

People. Development. Impact.

Challenges in incorporating local knowledge in marine spatial planning decision-support tools

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- Communities and organizations are increasingly called upon to provide knowledge/data
- Community/local "datasets" are "integrated" with other datasets





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NCCOS's Biogeographic Assessment Framework to support marine spatial planning

Where does local knowledge fit?





Fig. 3. Percentages number and of different type of Decision Support Tools (DST) users.



Communities the weakest link in MSP?

 How to effectively incorporate local knowledge and perspectives in DSTs that are mostly built for handling quantitative data, designed by western/scientific assumptions, and run by external actors?



Three interconnected issues



The nature of local knowledge

Community Based Participatory Action Research (CBPAR)

- \circ Interconnected
- \circ Observational
- Experiential (grounded in everyday life)
- \circ <u>Oral</u> transmission
- Both comprehensive and specific
- Local but affected by global conditions





A map-making process that attempts <u>to make</u> <u>visible the</u> <u>association</u> between land (and ocean) and local communities.



Six purposes for initiating a participatory mapping project

IFAD 2009: Good practices in participatory mapping: A reviewed prepared for the International Fund for Agricultural Development, IFAD

- 1. To help communities articulate and communicate spatial knowledge to external agencies
- 2. To allow communities to record and archive local knowledge
- 3. To assist communities in land-use planning and resource management
- 4. To enable communities to advocate for change
- 5. To increase the capacity within communities
- 6. To address resource-related conflicts







Data challenges

Akkimaniq

Sea/land Narrative/context Social Memory Interconnections Seasonality Boundaries

Akkimaniq, "exposed to ice on all sides" is a point that "crushes and grinds the ice"



Aggiupinik

SEASONALITY

OF MAPPED

KNOWLEDGE

Camping on sea ice; seal hunting

Late fall Winter Summer Spring Majuqtulik Caribou hunting lglulik Winter camping; walrus and seal hunting Naujaaliruluk Egg gathering Aulativiajuk Caribou crossing Aggiupinik Camping on sea ice; seal hunting

Part of a space/time matrix that defines the sociality of Inuit life in the Arctic, and that involves points of intersection or encounters.

	INTERSECTIONS DEFINING ALARNIQ
	Landfast ice attaches to Alarniq
	Enough people gather near Alarniq in the spring to hunt walrus
	Winds and tides move moving ice towards shore/landfast ice
	Walrus's habitat in the moving ice/floe edge
Alarniq	

Sea ice

- Areas that fluctuate
 - Recurring and dynamic
 - Extension of home
 - Marine and land spaces
 - Hubs of life









Path forward:

- o DSS and DSTs that can account for:
 - quantitative and qualitative
 - scientific and local
 - clearly understood cross-culturally
 - Social learning goes both ways (knowledge co-production)
 - DSS should be supported by and enable whole-of-government approaches
 - Need for enhanced data management, ownership, sharing and curation protocols
 - Youth capacity-building a huge priority towards self-governance goals and reconciliation goals



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THANK YOU





