A pluralistic approach to EBM implementation in the Caribbean.

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Case Study Context

The Caribbean is the most geographically and politically diverse and complex region in the world

90 ⁴ 88		
	Marine Policy 34 (2010) 919-927	
	Contents lists available at ScienceDirect	MARINE
	Marine Policy	POLICY
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Governance characteristics of large marine ecosystems

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ABSTRACT

The Large Marine Ecosystem (LME) concept is widely established as a large-scale approach to coastal and marine management. LME-oriented activities have focused mainly on natural sciences. Socioeconomic and governance aspects have only recently been receiving increased attention. The 64 LMEs that have been defined appeared to exhibit considerable diversity in characteristics that would be expected to affect governability. This paper explores two questions: (1) Do the LMEs vary widely enough in geopolitical complexity that different approaches to governance may be required for different LMEs? (2) Are there groups of LMEs within which one might take similar approaches to governance? The analysis demonstrates that there is considerable heterogeneity among LMEs with regard to characteristics that would be expected to affect governability. It concludes that a diversity of governance approaches will be required to cope with this heterogeneity. It also appears that LMEs could be considered for clusters rather than for individual LMEs and that there can be sharing of experience and learning within clusters. The types of relationships between features of LMEs and the best' approaches to marine governance discussed in the context of emerging governance ideas.

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Geopolitical

- 44 states and territories
- 100 maritime boundaries
- **Cultural diversity**
- Size

- smallest to largest
- 16 SIDS
- Development
 - poorest to most wealthy

CLME TRANSBOUNDARY DIAGNOSTIC ANALYSES: 3 KEY PROBLEMS throughout the CLME+



ROOT CAUSES OF THE 3 CLME⁺ ISSUES

 Weak governance (including legal & institutional frameworks, inadequate environmental quality standards and legislation)

2. Limited human and financial resources

Inadequate (access to) data and information (inadequate knowledge)

4. Inadequate public awareness & participation

5. Inadequate consideration of value of ecosystem goods & services

6. Population and cultural pressures

 Trade and external dependency (high dependence on fish for income and export earnings)

Background and description of EBM arrangements in place What is the problem?

- Considerable research on overexploitation and degradation in Caribbean marine ecosystems
- Limited policy/management impact
- Overfishing and ecosystem degradation continue
- Can an institutional perspective add value?

ORGANIZATIONAL COMPLEXITY

Overlapping and nested fisheries related organisations



There are 30+ regional organisations with relevance to living marine resources

Ecosystem Approach 2008 Symposium vision for marine EBM in the Wider Caribbean

Healthy marine ecosystems in the Wider Caribbean that are fully valued and protected and enhances livelihoods and human wellbeing through strong institutions at local, national and regional levels providing <u>effective governance</u>

that <u>involves everyone</u>, is fully <u>understood and supported by the public</u>



Towards Marine Ecosystembased Management in the Wider Caribbean

AMSTERDAM UNIVERSITY PRESS

Ecosystem Approach Some implementation examples in Caribbean marine & coastal areas

- Sustainable Grenadines Project – civil society capacity building
- Lesser Antilles Pelagic
 Ecosystem Project –
 scientific basis for EAF
- MesoAmerican Healthy Reefs for Healthy People Initiative
- Caribbean Large Marine Ecosystem Project (CLME+)



CLME+ Project (2006-2019) EBM Processes in place/development



CLME⁺ = 2 LMEs: the CARIBBEAN LME and the NORTH BRAZIL SHELF LME 25 GEF-eligible countries + dependent territories + USA

CLME SAP, 2013

25 GEF-eligible countries

19 associated territories of France, USA, UK, The Netherlands,

PDF-B Funding: 2006/07 GEF support- US \$700,000

Full Project (I): 2009/14 GEF support – US \$7M

Full Project (II): 2015-2019 GEFsupport – US \$12.5M

CLME+ Project Objectives

- Identify, analyze and agree upon major issues, root causes and actions required to achieve sustainable management of the shared living marine resources
- 2. Improve the shared knowledge base
- 3. Implement legal, policy and institutional reforms
- 4. Develop an institutional and procedural approach to LME level monitoring, evaluation and reporting
- Facilitate EBM/EAF in the CLME+ area for the sustainable and climate resilient provision of goods and services for the shared living marine resources in the region

Process for EBM in the Caribbean

Because of the inherent normative foundation to EBM, the <u>interests, values and knowledge</u> of individuals or groups developing an EBM approach will determine:

- how the "problem" is defined, and
- subsequent strategies and actions on how it "ought" to be resolved.



Building the CLME+ Governance Framework - "Learning by doing"

Long-term goal

Fully-functional policy cycles at all appropriate levels with the appropriate vertical and lateral linkages.

Framework building interventions

- Interventions can be specifically targeted at:
 - 1. Establishing or completing policy cycles
 - 2. Building or enhancing linkages
- Approached incrementally by targeting deficient areas



Available online at www.sciencedirect.com



A large marine ecosystem governance framework

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A large marine ecosystem (LME) governance framework, developed from a need to effectively address the sustainable management of the shared living marine resources of the Caribbean, is proposed. The framework is based on four propositions and focuses on a linked examination of two well-known components of LME-level governance: the policy cycle process by which decisions are made and the multi-level nature of LMEs. It accommodates the diversity of policy cycles at multiple levels and the linkages among them required for effective governance of LMEs. The framework takes into account of factors such as context, purpose, jurisdictional scale, capacity and complexity and provides a means to identify critical areas for intervention. 0: 2007 Eleveire Ld. All rights reserved.

Keywords: Governance; Policy cycle; Multiple levels; Scale; Network; Linkages

Interventions and entry points



Framework Assessment



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CDEMA

(CrossMark

August 2010

Several subframeworks will be needed



Applying the framework to Caribbean MPA management



Science-Policy Interface in the Caribbean

Constraints for using science

Top knowledge demands

tion in policy



McConney et al. 2016

Addressing Need for a High Level Science-Policy Interface



What are appropriate governance arrangements for EBM implementation in the Caribbean?



The way ahead for EBM in the Caribbean

- No nice neat off-the-shelf solution exists for CLME
- We can learn from other regions but...

Given the emerging institutional complex within the region, a networked approach that makes best use of and improves upon existing arrangements appears to be the most feasible one

We believe it can work if we are prepared to -

- see the collective benefits of a regional approach
- make a long-term commitment
- to develop the network incrementally
- and to learn and adapt as we go

