Exploring Ocean Futures
By Sherman Lai
Outline

- What is Ocean Futures?
- Ecopath with Ecosim Dataset
- Goals
- Solution
- Progress
- Time line
- Comments?
Ecopath with Ecosim

- Scientific tool for ecosystem management
- 18 years of development by scientist
- Describes an ecosystem
  - Snapshot
  - Time dynamic
  - Spacial dynamics
Individual Scenario
- Input variables
  - Fishing effort (4)
  - Marine protected areas (4)
- Output variables
  - Value, Cost, Profit per fishery (4)
  - Biodiversity (4)

Scenario comparison
- Value, Cost, Profit
- Biodiversity
Goals

- Extend Current interface for laymen;
  - Clear use of modes;
    - Exploration;
    - Run;
    - Discussion.
Exploration
Run
Discussion
Solution

- Smarter use of layering;
- Small multiples;
- Overview plus detail;
- Smarter use of color;
- Blank comparator;
- Bank to 45 degrees.
Progress

- Currently developing the COM interface to combine .Net and VB6;
- Strong idea of required variables;
- Calling redraw delegate.
- Nov 11\textsuperscript{th} - Gather variables required for simulation runs. Create more variables if required.
- Nov 18th - Develop class framework for drawing maps, fishing effort graph, biomass plots, biodiversity plots.
- Nov 20th - Completion of exploration mode.
- Nov 25th - Completion of run mode.
- Dec 2nd - Completion of discussion mode.
- Dec 9th - Completion
Comments???

Use of lens or Blink Comparator?