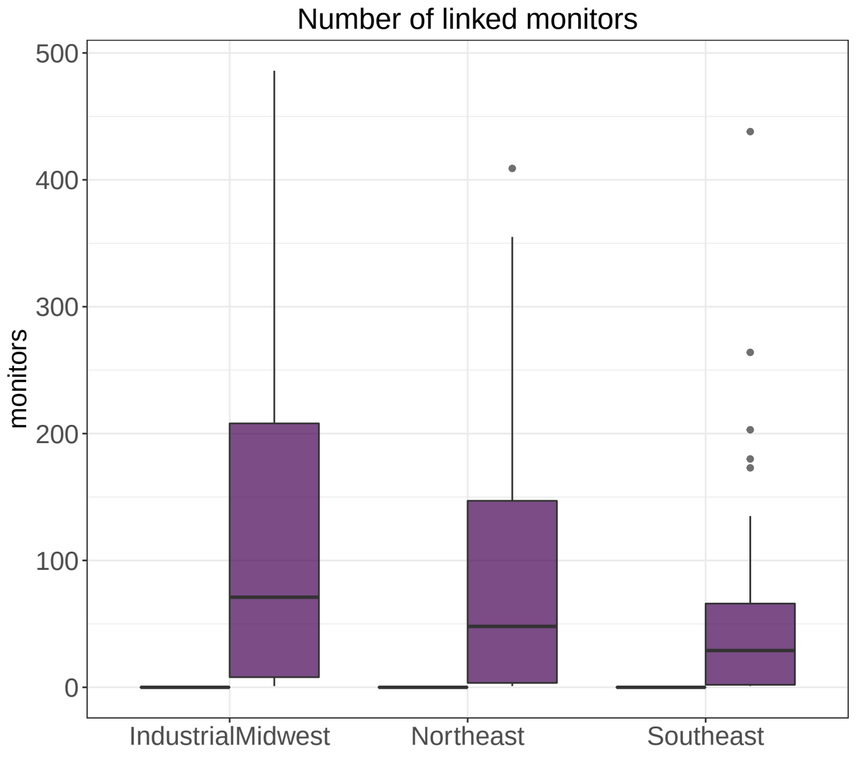

Edge counts by distance/direction to source
Arkansas receptors
N
W
E
S
90
60
30
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

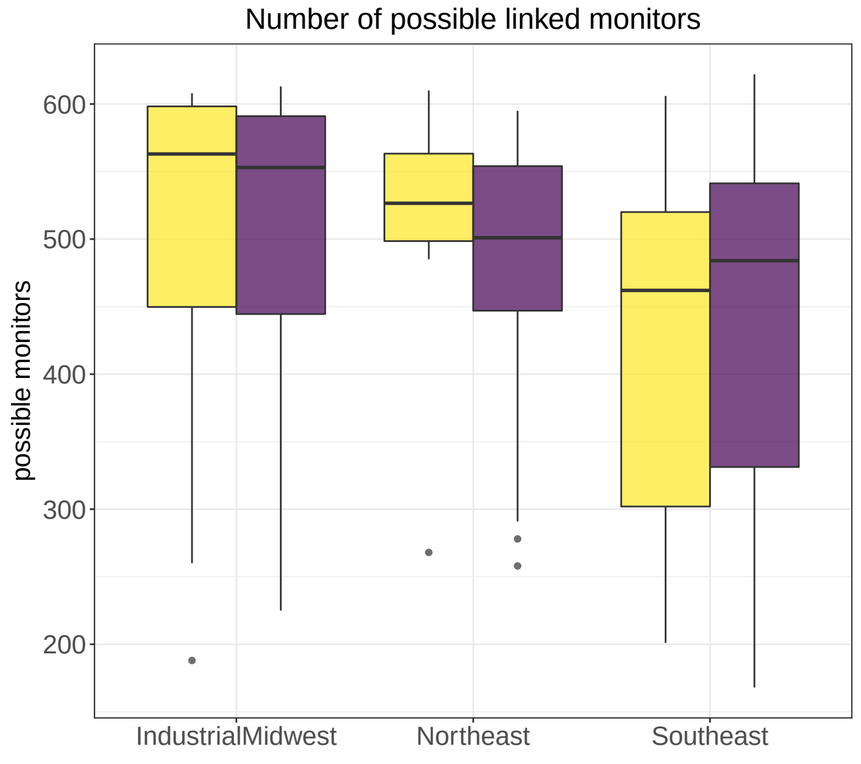

Edge counts by distance/direction to source
Georgia receptors
N
W
E
S
100
75
50
25
0
count
Distance to Source (km)
750−1000
500−750
250−500
0−250

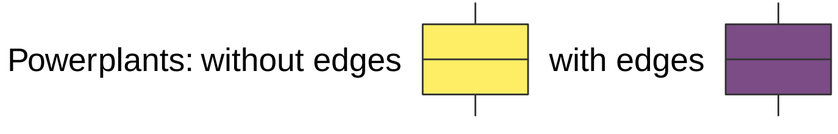

Power plants with and without linked monitors
Power plant:
with linked monitors
without linked monitors

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

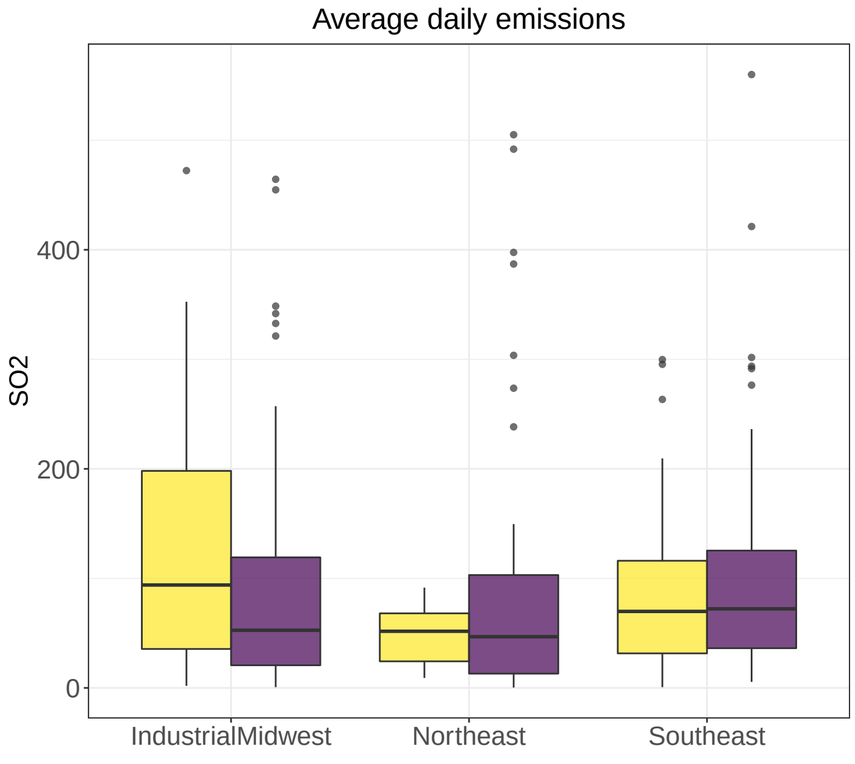


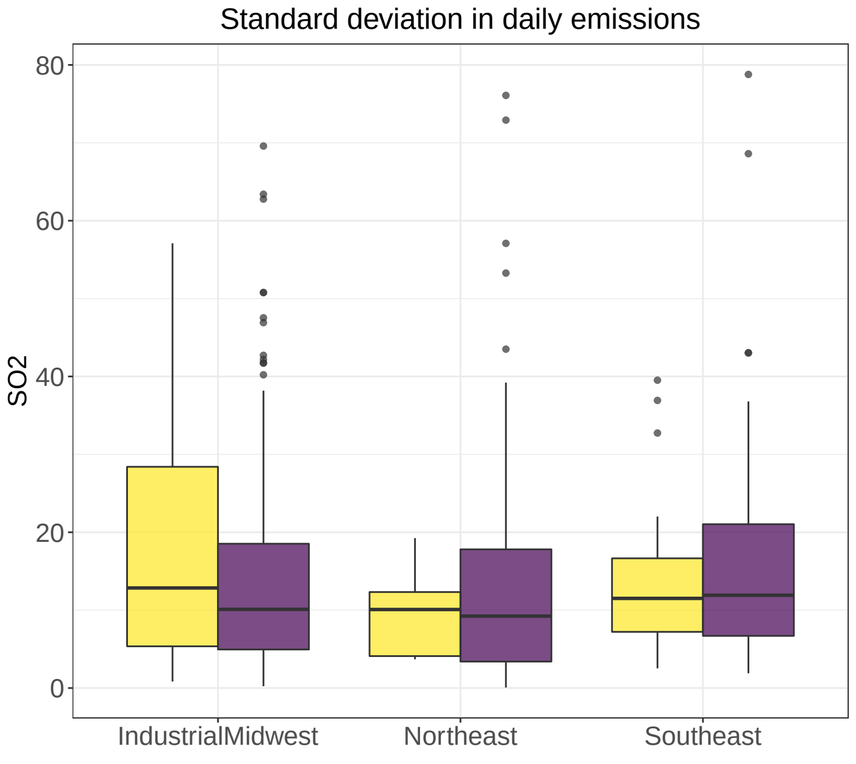


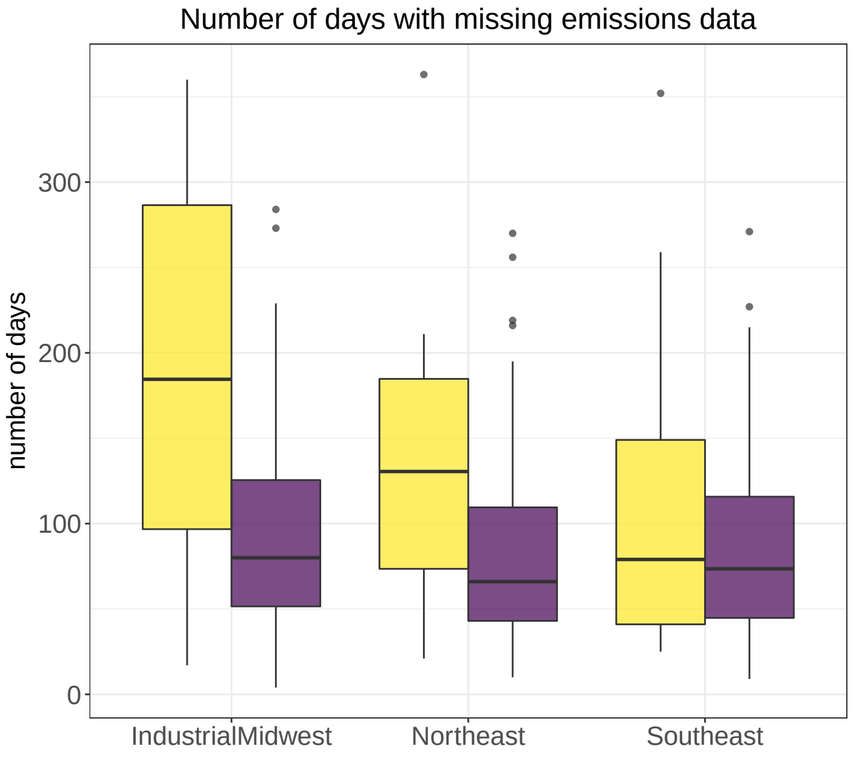


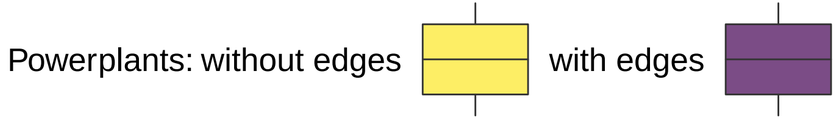


Why do some power plants have linked monitors and others do not?

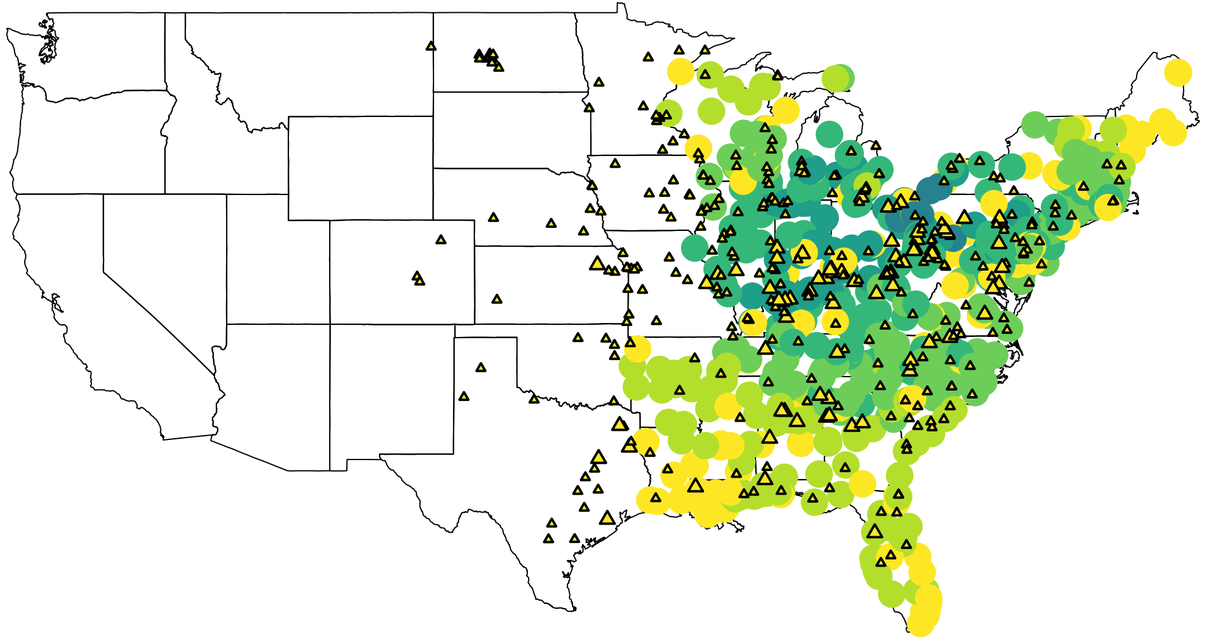




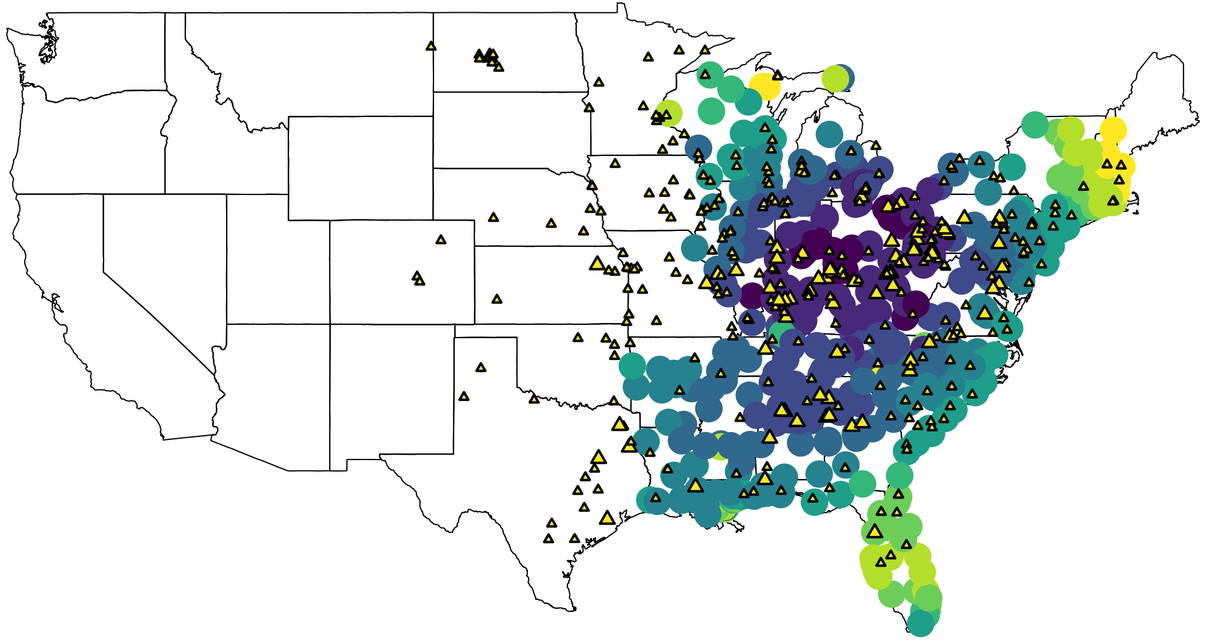




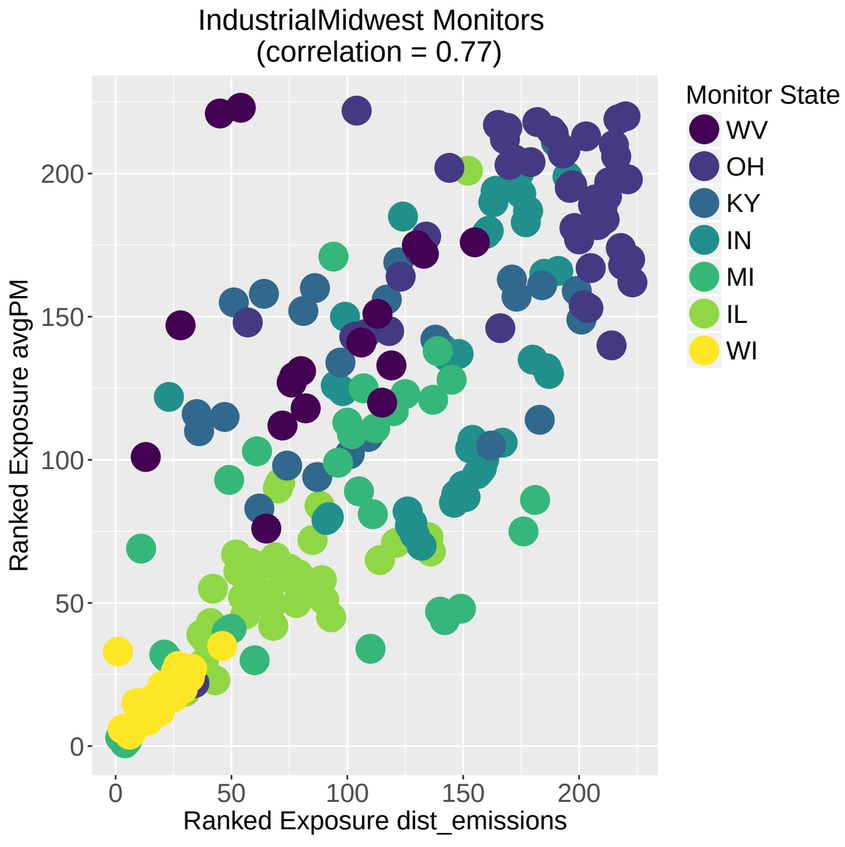
Monitor exposure:
sum of avgemissions*(1/log(distance)), year_distLag 2005

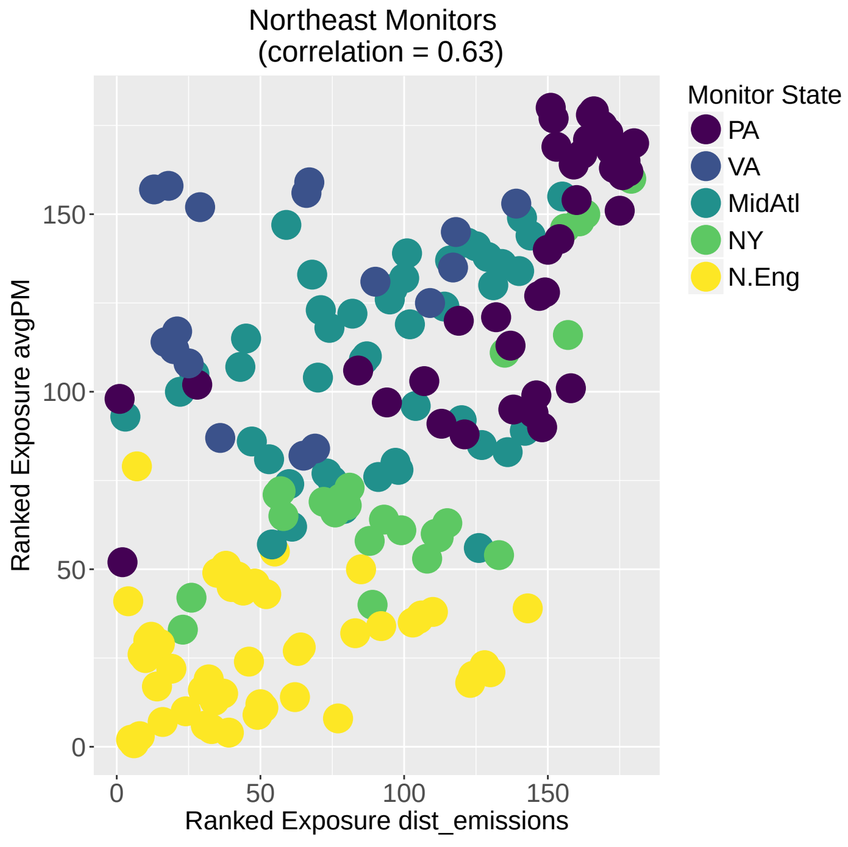


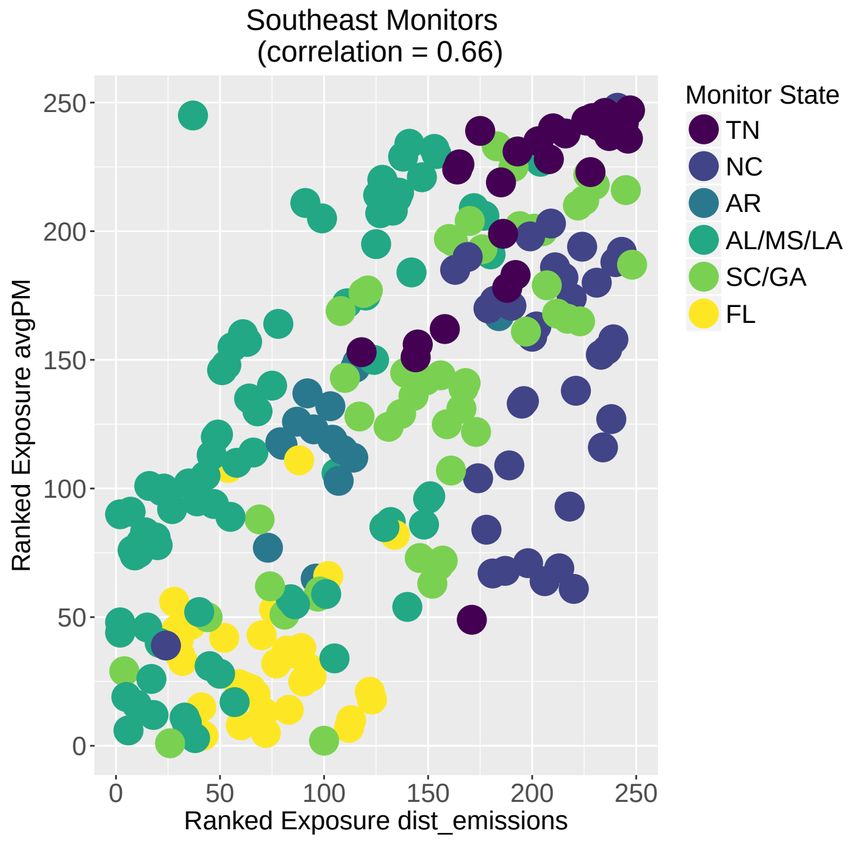
Monitor exposure:
avgPM, decomposed75 year_distLag 2005



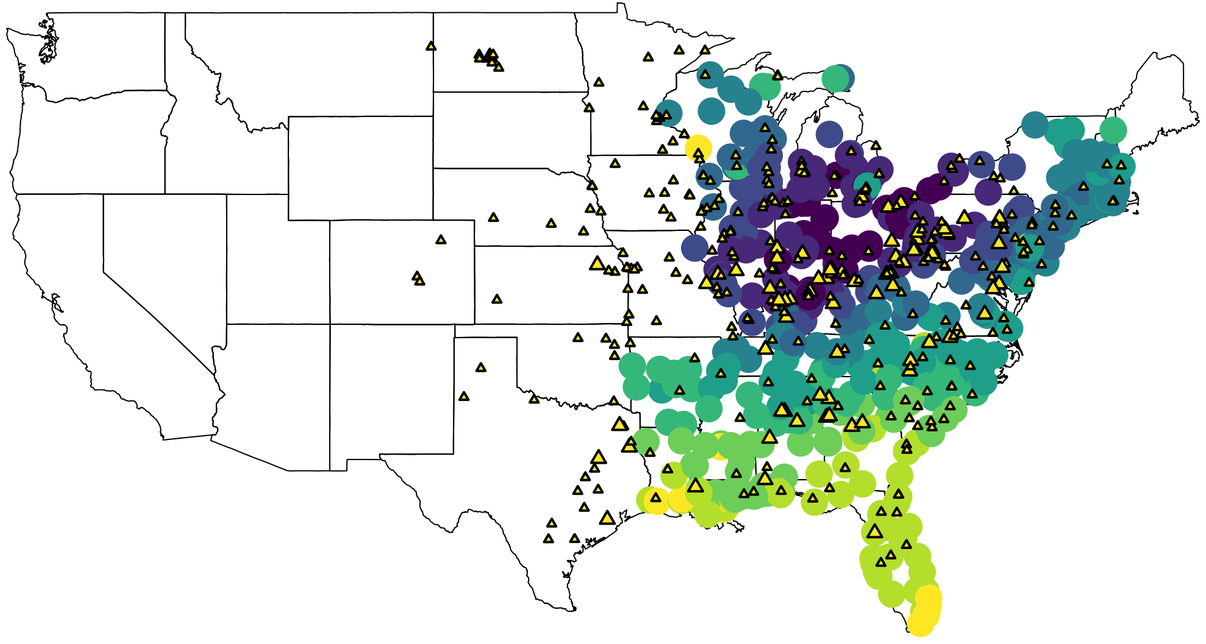
Comparison of coal emissions exposure
(sum of (1/log(distance))*avgemissions vs. low freq PM)



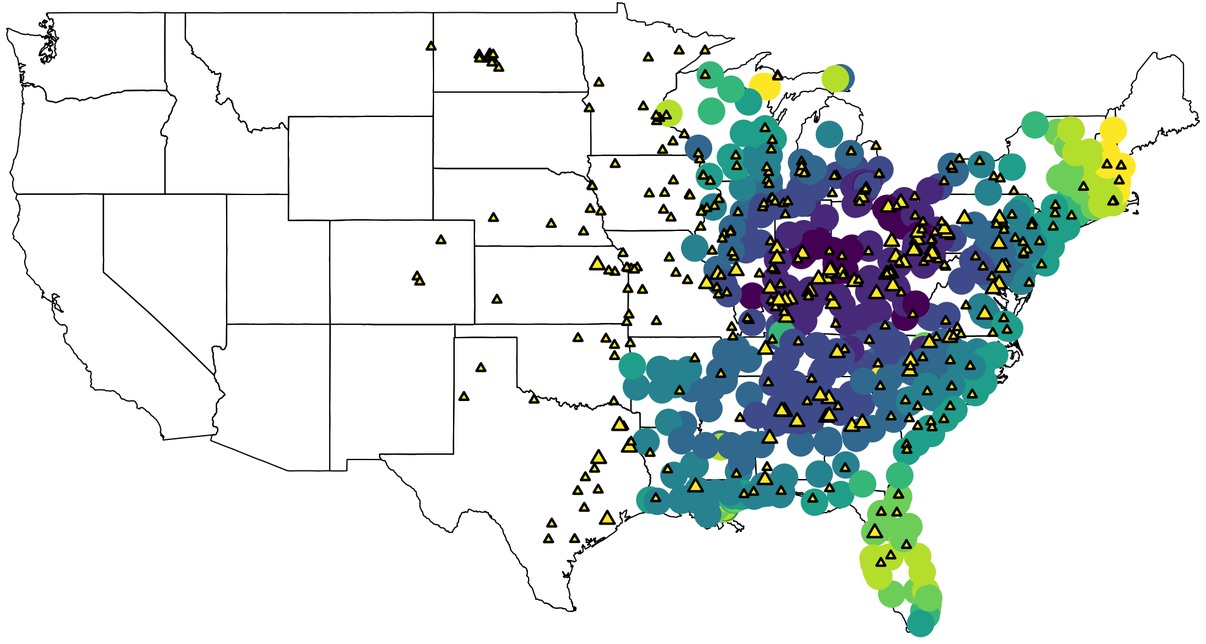




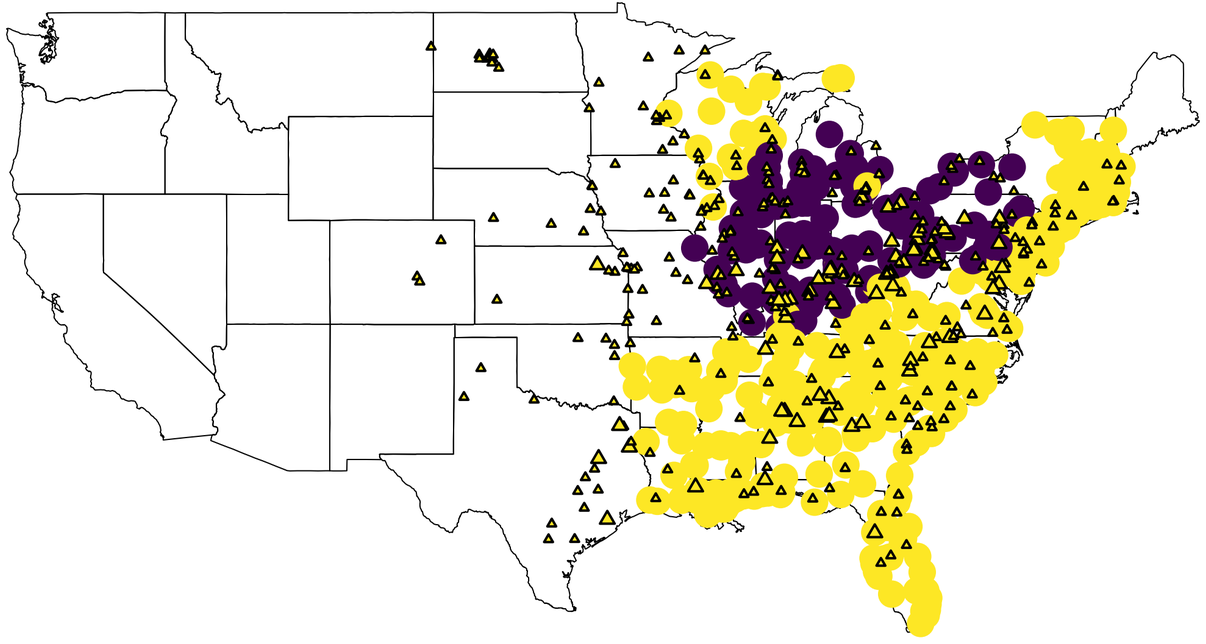
Monitor exposure: num_edges, year_distLag 2005



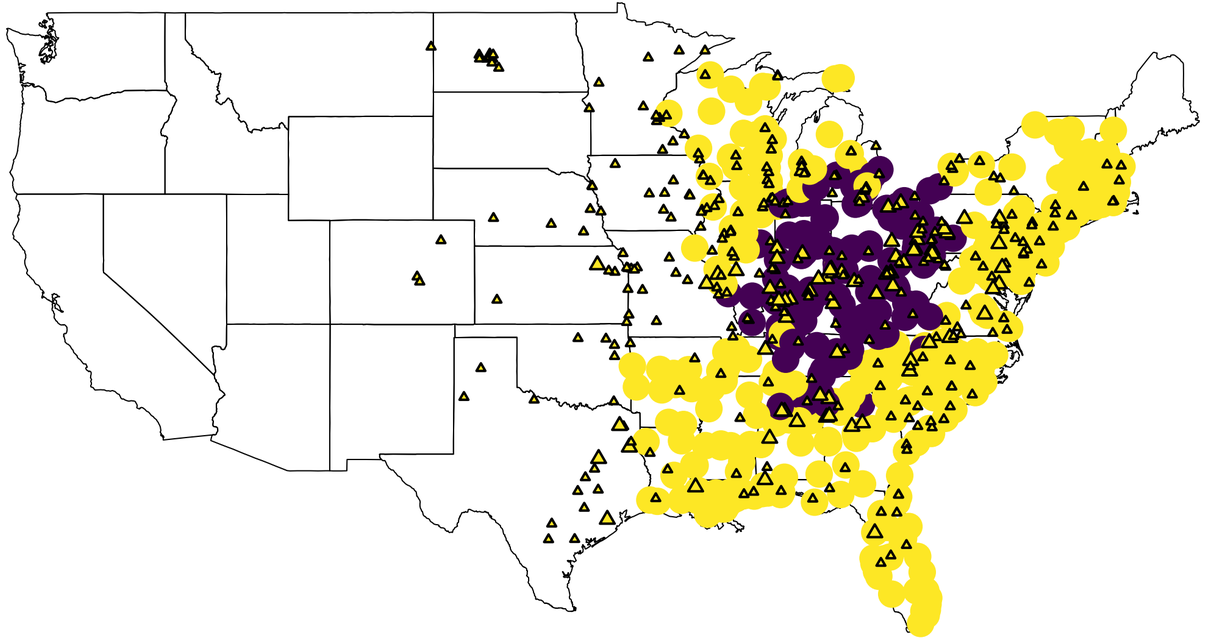
Monitor exposure: avgPM, decomposed75 year_distLag 2005



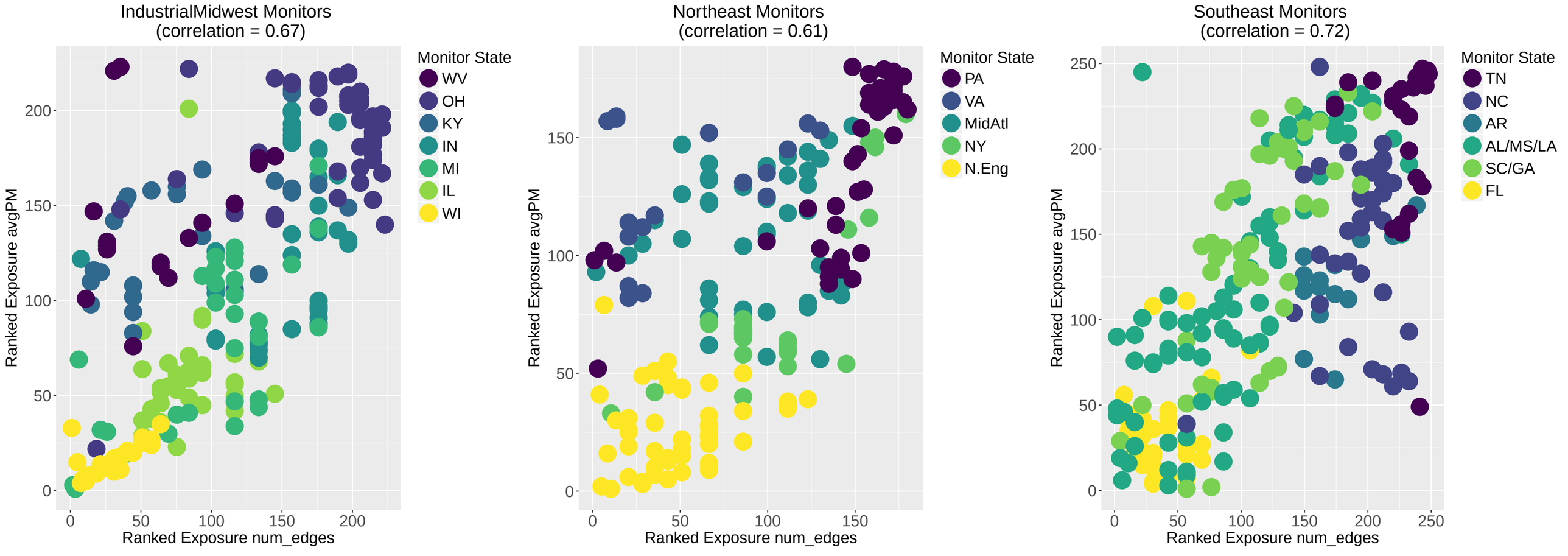
Highest exposed: num_edges, year_distLag 2005



Highest exposed: avgPM, decomposed75 year_distLag 2005



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



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