

# 3.3.2. IOC OF UNESCO SUB-COMMISSION FOR THE CARIBBEAN AND ADJACENT REGIONS:

# **15TH SESSION OF IOCARIBE, ORANJESTAD, ARUBA, 6–10 MAY 2019**

Mr. ARNULFO SANCHEZ IOCARIBE CHAIRMAN

#### **30TH SESSION OF THE IOC ASSEMBLY**





Toxic algae bloom creeping up the west coast of Florida is killing wildlife and keeping residents and tourists away from the acclaimed beaches along the Gulf of Mexico. abcn.ws/2Mkv9OW

Traducir Tweet



6:24 - 13 ago. 2018







Implementation of the IOC Ciguatera Strategy.
Foster regional collaboration.
Action Plan 2019-2021.



HARMFUL ALGAL BLOOMS IOCARIBE HACA

IOCARIBE is working with UN, National Institutions, NGOs, and other Partners to enhance ocean acidification integrated ocean observations, science, mitigation, and adaptation for the region.



http://www.ciep.cl



Collaborate and develop strategies for building resilience to ocean acidification with Latin American Ocean Acidification Network (LAOCA)

Capacity development workshops to bring together scientists, policy-makers, and industry professionals from around the region

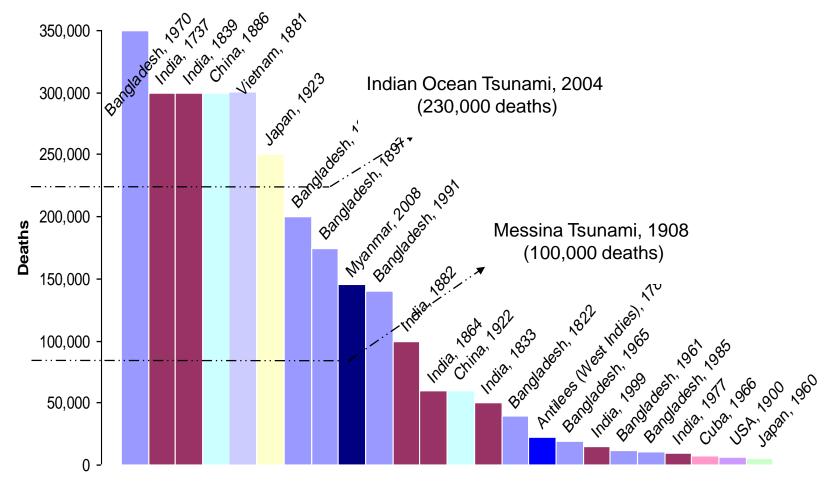




# **OCEAN ACIDIFICATION**

## JCOMM - THE COASTAL INUNDATION FORECASTING DEMONSTRATION PROJECT (CIFDP-C)

Coastal Inundation is a major threath to economies of countries



Deaths in tropical cyclones in each year, for highest ranks in the history. Most of fatalities in tropical storms are due to storm surge<u>s</u>.

IOCARIBE to implement CIFDP-C in several countries next biennia

#### (Dube, 2007)



**IOCARIBE GOOS - CIFDP-C** 

### PILOT PROJECT ON IMPROVEMENT OF HURRICANE OBSERVING FORECASTING CAPACITY

# Hurricane MARIA

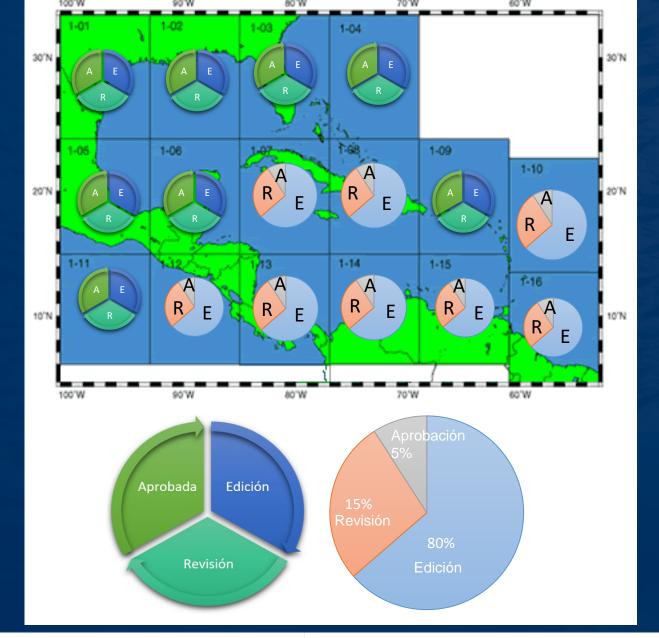
Graphics Archive Initial Wind Field and Watch/Warning Graphic Establishment of a **pilot project** on improvement of Hurricane Observing Forecasting Capacity jointly with many government agencies, academic and research institutions, and private industry, enhancing observations with advanced technologies.

Strengthening IOCARIBE-GOOS Alliances in the Region and establishing new partnership with Atlant S

United Nations



**IOCARIBE GOOS** 



50% of the Bathymetric Chart is completed. The second 50% is in the editorial and revisión stage to be completed by early 2020.

IBCCA second phase was approvedto produce a higher resolution Chart as a contribution to GEBCO-SEABED 2030, and aligned with Meso American Caribbean Sea Hydrographic Commission (MACHC) programmes.



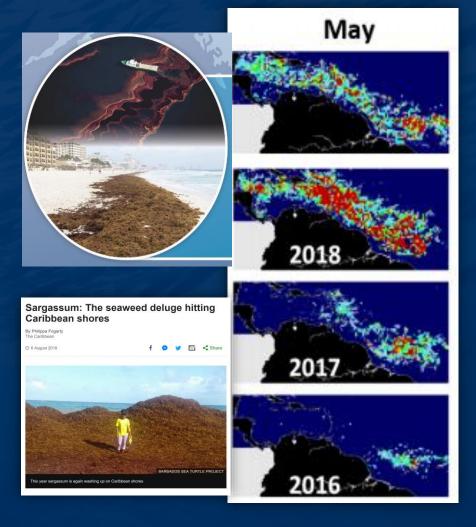
IBCCA - INTERNATIONAL BATHYMETRIC CHART OF THE CARIBBEAN SEA AND THE GULF OF MEXICO In recent years, the Caribbean region has faced challenges from oil spills and an influx of floating Sargassum seaweed.

Large-scale oil spill incidents and Illegal dumping of oilcontaminated waste by ships operating in the region are common occurrence.

Only for 2018 tourist season in the Riviera Maya (Mexico) the sargassum beaching economic impact was estimated to 275 USD millions.

IOCARIBE GOOS, GEO Blue Planet and other partners to continue efforts to:

- i) develop an operational region-wide information and forecasting system for sargassum and oil spills and
- ii) develop of a guide on best management practices for sargassum events in the coastal environment





SARGASSUM AND OIL SPILLS INFORMATION AND FORECASTING SYSTEM FOR THE WIDER CARIBBEAN

# **Main products**





**169** Maps

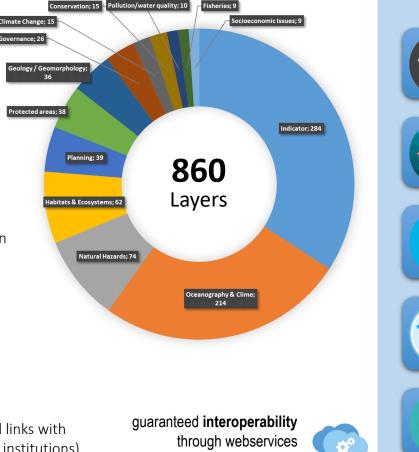
Maps (spatial viewer for consult /creation /downloading maps and layer / Layers (shapefile, raster, WMS) / free access to data and information



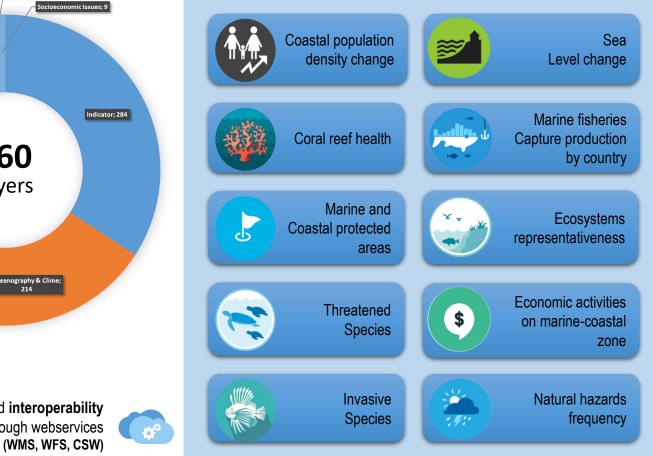
**156** Catalogue 63 Documents

#### 93 Information sources

Documentation related to spatial information and links with external information sources (projects, countries, institutions)



# **10** Indicators

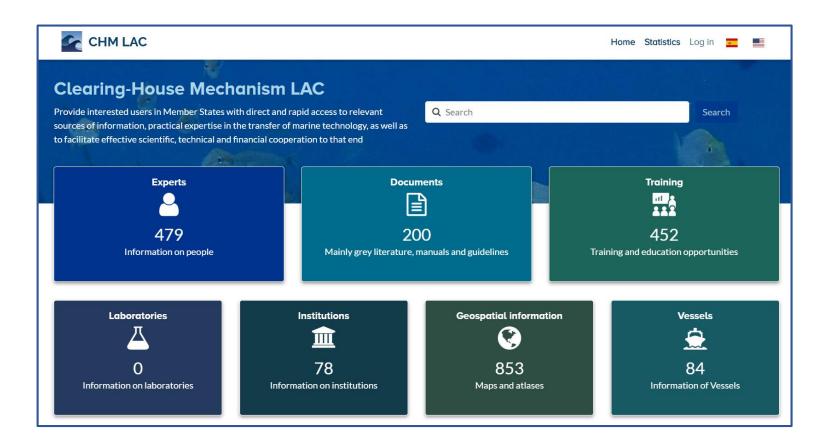


**Caribbean Marine Atlas** 

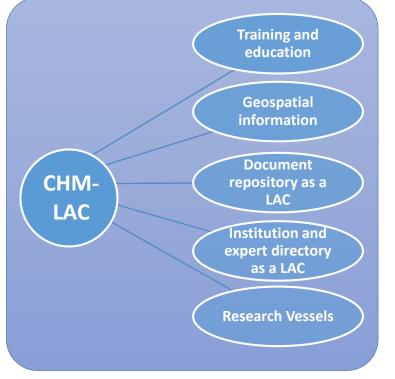
Permanent and detailed reviewing allowed a collection to date of maps, layers or documents. Each one include a metadata minimum based on ISO 19115 standard. Available on URL http://atlas.caribbeanmarineatlas.net/



# CHM/TMT Prototype for LAC



## http://portete.invemar.org.co/chm



# **Next Steps:**

Flanders State of the Art

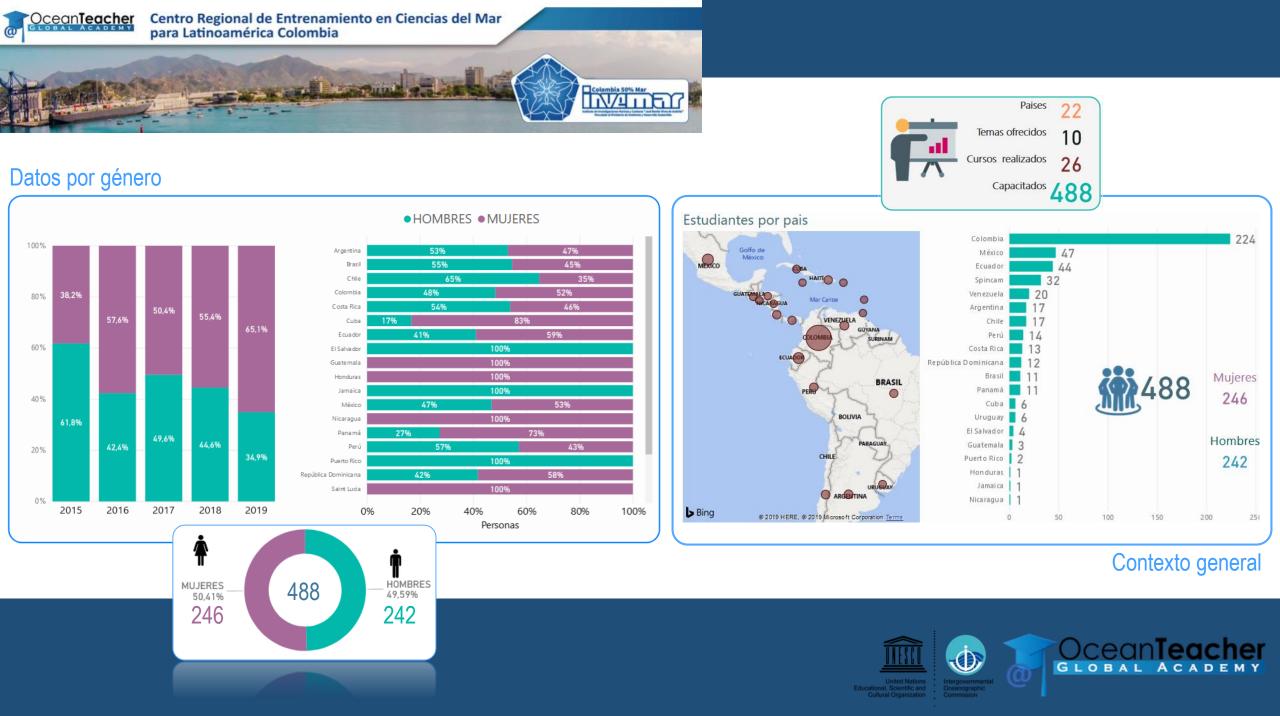
- Global Node

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- More Regional nodes

(D)

IODE IOCARIBE





# CLME+ is a project born 25 years ago as an IOCARIBE MS initiative with more than 20 mill GEF support, and over 100 mill co-financing.

- CLME+: Supports implementation of the politically endorsed 10-year CLME+ Strategic Action Programme (SAP)
- Facilitates implementation of ecosystem-based management
- Supports the region strengthen the Regional Governance Framework
  - SAP Interim Coordination Mechanism established in 2017 and consist of 8 IGOs
  - CLME+ Region considering requirements to establish a permanent Coordination Mechanism, inclusive of a Sustainable Financing Plan, for enhanced ocean governance





# CARIBBEAN AND NORTH BRAZIL SHELF LARGE MARINE ECOSYSTEMS

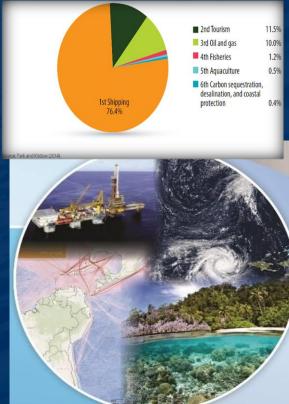
**OCEAN** is a major resource for IOCARIBE countries economies. Particulary for SIDS. It represents a defining cultural, historical and socio-economic component for people in the Region.

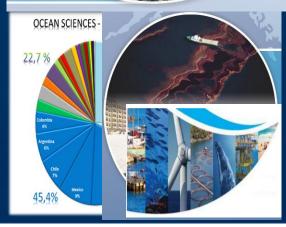
- Launch the Decade based on IOCARIBE experience, capabilities and needs
- Prioritize themes/activities where we can achieve more together than alone
- Mobilize existing and new partnerships that support a smart sustainable economy, resilient communities and ecosystem health and services
- Advance capacity development and broaden access to data and tools to apply knowledge for sustainable development, including Marine Spatial Planning and Ocean Literacy
- Foster inclusive engagement of diverse sectors, disciplines, cities/ indigenous communities, women and youth

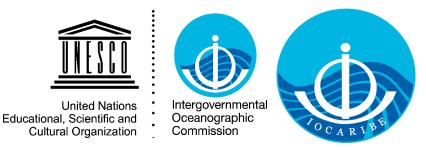




UN DECADE OF OCEAN SCIENCE FOR SUSTAINABLE DEVELOPMENT







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## **IOCARIBE specially thanks:**

The Government of **Colombia** for their continuos financial and human resources support to the IOCARIBE Secretariat

The Government of **Flanders (Kingdom of Belgium)** for their financial support to IOCARIBE Programmes and initiatives,

The Government of Aruba (The Kingdom of The Netherlands) for hosting IOCARIBE XV, and

The Goverment of **Barbados** 

The Goverment of Brazil

The Government of Mexico

The Government of Panama

The Government of the Republic of Korea

For their in-kind and financial support to IOCARIBE Programmes



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