Exploring Ocean Futures

By Sherman Lai

Outline

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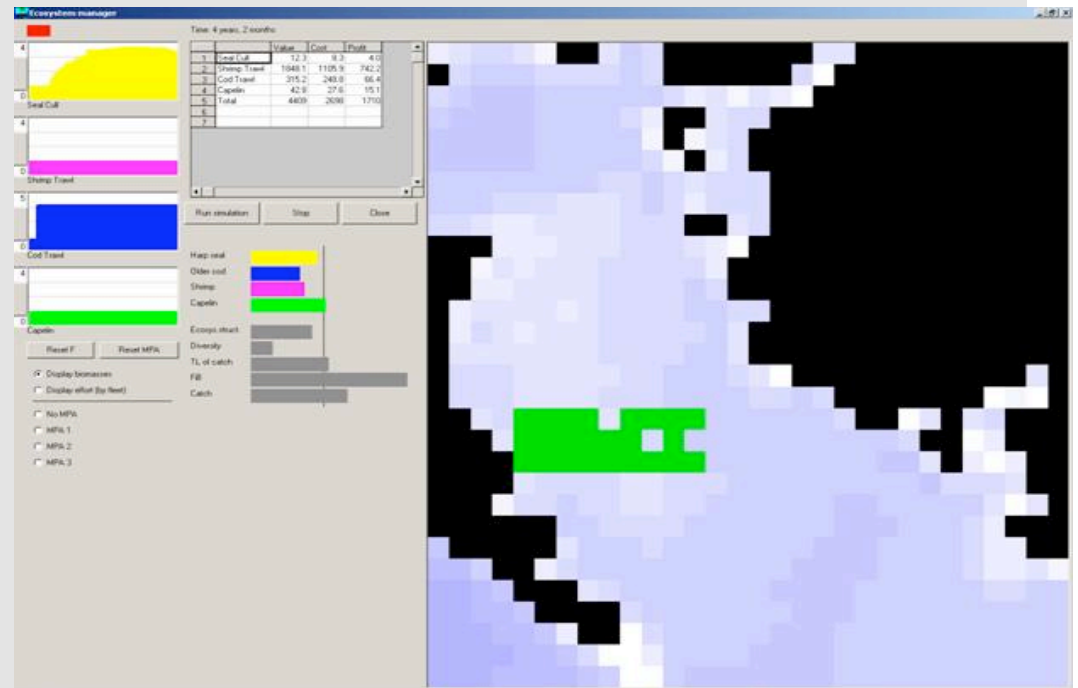- Solution
- Progress
- Time line
- Comments?

Ecopath with Ecosim

Scientific tool for ecosystem management

18 years of development by scientist

Describes an ecosystem

- Snapshot
- Time dynamic
- Spacial dynamics

Dataset

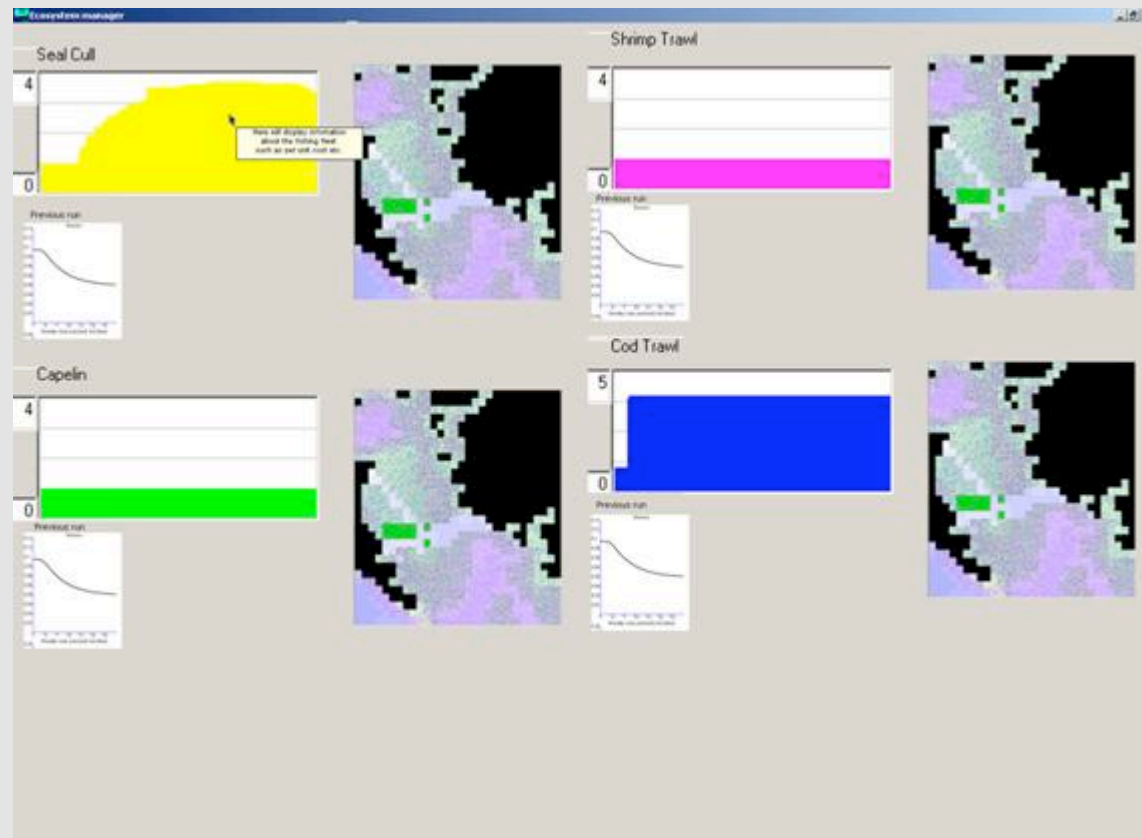- Individual Scenario
  - Input variables
    - Fishing effort (4)
    - Marine protected areas (4)
  - Output variables
    - Value, Cost, Profit per fishery (4)
    - Biodiversity (4)
- Scenario comparison
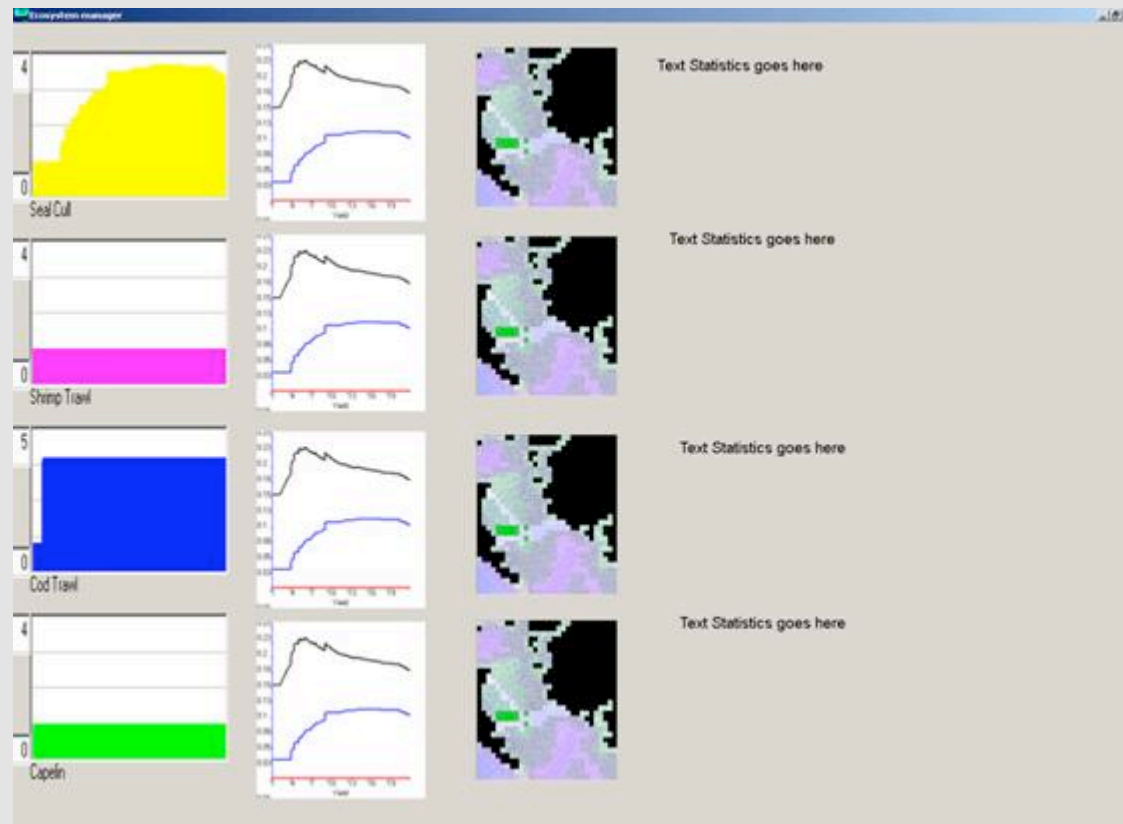 - Value, Cost, Profit
  - Biodiversity

Goals

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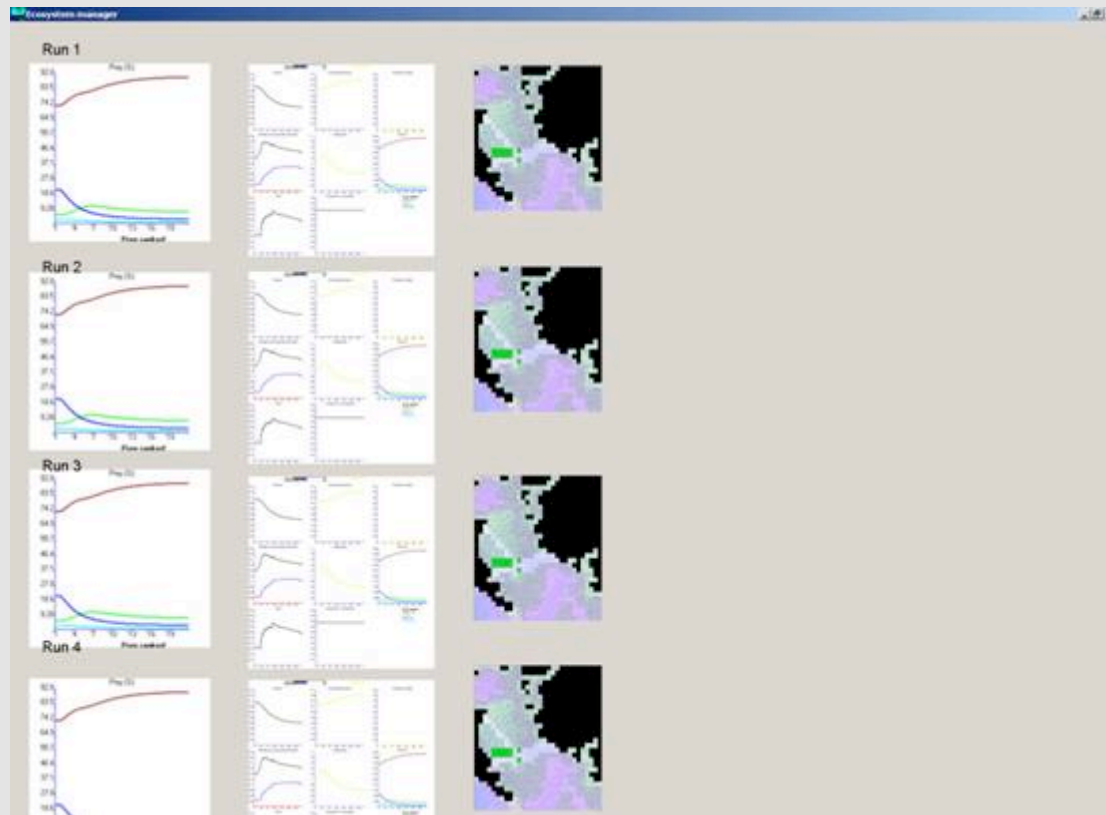 - Exploration;
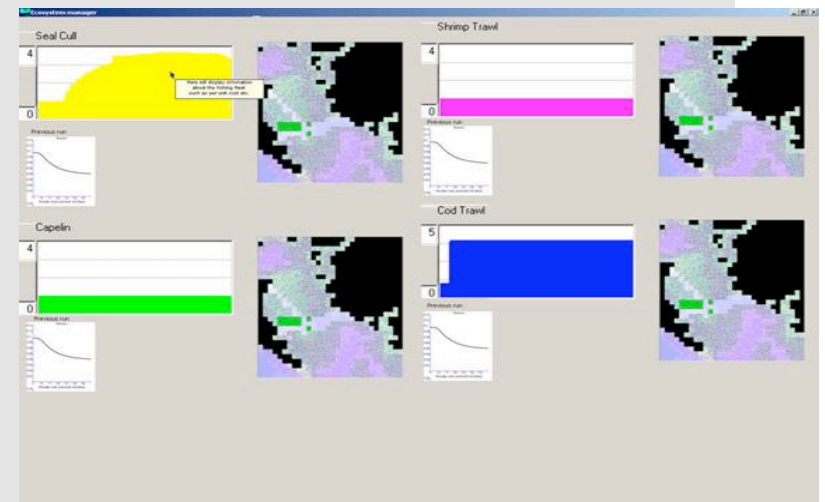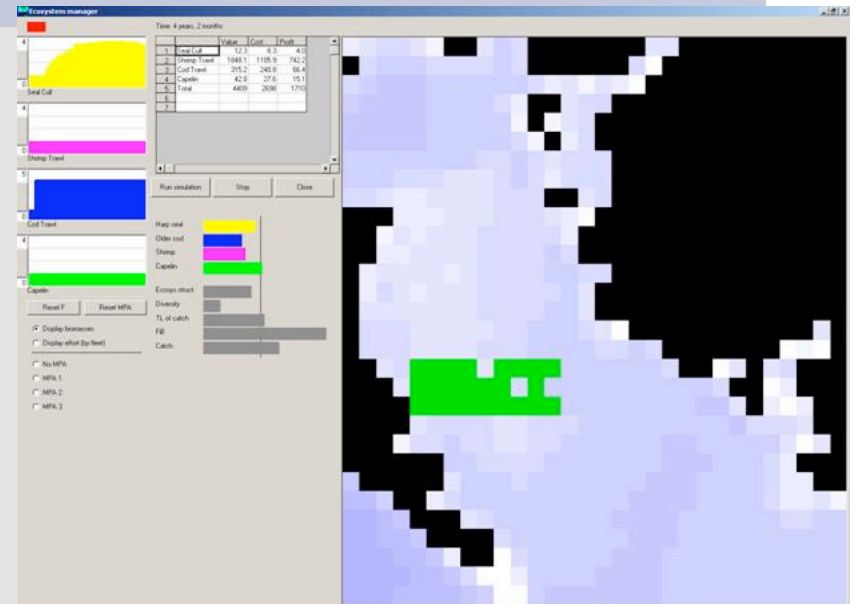 - Run;
  - Discussion.

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.

Time line

- Nov 11th - 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?