A first step toward monitoring theory

Introduction:

Applications of long term ecological monitoring data

* EBFM, Meta-analyses, Working groups
* Limited by funding
* Limited by methods of analysis

Emphasis on parametric methods

* Correlations break down
* May not

Methods:

1. Simulate multispecies/environmental data
   1. Make sure there is signal there
2. Deprecate the data
   1. Weekly, monthly, quarterly, annual sampling
   2. See how the models perform
3. Identify correlations and generate predictions
   1. With Random Forests
   2. With Multivariate EDM methods
4. Scale the number of species up or down