Read me 020116

* Emma homework: • troubleshoot potential spurious correlations and create commented code for repeating this in the future
  + Most looked fine (though there were few data points causing métiers to be linked), except
    - MSC\_1 métier is miscellaneous, which is dominated by red sea urchin diving, also includes octopus catch. Octopus are caught in crab pots, which causes the correlation between POT\_1 and MSC\_1
    - Ask Erin if octopus are caught in crab pots
  + See “examining\_correlations.R”
* Re-do correlations
  + Linear regressions, will allow incorporation of uncertainty
  + Make sure the 10 vessel cutoff is for vessels not vessels-years
* Rerun crab simulation but use 0 instead of -1, as we want to simulate a complete closure of the crab fishery
* How to account for size of each fishery?
  + 2 step analysis: 1) FCM simulation, 2) multiply relative abundance from simulation by total # trips in network
    - Total # trips in network can be bracketed on upper and lower ends:
      * Upper: Re-allocate all crab trips to other métiers
        + This is nice because it reflects emma’s analysis suggesting that dropouts are uncommon
      * Lower: drop all crab trips and re-allocated all trips remaining from other métiers
* create top 90% for each of the ports listed at the top of this doc and create correlation matrices based on trips, revenues, pounds
  + tell emma when matrices are on git so she can do structural properties
* journal club with jimmy and emma
  + can loop do transient dynamics? Is it less appropriate when we have reasonable estimates of interaction strengths?
* Measure effect of decrease crab based on disparity of transient dynamics between steady state sim and perturbation sim?