**Definition of Participation Networks**

Our participation networks are not unlike the livelihood landscape networks generated by Cinner & Bodin (2011). We have a weighted, directed network which represents the map of how vessels connect fisheries to one another via their participation.

Calculate participation networks at port, county, and state scale [done]

Description of Network Statistics

Fishery level analysis (similar to individual occupation analysis of Cinner & Bodin)

Centrality measures for each fishery across each port (eigenvalue centrality? Need a measure that can take directionality and weights into account)

Network level analysis (similar to occupational interrelations of Cinner & Bodin)

Network density (Cinner & Bodin: sum of edge weights/max edges possible)

AFI (compare to network density) – I think mine will be better because scales with network size

Network centralization: evenness of connections across a network: seems like the value decreases as network becomes more even (i.e. one node is less central than rest). Not sure how to interpret it and didn’t find much in Cinner & Bodin about what it actually means.

Calculate statistics for each network

Check: is network statistics correlated with size? Size measured as: number of trips, amount of biomass, number of boats, amount of money

Currently: stuck a bit on network statistics, but should just start with their