

18th

SESSION IOCARIBE



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Intergovernmental
Oceanographic
Commission

Sub-Commission for the Caribbean
and Adjacent Regions

Subcomisión para el Caribe y
Regiones Adyacentes

IOCARIBE TECHNICAL SCIENCE MEETING AND DIALOGUE

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Brasilia, Brazil
April 23–25, 2025

A WARMING OCEAN IN THE CARIBBEAN REGION: THE COASTPREDICT SOLUTION

OUTLINE

UN DECADE COASTPREDICT PROGRAMME

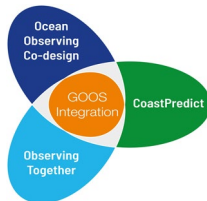
THE GLOBALCOAST FRAMEWORK

THE IOCARIBE PROJECT FOR ADAPTATION FUND

Ocean Decade Programme



**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development



Objective

*Provide decision-makers and coastal communities with integrated observing and predicting systems to **identify solutions for managing risk in the short-term and planning for mitigation and adaptation in the longer-term***

<https://www.youtube.com/watch?v=1PmcbT7G0IY>

The CoastPredict implementation: GlobalCoast

GlobalCoast Network

130 Pilot Sites
66 countries

Memorandum of Understanding

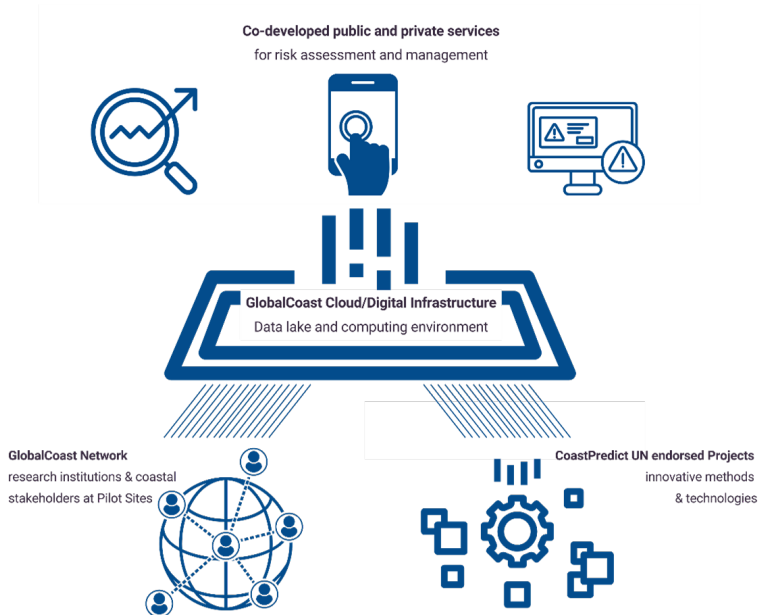
between Pilot Sites



GlobalCoast Framework for Solutions

This framework allows :

- harness opportunities
- overcome barriers
- connect the work globally
- enable public-private collaboration
- replicable solutions
- engage cloud technology to support services

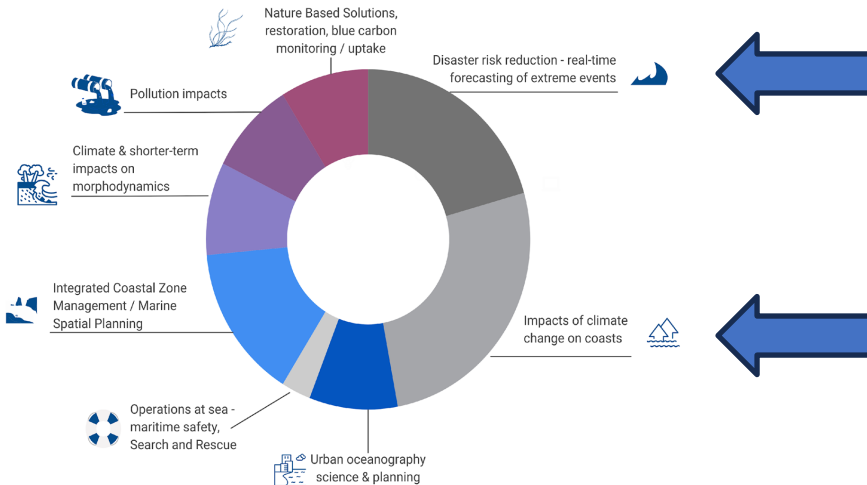


What are the priority 'impact areas' for the region?

Based on priorities noted for Pilot Sites in the GlobalCoast survey

CARIBBEAN: PRIORITY IMPACT AREAS

Based on the priorities noted for Pilot Sites in GlobalCoast survey



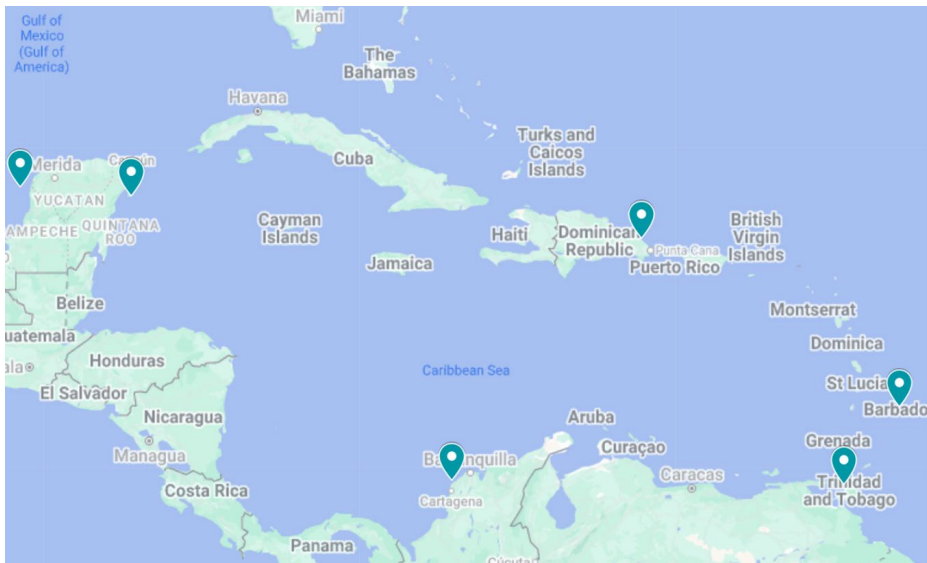
GlobalCoast implementation: a Project to the Adaptation Fund

Starting Caribbean Project Partners

5 countries

Barbados
Colombia
Dominican Republic
Mexico
Trinidad & Tobago

6 Pilot Sites



Starting Caribbean Project partners

- **Barbados:**
Caribbean Institute for Meteorology and Hydrology
Barbados Coastal Zone Management Unit
- **Colombia:** DIMAR-CIOH Oceanographic Research Center
- **Dominican Republic:** Instituto Dominicano de Meteorología (INDOMET)
- **Mexico:** CICESE, Cinvestav
- **Trinidad & Tobago:** Institute of Marine Affairs
- **Regional:** IOCARIBE, University of the West Indies, CARICOOS, WMO Regional Association
- **International:** SOCIB, CMCC, UNISA, NOC, CEOS COAST etc.

What are the benefits?

- Enhance regional capacity to improve community resilience to climate, ocean and coastal hazards;
- Develop advanced **coastal observing and predicting** system in beneficiary countries to support SDG-14 and planning of adaptation strategies and actions for coastal resilience;
- **Establish fundamental coastal risk assessment and management tools** in alignment with UNFCCC and Global Biodiversity Framework;
- **Strengthen and complement** existing adaptation activities and projects;
- **Connect solutions for Small Island Developing States across the GlobalCoast Network.**

Consultations with Caribbean partners, regional and country representatives

**+ internal consultation
with IOC-UNESCO**

- **GlobalCoast Survey (July-Dec 2023)** and follow-ups about needs and priorities for the different regions
- **IOC Executive Council-57 meeting Paris: consultation with Member States in 3 regions, June 2024**
- **Consultation with Pilot Site partners in regions, July 2024 - ongoing**
- **Presentation to IOCARIBE-GOOS Working Group, Nov 2024**

Project Components (common with other GlobalCoast regions)



OBSERVING for
HAZARD
ASSESSMENT

01



MULTI-HAZARD
PEOPLE-
CENTERED
EARLY WARNING
SYSTEMS

02



COASTAL
CLIMATE
DOWNSCALING
AND CLIMATE
INDICATORS

03



DECISION
SUPPORT
SYSTEMS FOR
RESILIENCE

04



KNOWLEDGE
EXCHANGE,
TRAINING AND
INSTITUTIONAL
FRAMEWORKS

05

WAY FORWARD

- a. Acknowledge the GlobalCoast / CoastPredict initiative and ensure its alignment with regional priorities for coastal resilience, operational oceanography, and stakeholder collaboration.
- b. Support regional ownership by developing coastal pilot sites and incorporating them into the GlobalCoast Network Memorandum of Understanding.
- c. Strengthen coordination mechanisms in Areas of National Jurisdiction, as emphasized by the OONJ group endorsed by the IOC Assembly (2023).
- d. Endorse regional activities advancing the GlobalCoast / CoastPredict initiative and align them with national and regional priorities.
- e. Support the Adaptation Fund proposal under the GlobalCoast / CoastPredict Decade Programme.

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**THANK YOU
MUCHAS GRACIAS
MERCI BEAUCOUP**