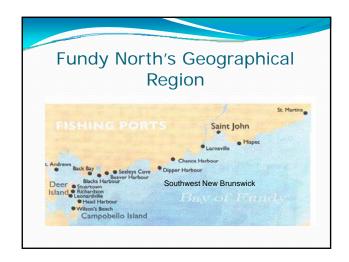


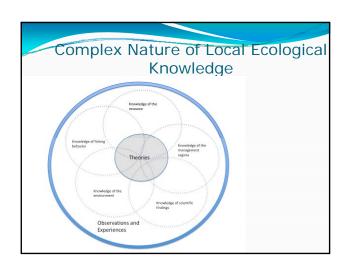
Local Ecological Knowledge (LEK) Study Background

- 2009 1000's of pounds lobster found dead from pesticide poisoning - several locations SWNB
- killed by a pesticide used to control sea lice in salmon aquaculture (not approved for use in Canada)
- Insufficient science nature of the interactions: aquaculture and the inshore fishery
- Reinforces the need for research that targets environmental impacts





Study Objectives To gain some understanding of the fishermen's local ecological knowledge: Observations of recent environmental changes in their fishing grounds To consolidate and articulate fishermen's concerns so that they can be presented in a more formal context Comparison of areas where aquaculture has been for some time with areas of more recent development To suggest directions for future targeted science.

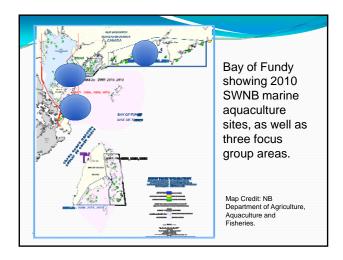


Data Collection

- 3 communities; 1 heavily impacted, 1 less heavily, and one hardly impacted.
- 5 Focus Groups- 'kitchen' style meetings
 - 3 Fishermen per Focus group.

Questions:

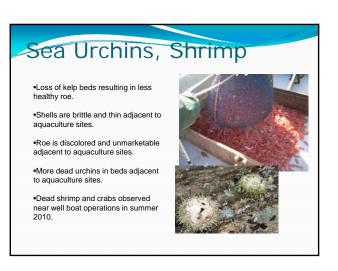
- What changes have they observed in marine environment?
- · What are their theories about causation?
- · How has fishing behavior changed to cope?











General Findings

- · Loss of species habitat (loss of good bottom).
- Changes to health of commercial stocks.
- Environmental problems & indicators (starfish blooms, loss of kelp beds, changes in seaweeds).
- · Displacement from fishing grounds.
- Poor management of aquaculture sites.

Recommendations

- Research Needs:
 - Cumulative impacts of repeated use of pesticides and other chemicals
 - Track signifiant environmental changes near aquaculture sites, especially over time
- Effective Integrated Management Institutions:
 - Fisheries & Aquaculture Working Group



Acknowledgements

The authors gratefully thank:

- The many fishermen who gave up their time to the focus group discussions
- Coastal CURA for funding the project
- Donna Curtis (Photo credits)



