SES vulnerability 022216

The plan is to:

- determine correlations between top10 metiers based on a cutoff of 10 vessels not 10 vessel-years

- run linear regressions between metier trips, rather than correlations, so that we can use slope coefficients for interaction strengths while incorporating uncertainty. might be better to just bootstrap the correlation coefficients, but then can't include year effect.

- compare steady state in a 10 node network with POT\_1 to steady state in a 9 node network without POT\_1. for all analyses, begin each node at the observed proportion for trips relative to all trips in top10

- to translate these steady state predictions to the real world, we will multiply relative abundance at steady state by the avg annual total number of trips (2009-2013) in the top10 metiers (upper bound) or the avg annual total number of trips (2009-2013) in the top9 metiers (without POT\_!) (lower bound)

- consider transient dynamics in 10 node vs 9 node network during approach to steady state, especially during first 1-2 time steps.

- repeat this for a couple of individual ports