Introduction (Ecopath)

Ecopath with Ecosim
Ecosystem modeling tool;
Describes an ecosystem
Snapshot
Time dynamic
Spacial dynamics
Scientifically recognized;

Introduction

Dataset

Initial:
Individual Scenario
Set variables
Fishing effort (4)
Marine protected areas (4)
Output variables
Value, Cost, Profit per fishery (4)
Biodiversity (4)
Scenario comparison
Value, Cost, Profit, Biodiversity

Now:
Catch (4)
Biomass (4)
Cost (3)
Effort (3)

Background
Equation calculator (ESRI)
Small multiples (Tufte)
Lens
Layers
Saturation

Usage
By scientist
A lot expert audience;
Benefits general audience.
GOALS: Comparison
between different simulations;
between time;
between variables.

Demo

Components/Libraries
Toolbox
Users can visualize type of data;
Visually flat;
Spacing/Alignment/grouping.
Tool units
Layered information for small area;
Icons representation.
Equation
Visualize and Mechanize creation;
Argued to help memory;
Instant feedback of data;
Use of 3D where needed.

Small Multiples (Maps)
Good overview.
Small Multiples (Graphs)
FREEBEE! By ZedGraph
Scalable to larger data
Future ability to zoom in.
Lensing
For each data set;
For sum equation.

Strengths/Weakness
Weakness:
Lacks full functionality;
Slow;
Bad Legend scale;
Equation model can be strengthen.

What I learned

 Concepts are just _ the battle
Nitty gritty
Viztools are great, but are to specialized

Overall:
POTENTIAL