



Valuation of marine ecosystem goods & services in the CLME+: *review & framework for future work*

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ROOT CAUSES OF ENVIRONMENTAL DEGRADATION IN THE CLME⁺

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

2. **Limited human and financial resources**

3. **Inadequate (access to) data and information** (inadequate knowledge)

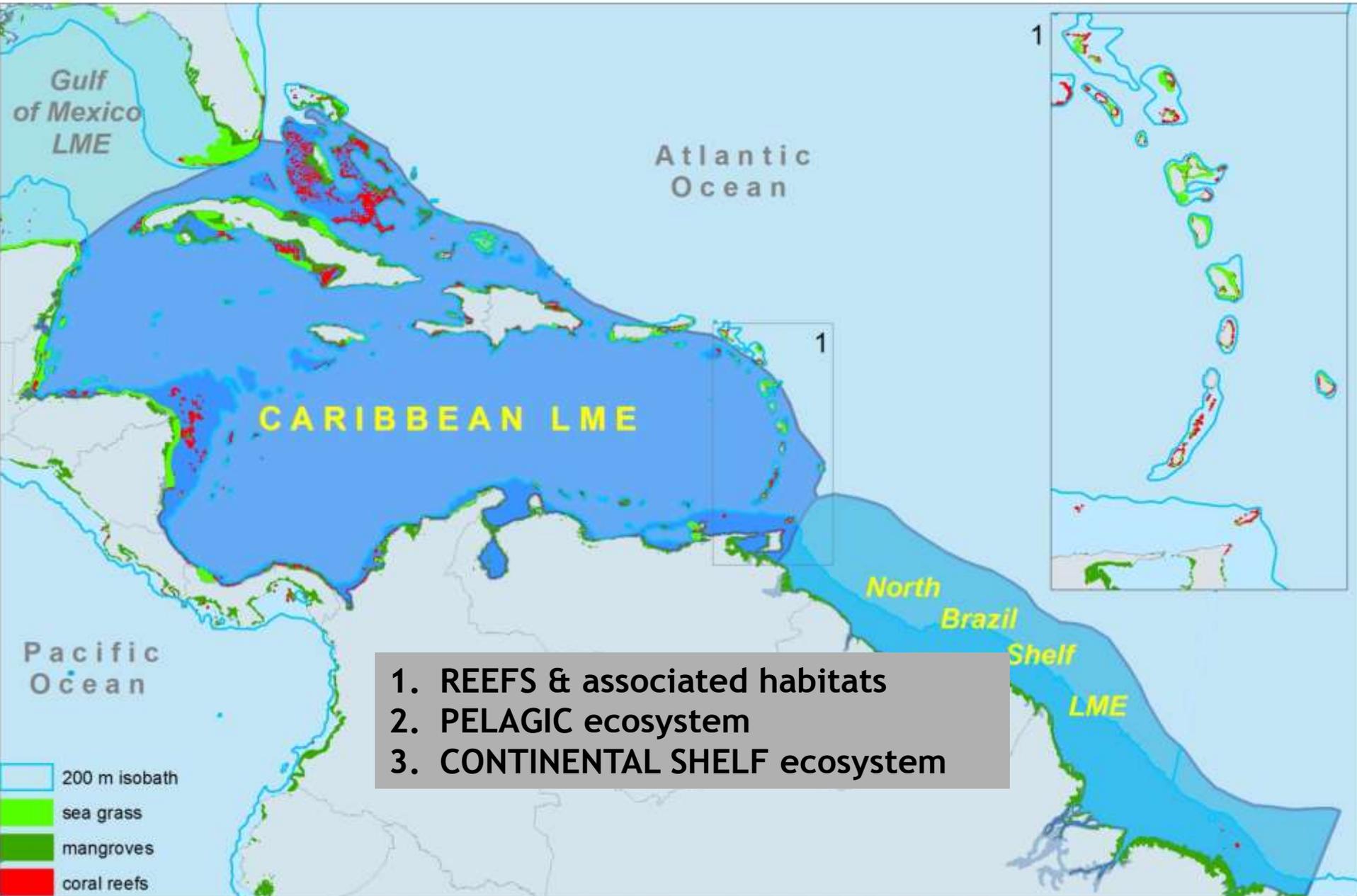
4. **Inadequate public awareness & participation**

5. **Inadequate consideration of value of ecosystem goods & services**

6. **Population and cultural pressures**

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

CLME⁺ : 3 distinct ecosystem types support the most important fisheries & biodiversity



The development of the CLME+ SAP

Review of ES G&S
valuation work in the
Caribbean
(CERMES & partners)

TRAI
DIAGNOSTIC
ASSESSMENTS

GOVERNANCE ANALYSIS

IMS-REMP
PROTOTYPE

CLME+
STRATEGIC
ACTION
PROGRAMME
(SAP)

BASIS FOR THIS PRESENTATION:

- ▶ Schumann, P. 2011. Wilmington, NC: University of North Carolina Wilmington (*CERMES report for CLME RGF case study*)
 - ✓ ***“The Valuation of Marine Ecosystem Goods and Services in the Caribbean”***
- ▶ Kushner, B., R. Waite, M. Jungwiwattanaporn, and L. Burke, 2012 (Working Paper. Washington DC: World Resource Institute)
 - ✓ ***“Influence of Coastal Economic Valuations in the Caribbean: Enabling Conditions and Lessons Learnt”***

Status of Marine Valuations in the CLME: **Coral Reef** Ecosystem

- ❑ Ecosystem with the most information
- ❑ Reefs in the Caribbean: 19,000 km²
- ❑ Net present value: US\$ 49.5 billion
- ❑ Total Annual Net Benefits: US\$ 1.85 billion
 - Fisheries: US\$ 391 million
 - Coastal Protection: US\$ 720 million
 - Tourism/recreation: US\$ 663 million
 - Biodiversity value: US\$ 79 million

Analysis of Economic Valuations Studies within the CLME

- Economic valuations studies have been limited to:
 - nearshore recreation opportunities (protected areas)
- **Reef valuations: far more attention than other ecosystem types**
 - reefs in **MPAs** received particular attention (recreation & tourism)
- **Caribbean small-scale fishers: highly dependent on reefs for livelihoods**
- **Pelagic & Continental Shelf ES: valuation work = modest compared to the near shore zones**
 - market values of capture fisheries, offshore recreational opportunities

Analysis of impacts of Economic Valuations Studies in the CLME+

- ✓ Valuation studies **increased awareness** about economic importance of marine ecosystems
- ✓ **Very few** valuation studies which have directly **influenced policy, legislation or investment**
 - *St. Maarten study helped establishing first national park*
 - *Belize's : legal ban on bottom trawling*
 - *Bonaire study > visitor fee setting: sustainably financed MPA*
- ✓ **Valuation to guide decision making: to be done on a scale appropriate to the policy question**
- ✓ WRI's Coastal Capital series: **most impact** on raising awareness of the economic values associated with coastal and marine resources

Summary

- ▶ Economic valuation information available on the Caribbean has increased over the last 30yrs
- ▶ **Over 200 economic studies** on monetary value of marine ecosystems exist (MESP)

Yet, the **impact** of these studies on policy or decision making regarding ecosystem/marine resources management are **limited/not very clear**

**Strong local partnership
& stakeholder
engagement**

**Good governance
& high transparency**

**KEY ELEMENTS
for
SUCCESSFUL
ECONOMIC
VALUATION
application and
influence**

**A clear policy
question**

**Opportunities for
revenue raising**

**Local demand for
valuation**

**Effective communications &
access to decision makers
and/or media**

**A clear presentation of methods,
assumptions & limitation**

GOVERNANCE EFFECTIVENESS ASSESSMENT FRAMEWORK (GEAF) ADOPTED BY CLME+

GOVERNANCE EFFECTIVENESS

Mandate:

- Geographic scope: ecosystem? Species range?
- Thematic scope: sectoral? Integrated?

Arrangements/
architecture in
place?

Mandates assigned
for each
component?

Governance
processes
operational?

Mandates
effectively
executed?

Linkages effective?

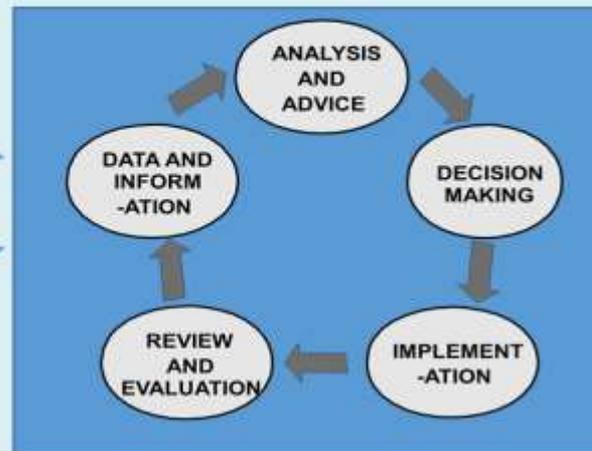
Stakeholders
appropriately
engaged?

Ecosystem
stressors
reduced?

Socially just
outcomes
achieved?

Ecosystems
improved/
protected?

Human
well-being
improved/
assured?



the Policy Cycle

CLME+ SAP: The Strategic Action Programme for the Sustainable Management of the Shared Living Marine Resources of the Caribbean and North Brazil Shelf LME

Vision for the Caribbean and North Brazil Shelf LMEs

A healthy marine environment in the CLME+ that provides benefits and livelihoods for the well-being of the people of the region

Healthy marine ecosystems that are **adequately valued** and protected through robust, integrative and inclusive governance arrangements at regional, sub-regional, national and local levels, which in turn effectively enable adaptive management that maximizes, in a sustainable manner, the provision of goods and services in support of enhanced livelihoods and human well-being



DETAILED VISION STATEMENT

STRATEGY 1 Enhance the regional governance arrangements for the protection of the marine environment		Time Frame		
		Short-Term (0-5 yrs)	Medium-Term (6-10 yrs)	
A	1.1(A)	Establish and operationalise a formal agreement for coordinated action with Brazil		
	1.2(A)	Establish and strengthen regional institutional coordination and cooperation arrangements		
	1.3(A)	Evaluate expansion and strengthening of the mandate of organizations to effectively address issues relating to habitat degradation and pollution in the marine environment	strengthen & evaluate*	expand*
	1.4(B)	Enhance the compliance and enforcement capacity of the regional, sub-regional and national governance arrangements		
	1.5(B)	Establish and/or enhance the capacity of the regional, sub-regional and national governance arrangements		

Enhance the capacity within and among arrangements to undertake and mainstream lessons learned and findings from monitoring, science and research in regional, sub-regional and national decision-making

Establish and/or enhance the capacity within and among arrangements to undertake and mainstream valuation of ecosystem goods and services in regional, sub-regional and national decision-making and policy development

	development (CLME and NBSLME)		
1.9(B)	Strengthen the capacity of the regional and sub-regional arrangements to support countries in becoming parties to relevant international and regional agreements and complying with their global and regional commitments towards the conservation of the marine environment (including the support to update and harmonize national legislation and regulations)		
1.10(B)	Establish and/or enhance the data and information quality and collection and management capacity of the regional, sub-regional and national governance arrangements for the protection of the marine environment, including through the establishment of public-private partnerships		
1.11(B)	Establish and/or enhance the capacity of the regional, sub-regional and national governance arrangements for the monitoring, assessment and reporting on the state of the marine environment.		

*as applicable

TYPOLGY OF THE ACTIONS:	(A) = GOVERNANCE/INSTITUTIONAL FRAMEWORKS	(B) = CAPACITY BUILDING	(C) = IMPLEMENTATION IN THE FIELD/INVESTMENTS
INTENSITY OF THE ACTIONS:	MAJOR INTENSITY	MINOR INTENSITY	WITHOUT FORESEEN ACTIVITIES

Way Forward

- ✓ Obtain **better understanding of key conditions for valuation influence on decision-makers**
- ✓ **Standardized approaches to monitor and evaluate the influence of valuations**
- ✓ Identify and **build the capacity of “in-country” champions** that understand and can communicate with policy makers on economic valuation
- ✓ **Coordinated approach** towards future work on valuation in the region **among countries and agencies (+repositories!)**
- ✓ Identify mechanisms to allow for an increased interest in valuations for the pelagic + continental shelf ecosystems

Agree among (C)LME(+) Partnership to adopt a single (or limited number of) repository(s) for valuation study results?

www.marineecosystemservices.org/explore

MESP MARINE ECOSYSTEM SERVICES PARTNERSHIP

Home About MESP **The MESP Mapper & Valuation Library** People & Oceans Help Contact Us Subscribe to Newsletter

Locate Ecosystem Services Valuations

Getting Started

When the map loads, all countries with valuation studies are highlighted in gold. Clicking on the coastal zones in the will select that country, and show ecosystem service studies in the grid below the map.

Click to expand the panels below and discover areas based on Ecosystem type or a specific Exclusive Economic Zone. The map will update to show the zones which fit this criteria. Use your **Ctrl** key to select multiple rows.

Selecting items from the grid at the bottom of the page places them on the map and offers more details, with a **more** link to see the complete record.

Exclusive Economic Zones +

Ecosystem Type +

Valuations listed below: **1046** Subset: all records Click on column headers to sort and group results. Reset and show all records below

Option to select by LME?

Agree among (C)LME(+) Partnership to adopt a single (or limited number of) repository(s) for valuation study results?

IPBES

catalog.ipbes.net/about



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About the Catalogue

Development of a "Catalogue of Assessments on Biodiversity and Ecosystem Services" was called for by the meeting which established the [Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services](#) (IPBES). The primary intention was to learn lessons from existing and ongoing assessment processes so as to inform the future development of IPBES, and a critical review of assessments to be delivered to the first IPBES Plenary will draw heavily on the catalogue.

In developing the "Catalogue of Assessments on Biodiversity and Ecosystem Services", the Interim Secretariat decided to develop and implement an online catalogue which would be developed and maintained with the direct involvement of assessment practitioners, and which would be widely accessible. In addition to providing information on the assessments and lessons learnt, the intention is that this online catalogue will also provide direct access to assessment reports, guidelines, and so on as a resource for practitioners, and in this regard the catalogue is being developed with the close involvement of the [Sub-Global Assessment Network](#).

Thank you

www.clmeproject.org

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