



UNIVERSITY
OF MANITOBA



*“Community-based resource
management and food security in
coastal Brazil”*
(IDRC – Brazil/Canada Program)

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The program

- aims to contribute to food security and the improvement of fisher livelihoods in coastal Brazil.
- has a multiple resource focus, including fisheries, forest resources (including non-timber forest products such as medicinal species), household level agriculture, and food security in general, focused on fish.
- considers four elements as part of the process of linking local systems towards community-based management and food security:
 - the understanding of the local use of natural resources;
 - the understanding of fishers' behaviour, such as their trade-offs in the decision-making processes;
 - the knowledge of the marine space used by fishers, their territories, expansion of the marine space used for fisheries, and impact of external drivers; and
 - the knowledge that fishers hold, specifically on the biology and ecology of key fish species, including commercial species.
- These four elements will form the knowledge basis of the program to conduct applied research across scales, from local initiatives to government supported measures, towards adaptive management of resources, with local participation as the core of the process.

Design of the IDRC Program

Three phases

Phase I (1st and 2nd years)

(i) Research to generate and/or mobilize knowledge needed for Phase II

- monitoring the use of and access to fishing and other livelihood resources;
- stakeholder analysis;
- analysis of current legislation on coastal resource management in Brazil
- ethnoecology;
- value chain analysis for valuable species;

(ii) Building local capacity to engage stakeholders in governance processes

- workshops involving fishers and other stakeholders (horizontal/peer-to-peer learning);
- assessing lessons learnt from Canadian and other international cases;
- training of stakeholders on adaptive co-management: concepts, opportunities and challenges (lessons learnt from other Brazilian cases)

Design of the IDRC Program

Phase II (3rd and 4th years)

- Development of a community-based resource management (CBRM) plan
- Implementation of the CBRM plan
- Development of value-added products and/or strategies for trading products at higher prices
- Building local capacity (training) for developing and marketing value-added products
- Assisting the development of community-based entrepreneurship.

Design of the IDRC Program

Phase III (5th year)

- Participatory monitoring and evaluation of social, economic and ecological variables necessary (a) to promote adaptive co-management and (b) to secure food access and livelihoods
- Revision/adaptation of the plan as needed, the feedback-learning step; analysis of barriers and opportunities;
- Developing institutional capacity for learning and innovating for governance; and
- Synthesizing lessons learnt from the process and sharing them with other fishing communities, NGOs, government agencies, funding agencies, academics, and others.

Choosing study sites

Starting point: Begossi et al. 2009 FIFO/IBIO report

Preliminary fieldwork

January 24th to 28th, 2010 (C. Seixas, N. Hanazaki, N. Peroni, L. Araujo, L. Cavechia, M. Giraldi)

- We visited 8 communities to gather information about: fishing, agriculture, use of plant resources, community size, relevant economic activities, infrastructure and social services. estimated number of canoes and boats (and *ranchos de pesca*) and manioc flour mills; leadership, local organizations and previous projects in the community.

March 11th to 18th, 2010 (F. Berkes, C. Seixas, L. Araújo)

- 3 more communities

Suggested micro-regions to focus research effort

	Micro-region I			Micro-region II		
Key characteristics	Barra Grande	Praia Grande*	Ilha do Araújo	Trindade*	Praia do Sono	Ponta Negra
Difficult to access	+	+	++	+	++	++
Tourism development	+	++	+++	+++	++	+
Potential of social capital	+++	+	+	++	+	++
Shifting agriculture	+++	+	+	+	+	++
Use of plants	+++	++	+++	+	++	+++
Fishing	+	++	+++	+++	+	++

* Fishing landing monitored by Begossis group
 + lower, ++ medium, +++ high

Suggested micro-regions



Source: Begossi et al. 2009

THANK YOU!
OBRIGADA!