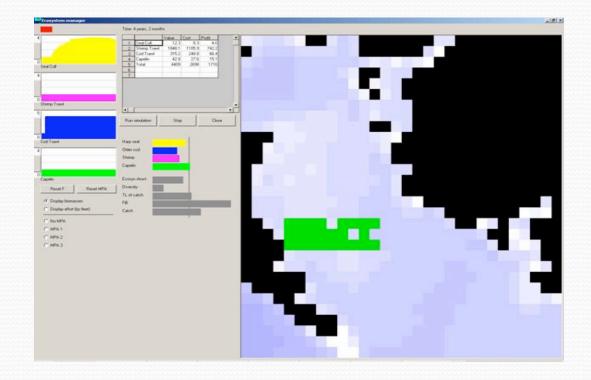
#### **Ocean Futures**

By Sherman Lai CPCS 533 Info. Viz.

# 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)

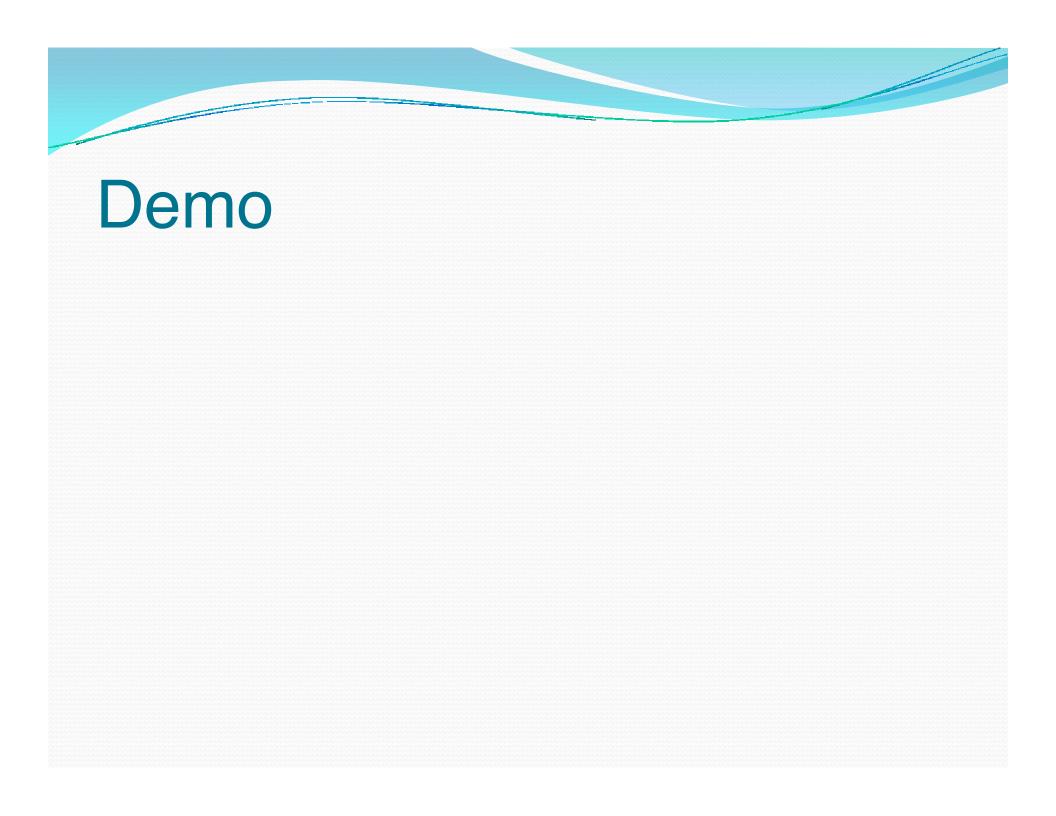
## Background

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.



## **Components/Libraries**

Toolbox

Users can visualize type of data;

Visually flat;

Spacing/Alignment/grouping.

**Tool units** 

Layered information for small area; lcons representation.

Equation

Visualize and Mechanize creation; Argued to help memory; Instant feed back of data; Use of 3D where needed.



#### **Components/Libraries**

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