

**THE STRATEGIC ACTION PROGRAMME  
FOR THE SUSTAINABLE MANAGEMENT OF  
THE SHARED LIVING MARINE RESOURCES  
OF THE CARIBBEAN AND NORTH BRAZIL SHELF  
LARGE MARINE ECOSYSTEMS  
(CLME<sup>+</sup> SAP)**

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***Annex with Ministerial***

***Endorsements***

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## ACRONYMS AND ABBREVIATIONS

|                   |                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------|
| CARICOM           | Caribbean Community and Common Market                                                                    |
| CBO               | Community-Based Organisation                                                                             |
| CCAD*             | Central American Commission for Environment and Development                                              |
| CEP               | Caribbean Environment Programme (UNEP)                                                                   |
| CERMES            | Centre for Resource Management and Environmental Studies                                                 |
| CFMC              | Caribbean Fisheries Management Council                                                                   |
| CITES             | Convention on the International Trade of Endangered Species                                              |
| CLME              | Caribbean Large Marine Ecosystem                                                                         |
| CLME <sup>+</sup> | Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME Project)                                  |
| CRFM              | Caribbean Regional Fisheries Mechanism                                                                   |
| DSS               | Decision Support system                                                                                  |
| EAF               | Ecosystem Approach to Fisheries                                                                          |
| EBM               | Ecosystem-based Management                                                                               |
| EcoQO             | Ecosystem Quality Objective (CLME SAP)                                                                   |
| FAO- WECAFC       | Food and Agricultural Organisation of the United Nations - Western Central Atlantic Fisheries Commission |
| GDP               | Gross Domestic Product                                                                                   |
| GEF               | Global Environment Facility                                                                              |
| GPA               | Global Programme of Action for the Protection of the Marine Environment from Land Based Activities       |
| ICCAT             | International Commission for the Conservation of the Atlantic Tuna                                       |
| ICM               | Integrated Coastal Management                                                                            |
| IGO               | Inter-Governmental Organisation                                                                          |
| ILO               | International Labour Organisation                                                                        |
| IMO               | International Maritime Organisation                                                                      |
| IOC               | Intergovernmental Oceanographic Commission of UNESCO                                                     |
| IOCARIBE          | IOC UNESCO Sub-commission for the Caribbean Sea and Adjacent Regions                                     |
| IUU               | Illegal, Unreported and Unregulated fishing                                                              |
| IWEco             | Integrating Water, Land and Ecosystem Management in Caribbean Small Island Developing States (GEF)       |
| LBS               | Protocol concerning Pollution from Land-Based Sources and Activities (Cartagena Convention)              |
| LME               | Large Marine Ecosystem                                                                                   |
| LMR               | Living Marine Resources (CLME Project)                                                                   |
| M&E               | Monitoring and Evaluation                                                                                |

|          |                                                                        |
|----------|------------------------------------------------------------------------|
| MARPOL   | International Convention for the Prevention of Pollution from Ships    |
| MCS      | Monitoring, Control and Surveillance                                   |
| MPA      | Marine Protected Area                                                  |
| MSY      | Maximum Sustainable Yield                                              |
| NAP      | National Action Plan                                                   |
| NBSLME   | North Brazil Shelf Large Marine Ecosystem                              |
| NGO      | Non-Governmental Organisation                                          |
| NPOA     | National Plans of Action                                               |
| OECS     | Organisation of Eastern Caribbean States                               |
| OSP      | Oil Spills Protocol (Cartagena Convention)                             |
| OSPESCA* | Central America Fisheries and Aquaculture Organisation                 |
| REMP     | Regional Environmental/Ecosystem Monitoring Programme (CLME Project)   |
| RFMO     | Regional Fisheries Management Organisation                             |
| RGF      | Regional Governance Framework (CLME Project)                           |
| SAP      | Strategic Action Programme (CLME Project)                              |
| SBO      | Societal Benefits Objective (CLME SAP)                                 |
| SD       | Strategic Direction (CLME SAP)                                         |
| SGP      | Small Grants Programme (GEF)                                           |
| SIDS     | Small Island Developing States                                         |
| sLMR     | shared Living Marine Resources (CLME Project)                          |
| SPAW     | Specially Protected Areas and Wildlife Protocol (Cartagena Convention) |
| TDA      | Transboundary Diagnostic Analysis (CLME Project)                       |
| UN       | United Nations                                                         |
| UNCLOS   | United Nations Convention on the Law of the Sea                        |
| UNDP     | United Nations Development Programme                                   |
| UNEP     | United Nations Environment Programme                                   |
| UNESCO   | United Nations Educational, Scientific and Cultural Organisation       |
| UNOPS    | United Nations Office for Project Services                             |
| UWI      | University of the West Indies                                          |
| WCR      | Wider Caribbean Region                                                 |
| WRI      | World Resource Institute                                               |

\* Spanish acronym

## FOREWORD

With the support of the *Global Environment Facility (GEF)* and the GEF Implementing, Cooperating and Executing Agencies

*the United Nations Development Programme (UNDP)*

*the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organisation (IOC of UNESCO)*

*and the United Nations Office for Project Services (UNOPS)*

the Countries and Regional Organisations and other stakeholders participating in the CLME Project<sup>1</sup> have committed to jointly elaborate and implement a **Strategic Action Programme (SAP) for the “Sustainable Management of the shared Living Marine Resources of the Caribbean Large Marine Ecosystem and Adjacent Regions”**, further referred to in this document as the **“CLME+ SAP”**.

The CLME+ SAP builds on the Transboundary Diagnostic Analyses (TDAs) conducted under the CLME Project as well as on the additional knowledge, insights and experiences acquired through a series of CLME Case Studies and Pilot Projects executed by the following regional and global partner organizations, in collaboration with the CLME+ countries and stakeholders:

- The Caribbean Regional Fisheries Mechanism (CRFM)
- The Centre for Resource Management and Environmental Studies of the University of the West Indies (CERMES/UWI)
- The Food and Agriculture Organisation of the United Nations and its Western Central Atlantic Fisheries Commission (FAO - WECAFC)
- The UNESCO IOC Subcommission for the Caribbean and Adjacent Regions (IOCARIBE)
- The Organisation of the Fisheries and Aquaculture Sector of the Central-American Isthmus (OSPESCA)
- The Caribbean Environment Programme of the United Nations Environment Programme (UNEP CEP)

***The CLME+ Strategic Action Programme does not impose, nor is it intended to impose, any legal commitments on the part of the participating countries and organisations.***

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<sup>1</sup> CLME Project, GEF ID 1032/ UNDP PIMS ID 2193 (2009-2013) – <http://www.clmeproject.org>



## ENDORSEMENTS OF THE STRATEGIC ACTION PROGRAMME (SAP)<sup>2</sup>

| COUNTRY            | MINISTRY                                                                    | MINISTER'S NAME                      | DATE SIGNED |
|--------------------|-----------------------------------------------------------------------------|--------------------------------------|-------------|
| Antigua & Barbuda  | Ministry of Agriculture, Lands, Fisheries and Barbuda Affairs               | Hon. Arthur Nibbs                    | 21/09/16    |
| Bahamas            | Ministry of The Environment & Housing                                       | Hon. Kenred Dorsett                  | 18/05/16    |
| Barbados           | Ministry of Environment and Drainage                                        | Hon. Dr. Denis Lowe                  | 28/05/13    |
| Belize             | Ministry of Forestry, Fisheries and Sustainable Development                 | Hon. Lisel Alamilla                  | 24/05/13    |
| Brazil             | Ministry of Fisheries and Aquaculture of Brazil                             | Hon. Marcelo Crivella                | 26/04/13    |
| Colombia           | Ministry of Environment                                                     | Hon. Juan Gabriel Uribe              | 17/05/13    |
| Colombia           | Ministry of Agriculture and Rural Development                               | Hon. Francisco Estupinan Heredia     | 11/06/13    |
| Colombia           | Ministry of Foreign Affairs                                                 | Hon. María Ángela Holguín Cuéllar    | 29/07/13    |
| Colombia           | National Aquaculture and Fisheries Authority                                | Dr. Julián Botero Arango (Director)  | 04/06/13    |
| Costa Rica         | Ministry of Agriculture and Livestock                                       | Hon. Gloria Abraham Peralta          | 06/05/13    |
| Costa Rica         | Ministry of Environment, Energy and Telecommunications                      | Hon. Dr. Rene Castro Salazar         | 15/05/13    |
| Dominica           | Ministry of Environment, Natural Resources, Physical Planning and Fisheries | Hon. Kenneth Darroux                 | 09/05/13    |
| Dominican Republic | Ministry of Environment and Natural Resources                               | Hon. Dr. Bautista Roja Gomez         | 30/04/13    |
| Dominican Republic | Dominican Council of Fisheries and Aquaculture                              | Dr. Francisco Manuel Frias Olivencia | 16/05/13    |
| Grenada            | Ministry of Agriculture, Lands, Forestry, Fisheries and the Environment     | Hon. Roland Bhola                    | 28/05/13    |
| Guatemala          | Ministry of Agriculture, Livestock and Food                                 | Hon. Elmer Alberto Lopez Rodriguez   | 30/04/13    |
| Guyana             | Ministry of Agriculture                                                     | Hon. Dr. Leslie Ramasammy            | 07/05/13    |
| Haiti              | Ministry of Environment                                                     | Hon. Dr. Jean Francois Thomas        | 24/06/13    |
| Honduras           | Secretary of State in the Offices of Agriculture and Livestock              | Hon. Jacobo Regalado W.              | 22/05/13    |

<sup>2</sup> status on 4 September 2013

|                              |                                                                                    |                                 |          |
|------------------------------|------------------------------------------------------------------------------------|---------------------------------|----------|
| Honduras                     | Secretary of State in the Offices of Natural Resources and Environment             | Hon. Dr. Rigoberto Cuellar Cruz | 27/05/13 |
| Jamaica                      | Ministry of Agriculture and Fisheries                                              | Hon. Roger Clarke               | 27/05/13 |
| Jamaica                      | Ministry of Water, Land, Environment and Climate Change                            | Hon. Robert D. Pickersgill      | 30/05/13 |
| Mexico                       | Ministry of Environment and National Resources                                     | MSc. Rodolfo Lacy Tamayo (VM)   | 02/09/13 |
| Montserrat                   | Ministry of Agriculture, Trade, Lands, Housing and the Environment                 | Hon. Claude E S Hogan Esq.      | 23/05/16 |
| Nicaragua                    | Nicaraguan Institute of Fisheries and Aquaculture                                  | Hon. Steadman Fagoth Muller     | 22/05/13 |
| Panama                       | Ministry of Agricultural Development                                               | Hon. Oscar. A. Osorio C.        | 15/05/13 |
| Panama                       | National Environmental Authority                                                   | Hon. Silvano Vergara            | 22/07/13 |
| St. Kitts & Nevis            | Ministry of Agriculture, Marine Resources and Cooperatives                         | Hon. Nigel Carty                | 03/05/13 |
| Saint Lucia                  | Ministry of Agriculture, Food Production, Fisheries and Rural Development          | Hon. Moses Jn. Baptiste         | 29/05/13 |
| St. Vincent & the Grenadines | Ministry of Agriculture, Rural Transformation, Forestry and Fisheries              | Hon. Saboto Caesar              | 07/07/13 |
| Suriname                     | Ministry of Technological Development and Environment                              | Hon. Michael Miskin             | 29/05/13 |
| Suriname                     | Ministry of Agriculture, Animal Husbandry and Fisheries                            | Hon. Hendrik S. Setrowidjojo    | 12/08/13 |
| Trinidad and Tobago          | Ministry of the Environment and Water Resources                                    | Hon. Ganga Singh                | 07/02/14 |
| United States of America     | National Marine Fisheries Service, National Oceanic and Atmospheric Administration | Dr. Samuel D. Roach             | 29/05/13 |

| ORGANISATION                                  | ORGANISATIONS' ENDORSING BODY | DATE SIGNED |
|-----------------------------------------------|-------------------------------|-------------|
| Caribbean Regional Fisheries Mechanism (CRFM) | Council of Ministers          | 31/05/13    |

## CONCEPTS & AGREEMENTS RELEVANT TO THE CLME<sup>+</sup> SAP

- Globally, “**Large Marine Ecosystems**” or “**LMEs**” produce over 85% of the annual marine fisheries catch. LMEs are relatively large areas of coastal waters and ocean space adjacent to the continents or surrounding islands. Their boundaries are based on ecological criteria and processes; as such, they constitute a recommended geographic base unit for implementing the ecosystem approach to natural (marine) resources management. Within these larger LME’s, further differentiation can still be made between different ecosystem types.
- The “**Caribbean Sea LME**” (CLME; 3.3 million km<sup>2</sup>) is bounded to the south and west by the North Brazil Shelf LME and the coasts of northern South America and Central America, to the north by the southeastern limits of the Gulf of Mexico LME and of the United States of America, and to the east by the Antilles chain of islands. The Caribbean Sea is an ecosystem with overall moderate productivity rates that show considerable variability over space and time. The Sea supports a broad array of commercial and subsistence fisheries and constitutes a sub-area of a distinct and globally important biogeographical area of coral reef development with high levels of endemism.
- The “**North Brazil Shelf LME**” (NBSLME; 1.1 million km<sup>2</sup>) extends from its southernmost limit near the Paraíba River estuary in Brazil, along the wide continental shelf off the Atlantic Coast of South America up to its northern boundary with the Caribbean Sea. High volumes of water and nutrients from terrestrial river basins in South America - including the Amazon and Orinoco basins- are transported by the North Brazil Current through this LME into the Caribbean Sea. The highly productive North Brazil Shelf supports important fisheries, and has moderate levels of biodiversity characterized by an important degree of endemism.
- “**CLME<sup>+</sup>**” is the acronym used in this Strategic Action Programme (SAP) to refer to the area covered by the CLME Project. It corresponds to the combined areas of the Caribbean and North Brazil Shelf LMEs, hence the use of the superscript “+”. However, unlike the Cartagena Convention, it does not include the area of the Gulf of Mexico LME.
- The “**ecosystem approach**” has been defined as “*Ecosystem and natural habitats management (...) to meet human requirements to use natural resources, whilst maintaining the biological richness and ecological processes necessary to sustain the composition, structure and function of the habitats or ecosystems concerned.*” It is also defined as “*a strategy for the integrated management of land, water, and living resources that promotes conservation and sustainable use in an equitable way*”. It recognizes that “*the ecosystem is a functional unit at any spatial scale*” and that “*humans with their varied cultural and social needs are an integral part of many ecosystems*”.
- “**Societal benefits**”: the marine ecosystems in the region provide a wide variety of goods and services to human society. These include the provision of protein and income through fisheries and tourism. Ecosystem types such as corals, mangroves and sea grass beds act as coastal defense and/or as sinks for the carbon emitted into the atmosphere by human activities.
- Interactive “**Governance**” emphasizes solving societal problems and creating societal opportunities through interactions among civil, public and private actors. The institutional, legal, economic and other practical arrangements made to enable and control this process are referred to in this document as “**governance arrangements**”.
- “**Mainstreaming adaptation**” to climate variability and change can be described as the integration of climate concerns and adaptation responses into relevant policies, plans, programmes and projects, and is an important consideration throughout the CLME<sup>+</sup> SAP.
- “**Caribbean Sea Initiative**”: the UN Resolution “*Towards the sustainable development of the Caribbean Sea for present and future generations*” recognizes the Caribbean Sea as an area of unique biodiversity and a highly fragile ecosystem that requires relevant regional and international development partners to work together to develop and implement regional initiatives to promote the sustainable conservation and management of coastal and marine resources.
- “**Cartagena Convention**”: the *Convention for the Protection and Development of the Marine Environment in the Wider Caribbean Region (WCR)* is a comprehensive agreement that provides a legal framework for cooperative regional and national actions. It is supplemented by 3 Protocols (oil spills, specially protected areas and wildlife, and land-based sources of pollution).
- The “**wider Caribbean Region**” is the region to which the Cartagena Convention applies. It corresponds to the marine environment of the Gulf of Mexico, the Caribbean Sea and the areas of the Atlantic Ocean adjacent thereto, south of 30 deg north latitude and within 200 nautical miles of the Atlantic coasts of the States referred to in article 25 of the Convention.
- The “**United Nations Convention on the Law of the Sea**” (UNCLOS), is the international agreement that resulted from the third UN Conference on the Law of the Sea (UNCLOS III; 1973-1982). It defines the rights and responsibilities of nations in their use of the world's oceans, establishing guidelines for businesses, the environment, and the management of marine natural resources. In the context of the CLME<sup>+</sup> SAP, it provides an important reference framework especially for the participating countries that have ratified the Convention.



**Figure 1 Geographic area covered by the CLME Project: the Caribbean and North Brazil Shelf Large Marine Ecosystems (LMEs)<sup>3</sup>**

<sup>3</sup> This map primarily reflects the approximate boundaries of the Caribbean and North Brazil Shelf Large Marine Ecosystems (LMEs), as defined by the LME Programme. This map is intended to be informative only and is not suitable for legal or surveying purposes.

## EXECUTIVE SUMMARY

*The CLME Project: “Sustainable Management of the Shared Living Marine Resources of the Caribbean Large Marine Ecosystem and Adjacent Regions” covers two of the world’s 64 Large Marine Ecosystems or LMEs: the Caribbean LME (CLME) and the North Brazil Shelf LME (NBSLME). Jointly referred to as the CLME<sup>+</sup>, this vast marine environment is characterized by globally significant levels of biodiversity, and provides critical goods and services that support enhanced livelihoods, human well-being and sustained socio-economic development in this region and well beyond.*

*The CLME<sup>+</sup>’s marine ecosystems and associated living marine resources are particularly important for fishing and tourism, 2 key drivers of the region’s economies. Within the CLME<sup>+</sup>, three distinct ecosystem types are recognized to support the most important fisheries and biodiversity. These are: the reefs and associated systems, the pelagic ecosystem, and the continental shelf ecosystem.*

*Unsustainable fisheries, habitat degradation and pollution have been identified as the three most important problems impacting the societal benefits obtained from these ecosystems. These impacts may become exacerbated due to climate change.*

*Most fisheries are fully or over-exploited, and illegal, unreported and unregulated (IUU) fishing still remains an important issue in the region. Habitat degradation and pollution severely impact the region’s tourism potential and the sustainability of its’ fisheries, and increase the region’s vulnerability to climate variability and change. Habitat degradation and pollution affect all ecosystem types but are especially evident in the coastal zone.*

*Diagnostic Analyses (called “TDAs”) conducted under the CLME project found the main root causes of the 3 key problems to be: weak governance; limited human and financial resources; inadequate knowledge; inadequate public awareness and participation; inadequate consideration of the value of ecosystem goods and services; population and cultural pressures; and trade and external dependency.*

*The CLME<sup>+</sup> constitutes one of the most geopolitically diverse and complex sets of LMEs in the world: being shared by 26 independent States and more than 10 dependent territories, the geopolitical fragmentation of the CLME<sup>+</sup> is indicative of the highly transboundary nature of both the marine resources as well as of the problems affecting these resources. At the same time, the level of fragmentation is indicative of the crucial importance of enhancing the cooperation among CLME<sup>+</sup> countries and stakeholders in the identification and implementation of solutions for the aforementioned problems and their root causes. In order to ensure sustainable societal benefits, both at the regional, national and local levels, it is therefore imperative that the region continues to progress towards the step-wise implementation of an integrative regional framework for shared living marine resources governance and management, based on the ecosystem approach.*

*Under the CLME Project, a Strategic Action Programme (SAP) was developed which provides a comprehensive roadmap towards sustainable living marine resources management through strengthened and consolidated regional cooperation. The SAP combines actions for structural change with capacity building at the regional, national and local levels, and high-priority management interventions and investments on the ground. It puts substantial focus on the strengthening of existing organizations and arrangements for the management of living marine resources, and on the coordination among the organizations and arrangements. Remaining gaps in these arrangements will be gradually addressed, and the principle of subsidiary management -- in which responsibility lies at the scale closest to the issue to be managed -- will be optimally applied.*

*Widespread consultation with regional and national-level stakeholders took place throughout the SAP development process, and due consideration was given to the outcomes of the TDAs.*

*Through the CLME+ SAP, the States and Territories in the region are adopting a long-term vision of a healthy marine environment that provides benefits and livelihoods for the well-being of the people of the region in a sustainable way. The SAP aims to contribute to preserving or restoring the health of reef, continental shelf and pelagic ecosystems as to provide goods and services in a way which optimizes the ecosystems' contributions to societal well-being and the region's development needs.*

*CLME+ countries and partners commit in this context to the implementation of a comprehensive package of coordinated "Strategies" and "Actions", with initial focus on shared living marine resources governance and management. Six Strategies have been defined under the SAP, and short-term (0-5 years) and medium-term actions (6-10 years) have been proposed under each Strategy.*

*The first three Strategies focus on the strengthening of --regional-level-- governance and policy mechanisms: Strategy 1 focuses on the protection of the marine environment, whereas Strategy 2 focuses on achieving sustainable fisheries. Strategy 3 aims at achieving broader coordination and integration of ocean policies, as a means to enable and enhance the implementation of an ecosystem approach.*

*Strategies 4 to 6 focus on the implementation of the ecosystem approach to the management of the CLME's three ecosystem types and their associated living marine resources: the reefs and associated ecosystems (Strategy 4), the pelagic ecosystem (Strategy 5), and the Guianas-Brazil continental shelf ecosystem (Strategy 6), respectively.*

*Under Strategy 4 and 5, a total of 4 additional Sub-Strategies were defined, to implement the ecosystem approach to the following four key CLME+ fisheries: Caribbean spiny lobster (Sub-strategy 4A), queen conch (Sub-strategy 4B), fourwing flyingfish (Sub-strategy 5A) and large pelagics (Sub-strategy 5B).*

*Actions defined under the different Strategies will allow for strengthened coordination and cooperation among countries and sub-regions, and among thematic sub-areas, this as to facilitate implementation of the ecosystem approach. Actions towards the strengthening and coordination of legal and institutional frameworks will be combined with capacity building, especially in the fields of data and knowledge creation, management and sharing, and the use of findings from science in practical decision-making and resources management. Direct management actions in the field will include investments into initiatives such as combating IUU fishing and in providing viable alternative sources of decent work. Due attention will be given in the implementation of all actions to increasing the resilience of the CLME's ecosystems and its people to climate variability and change.*

*CLME+ countries will be supported in the execution of the actions of the SAP by the relevant regional and sub-regional organizations already active in the region (e.g. UNEP CEP, FAO-WECAFC, CRFM, OSPESCA and OECS, among others).*

*The CLME SAP has been developed as an "umbrella" Programme, meant to enhance cooperation among the region's many stakeholders, and to establish enabling conditions for creating synergies between the many different ongoing and planned projects and initiatives. Once endorsed by the countries of the region, the SAP will guide the development and integration of initiatives at all levels. Existing or planned efforts will be complemented by new efforts requiring co-financing from public and private sector partners. The SAP will be able to guide investments to where they are needed most, and facilitate the integrating of multiple donor efforts.*

*Specific Activities, Actions and/or Strategies of this regional action programme will be further translated into compatible national-level actions. The regional SAP will provide a broad reference framework for this*

*process. Regional and sub-regional organizations involved in SAP implementation will assist their member countries incorporate SAP actions into relevant National Action Plans.*

*A sound Monitoring and Evaluation (M&E) Plan will be developed, to track the progress towards achieving the SAP objectives, and in order to facilitate adaptive management. M&E will consist of two elements: frequent monitoring of progress in the implementation of SAP Actions (“process indicators”); and periodic evaluation of performance in terms of achieved outputs and outcomes (stress reduction, ecosystem status and socio-economic benefits), and cost-effectiveness.*

*Underpinned by the Resolution of the General Assembly of the United Nations: “Towards the sustainable development of the Caribbean Sea for present and future generations” (“Caribbean Sea Initiative”), a call is being made for international and region-wide support for the implementation of the CLME+ SAP.*



# 1. INTRODUCTION

## 1.1. THE GLOBAL AND REGIONAL SIGNIFICANCE OF THE MARINE ENVIRONMENT OF THE CARIBBEAN AND NORTH BRAZIL SHELF LARGE MARINE ECOSYSTEMS (CLME<sup>+</sup>)

### The natural environment of the CLME<sup>+</sup> and its significance for society

The CLME Project or “*Sustainable Management of the shared Living Marine Resources of the Caribbean Large Marine Ecosystem and Adjacent Regions*” covers two of the World’s 64 Large Marine Ecosystems or LMEs: the Caribbean LME (CLME) and the North Brazil Shelf LME (NBSLME).

Together, the CLME and NBSLME – *jointly referred to in this document as CLME<sup>+</sup>* - cover a total marine area of approximately 4.4 million km<sup>2</sup>. This vast extent of marine ecosystems provides substantial support to food security, livelihoods and socio-economic development in this region of the world and far beyond, and is key to many regionally and globally important ecological processes. The CLME<sup>+</sup> and in particular the area of the Caribbean Sea is characterized by exceptionally high and globally significant levels of biodiversity<sup>4</sup>.

Fisheries and tourism are two important drivers of the region’s economies and are heavily dependent on the CLME<sup>+</sup>’s ecosystems and their associated living marine resources.

Fisheries are a significant provider of food, livelihoods and income in the area. It is estimated that more than 900,000 people in the CLME<sup>+</sup> are employed directly in the primary sector (capture fishery), with another three million jobs in ancillary activities such as processors, net makers, and boat builders. Within the wider setting of the Western Central Atlantic, in 2010 the CLME<sup>+</sup> countries and territories caught an estimated 1.25 million tonnes of fish (FAO Area “31”). The fisheries sector brings approximately US\$ 1.2 billion annually in export earnings into the Caribbean, with the United States of America being the principal destination of the exports. Even so, the true regional importance of fishing is not fully reflected in the above figures: in many of the region’s countries, a very large share of the population has access to the sea. The role of the fisheries sector in terms of providing healthy food to the Caribbean population can therefore hardly be overestimated. The annual per capita fish consumption in the CLME, although showing large differences between the countries, is substantially higher than the world’s current average of 18.8 kg/capita per year.

Notwithstanding the foregoing, many fishers in this region have difficulties in meeting their basic needs and continue to be highly vulnerable to poverty<sup>5</sup>.

Relative to its size, the island population of the Caribbean is more dependent on income from tourism than that of any other part of the world: in 2004, more than 2.4 million people were employed either directly or indirectly in travel and tourism, with the sector contributing US\$ 28.4 billion to the Gross Domestic Product (GDP), and US\$ 19 billion of exported services and merchandise. Twenty-five million tourists choose to holiday in the Caribbean each year, largely attracted by the region’s climate and richness in natural features, in particular those related to its marine environment. Dependence on tourism therefore also implies dependence on the capacity of the marine ecosystems to continue providing the services, goods and conditions which make the region such a popular vacation destination.

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<sup>4</sup> Around 12,000 marine species have been reported for the Caribbean.

<sup>5</sup> CRFM, 2012, CRFM Technical & Advisory Document – Number 2012/3 Volume II - Diagnostic Study to Determine Poverty Levels in CARICOM Fishing Communities- Policy Document <http://www.caricom-fisheries.com/LinkClick.aspx?fileticket=nDDZd61OKsQ%3D&tabid=87>

Besides the importance of the marine ecosystems for fisheries, biodiversity and tourism, the CLME<sup>+</sup> is also of particular importance for shipping, and holds significant potential as a major producer of hydrocarbons (oil and gas). The Panama Canal, a critical hub for maritime traffic, handles about 5% of total world trade. It is expected to double its present transit volume by 2014, once the expansion of the Canal, to support larger vessels, has been completed. Further, the Caribbean is also the world's premier cruise tourism destination, commanding over 60% of the world cruise market. Venezuela is one of the largest oil producers in the western hemisphere, ranking as the world's sixth largest net oil exporter in 2006. With the advancement of technology, sea-bed exploration has grown exponentially in this region over the last few years, and the number of countries now producing oil and gas for export has increased.

## Environmental change and its implications

The marine environment in the CLME<sup>+</sup> constitutes a fundamental and integral part of the economic, recreational, cultural and spiritual reality of the region and its peoples. However, the marine environment's capacity to provide critical goods and services that support the region's livelihoods, sustained socio-economic development and well-being, has become increasingly impacted by a multitude of both marine and land-based activities, climate change and sea-level rise.

The vulnerability of societal sectors that depend on the sea is exacerbated by such environmental change. Anything which damages the productivity of the marine food chain and overall health of the region's marine ecosystems is therefore a significant threat both to the health and overall wellbeing of these societies as a whole.

The health and productivity of e.g. coral reef ecosystems, and the patterns of fertility, migration and survival of living marine resources in general, are highly correlated with sea surface temperatures, fresh water and nutrient or contaminant influxes from river basins<sup>6</sup>, and the occurrence of intense weather such as tropical storms.

Changes in climate and other important environmental changes pose a major threat to food security throughout the Caribbean: such changes not only directly threaten the production of food from land and sea for local consumption, but also threaten the revenue generation (e.g. through the impacts of coral reef degradation on both fisheries and tourism) needed to import food products that cannot be produced by the region itself.

## A particular geopolitical context

The CLME<sup>+</sup> is one of the most geopolitically diverse and complex sets of LMEs in the world. Twenty-six independent States and more than ten dependent territories border or are located within the marine area covered by the Caribbean and North Brazil Shelf LMEs (Table 1). These culturally diverse countries and territories range from among the largest (e.g. Brazil, United States of America) to among the smallest (e.g. Barbados, St. Kitts and Nevis), and from the most developed to the least developed in the world.

Both the marine resources as well as the problems affecting these resources are shared to a very large extent by the many territories that make up this region. At the same time, highly variable progress exists across the region with regard to ocean and living marine resources governance, and capacities for shared living marine resources management vary considerably at national, sub-regional and regional levels.

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<sup>6</sup> e.g. run-off after heavy rains and discharge from rivers like the Orinoco, Amazon and Magdalena in South America, and other major river systems in Central America and the Caribbean islands

**Table 1 CLME<sup>+</sup> countries and territories**

| <b>Independent Continental States</b>                                                                                                                                                                      | <b>Independent Island States</b>                                                                                                                                                                                                                                                                                                                                                    | <b>Overseas dependent territories, associated states, departments and island with a special status<sup>7</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Belize <sup>8</sup><br>Brazil<br>Colombia<br>Costa Rica<br>Guatemala<br>Guyana <sup>7</sup><br>Honduras<br>Panama<br>Mexico<br>Nicaragua<br>Suriname <sup>7</sup><br>Venezuela<br>United States of America | Antigua & Barbuda <sup>7</sup><br>Bahamas <sup>7</sup><br>Barbados <sup>7</sup><br>Cuba <sup>7</sup><br>Dominica <sup>7</sup><br>Dominican Republic <sup>7</sup><br>Grenada <sup>7</sup><br>Haiti <sup>7</sup><br>Jamaica <sup>7</sup><br>St. Kitts & Nevis <sup>7</sup><br>Saint Lucia <sup>7</sup><br>St. Vincent & the Grenadines <sup>7</sup><br>Trinidad & Tobago <sup>7</sup> | Anguilla (United Kingdom) <sup>7</sup><br>Aruba, Curaçao, St. Maarten <sup>7,9</sup><br>British Virgin Islands (United Kingdom) <sup>7</sup><br>Cayman Islands (United Kingdom) <sup>7</sup><br>French Guiana (France)<br>Guadeloupe (France) <sup>7</sup><br>Montserrat (United Kingdom) <sup>7</sup><br>Martinique (France) <sup>7</sup><br>Puerto Rico (United States of America) <sup>7</sup><br>Bonaire, St. Eustatius, Saba <sup>7,10</sup><br>St. Barthélemy (France) <sup>7</sup><br>St. Martin (France) <sup>7</sup><br>Turks and Caicos (United Kingdom) <sup>7</sup><br>U.S. Virgin Islands (United States of America) <sup>7</sup> |

<sup>7</sup> As of 10 October 2010, Holland, Aruba, Curaçao and St. Maarten are partners in the Kingdom of the Netherlands. The islands of Bonaire, Saba, and St. Eustatius have become "special municipalities" of Holland.

<sup>8</sup> Low-lying coastal and/or Small Island Developing States (SIDS)

<sup>9</sup> Kingdom of the Netherlands

<sup>10</sup> special municipalities of Holland

## 1.2. THREE KEY ECOSYSTEM TYPES

Three main types of marine ecosystems in the CLME<sup>+</sup> are known to support the region's most important fisheries and biodiversity. With the Project's focus on "*shared living marine resources*", and with the adoption of the "*ecosystem approach*" as one of its' guiding principles, together with the LME concept these three ecosystem types have provided an important reference frame for the project's activities.

The three "fishery" ecosystem types are:

### Reefs and associated ecosystems

Caribbean reefs constitute 12% of the total reef area in the world (Figure 2). Besides their contributions to coastal protection, their role as a carbon sink, their biodiversity and associated amenity value for tourism, coral reefs and associated ecosystems in the CLME<sup>+</sup> are of great relevance for fisheries.<sup>11</sup> Among the many species being fished, Caribbean spiny lobster and queen conch produce the highest revenue. Reef slopes further support important fisheries for species such as grouper and snapper. Associated systems such as mangrove forests and sea grass beds provide important nursery grounds. Combined with the multiple uses, functions and benefits derived from this ecosystem type, the high levels of ecological interaction between the associated systems call for an integrated, ecosystem-based management approach. Presence of coral reefs is limited in the North Brazil Shelf LME; however this LME has important mangrove resources.

### The pelagic ecosystem

A wide array of species - from small coastal pelagic fishes to large coastal and oceanic species including tunas, sharks, turtles and marine mammals - spend their full life cycle or part thereof in the pelagic ecosystem. Through fisheries and tourism, this ecosystem type and its associated living resources represent a substantial and very valuable source of food, employment, income, recreation and foreign exchange in many of the CLME<sup>+</sup> countries. With the overfishing and decline of reef and inshore fisheries, the pelagic resources have become one of the focuses of fisheries enhancement and expansion programmes in the region. Commercially targeted species include flyingfish, yellowfin and skipjack tuna, billfishes and dolphinfish. Recreational fisheries (game fishing) have also increased in importance in the region and are of significant economic value. Important interactions occur among species in this ecosystem and between the three ecosystem types, making the application of an ecosystem approach to fisheries essential for achieving sustainability. The pelagic ecosystem in the CLME<sup>+</sup> further also supports important shipping services and contributes to global climate regulation.

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<sup>11</sup> Analyses carried out by the Reefs at Risk Project indicate that Caribbean coral reefs provide goods and services with an annual net economic value in 2000 estimated at between US\$3.1 billion and US\$4.6 billion from fisheries, dive tourism, and shoreline protection services.

## The continental shelf ecosystem

Within the CLME<sup>+</sup> region, the continental shelf<sup>12</sup> is particularly pronounced in the Guianas–Brazil sub-region (NBSLME) (Figure 2) where it supports major shrimp and groundfish fisheries, including species of major commercial value such as red snapper and seabob shrimp. Other countries within the wider CLME<sup>+</sup> region with important shrimp and groundfish fisheries include: Panama, Nicaragua, Belize and Jamaica. The many activities that take place on or adjacent to the continental shelf, together with the existence of important ecological linkages between species (both target and non-target species) and between the different ecosystem and habitat types<sup>13</sup> associated with or connected to the continental shelf demand that an ecosystem approach towards management is applied. The transboundary nature of the continental shelf ecosystem is much more pronounced in the area of the NBSLME (Guianas-Brazil sub-region) than it is in the CLME.



**Figure 2** Approximate distributions of the 3 key ecosystem types in the CLME<sup>+</sup> <sup>14</sup>

<sup>12</sup> As an ecosystem the continental shelf extends from the coast down to the “shelf break”, i.e. a point where seabed slope increases rapidly, and which is typically located at a remarkably uniform depth of roughly 140 m.

<sup>13</sup> Strong linkages exist with both the pelagic and reef ecosystem types, in the latter case e.g. through the (local) presence of coastal wetlands, mangroves and coral reefs within the area of the continental shelf.

<sup>14</sup> All features represented in the map are indicative only. The 200 m isobath is used as a rough indication of the possible extension of the “continental shelf” ecosystem. This map is intended to be informative only and is not suitable for legal or surveying purposes.

### 1.3. THREE CROSS-CUTTING KEY TRANSBOUNDARY PROBLEMS

Three cross-cutting and inter-linked priority transboundary issues have been identified as causing severe negative impacts on the volume and quality of regional and global societal benefits obtained from the CLME<sup>+</sup> and its 3 key fishery ecosystem types. These issues are:

#### Unsustainable fisheries

*The total fishery catch for 2010 of 1,25 million tonnes (see Section 1.1) is substantially lower than the ±1.79 million tonnes caught annually in the late 1990s and during the first years of the new millennium.<sup>15</sup>*

Most of the fisheries across the three ecosystem types in the CLME<sup>+</sup> are recognized to be fully or over-exploited. The problem of the unsustainability of fisheries and fishery practices in the region originates from a multitude of causes including the over-harvesting of target stocks and the direct and indirect impacts of activities on species, size groups or life stages that are not directly targeted by the fishery (e.g. “bycatch”, use of destructive or “harmful” practices or gear that leads to habitat degradation or destruction, etc.).

The specific nature and direct causes of the problem and the required on-the-ground management solutions may vary depending on the ecosystem type, the species being fished, the type of fishery<sup>16</sup> and/or the gear being used. Notwithstanding this, common root causes are often identifiable and will typically relate to weak governance, awareness and control. In this context, Illegal, Unreported and Unregulated (IUU) fishing constitutes an important aspect of the unsustainability issue in the CLME<sup>+</sup>. It is accentuated by an inadequate institutional framework and limited financial and human capacity to monitor and enforce the existing regulations, combined with a lack of awareness and/or access to viable legal alternatives of decent work<sup>17</sup>.

#### Habitat degradation and modification of the community structure of ecosystems

*Annual loss in net revenues from tourism due to ongoing coral reef degradation between 2000 and 2015 have been estimated to range between 100-300 million US\$.<sup>18</sup>*

Habitat degradation is a severe problem across the CLME<sup>+</sup>, with marine and coastal habitats being physically, chemically and biologically impacted by marine and land-based causes, including “coastal development”. Such causes may be associated with activities such as tourism, industry, agriculture, fisheries, shipping, real estate development and housing, and land reclamation. Increase in sea surface temperature and acidification as a consequence of climate variability and change can cause damage to critical habitats such as coral reefs.

Coastal habitats within the reef and continental shelf ecosystems of the CLME<sup>+</sup> are particularly subject to impacts from coastal development, destructive fishing methods, mining, oil and gas exploration, and marine and land-based sources of pollution (e.g. industrial and wastewater discharges, agrochemicals, and storm runoff). Deep sea habitats are most likely also affected, but evidence on the level of impacts within the CLME<sup>+</sup> is not available at present. Both overfishing and invasive species (e.g. lionfish) can alter

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<sup>15</sup> Statistics from FAO

<sup>16</sup> e.g. small-scale, industrial, recreational

<sup>17</sup> According to the International Labour Organisation ILO, Decent Work involves opportunities for work that is productive and delivers a fair income, security in the workplace and social protection for families, better prospects for personal development and social integration, freedom for people to express their concerns, organize and participate in the decisions that affect their lives and equality of opportunity and treatment for all women and men.

<sup>18</sup> Reefs at Risk WRI

the community composition of ecosystems, which can lead to further degradation of associated habitats (e.g. the increasing abundance of algae species on reefs due to the overfishing of herbivorous fishes in combination with excessive nutrient loads).

The combined problem of habitat degradation and community modification severely impacts the tourism potential of the region, affects the sustainability of fisheries and increases the vulnerability of coasts to extreme events and sea level rise.

## Pollution

Although pollution in the CLME<sup>+</sup> affects all three ecosystem types, its impacts are typically more evident along the coastal zone. Pollution problems in the CLME<sup>+</sup> can be linked to a diversity of both land-based and marine sources and activities: e.g. tourism, households, industry, agriculture, forestry, mining, shipping and exploration for oil and gas. Generally, it will be possible to establish a direct link between the (often more localized) problems of marine pollution near the coasts and the human activities occurring in these areas. The volume of maritime transport in the region suggests that this activity constitutes an important (potential) source of pollution, through e.g. the discharge of garbage and waste, and the possibility of accidents including oil spills. A complex issue is the problem of land-based sources of pollution, which may be located at considerable distances from the sea. Such sources may still impact vast expanses of marine environment, as increased sediment, nutrient and contaminant loads are being discharged into both LMEs by the rivers from the region's major drainage basins (e.g. those of the Amazon, Orinoco and Magdalena rivers in South America, and those associated to other major rivers in Central America and the Caribbean islands).

Impacts from pollution range from biological, physical and chemical impacts that affect water quality, patterns, abundance and quality of products from fisheries and overall health of marine habitats, to visual impacts that can severely affect the amenity value of the region. All these impacts have a negative effect on tourism, fisheries, public health and biodiversity. Climate change can further exacerbate the impacts of pollution, through changes in runoff patterns and decreased ecosystem health which may in turn result in reduced resilience of ecosystems towards contaminants.

## 1.4. ROOT CAUSES OF THE THREE KEY PROBLEMS

Under the Transboundary Diagnostic Analyses (TDA)<sup>19</sup> conducted by the CLME Project, Causal Chains<sup>20</sup> were developed to link the transboundary issues described under Section 1.3 to their *direct*, *intermediate* and *root* causes.

The CLME project recognizes the particular importance of tackling the root causes of transboundary problems: while local actions that address direct causes may yield specific, local-scale results in the short term, such solutions will often not be sustainable or cost-effective if at a wider regional level the root causes of the problems are not eradicated or controlled<sup>21</sup>. Addressing root causes at the ecosystem scale<sup>22</sup> will therefore be necessary in order to achieve region-wide or even globally relevant and sustainable impacts and results.

The following Table highlights the main root causes of the problems that are common to the 3 ecosystem types described under Section 1.2. The outcomes of the TDA's thus provided fundamental guidance for the development of the CLME's Strategic Action Programme or "SAP", as the identified root causes constituted a basis for the formulation of the **Strategic Directions, Strategies and priority Actions** of the CLME+ SAP.

**Table 2 Common root causes identified through the CLME TDA's**

|                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------|
| 1. <b>Weak governance</b> (including legal & institutional frameworks, inadequate environmental quality standards and legislation) |
| 2. Limited <b>human and financial resources</b>                                                                                    |
| 3. Inadequate (access to) <b>data and information</b> (inadequate knowledge)                                                       |
| 4. Inadequate <b>public awareness &amp; participation</b>                                                                          |
| 5. Inadequate consideration of <b>value of ecosystem goods &amp; services</b>                                                      |
| 6. <b>Population and cultural pressures</b>                                                                                        |
| 7. <b>Trade and external dependency</b> (high dependence on fish for income and export earnings)                                   |

<sup>19</sup> <http://www.clmeproject.org/clmetdas2.html>

<sup>20</sup> <http://www.clmeproject.org/clmetdas3.html>

<sup>21</sup> e.g. field campaigns to reduce illegal fishing implemented by a single country may not be cost-effective and may not yield the desired results if regional and/or local root causes such as *insufficiently harmonized legal frameworks* and the *lack of alternative livelihoods* remain unresolved.

<sup>22</sup> e.g. at the scale of the *fishery ecosystem*, or at the *LME-level*

In addition to the 3 identified key issues (*unsustainable fisheries, habitat degradation and pollution*), regional stakeholders also expressed concerns regarding the vulnerability of ecosystems and human society to **climate variability and change** in the CLME<sup>+</sup>. The CLME<sup>+</sup> SAP therefore explicitly recognizes that adaptation to climate change needs to be mainstreamed into the specific activities that will be developed and implemented under its different Strategies and Actions. Two criteria that need to be given particular consideration in this context are: (a) how will the proposed Actions and activities contribute to increasing the **resilience** to climate change of the region, its ecosystems and its people, and (b) how **robust** are the proposed solutions in the context of the uncertainty surrounding climatic variability and change<sup>23</sup>.

## 1.5. REVERSING THE TREND: THE NEED FOR A COORDINATED, INTEGRATIVE AND ECOSYSTEM-BASED APPROACH

Geopolitical fragmentation of the CLME<sup>+</sup> region lies at the basis of the highly transboundary nature of not only marine ecosystems and living resources, but also of the identified priority problems. With the people and economies of the CLME<sup>+</sup> being so critically dependent on the goods and services provided by these threatened ecosystems, further expansion and enhancement of the levels of cooperation among CLME<sup>+</sup> countries, organisations and sectors with a stake in the marine environment will be crucial if the substantial benefits derived from these ecosystems are to be maintained, increased or restored.

In many parts of the CLME<sup>+</sup> - both at local, national and sub-regional levels - considerable efforts are already being undertaken to deal with the priority problems described under Section 1.3. The Convention for the Protection and Development of the Marine Environment in the wider Caribbean Region (“Cartagena Convention”, 1983) is a comprehensive agreement that provides a legal framework for cooperative regional and national actions. More recent examples of cooperative efforts are reflected in the *Campeche Declaration* of 2008 on the *Mesoamerican Strategy for Environmental Sustainability*, the signing in 2012 of a *Memorandum of Understanding* between the *Caribbean Regional Fisheries Mechanism* (CRFM) and the *Organisation of the Fisheries and Aquaculture Sector of the Central-American Isthmus* (OSPESCA)<sup>24</sup>, and the ongoing development by the *Organisation of Eastern Caribbean States* (OECS) of an Oceans Governance Policy mutually supportive and complementary with the CLME<sup>+</sup> SAP, and which -when adopted- will be the first regional ocean policy to be agreed upon in the region.

Notwithstanding the successes alluded to above, cost-effectiveness and continued success of these actions can be jeopardized by inadequate governance, knowledge and information, by lack of sustainable financing and by insufficient levels of coordination and harmonization across the wider ecosystem.

The need to implement an ecosystem approach<sup>25</sup> and the critical importance of addressing root causes have been noted as essential to ensuring the sustainable provision of goods and services from ecosystems and associated living marine resources in the CLME<sup>+</sup>. Increasing recognition indeed exists within the region that steps must be taken towards the implementation of an integrative and well-coordinated, ecosystem-based governance model for the adaptive<sup>26</sup> management of marine resources. Ultimately, such an integrated *regional governance framework* should involve all sectors with a stake in the marine environment (e.g. fisheries, tourism, shipping, oil and gas, etc.). However, the complexity of

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<sup>23</sup> See Annex 1

<sup>24</sup> See Annex 5 for the CRFM-OSPESCA Action Plan

<sup>25</sup> See Annex 1

<sup>26</sup> “Adaptive” is used here both in terms of improving management based on “learning by doing” as well as in the sense of adapting management to changing environmental conditions, as e.g. caused by the dynamics of society and politics, and climate change

the region and the existing constraints in terms of financial, technical and human capacity make it necessary that step-wise progress is planned.

The CLME<sup>+</sup> Project has been innovative in this sense as it has adopted the concept of fishery ecosystem types to steer the development of its Transboundary Diagnostic Analyses (TDAs) and Strategic Action Programme (SAP). With the project's specific thematic focus, and with the Caribbean and North Brazil Shelf LMEs as the overarching geographic scope for its SAP, the CLME Project is uniquely positioned among all projects and initiatives in the region to initiate such a step-wise, region-wide process.

The strategies and timeline of the CLME<sup>+</sup> SAP provide a roadmap that will help the countries of the region in their efforts to gradually expand capacities and knowledge, and strengthen the frameworks and arrangements for region-wide cooperation, coordination and decision-making. In line with the current project's scope, efforts under CLME<sup>+</sup> SAP implementation will primarily contribute to creating the enabling conditions for improved and sustainable *shared living marine resources* governance and management in the CLME<sup>+</sup><sup>27</sup> during the next decade. During this period, gradual expansion of the scope of the framework can then be planned, as additional awareness is being built and stakeholders – including the private sector- become increasingly involved.

Although many of the CLME<sup>+</sup> SAP's actions will focus on tackling the root causes of transboundary problems listed in Table 2, the SAP does recognize that bringing about structural change will not always yield immediate benefits and results<sup>28</sup>. Therefore, there will be a need to combine and complement such actions for structural change and increased capacity with high-priority investments<sup>29</sup> that will address some of the more critical direct causes, through specific on-the-ground actions.

## 1.6. A NETWORK OF ORGANISATIONS AND GOVERNANCE ARRANGEMENTS

CLME<sup>+</sup> SAP implementation will include a substantial focus on strengthening and expanding the regional, sub-regional and national-level collaborative governance and living marine resources management efforts. Such objectives can be accomplished through the incremental development of a network of inter-linked and complementary organisations that can address the key issues described under Section 1.3., i.e. a *regional governance framework (RGF)*<sup>30</sup>.

In the CLME<sup>+</sup> region, considerable resources have already been invested in a myriad of regional and sub-regional organisations. For this reason, organisations that already successfully exercise leadership should be further strengthened, within their existing geographical or thematic areas of responsibility. Enhanced coordination and collaboration among organizations and arrangements will be needed during the implementation of the SAP. Being cognizant of the short- and long-term needs of the region and its people, and to the existing limitations in terms of available human and financial resources, the development of the SAP *framework* will need to match the national and (sub-)regional capacity to

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<sup>27</sup> Such action would be coordinated primarily through the Ministries responsible for Environment and Fisheries, in collaboration with other relevant sectors and organisations.

<sup>28</sup> In terms of improved socio-economic and environmental conditions

<sup>29</sup> Possible examples are investments to deal with Illegal, Unregulated and Unreported fishing (IUU), and to deal with the lack of alternative sources of "Decent Work".

<sup>30</sup> Under such nested and multi-level governance framework, inter-linked arrangements are to be established to make it possible to address the key issues (problems that affect the marine environment and associated resources) in an integrated way. Such RGF approach to governance allows stakeholders to clearly identify their roles, and calls for the application of the principle of subsidiarity. A technical report including a proposal for a regional governance framework (RGF) and an overview of key regional organisations with a stake in shared living marine resources management has been prepared for the CLME Project by the Centre for Resource Management and Environmental Studies (CERMES). The report is available through: <http://www.clmeproject.org/gframework2.html>

implement agreed strategies and actions, and the means available to countries and organizations for this purpose.

Criteria such as political acceptance, inclusiveness, cost-effectiveness and sustainability of identified and proposed solutions, as well as the overall costs and benefits of strengthening collaborative governance arrangements will therefore be key in the definition and planning of actions. Synergies among strategies and actions and arrangements will need to be maximized, overlaps will need to be identified and gradually eliminated, and the principle of subsidiary management - *in which responsibility lies at the scale level closest to the issue to be managed* - will need to be optimally applied.

## 1.7. THE CRITICAL NEED FOR ADAPTATION AND ADAPTIVE MANAGEMENT

Changing conditions - in terms of status and characteristics of the environment, and the dynamics of human society and politics- can be expected to occur in the region over the next decade (i.e. during the implementation of the CLME<sup>+</sup> SAP), and beyond. In this context, vulnerability to natural disasters may further increase as a consequence of climate change.

Together with the foreseen gradual expansion of the regional knowledge and experience base on living marine resources management, the above changes make it imperative to adopt an *adaptive* approach for the implementation of the CLME<sup>+</sup> SAP.

The *mainstreaming of adaptation measures* into the different Strategies and Actions will be intrinsically considered during the implementation of the SAP, and is coherent with the aim of achieving a sustainable provision of societal benefits derived from the marine ecosystems, even in the context of unavoidable environmental change.

## 1.8. DEVELOPMENT OF A STRATEGIC ACTION PROGRAMME FOR THE CLME<sup>+</sup>

The CLME<sup>+</sup> Strategic Action Programme (SAP) identifies the directions, strategies and actions that need to be taken in order to enable and enhance the sustainable provision of goods and services from marine ecosystems at regional, sub-regional, national and local levels. To facilitate this, the CLME<sup>+</sup> SAP development process - and the CLME Project as a whole - has encouraged widespread consultation and participation by partners and stakeholders at all levels in the region. The SAP development process (

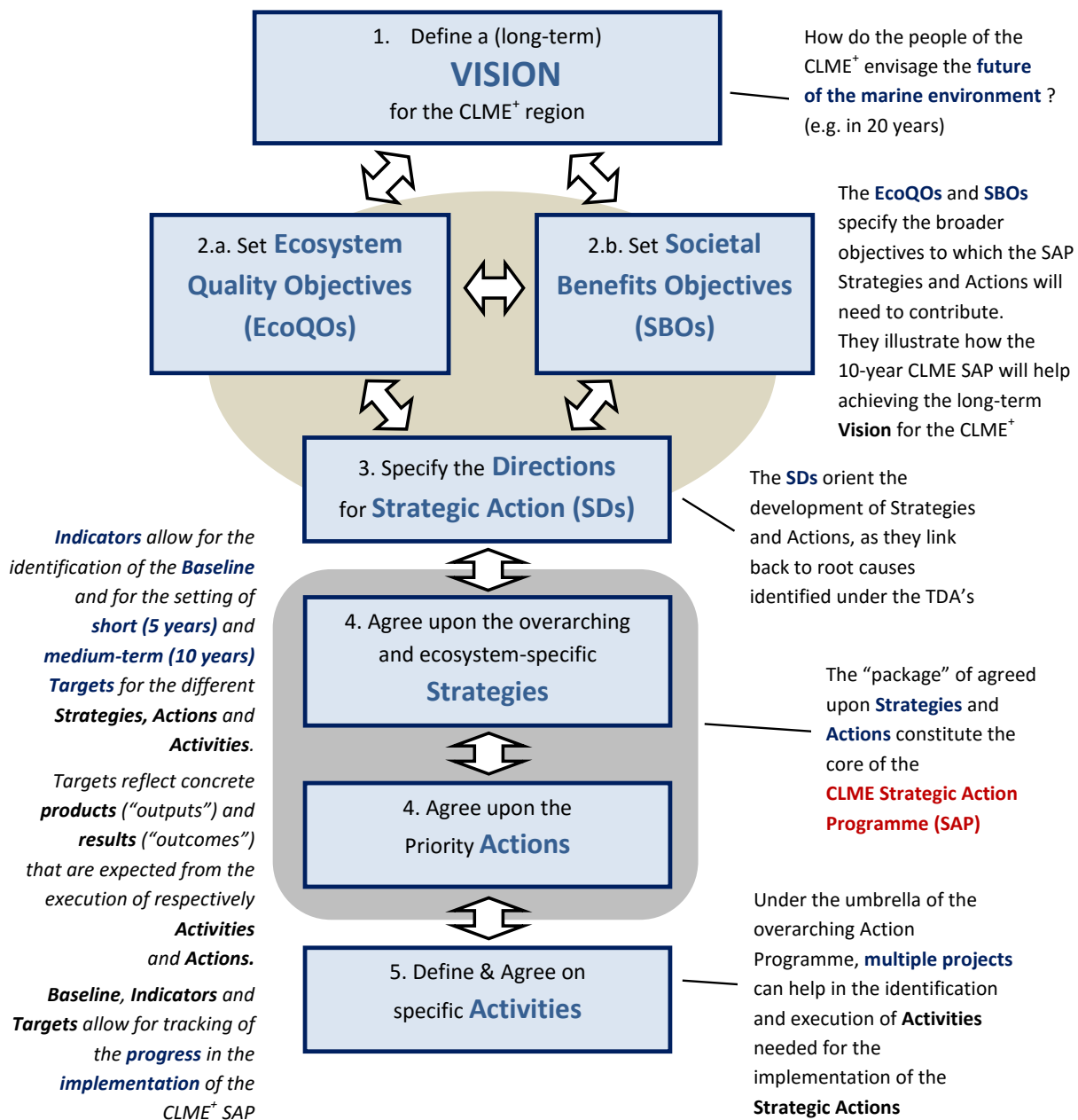
**Figure 3)** was initiated by posing the question “How do the people of the CLME<sup>+</sup> want the future of the marine environment in the region to be?” The answers to this question led to the articulation of a long-term “Vision” for the region. Based on this “Vision” statement, Ecosystem Quality and Societal Benefits Objectives (EcoQOs and SBOs) were defined.

Next, incorporating the findings from the CLME TDAs, Case Studies and Pilot Projects, the *Directions*<sup>31</sup> that the *Strategies* of the CLME<sup>+</sup> SAP should take were identified. Three “CLME<sup>+</sup>-level” and three “fishery ecosystem-specific” *Strategies* were then proposed together with a series of associated Actions. During each step, particular attention was given to priority problems and their associated root causes described under Sections 1.3 and 1.4.

Chapter 2 documents the development of each of these concepts and constitutes the core of the CLME<sup>+</sup> SAP.

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<sup>31</sup> e.g. which root causes will be addressed by the CLME SAP Strategies? Around which concepts and principles should the SAP Strategies and Actions be structured and organized?



**Figure 3 Stepwise approach to the development and implementation of the CLME<sup>+</sup> SAP**

## 2. THE CLME<sup>+</sup> STRATEGIC ACTION PROGRAMME (SAP)

### 2.1. LONG TERM VISION FOR THE CLME<sup>+</sup> AND FOCUS OF THE 10-YEAR SAP

Through the Strategic Action Programme, the States and territories in the CLME<sup>+</sup> region are adopting the following long-term vision on the marine environment:

Vision statement for the Caribbean and North Brazil Shelf LMEs:

***“a healthy marine environment in the CLME<sup>+</sup>  
provides benefits and livelihoods  
for the well-being of the people of the region”***

CLME<sup>+</sup> countries recognize that establishing sustainable, cost-effective and functional mechanisms for integrated governance and management of the marine environment within the next 20 years will be essential for the restoration and maintenance of the health of the marine environment and of the associated societal benefits. However, it has been recognized that a step-wise approach will be required. The CLME<sup>+</sup> SAP will therefore contribute to the achievement of this long-term vision, by proposing specific short-term (0-5 years) and medium-term (6-10 years) actions.

The **10-year CLME<sup>+</sup> SAP** will thus provide a common roadmap that will guide countries and stakeholders, sub-regional and regional organisations, multi-lateral and bilateral donors towards achieving the more fully articulated vision of: *“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”*.

Through the SAP, the countries of the CLME<sup>+</sup> Region commit to the implementation of a comprehensive package of coordinated Strategies and Actions that are **focused on governance and management of shared Living Marine Resources**. Once the countries have endorsed the SAP, specific activities will be defined to materialize the described Strategies and Actions.

The key principles of good management described in Annex 1 are considered to be fully applicable to the CLME<sup>+</sup> SAP and will be applied throughout its implementation.

## 2.2. CLME<sup>+</sup> SAP OBJECTIVES AND STRATEGIC DIRECTIONS

### Long-Term Objectives for the CLME<sup>+</sup>

The CLME<sup>+</sup> SAP adopts as the broad, long-term Ecosystem Quality Objective (EcoQO) for the marine environment of the CLME<sup>+</sup>:

- **“Healthy Reef, Continental Shelf and Pelagic Ecosystems”**

Achieving this EcoQO will allow the Region to ensure the following Societal Benefits (SBO):

- **“The provision of goods and services by the marine ecosystems of the CLME<sup>+</sup> is such that it optimizes the systems’ contributions to societal well-being and to the region’s development needs”** (including the preservation of aesthetic, cultural, traditional, health and scientific values of the ecosystems)

### Ecosystem-Specific Objectives and Societal Benefits

More specific Ecosystem Quality Objectives (EcoQOs) are adopted for the three key ecosystems that support the most important fisheries and biodiversity in the CLME<sup>+</sup>.

The EcoQO for the pelagic ecosystem is formulated as:

- **“Conservation, protection, and/or restoration of the fish stocks and biodiversity of the pelagic ecosystem”**

The priority transboundary issues that are most relevant to this EcoQO are: *unsustainable fisheries, habitat degradation and modification of ecosystem communities*, and to a lesser extent *pollution*.

The following two specific, interlinked EcoQOs are applicable to both the Continental Shelf and Reef and associated Ecosystems:

- **“Restoration and maintenance of the fish stocks at a sustainable level and adoption of responsible fishing operations and fisheries management practices”**

The identified priority transboundary issues most relevant to this EcoQO are: *unsustainable fisheries* and *habitat degradation and modification of ecosystem communities*.

- **“Safeguarding the habitats and community structure of the ecosystems from harmful impacts (including those caused by fisheries and pollution) that would diminish the contributions of these systems for enhancing livelihoods and human wellbeing”**

The identified priority transboundary issues that are most relevant to this EcoQO are: *habitat degradation and community modification and pollution, and unsustainable fisheries practices*.

All three EcoQOs are linked to, and essential for the achievement of the following associated Societal Benefits Objective:

- **“Contributions to human well-being, socio-economic development, food security and enhanced livelihoods from goods and services provided by the ecosystems are optimized”**

Mainstreaming adaptation to climate change across all actions that will contribute to the achievement of the above objectives is an important overarching consideration for the CLME<sup>+</sup> SAP.

## Strategic Directions

In order to achieve the EcoQOs and associated SBO, two Strategic Directions (SDs) have been defined.

The two Strategic Directions reflect different responsibilities with regard to the management of the shared Living Marine Resources:

**SD1. Establishment and implementation of coordinated and cost-effective fisheries governance and inter-sectoral management arrangements that are broadly supported, based on adequate consultation, use the best scientific evidence available, and are equipped to implement the precautionary and ecosystem approaches to fisheries**

Organisations mandated to work on sustainable fisheries management will have main responsibility over the implementation of specific strategies and interventions under this Strategic Direction, but will, under the adoption of the Ecosystem Approach to Fisheries, consult on and coordinate the implementation of associated strategies with all relevant sectors, particularly those with a mandate to work on advancing the protection of the marine environment.

**SD2. Establishment and implementation of coordinated and cost-effective governance and inter-sectoral planning and management arrangements that are broadly supported, based on adequate consultation, use the best scientific evidence available and safeguard the health of the marine environment in the CLME<sup>+</sup>**

Organisations mandated to work on advancing the protection of the marine environment will have main responsibility over the implementation of specific strategies and interventions under this Strategic Direction, but will, in the context of ecosystem-based, integrative and inclusive governance and management, consult and coordinate the implementation of strategies with all relevant sectors, in particular the Fisheries Sector.

## 2.3. CLME+ SAP STRATEGIES & ACTIONS

The overarching objective of all Strategies and Actions is the achievement of the societal benefits associated with improved ecosystem conditions, as expressed through the CLME+ SAP Vision, the Societal Benefits Objective and Ecosystem Quality Objectives formulated under Sections 2.1 and 2.2 of this document. All SAP Strategies and Actions thus need to be interpreted as means to achieve these objectives.

For the full CLME+ SAP, it is considered that the subsidiarity principle applies. This means that certain Actions described under the regional-level Strategies may not be repeated under the ecosystem-specific Strategies; even so, it can be assumed that equivalent action at the sub-regional or ecosystem-level will take place.

### Regional-level Strategies for Shared Living Marine Resources Governance

At the regional level, the three overarching Strategies to strengthen and operationalise a regional governance framework for shared Living Marine Resources are:

***S1. Enhance the regional governance arrangements for the protection of the marine environment***

(Proposed Lead Organisation: UNEP CEP)

***S2. Enhance the regional governance arrangements for sustainable fisheries***

(Proposal: phased approach with FAO- WECAFC, as Interim Lead working closely with CRFM, OSPESCA and OECS)

***S3. Establish and operationalise a regional policy coordination mechanism for governance of the marine environment, with initial focus on shared living marine resources***

(Proposal: phased approach with the Regional Fisheries Bodies and Regional Environmental Bodies establishing an Interim Coordination Mechanism in the short-term)

## Ecosystem type-based Strategies for Shared Living Marine Resources Governance

Three additional strategies<sup>32</sup> are developed to secure the sustainable provision of goods and services from the shared Living Marine Resources at the level of the 3 key ecosystem types identified under Section 1.2. A total of 4 sub-strategies were added; these sub-strategies are directly oriented towards implementing the ecosystem approach for the following key fisheries in the CLME+ region: Caribbean spiny lobster, queen conch, flyingfish and large pelagics<sup>33</sup>.

***S4. Enhance the governance arrangements for ecosystem-based management of reefs and associated ecosystems (e.g. seagrass beds, mangroves, reef slopes and coastal lagoons)***

***S5. Enhance the governance arrangements for implementing an ecosystem approach for pelagic fisheries***

***S6. Implement EBM/EAF of the Guianas-Brazil continental shelf with special reference to the shrimp and groundfish fishery***

## Strategic Actions for the protection of the marine environment

***Strategy 1: Enhance the regional governance arrangements for the protection of the marine environment***

*In this context, Strategy 1 proposes a series of short-term (initial 5 years after SAP endorsement) and medium-term actions (between 6-10 years from SAP endorsement).*

***Proposed Lead Organisation: UNEP CEP***

❖ Actions :

- 1.1. *[Short]*<sup>34</sup> Establish and operationalise a formal agreement for coordinated action with Brazil
- 1.2. ***[Short, Medium]***<sup>35</sup> Establish and strengthen regional institutional coordination and cooperation arrangements
- 1.3. ***[Short, Medium]*** Evaluate the expansion and strengthening of the mandate of organisations to effectively address issues relating to habitat degradation and pollution in the marine environment

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<sup>32</sup> The Figures in Annex 3 illustrate how the three key transboundary issues affect both the overall CLME+ as well as each one of the 3 ecosystem types and associated fisheries. They further show how together the 6 CLME+ SAP Strategies allow to deal with these 3 issues both at the broader regional level as well as at the level of each of the key ecosystem types, and how the CLME+ SAP has been inspired by the results of the Regional Governance Framework technical study conducted by CERMES-UWI.

<sup>33</sup> Other fisheries are directly dealt with under Strategies 4-6.

<sup>34</sup> Inclusion of only the word "Short" between the square brackets indicates that an Action is expected to be finalised within the initial five-years of SAP implementation.

<sup>35</sup> The bold letter type used for "Short" indicates that most of the effort will take place during the first 5 years of SAP implementation; however, the word "Medium" is also included in order to indicate that actions will extend beyond the initial 5 years: it is expected that full implementation of the action will only be finalised in the medium-term (10-year period).

- 1.4. **[Short, Medium]** Enhance the compliance and enforcement capacity of the regional, sub-regional and national governance arrangements
- 1.5. **[Short, Medium]** Establish and/or enhance the capacity of the regional, sub-regional and national governance arrangements for the involvement of civil society in the implementation of the EBM/EAF approach (IGOs, NGOs, CBOs, private sector...)
- 1.6. **[Short, Medium]**<sup>36</sup> Enhance the capacity within and among arrangements to mainstream lessons learned and findings from monitoring, science and research in regional, sub-regional and national decision-making
- 1.7. **[Short, Medium]** 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
- 1.8. **[Medium]**<sup>37</sup> Establish and/or increase the capacity of (sub-)regional organisations and countries for integrating the management of terrestrial drainage basins and coastal development with the management of the marine recipient basins (CLME and NBSLME)
- 1.9. **[Medium]** 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. **[Medium]** Establish and/or enhance the data and information quality and data and information collection and management capacity of the regional, sub-regional and national governance arrangements, including through the establishment of public-private partnerships
- 1.11. **[Medium]** 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

## Strategic Actions for sustainable fisheries

### **Strategy 2: Enhance the regional governance arrangements for sustainable fisheries**

This is a strategy with short-term (*initial 5 years after SAP endorsement*) and medium-term interventions (*between 6-10 years from SAP endorsement*).

**Proposed Lead Organisation:** FAO-WECAFC

#### ❖ Actions :

- 2.1. **[Short]** Establish an interim arrangement for sustainable fisheries coordinated by FAO-WECAFC and including CRFM, OSPESCA and OECS
- 2.2. **[Short]** Review, and reform WECAFC as needed to clarify and strengthen its mandate and relationship with Regional Fisheries Bodies such as CRFM, OSPESCA and ICCAT

<sup>36</sup> Inclusion of both "short" and "medium" –none of both terms in bold- means that certain components of this activity will be initiated and finalized within the first five years, whilst other components are expected to only start in the medium-term, and become finalized within ten years.

<sup>37</sup> When the square brackets only contain the word "Medium", it indicates that although considerable work will commence in the first 5 years, it is expected that it will take 10 years for the action to finalize.

- 2.3. *[Short, Medium]* Evaluate the needs and the options, agree on the mandate & operationalise<sup>38</sup> a Regional Fisheries Management Organisation (RFMO) or alternative arrangement for the management of shared living marine resources
- 2.4. *[Short, Medium]* Establish and/or enhance the capacity of the regional, sub-regional and national governance arrangements for the broader involvement of society in the implementation of the EBM/EAF approach (IGOs, NGOs, CBOs, private sector...)
- 2.5. *[Short, Medium]* Establish and/or enhance the capacity of the regional, sub-regional and national fisheries institutions to develop and implement harmonized management and conservation measures, with special focus on Illegal, Unreported and Unregulated Fishing (IUU) and Monitoring, Control & Surveillance (MCS)
- 2.6. *[Short, Medium]* Coordinate the development and implementation of fisheries-specific initiatives for IUU and MCS
- 2.7. *[Short, Medium]* Coordinate the development and implementation of regional, sub-regional and national initiatives for sustainable small scale fisheries (including capacity building and pilot initiatives)
- 2.8. *[Short, Medium]* Coordinate the development and implementation of regional, sub-regional and national initiatives to improve welfares and livelihoods through the provision of Decent Work (including through the development of alternative livelihoods, capacity building and pilot initiatives)
- 2.9. *[Short, Medium]* Coordinate the development and implementation of regional, sub-regional and national initiatives to enhance safety and reduce risk factors (including at sea) for fishers, with particular focus on risk management
- 2.10. *[Short, Medium]* Establish and/or enhance the capacity to manage knowledge and to mainstream findings from monitoring, science & research in regional, sub-regional and national decision-making and policy development for sustainable fisheries
- 2.11. *[Short, Medium]* Establish and/or enhance the capacity to undertake and mainstream valuation of ecosystem goods and services in regional, sub-regional and national decision-making and policy development for sustainable fisheries
- 2.12. *[Medium]* 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 sustainable use and conservation of the marine environment and associated living resources (including the support to update and harmonize national legislation and regulations)
- 2.13. *[Medium]* Establish and/or enhance the data and information quality and collection and management capacity of the regional, sub-regional and national fisheries governance arrangements, including through the establishment of public-private partnerships
- 2.14. *[Medium]* Establish and/or enhance the capacity of the regional, sub-regional and national fisheries governance arrangements for the monitoring, assessment & reporting on the state of fisheries.

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<sup>38</sup> As applicable

## Strategic Actions for regional inter-sectoral coordination

### ***Strategy 3: Establish and operationalise a regional policy coordination mechanism for ocean governance with initial focus on shared Living Marine Resources***

This CLME<sup>+</sup> SAP Strategy with short-term (5 years) and medium-term (6-10 years) actions focuses on shared Living Marine Resources; in order to achieve fully integrative governance of the marine environment in the CLME<sup>+</sup> within the next 20 years, these actions will need to be complemented (in the long-term) to involve additional key sectors such as shipping, tourism, and oil and gas.

#### ***Proposed Lead Organisations: Interim coordination mechanism<sup>39</sup>***

##### ❖ Actions :

- 3.1. *[Short]* Agree upon and establish an interim coordination mechanism amongst the regional sub-arrangements for sustainable fisheries and for the protection of the marine environment
- 3.2. *[Short]* Evaluate all options and propose a permanent policy coordination mechanism with a clear mandate which is financially sustainable, geographically inclusive and politically acceptable and which takes into account the principle of subsidiarity (this may include the identification of appropriate reforms)<sup>40</sup>
- 3.3. *[Short, Medium]* Adopt and operationalise the permanent regional policy coordination mechanism for shared Living Marine Resources (sLMR) governance
- 3.4. *[Short, Medium]* Develop and adopt a regional policy for data and information harmonization and sharing
- 3.5. *[Medium]* Develop and coordinate integrated and sectoral research strategies in support of the implementation of broader ocean governance in the region, with a short and medium term focus on sLMR management
- 3.6. *[Medium]* Develop and coordinate integrated and sectoral sustainable financing strategies for the cost-effective implementation of broader ocean governance in the region, with a short and medium term focus on sLMR governance
- 3.7. *[Medium]* Facilitate the preparation of data and information products and the uptake of monitoring and research outputs by (sub)regional and national science-policy interfaces

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<sup>39</sup> The Interim coordination mechanism will be established under Action 3.1. and will include the organisations that will be spearheading the implementation of Strategies 1 and 2 (i.e. as a minimum UNEP CEP, FAO-WECAFC, CRFM, OSPESCA and OECS).

<sup>40</sup> It is foreseen that under Action 3.2 feasibility studies will be conducted in combination with consultative and decision-making processes; as a minimum all signatory parties to the CLME<sup>+</sup> SAP will be involved in these activities.

## Strategic Actions for the governance of Reefs and Associated Ecosystems

The overall SAP Strategy for Reefs and Associated Ecosystems in the CLME<sup>+</sup> is formulated as follows:

**Strategy 4: Enhance the governance arrangements for ecosystem-based management of reefs and associated ecosystems (e.g. seagrass beds, mangroves, reef slopes and coastal lagoons)**

**Proposed Lead Organisations:** UNEP-CEP, FAO-WECAFC, OSPESCA and CRFM

❖ Actions :

- 4.1. *[Short]* Strengthen the formal cooperation between OSPESCA and CCAD for implementing the EBM/EAF approach
- 4.2. *[Short]* Establish and/or enhance the cooperation between environmental, fisheries and other relevant agencies within CARICOM for implementing the EBM/EAF approach
- 4.3. *[Short, Medium]* Establish, strengthen and harmonize(sub-)regional and/or fisheries-specific initiatives to combat IUU fishing by combining compliance measures (Monitoring Control and Surveillance plus awareness building among consumers & producers) with the provision of alternative livelihoods
- 4.4. *[Short, Medium]* Coordinate and enhance (sub-)regional and national efforts for the conservation of the biodiversity of reef and associated habitats, including through the strengthening of networks of marine protected areas (MPAs) and initiatives for sustainable reef fisheries<sup>41</sup> such as programmes for dealing with alien invasive species
- 4.5. *[Short, Medium]* Develop and implement initiatives for sustainable livelihoods by building capacity for diversification, fostering and facilitating viable alternative sources of Decent Work and/or improved incomes, and creating added value (e.g. through marketing and sales)
- 4.6. *[Short, Medium]* Establish and/or enhance the institutional structure and capacity of (sub-) regional and national arrangements for implementing management and conservation measures for reef ecosystem
- 4.7. *[Short, Medium]* Strengthen the capacity of Regional Fisheries Bodies to engage and build capacity among member States to implement the EBM/EAF approach, through National Action Plans (NAPs), data/information management and analysis, and operationalisation of national inter-sectoral coordination and consultation mechanisms that include science-policy interfaces
- 4.8. *[Medium]* Operationalise and strengthen interlinked Decision Support Systems (DSSs) for the protection of reefs and associated ecosystems and for the sustainable management of associated living marine resources

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<sup>41</sup> Including such habitats on the Guianas-Brazil continental shelf

***Sub-Strategy 4A: Enhance the governance arrangements for implementing an ecosystems approach for spiny lobster fisheries***

***Proposed Lead Organisations: FAO-WECAFC, UNEP-CEP, OSPESCA, CRFM***

❖ Actions :

- 4A.1. *[Short]* Establish, strengthen and coordinate arrangements between the FAO-WECAFC, OSPESCA, UNEP-SPAW and CRFM to harmonize the spiny lobster fishery governance and management throughout the CLME<sup>+</sup> region
- 4A.2. *[Short]* Evaluate and expand, as applicable, the geographic scope of the governance arrangement operated by OSPESCA, taking into consideration both the perspectives of species range (ecosystem approach) and of common markets
- 4A.3. *[Medium]* Strengthen and achieve full implementation of policy cycles under the existing sub-regional governance arrangements for the management of the spiny lobster fisheries, including linkages with organisations working on the environmental protection of reefs and associated ecosystems
- 4A.4. *[Medium]* Operationalise and strengthen a DSS for the spiny lobster fisheries (including linkages to the DSS for the protection and sustainable management of reefs and associated living marine resources)

***Sub-Strategy 4B: Enhance the governance arrangements for implementing an ecosystem approach for the queen conch fisheries***

***Proposed Lead Organisations: FAO-WECAFC, UNEP-CEP, OSPESCA, CRFM, CFMC, CITES***

❖ Actions :

- 4B.1. *[Short]* Establish, strengthen, and coordinate the arrangements for the management and conservation of queen conch between all relevant organisations such as CFMC, FAO-WECAFC, CRFM, UNEP SPAW, OSPESCA and CITES
- 4B.2. *[Short]* Develop and adopt a regional framework and management and conservation plan for the queen conch with regional-level harmonized regulations (including trade issues)
- 4B.3. *[Short, Medium]* Develop, adopt and implement the sub-regional agreements for the management of the queen conch resource
- 4B.4. *[Medium]* Strengthen, and achieve full implementation of policy cycles under the existing sub-regional governance arrangements for the management of queen conch fisheries, including linkages with organisations working on the environmental protection of reefs and associated ecosystems (EAF)
- 4B.5. *[Medium]* Operationalise and strengthen a DSS for the queen conch fisheries (including linkages to the DSS for the protection and sustainable management of reefs and associated living marine resources)

## Strategic Actions for the governance of the Pelagic Fishery Ecosystem

The overall SAP Strategy for the Pelagic Fishery Ecosystem in the CLME<sup>+</sup> is formulated as follows:

### ***Strategy 5: Enhance the governance arrangements for implementing an ecosystem approach for pelagic fisheries***

***Proposed Lead Organisations: FAO-WECAFC, CRFM and OSPESCA***

#### ❖ Actions :

- 5.1. *[Short]* Establish linkages between the sub-regional governance arrangements for the different types of pelagic fisheries in order to more fully implement the ecosystem approach (e.g.: prey–predator relationships)
- 5.2. *[Short, Medium]* Establish, strengthen and harmonise, as feasible, (sub-)regional and/or fisheries-specific initiatives to combat IUU by combining compliance measures (Monitoring Control and Surveillance plus awareness building among consumers and producers) with the provision of alternative livelihoods
- 5.3. *[Short, Medium]* Develop and implement initiatives for sustainable livelihoods by building capacity for diversification, fostering and facilitating viable alternative sources of Decent Work and/or improved incomes, and creating added value (e.g. through marketing and sales)
- 5.4. *[Short, Medium]* Establish and/or enhance the capacity of regional, sub-regional and national arrangements for the effective implementation of management measures
- 5.5. *[Short, Medium]* Strengthen the capacity of Regional Fisheries Bodies to engage and build capacity among member States to implement the EBM/EAF approach, through National Action Plans (NAPs), data/information management and analysis, and operationalisation of national inter-sectoral coordination and consultation mechanisms that include science-policy interfaces
- 5.6. *[Medium]* Operationalise and further enhance an integrated, sub-regional decision-support system (DSS) for the pelagic fisheries (linking large pelagics and flyingfish fisheries, and with additional linkages to DSSs for ecosystem/environmental protection, as relevant)

***Sub-strategy 5A: Enhance the governance arrangements for implementing an ecosystem approach for flyingfish fisheries***

***Proposed Lead Organisation: CRFM***

❖ Actions :

- 5A.1. *[Short]* Strengthen the FAO-WECAFC and CRFM sub-regional arrangements for the assessment and management of the flyingfish fisheries including the establishment of a decision-making capacity for management
- 5A.2. *[Short]* Establish and operationalise a formal agreement between the CRFM and France on the management of the flyingfish fisheries
- 5A.3. *[Short, Medium]* Operationalise and strengthen an integrated, sub-regional Decision Support System (DSS) for the flyingfish fisheries (in coordination with the large pelagics arrangements)
- 5A.4. *[Short, Medium]* Strengthen the FAO-WECAFC and CRFM capacity to develop, adopt and implement management and conservation measures for the flyingfish fisheries (full policy cycle implementation)
- 5A.5. *[Short, Medium]* Implement the CRFM/FAO-WECAFC Sub-Regional Management Plan for Flyingfish Fisheries in the Eastern Caribbean
- 5A.6. *[Short, Medium]* Develop and implement education and awareness building initiatives to improve understanding and enhanced stakeholder commitment and participation in planning and decision-making in the flyingfish fisheries

***Sub-strategy 5B: Enhance the governance arrangements for implementing an ecosystem approach for large pelagics fisheries***

***Proposed Lead Organisations: FAO-WECAFC, CRFM, OSPESCA***

❖ Actions :

- 5B.1. *[Short]* Establish key agreements and operationalise arrangements among organisations with a stake in large pelagics fisheries in order to implement EAF
- 5B.2. *[Short, Medium]* Strengthen the capacity of the (sub-)regional organisations and enhance the full implementation of the large pelagics fisheries policy cycle
- 5B.3. *[Medium]* Strengthen the region's position in the ICCAT decision making process through enhanced intra-regional coordination and cooperation
- 5B.4. *[Medium]* Operationalise and strengthen an integrated, sub-regional Decision-Support System (DSS) for the large pelagics fisheries (in coordination with the flyingfish arrangements)

## Strategic Actions for the governance of the Continental Shelf Ecosystem

This Strategy focuses on the Guianas-Brazil continental shelf (part of the NBSLME), the most extensive transboundary continental shelf ecosystem in the CLME<sup>+</sup> Region. The overall CLME<sup>+</sup> SAP Strategy for the Guianas-Brazil continental shelf is formulated as follows:

### ***Strategy 6: Implement EBM/EAF of the Guianas-Brazil continental shelf with special reference to the shrimp and groundfish fishery***

**Proposed Lead Organisations:** FAO-WECAFC, UNEP-CEP, CRFM

#### ❖ Actions :

- 6.1. *[Short, Medium]* Strengthen the FAO-WECAFC-CRFM sub-regional arrangement for the management of the shrimp and groundfish fisheries, and establish a decision-making capacity for policy formulation and management
- 6.2. *[Short, Medium]* Explore and establish a sub-regional arrangement to address both marine and land-based sources of pollution within the context of the expanded framework for the protection of the marine environment built under Strategy 1
- 6.3. *[Short, Medium]* Explore and establish a sub-regional arrangement to address the issue of coastal habitat degradation and destruction within the context of the expanded framework for the protection of the marine environment built under Strategy 1
- 6.4. *[Short, Medium]* Explore and establish a sub-regional arrangement to address the issue of insecurity for fishers (person and property); e.g. cases of armed robbery and assault
- 6.5. *[Short, Medium]*<sup>42</sup> Explore and establish the most appropriate mechanism for integrating the four sub-regional arrangements
- 6.6. *[Medium]* Operationalise and further enhance an interlinked, sub-regional Decision-Support Systems (DSS) for sustainable fisheries and environmental protection in the Guianas-Brazil continental shelf
- 6.7. *[Medium]* Establish and/or enhance the capacity of sub-regional and national arrangements for implementing management and conservation measures
- 6.8. *[Medium]* Establish and/or strengthen the capacity of Regional Fisheries Bodies to cooperate with and build capacity among member States to implement the EBM/EAF approach, through National Action Plans (NAPs), data/information management and analysis and operationalisation of national intersectoral coordination and consultation mechanisms (incl. science-policy interfaces)
- 6.9. *[Medium]* Establish and/or strengthen and harmonize (sub-)regional initiatives to combat IUU by combining compliance measures (Monitoring Control and Surveillance plus awareness building among consumers and producers) with the provision of alternative livelihoods
- 6.10. *[Medium]* Develop and implement initiatives for sustainably enhancing livelihoods by identifying and building capacity for diversification, viable alternative sources of Decent Work and/or improved incomes, and creating added value for current catches
- 6.11. *[Short, Medium]* Develop and implement sub-regional EAF management plans for shared fishery resources along the Guianas-Brazil Shelf

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<sup>42</sup> Although efforts will be made to begin work on this action in the first five years, most of the effort will take place during the second 5 years with the expectation that the action will become completed in the medium-term.



### 3. TOWARDS THE IMPLEMENTATION OF THE CLME+ SAP

#### 3.1. A PROGRAMMATIC APPROACH TO SAP IMPLEMENTATION

The CLME+ SAP provides a roadmap towards improved governance and adaptive management of the marine ecosystems in the CLME+. The focus of the SAP for the next decade will be on shared living marine resources governance and management. It will initially bring together the organisations and people working towards sustainable fisheries and those working towards the protection of the marine environment. Building upon these initial results the scope will be expanded to integrate other key economic sectors such as tourism, shipping and oil and gas.

The CLME+ SAP has been developed as an “umbrella” Programme for Strategic Actions in the CLME+. By enhancing the cooperation and coordination across the region and among organisations, countries, sectors and people, it will establish the enabling conditions for substantial synergies among the many projects and initiatives that are taking place or being planned for this region.

SAP implementation should be programmatic and gradual. Once it has been widely endorsed in the region, the SAP will be used to guide the development and integration of regional, sub-regional and national projects and initiatives, as well as National Action Plans (NAPs) that can be embedded in and fit under this “Programmatic approach to SAP implementation”.

Different projects – possibly financed by a variety of sources and donors - can address different parts of the SAP. Full implementation of the many actions outlined in this document is not expected to be executed through a single project. Instead, existing or planned efforts that deal with particular aspects of the CLME+ SAP should be integrated and complemented by a number of well-coordinated new projects. For these new projects, (co-)financing by the donor community<sup>43</sup> and CLME+ countries and stakeholders should be sought and secured.

The CLME+ SAP can thus guide both countries and donors towards those actions where investments are most needed. At the same time, the integration of the multiple (donor) efforts under a single Strategic Action Programme is expected to substantially increase the rate of return on such investments, whether these occur at the regional, sub-regional, national or even local/grassroots level<sup>44</sup>.

In order for this approach to be successful, increased levels of complementarity and coordination among the different efforts that take place in and around the region must be achieved. SAP-related initiatives will also need to be coordinated and/or integrated with other regional, sub-regional and national programmes and actions that address other sectors falling under the broader umbrella of integrated ocean governance (such as shipping, tourism, etc.) or which focus on geographic areas adjacent to, and influenced by or influencing the CLME+<sup>45</sup>

The operationalization of key components of the Regional Governance Framework for shared living marine resources and the strengthening of associated key regional and sub-regional organisations and arrangements will be a high-priority task. It is expected that, with sufficient co-financing commitments by the countries and organisations of the region, it will be possible to advance several of these key

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<sup>43</sup> Given the magnitude, complexity and global relevance of the transboundary issues in the CLME+ region, especially during the first five years –and probably during the full 10 initial years of SAP implementation, substantial donor support will need to be sought.

<sup>44</sup> Grassroots initiatives, financed e.g. through the Global Environment Facility's Small Grants Programme (GEF - SGP), will substantially benefit from the enhanced broader governance framework in which they will become embedded.

<sup>45</sup> Linkages and synergies will be established in this context, e.g., between the CLME SAP and other GEF-funded projects such as the Gulf of Mexico LME and Amazon Basin Projects, and GEF-IWEco.

components of the CLME<sup>+</sup> SAP through renewed financial support from the Global Environment Facility (GEF).

### 3.2. FROM REGIONAL TO NATIONAL-LEVEL ACTIONS

It is further anticipated that during SAP implementation the regional and sub-regional organisations will work with their member countries on incorporating specific recommendations for Activities, Actions and/or Strategies into National Action Plans or NAPs that are compatible with the regional SAP. Thus, instead of having a single organisation assisting each country in conducting a full “CLME SAP-to-NAP” conversion exercise, the subsidiarity principle will be applied. With the regional SAP providing the broad reference framework for short- and medium-term actions, regional and sub regional organisations can identify and start collaborating with their member countries on those SAP activities which fall under their particular mandate, and for which conditions are favorable to achieving fast progress. SAP activities relevant to the mandates of these (sub)-regional organisations may thus be mainstreamed, as appropriate, in both their and their member States work plans. In this approach, implementation of actions at the national level need not wait until all the CLME+ strategies and actions have been formulated into a single, overarching NAP. Early examples are: the ongoing development of NAPs for the Protection of the Marine Environment from Land-based Activities undertaken by countries with the support from UNEP-GPA and UNEP-CEP, as well as the Land-Based Sources of Marine Pollution Protocol to the Cartagena Convention, the development of National Plans of Action (NPOAs) to combat IUU fishing under the Code of Conduct for Responsible Fisheries, and the Joint CRFM-OSPESCA Plan of Action signed in 2012 (see Annex 5).

### 3.3. FINANCIAL MECHANISM FOR THE IMPLEMENTATION OF THE SAP

Underpinned by the Resolution of the General Assembly of the United Nations: “*Towards the sustainable development of the Caribbean Sea for present and future generations*”<sup>46</sup> (“Caribbean Sea Initiative”), a call is being made through the CLME<sup>+</sup> SAP for international and region-wide support for the implementation of the SAP.

Financial requirements for implementation of the SAP will be determined as the specific activities under the different Strategic Actions are being defined. At that stage potential sources of funding will be identified for the implementation of the CLME<sup>+</sup> SAP, which are expected to include:

- GEF co-financing support for the overall coordination and for the execution of high-priority Strategies and Actions of the CLME<sup>+</sup> SAP
- Potential contributions from multi-lateral institutions and bi-lateral partners
- Commitments and financial contributions from the CLME<sup>+</sup> countries and regional stakeholders (including, as feasible, the private sector)

It should be noted that financial commitments from the participating countries will be critical to the long-term sustainability and continuation of the efforts undertaken. Such commitments will reflect the importance of fisheries and the protection of the marine environment in the regional political agenda. A sustainable financing mechanism for recurring costs of the Regional Governance Framework will need to be identified.

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<sup>46</sup> UN Resolution A/C.2/67/L.41 recognizes that the Caribbean Sea is an area of unique biodiversity and a highly fragile ecosystem that requires relevant regional and international development partners to work together to develop and implement regional initiatives to promote the sustainable conservation and management of coastal and marine resources.

## 4. MONITORING AND EVALUATION (M&E) OF SAP IMPLEMENTATION

### 4.1. MEASURING PROGRESS AND RESULTS: INDICATOR TYPES

The development and execution of a Monitoring and Evaluation (M&E) Plan is an essential component of the CLME<sup>+</sup> Strategic Action Programme.

The M&E Plan for CLME<sup>+</sup> SAP implementation will be composed of two elements: (a) frequent monitoring of the progress obtained with regard to the progress in the implementation of the Programme's Strategies, Actions and Activities; and (b) periodic evaluation of the Programme's performance in terms of outputs produced and outcomes achieved, as well as in terms of the cost-effectiveness of the actions. Both Monitoring and Evaluation will facilitate the adoption of an adaptive management approach to SAP implementation.

To ensure that progress in SAP implementation can be effectively monitored and evaluated, it is essential that early on in the SAP development and implementation phase, a full baseline is being established for all indicators that will be used to measure progress in the implementation of the SAP. This baseline will be the rubric against the future implementation of the SAP.

The following three types of M&E indicators for SAP implementation are typically used under GEF-cofunded projects<sup>47</sup>:

- **Process Indicators**
- **Stress Reduction Indicators**
- **Environmental Status Indicators**

The CLME<sup>+</sup> SAP M&E Plan will complement such indicator set with the following additional indicator types:

- **Socio-economic Indicators** (including indicators of social justice and human well being)
- **Indicators related to architecture and performance of governance arrangements and networks**<sup>48</sup>

Environmental and socio-economic status indicators will track progress towards achieving the CLME<sup>+</sup> SAP Ecosystem Quality Objectives (EcoQOs) and Societal Benefits Objectives (SBOs), respectively. Stress reduction indicators will typically reflect how direct causes of environmental or ecosystem stress (e.g. direct causes of reduced fish stocks such as illegal or over-fishing, or of physical damage to coral reefs such as harmful fishing practices) have been reduced or eliminated. However, strategic actions under the SAP will often be directed towards addressing the root causes of the environmental and associated societal problems (see Section 1.4). It will therefore become necessary to include process indicators in the M&E indicator set, as it will take considerable amounts of time before structural changes become reflected in measurable reductions of stress at the level of the CLME<sup>+</sup>, or in measurable changes in

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<sup>47</sup> For more detailed information on the 3 key GEF indicators for monitoring and evaluation of progress and results in International Waters projects, please refer to: [http://iwlearn.net/publications/misc/duda\\_indicator.pdf/view](http://iwlearn.net/publications/misc/duda_indicator.pdf/view)

<sup>48</sup> For more detailed information on the governance indicators, reference is made to: Mahon, R., L. Fanning, R. and P. McConney. 2012. Governance assessment methodology for CLME pilot projects and case studies. Centre for Resource Management and Environmental Studies, University of the West Indies, Cave Hill Campus, Barbados, CERMES Technical Report No 53 (English): 20p. (available from: [www.clmeproject.org](http://www.clmeproject.org))

environmental and socio-economic conditions. In the mean time, process indicators will be reflective of the progress being made towards implementing actions and activities required for such purposes.

A hypothetical example of process, stress reduction and socio-economic and environmental indicators for a selected action of the CLME<sup>+</sup> SAP is given in Table 3. A preliminary, indicative basic set of selected key indicators linking the different CLME<sup>+</sup> SAP Strategies to expected outcomes under the GEF's International Waters Focal Area Strategy is included in Annex 7.

**Table 3 Example of possible M&E framework for Strategy 4, Action 3**

| CLME SAP Action                                                                                                                                                                                                                                                                                                                                            | Indicator Type        | Baseline                                                                                                                                                  | Timeline                                                                                                                                                                        |                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                                                                                                           | Short-term                                                                                                                                                                      | Medium Term                                                                                                                                                                      |
| (Strategy 4, Action 3)<br><br>Strengthen and harmonize<br><br>(sub-)regional and/or fisheries-specific <sup>49</sup> initiatives to combat IUU<br><br>by combining compliance measures<br><br>(Monitoring Control and Surveillance<br><br>plus awareness building among consumers & producers)<br><br>with the provision of<br><br>alternative livelihoods | Process               | number of viable legal alternatives to reef fisheries in coastal communities = <b>X</b>                                                                   | number of viable legal alternatives to reef fisheries in coastal communities = <b>Y</b>                                                                                         | number of viable legal alternatives to reef fisheries in coastal communities = <b>Z</b>                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                            | Stress Reduction      | <ul style="list-style-type: none"> <li>Registered incidences of IUU = <b>Y</b></li> <li>Total fishing effort for overfished species = <b>Y</b></li> </ul> | <ul style="list-style-type: none"> <li>Registered incidences of IUU reduced by <b>X</b> %</li> <li>Total fishing effort for overfished species reduced by <b>X</b> %</li> </ul> | <ul style="list-style-type: none"> <li>Registered incidences of IUU reduced by <b>Z</b> %</li> <li>Total annual catch not higher than Maximum Sustainable Yield (MSY)</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                            | Socio-Economic Status | Number of households affected by exclusion from the fishery and exposed to reduced income and well-being = <b>X</b>                                       | Proportion of households affected by exclusion from the fishery benefiting from alternative livelihoods versus those experiencing reduced income and well-being = <b>Y</b>      | Proportion of households affected by exclusion from the fishery benefiting from alternative livelihoods versus those experiencing reduced income and well-being = <b>Z</b>       |
|                                                                                                                                                                                                                                                                                                                                                            | Ecosystem Status      | Fish stock status: overfished                                                                                                                             | Overfishing level reduced by <b>X</b> %                                                                                                                                         | Fish stock optimally exploited                                                                                                                                                   |

<sup>49</sup> With application of subsidiarity principle

## 4.2. REGIONAL ENVIRONMENTAL MONITORING PROGRAMME (REMP)

The development of a prototype “Regional Environmental/Ecosystem Monitoring Programme” (REMP) has been promoted under the CLME<sup>+</sup> Project through the execution of related pilot activities by IOC of UNESCO. The Regional Environmental Monitoring Programme is to be further advanced in the context of the implementation of the CLME<sup>+</sup> SAP and its M&E procedures. It is to be based on the principles and indicator types described under Section 4.1, and aligned with the Strategies and Actions detailed under Section 2.3. This way, it will allow for the monitoring and evaluation of progress in the implementation of the priority actions outlined in this document.



## **ANNEXES**



## ANNEX 1 – KEY MANAGEMENT PRINCIPLES

### KEY MANAGEMENT PRINCIPLES

The CLME<sup>+</sup> States express a common desire for the sustainable management of their shared living marine resources and biodiversity, and recognize their role and responsibility in conserving the global value and associated regional benefits of these resources. The States will consider and take into account, where appropriate, the following principles and values when further developing and implementing the CLME<sup>+</sup> SAP, recognizing that these principles may be already adopted in some States and should be further promoted.

An **ecosystem-based approach** to fisheries management should be applied, which maintains key characteristics of ecosystems in a way that sustains species and ecological processes while supporting human use for economic or social purposes.

The principle of **sustainable development** should be applied such that there is a prudent and rational utilization of living resources and the preservation of the rights of future generations to a viable environment.

The principle of **adaptive management** should be applied such that there is a systematic, rigorous approach for deliberately learning from management actions with the intent to improve subsequent management policy or practice.

The principles of **good governance** should be applied, including participation, the rule of law, transparency, accountability, responsiveness, consensus building, equity, effectiveness and efficiency.

The principle of **subsidiarity** should be applied.

**Risk management** should be applied:

A **precautionary approach** should be applied, such that measures shall be taken when there are reasonable grounds for concern that any activity may increase the potential hazards to human health, harm living resources or ecosystems, damage amenities, or interfere with other legitimate uses of the CLME<sup>+</sup>, even when there is no conclusive evidence of a causal relationship between the activity and the effects; and by virtue of which, greater caution is required when information, including scientific information, is uncertain, unreliable or inadequate.

The principle of **anticipatory action** should be applied, such that contingency planning, environmental impact assessment and strategic impact assessment (involving the assessment of the environmental and social consequences of governmental policies, programmes and plans) shall be undertaken in the future development in the region.

The principle of **preventative action** should be applied, such that timely action shall be taken to alert the responsible and relevant authorities of likely impacts and to address the actual or potential causes of adverse impacts on the environment, before they occur.

The following criteria should be mainstreamed in the development of all relevant policies, programmes, sectoral plans and actions: (i) solutions must **increase the resilience of societies and ecosystems to climate change**; and (ii) solutions must be **robust** in the context of the **uncertainty associated to climate change**

The principles of **public participation** and transparency should be applied, such that all stakeholders, including communities, individuals and concerned organisations shall be given the opportunity to participate, at the appropriate level, in decision-making and management processes that affect the marine environment of the CLME<sup>+</sup>. This includes providing access to information concerning the environment that is held by public authorities, together with effective access to judicial and administrative proceedings to enable all stakeholders to exercise their rights effectively. Public authorities shall widely disseminate information on the work proposed and undertaken to monitor, protect and improve the state of CLME<sup>+</sup>.



## **ANNEX 2 – SAP STRATEGIES & ACTIONS, WITH TYPOLOGY AND TIMELINE**

| STRATEGY 1<br>Enhance the regional governance arrangements for the protection of the marine environment |         |                                                                                                                                                                                                                                                                                                                                                                   | Time Frame              |                           |
|---------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|
|                                                                                                         |         |                                                                                                                                                                                                                                                                                                                                                                   | Short-Term<br>(0-5 yrs) | Medium-Term<br>(6-10 yrs) |
| A<br>C<br>T<br>I<br>O<br>N<br>S                                                                         | 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 for the involvement of civil society in the implementation of the EBM/EAF approach (IGOs, NGOs, CBOs, private sector...)                                                                                                                                 |                         |                           |
|                                                                                                         | 1.6(B)  | 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                                                                                                                                                          | enhance capacity        | enhance capacity          |
|                                                                                                         |         |                                                                                                                                                                                                                                                                                                                                                                   | effectively mainstream  | effectively mainstream    |
|                                                                                                         | 1.7(B)  | 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                                                                                                                                           | enhance capacity        | enhance capacity          |
|                                                                                                         |         |                                                                                                                                                                                                                                                                                                                                                                   | effectively mainstream  | effectively mainstream    |
|                                                                                                         | 1.8(B)  | Establish and/or increase the capacity of (sub-)regional organizations and countries for integrating the management of terrestrial drainage basins with the management of the marine recipient basins and coastal 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

|                           |                                           |                         |                                               |
|---------------------------|-------------------------------------------|-------------------------|-----------------------------------------------|
| TYPOLOGY 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                   |

| STRATEGY 2<br>Enhance the regional governance arrangements for sustainable fisheries |          |                                                                                                                                                                                                                                                                                                                                                                                                                       | Time Frame              |                           |
|--------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|
|                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                       | Short-Term<br>(0-5 yrs) | Medium-Term<br>(6-10 yrs) |
| A<br>C<br>T<br>I<br>O<br>N<br>S                                                      | 2.1 (A)  | Establish an interim arrangement for sustainable fisheries coordinated by FAO-WECAFC and including CRFM; OSPESCA; and OECS                                                                                                                                                                                                                                                                                            |                         |                           |
|                                                                                      | 2.2 (A)  | Review, and reform WECAFC as needed to clarify and strengthen its mandate and relationships with Regional Fisheries Bodies such as CRFM, OSPESCA and ICCAT                                                                                                                                                                                                                                                            |                         |                           |
|                                                                                      | 2.3 (A)  | Evaluate the needs and the options, agree on the mandate & operationalise a Regional Fisheries Management Organisation (RFMO) or alternative arrangement for the management of shared living marine resources (as applicable*)                                                                                                                                                                                        | evaluate & agree*       |                           |
|                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                       |                         | operationalise*           |
|                                                                                      | 2.4 (B)  | Establish and/or enhance the capacity of the regional, sub-regional and national governance arrangements for the broader involvement of society in the implementation of the EBM/EAF approach (IGOs, NGOs, CBOs, private sector...)                                                                                                                                                                                   |                         |                           |
|                                                                                      | 2.5 (B)  | Establish and/or enhance the capacity of the regional, sub-regional and national fisheries institutions to develop and implement harmonized management and conservation measures, with special focus on Illegal, Unreported and Unregulated Fishing (IUU) and Monitoring, Control & Surveillance (MCS)                                                                                                                |                         |                           |
|                                                                                      | 2.6 (C)  | Coordinate the development and implementation of fisheries-specific initiatives for IUU and MCS                                                                                                                                                                                                                                                                                                                       |                         |                           |
|                                                                                      | 2.7 (C)  | Coordinate the development and implementation of regional, sub-regional and national initiatives for sustainable small scale fisheries (including capacity building and pilot initiatives)                                                                                                                                                                                                                            |                         |                           |
|                                                                                      | 2.8 (C)  | Coordinate the development and implementation of regional, sub-regional and national initiatives to improve welfare and livelihoods through the provision of Decent Work(including through the development of alternative livelihoods, capacity building and pilot initiatives)                                                                                                                                       |                         |                           |
|                                                                                      | 2.9 (C)  | Coordinate the development and implementation of regional, sub-regional and national initiatives to enhance safety and reduce risk factors (including at sea) for fishers, with particular focus on risk management                                                                                                                                                                                                   |                         |                           |
|                                                                                      | 2.10 (B) | Establish and/or enhance the capacity to manage knowledge and to mainstream findings from monitoring, science and research in regional, sub-regional and national decision-making and policy development for sustainable fisheries                                                                                                                                                                                    | enhance capacity        | enhance capacity          |
|                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                       | effectively mainstream  | effectively mainstream    |
|                                                                                      | 2.11 (B) | Establish and/or enhance the capacity to undertake and mainstream valuation of ecosystem goods and services in regional, sub-regional and national decision-making and policy development for sustainable fisheries                                                                                                                                                                                                   | enhance capacity        | enhance capacity          |
|                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                       | effectively mainstream  | effectively mainstream    |
|                                                                                      | 2.12 (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 sustainable use and conservation of the marine environment and associated living resources (including the support to update and harmonize national legislation and regulations) |                         |                           |
|                                                                                      | 2.13 (B) | Establish and/or enhance the data and information quality and collection and management capacity of the regional, sub-regional and national fisheries governance arrangements, including through the establishment of public-private partnerships                                                                                                                                                                     |                         |                           |
|                                                                                      | 2.14 (B) | Establish and/or enhance the capacity of the regional, sub-regional and national fisheries governance arrangements for the monitoring, assessment & reporting on the state of fisheries                                                                                                                                                                                                                               |                         |                           |

\*as applicable

| <b>STRATEGY 3</b><br><b>Establish and operationalise a regional policy coordination mechanism for ocean governance, with initial focus on shared Living Marine Resources</b> |         |                                                                                                                                                                                                                                                                                                               | <b>Time Frame</b>               |                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|
|                                                                                                                                                                              |         |                                                                                                                                                                                                                                                                                                               | <b>Short-Term<br/>(0-5 yrs)</b> | <b>Medium-Term<br/>(6-10 yrs)</b> |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                                                 | 3.1 (A) | Decide upon and establish an interim coordination mechanism amongst the regional sub-arrangements for sustainable fisheries and for the protection of the marine environment                                                                                                                                  |                                 |                                   |
|                                                                                                                                                                              | 3.2 (A) | Evaluate all options and propose a permanent policy coordination mechanism with a clear mandate which is financially sustainable, geographically inclusive and politically acceptable and which takes into account the principle of subsidiarity (this may include the identification of appropriate reforms) |                                 |                                   |
|                                                                                                                                                                              | 3.3 (A) | Adopt and operationalise the permanent regional policy coordination mechanism for shared Living Marine Resources (sLMR) governance                                                                                                                                                                            | adopt                           |                                   |
|                                                                                                                                                                              | 3.4 (A) | Develop and adopt a regional policy for data and information harmonization and sharing                                                                                                                                                                                                                        | develop                         |                                   |
|                                                                                                                                                                              |         |                                                                                                                                                                                                                                                                                                               | adopt                           | adopt                             |
|                                                                                                                                                                              | 3.5 (C) | Develop and coordinate integrated and sectoral research strategies in support of the implementation of broader ocean governance in the region, with a short and medium term focus on sLMR management                                                                                                          |                                 |                                   |
|                                                                                                                                                                              | 3.6 (C) | Develop and coordinate integrated and sectoral sustainable financing strategies for the cost-effective implementation of broader ocean governance in the region, with a short and medium term focus on sLMR governance                                                                                        |                                 |                                   |
|                                                                                                                                                                              | 3.7 (B) | Facilitate the preparation of data and information products and the uptake of monitoring and research outputs by (sub)regional and national science-policy interfaces                                                                                                                                         |                                 |                                   |

\*with full application of subsidiarity principle, in line with/as required by the other strategies

| <b>STRATEGY 4</b><br><b>Enhance the governance arrangements</b><br><b>for ecosystem-based management for reefs and associated ecosystems</b><br><b>(e.g. sea grass beds, reef slopes, mangroves and coastal lagoons)</b> |         |                                                                                                                                                                                                                                                                                                                                                           | <b>Time Frame</b>              |                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                                                                                                          |         |                                                                                                                                                                                                                                                                                                                                                           | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                                                                                             | 4.1 (A) | Strengthen the formal cooperation between OSPESCA and CCAD for implementing the EBM/EAF approach                                                                                                                                                                                                                                                          |                                |                                  |
|                                                                                                                                                                                                                          | 4.2 (A) | Establish and/or enhance the cooperation between environmental, fisheries and other relevant agencies within CARICOM for implementing the EBM/EAF approach                                                                                                                                                                                                |                                |                                  |
|                                                                                                                                                                                                                          | 4.3 (C) | Establish, strengthen and harmonize, (sub-)regional and/or fisheries-specific initiatives to combat IUU fishing by combining compliance measures (Monitoring Control and Surveillance plus awareness building among consumers & producers) with the provision of alternative livelihoods                                                                  |                                |                                  |
|                                                                                                                                                                                                                          | 4.4 (C) | Coordinate and enhance (sub-)regional and national efforts for the conservation of the biodiversity of reef and associated habitats, including through the strengthening of networks of marine protected areas (MPAs), and initiatives for sustainable reef fisheries* such as programmes dealing with alien invasive species                             |                                |                                  |
|                                                                                                                                                                                                                          | 4.5 (C) | Develop and implement initiatives for sustainable livelihoods by building capacity for diversification, fostering and facilitating viable alternative sources of Decent Work and/or improved incomes, and creating added value (e.g. through marketing and sales)                                                                                         |                                |                                  |
|                                                                                                                                                                                                                          | 4.6 (B) | Establish and/or enhance the institutional structure and capacity of (sub-)regional and national arrangements for implementing management and conservation measures for reef ecosystems                                                                                                                                                                   |                                |                                  |
|                                                                                                                                                                                                                          | 4.7 (B) | Strengthen the capacity of Regional Fisheries Bodies to engage and build capacity among member States to implement the EBM/EAF approach, through National Action Plans (NAPs), data/information management and analysis, and operationalisation of national intersectoral coordination and consultation mechanisms that include science-policy interfaces |                                |                                  |
|                                                                                                                                                                                                                          | 4.8 (B) | Operationalise and strengthen interlinked Decision Support Systems (DSSs) for the protection of reefs and associated ecosystems and for the sustainable management of associated living marine resources                                                                                                                                                  |                                |                                  |

\*including such habitats on the Guianas-Brazil continental shelf

| <b>STRATEGY 4A</b><br><b>Enhance the governance arrangements</b><br><b>for implementing an ecosystem approach for spiny lobster fisheries</b> |          |                                                                                                                                                                                                                                                                                         | <b>Time Frame</b>              |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                               |          |                                                                                                                                                                                                                                                                                         | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                  | 4A.1 (A) | Establish, strengthen, and coordinate arrangements between the FAO-WECAFC, OSPESCA, UNEP-SPAW, and CRFM for harmonizing the spiny lobster fishery governance and management throughout the CLME <sup>+</sup> region                                                                     |                                |                                  |
|                                                                                                                                               | 4A.2 (A) | Evaluate and expand, as applicable, the geographic scope of the governance arrangement operated by OSPESCA, taking into consideration both the perspectives of species range (ecosystem approach) and of common markets                                                                 |                                |                                  |
|                                                                                                                                               | 4A.3 (A) | Strengthen and achieve full implementation of policy cycles under the existing sub-regional governance arrangements for the management of the spiny lobster fisheries, including linkages with organizations working on the environmental protection of reefs and associated ecosystems |                                |                                  |
|                                                                                                                                               | 4A.4 (A) | Operationalise and strengthen a DSS for the spiny lobster fisheries (including linkages to the DSS for the protection and sustainable management of reefs and associated living marine resources)                                                                                       |                                |                                  |

| <b>STRATEGY 4B</b><br><b>Enhance the governance arrangements</b><br><b>for implementing an ecosystem approach for queen conch fisheries</b> |          |                                                                                                                                                                                                                                                                                         | <b>Time Frame</b>              |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                             |          |                                                                                                                                                                                                                                                                                         | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                | 4B.1 (A) | Establish, strengthen and coordinate the arrangements for the management and conservation of queen conch between all relevant organizations such as CFMC, FAO-WECAFC, CRFM, UNEP-SPAW, OSPESCA and CITES                                                                                |                                |                                  |
|                                                                                                                                             | 4B.2 (A) | Develop and adopt a regional framework and management and conservation plan for the queen conch with regional-level harmonized regulations (including trade issues)                                                                                                                     |                                |                                  |
|                                                                                                                                             | 4B.3 (C) | Develop, adopt and implement the sub-regional agreements for the management of the queen conch resource                                                                                                                                                                                 | develop & adopt                |                                  |
|                                                                                                                                             |          |                                                                                                                                                                                                                                                                                         | implement                      | implement                        |
|                                                                                                                                             | 4B.4 (A) | Strengthen and achieve full implementation of policy cycles under the existing sub-regional governance arrangements for the management of queen conch fisheries, including linkages with organizations working on the environmental protection of reefs and associated ecosystems (EAF) |                                |                                  |
|                                                                                                                                             | 4B.5 (A) | Operationalise and strengthen a DSS for the queen conch fisheries (including linkages to the DSS for the protection and sustainable management of reefs and associated living marine resources)                                                                                         |                                |                                  |

| <b>STRATEGY 5</b><br><b>Enhance the governance arrangements</b><br><b>for implementing an ecosystem approach for pelagic fisheries</b> |         |                                                                                                                                                                                                                                                                                                                                                                                | <b>Time Frame</b>              |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                                | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                           | 5.1 (A) | Establish linkages between the sub-regional governance arrangements for the different types of pelagic fisheries in order to more fully implement the ecosystem approach (e.g.: prey–predator relationships)                                                                                                                                                                   |                                |                                  |
|                                                                                                                                        | 5.2 (C) | Establish, strengthen and harmonise (sub-)regional and/or fisheries-specific initiatives to combat IUU by combining compliance measures (Monitoring Control and Surveillance plus awareness building among consumers and producers) with the provision of alternative livelihoods                                                                                              |                                |                                  |
|                                                                                                                                        | 5.3 (C) | Develop and implement initiatives for sustainable livelihoods by building capacity for diversification, fostering and facilitating viable alternative sources of Decent Work and/or improved incomes, and creating added value                                                                                                                                                 |                                |                                  |
|                                                                                                                                        | 5.4 (B) | Establish and/or enhance the capacity of regional, sub-regional and national arrangements for implementing management measures                                                                                                                                                                                                                                                 |                                |                                  |
|                                                                                                                                        | 5.5 (B) | Strengthen the capacity of Regional Fisheries Bodies capacity to cooperate with and build capacity among member States to implement the EBM/EAF approach, through National Action Plans (NAPs), data/information management and analysis capacity, and operationalisation of national intersectoral coordination and consultation mechanisms (incl. science-policy interfaces) |                                |                                  |
|                                                                                                                                        | 5.6 (A) | Operationalise and further enhance an integrated, sub-regional decision support system (DSS) for the pelagic fisheries (linking large pelagics and flyingfish fisheries, and with additional linkages to DSSs for ecosystem/environmental protection, as relevant)                                                                                                             |                                |                                  |

| <b>STRATEGY 5A</b><br><b>Enhance the governance arrangements</b><br><b>for implementing the ecosystem approach for flyingfish fisheries</b> |          |                                                                                                                                                                                                               | <b>Time Frame</b>              |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                             |          |                                                                                                                                                                                                               | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                | 5A.1 (A) | Strengthen the FAO-WECAFC and CRFM sub-regional arrangement for the assessment and management of the flyingfish fisheries including the establishment of a decision-making capacity for management            |                                |                                  |
|                                                                                                                                             | 5A.2 (A) | Establish and operationalise a formal agreement between the CRFM and France on the management of the flyingfish fisheries                                                                                     |                                |                                  |
|                                                                                                                                             | 5A.3 (A) | Operationalise and strengthen an integrated, sub-regional decision support system (DSS) for the flyingfish fisheries (in coordination with the large pelagics arrangements)                                   |                                |                                  |
|                                                                                                                                             | 5A.4 (B) | Strengthen the FAO-WECAFC and CRFM capacity to develop, adopt and implement management and conservation measures for the flyingfish fisheries (full policy cycle implementation)                              |                                |                                  |
|                                                                                                                                             | 5A.5 (C) | Implement the CRFM/FAO-WECAFC Sub-Regional Management Plan for flyingfish fisheries in the Eastern Caribbean                                                                                                  |                                |                                  |
|                                                                                                                                             | 5A.6 (C) | Develop and implement education and awareness building initiatives to improve understanding and enhanced stakeholder commitment and participation in planning and decision-making in the flyingfish fisheries |                                |                                  |

| <b>STRATEGY 5B</b><br><b>Enhance the governance arrangements</b><br><b>for implementing an ecosystem approach for large pelagics fisheries</b> |          |                                                                                                                                                                            | <b>Time Frame</b>              |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                                |          |                                                                                                                                                                            | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                   | 5B.1 (A) | Establish key agreements and operationalise arrangements among organizations with a stake in large pelagics fisheries in order to implement EAF                            |                                |                                  |
|                                                                                                                                                | 5B.2 (B) | Strengthen the capacity of the (sub-)regional organizations and enhance the full implementation of the large pelagics fisheries policy cycle                               |                                |                                  |
|                                                                                                                                                | 5B.3 (A) | Strengthen the Region's position in the ICCAT decision making process through enhanced intra-regional coordination and cooperation                                         |                                |                                  |
|                                                                                                                                                | 5B.4 (A) | Operationalise and strengthen an integrated, sub-regional decision support system (DSS) for the large pelagic fisheries (in coordination with the flyingfish arrangements) |                                |                                  |

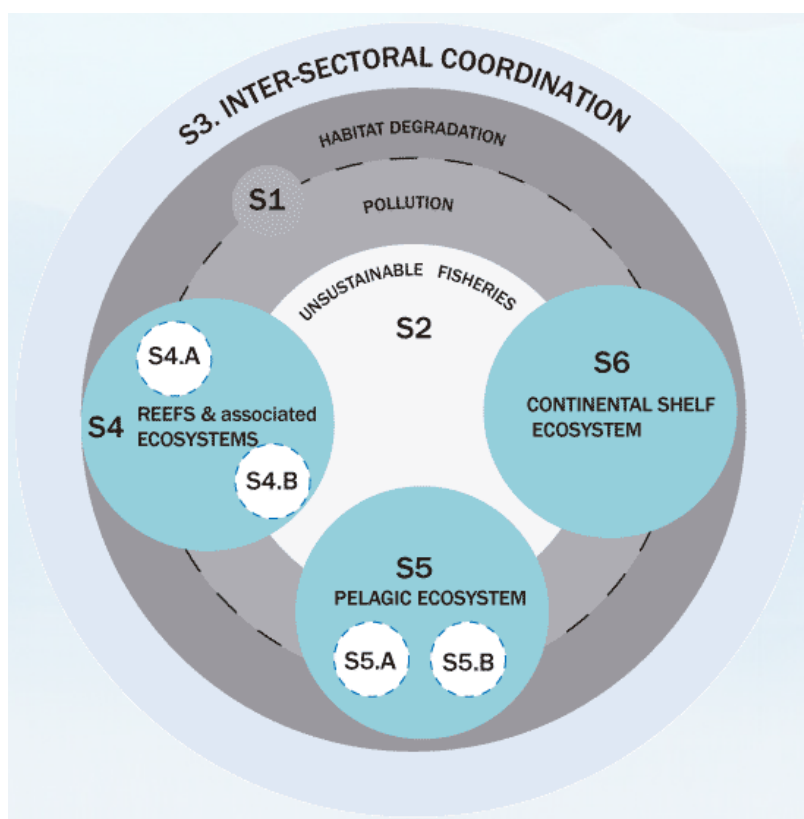
| <b>STRATEGY 6</b><br><i>Implement EBM/EAF of the Guianas-Brazil continental shelf with special reference to the shrimp and groundfish fishery</i> |          |                                                                                                                                                                                                                                                                                                                                                                           | <b>Time Frame</b>              |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
|                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                           | <b>Short-Term</b><br>(0-5 yrs) | <b>Medium-Term</b><br>(6-10 yrs) |
| <b>A<br/>C<br/>T<br/>I<br/>O<br/>N<br/>S</b>                                                                                                      | 6.1 (A)  | Strengthen the FAO-WECAFC-CRFM sub-regional arrangement for the management of the shrimp and groundfish fisheries, and establish a decision-making capacity for policy formulation and management                                                                                                                                                                         |                                |                                  |
|                                                                                                                                                   | 6.2 (A)  | Explore and establish a sub-regional arrangement to address both marine and land-based sources of pollution within the context of the expanded framework for the protection of the marine environment built under Strategy 1                                                                                                                                              | explore                        |                                  |
|                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                           | establish                      | establish                        |
|                                                                                                                                                   | 6.3 (A)  | Explore and establish a sub-regional arrangement to address the issue of coastal habitat degradation and destruction within the context of the expanded framework for the protection of the marine environment built under Strategy 1                                                                                                                                     | explore                        |                                  |
|                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                           | establish                      | establish                        |
|                                                                                                                                                   | 6.4 (A)  | Explore and establish a sub-regional arrangement to address the issue of insecurity for fishers (person and property) e.g. cases of armed robbery and assault                                                                                                                                                                                                             | explore & establish            |                                  |
|                                                                                                                                                   | 6.5 (A)  | Explore and establish the most appropriate mechanism for integrating the four sub regional arrangements                                                                                                                                                                                                                                                                   | explore                        | establish                        |
|                                                                                                                                                   | 6.6 (A)  | Operationalise and further enhance an interlinked, sub-regional decision support systems (DSS) for sustainable fisheries and environmental protection in the Guianas-Brazil continental shelf                                                                                                                                                                             |                                |                                  |
|                                                                                                                                                   | 6.7 (B)  | Establish and/or the capacity of sub-regional and national arrangements for implementing management and conservation measures                                                                                                                                                                                                                                             |                                |                                  |
|                                                                                                                                                   | 6.8 (B)  | Establish and/or the capacity of Regional Fisheries Bodies to cooperate with and build capacity among member States to implement the EBM/EAF approach, through National Action Plans (NAPs), data/information management & analysis capacity, and operationalisation of national intersectoral coordination and consultation mechanisms (incl. science-policy interfaces) |                                |                                  |
|                                                                                                                                                   | 6.9 (B)  | Establish and/or strengthen and harmonize (sub-)regional initiatives to combat IUU by combining compliance measures (Monitoring Control and Surveillance plus awareness building among consumers and producers) with the provision of alternative livelihoods                                                                                                             |                                |                                  |
|                                                                                                                                                   | 6.10 (B) | Develop and implement initiatives for sustainably enhancing livelihoods by identifying and building capacity for diversification, viable alternative sources of Decent Work and/or improved incomes, and creating added value for current catches                                                                                                                         |                                |                                  |
|                                                                                                                                                   | 6.11 (B) | Develop and implement sub-regional EAF management plans for shared fishery resources along the Guianas-Brazil Shelf                                                                                                                                                                                                                                                       |                                |                                  |



## ANNEX 3 – SCHEMATIC REPRESENTATION OF THE 6 SAP STRATEGIES AND TECHNICAL PROPOSAL (CERMES) FOR THE REGIONAL GOVERNANCE FRAMEWORK

In the below figure, the outer circle represents the **CLME<sup>+</sup> Region**, i.e. the area covered by the Caribbean and North Brazil Shelf Large Marine Ecosystems. Within this region, 3 distinct key ecosystem types can be recognized: the **Continental Shelf**, **Pelagic** and **Reefs and associated Ecosystem types**. Each of these ecosystem types is represented in the figure by one of the smaller, blue “inner circles”.

The 3 priority transboundary problems of **habitat degradation**, **pollution** and **unsustainable fisheries** occur throughout the wider CLME<sup>+</sup> region, and affect each of the 3 key ecosystem types. These 3 priority problems are represented in the figure by the 3 concentric circles (from light to dark grey).

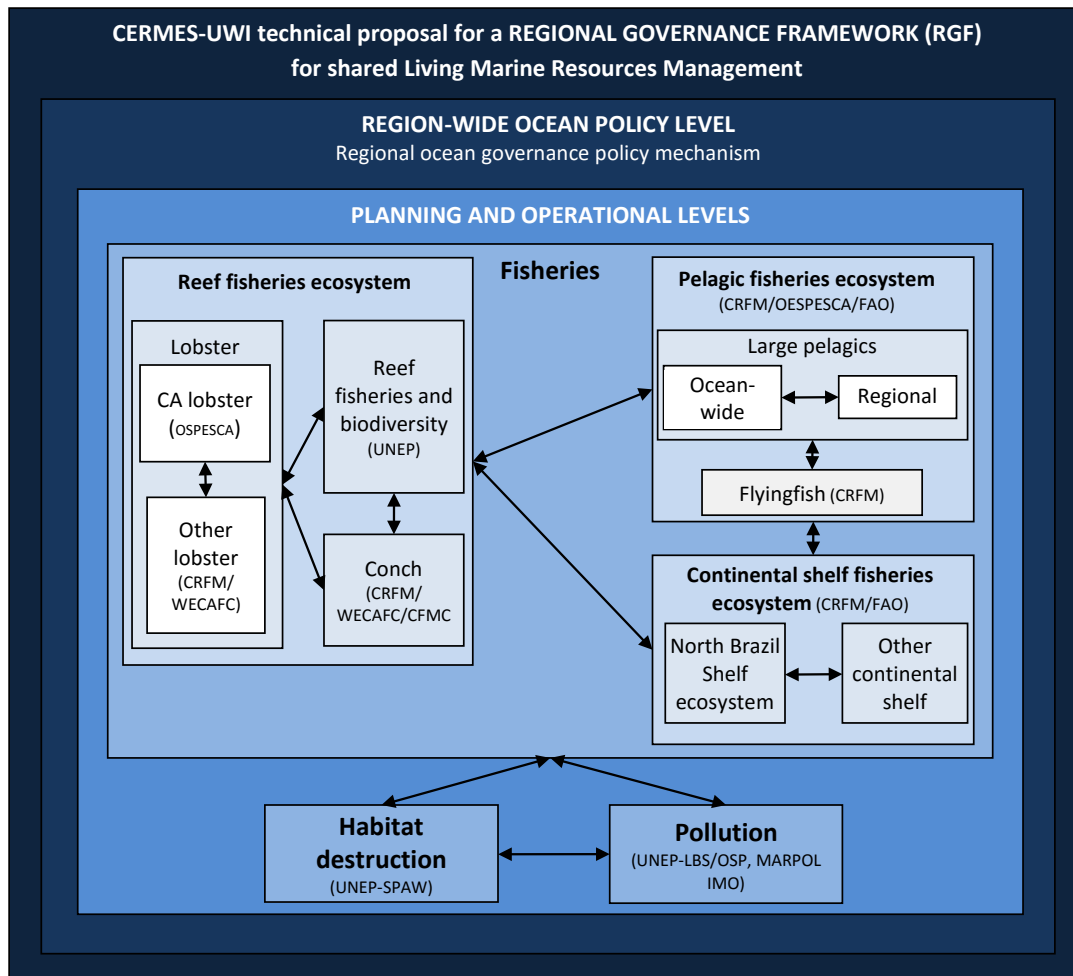


**SCHEME 1**  
**The 6 CLME<sup>+</sup> SAP Strategies and 4 Sub-strategies**

As the priority problems occur throughout the wider CLME<sup>+</sup> Region, the SAP proposes 3 regional-level Strategies to deal with these 3 priority transboundary problems:

- o **Strategy 1** (S1 in the scheme) aims at **protecting the marine environment** in the CLME<sup>+</sup> in order to ensure sustainable provision of goods and services from shared living marine resources. For this purpose, under Strategy 1 Actions will be implemented to deal with the key transboundary problems of **pollution** and **habitat degradation** in an integrated way.
- o **Strategy 2** (S2 in the scheme) aims at achieving **sustainable fisheries**, and thus deals with the priority problem posed by the unsustainability of existing fisheries and fishery practices.

- o However, as the 3 priority problems mutually influence each other, a third regional-level Strategy is required to ensure that both Strategy 1 and Strategy 2 are coordinated and mutually synergetic: **Strategy 3** (S3 in the scheme) aims at establishing and implementing a **regional (inter-sectoral) ocean policy coordination mechanism**.
- o **Strategies 4, 5 and 6** (S4, 5 and 6 in the scheme) will help with the implementation of **Ecosystem-Based Management (EBM)** and the **Ecosystem Approach to Fisheries** in the **3 key ecosystem types**, and thus need to deal with all 3 priority problems in an integrated way. This will be facilitated by the regional-level work conducted under Strategy 1 and 2.
- o **Strategies 4A and 4B, and 5A and 5B** will facilitate the implementation of EAF for 4 of the **key fisheries** in the CLME+: **spiny lobster, queen conch, large pelagic and flyingfish**. They will benefit from the enabling conditions (including improved coordination among organisations) established through Strategies 4 and 5.



**SCHEME 2**  
**A diagrammatic representation of the nested, multi-scale level nature of the proposed  
Regional Governance Framework for living marine resources in the WCR  
(technical proposal prepared by CERMES-UWI for the CLME Project)**

Scheme 2 illustrates the nestedness of the proposed multi-level governance arrangements for shared Living Marine Resources in the CLME+, and points to some of the key regional and sub-regional organizations with a mandate in dealing with the 3 priority problems at different spatial scales. More details on the proposed regional governance framework can be found in the reports from CERMES available through the CLME website: [www.clmeproject.org](http://www.clmeproject.org)

## **ANNEX 4 –BELIZE DECLARATION**



## **BELIZE DECLARATION**

**ON CARIBBEAN REGIONAL FISHERIES  
MECHANISM (CRFM) AND THE CENTRAL  
AMERICA FISHERIES AND AQUACULTURE  
ORGANIZATION (OSPESCA) COOPERATION  
FOR SUSTAINABLE DEVELOPMENT OF FISHERIES  
AND AQUACULTURE RESOURCES**

**Belize City, Belize, 3-4 September 2012**



## **BELIZE DECLARATION ON CRFM-OSPESCA COOPERATION FOR SUSTAINABLE DEVELOPMENT OF FISHERIES AND AQUACULTURE RESOURCES**

Belize City, Belize, 3-4 September 2012

The Ministers responsible for Fisheries and Aquaculture of the Caribbean Regional Fisheries Mechanism (CRFM) of the Caribbean Community (CARICOM), and the Central American Fisheries and Aquaculture Organisation (OSPESCA) of the Central American Integration System (SICA);

### **CONSIDERING**

**That** the United Nations Convention on the Law of the Sea of 10 December 1982 provides the overall legal framework for sustainable development, conservation and management of living marine resources and protection and preservation of the marine environment;

**That** the Food and Agriculture Organisation (FAO) Code of Conduct for Responsible Fisheries, the Rio Declaration on Environment and Development, the Johannesburg Declaration on Sustainable Development, and the Plan of Implementation of the World Summit on Sustainable Development, the Rio+20 Declaration, and United Nations General Assembly Resolution 65/155 of 20 December 2010, lay down the principles and commitments necessary for sustainable use and responsible management of living marine resources and ecosystems of the region;

**That** the Caribbean Sea is the common heritage of the Caribbean countries, many of which are members of CARICOM and SICA, and is important to food and nutrition security, employment, income, wealth, poverty alleviation and stability of coastal communities for present and future generations;

**That** at the Third CARICOM-SICA Summit of Heads of State and Government held in San Salvador, El Salvador on 19 August 2011, the SICA and CARICOM Secretariats were instructed, through the CRFM and OSPESCA, to formulate and develop, as soon as possible, a joint action plan for the responsible management of migratory fish stocks of the Caribbean Sea that consider, among others, the progressive incorporation of CRFM countries into the regulatory framework for the lobster fishery in the SICA countries;

**That** at that Summit, it was also agreed to promote, "within the CRFM, the monitoring, control and surveillance to prevent and eradicate illegal, unreported, and unregulated fishing, and explore new options of production like aquaculture"; and participation in the first high level ministerial meeting between the CRFM and OSPESCA "aimed at strengthening collaboration between both regional fisheries organizations to improve conservation, management and sustainable development of the living marine resources of the Caribbean Sea".

#### **DECLARE**

1. Reaffirm our commitment to the principles of the Food and Agriculture Organisation (FAO), Code of Conduct for Responsible Fisheries.
2. Express the shared desire to build and consolidate the foundations for integrated management and sustainable use of the living marine resources of the Caribbean Sea.
3. Urge States to give prompt consideration to ratifying, accepting, approving or acceding to relevant international fisheries agreements, such as, the 1995 Agreement for the Implementation of the Provisions of the United Nations Convention on the Law of the Sea of 10 December 1982 Relating to the Conservation and Management of Straddling Fish Stocks and Highly Migratory Fish Stocks, and the Food and Agriculture Organisation Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing.
4. Agree to develop and implement the joint Action Plan requested by the Heads of State and Government, and to formalize a relationship of understanding and cooperation between CRFM and OSPESCA for the execution of this joint Action Plan.
5. Agree also that the joint Action Plan will give priority to addressing: improved conservation and management of transboundary species such as migratory pelagic fish stocks and spiny lobster (*Panulirus argus*) in the first instance; the eradication of illegal, unreported and unregulated fishing through cooperation and strengthening of monitoring, control and surveillance systems; development of sustainable aquaculture; and a mechanism for communication and information exchange. The joint Action Plan will also address, inter alia: improved management of other shared fishery resources such as the queen conch (*Strombus gigas*); controlling invasive species with emphasis on the Pacific lionfish (*Pterois volitans* and *P. miles*) invasion; the development potential of unutilized and underutilized resources; proactive

policies to manage risk associated with disaster and climate change adaptation in the fisheries and aquaculture sector; strengthening of intra-regional trade in fish and fishery products; the mobilization of resources for training and capacity development; and small-scale fisheries development including livelihood security.

6. Support improved governance and management of the Caribbean large marine ecosystem through, *inter alia*, the development, endorsement and implementation of the Strategic Action Programme (SAP) for the region developed by the Global Environmental Facility (GEF)-funded Caribbean Large Marine Ecosystem (CLME) Project.
7. Promote and work towards the joint development and implementation of a Common Fisheries and Aquaculture Policy., involving a governance model that ensures the sustainability of fisheries and aquaculture resources.
8. Call upon donor partners and cooperating organizations to provide technical and financial support for the implementation of the joint CRFM/OSPESCA Action Plan.
9. Thank the government and people of Belize for promoting and collaborating in the realization of this first joint meeting, extended to friendly countries and organisations to advance their cooperation.

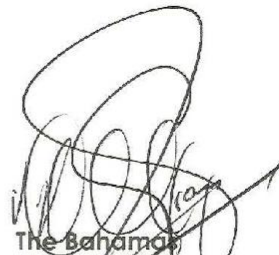
Sign: by Ministers or Chief of Delegations.



Anguilla



Barbados



The Bahamas



Belize

Xiaco  
Costa Rica

Rolando  
Grenada

Denzil Robert  
Guyana

Adrian  
Jamaica

Nicaragua

St. Kitts & Nevis

St. Vincent & The Grenadines

Turks and Caicos

Dominican Republic

Marcucci R.  
Guatemala

Honduras

Montserrat

Panama

St. Lucia

Trinidad & Tobago

## **ANNEX 5 – CRFM-OSPESCA JOINT ACTION PLAN**



# **JOINT ACTION PLAN CRFM – OSPESCA**

**September 2012**

## 1. INTRODUCTION

The Third CARICOM-SICA Summit of Heads of State and Government held on 19 August, in El Salvador, desiring to pursue joint actions that have a positive impact on the quality of life of the peoples of the two sub-regions, and considering that both sub-regions face similar development opportunities and challenges for the sustainable development and management of their fisheries and aquaculture sectors, acknowledged the significant efforts made by the CARICOM and SICA to pursue common policies for management, development and sustainable use of fisheries resources and aquaculture, and issued a Declaration to cooperate on matters of common concern and for mutual benefit.

The Heads of State and Government have thus instructed the Caribbean Regional Fisheries Mechanism (CRFM) and the Fisheries and Aquaculture organisation of Central America (OSPESCA) to work together to strengthen cooperation between the two regional fisheries organizations to improve the conservation, management and sustainable development of marine living resources of the Caribbean Sea.

Specifically CRFM and OSPESCA are requested to:

- a) Develop and implement a joint Action Plan for the responsible management of migratory fish resources of the Caribbean Sea;
- b) Ensure that the Action Plan facilitates the gradual inclusion of CRFM countries in the regulatory framework for the regional management of the spiny lobster industry in cooperation with the countries of SICA;
- c) Promote the strengthening of monitoring, control and surveillance systems to combat and prevent illegal, unreported and unregulated fishing;
- d) Explore new production alternatives such as aquaculture; and
- e) Convene the first joint ministerial meeting of the CRFM and OSPESCA, aimed at strengthening collaboration between both regional fisheries organisations to improve conservation, management and sustainable development of the living

marine resources of the Caribbean Sea, including review and approval of the joint Action Plan.

Within this framework the First Joint CRFM-OSPESCA Ministerial Meeting has been convened, 3-4 September 2012 in Belize in order to comply with the directives of the Declaration of the Heads of State and Government at the Third CARICOM-SICA Summit.

This document contains the outline of a proposed joint Action Plan to be submitted for consideration at the meeting in question.

## **OUTLINE OF ACTION PLAN PROPOSAL**

### **2. OBJECTIVE**

This plan aims to outline and to lay the foundation for a joint work program that, for the first time, will be promoted simultaneously by the CRFM and OSPESCA, taking as its starting point, the Declaration of the Heads of State and Government at the Third CARICOM-SICA Summit in 2011, and trying to integrate the fisheries and aquaculture management efforts of the two sub-regions, eventually to be supported in the future by a fisheries and aquaculture integration policy.

Specifically, the plan aims to establish a regional cooperation arrangement for executing the plan that works in a harmonious and coordinated manner to ensure the sustainability of fisheries and aquaculture based on principles for sustainable and responsible use of the resources.

### **3. STRATEGIES**

The CRFM and OSPESCA, taking into account the principles and strategies that are common to the fisheries and aquaculture policies of their respective sub-regions,

Taking into account also that this is the first time that a joint action plan will be agreed between the two regional organizations, and in order to ensure

consistency with the reality of the capacities within the Caribbean, the Meeting agrees that the Action Plan will:

- a) Be developed in phases, defining concrete actions for the short, medium and long term;
- b) Contain high priority actions that are clearly defined, manageable and feasible for implementation, especially in the short-term, so as to gradually lay the foundation to support a working mode of operation that is applicable in different regions;
- c) Establish a mechanism for communication and information exchange regarding issues of common interest;
- d) Include an implementation strategy based on the grouping of regional or sub-regional interests, and in this regard, the number of participating countries would depend on the subject to be addressed;
- e) Consider that a joint working mode of operation can commence with the selection of species that are targeted by commercial fisheries and that are important in international or sub-regional trade, noting that the large pelagic fishes and spiny lobster were identified in the Declaration of the Heads of State and Government, but agree that queen conch and other transboundary fish species will be considered in view of their importance to food and nutrition security in the region and international trade, and considering also the lionfish because of its high impact as an invasive species on the commercial fisheries and on biodiversity in the marine environment in the Caribbean;
- f) Consider actions to develop coordinated approach to combat IUU fishing activities and to strengthen Monitoring, Control and Surveillance;
- g) Consider actions to promote development of sustainable aquaculture.
- h) Consider that proposals for actions addressing fisheries and aquaculture management and development will take into account the need to: adopt a precautionary approach, as well as an ecosystem approach to

management, and will take into account biological, social, economic, and environmental aspects;

- i) Consider actions to address post-harvest market, and trade issues of common concern, based on sharing of information, experiences, and lessons learned within the two sub-regions; and
- j) Promote gender equality, and the participation of youth as this is key for equitable development among peoples.
- k) Promote the technical cooperation among developing countries (TCDC) approach to advance the aims of this partnership.

#### **4. REGIONAL ARRANGEMENT FOR EXECUTION OF THE ACTION PLAN**

Both organizations will jointly identify the range of interests, to clearly determine the issues that are regional or sub-regional in scope. Issues of interest to only one country, or a very few number of countries, will not be considered in this Action Plan.

The Councils of Ministers of the two organizations will be informed of the progress on the implementation of the Action Plan at least once a year. A Steering Committee will be established, composed of the countries that hold the Chairmanship of the policy making organ of each organization, to monitor and report on the progress of the Action Plan using each organisation's agreed official reporting mechanisms.

The operational coordination and monitoring of the implementation of the Action Plan will be made by the Directors or Regional Secretaries of OSPESCA and CRFM Secretariats, who will oversee the implementation of the Action Plan, and also inform their respective organisations of the progress achieved. The Directors or Secretaries of the two Secretariats will set up a technical committee to oversee and analyze proposals for inclusion in the Action Plan.

Joint regional working groups will be utilized, as needed, to facilitate the operation of the Action Plan, based on schemes already existing in each organization. In the absence of a specific group and based on the needs identified, a working group will be established, with suitably designated

membership.. If necessary, sessions of extended Groups will be carried out, to include the participation of experts from various countries.

CRFM and OSPESCA will each appoint an expert from its sub-region to coordinate the technical work of each fishery management issue included in the Action Plan. Experts identified to serve as coordinators are expected to consult with other professionals who, in turn, can strengthen or expand the level of participation within each sub-region.

Where synergies exist, these areas will be given attention, and through coordination with other regional and national actors, will serve to strengthen efforts to integrate work in the two sub-regions on sustainable use of aquatic resources. In particular, this will require cooperation and coordination among regional organizations, the organizations of production sectors of artisanal fishing, other members of the fishing industry, the aquaculture industry, the trade industry, and others.

An operating manual, agreed by both organizations, will be prepared to guarantee consistency and quality in implementation of agreed procedures and methods that ensure the achievement of results that contribute to integration and harmonization of approaches across the two sub-regions. In particular, competency profiles must be met by selected coordinators and experts, in accordance with their perceived role and functions.

## **5. SPECIFIC PRIORITY ACTIVITIES**

### **5.1 Research and management of fisheries of regional interest**

#### **5.1.1 Spiny lobster (*Panulirus argus*)**

The Caribbean spiny lobster resource supports the second most economically valuable fishery in the region. The resource is distributed throughout the Wider Caribbean, with evidence that it could be at least partly shared among the resident States. Regional-level stock assessments have indicated a decline in resource health, and regional cooperation is required to guarantee sustainability of the dependent fisheries.

In the short term, an inventory and corresponding database of the salient work already completed and documented, or under implementation in the areas of competence of each organization, will be prepared. The relevant documentation will be made available to CRFM and OSPESCA States via the websites of each organization, with the aim of these sites serving as information exchange web portals. Based on this information, the contributions that are common and have regional scope and that can be further advanced by both organizations will be determined. In the medium term, the Plan will consider the application of OSPESCA Regulation OSP-02-09 for the regional management of the Caribbean spiny lobster and the CRFM Ministerial directive to develop a similar regulation for CRFM States. Taking into account the information generated by the inventory, as well as the proposed interventions contained in Strategic Action Programme developed for the region by the Caribbean Large Marine Ecosystem Project, CRFM and OSPESCA will work towards the development of a broader regional agreement on the management of the Caribbean spiny lobster. This regional agreement would address all aspects from harmonization of statistical systems and collaboration in research to conservation and management measures that serve to: promote an ecosystem approach to management and a precautionary approach, deter, reduce and eliminate illegal, unreported and unregulated fishing activities, protect juvenile, berried and very fecund lobsters. The regional agreement will also strive to guarantee internationally respected market and trade operations.

The Regional Agreement on the management of Caribbean spiny lobster will then be submitted for consideration and adoption by both organizations. A working group will be established to identify and develop the elements of the regional agreement, and to determine a suitable timeframe for completion of the agreement and its consideration by the respective policy making bodies of the CRFM and OSPESCA.

#### 5.1.2 Large pelagic fisheries

Large pelagic fish species such as the tunas, dolphinfish and wahoo are highly migratory fishes distributed over vast sea areas within and beyond the Wider Caribbean region. These shared fish resources sustain many artisanal, small-scale, and large-scale commercial fisheries in the Wider Caribbean, and as such, would benefit from joint cooperation by CRFM and OSPESCA at the regional and international levels for their sustainable management. In doing so,

CRFM and OSPESCA States should also strengthen their overall cooperation with the International Commission for Conservation of Atlantic Tunas (ICCAT), which is the Regional Fisheries Management Organisation (RFMO) responsible for these fish resources in the Atlantic Ocean.

In the short-medium term, and taking into account the proposed interventions contained in the Strategic Action Programme developed for the region by the Caribbean Large Marine Ecosystem Project, CRFM and OSPESCA will consider and work towards achieving a regional management cooperation arrangement with ICCAT for contributing to conservation and management of Atlantic tuna and tuna-like fish species that are harvested by States in the region, in partnership with other interested regional fisheries organizations, as deemed necessary for its success.

It is envisaged that in the long term, the proposed regional management cooperation arrangement with ICCAT will facilitate development of harmonized large pelagic fishery statistical monitoring systems, formulation and implementation of regionally-agreed research plans to strengthen the information and knowledge base on the biology, ecology and management of large pelagic fish resources, and sustainable management utilization of these resources at the regional level, consistent with ICCAT-agreed goals and standards, and other related international obligations.

## **5.2 Combating Illegal, Unregulated and Unreported Fishing through strengthened Monitoring, Control and Surveillance Systems (MCS)**

In the short term, CRFM and OSPESCA Secretariats will each conduct a review and evaluation of completed and ongoing initiatives in their respective sub-regions for improving Monitoring, Control and Surveillance (MCS). The results of the evaluations will be used to inform the development, in the medium term, of a joint regional plan covering the two sub-regions that are under the jurisdiction of the two organizations.

The regional plan should include, *inter alia*, the following actions, and will likely require a phased approach to implementation over the medium to long-term:

- a) A coordinated review, update and development of MCS regulatory framework in those Member States that have not yet done so, consistent with the approaches prescribed by the relevant international instruments,

such as the FAO Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing, and promote Member State ratification, acceptance, approval or accession of these instruments, as necessary, and as soon as possible.

- b) An initiative to strengthen the institutional MCS and law enforcement capacities in Member States, especially with regard to training of fisheries inspectors and maritime security agents.
- c) An initiative to boost the design of a permanent working scheme that allows regional coordination and collaboration between CRFM and OSPESCA on MCS, including the development of information-sharing protocols.
- d) Proposals to facilitate collaboration with other national, regional and international entities and their inputs in both the design phase and the implementation of the joint regional plan.
- e) An initiative to launch a regional network to support implementation of a joint regional plan on MCS.

If deemed necessary, a working group will be established to elaborate this activity and to guide its implementation.

### **5.3 Regional development of aquaculture.**

In the short-term, CRFM and OSPESCA will collaborate to prepare an inventory of completed and ongoing initiatives in aquaculture, to determine the level of information and knowledge available. This information will be shared through the web portals of both organisations. Additionally, the CRFM and OSPESCA will establish and/or participate in existing appropriate aquaculture networks and working groups to promote sustainable aquaculture development at the regional and national levels. This plan will therefore promote an exchange program both for national experts and producers, aimed at extending the opportunities of local best practices at the regional level.

In the medium-long term, , native species will be given preferential treatment for further research and development In promoting sustainable practices at the regional level.

Additionally, the areas of seed production, production technologies, environmental measures, markets and health measures will be given due attention in the activities outlined above.

## **6. ADDITIONAL ACTIVITIES FOR CONSIDERATION**

### **6.1 Research, development and management of fisheries of regional interest**

#### **6.1.1 Queen conch (*Strombus gigas*)**

Similar to Caribbean spiny lobster, queen conch is widely distributed throughout the Caribbean, and sustains very valuable fisheries in a number of CRFM and OSPESCA States. The need for a regional approach to the management of queen conch is considered essential.

Hence, like spiny lobster, an inventory and corresponding database of the salient work already completed and documented, or under implementation in the areas of competence of each organization, will be prepared in the first instance. The relevant documentation will be made available to CRFM and OSPESCA States via the websites of each organization, with the aim of these sites serving as information exchange web portals. Based on this information, the contributions that are common and have regional scope and that can be further advanced by both organizations will be determined.

Considering the information generated by the inventory, CRFM and OSPESCA will work towards the development of a broader regional agreement on the management of queen conch, which would address all aspects from harmonization of statistical systems and collaboration in research to conservation and management measures that serve to: promote a precautionary approach, an ecosystem approach to management, and deter, reduce and eliminate illegal, unreported and unregulated fishing activities. The regional agreement will also strive to guarantee internationally respected market and trade operations.

The Regional Agreement on the management of queen conch will then be submitted for consideration and adoption by both organizations. If deemed necessary, a Working Group will be established to elaborate this activity, and to guide its implementation.

#### 6.1.2 Lionfish (*Pterois volitans* and *P. miles*)

In view of the threat that lionfish poses to the sustainability of the region's fisheries, the activities proposed are expected to be undertaken in the short-term.

A qualified professional for each sub-region would be identified to coordinate the collection and compilation of data and information, which will provide a comprehensive overview of current understanding and knowledge of the biology and ecology of lionfish, of its impact on the fishing industries of the Caribbean region and of best management control practices.

Based on this information and knowledge, CRFM and OSPESCA will cooperate to formulate and implement a jointly coordinated management and control strategy for lionfish, which will address identified gaps and needs in scientific research, resource assessment, public awareness and education, and management approaches. The strategy will include proposals on the specific work to be carried out jointly in the future, and identify options for promoting the implementation of regionally coordinated actions in collaboration with relevant international, regional, and national partners.

All results will be released to both CRFM and OSPESCA States via the established web portals of both organizations.

#### **6.2. Markets.**

Both organizations will develop and pursue a marketing strategy that will strengthen intra-regional trade, for the purpose of encouraging domestic consumption of regional fish and fish products by the populations of both sub-regions.

The strategy will identify commercial alternatives that could be gradually promoted to capitalize on the existing marketing opportunities in both sub-regions, such as linkages with tourism, but will also evaluate the options for improving access to local fishery and aquaculture-generated protein by the region's populations.

A campaign to promote the consumption of fish and fish products will also be considered to enhance access by the socially and economically vulnerable sections of society.

If deemed necessary, a working group will be established to elaborate the strategy fully and to guide its implementation.

### **6.3. Caribbean Large Marine Ecosystem (CLME) Project**

The Caribbean Large Marine Ecosystem (CLME) Project is intended to assist States in and adjacent to the Caribbean Sea to develop a regional and ecosystem-based approach to management of the associated Caribbean Large Marine Ecosystem. The project has focused attention firstly on strengthening the technical information base for major fishery activities, evaluation of the fishery governance systems and processes and identification of governance interventions required to promote ecosystem-based management approaches. The Project has also facilitated completion of the first steps to assist States in their preparation for implementing the proposed ecosystem-based approach to management of the CLME, and is currently developing a Strategic Action Programme (SAP) for implementing the next steps, as agreed.

In this Action Plan, CRFM and OSPESCA agree to give continued and increased support to ensure successful completion of the CLME project and its SAP report by December 2012, and to give due attention to the proposed reforms, recommendations and investments contained in the CLME SAP Report that will be presented in early 2013 for Ministerial-level endorsement to guide implementation on the way forward.

CRFM and OSPESCA will also encourage States to conduct national stakeholder consultations to discuss the CLME SAP report, as needed and before December 2012, under the guidance of Ministers responsible for development and management of living marine resource and environment management and conservation, so as to guarantee understanding, contribution, support and cooperation by all stakeholders for refinement and implementation of the actions proposed;

CRFM and OSPESCA will provide continued support to ensure endorsement of the CLME SAP by policy makers, as this is required to secure additional financing and technical assistance from the Global Environmental Facility and other donors to support the implementation of the recommended reforms to strengthen governance, management and sustainable use of the resources of the Caribbean Large Marine Ecosystem, and will give high priority to facilitating the endorsement process in a timely fashion.

#### **6.4. Disaster and climate change risk management and adaptation strategies**

The contribution of fisheries and aquaculture to social and economic development and food security is threatened by increasing vulnerability of the people involved in the sector, with this vulnerability growing because of increased incidence of hazards and the impact of climate change. As such, climate change is likely to have profound effects on fishing and fish farming communities in the region, e.g. changes in fish distribution and accessibility by fishing fleets. It is therefore essential that appropriate proactive policies, strategies and action plans are developed to deal with the increasing vulnerability of the sector to disaster risks and climate change, and to build resilience to the associated risks.

CRFM and OSPESCA will establish a Working Group to develop a combined strategic approach to address the impacts of disaster risk management (DRM) and climate change, and taking into account the Hyogo Framework of Action within their fisheries and aquaculture sector policies, including, *inter alia*:

- (a) Activities to strengthen long-term capacities at regional, sub-regional, national and local levels to systematically contribute to building resilience to hazards in fishing and aquaculture communities;
- (b) Activities to ensure that institutions concerned with fisheries and aquaculture development at the local, national, sub-regional and regional levels develop and maintain sustainable mechanisms of coordination to support the implementation of regional programmes for DRM and climate change adaptation across the fisheries and aquaculture sector;

- (c) Collaboration with a range of other sector agencies to implement systematic approaches to livelihood diversification for poor fishing and aquaculture communities in ways that build their resilience and reduce their vulnerability;
- (d) Activities to reinforce institutional and operational capacities dedicated to risk management of natural disasters within the fisheries and aquaculture sector, build local and national capacities to undertake hazard identification and analysis, undertake risk assessments and risk mapping and strengthen local early warning and response capacities.

#### **6.5. Securing small scale fisheries and livelihood security, training of fishers, fisheries policy coordination**

Small-scale fisheries in CRFM and OSPESCA Member States make a valuable contribution to poverty alleviation, food and nutrition security, employment and income generation, economic growth and social stability. As such they provide livelihood security for vulnerable members of society including women and marginalized youth. However, the sustainable development and management of small-scale fisheries face challenges because of the large numbers and low level of education of the operators involved, the remote location of fishing and landing operations, inadequate organisational structures, and limited access to credit and markets.

The CRFM and OSPESCA will support initiatives aimed at capacity-building of small-scale fisherfolk organisations and at strengthening the sustainable management of small-scale fisheries to guarantee and enhance their contribution to social and economic development.

The CRFM and OSPESCA Secretariats will also continue their individual efforts and initiate joint activities to build human and institutional capacity and to secure transfer of appropriate technology and knowledge among fisherfolks, staff of national fisheries departments and regional fisheries bodies to improve policy coordination and implementation, as well as governance, management and sustainable use of fisheries resources and ecosystems.

If deemed necessary, a Working Group will be established to develop this activity and to guide its implementation.

#### **6.6. Development potential of under-utilized and un-utilized resources**

To afford the realization of fisheries development opportunities in cases of under-utilized and un-utilized resources, and taking into account the special needs of their Member States as Developing States, the CRFM and OSPESCA will develop and information and knowledge base on fishery development activities, and make this available to their Member States. Where a regional or sub-regional need has been identified, the CRFM and OSPESCA will explore and develop options for technical cooperation and other capacity building activities among stakeholders and fisheries managers.

If deemed necessary, a Working Group will be established to develop this activity and to guide its implementation.

#### **7. Training and technical assistance.**

Both organizations will seek resources for specialized technical assistance and training programs identified as priorities by the parties involved. Efforts will be made to capitalize on the experience of specialists from both sub-regions.

The approach of training of trainers will be utilized to strengthen the region's own technical expertise and capacity to deliver training.

#### **8. Development of a long-term integrated Regional Work Program.**

It is proposed that both organizations establish a scheme that allows progressive development of an integrated regional work program of wide and long-term scope, informed by actions, outputs and outcomes effected in the short term, as well as by other experiences fostered at the regional level.

#### **9. Fisheries and Aquaculture integration Policy**

In the long-term, the Action Plan will generate information and knowledge to facilitate the development of a proposal for a fisheries and aquaculture integration policy, which could involve a binding governance model in order to ensure accountability for the use and management of the fisheries resources and aquaculture.

#### **10. Financing.**

Resources to implement the plan will come from the national and regional contributions, and both organizations will invite international cooperation to play a role in this new regional integration effort.



**ANNEX 6 – MEMORANDUM OF UNDERSTANDING OSPESCA-CCAD  
(in Spanish)**



## **Memorando de Entendimiento y Cooperación**

**entre**

**La Comisión Centroamericana de  
Ambiente y Desarrollo (CCAD)**

**y**

**La Organización del Sector Pesquero y  
Acuícola del Istmo Centroamericano  
(OSPESCA)**

**Managua, Nicaragua, 22 de noviembre de 2012**

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**Memorándum de Entendimiento y Cooperación entre la Comisión  
Centroamericana de Ambiente y Desarrollo (CCAD) y la Organización del  
Sector Pesquero y Acuícola del Istmo Centroamericano (OSPESCA), ambos  
integrantes del Sistema de la Integración Centroamericana (SICA)**

La **Sra. Juana Argeñal Sandoval**, Ministra de Ambiente y Recursos Naturales (MARENA), mayor de edad, actuando en su condición de Presidenta Pro Tempore de la Comisión Centroamericana de Ambiente y Desarrollo, en adelante denominado como **CCAD** y el **Sr. Steadman Fagoth Müller**, Presidente del Instituto Nicaragüense de la Pesca y Acuicultura (INPESCA), mayor de edad, actuando en su condición de Presidente Pro Tempore de la Organización del Sector Pesquero y Acuícola del Istmo Centroamericano, denominado de ahora en adelante **OSPESCA**.

**Considerando:**

- a) Que el Memorándum de Entendimiento entre CCAD y OSPESCA, firmado en Belize el 21 de abril del 2007, concluyó su vigencia en el presente año;
- b) Que existen condiciones para fortalecer las sinergias que contribuyan al logro de los objetivos de CCAD y OSPESCA.

**Acuerdan:**

Renovar y actualizar el Memorándum de Entendimiento y Cooperación, denominado en adelante el "Memorándum", en el marco de la Política de Integración de la Pesca y la Acuicultura del Istmo Centroamericano y del Plan Ambiental de la Región Centroamericana. El Memorándum se ejecutará considerando las cláusulas siguientes:

**I. Objetivo:**

Fortalecer los vínculos de coordinación para una interacción e integración institucional en temas ambientales afines a la pesca y la acuicultura relacionadas con el uso sostenible de los recursos de la pesca y la acuicultura.



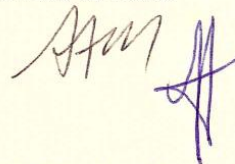
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## **II. Acciones conjuntas en torno a este Memorándum:**

- a) Propiciar opiniones y la toma de acuerdos regionales conjuntos y armónicas con enfoques de integración y desarrollo sostenible, particularmente en foros internacionales, afines a los objetivos de CCAD y OSPESCA.
- b) Establecer un marco de cooperación para el logro del objetivo de este Memorándum, en particular formulando, gestionando y ejecutando conjuntamente proyectos regionales;
- c) Impulsar acciones de coordinación con otras instituciones u organismos que puedan participar y/o cooperar en el desarrollo y aplicación del presente Memorándum;
- d) Considerar la cooperación, participación y opinión de la sociedad civil organizada a nivel regional y nacional en donde se aborden propuestas de alcance regional;
- e) Mantener informadas a las autoridades de la pesca y la acuicultura que integran OSPESCA y del Ambiente sobre el desarrollo del presente Memorándum.
- f) Estimular para que el esquema de coordinación interinstitucional regional se replique a nivel nacional.

## **III. Dedicación:**

El presente Memorándum no implica dedicación exclusiva entre OSPESCA y la CCAD, y cada una de las partes se reserva el derecho de trabajar independientemente o con otras organizaciones. Sin embargo, en el marco de este Memorándum los compromisos y tomará acuerdos se hará con el consentimiento de ambas partes.



## **IV. Recursos:**

Este Memorándum aprovechará las capacidades institucionales de OSPESCA, CCAD para su ejecución y en conjunto gestionarían otros recursos que fuesen necesarios.

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#### **V. Coordinación:**

La supervisión y seguimiento del presente Memorándum estará a cargo del Secretario de la CCAD o su Delegado y del Coordinador de la Unidad Regional de Pesca y Acuicultura (Unidad SICA/OSPESCA) de la Secretaría General del Sistema de la Integración Centroamericana (SG-SICA) o su Delegado e informarán oportunamente a sus respectivas autoridades.

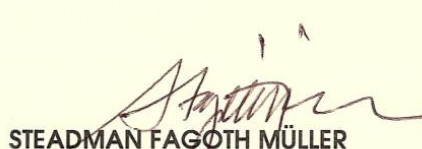
#### **VI. Divulgación:**

OSPESCA y la CCAD aprovecharán las oportunidades necesarias para divulgar en forma coordinada el presente Memorándum y de informar sobre sus avances.

#### **VII. Período de Vigencia:**

Este Memorándum entrará en vigencia a partir de su firma y podrá ser rescindido por cualquiera de las partes con la sola comunicación expresa y por escrito de la contraparte con tres meses de anticipación. En ese caso, los proyectos en curso continuarán hasta su culminación, salvo acuerdo en contrario.

En fe de lo cual, las partes suscriben el presente Memorándum, en dos ejemplares en la Ciudad de Managua, Nicaragua a los veintidós días del mes de noviembre del año dos mil doce.



**STEADMAN FAGOTH MÜLLER**  
Presidente Pro-Tempore  
OSPESCA



**JUANA ARGÑAL SANDOVAL**  
Presidente Pro-Tempore  
CCAD



## **ANNEX 7 – DRAFT SET OF SELECTED KEY SAP INDICATORS**

**IMPLEMENTING EBM/EAF FOR SHARED LIVING MARINE RESOURCES GOVERNANCE AND MANAGEMENT  
IN THE CLME<sup>+</sup>**

**Selected KEY PROCESS INDICATORS**

| INDICATORS                                                                                                                                                                                                                                                                                          | TARGETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CLME SAP Strategies     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <p><b>Inter-sectoral/Inter-ministerial committees or equivalent coordination mechanisms (including science-policy interfaces)</b> for EBM/EAF-based shared Living Marine Resources (sLMR) governance &amp; management established and operational at regional, sub-regional and national levels</p> | <ul style="list-style-type: none"> <li>• <u>regional-level target:</u> <ul style="list-style-type: none"> <li>o formal participation of 100% of CLME<sup>+</sup> SAP countries in regional coordination/decision-making mechanisms for sustainable fisheries and for the protection of the marine environment, secured within initial 5 years of SAP implementation (<i>Strategy 1 and 2</i>)</li> <li>o interim inter-sectoral coordination mechanism (fisheries, environment) including at least UNEP CEP, FAO-WECAFC, CRFM, OSPESCA, CCAD, OECS established within first 5 years of SAP (<i>Strategy 3</i>)</li> <li>o permanent, inclusive regional policy coordination mechanism for sLMR (fisheries, environment) agreed upon and implemented within the 10-year SAP implementation period (<i>Strategy 3</i>)</li> </ul> </li> <li>• <u>sub-regional level targets:</u> <ul style="list-style-type: none"> <li>o inter-sectoral coordination mechanisms established within first 5 years of SAP for implementing EBM for reefs and associated ecosystems (includes at least CRFM, CEHI, OSPESCA and CCAD) (<i>Strategy 4</i>)</li> <li>o formal participation of 100% of GEF-eligible NBSLME countries in sub-regional inter-sectoral coordination mechanism (fisheries, environment) for EBM/EAF on the Guianas-Brazil Continental Shelf within the 10-year SAP implementation period (<i>Strategy 6</i>)</li> </ul> </li> <li>• <u>national-level targets:</u> <ul style="list-style-type: none"> <li>o sustainable national inter-sectoral/ministerial</li> </ul> </li> </ul> | <p>1, 2, 3, 4, 5, 6</p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>committees (NICs) or equivalent mechanisms established and operational in at least 70% of SAP participating countries within first 5 years of SAP</p> <p>o sustainable national inter-sectoral/ministerial committees (NICs) or equivalent mechanisms established and operational in at least 90% of SAP participating countries within the 10-year SAP implementation period</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |
| <p><b>Regional-level policy for the sharing (and harmonization, as needed and feasible) of relevant data and information, with the aim of improving shared living marine resources (sLMR) governance and management</b></p> <p><b>*Policy applicable to:</b></p> <p>o data and information needed for operationalising the SAP's different Decision-Support Systems (DSSs) for sLMR management</p> <p>o data and information required for SAP Monitoring &amp; Evaluation, and reporting on the State of the CLME<sup>+</sup></p>                                                            | <ul style="list-style-type: none"> <li>• Policy developed through collaborative efforts among at least 70% of regional and sub-regional organizations with leadership role in SAP within first 5 years of SAP</li> <li>• Policy approved by at least 70% of CLME<sup>+</sup> SAP countries that are member states of regional and sub-regional organizations with leadership role in SAP within first 5 years of SAP</li> <li>• Policy implemented by/through at least 90% of regional and sub-regional organizations within the 10-year SAP implementation period</li> </ul>                                                                                                                                                                                                                         | 3                                |
| <p><b>Regionally coordinated science &amp; research strategies in support of implementing the EAF/EBM approach for sLMR governance &amp; management</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Strategy developed and approved by/through at least 70% of regional and sub-regional organizations with leadership role in SAP within first 5 years of SAP</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                                |
| <p><b>Decision Support Systems (DSS)* implemented for EBM/EAF of ecosystems and key fisheries in the CLME<sup>+</sup> Region</b></p> <p><b>*Key components for the DSSs:</b></p> <p>o data collection, management &amp; sharing capacity</p> <p>o monitoring, evaluation &amp; reporting capacity</p> <p>o science-policy interface</p> <p><b>*Key principles – DSS must facilitate:</b></p> <p>o adaptive management</p> <p>o participative approach (civil society, private sector)</p> <p>o integration of value of ecosystems goods &amp; services</p> <p>o “ridge-to-reef” approach</p> | <ul style="list-style-type: none"> <li>• DSS developed/enhanced and operational for implementing <b>EAF</b> for the <b>4 CLME key fisheries</b>: spiny lobster; queen conch; and flyingfish within <b>first 5 years</b> of SAP and large pelagic within the <b>10 year</b> SAP implementation period</li> <li>• DSS developed/enhanced and operational for implementing <b>EBM</b> of <b>reefs and associated ecosystems</b> within <b>first 5 years</b> of SAP</li> <li>• DSS developed and operational for implementing <b>EAF</b> for the <b>NBSLME shrimp and groundfish fisheries</b>, within the <b>10-year</b> SAP implementation period</li> <li>• DSS developed and operational for implementing <b>EBM</b> of the NBSLME <b>continental shelf</b>, within the <b>10-year</b> SAP</li> </ul> | 1, 2, 3, 4, 4A, 4B, 5, 5A, 5B, 6 |

|                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| o mainstreaming of adaptation to climate change                                                                   | implementation period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
| <b>Levels of ratification of international and regional agreements relevant to sLMR governance and management</b> | <ul style="list-style-type: none"> <li>At least 50% increase in ratification levels of the 3 Cartagena Convention protocols and other relevant international agreements such as Basel Convention, MARPOL, and CBD (baseline = ratification levels at SAP initiation) within first 5 years of SAP</li> <li>At least 50% increase, during the SAP implementation period, of GEF-eligible CLME<sup>+</sup> country ratification and implementation levels of other relevant international agreements, in particular: <ul style="list-style-type: none"> <li>UN Fish Stocks Agreements</li> <li>Compliance Agreement</li> </ul> </li> </ul> | 1, 2                             |
| <b>National Action Plans</b>                                                                                      | <ul style="list-style-type: none"> <li>SAP Actions mainstreamed in National Action Plans in at least 60% of CLME<sup>+</sup> countries during first 5 years of SAP implementation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1, 2, 3, 4, 4A, 4B, 5, 5A, 5B, 6 |

\*This draft list is by no means comprehensive; it merely describes a selected set of key indicators & targets that link the CLME<sup>+</sup> SAP Strategies and Actions to key expected outcomes of the GEF International Waters Focal Area Strategy

| <b>IMPLEMENTING EBM/EAF FOR sLMR GOVERNANCE AND MANAGEMENT IN THE CLME<sup>+</sup></b><br><b>Selected KEY STRESS REDUCTION INDICATORS</b>                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>INDICATORS</b>                                                                                                                                                                     | <b>TARGETS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>CLME SAP Strategies</b> |
| <b>Stress reduction measures: protection &amp; restoration of key habitats (key transboundary issue: habitat degradation)</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |
| Enhanced geographic coverage and effectiveness of regional network of MPAs and multi-purpose management areas (habitat protection & restoration; total number of ha/km <sup>2</sup> ) | <ul style="list-style-type: none"> <li>at least 10% of the coastal and marine <i>areas</i> in the CLME<sup>+</sup> SAP participating countries- <i>especially those areas of particular importance for biodiversity and ecosystem services</i>- are protected through effectively and equitably managed, ecologically representative and well-connected systems of national and/or transboundary/regional protected areas and other effective area-based conservation and/or protection measures during the 10-year SAP implementation period</li> </ul> | 4                          |

|                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|                                                                                                                                                     | <ul style="list-style-type: none"> <li>• 20% area target for the countries participating in the Caribbean Challenge Initiative (by 2020)</li> <li>• initiatives to restore critical habitats and national-level or transboundary linkages between critical habitats initiated under the CLME+ SAP (initial 5 years) in at least 15 CLME+ countries</li> </ul>                                                                                                                                                                                                                                                                                                                 |                   |
| <b>Stress reduction measures: sustainable fisheries and enhanced livelihoods (key transboundary issue: unsustainable fisheries)</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
| Adoption and advancement of the implementation of EAF to key fisheries in the CLME and NBSLME                                                       | <ul style="list-style-type: none"> <li>• principle of EAF approach for the 4 CLME key fisheries and for the NBSLME shrimp and groundfish fisheries adopted through the endorsement of the CLME+ SAP by at least 70% of the CLME+ participating countries</li> <li>• EAF-based regional management plans developed and/or updated, and implementation initiated within the first 5 years of the SAP for all 4 CLME key fisheries</li> <li>• EAF-based regional management plans implemented for the 4 CLME key fisheries and the NBSLME shrimp and groundfish fisheries during the 10-year SAP implementation period</li> </ul>                                                | 4A, 4B, 5A, 5B, 6 |
| Strengthened and better coordinated initiatives to combat IUU in the CLME and NBSLME + increased levels of compliance (incl. levels of enforcement) | <ul style="list-style-type: none"> <li>• measures against IUU for at least all 4 CLME key fisheries (spiny lobster, queen conch, flyingfish, large pelagics) implemented and strengthened in 70% of participating countries within first 5 years of SAP implementation</li> <li>• measures coordinated among at least 70% of all CLME+ countries participating in each major fishery, within first 5 years of SAP implementation</li> <li>• enhanced enforcement of, and compliance with, regulations for these 4 key fisheries registered in at least 70% of all CLME+ countries participating in these fisheries, during the first 7 years of SAP implementation</li> </ul> | 4A, 4B, 5A, 5B, 6 |
| Adoption and advancement of the implementation of EBM for the “reefs and associated systems” ecosystem type                                         | <ul style="list-style-type: none"> <li>• principle of EBM approach for reefs and associated systems adopted through the endorsement of the CLME+ SAP by at least 70% of the CLME+ participating countries</li> <li>• “EBM” plans (ICM, spatial planning) for reefs and associated systems developed and/or updated, and implementation initiated within the first 5 years of the SAP in at least 8 CLME+ countries</li> </ul>                                                                                                                                                                                                                                                 | 4, 4A, 4B         |

|                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                          | <ul style="list-style-type: none"> <li>“EBM” (ICM, spatial planning) plans under implementation in at least 70% of CLME+ countries by the end of the 10-year SAP implementation period</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           |                               |
| Reduced pressure on fisheries resources through sustainable alternative livelihoods                                                                      | <ul style="list-style-type: none"> <li>Sustainable alternative livelihoods (“decent work” alternatives to fisheries) implemented in at least 5 pilot sites during first 5 years of SAP implementation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            | 2, 4, 4A, 4B, 5, 5A, 5B, 6    |
| <b>Stress reduction measures: <i>prevention, reduction, control and mitigation of pollution</i></b>                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |
| Strengthened integration of the management of terrestrial river basins with the management of the marine and coastal environments of the CLME and NBSLME | <ul style="list-style-type: none"> <li>specific land and water resources management actions and investments that address the need for increased protection of the marine environment from land-based sources (e.g. reduced sediment, nutrient and contaminant loads) implemented in at least 5 major river basins within the first 5 years of SAP implementation</li> <li>specific land and water resources management actions and investments to reduce land-based sources implemented in at least half of the GEF-eligible SIDs within the first 5 years of SAP implementation</li> </ul> | 1, 4                          |
| <b>Stress reduction measures: <i>reduced vulnerability to climate variability and change</i></b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |
| Adaptation to climate variability and change mainstreamed in activities undertaken in the context of the CLME+ SAP                                       | <ul style="list-style-type: none"> <li>As a minimum, the following “adaptation criteria” are considered during design of SAP implementation activities: <ul style="list-style-type: none"> <li>Activities and expected results are robust in the context of the uncertainty surrounding climate variability and change</li> <li>Activities and expected results contribute to enhancing resilience of CLME+ as a socio-ecological system</li> </ul> </li> </ul>                                                                                                                             | 1, 2, 3, 4, 4A, 4B, 5A, 5B, 6 |

\*This draft list is by no means comprehensive; it merely describes a selected set of key indicators & targets that link the CLME+ SAP Strategies and Actions to key expected outcomes of the GEF International Waters Focal Area Strategy



## **ANNEX 8 – SAP ENDORSEMENTS - COUNTRIES**



**GOVERNMENT OF ANTIGUA AND BARBUDA**

***MINISTERIAL ENDORSEMENT LETTER FOR  
THE CLME & STRATEGIC ACTION PROGRAMME***

**Subject: Antigua and Barbuda Endorsement of the CLME & SAP**

In my capacity as Minister of Agriculture, Lands, Fisheries and Barbuda Affairs for Antigua and Barbuda, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME & SAP).

A handwritten signature in dark ink, appearing to read "J. NIBBS", written over a dotted line.

Signature of Minister

A handwritten signature in dark ink, appearing to read "ANTIGUA &amp; BARBUDA", written over a dotted line.

Member State

A handwritten date in dark ink, appearing to read "21.9.16", written over a dotted line.

Date

**MINISTER  
Ministry of Agriculture, Lands  
Fisheries and Barbuda Affairs**

Ministerial Stamp



NO.: MTE&H/BEST/45

In Replying Please  
Quote This Number

**THE HON. KENRED M. A. DORSETT, M.P.**

**Minister of The Environment & Housing  
Ministry of The Environment & Housing**

**Charlotte House  
2<sup>nd</sup> Floor North Wing  
Charlotte & Shirley Streets**

P.O. Box N-4849

Nassau, The Bahamas

Telephone: (242) 322-6005/6

Facsimile: (242) 326-4687 or (242) 322-6064

18<sup>th</sup> May, 2016

Subject: The Bahamas' Endorsement of the CLME<sup>+</sup> SAP

In my capacity as Minister of the Ministry of the Environment and Housing for The Bahamas, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

Hon. Kenred M.A. Dorsett, M.P.

Ministry of the Environment and Housing



MINISTRY OF ENVIRONMENT  
AND DRAINAGE



DATE: 2013-05-28

MINISTERIAL ENDORSEMENT LETTER FOR THE  
CLME+ STRATEGIC ACTION PROGRAMME

Barbados' Endorsement of the CLME+SAP

In my capacity as Minister of Environment and Drainage for Barbados, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and the North Brazil Shelf Large Marine Ecosystems (CLME+ SAP).

DR. THE HON. DENIS LOWE  
Minister of Environment and Drainage

## **MINISTERIAL ENDORSEMENT LETTER FOR THE CLME<sup>+</sup> STRATEGIC ACTION PROGRAMME**



May 24, 2013

**Subject:** Belize's Endorsement of the CLME<sup>+</sup> SAP

In my capacity as Minister of Forestry, Fisheries and Sustainable Development for Belize, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

A handwritten signature in black ink, reading "Lisel Alamilla", is written over a horizontal line. The signature is stylized and cursive.

**Hon. Lisel Alamilla**  
**Ministry of Forestry, Fisheries & Sustainable Development**



**MINISTRY OF FISHERIES AND AQUACULTURE OF BRAZIL**

Brasília, April 26, 2013.

Subject: **Brazil Endorsement of the CLME +SAP.**

In my capacity as Minister of Fisheries and Aquaculture of Brazil, I endorse the Strategic Action Programme for the Sustainable Management of the Shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME+SAP).

A handwritten signature in blue ink, consisting of a large loop followed by a series of smaller loops and a final upward stroke.

**MARCELO CRIVELLA**  
Minister of Fisheries and Aquaculture



**PROSPERIDAD  
PARA TODOS**

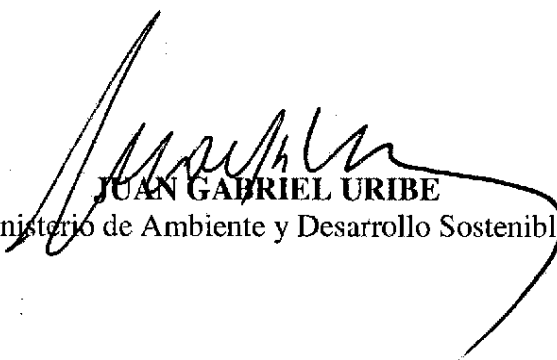
17 MAYO 2013

8000-2-10030

**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME<sup>+</sup>**

**Asunto:** Endoso del Ministerio de Ambiente y Desarrollo Sostenible de Colombia para el PAE del CLME<sup>+</sup>.

En mi calidad de Ministro de Ambiente y Desarrollo Sostenible de Colombia, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME<sup>+</sup>).

  
**JUAN GABRIEL URIBE**  
Ministerio de Ambiente y Desarrollo Sostenible



**MinAgricultura**  
Ministerio de Agricultura  
y Desarrollo Rural

100 AÑOS

**PROSPERIDAD  
PARA TODOS**



**Al contestar por favor cite estos datos:**

Radicado No.: **20132700140371**

Fecha: **03-07-2013**

Bogotá, D.C.

Doctora  
ELIZABETH TAYLOR JAY  
Directora de Asuntos Marinos, Costeros y Recursos Acuáticos  
Ministerio de Ambiente y Desarrollo Sostenible  
Ciudad

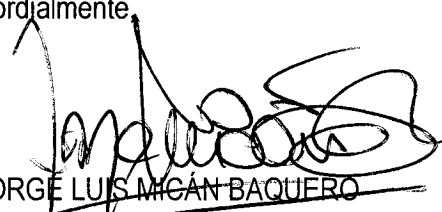
Asunto: Endoso al PAE del CLME+

Respetada doctora Taylor:

En atención al compromiso adquirido por ésta Cartera, adjunto remito carta de endoso Ministerial al Programa de Acciones Estratégicas para el Manejo Sostenible de los recursos Marinos Vivos Compartidos de los Grandes Ecosistemas Marinos del Gran Caribe y de la Plataforma del Norte de Brasil, (PAE del CLME+).

Quedamos atentos para prestar el apoyo requerido para la atención de este asunto.

Cordialmente,

  
JORGE LUIS MICÁN BAQUERO  
Director de Pesca y Acuicultura (E)

Anexo: Lo enunciado en un (1) folio

Copia: Dr. Julián Botero Arango, Director General de la Autoridad Nacional de Acuicultura y Pesca – AUNAP

Dra. Paula Caballero Gómez, Directora de Asuntos Económicos, Sociales y Ambientales; Ministerio de Relaciones Exteriores.

Proyecto **GCAMACHO**

Avenida Jiménez N° 7A-17

Recepción Correspondencia y Oficina de Atención al Ciudadano Carrera 8 N° 12B – 31 • Código Postal Nro. 11711

Conmutador (571) 254 33 00

Línea de Atención Gratuita 018000510050 y desde Bogotá 6 06 71 22

[www.minagricultura.gov.co](http://www.minagricultura.gov.co)



**MinAgricultura**  
Ministerio de Agricultura  
y Desarrollo Rural

100 AÑOS

**PROSPERIDAD  
PARA TODOS**



Al contestar por favor cite estos datos:

Radicado No.: 20132700122311

Fecha: 11-06-2013

**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME<sup>+</sup>**

Asunto: Endoso del Ministerio de Agricultura y Desarrollo Rural de Colombia para el PAE del CLME<sup>+</sup>

En mi calidad de Ministro de Agricultura y Desarrollo Rural de Colombia, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME<sup>+</sup>).

**FRANCISCO ESTUPINAN HEREDIA**  
Ministro de Agricultura y Desarrollo Rural

- 4 JUN 2013

0 0 0 4 3 4

**CARTA DE ENDOSO INSTITUCIONAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME+**

**ASUNTO:** Endoso de la Autoridad Nacional de Acuicultura y Pesca de la República de Colombia para el PAE del CLME+

En mi calidad de Director General de la **AUTORIDAD NACIONAL DE ACUICULTURA Y PESCA** de la **REPÚBLICA DE COLOMBIA**, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME+).



**JULIAN BOTERO ARANGO**  
AUTORIDAD NACIONAL DE ACUICULTURA Y PESCA



**Cancillería**  
Ministerio de Relaciones Exteriores

**PROSPERIDAD  
PARA TODOS**

S-DM-13-028307

**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME<sup>+</sup>**

29 de julio de 2013

Asunto: Endoso del Ministerio de Relaciones Exteriores de Colombia para el PAE del CLME<sup>+</sup>

En mi calidad de Ministra de Relaciones Exteriores de la República de Colombia, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME<sup>+</sup>).

**MARIA ANGELA HOLGUÍN CUÉLLAR**  
Ministra de Relaciones Exteriores

436.305 (4)

**Calle 10 No 5 – 51 Palacio de San Carlos**

Dirección correspondencia Carrera 5 No 9 – 03 Edificio Marco Fidel Suárez

PBX 3814000 – Fax 3814747

[www.cancilleria.gov.co](http://www.cancilleria.gov.co) – [contactenos@cancilleria.gov.co](mailto:contactenos@cancilleria.gov.co)

Bogotá D.C., Colombia Sur América



**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME<sup>+</sup>**



6 de mayo 2013

Asunto: Endoso de Costa Rica para el PAE del CLME<sup>+</sup>

En mi calidad de Ministra del Ministerio de Agricultura y Ganadería de Costa Rica, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME<sup>+</sup>).

A handwritten signature in dark ink, appearing to read 'Gloria Abraham Peralta'.

Gloria Abraham Peralta

**Ministerio de Agricultura y Ganadería**



San José, 15 de Mayo de 2013  
DM-351-2013

República de Costa Rica  
Ministerio de Ambiente, Energía y Telecomunicaciones

*Despacho del Ministro*

Señor  
Patrick Debels  
Coordinador Regional  
Colombia  
S.O.

**Asunto: Endoso de Costa Rica para el PAE del CLME<sup>+</sup>**

Estimado Señor: -

En mi calidad de Ministro de Ambiente y Energía de Costa Rica, tengo el agrado de endosar el perfil de proyecto para el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME+).

Atentamente,

Dr. René Castro Salazar  
MINISTRO



C.c. Sr. Jose Lino Chaves López, Vice Ministro de Aguas y Mares, MINAE  
Sr. Ruben Muñoz Robles, Director, Cooperación Internacional, MINAE

Teléfono: (506) 2233-4533 / Ext. 162 ó 163 / Fax: (506) 2257-0697 / Apdo. Postal: 10104-1000

San José, Costa Rica

Correo electrónico: [ministrominae@minaet.go.cr](mailto:ministrominae@minaet.go.cr)

**MINISTERIAL ENDORSEMENT LETTER FOR THE  
CLME<sup>+</sup> STRATEGIC ACTION PROGRAMME**



**COMMONWEALTH OF DOMINICA**

**Ministry of the Environment, Natural Resources,  
Physical Planning & Fisheries**

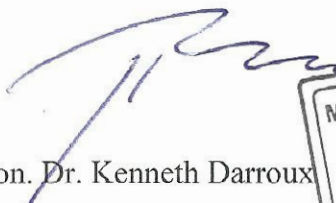
Tel: (767) 266-3544  
Fax: (767) 440-7761  
E-mail: [environment@dominica.gov.dm](mailto:environment@dominica.gov.dm)  
Website: [www.dominica.gov.dm](http://www.dominica.gov.dm)

Government Headquarters  
Kennedy Avenue, Roseau  
Commonwealth of Dominica

May 9, 2013

Subject: Dominica's Endorsement of the CLME<sup>+</sup> SAP

In my capacity as Minister of Ministry of Environment, Natural Resources Physical Planning and Fisheries for Dominica, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

  
Hon. Dr. Kenneth Darroux

Environment, Natural Resources Physical Planning and Fisheries





*"AÑO DEL BICENTENARIO DEL NATALICIO JUAN PABLO DUARTE"*

**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL GRAN ECOSISTEMA  
MARINO DEL CARIBE (CLME)**

Santo Domingo, D. N.

En mi calidad de Ministro de Medio Ambiente y Recursos Naturales de la República Dominicana, he endosado el Programa de Acciones Estratégicas (PAE), para el Manejo Sostenible de los Recursos Marinos Vivos Compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (CLME).

  
DR. BAUTISTA ROJAS GÓMEZ

Ministro



BRG/YAM

yga



República Dominicana

**CONSEJO DOMINICANO DE PESCA Y ACUICULTURA**

Ley 307-04

**"Año del Bicentenario del Natalicio Juan Pablo Duarte"**

DE-0165-13

Santo Domingo, D.N.  
16 de mayo de 2013

**CARTA DE ENDOSO DEL CONSEJO DOMINICANO DE PESCA Y  
ACUICULTURA (CODOPESCA) PARA EL  
PROGRAMA DE ACCIONES ESTRATEGICAS DEL GRAN ECOSISTEMA  
MARINO DEL CARIBE (CLME)**

En mi calidad de Director Ejecutivo del Consejo Dominicano de Pesca y Acuicultura (CODOPESCA), por este medio hago formal endoso del Programa de Acciones Estratégicas (PAE), para el Manejo Sostenible de los Recursos Marinos Vivos Compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (CLME).

  
**Francisco Manuel Frías Olivencia**  
Director Ejecutivo de CODOPESCA

JM/if.-

Ref. No. ....  
In replying the above  
Number and date of this  
letter should be quoted.



MINISTRY OF AGRICULTURE,  
FORESTRY AND FISHERIES  
MINISTERIAL COMPLEX  
BOTANICAL GARDENS  
ST. GEORGE'S  
GRENADA, W.I.

**DATE: 28<sup>th</sup> May 2013**

**MINISTERIAL ENDORSEMENT LETTER FOR THE  
CLME<sup>+</sup> STRATEGIC ACTION PROGRAMME**

**Subject: Grenada's Endorsement of the CLME<sup>+</sup> SAP**

In my capacity as Minister of Agriculture, Lands, Forestry, Fisheries and the Environment, Grenada, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

*P.R.*  
.....  
**HON. ROLAND BHOOLA**  
**MINISTER OF AGRICULTURE, LANDS,**  
**FORESTRY, FISHERIES AND THE ENVIRONMENT**





Gobierno de Guatemala

Ministerio de Agricultura  
Ganadería y Alimentación

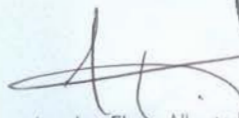
Dirección de Normatividad  
de la Pesca y Acuicultura

Guatemala 30 de abril de 2013

Asunto: Endoso de Guatemala para el PAE del CLME<sup>+</sup>

En mi calidad de Ministro del Ministerio de Agricultura, Ganadería y Alimentación -MAGA-. Yo, Elmer Alberto López Rodríguez de Guatemala, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME<sup>+</sup>).



  
Ing. Agr. Elmer Alberto López Rodríguez  
Ministro de Agricultura  
Ganadería y Alimentación

Km 22 Carretera al Pacífico, Edificio La Ceiba, tercer nivel  
Tel: 6640-9329 Fax: 6640-9324

[unipesca04@yahoo.com.mx](mailto:unipesca04@yahoo.com.mx)



# Minister of Agriculture

Ministry of Agriculture - Shiv Chanderpaul Drive & Regent Street.

Tel: 592-227-5049, 223-7291, 225-8310 Fax: (592) 227 3638

Email: [ministerofagriculture@gmail.com](mailto:ministerofagriculture@gmail.com)

---

## MINISTERIAL ENDORSEMENT LETTER FOR THE CLME<sup>+</sup> STRATEGIC ACTION PROGRAMME

May 7, 2013

Subject: Guyana's Endorsement of the CLME<sup>+</sup> SAP

In my capacity as Minister of the Ministry of Agriculture for Guyana, I endorse the Strategic Action Programme for the Sustainable Management of the Shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

Dr. Leslie Ramsammy  
Minister of Agriculture of Guyana



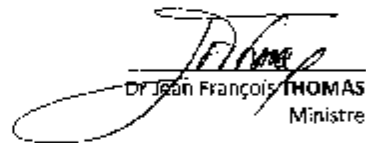
## MINISTÈRE DE L'ENVIRONNEMENT

MDE/JFT/BM-yjl/PAE-CLME/013500

Port-au-Prince, le .....  
24 juin 2013

### Endossement de la République d'Haïti

En ma qualité de Ministre de l'Environnement de la République d'Haïti, j'ai endossé le Programme d'Actions Stratégiques pour la Gestion Durable des Ressources Marines Vivantes communes des Grands Ecosystèmes Marins de la Mer des Caraïbes et de la Plate-forme du Nord Brésilien (PAE du CLME).

  
Dr Jean François THOMAS  
Ministre



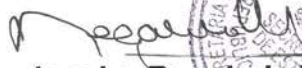
Del Despacho del Señor  
Secretario

SECRETARIA DE ESTADO EN LOS DESPACHOS DE AGRICULTURA Y GANADERIA  
REPUBLICA DE HONDURAS

Tegucigalpa, M.D.C.,  
22 de mayo, 2013.

***Asunto: Endoso de Honduras para el PAE del CLME***

En mi calidad de Secretario de Estado en los Despachos de Agricultura y Ganadería (SAG) de Honduras, declaro que por este acto, Endoso el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME)).

  
**Jacobo Regalado W.**  
Secretario de Estado



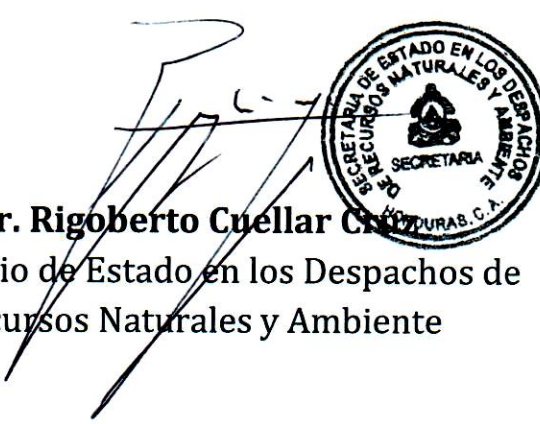
## CARTA DE ENDOSO MINISTERIAL PARA EL PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME



[ 27 de mayo del 2013 ]

Asunto: Endoso de Honduras para el PAE del CLME

En mi calidad de Secretario de Estado en los Despachos de Recursos Naturales y Ambiente de Honduras, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME)



**Dr. Rigoberto Cuellar**  
Secretario de Estado en los Despachos de  
Recursos Naturales y Ambiente

The signature and circular official stamp of Dr. Rigoberto Cuellar, Secretary of State in the Dispatches of Natural Resources and Environment, are visible. The stamp contains the text "SECRETARIA DE ESTADO EN LOS DESPACHOS DE RECURSOS NATURALES Y AMBIENTE" and "SECRETARIA" with a small emblem in the center.



Telephone: (876) 977-6486  
Facsimile: (876) 927-1785

ANY REPLY OR SUBSEQUENT  
REFERENCE TO THIS COMMUNICATION  
SHOULD BE ADDRESSED TO THE  
PERMANENT SECRETARY AND THE  
FOLLOWING REFERENCE QUOTED  
REF \_\_\_\_\_

MINISTRY OF AGRICULTURE & FISHERIES

HOPE GARDENS

KINGSTON 6

JAMAICA

[www.moa.gov.jm](http://www.moa.gov.jm)

May 27, 2013

**MINISTERIAL ENDORSEMENT LETTER FOR THE  
CLME+ STRATEGIC ACTION PROGRAMME**

**Subject: Jamaica's Endorsement of the CLME+ SAP**

In my capacity as Minister of the Ministry of Agriculture and Fisheries for Jamaica, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME+ SAP).

Honourable Roger Clarke, M.P.  
Ministry of Agriculture and Fisheries



**OFFICE OF THE MINISTER**

Tel: #s (876) 926-1690-3  
(876) 926-1590-9  
Fax: (876) 754-2855  
Email: Robert.pickersgill@mwh.gov.im

**MINISTRY OF WATER, LAND,  
ENVIRONMENT, AND CLIMATE CHANGE**  
25 Dominica Drive  
Kingston 5  
Jamaica, W.I.

30<sup>th</sup> May 2013

**Re: Jamaica's Endorsement of the CLME+ SAP**

In my capacity as Minister of Water, Land, Environment and Climate Change for Jamaica, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME+SAP)

  
.....  
Robert D. Pickersgill  
Minister

Oficio No. SPPA/338 /2013.

México, D.F. a 2 de septiembre de 2013.

**Asunto: Endoso Gran Ecosistema Marino del  
Gran Caribe.**

**MR. PATRICK DEBELES**

**UNIDAD DE COORDINACIÓN DEL PROYECTO DEL GRAN ECOSISTEMA MARINO DEL GRAN CARIBE  
COORDINADOR REGIONAL DE PROYECTO  
PRESENTE.**

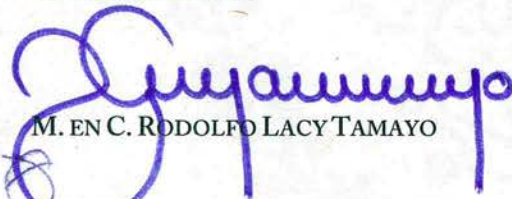
Con relación a la "Carta de Endoso Ministerial para el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME+)", le comento lo siguiente.

En mi calidad de Punto Focal Operacional Técnico para México y por designación del Titular de la Secretaría de Medio Ambiente y Recursos Naturales de México, le comunico que después de haberlo revisado, esta dependencia endosa el PAE del CLME+, esperando que en la siguiente fase se logre con éxito la ejecución de las acciones acordadas mutuamente con el resto de los países de la región.

Sin otro particular, aprovecho la ocasión para enviarle un cordial saludo.

**ATENTAMENTE**

**EL SUBSECRETARIO**



**M. EN C. RODOLFO LACY TAMAYO**

C.e.p. Ing. Juan José Guerra Abud. Titular de la Secretaría de Medio Ambiente y Recursos Naturales.

Lic. Wilhealdo David Cruz Bressant. Jefe de la Unidad Coordinadora de Asuntos Jurídicos de la SEMARNAT.

Lic. Enrique Lendo Fuentes. Jefe de la Unidad Coordinadora de Asuntos Internacionales de la SEMARNAT.

Dr. Antonio J. Díaz de León Corral. Director General de Política Ambiental e Integración Regional y Sectorial de la SEMARNAT.

ADL/SDM





**MINISTRY OF AGRICULTURE, TRADE, LANDS, HOUSING AND THE ENVIRONMENT**

**P.O. Box 272**

**Brades**

**Montserrat**

**West Indies**

**Tel: (664)-491-2546/2075**

**Fax: (664)-491-9275**

**E-Mail: [malhe@gov.ms](mailto:malhe@gov.ms)**

23<sup>rd</sup> May 2016

MATLHE 5/1

Mr. Patrick Debels

Regional Project Coordinator

CLME+ Project (UNDP/GEF)

Edificio Chambacú - Oficina 405, Cra 13B# 26-78

Sector Torices, Cartagena, Colombia

Dear Mr. Debels,

**Government of Montserrat – Endorsement of the Caribbean Large Marine Ecosystems  
and Adjacent Regions, Strategic Action Programme (CLME+SAP)**

As the Cabinet Minister of Agriculture, Trade, Land, Housing and the Environment, I welcome the honour to endorse on behalf of the Government of Montserrat, the Caribbean Large Marine Ecosystems and Adjacent Regions, Strategic Action Programme (CLME+SAP) for the Sustainable Management of the shared Living Marine Resources in the Caribbean and North Brazil Self Large Marine Ecosystems (UNDP/GEF ID 5542 referred).

I understand that Montserrat can benefit at the national level and also in the context of potential arrangements with the other Overseas Countries and Territories (OCTs) within the wider Caribbean region from this and other projects relating to the Ocean, Ocean Resources Management and Spatial planning. It is agreed that my technical team will work out the details of the project interventions best suited for Montserrat directly with your coordinating unit. Our National Focal Point for this programme will be our Department of Fisheries ([agridept@gov.ms](mailto:agridept@gov.ms)) with the assigned national focal point person as Mr Alwyn Ponteen, Chief Fisheries and Ocean's Governance Officer ([ponteen@gov.ms](mailto:ponteen@gov.ms)).

We would wish to be systematically informed and engaged in the provision of inputs/exchanges/comments on CLME+SAP activities, products and progress; and I therefore invite you to direct all formal communications for our National Focal Point to my Ministry's headquarters to:

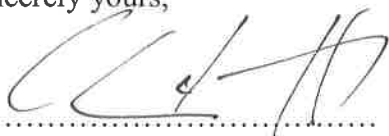
2/...Mrs. Daphne Cassell

Mrs. Daphne Cassell (cassell@gov.ms & malhe@gov.ms)  
Permanent Secretary  
Ministry of Agriculture, Trade, Lands, Housing and the Environment  
P O Box 272  
Brades, MSR 1110  
Montserrat  
West Indies

The other contact details for the National Focal Point (NFP) persons and institutions have been made available to you under separate cover; and I am of course always at your disposal in support of this endeavour.

Please accept assurances of my highest consideration.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'Claude E S Hogan', written over a horizontal dotted line.

**Claude E S Hogan Esq.**  
Honourable Minister, MATLHE

CESH/SCR/scr

**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME<sup>+</sup>**



Managua, 22 de Mayo de 2013.

**Asunto: Endoso de NICARAGUA para el PAE del CLME**

En mi calidad de Ministro del Instituto Nicaragüense de la Pesca y Acuicultura de NICARAGUA, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME).

Consideramos que este proyecto por su magnitud y alcances en el Caribe y Centro América fortalecerá las capacidades Regionales y del Caribe en el Manejo y Aprovechamiento Sostenible de los recursos pesqueros y promoverá la conservación del entorno marino vital para los organismos que lo habitan.

  
**Steadman Fagot Muller**  
**Instituto Nicaragüense de la Pesca y Acuicultura**  
**INPESCA**





**REPÚBLICA DE PANAMÁ**

**Ministerio de Desarrollo Agropecuario  
Despacho del Ministro**

15 de mayo de 2013  
DM-1506-2013

Señores  
**GRAN ECOSISTEMA DEL CARIBE  
PLATAFORMA DEL NORTE DE BRASIL**

*Asunto: Endoso de Panamá para el PAE del CLME*

Señores:

En mi calidad de Ministro de Desarrollo Agropecuario de Panamá, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME+).

Atentamente,

**OSCAR A. OSORIO C.**  
Ministro de Desarrollo Agropecuario  
Panamá





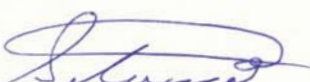
**CARTA DE ENDOSO MINISTERIAL PARA EL  
PROGRAMA DE ACCIONES ESTRATÉGICAS DEL CLME<sup>+</sup>**



22 de julio de 2013

Asunto: Endoso de Panamá para el PAE del CLME<sup>+</sup>

En mi calidad de Ministro de Autoridad Nacional del Ambiente de Panamá, he endosado el Programa de Acciones Estratégicas para el Manejo Sostenible de los Recursos Marinos Vivos compartidos de los Grandes Ecosistemas Marinos del Mar Caribe y de la Plataforma del Norte de Brasil (PAE del CLME<sup>+</sup>).

  
SILVANO VERGARA

Ministro de Estado





SAINT CHRISTOPHER AND NEVIS  
MINISTRY OF AGRICULTURE, MARINE RESOURCES AND COOPERATIVES

Tel: (869)465-2521 ext 1016/1017  
Fax: (869)465-2635  
E-mails: [hafcca@gmail.com](mailto:hafcca@gmail.com)

GOVERNMENT HEADQUARTERS  
P O BOX 186  
CHURCH STREET  
BASSETERRE  
ST KITTS • WEST INDIES

May 3, 2013

Patrick Debels  
Regional Project Coordinator  
CLME Project Coordination Unit (c/o IOCARIBE)  
Casa del Marqués de Valdehoyos  
Calle de la Factoría # 36-57  
Centro Histórico, Cartagena de Indias  
Colombia

**Re: St. Kitts and Nevis Endorsement of the CLME+SAP**

Dear Sir:

In my capacity as the Minister of Agriculture, Marine Resources and Cooperatives, I endorse the "Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems" (CLME+ SAP).

Additionally, I would like to take this opportunity to wish you success in the implementation phase of the CLME+SAP.

Best regards,

  
Honourable Nigel Carty  
Minister of Agriculture, Marine Resources & Cooperatives





GOVERNMENT OF SAINT LUCIA

Communications on this subject  
should be addressed to:

**THE HONOURABLE MINISTER**  
and the following Number  
quoted:

# Ministry of Agriculture, Food Production, Fisheries and Rural Development

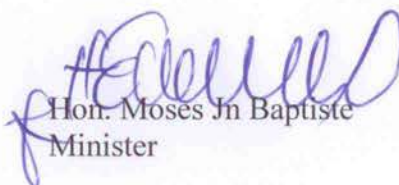
5th Floor, Sir Stanislaus James Building  
Castries, Saint Lucia



May 29, 2013

Subject: Saint Lucia's Endorsement of the CLME<sup>+</sup> SAP

In my capacity as Minister for Agriculture, Food Production, Fisheries and Rural Development for Saint Lucia, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

  
Hon. Moses Jn Baptiste  
Minister



**GOVERNMENT OF ST. VINCENT AND THE GRENADINES  
MINISTRY OF AGRICULTURE, RURAL TRANSFORMATION,  
FORESTRY AND FISHERIES**

RICHMOND HILL

KINGSTOWN

VC0120

*St. Vincent and the Grenadines*

Ref: ARTFF/

5<sup>th</sup> July, 2013

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**TO WHOM IT MAY CONCERN**

**SAINT VINCENT AND THE GRENADINES ENDORSEMENT OF THE CLME SAP**

In my capacity as Minister of Agriculture, Rural Transformation, Forestry, Fisheries and Industry for St. Vincent and the Grenadines, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

Yours truly,

**Hon. Saboto Caesar**

**Minister of Agriculture, Rural Transformation,  
Forestry, Fisheries and Industry**



**Ministerie van Arbeid,  
Technologische Ontwikkeling en Milieu**

Ministry of Labour,  
Technological Development and Environment

Wagenwegstraat no.22 - Tel.: 475241  
e-mail: [ministeratm@atm.sr.org](mailto:ministeratm@atm.sr.org) of [arbeid@sr.net](mailto:arbeid@sr.net)  
Paramaribo - Suriname



Uw kenmerk:

Uw brief van:

Ons kenmerk: *AJM1228/13*

Bijlage(n):

Paramaribo: 28 May 2013

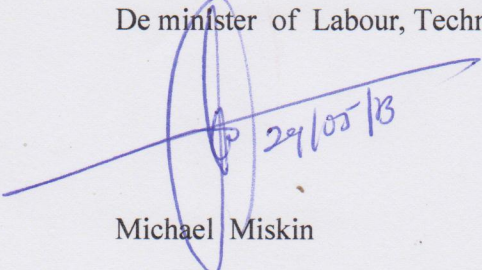
Mr. Patrick Debels  
[patrickd@unopf.org](mailto:patrickd@unopf.org)

**Subject: Suriname's Endorsement of the CLME+ SAP**

Dear Sir,

In my capacity as Minister of Labour, Technological Development and Environment for Suriname, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME+SAP).

De minister of Labour, Technological Development and Environment,

  
Michael Miskin



## Ministry of Agriculture, Animal Husbandry and Fisheries

Lelitia Vriesdelaan 8—10 Paramaribo— Suriname Telefoonnr. (597) 479112 / Faxnr. (597) 470301

E-mail: [dirlvv@sr.net](mailto:dirlvv@sr.net) / Website: [www.minlvv.sr.org](http://www.minlvv.sr.org)



Paramaribo, 12 August 2013

**Mr. Patrick Debels**  
[patrickd@unopf.org](mailto:patrickd@unopf.org)

**Subject** : Endorsement of the CLME+SAP by Suriname  
**Our file** : 3472/13  
**Appendix** :

Dear Sir,

In my capacity as Minister of Agriculture, Animal Husbandry and Fisheries for Suriname, I endorse the Strategic Action Programme for the Sustainable Management of the Shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME+SAP).

The Minister of Agriculture, Animal Husbandry and Fisheries  
**Hendrik S. Setrowidjojo**



**Office of the Honourable Minister**

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Ministry of the Environment and Water Resources  
Level 26, Tower D, International Waterfront Complex  
Wrightson Road, Port of Spain  
Tel: 623-3158 Ext 251

**EWR(EPPD): 13/2/11**

**February 7, 2014**

Mr. Patrick Debels  
Regional Project Coordinator  
CLME Project  
Cartagena  
Colombia

Dear Mr. Debels,

**Re: Government of the Republic of Trinidad and Tobago's Endorsement of the Caribbean Large Marine Ecosystem and Adjacent Regions (CLME<sup>+</sup>) Strategic Action Programme (SAP).**

In my capacity as Minister of the Environment and Water Resources for the Government of the Republic of Trinidad and Tobago, I endorse the Strategic Action Programme for the Sustainable Management of the Shared Living Marine Resources of the Caribbean and North Brazil Shelf Marine Ecosystems (CLME<sup>+</sup> SAP).

Sincerely,

***Senator the Honourable Ganga Singh***  
Minister



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
1315 East-West Highway  
Silver Spring, Maryland 20910  
THE DIRECTOR

May 29, 2013

**Subject: United States of America's Endorsement of the CLME<sup>+</sup> SAP**

In my capacity as Acting Assistant Administrator for Fisheries of the National Oceanic and Atmospheric Administration of the United States of America, I endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP), with the caveat that our concerns and suggestions with respect to the Annexes are given full consideration. Our concerns are outlined in the attached document.

Samuel D. Rauch III  
Acting Assistant Administrator  
National Marine Fisheries Service  
National Oceanic and Atmospheric Administration  
United States Department of Commerce



Printed on Recycled Paper

THE ASSISTANT ADMINISTRATOR  
FOR FISHERIES



### U.S Comments on the CLME SAP's Annexes

The United States did not receive, and therefore had no chance to review, many of the Annexes to the CLME SAP prior to its distribution as a final document. As such, we have the following comments on some of the content found in those sections:

- **Annex 1** – Binding language remains in this Annex that we request be changed to non-binding language. There are five uses of the word “shall” and two uses of the word “must” that we request be changed to “should” in all locations as the SAP is a non-legally binding document.
- **Annex 3** – In Annex 3-2, the first bullet point states that “a third regional-level Strategy is required to ensure that both Strategy 1 and Strategy 2 are coordinated and mutually synergetic.” We request removing the words “*is required*,” and request substituting “*would be helpful*.”
- **Annex 7** – In Annex 7-4, there’s an indicator on “Levels of Ratification of International and Regional Agreements Relevant to the sLMR Governance and Management.” One of the targets for that indicator is the following: “At least 50% increase in ratification levels of the 3 Cartagena Convention protocols and other relevant international agreements such as Basel Convention, MARPOL, and CBD (baseline = ratification levels at SAP initiation) within first 5 years of SAP.” We request that the specific agreements mentioned in this target be removed and the sentence be edited as follows: “At least 50% increase in ratification levels of agreements relevant to the protection of the marine environment in the Wider Caribbean Region within first 5 years of SAP.”
- **Figures 1 & 2** – Figures 1 (page viii) and 2 (page 8) are based on the extent of the 200m isobaths. We noted previously that this geographic feature is not the same as the 200 nautical-mile (nmi) Exclusive Economic Zone under the Law of the Sea Convention. We recommend that the 200 nmi standard be used instead of the 200m isobath line.

## **ANNEX 9 – SAP ENDORSEMENT - CRFM MINISTERIAL COUNCIL**



# CARIBBEAN REGIONAL FISHERIES MECHANISM SECRETARIAT

P.O. Box 642, Princess Margaret Drive, Belize City, Belize, C.A.  
Tel: 501-223-4443 Fax: 501-223-4446  
e-mail: [crfm@btl.net](mailto:crfm@btl.net)

31 MAY 2013

**SUBJECT: ENDORSEMENT LETTER FOR THE CLME<sup>+</sup> STRATEGIC ACTION  
PROGRAMME**

We the Members of the Caribbean Regional Fisheries Mechanism Ministerial Council participating in the Seventh meeting of the Council, Barbados, May 31, 2013, hereby endorse the Strategic Action Programme for the Sustainable Management of the shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME<sup>+</sup> SAP).

Chairman  
Ministerial Council

  
Bahamas  
Belize  
Dominica  
Grenada  
Guyana  
Jamaica  
Montserrat  
St. Kitts and Nevis  
St. Lucia  
St. Vincent and the Grenadines  
Trinidad and Tobago

