Realising the potential of biosphere reserves as learning sites for sustainable development

Reflections on experience of participatory,
comparative BR research
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My research interest

- How can governance and management be designed to support the biosphere's capacity to maintain human wellbeing in the Anthropocene?
- Focus on the relationships between stakeholder participation, learning processes and outcomes in various social-ecological contexts
- Explore biosphere reserves as examples of onthe-ground attempts to achieve this
- Bridge practice, policy and research

GLEAN (gleanproject.org) 2012-2016

A Global Survey of Learning, Participation, and Ecosystem Management in BRs

Lisen Schultz, Andreas Duit, Simon West, Alba Mohedano Roldan, Örjan Bodin, Cecilia Lundholm, many master students.

Stockholm university (Sweden).

BiosACM 2013-2016

Diagnosing processes and outcomes in BRs of adaptive co-management

Lisen Schultz, Ryan Plummer, Julia Baird, Örjan Bodin, Beatrice Crona,
Derek Armitage and several assistants

Stockholm university, Brock university and University of Waterloo (Canada)

GLEAN

A Global Survey of Learning, Participation and Ecosystem Management in Biosphere Reserves



Case studies

GLEAN: On-site case studies by master students and PhDs, 2 months field work including interviews, observations, collection of documents, maps etc

 La Palma, El Hierro, Menorca, Donana, Cape West, Kruger to Canyon, Mornington Peninsula, Noosa, Bosque Mbaracayú

BiosACM: Parallel case studies during 3 years, including social-ecological inventory, interviews, survey, social network analysis, participatory resilience assessment

 Frontenac Arch, Georgian Bay, Kristianstads Vattenrike, Östra Vätterbranterna

Some observations

- There is a wealth of experience in BRs that can inform sustainability science
- There is a need to synthesize these to improve policy
 & practice important role for scientists
- Need to find mutual interests between science, knowledge and practice
- Biosphere reserves are very diverse in governance approaches, aims, activities, contexts, challenges – BR science and knowledge is equally diverse
- There is no central repository of BR data that researchers and other knowledge holders can use

Potential opportunities and challenges of international network

Potential opportunities

For local knowledge-holders:

- Help in generalizing insights
 from individual site level –
 improve policy and practice
- Help in monitoring progressFor scientists:
- Access to real-world cases, data, and relevant research
- Target audience for their research

Potential challenges

For local knowledge-holders:

- Takes time from their daily work (respond to surveys, share experiences etc)
- Research not always aligned with their needs

For scientists:

- Takes time from other tasks (respond to requests, share info etc)
- Not all info is relevant to their specific interest

Core features of a living network

- Shared interest
- Shared values
- Sense of community
- Open, transparent, inclusive
- Benefits of participating outweighs costs
- Suggestion: Start small, with individuals who show genuine interest and share the MAB vision and mission, grow organically