

17th SESSION IOCARIBE



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Intergovernmental
Oceanographic
Commission

Sub-Commission for the Caribbean
and Adjacent Regions

Subcomisión para el Caribe y
Regiones Adyacentes

Bogotá, Colombia
May 08 - 11, 2023



GOBIERNO DE COLOMBIA



COMISIÓN
COLOMBIANA
DEL OCEANO

OCEAN DECADE SAFE TROPICAL AMERICAS AND CARIBBEAN OCEAN ICHEWS PROJECT

CHRISTA VON HILLEBRANDT-ANDRADE

LEAD SAFE OCEAN WORKING GROUP OF THE IOCARIBE DECADE
PLANNING GROUP

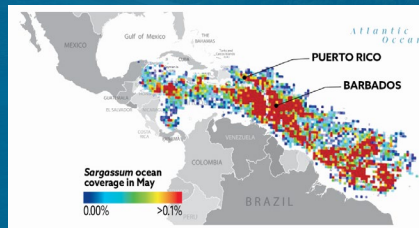
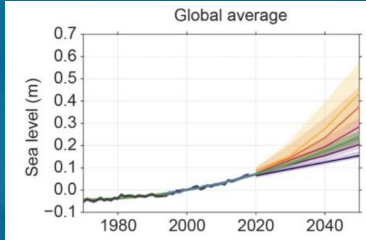
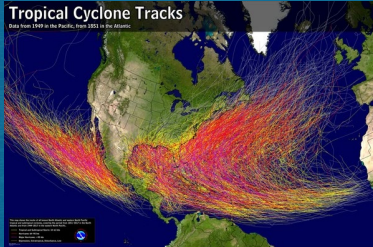
INTERNATIONAL TSUNAMI INFORMATION CENTER – CARIBBEAN OFFICE

IOCARIBE XVII SESSION

MAY 9, 2023



COASTAL THREATS ARE REAL AND GETTING WORSE



CHALLENGE: BREAKING DOWN SILOS



“The Ocean is Crying
and our People are
Dying”

Hon. Sharlene Dabreo, BVI, Permanent Secretary

Silo Art Trail in Sea Lake of the Wimmera-Mallee,
Australia (painted by Joel Fergie & Travis Vinson) as
photographed by Julie Powell
(<https://juliepowell2014.wordpress.com/2019/11/20/wim-mera-mallee-silo-art-sea-lake/>)



2021 United Nations Decade of Ocean Science for Sustainable Development 2030



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One Planet, One Ocean

Un Planeta, Un Océano

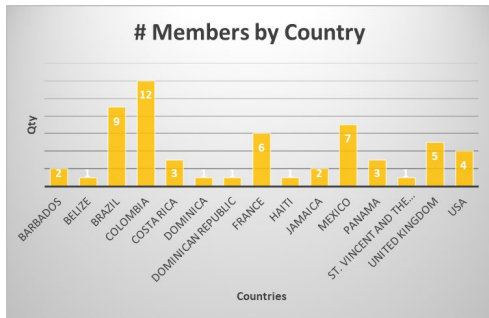
Une planète, un océan



@IOCARIBEOCEAN

SAFE OCEAN WORKING GROUP

73 MEMBERS



CASE REPORT

<https://doi.org/10.1590/2675-2824069.21-027cvha>
ISSN 2675-2824

Co-Designing a safe ocean in the Western Tropical Atlantic within the framework of the UN Decade of Ocean Science for Sustainable Development

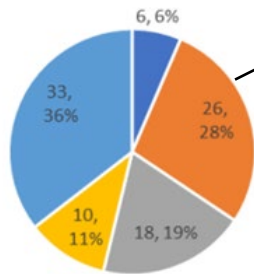
Christa von Hillebrandt-Andrade¹, Azra Blythe-Mallett², Elva Escobar-Briones³

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² Ministry of Agriculture & Fisheries (Kingston, Jamaica)

³ Universidad Nacional Autónoma de México, Instituto de Ciencias del Mar y Limnología (Ciudad Universitaria 04510, Mexico City, Mexico)

Feedback from Safe Ocean survey conducted in April 2020 at the IOCARIBE Ocean Decade Planning Meeting



Physical
Spatial
Biological
Chemical
Social
Economic
...

- a. Scientific understanding of the threat
- b. Observation/Data/Alerts
- c. Partnerships and financing
- d. Capacity development
- e. Education, Outreach and Communication

INTEGRATED COASTAL HAZARDS EARLY WARNING SYSTEM AND SERVICES (iCHEWS-TAC) - OBJECTIVES

- Evidence- and impact-based integrated Coastal Hazards Early Warning System and Services (iCHEWS-TAC) addressing four key elements: Monitoring and Warning, Risk Knowledge and Understanding, Warning Dissemination and Communication (through regional, national and local levels), and Response Capabilities
- Enhanced resilience to Coastal Hazards, considering lessons from COVID 19.
- Address threats, their direct and cascading impacts, cultural, political, economic and social diversity, social capital, capacity development, human and environmental sustainability requirements, and engagement and inclusion of the most vulnerable.
- Enhanced Capacity Development and Governance Structure

PARTNERS 1

Regional Office for the Americas and the Caribbean, UN Office of Disaster and Risk Reduction (UNDRR)

Caribbean Disaster and Emergency Management Agency (CDEMA) – Early Warning Consortium

Coordination Centre for the Prevention of Natural Disasters in Central America (CEPREDENAC)

Etat-Major Interministériel de la Zone de Défense et de Sécurité Antilles (EMIZA)

Intergovernmental Coordination Group for Tsunami and Other Coastal Hazards Early Warning System for the Caribbean and Adjacent Regions (UNESCO/IOC ICG CARIBE-EWS)

Caribbean Tsunami Information Center (UNESCO/IOC)

WMO Regional Association III (South America)

WMO Regional Association IV (North America, Central America and the Caribbean)

Global Ocean Observing System (IOC-WMO-UNEP-ICSU)

Sargassum Information Hub (GEO Blue Planet, IOCARIBE, AtlantOS, and the AIR Center)

Pan American Health Organization

Regional Early Warning Systems Consortium

CREWS (Climate Risk Early Warning System)

Caribbean Institute for Meteorology and Hydrology

Caribbean Meteorological Organization

PARTNERS 2

Meso America and Caribbean Hydrographic Commission

Red Cross, and International Federation of Red Cross

Central America Tsunami Advisory Center (CATAC at INETER, Nicaragua)

US NOAA National Hurricane Center

CCCCC (Caribbean Community Center for Climate Change)

National HYDROMET Services (NHMS)

National Disaster Management Organizations

National Tsunami Warning Centers

Local Emergency Management Organizations

University of the West Indies (Seismic Research Center, Trinidad and Tobago; Jamaica)

University of Puerto Rico (Mayaguez, School of Medicine, Public Health, Rio Piedras)

National University Costa Rica (SINAMOT-UNA)

French West Indies University (Guadeloupe)

National University of Mexico (Sea Level and Seismic Centers)

ENDORSEMENT AS AN OD PROJECT OF COAST PREDICT

REDIFINING THE COASTAL OCEAN

Main Objectives:

- Integrate observations global through local observations and numerical models to produce predictions with uncertainties from extreme events to climate, for the coastal marine ecosystems (their services), biodiversity,
- Co-design transformative response to science and societal needs.
- Focus on the many common worldwide features, to produce observations and predictions of natural variability and human-induced changes in the coastal areas
- Upgrade the infrastructure for data exchange in line with recognised standards.



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2021 United Nations Decade
2030 of Ocean Science
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RÉGION DE L'AMÉRIQUE TROPICALE ET DES CARAÏBES

Establish Governance and
Management framework

Role of TAC Safe Ocean WG?
IOCARIBE? Member States?

Identification of other relevant
Decade and National, Regional
and Global Actions

Eg. Sendai, EW4ALL, CARIBE EWS

Member State Needs and
Resource Assessment

In consultation with UNDRR,
IOCARIBE-GOOS

Define an Initial Activity

eg. Blue Line - What and Who are
at Risk from Coastal Inundation

Next Steps

One Planet, One Ocean / Un Planeta, Un Océano / Une planète, un océan

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RÉGION DE L'AMÉRIQUE TROPICALE ET DES CARAÏBES



The clock is
ticking...and
we are
overloaded.

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OBRIGADO

THANK YOU 

MUCHAS GRACIAS 

MERCI BEAUCOUP 

BEDANKT

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