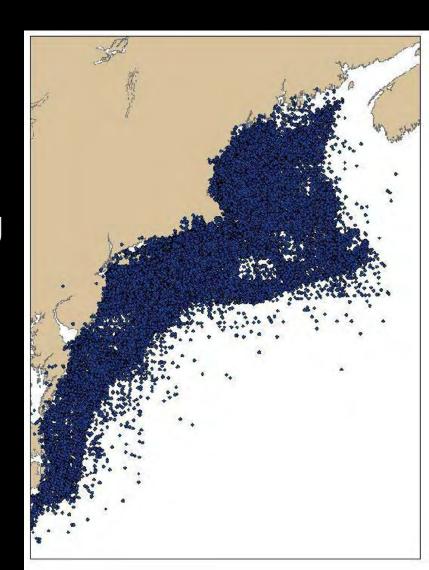


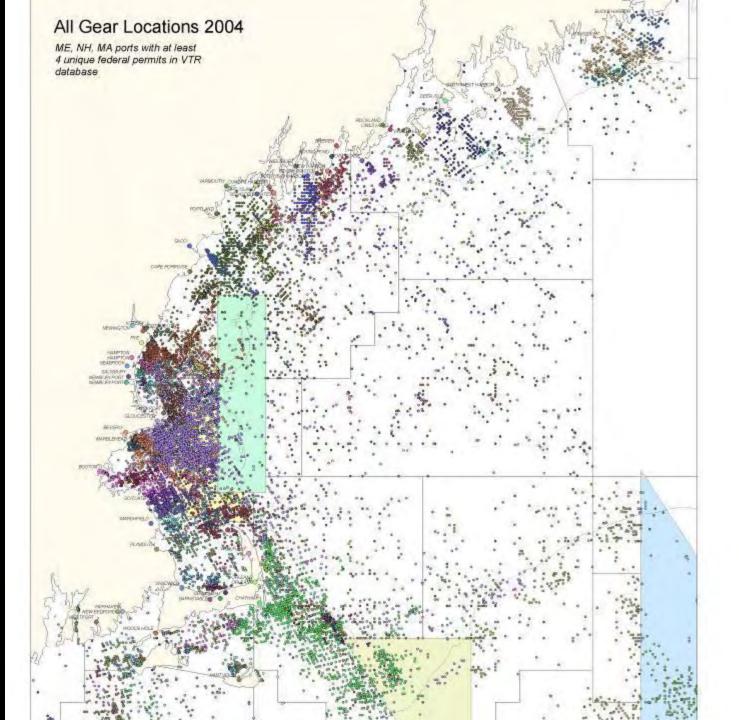
Dr. Kevin St. Martin Rutgers, University Department of Geography

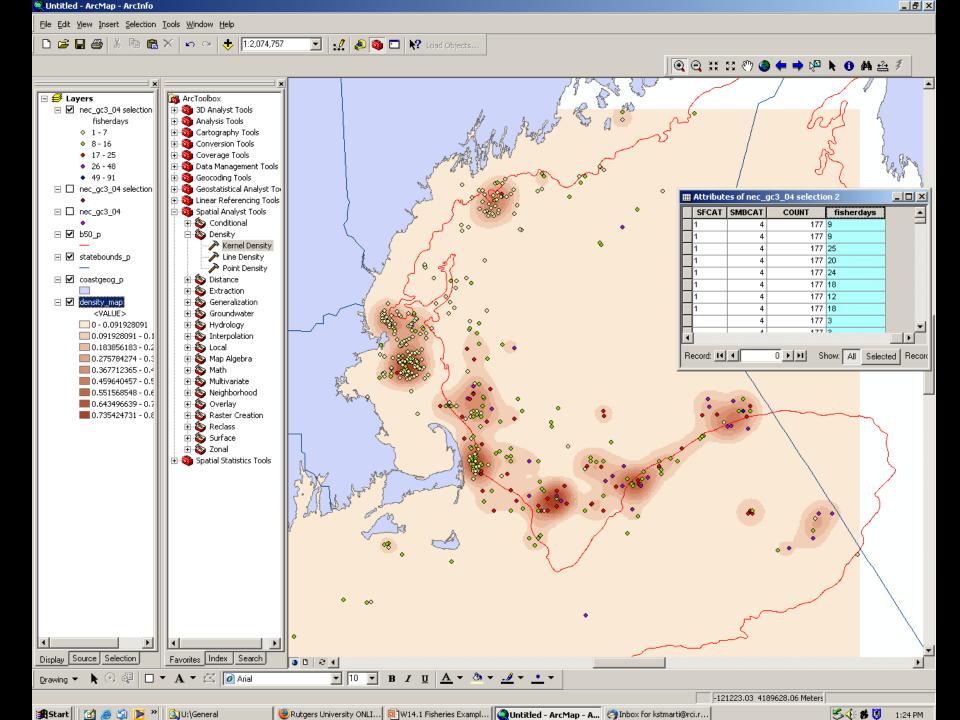


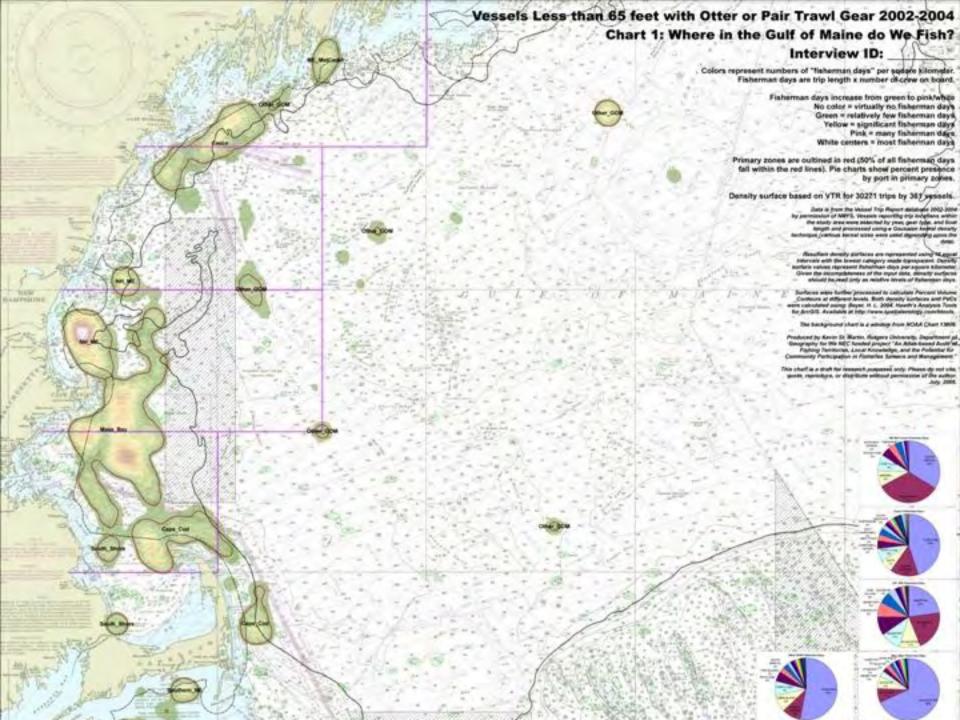
A Methodology for Mapping "Communities At Sea"

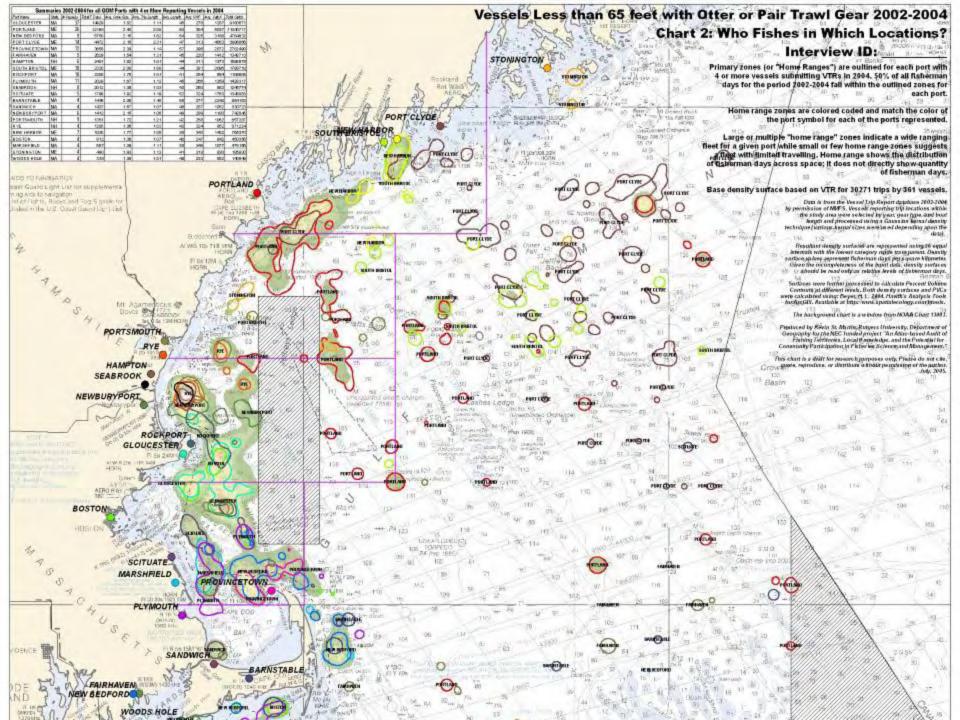
- Defining "community."
- Using NMFS VTR data.
- Communities as starting points/places.
- Developing analyses and measurements by community.

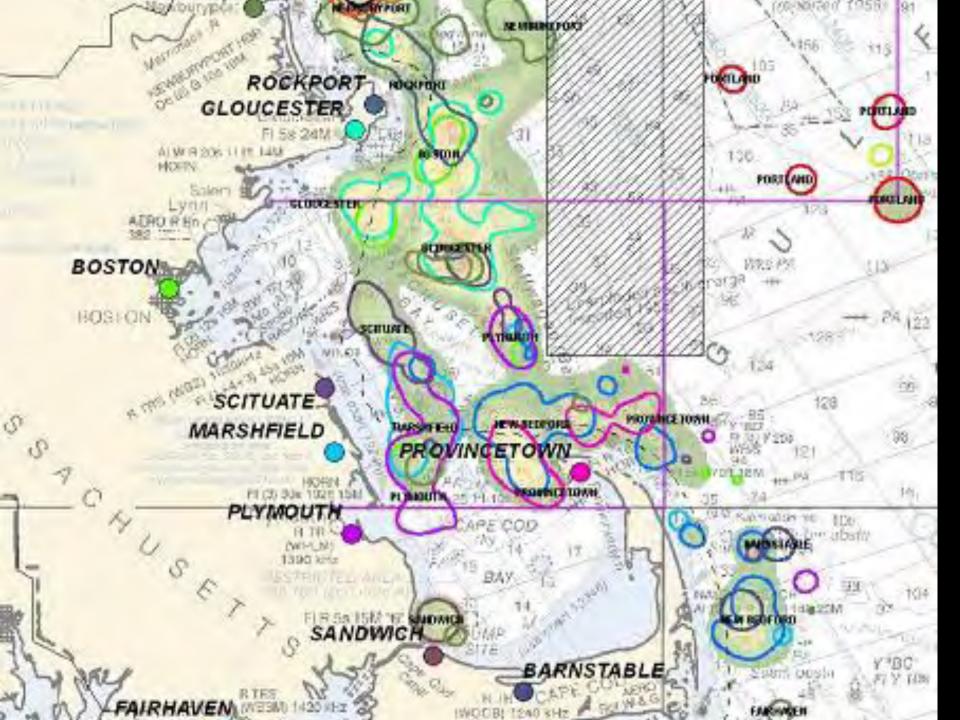






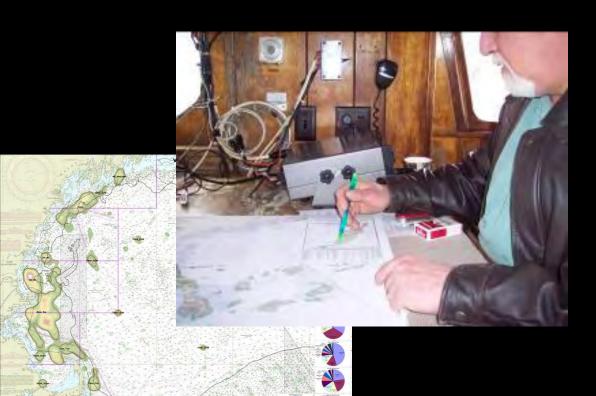


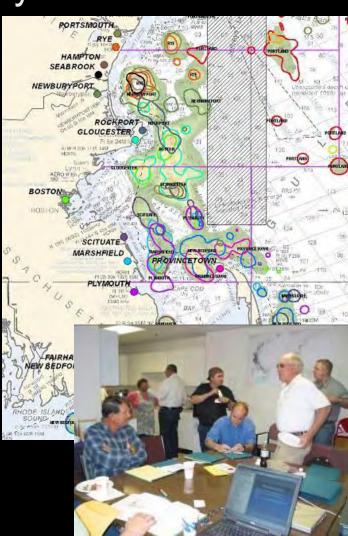




Engaging Communities

- Giving meaning to locations on map.
- Giving meaning to "community".
- Assessing LEK.



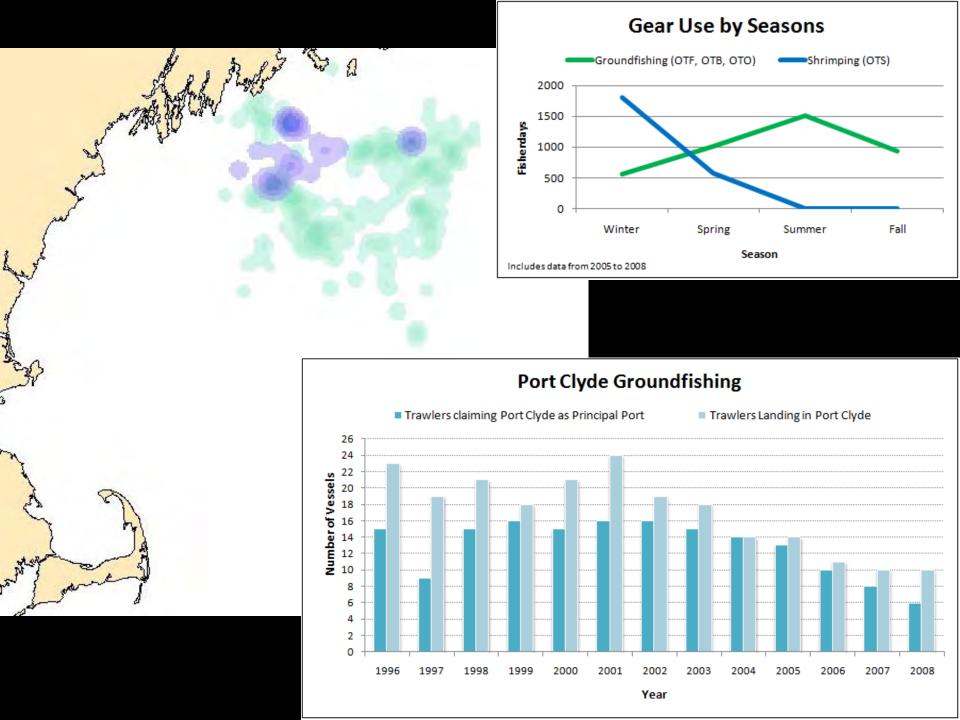


Analyses by "Community"

- Revealing different types of territories.
- Change over time in fishing activities and patterns.
- Relationship to particular habitats or species range.
- Impacts of place-based regulations, MPAs, MSP, etc.
- A host of measurements by "community at sea."

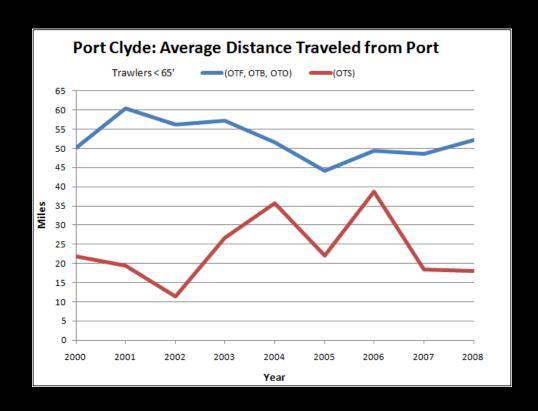
Port Clyde: Community Concerns

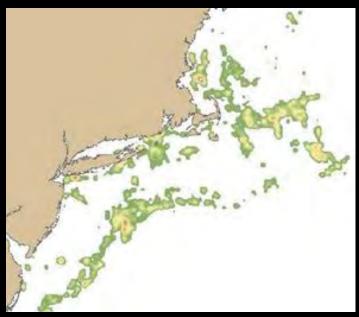
- It's a small community cut right on the shore where I would say 80% of the people that live there rely on fishing in one way or another to survive.
- (W)e have people that catch the fish, people that work on the dock that handle the fish, people that drive the truck to get the fish to the fish auction, then we have the people who own the restaurants that buy the local fish to sell to people that come to eat, and the store owners doing the same, putting the fish in the store. (That's) pretty much it right there.
- There were more boats (in) Port Clyde and its surrounding area. Tenant's Harbor, there was a bunch of boats going out of there. Spruce Head. You know, all up and down the coast there were boats ground fishing.

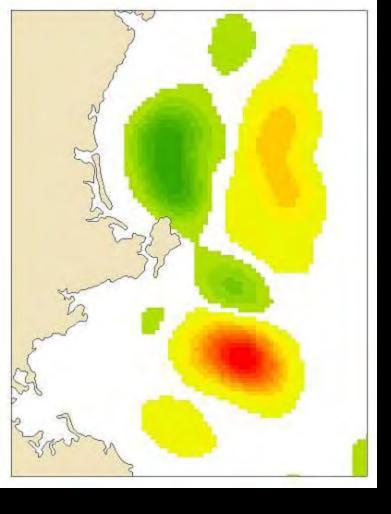


How have fishing practices changed?

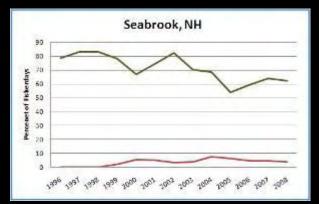
• (Y)ou don't have the time to go look. You have to pretty much pray that you land right where the fish are because the clock's ticking. It's changed fishing patterns.

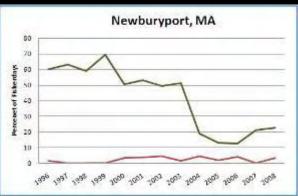


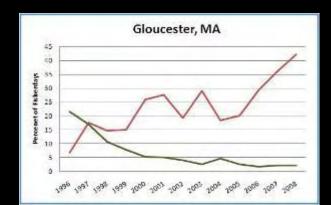


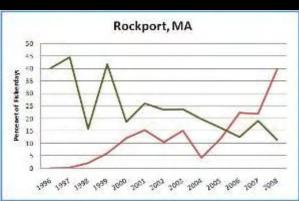


Which Communities?









Innovation in Port Clyde

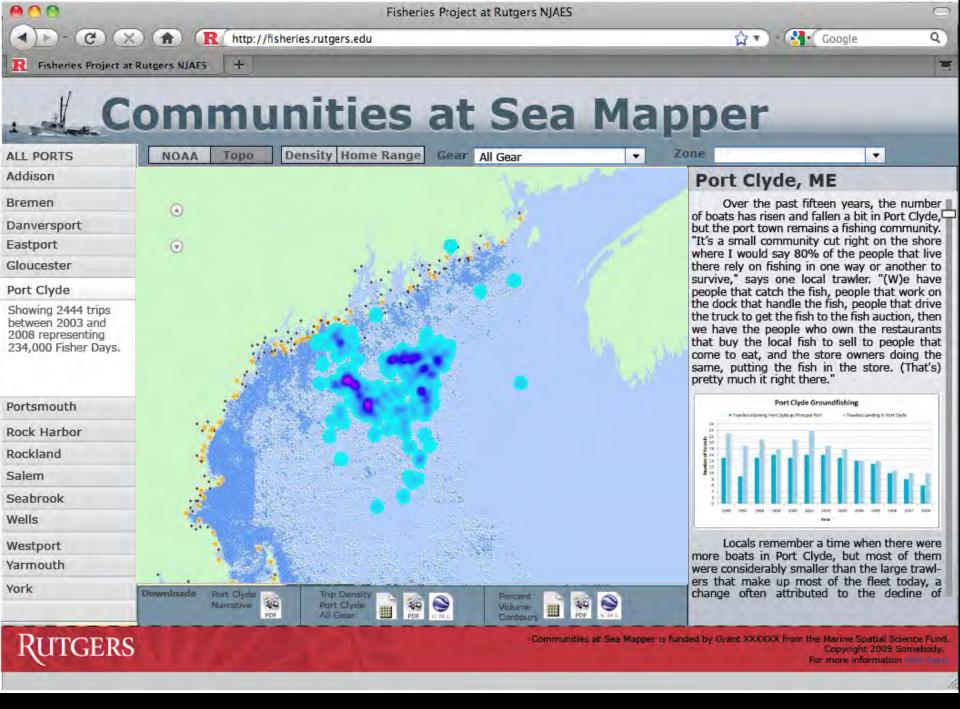
- The old way was clearly not working and anyone who had just the smallest bit of foresight could see the end of groundfishing in Port Clyde right around the corner.
- Although we rarely talked about it, we did feel protective and caring about the areas of the ocean that we fished.











Conclusion

- Mapping Communities at Sea
 - Producing data about and with communities.
 - Analyses by "community at sea."

Creating a basis for community engagement in spatial (and ecosystem) management and planning.

