



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission

XXXI IOC Assembly

3.3.3 IOC of UNESCO Subcommittee for the Caribbean and Adjacent Regions 16th Session of IOCARIBE, 3-6 May 2021

Mr. Arnulfo Sanchez
IOCARIBE CHAIRMAN



@IOCARIBEOCEAN

iocaribe.ioc-unesco.org

Sixteenth Session of the IOC (of UNESCO)
Sub-Commission for the Caribbean and Adjacent Regions
Virtual Meeting



OBSERVING SYSTEM / DATA MANAGEMENT

Maintain, strengthen and integrate global ocean observing, data and information systems

Initiatives to Improve Member States Hurricane and Coastal Inundation Observing Forecasting Capacity

IOCARIBE GOOS establishment of a pilot project on Improvement of Hurricane Observing Forecasting Capacity

Partners: National Ocean-Met Services, Universities and Research Institutions, WMO Rutgers University, US Virgin Islands University, Texas A&M

UN Decade Initiative for IOCARIBE “Transformative Ocean Observing for Hurricane Forecasting, Readiness, and Response in the Caribbean Tropical Storm Corridor”



IOCARIBE is working with IOC CARIBE-EWS and Partners, including WMO and National Agencies in a **Coastal Inundation Forecasting Initiative** which will develop and disseminate an operational system to forecast coastal inundation and flooding to help save lives and protect property, especially in low lying coastal areas.

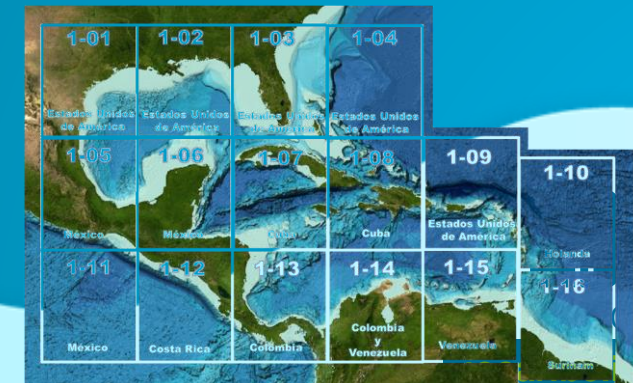
OBSERVING SYSTEM / DATA MANAGEMENT

Maintain, strengthen and integrate global ocean observing, data and information systems

IOCARIBE & MACHC Seabed 2030 Strategy – IOCARIBE and IHO Meso-American and Caribbean Sea Hydrographic Commission – MACHC Member States developed a strategy (December 2020, January 2021) to complete baseline seabed map of the MACHC/ IOCARIBE Region by 2030 that informs the sustainable, multi-purpose use of this region of the Ocean, as a **contribution to the Nippon Foundation GEBCO Seabed 2030 Project** and the **UN Decade**.



IBCCA- International Bathymetric Chart of the Caribbean and the Gulf of Mexico updated final version issued December 2020



EARLY WARNING AND SERVICES

Develop early warning systems and preparedness to mitigate the risks of tsunamis and ocean-related hazards

SARGASSUM MONITORING / FORECASTING SYSTEM

Sargassum Monitoring / Forecasting System

Under development with partners (NOAA, UNEP CAR CU)

Sargassum Webinar Series with IOC Partners UNEP, GESAMP, GlobalHAB, AIR Center, GeoBlue Planet. All Atlantic Alliance, AtlantOS.

IOCARIBE and Partners have established a **Trans-Atlantic collaboration** between IOCARIBE of IOC, IOCARIBE GOOS, GEO Blue Planet, **IOCAFRICA**, UN Environment, Cartagena and Abidjan Convention Secretariats, AtlantOS, the AIR Centre and other partners **to create a sargassum community of practice**. Development of a **Guide on Best Management Practices** for sargassum events in the coastal environment

Sargassum Information Hub launched on 31st July 2020 to provide information about sargassum in the Tropical Atlantic, improve communication among stakeholders, and increase visibility of sargassum activities. (sargassumhub.org). The Hub is open to all stakeholders and scientists worldwide.



EARLY WARNING AND SERVICES

Develop early warning systems and preparedness to mitigate the risks of tsunamis and ocean-related hazards

Oil Spill Monitoring System

A Regional Pilot Programme for Satellite Oil Spill monitoring for the IOCARIBE Region is the first step for the development of a coordinated region-wide monitoring and forecasting system. The pilot started March 2021 in **Trinidad and Tobago**.

Partners: IOCARIBE, NESDIS-NOAA's National Environmental Satellite Data and Information Service, GEO Blue Planet Initiative, RAC-REMPEITC Caribe of UNEP/ CAR-CU. T&T IMA-Institute of Marine Affairs, Ministry of Energy.

Harmful Alga Blooms ANCA

- Implementing IOC Ciguatera Strategy. Development of national standards.
- Capacity Development in **HABs ecology** and related issues.
- Promote **enhanced HAB coordination** among universities, research institutes, the government sector, and the industrial-business sector.
- Support the creation of **public risk management policies** in the event of HAB events

SUSTAINABLE MANAGEMENT AND GOVERNANCE

Enhance ocean governance through a shared knowledge base and improved regional cooperation

MARINE SPATIAL PLANNING

Activities in the IOCARIBE Region.

Under the coordination of IOC / MPR and IOCARIBE and with the support of the EU-MSPGlobal and Sweden a series of workshops and training courses were held in the IOCARIBE Region. Among them:

MSPglobal online seminar on “How to integrate coastal management (ICAM) and Marine Spatial Planning (MSP)?”
(Spanish) 29 April 2020

Marine Spatial Planning and Sustainable Blue Economy in the North-East Tropical Pacific and Wider Caribbean Regions
28 October 2020

Estado actual y perspectivas de la Planificación Espacial Marina y la Economía Azul Sostenible en Guatemala 15 Octubre 2020

Fortaleciendo capacidades en Planificación Espacial Marina y Economía Azul Sostenible Panama 29 Octubre 2020

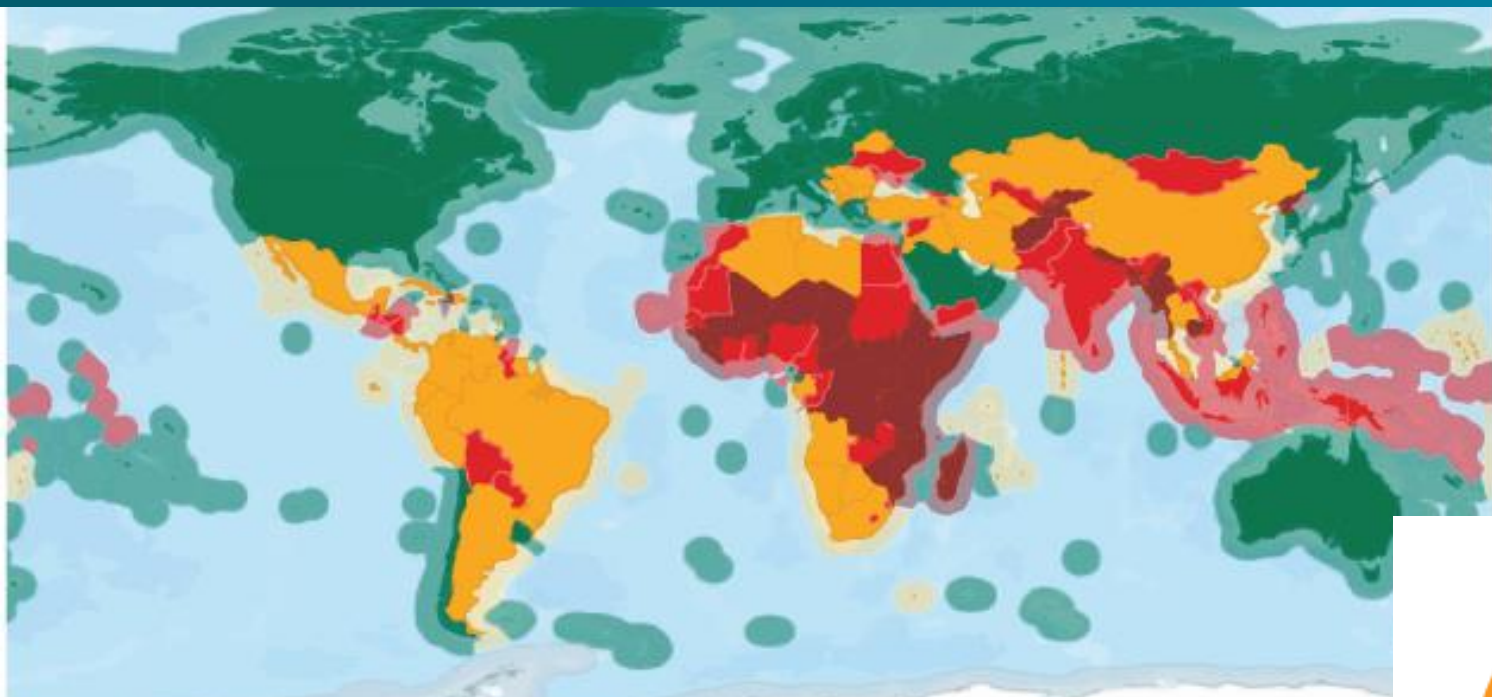
Formación para el desarrollo de capacidades institucionales sobre planificación espacial marina y economía azul en El Salvador 20 Octubre 2020.

Costa Rica en el umbral de la Planificación Espacial Marina y Economía Azul Sostenible 4 Noviembre 2020

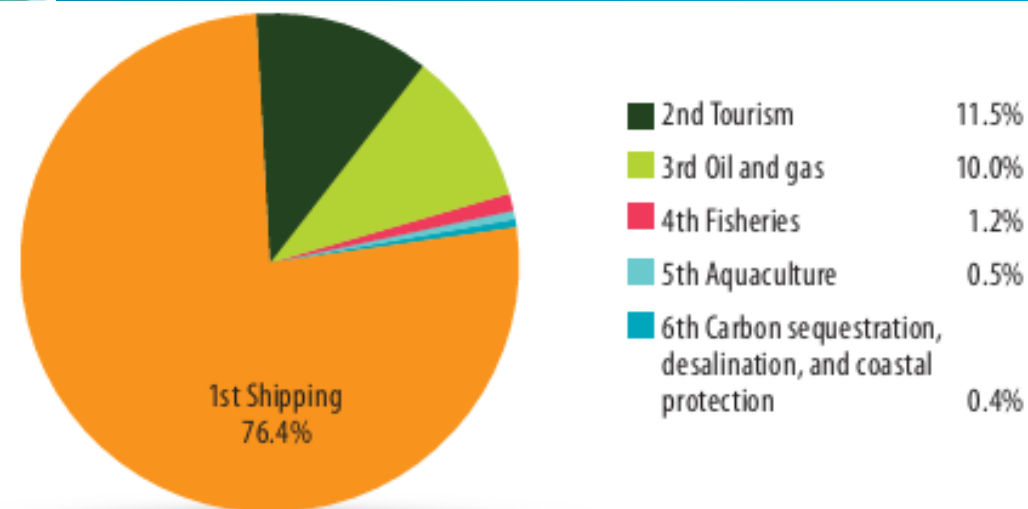
CMA – Caribbean Marine Atlas

CMA_Project successfully implemented by Member States with the support of the Government of Flanders (Kingdom of Belgium). Sustainability Plan developed and endorsed by Partners and MS.

IOCARIBE Member States and regional partners to enhance science and services needed to support a **Sustainable Ocean Economy** within the context of the IOCARIBE Biennial Work Programme and co-designed UN Decade of Ocean Science for Sustainable Development 2021-2030 actions and programmes to achieve SDG 14.

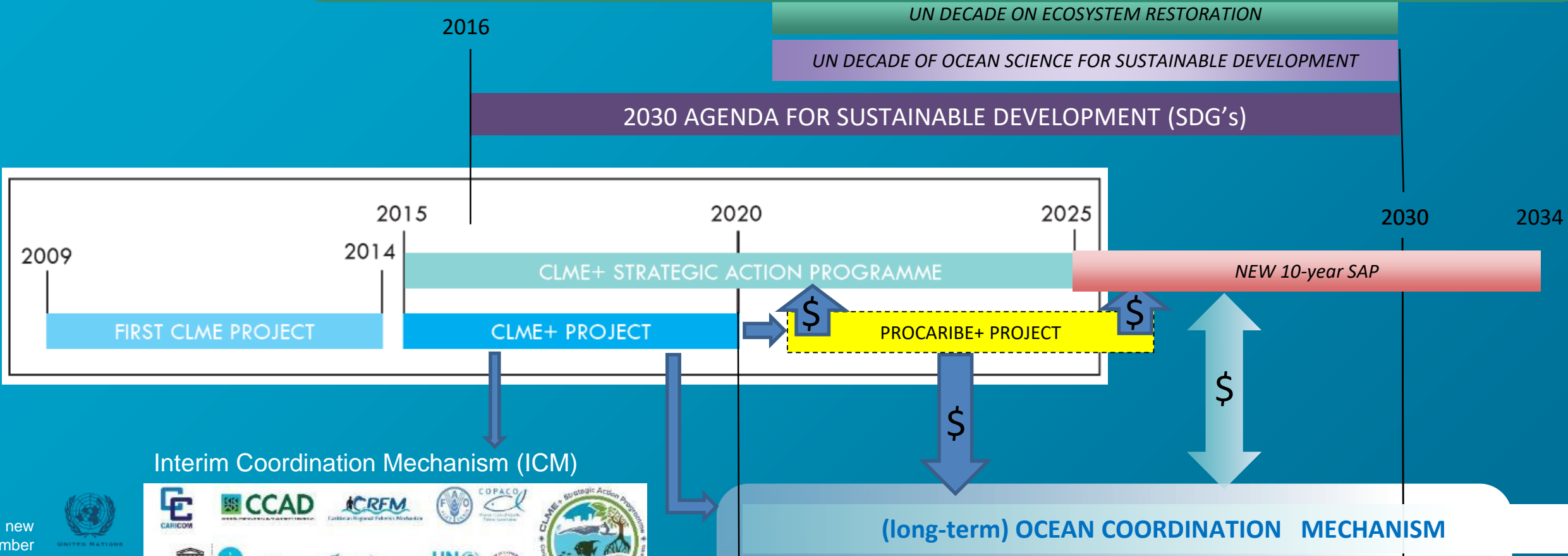


The ocean economy of the Caribbean in 2012 was Dominated by Shipping, Tourism and Oil and Gas industries





Successful implementation by MS, IOCARIBE and partners to date of the UNDP/GEF Project “CLME+: Catalyzing implementation of the Strategic Action Programme (SAP) for the Sustainable Management of Shared Living Marine Resources in the Caribbean and North Brazil Shelf Large Marine Ecosystems.”



Interim Coordination Mechanism (ICM)



Chairmanship: IOCARIBE (till June 2021)
 please visit: www.clmeplus.org/regional-coordination-mechanism

(long-term) OCEAN COORDINATION MECHANISM

Continued implementation of the CLME+ SAP through the proposed new UNDP/GEF Project Concept “**PROCARIBE+:** Protecting and Restoring the Ocean’s Natural Capital, Building Resilience and supporting Region-wide Investments for Sustainable Blue Socio-Economic Development”

new member (2021)



CAPACITY DEVELOPMENT -

Develop the institutional capacity in all of the functions above, as a cross-cutting function



United Nations
Educational, Scientific and
Cultural Organization



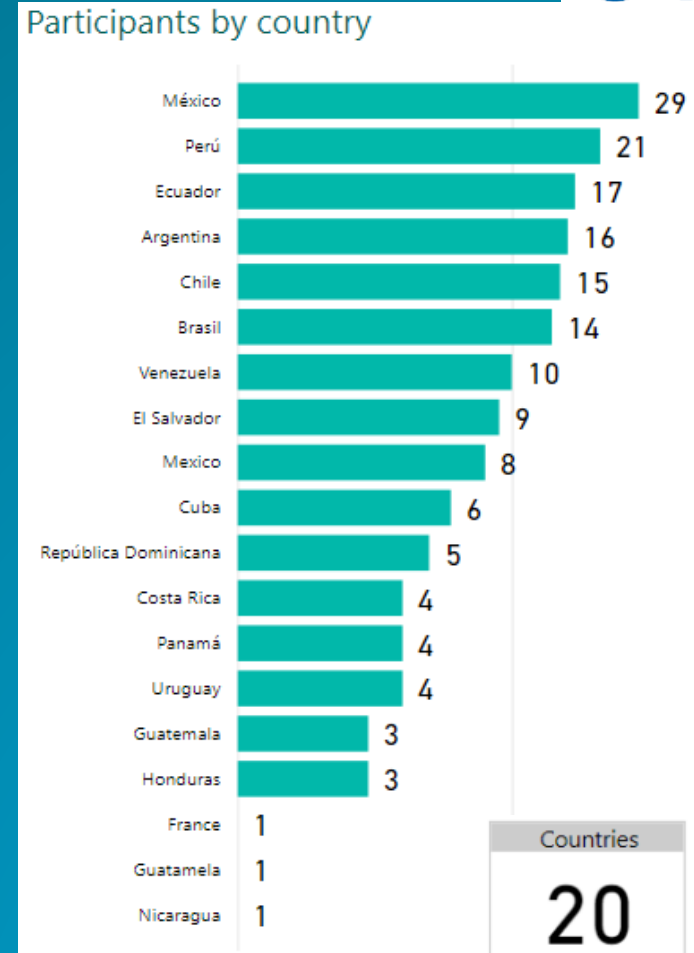
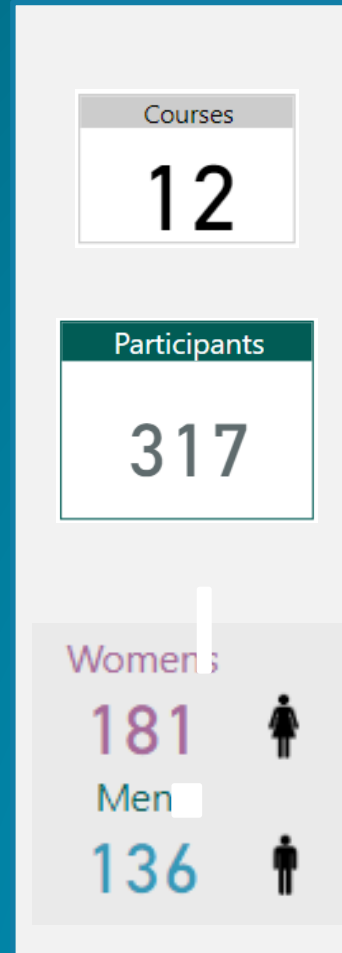
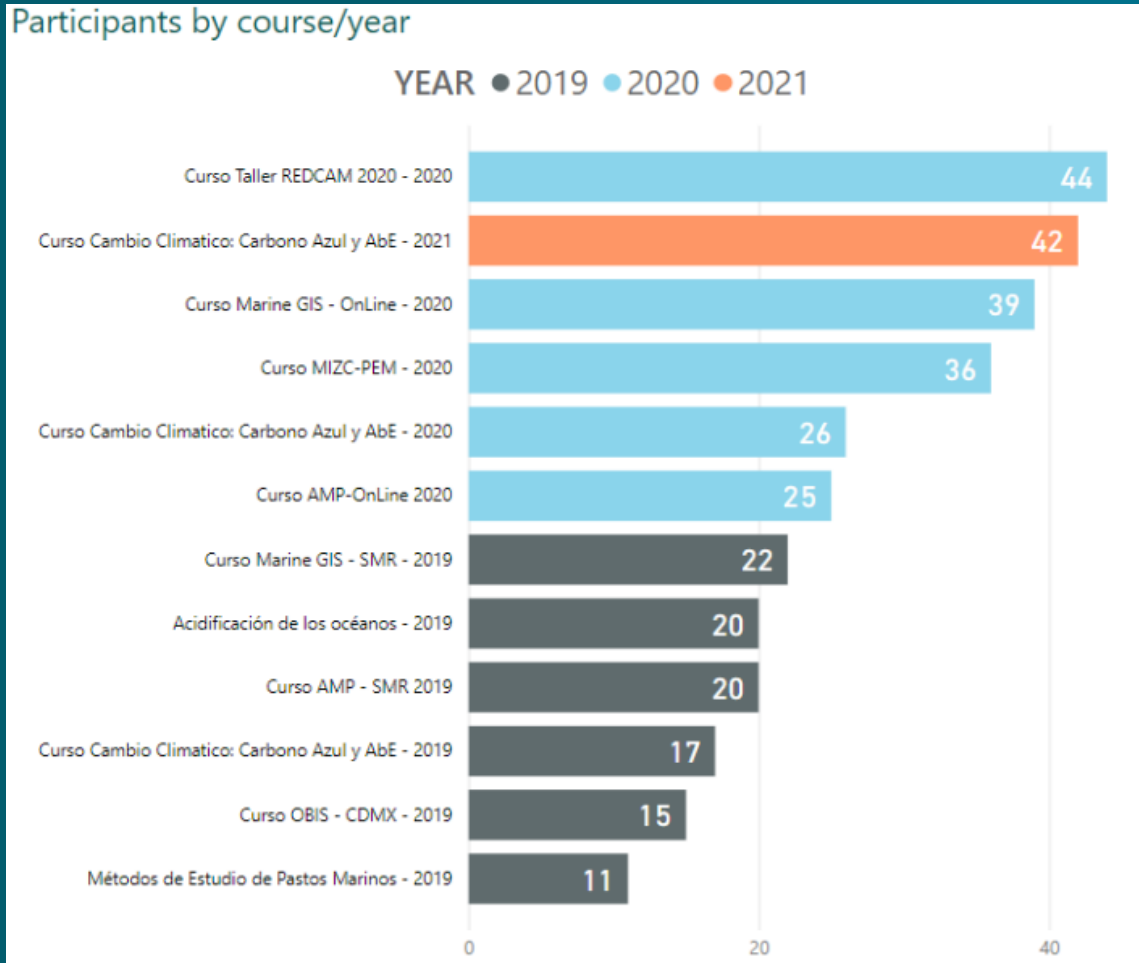
Intergovernmental
Oceanographic
Commission



@IOCARIBEOCEAN

iocaribe.ioc-unesco.org

RTC for LAC Region (2019-2021) at INVEMAR (Colombia)



2019 – 5 Courses (face-to-face)
2020 – 6 Courses (virtual)
2021 – 9 Courses planned (virtual)

Escuela de Ciencias del Mar, Argentina; University of Uruguay (UdelaR)/ University of Santa Catarina (UFSC), Uruguay/ Brazil; Escuela Superior Politécnica del Litoral (ESPOL), Ecuador



The CLME+ Training and Capacity Development (TCD) Portal



•The CLME+ Training and Capacity Development (TCD) Portal launched 15th December 2020 to bridge the information gap between "those (marine practitioners) in search of training opportunities" and "those providing training and capacity building initiatives." (clmeplus.mainetraining.org)



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



@IOCARIBEOCEAN

iocaribe.ioc-unesco.org



Ocean InfoHub Project LAC region

Data types

- People (researchers, youth, local communities)
- Organizations (Governmental & Private Sector)
- Documents
- Spatial data / maps
- Training opportunities
- Vessels (research opportunities)
- Projects

LAC partners involved (information systems)



Sargassum Project



Among Others



- OIH LAC is working to increase partnership (co-design) through testable operation
- Include pull and push resources to other nodes under automatically recognized usage conditions/ licences
- Technical team will participate in co-develop the ODIS – Arch
- Will develop interoperability prototype using ODIS - Arch



United Nations Educational, Scientific and Cultural Organization



Intergovernmental Oceanographic Commission





 **RELACIONES EXTERIORES**
SECRETARÍA DE RELACIONES EXTERIORES



UN
environment
United Nations
Environment Programme



UN DECADE OF OCEAN SCIENCE FOR SUSTAINABLE DEVELOPMENT 2021-2030 WESTERN TROPICAL ATLANTIC REGIONAL (WTA) WORKSHOP 27-28 April 2020.

Regional Consultation to facilitate the dialogue and the discussion for experts and stakeholders to define the Western Tropical Atlantic Region (WAT) Scientific Priorities and how they will be reflected in the Global Process of the UN Decade.

IOCARIBE- Structural Mechanism to manage the complexity in the region; overall responsibility for planning and coordination of the UN Decade of Ocean Science for Sustainable Development (2021-2030) and to catalyse actions, projects and programmes in the Western Tropical Atlantic region.



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



@IOCARIBEOCEAN

iocaribe.ioc-unesco.org



- Establishment of a **Regional Planning Group** and **Working Groups** by **Societal Outcomes and Capacity Development July 2020** to advance and coordinate strategic partnerships and actions, and to co-design and co-deliver regional programmes and projects for the WTA Region.

- **The WTA Working Groups Webinars will take place July – October 2021:**

A Thematic Webinar Series to expedite the co-design and co-implementation process and to promote multi-disciplinary and inclusive co-design and implementation partnerships to achieve each societal outcome and Capacity Development, and collaborate in addressing the Western Tropical Atlantic Decade Grand Challenges and Actions to achieve the Sustainable Development Goals (SDGs)

Virtual UN Decade Co-design Webinar Series

- Co-designing the Ocean Science we need for the Western Tropical Atlantic Webinar 4 November 2020
- Co-designing the Ocean Science we need for the Eastern Tropical Pacific Webinar 28 January 2021

- **The Decade WTA Regional Kickoff Conference** is planned to be held online in **October 2021**.



Special Thanks to:

Colombia for hosting the Secretariat since its initial establishment in 1986, and for seconding two professionals who are working at the Secretariat.

Barbados, the Government of Flanders (Kingdom of Belgium), **Mexico, Norway, Panama, Republic of Korea, Sweden, the EU, and USA.**

To all our UN, International, Regional and National and Partners.

NEW IOCARIBE BOARD OF OFFICERS 2021-2023



Arnulfo Sanchez
Panama
Chairman



Leo Brewster
Barbados
Vice-Chairperson



Claudia Alves De
Magalhaes. Brazil
Vice-Chairperson



John Cortina
USA
Vice-Chairperson

