BACKGROUND
Around 33 states and territories share the same priorities regarding to marine resources management, and many of the same challenges towards data access and data management. Critical goods and services provided by the marine environment in the Caribbean are at risk because of threats including weak governance, mismanagement, climate change and inadequate incorporation of data in decision-making. Highly vulnerable countries to impacts affecting marine and coastal resources (sea level rise, habitat degradation, overfishing and pollution).
Reliable, scale and time-relevant, scientifically robust data and information are required for different stages of the ICZM.

**OBJECTIVE**

To identify, collect and organize available geo-spatial datasets into an atlas of environmental themes for the Caribbean region, under the sponsorship of the Intergovernmental Oceanographic Commission's (IOC) International Oceanographic Data and Information Exchange (IODE) and Integrated Coastal Area Management (ICAM) Programs.

Geo-spatial data from national and regional projects and programs, related to the sustainable development and ICZM in the region.

For further information on the CMA project see:

www.caribbeanmarineatlas.org
CMA TIMELINE

Phase 1 (2009-2013)
Caribbean Marine Atlas Review and Planning Meeting (Miami, December 2013)

National portals of spatial data
Barbados – Coordinator
Cuba, Dominica, Grenada, Guyana, Jamaica, St Lucia, Trinidad & Tobago and Turks & Caicos

Phase 2 (2015-2017)
Caribbean Marine Atlas (CMA2) Review and Planning Workshop (Miami, August 2014)

Regional platform with indicators
Colombia (INVEMAR) - Coordinator

Caribbean Marine Atlas Phase 2 (CMA2) works from 2013 in sustainable operationalization of an online digital “Caribbean Marine Atlas” technology platform.
CMA2 PROJECT BUILDS UPON ...

Collaborative approach with existing national, regional and international marine data and information management

Experience

Strategic synergies

Opportunities
CMA2 COUNTRY PARTNERS

- Barbados
- Belize
- Colombia
- Dominica
- Guatemala
- Jamaica
- Mexico
- Panama
- Trinidad and Tobago
- Dominican Republic
- Turks & Caicos Isl.
- Venezuela
Sustainable operationalization of an online digital “Caribbean Marine Atlas” technology platform in support of Integrated Coastal Zone Management (ICZM) and Ecosystem-based Management for CLME.

With special attention to: coastal hazards, climate change, biodiversity & habitats, fisheries, land-based sources of pollution.

Platform in implementation in selected countries for regional and national level consultation and decision making. Training, awareness building and dissemination activities is conducted.
SPECIFIC OBJECTIVES

**SO1:** To provide and operate an information discovery, Decision-Support (DS)/Monitoring & Evaluation (M&E) mechanism for improved ICZM, in up to 7 pilot countries, based on state-of-the-art technology for the online publication, management and exchange of spatial data/information layers and ICZM best practices/tools.

**SO2:** To contribute with the DS/M&E mechanisms at Caribbean Large Marine Ecosystem level through join efforts with CLME+.

**SO3:** To enhance awareness, capacity and participation of key regional - and national-level stakeholders (both data users and data providers) in the development and use of the information discovery, DS and M&E mechanisms.

**SO4:** To provide a mechanisms for seeking and acting on feedback to encourage both partners and stakeholders involvement with project milestone events, activities and results, based on the communication plan.
CMA2 complements and is completely synergistic with the actions and activities of other projects and initiatives linked to the implementation of this CLME + SAP.
<table>
<thead>
<tr>
<th>Execution and financial support</th>
<th>Regional coordination</th>
<th>National coordination</th>
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<tr>
<td>• IOC/IODE</td>
<td>• INVEMAR – (Colombia)</td>
<td>• National Focal Point (NFP) / Country</td>
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RESULTS AND PRODUCTS

From a detailed work plan generated:

**SO1:** Online publication, management and exchange of spatial data/information layers and ICZM

- Online Technology Platform (CMA interface) for supporting ICZM-related DS and M&E processes in at least 7 countries.
- Inventory of critical/priority (geospatial) data sets/information layers (with indication of associated relevant disciplines) required supporting ICZM-related DS and M&E processes.
- Collection & repository of key/priority data sets and information layers (both raw data sets and derived products), with corresponding metadata, tailored to the results from a participatory priority-setting exercise.

**SO2:** Join efforts with CLME+

- Work plan 2017

**SO3:** To enhance awareness, capacity and participation of key regional - and national-level stakeholders in the development and use of the information discovery

- Training - Set of training, incl. workshop regionals and nationals
- Prototype (promotional) Marine Atlas on the Status of the Coastal Zone (environmental/ecosystem status indicators and socio-economic indicators), existing and potential risks and threats, and its management (process indicators and stress reduction indicators), for each of the selected pilot countries
- Final Report – Lessons learnt /best practices recommendations for sustainability/up-scaling of results

**SO4:** Communication plan

- Coordinate communication activities with the target audience from project events and results

Deliverables
RESULTS AND PRODUCTS

SO1: Online Technology Platform (CMA interface): definition, imaging, prototype, construction

Web page
- Docs
- Calendar
- News

Catalog
- Search
- Filters

Atlas
- Thematic layers
- Maps
- Indicators

Atlas directory
Metadata
10 thematic maps
E-repository
RESULTS AND PRODUCTS

SO3:

• GeoNode training on line for CMA2 pilot countries (at least one/pilot country)
• Inventory of problems, limitations and strength to solve
• Indicators process (selection, HM definition, data collection and publishing)
• Sharing lessons learnt, best practices identified, recommendations for up-scaling, sustainability strategy (IODE projects)
RESULTS AND PRODUCTS

SO4:

• Project brochure
• Steering group meeting
• Status reports
• Final report