



# 2024 OCEAN DECADE CONFERENCE

OCEAN DECADE IN THE TROPICAL  
AMERICAS AND CARIBBEAN REGION:

JOINT ACTION TO ACHIEVE A SUSTAINABLE  
OCEAN FUTURE

As part of the Ocean Decade Week (8-12 April 2024)

 11 April  13:15 - 14:45 CET

 Barcelona, CCIB, Caribbean Sea  
Room, (124+125)



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

## OCEAN DECADE IN THE TROPICAL AMERICAS AND CARIBBEAN REGION : JOINT ACTION TO ACHIEVE A SUSTAINABLE OCEAN FUTURE

### SPEAKERS:



**HER WORSHIP THE MAYOR  
KERRY BREEDY PRINCE,**  
Portsmouth, Dominica



**PROF. YUTAKA MICHIDA**  
Chairperson  
IOC

### MODERATOR:



**LORNA INNESS**  
Head IOC-UNESCO Regional  
Secretariat for IOCARIBE



**LORETO DUFFY**  
Co-Chair TAC Task Force  
& Tourism Industry  
Representative



**JOHN V. CORTINAS**  
Vice-Chairperson  
IOCARIBE



**PATRICK DEBELS**  
Program Coordinator Procaribe +



**DAYNE BUDDO**  
Director Global Ocean Policy  
Georgia Aquarium



**SHEYLA RAVELO PEREZ**  
ECOP



**MAYA TROTZ**  
Ocean Science Professor



**BARBARA PINHEIRO**  
Universidade Federal de Alagoas



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# AGENDA

Time Slot	Agenda Item	Speaker
3 minutes	Introduction	Lorna Inniss (Moderator)
5 minutes	Welcome from IOC-UNESCO	Prof. Yukata Michida (IOC Chair)
10 minutes	Ocean Science in the IOCARIBE region	John Cortinas (IOCARIBE Vice Chair)
10 minutes	Ocean Governance in the IOCARIBE region	Patrick Debels (Program Coordinator Procaribe +)
10 minutes	Audience Interaction	Lorna Inniss (Moderator)
<b>Roundtable 1:</b>		
5 minutes	Ocean Science to Policy to Implementation	Her Worship the Mayor Kerry Prince, Portsmouth, Dominica
5 minutes	Critical Ecosystems and the Ocean	Maya Trotz (Ocean Science Professor)
5 minutes	The tourism sector and the Ocean	Loreto Duffy-Mayers (Expert - Tourism Sustainability)
10 minutes	Audience Interaction	Lorna Inniss (Moderator)
<b>Roundtable 2:</b>		
5 minutes	Intersectionality: Gender, Race and Ocean Decade Initiatives	Barbara Pinheiro (Universidade Federal de Alagoas)
5 minutes	Fisheries and the Ocean	Dayne Buddo (Director of Research, Georgia Aquarium)
5 minutes	Youth and the Ocean	Sheyla Ravelo (ECOP Coordinator)
10 minutes	Audience Interaction	Lorna Inniss (Moderator)
<b>Summary and Clostin: Recap and Closing Remarks</b>		

# INTRODUCTION

## OCEAN DECADE IN THE TROPICAL AMERICAS AND CARIBBEAN REGION:

### *JOINT ACTION TO ACHIEVE A SUSTAINABLE OCEAN FUTURE*



**LORNA INNISS**

Head IOC-UNESCO  
Regional Secretariat for IOCARIBE



# 10

## CHALLENGES ADDRESSED BY OCEAN DECADE



Understand and  
beat marine  
pollution

# 1



Protect and  
restore  
ecosystems and  
biodiversity

# 2



Sustainably  
feed the global  
population

# 3



Develop a  
sustainable and  
equitable ocean  
economy

# 4



Unlock  
ocean-based  
solutions to  
climate change

# 5

# 10

## CHALLENGES ADDRESSED BY OCEAN DECADE



Increase  
community  
resilience to  
ocean hazards

# 6



Expand the Global  
Ocean Observing  
System

# 7



Create a digital  
representation  
of the ocean

# 8



Deliver data,  
knowledge and  
technology to all

# 9



Change humanity's  
relationship with  
the ocean

# 10



# WELCOME FROM IOC-UNESCO

**PROF. YUTAKA MICHIDA**  
Chairperson IOC



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# OCEAN DECADE IN THE TROPICAL AMERICAS AND THE CARIBBEAN REGION:

Joint Action to Achieve a Sustainable Ocean Future

*Ocean Science in the IOCARIBE Region*

JOHN V CORTINAS  
VICE-CHAIRPERSON IOCARIBE

APRIL 11TH, 13:15-14:45  
CCIB Caribbean Sea Room (124+125)



# IOCARIBE Programs & Priorities

- 14 programs aimed to improve the state of oceanography within the region.
- Examples of issues being addressed include:

Ocean Literacy

Capacity Development

Development of Ocean  
Observational + Numerical  
Modeling Systems

Data Management & Co-  
Design

Sargassum

Multi-Hazard  
Early Warning  
Systems

HABs





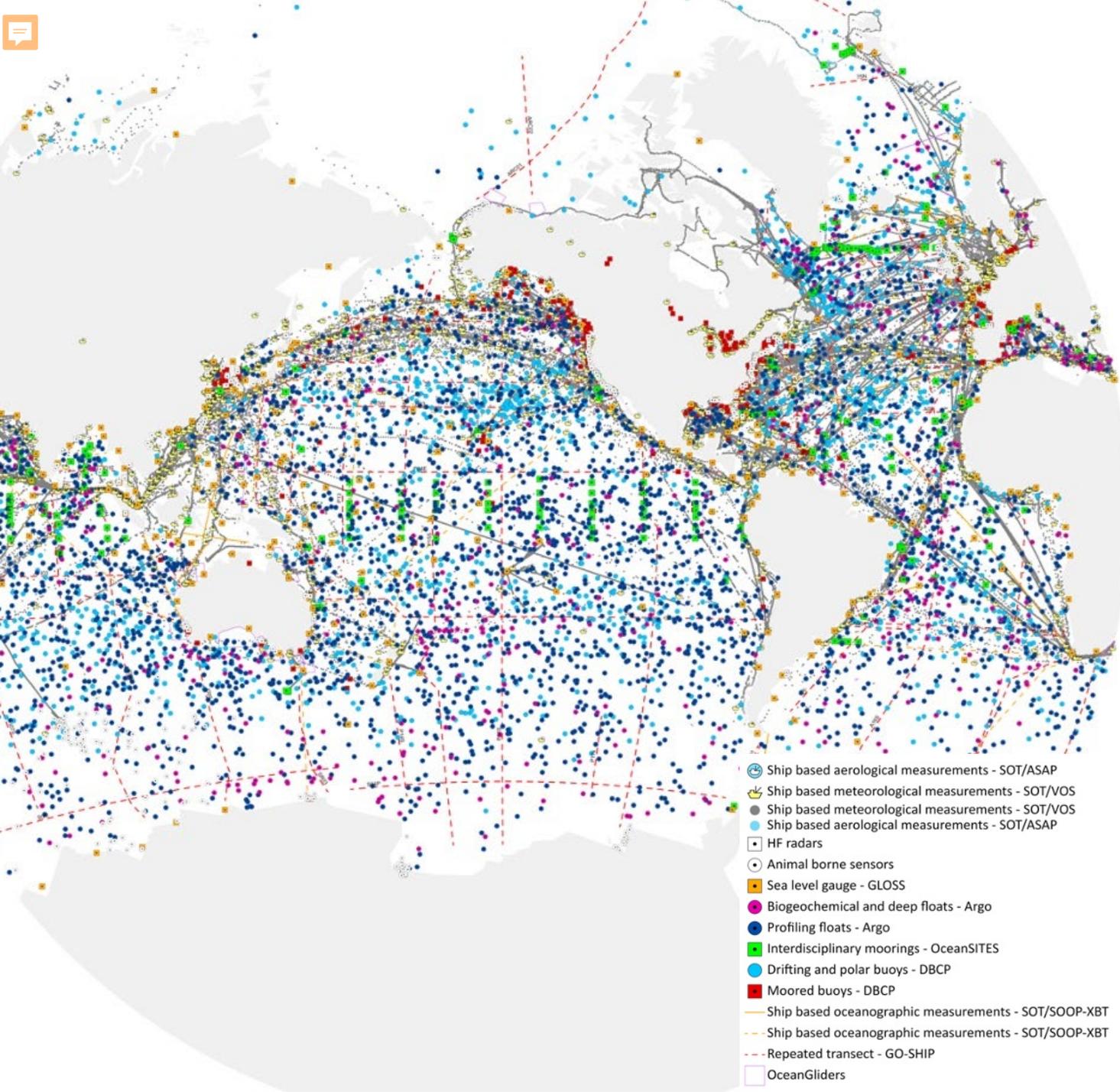
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# **8 IOCARIBE Decade Led Actions**

- Enhancing Capacity Development
- Integrating Coastal Hazard Warning Systems
- MACHC-IOCARIBE Seabed 2030 Project
- Gain Knowledge to Respond to Multiple Stressors
- Pollutants Observatory
- Ocean Observing and Forecasting System
- Ocean Literacy
- Ocean Best Practices

# International Marine Science Conference on IOCARIBE GOOS



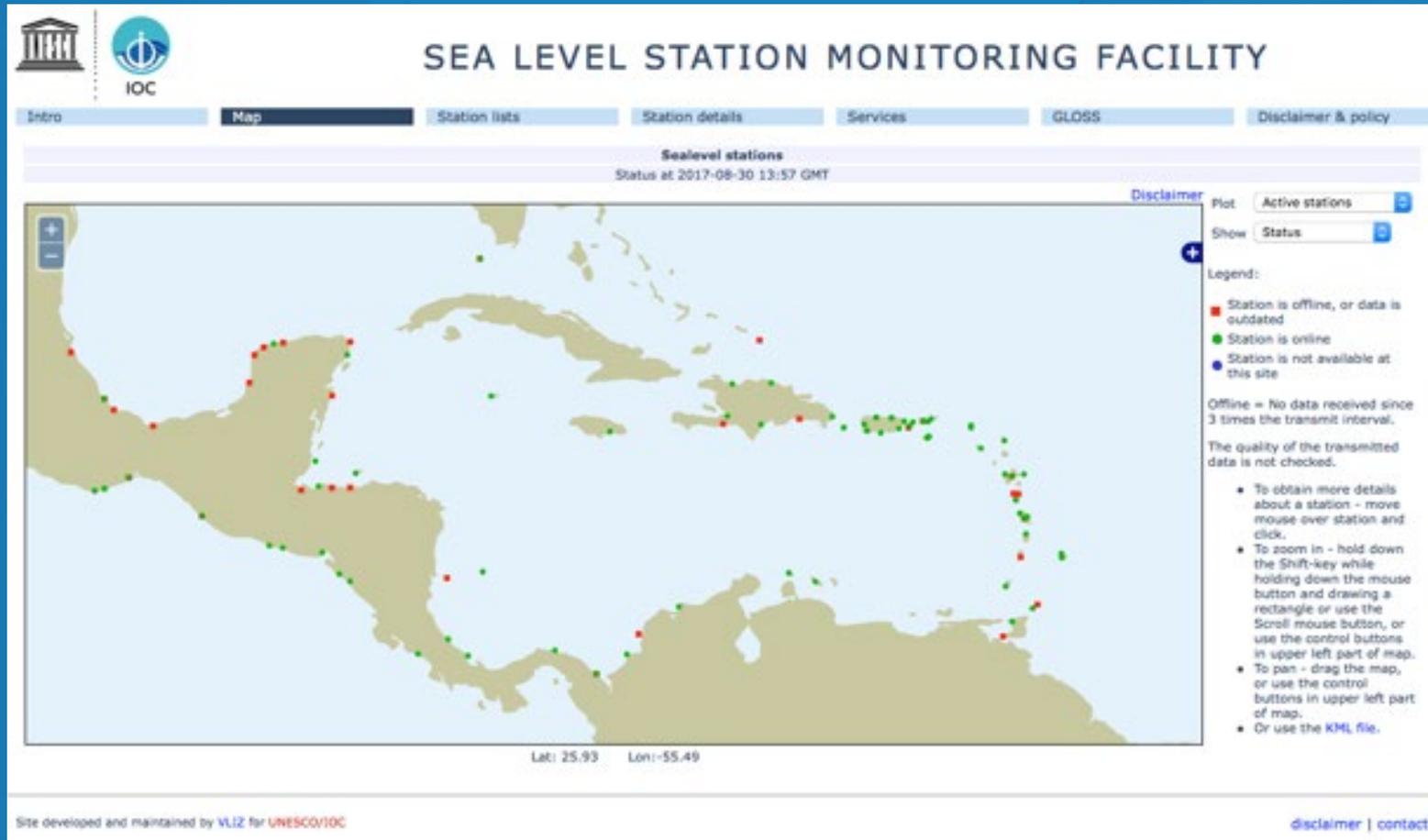


# GOOS Today

- 84 countries, 8,700+ observing platforms, 13 global networks
- More than 100,000 observations per day - delivering an accessible, safe and productive ocean
- Global observing networks, e.g. Argo, GO-SHIP, Drifting Buoys, plus emerging networks, e.g., OceanGliders, HF Radar.

*"The weather forecasting systems will run off the rails if they don't have the surface pressure information over the ocean to constrain them"* - Lars Peter Riishojgaard, Director of the Earth System Branch WMO

# IOCARIBE Sea Level Monitoring Network



- IOCARIBE-GOOS first implementation pilot project to support a working sea level network in the Caribbean in 2005
- Evolved into the IOCARIBE Early Warning Systems-Sea Level
- 80+ active real time Sea Level stations reporting



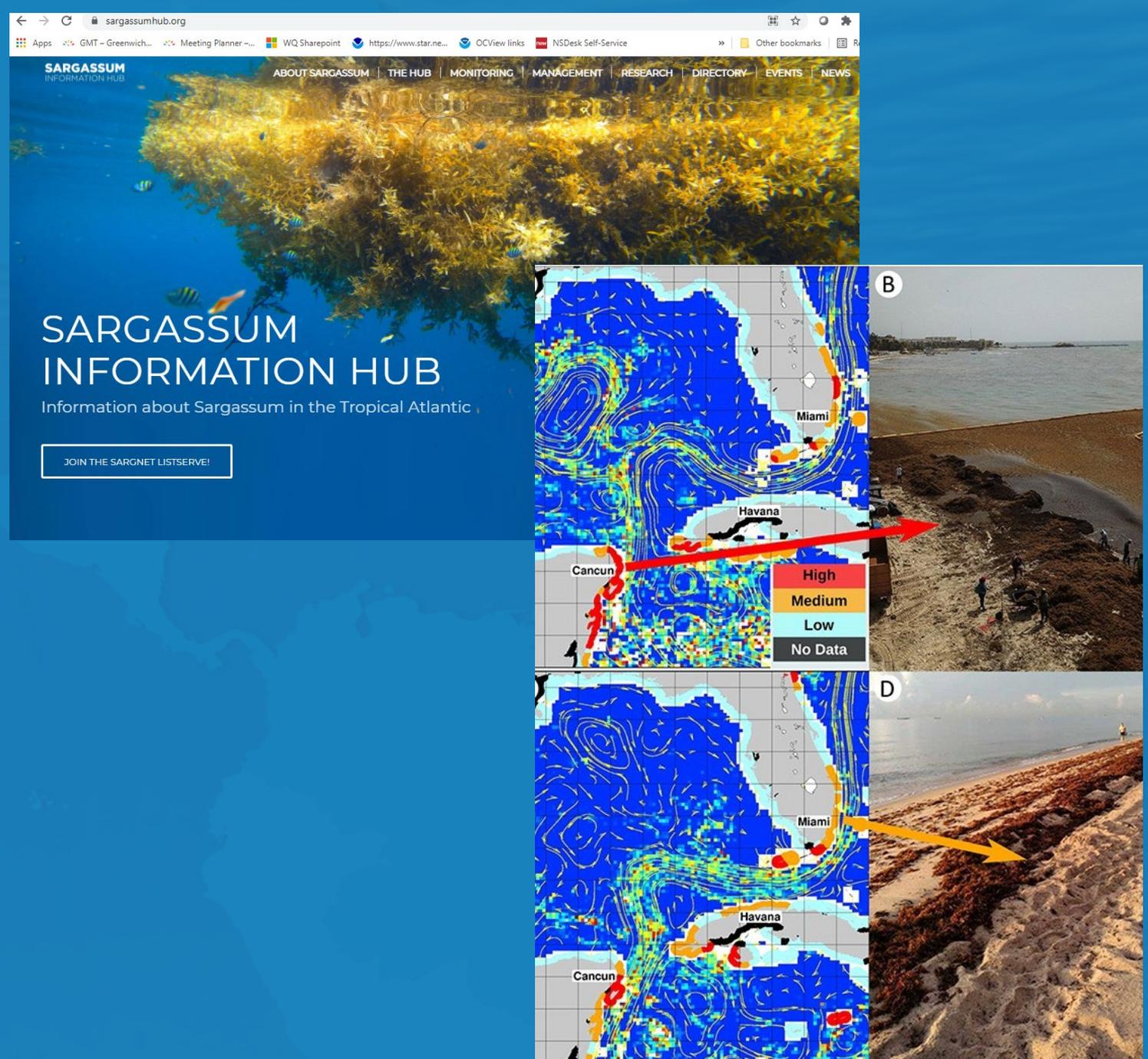
# Oil Spill Projects

- Oil Spill Information System Workshop with Partners
- Trainings: Satellite oil spill analysis training for Trinidad and Tobago's Institute of Marine Affairs and partners
- Next Steps: Develop/Determine Capacity for Routine Monitoring, develop a pilot project for the GIS-based oil spill information toolkit

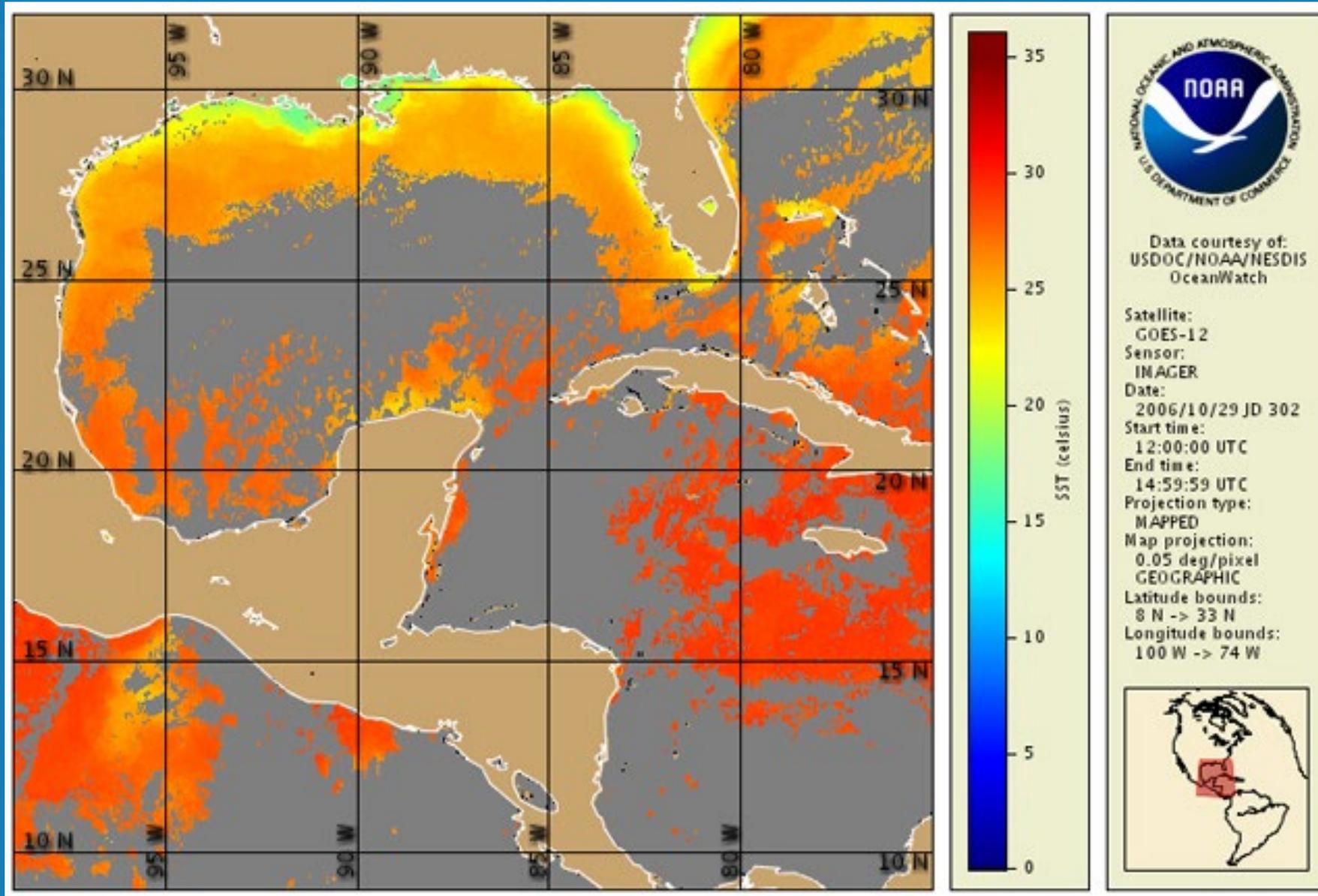


# Sargassum Projects

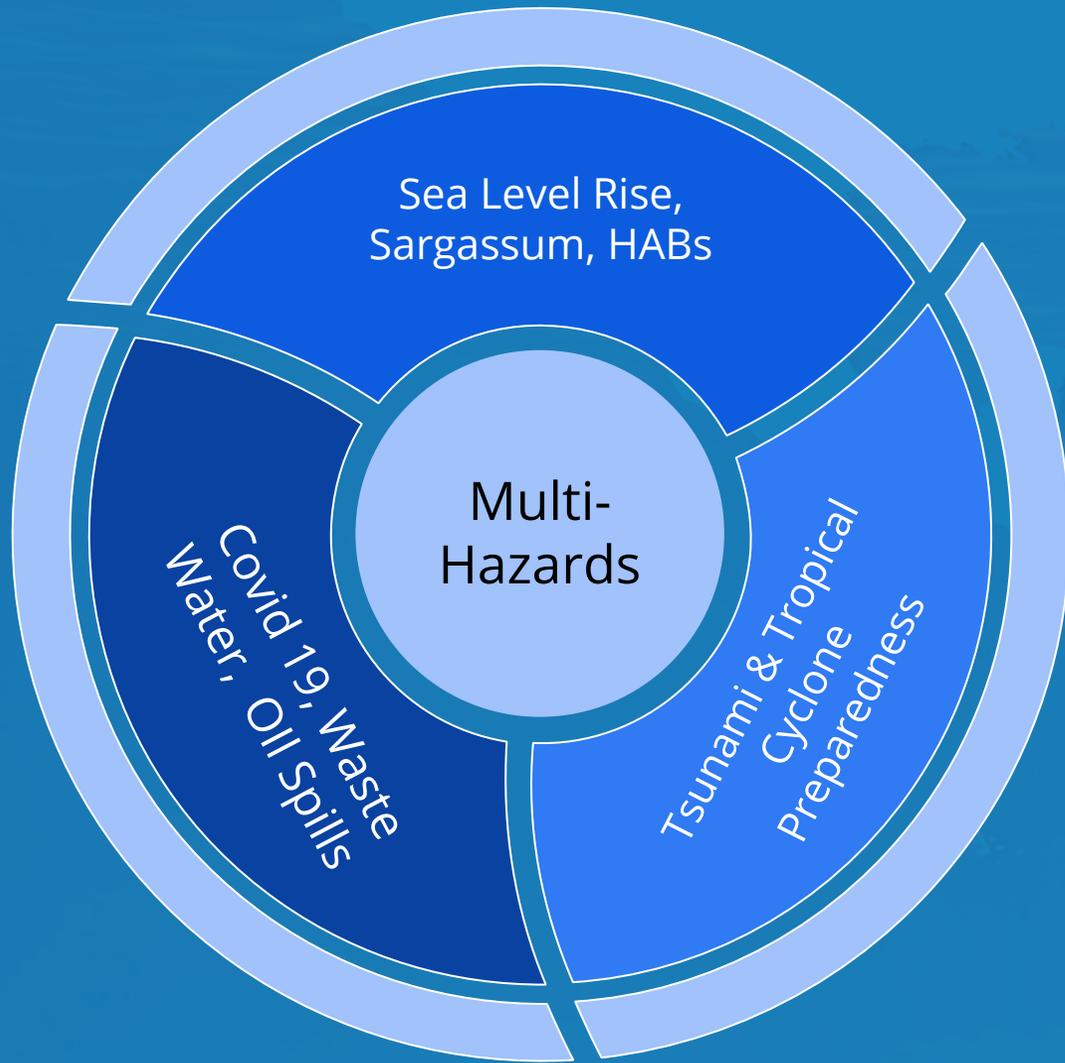
- Sargassum Information Hub
- Sargassum Webinar Series (2020)
- Management Best Practices
- Sargassum Data Sharing
- Maintaining Inundation Reports and Products



# Harmful Algal Blooms (HABs)



# Multi-hazard Information and Forecasting System for the Wider Caribbean Tropical Atlantic and Caribbean (TAC) - Ocean Observation Forecasting System



The objective of the information service will be to provide a **publicly available** monitoring platform, forecasting, and alerting system.

The project is firstly focused on **sargassum and oil spills** and is expanding to include additional hazards as identified by local stakeholders.





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MUCHAS GRACIAS  
THANK YOU  
MERCI BEAUCOUP



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# GOVERNANCE OF THE OCEAN (IN THE WIDER CARIBBEAN)

PATRICK DEBELS

REGIONAL COORDINATOR, UNDP/GEF PROCARIBE+  
SECRETARIAT OF THE CLME+ INTERIM COORDINATION MECHANISM  
PATRICKD@UNOPS.ORG



UNOPS PROCARIBE+ Project



**CLME+**  
Interim Coordination Mechanism  
Caribbean & North Brazil Shelf Large Marine Ecosystems  
OUR SEA - OUR SOURCE - OUR FUTURE  
www.clmplus.org

# ***OCEAN GOVERNANCE***

*is a broad-stroke term that combines governing **structures, processes, rules, and norms** that **shape** how relevant actors make **decisions**, share power, **assign responsibility**, and **pursue accountability** in the use and management of the marine environment*

*(Blythe et al., 2021)*

# ***INTERNATIONAL OCEAN GOVERNANCE***

***is about managing and using the world's oceans and their resources in ways that keep them healthy, productive, safe, secure and resilient.***

***(European Environment Agency)***

## *Interactive Governance:*

*The whole of interactions  
among state actors, civil society,  
private sector and Academia  
to solve societal problems  
and to create societal opportunities;*

*including the formulation and application of principles guiding those  
interactions and care for institutions that enable and control them*

*(adapted from Kooiman et al. 2005)*

*Patrick Debois*

*Interactive Governance projected on the  
Ocean:*

*The whole of interactions  
among governments, civil society,  
private sector and Academia  
for  
**THE OCEAN WE WANT***



***THE SCIENCE WE NEED***

# INTERGOVERNMENTAL ORGANIZATIONS (IGOs) with an OCEANS-RELEVANT MANDATE in the WIDER CARIBBEAN

26 States  
18 Overseas Territories  
16 SIDS

1 Regional Seas Programme (UNEP - Cartagena Convention)

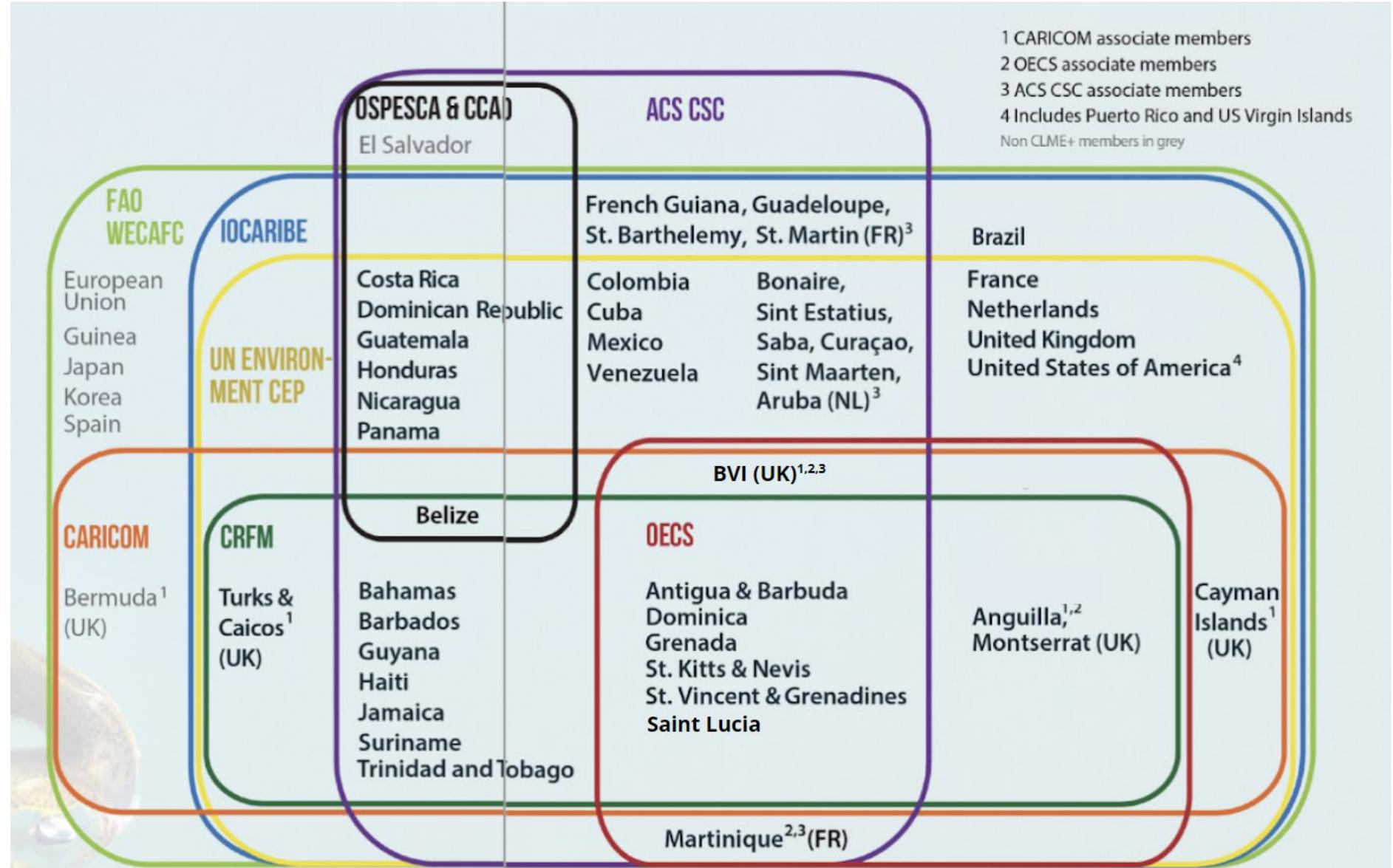
3 Regional Fisheries Bodies

1 Regional IOC SubCommission, IOCARIBE

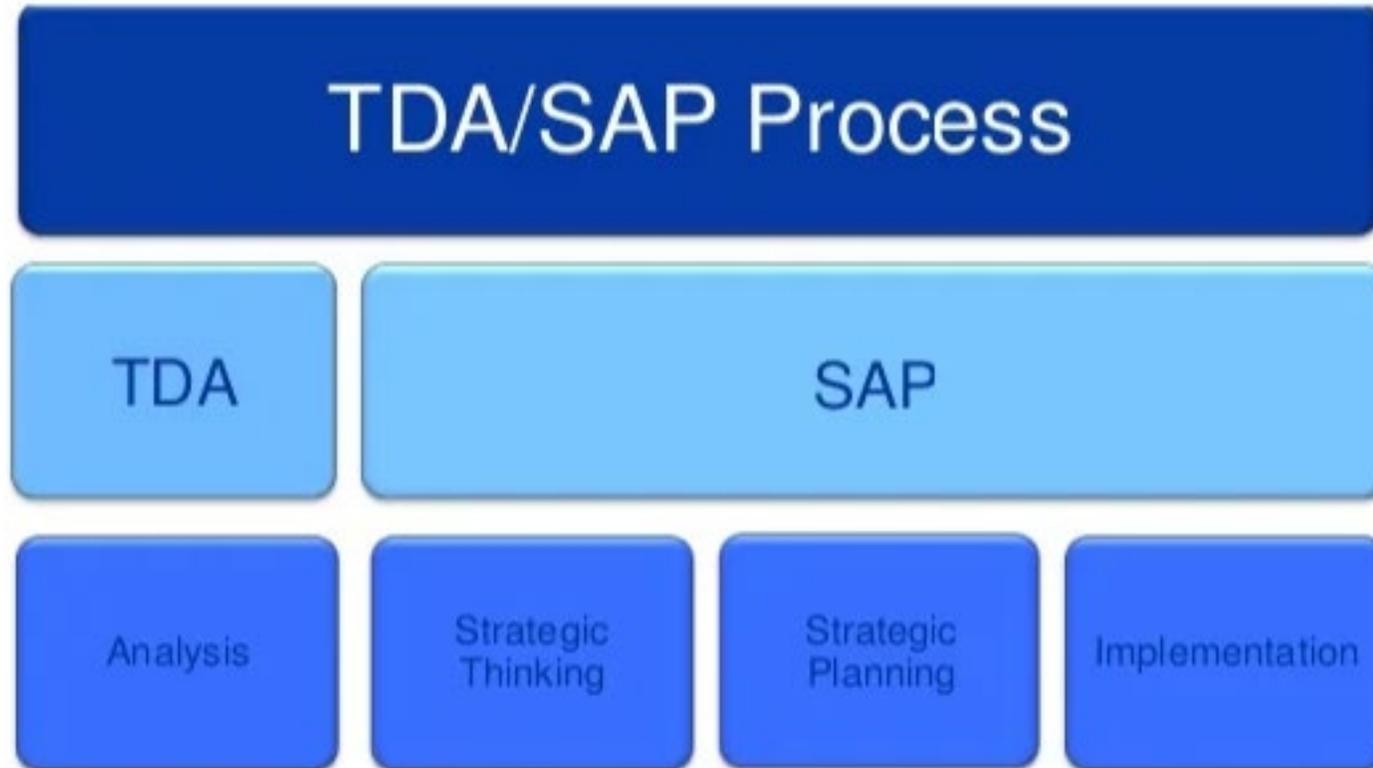
1 Economic Commission, ECLAC

several regional and sub-regional geopolitical integration mechanisms

2 Large Marine Ecosystems programmes



# GEF-supported approach for Large Marine Ecosystems



- ❑ **TDA** = Transboundary Diagnostic Analysis
  - **Scientific & technical fact-finding**
- ❑ **SAP** = Strategic Action Programme
  - Political priority-setting for joint action

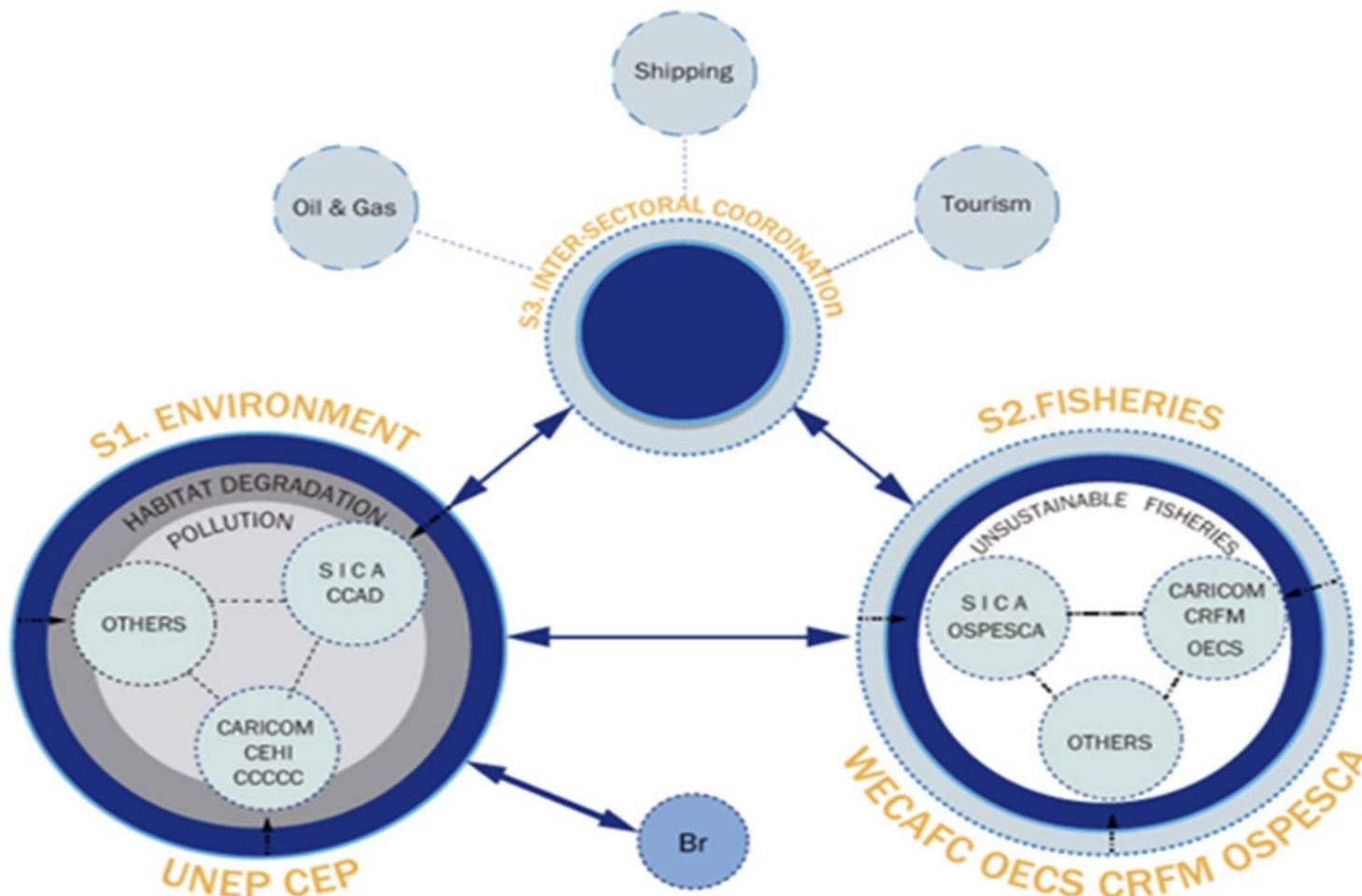
# CLME PROJECT (2009-2014): regional Strategic Action Programme

regional Transboundary Diagnostic Analyses → regional Strategic Action Programme

## 3 (+1) key transboundary problems:

- Habitat degradation
- Unsustainable fisheries
- Pollution

Cross-cutting: climate change





# Science and Research Serving Effective Ocean Governance in the Wider Caribbean Region

A.A. Acosta, R.A. Glazer, F.Z. Ali and R. Mahon  
Gulf and Caribbean Fisheries Institute, Technical Report No. 02



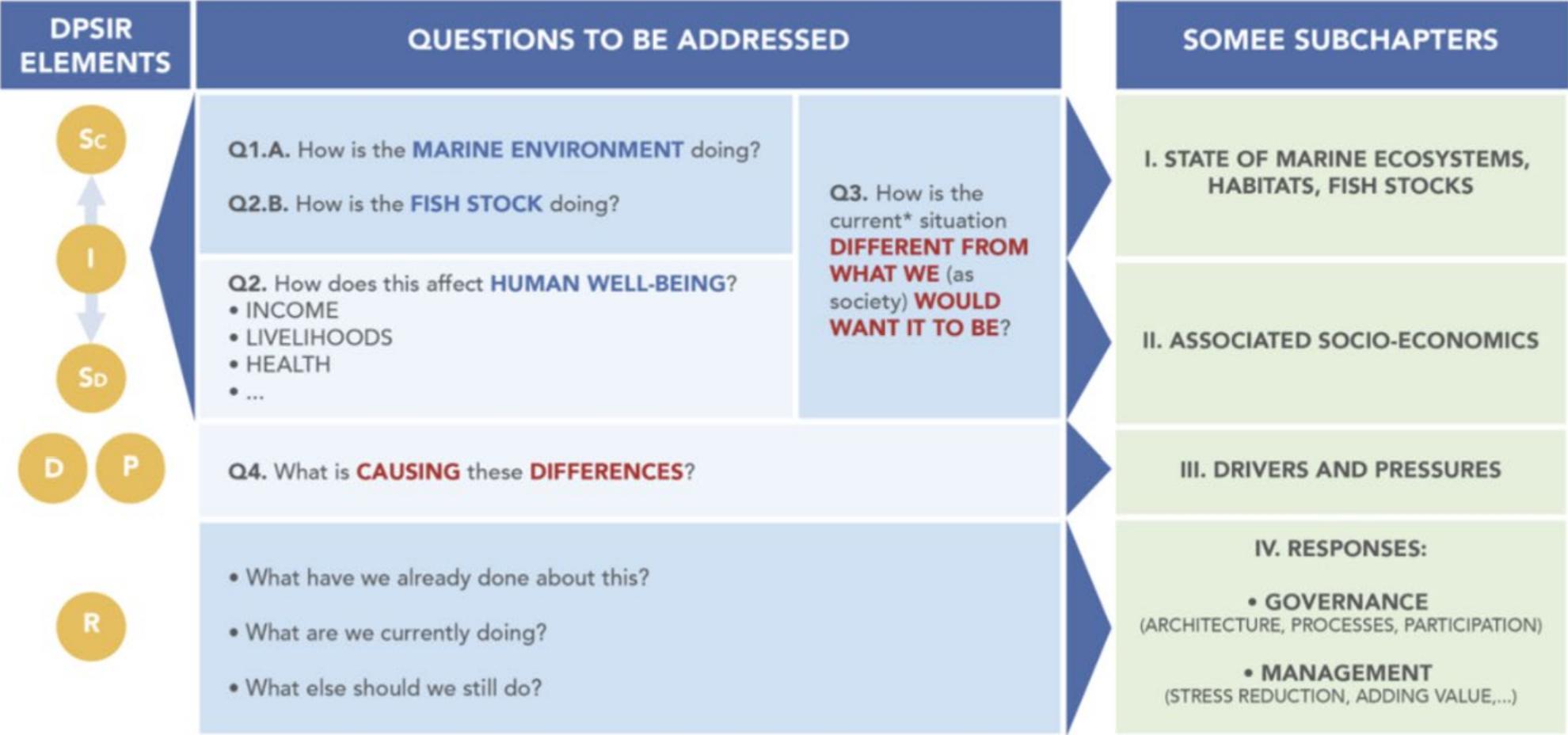


HIGH-LEVEL MINISTERIAL SESSION  
CARTAGENA CONVENTION

6 October 2023:  
opening for signature of the  
**Memorandum of Understanding (MoU)**  
**Enabling the Creation of a Coordination Mechanism**  
**to Support Integrated Ocean Governance**  
in the Caribbean and North Brazil Shelf Large Marine Ecosystems

# THE SOMEE “STORY”: A QUESTIONS-BASED ASSESSMENT APPROACH

The  
Science  
we  
Need  
  
for the  
Ocean  
we  
Want



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# AUDIENCE INTERACTION



# OCEAN SCIENCE TO POLICY TO IMPLEMENTATION

**HER WORSHIP THE MAYOR KERRY BREEDY  
PRINCE, PORTSMOUTH, DOMINICA**



# Dominica



# Dominica



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FRAGMENTS  
of HOPE

# REBUILDING CORAL REEFS - LESSONS FROM LAUGHING BIRD CAYE NATIONAL PARK, BELIZE



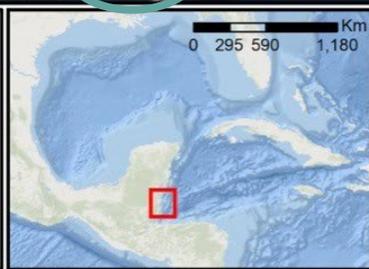
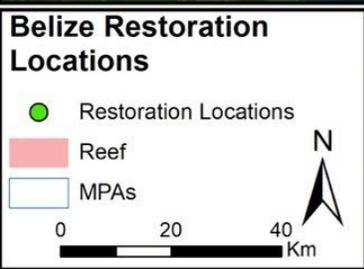
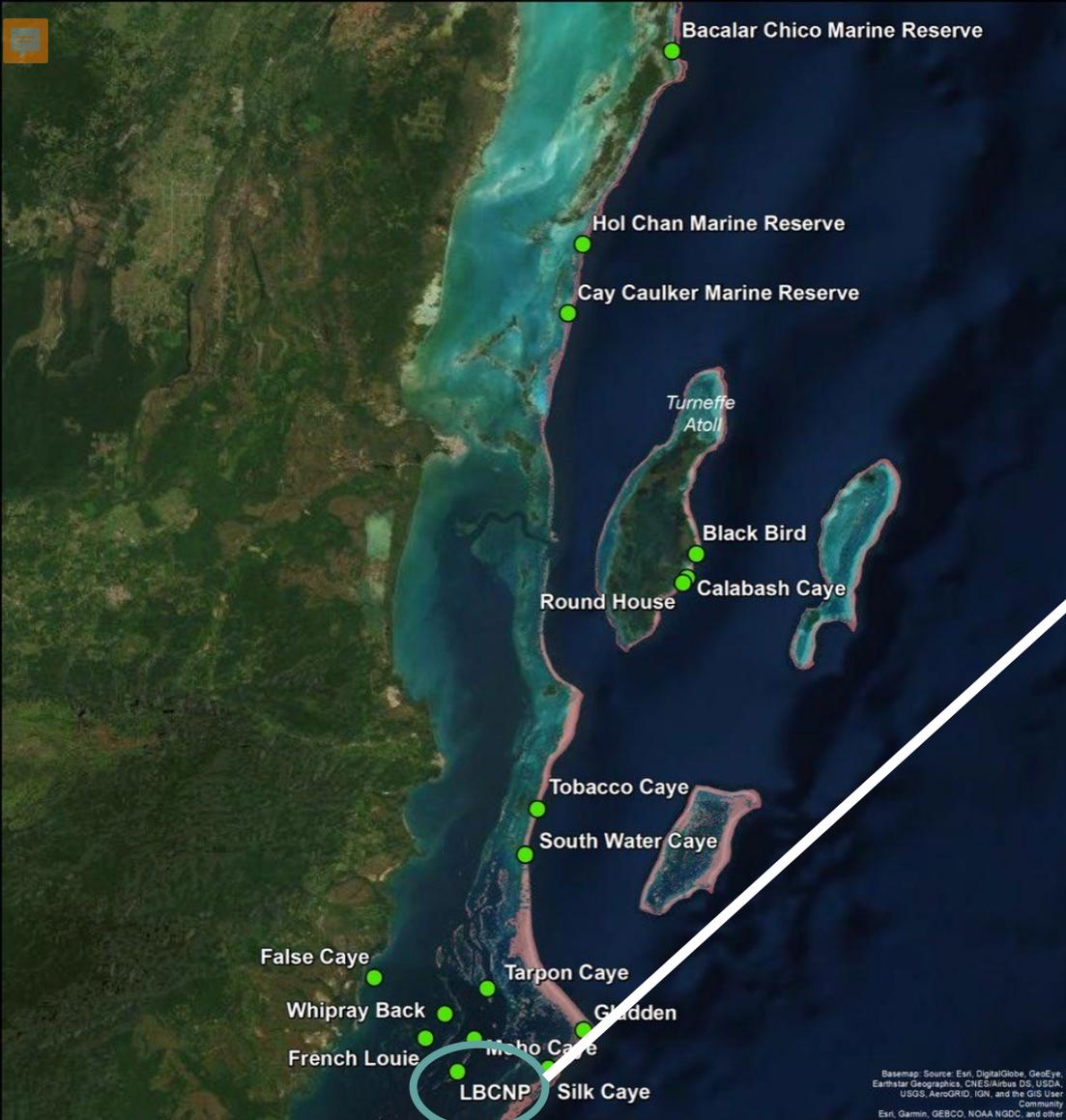
**MAYA TROTZ, PH.D., BCEEM**

PROFESSOR, UNIVERSITY OF SOUTH FLORIDA

CO-DIRECTOR, LARGE-SCALE COASTLINES & PEOPLE STRONG COASTS

**APRIL 11TH, 2024**

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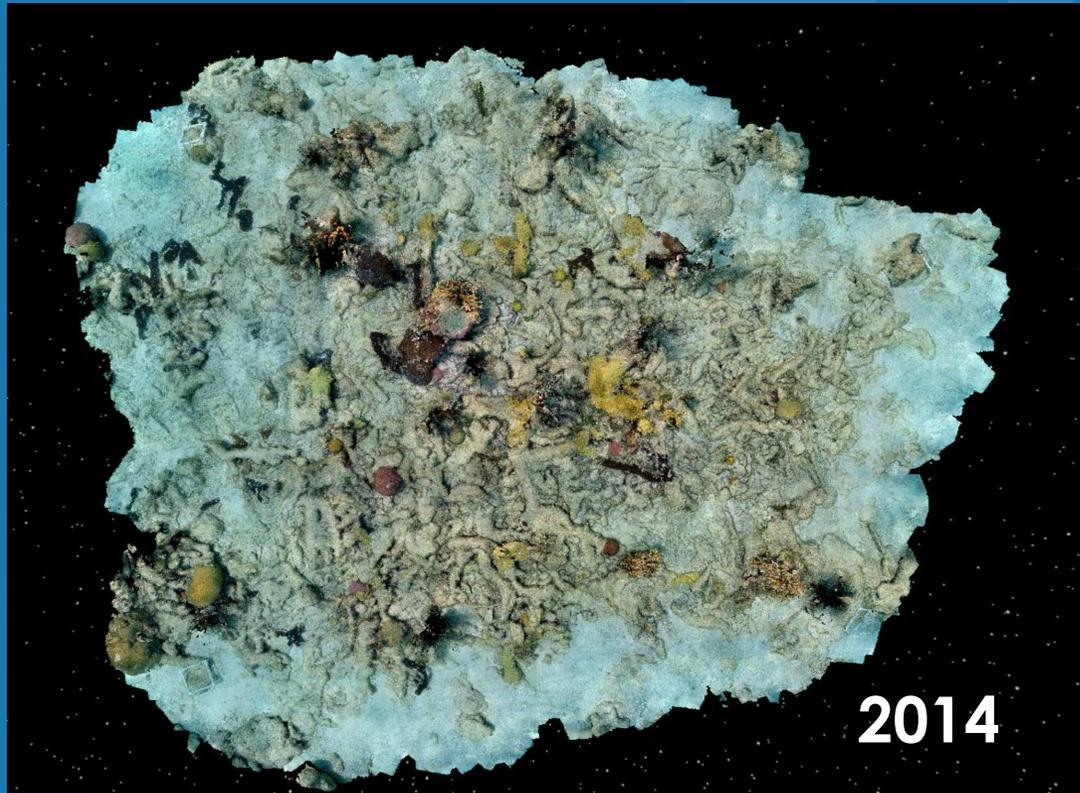


Knowledge Transfer

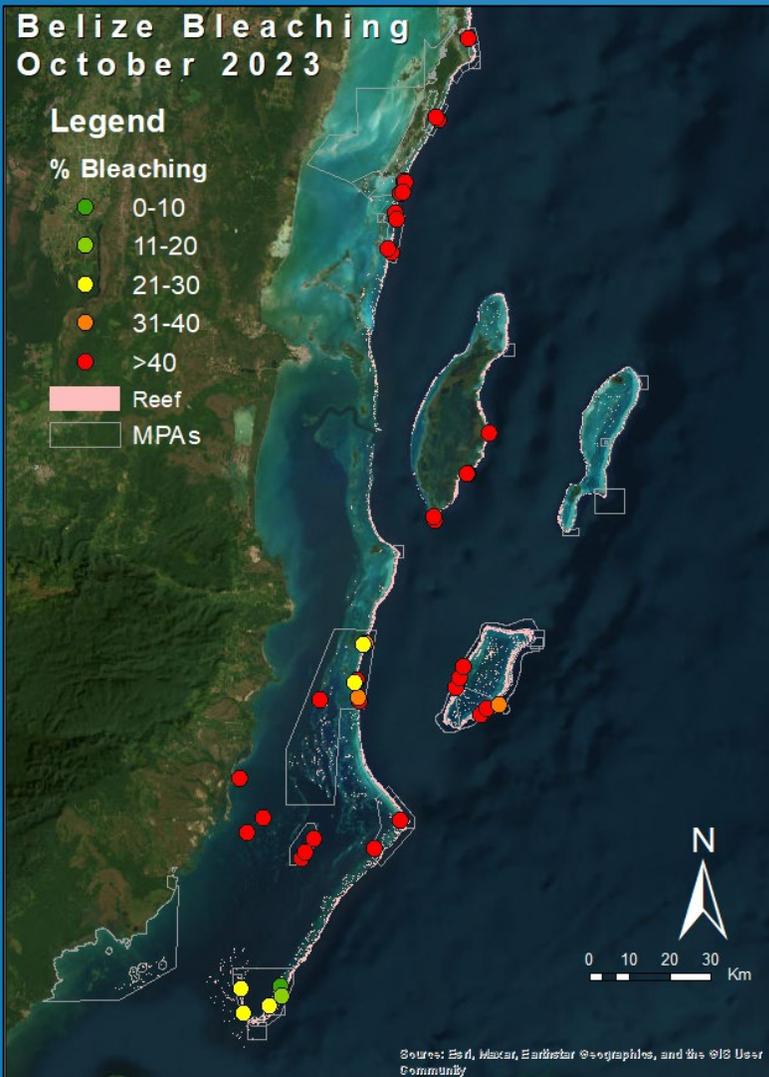
Belize  
Jamaica  
Colombia  
Honduras



# Laughing Bird Caye National Park, Belize Coral Restoration Subsite 24



# Early & Severe Bleaching event 2023...ongoing

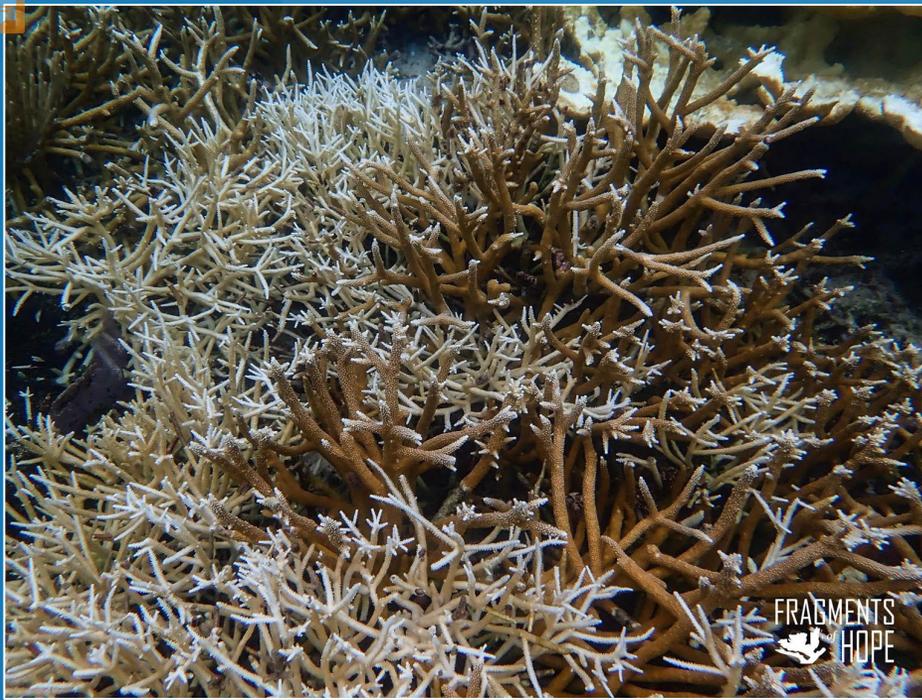


## Coral ID and Monitoring for Bleaching & Disease in Belize, in Relation to Reef Restoration Future Strategies



# Opportunities for the ocean we want

- Fill knowledge gaps on ocean economy
- Support SIDS-led innovation
- Invest in capacity sharing activities
- Develop processes for engagement
- People + Science → Policy





# STRONG COASTS

Equitable Solutions With Nature And People



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

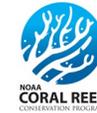


This work is supported by grants from the National Science Foundation (2209284, 1735320), including a supplement from the Every Page Foundation. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of the funders.

# THANK YOU!



[fragmentsofhope.org](https://fragmentsofhope.org)



The Pew Fellows Program in Marine Conservation



[matrotz@usf.edu](mailto:matrotz@usf.edu)



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# THE IMPORTANCE OF THE OCEAN TO TOURISM IN THE CARIBBEAN

LORETO DUFFY-MAYERS

CO CHAIR TAC OCEAN DECADE TASK FORCE

CHTA /CAST

**11 ARIL 2024**

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[locaribe.ioc-unesco.org](http://locaribe.ioc-unesco.org) | [ioc.unesco.org](http://ioc.unesco.org)

# Activities



# Culture



Corrie Scott  
[www.corriescott.net](http://www.corriescott.net)



# Impacts and Issues



# What can we do?

CHTA LIVE - A Guide to Coral Reef Restoration for the Tourism Sector

Watch later Share

A Guide to Coral Reef Restoration for the Tourism Sector

Partnering with Caribbean tourism leaders to accelerate coral restoration

The Nature Conservancy Caribbean Caribbean Hotel & Tourism Association UN environment programme Government Princier Principauté de Monaco Reef Resilience Network

0:21 / 1:17:12 YouTube

A Joint Bulletin of the CTO, the CHTA and the CIMH

## CARIBBEAN TOURISM CLIMATIC BULLETIN

for Tourism Businesses and Policymakers

March-May 2024 | Vol 8 | Issue 1

Food and Agriculture Organization of the United Nations CERMES Technical Report No. 97 Special Edition

### Sargassum Uses Guide:

A resource for Caribbean researchers, entrepreneurs and policy makers

Anne Desrochers, Shelly-Ann Cox, Hazel A. Oxenford, Brigitta van Tussenbroek

### A GUIDE TO CORAL REEF RESTORATION FOR THE TOURISM SECTOR

Partnering with Caribbean Tourism Leaders to Accelerate Coral Restoration

The Nature Conservancy Caribbean UN environment programme Government Princier Principauté de Monaco Reef Resilience Network



Saving the Reef Never Tasted This Good

## EAT LION FISH!

BEST CHOICES	ALTERNATIVES	AVOID!	OUR SUGGESTIONS
<p>LIONFISH "MOST SUSTAINABLE CHOICE"</p> <p>FLYING FISH</p> <p>DOLPHIN FISH (MAHI-MAHI)</p>	<p>WAHOO</p> <p>BARRACUDA</p> <p>KING MACKEREL (KINGFISH)</p> <p>AMBER JACK</p> <p>ATLANTIC TRIPLE-TAIL (CONGALIE)</p> <p>SKIPJACK TUNA (BONITO)</p> <p>NORTH ATLANTIC YELLOW FIN TUNA (ALBACORE)</p> <p>OCEAN TRIGGERFISH (TORPIT)</p>	<p>SHARKS</p> <p>RAYS</p> <p>ATLANTIC BIGEYE TUNA</p> <p>PARROT FISH (CHUBS)</p> <p>MARLIN</p>	<p>DO NOT CATCH, SELL OR BUY INDIVIDUAL DOLPHIN FISH LESS THAN 65CM IN LENGTH</p> <p>DO NOT CATCH, SELL OR BUY QUEEN CONCH LESS THAN 22.9 CM IN LENGTH</p> <p>IT IS ILLEGAL TO CATCH, SELL OR BUY SEA EGGS (WHITE SEA URCHINS) OUT OF SEASON IN BARBADOS</p> <p>DO NOT TAKE FEMALE LOBSTERS WITH EGGS</p> <p>DO NOT CATCH, SELL OR BUY LOBSTERS THAT ARE UNDERSIZED (LESS THAN 25CM IN LENGTH AND LESS THAN 1.5LBS IN WEIGHT)</p>

Buy these species first as they are often fast growing and reproduce quickly (e.g. flying fish & dolphin fish); current stock levels are relatively abundant and can withstand fishing pressure. They are usually well managed and caught responsibly.

Species under this list are good alternatives, but be aware of current population levels and how they are caught.

Species in this list are overfished, or caught in ways that harm the environment and other marine life; and some species may have high mercury content (e.g: sharks). Take a pass on these species.

SIZE MATTERS!

Many of the suggestions above are in line with regional regulations, management plans and precautionary measures.



THANK YOU FOR LISTENING!



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# AUDIENCE INTERACTION



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# INTERSECTIONALITY: GENDER, RACE, AND OCEAN DECADE INITIATIVES

**DR. BÁRBARA PINHEIRO**  
**UNIVERSIDADE FEDERAL DE ALAGOAS, BRAZIL**

[iocaribe.ioc-unesco.org](http://iocaribe.ioc-unesco.org) | [ioc.unesco.org](http://ioc.unesco.org)

Conserve and  
sustainably use the  
ocean, seas and marine  
resources for  
sustainable development

SDG 14

Achieve gender  
equality and  
empower all  
women and girls

SDG 5

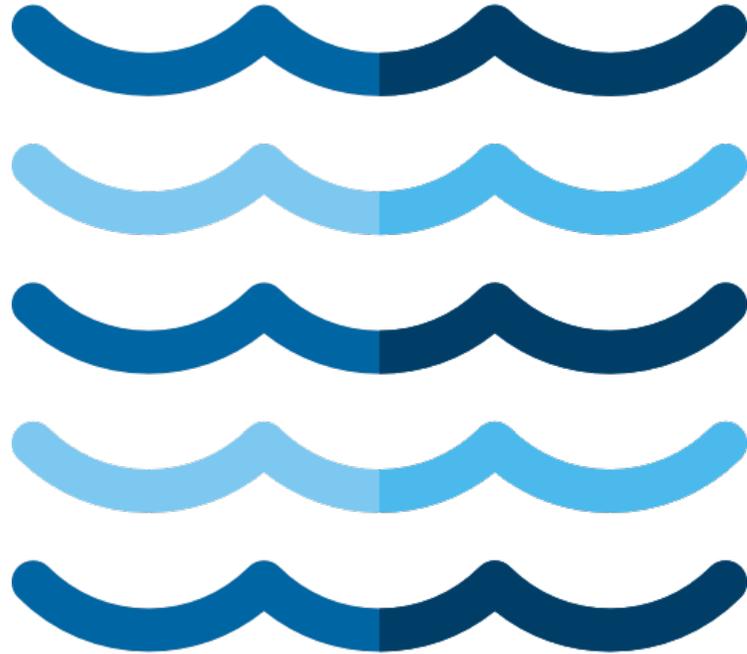
Inspire and  
include women in  
ocean affairs,  
valuing their  
importance in  
science, society and  
sustainability

WOMEN'S LEAGUE  
FOR THE OCEAN

Andrade et al, 2021

[WEBLUE]

# Women in blue: gender equity for ocean Sustainability

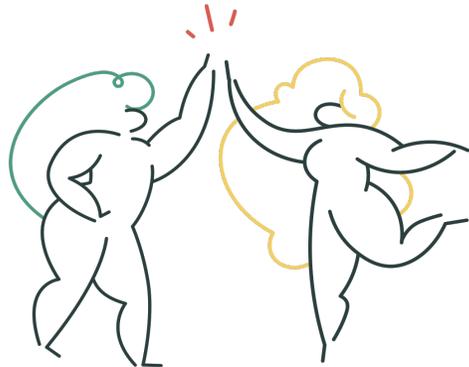


## A COLLABORATIVE INITIATIVE



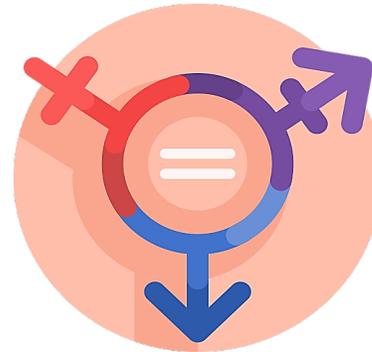
# GENERAL GOAL

## to foster women's empowerment and gender equity in marine **SCIENCE** and **CONSERVATION** and **FISHERIES** in Brazil



### WOMEN IN SCIENCE

Identifying barriers and  
solution paths for women  
participation in marine science



### FISHERIES

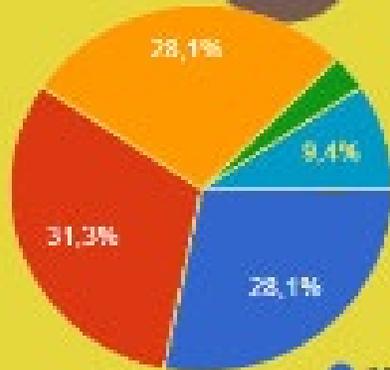
Strengthening the voices of women in fisheries to engage  
in climate change discussions by facilitating the  
connection of existing networks across Brazilian coast

Fishervoices project - videos and articles  
ORRA project submitted



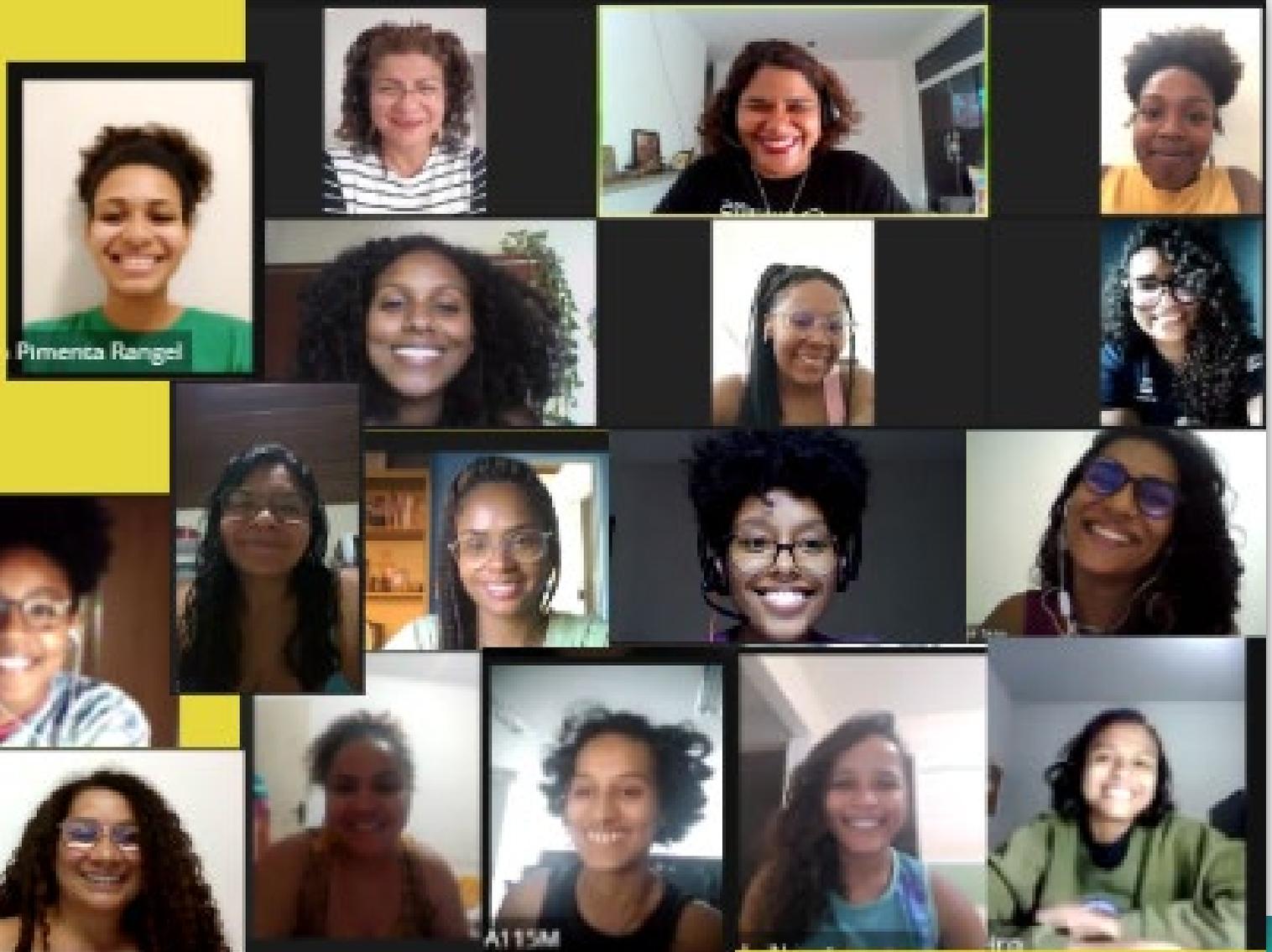
# Justice, Equity, Diversity and Inclusion

black and  
brown  
women -  
working  
group



- norte
- nordeste
- sudeste
- sul
- centro-oeste
- internacional

Pimentica Rangel





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# FISHERIES IN IOCARIBE SIDS

**DAYNE BUDDO PHD**  
DIRECTOR OF GLOBAL OCEAN POLICY  
GEORGIA AQUARIUM



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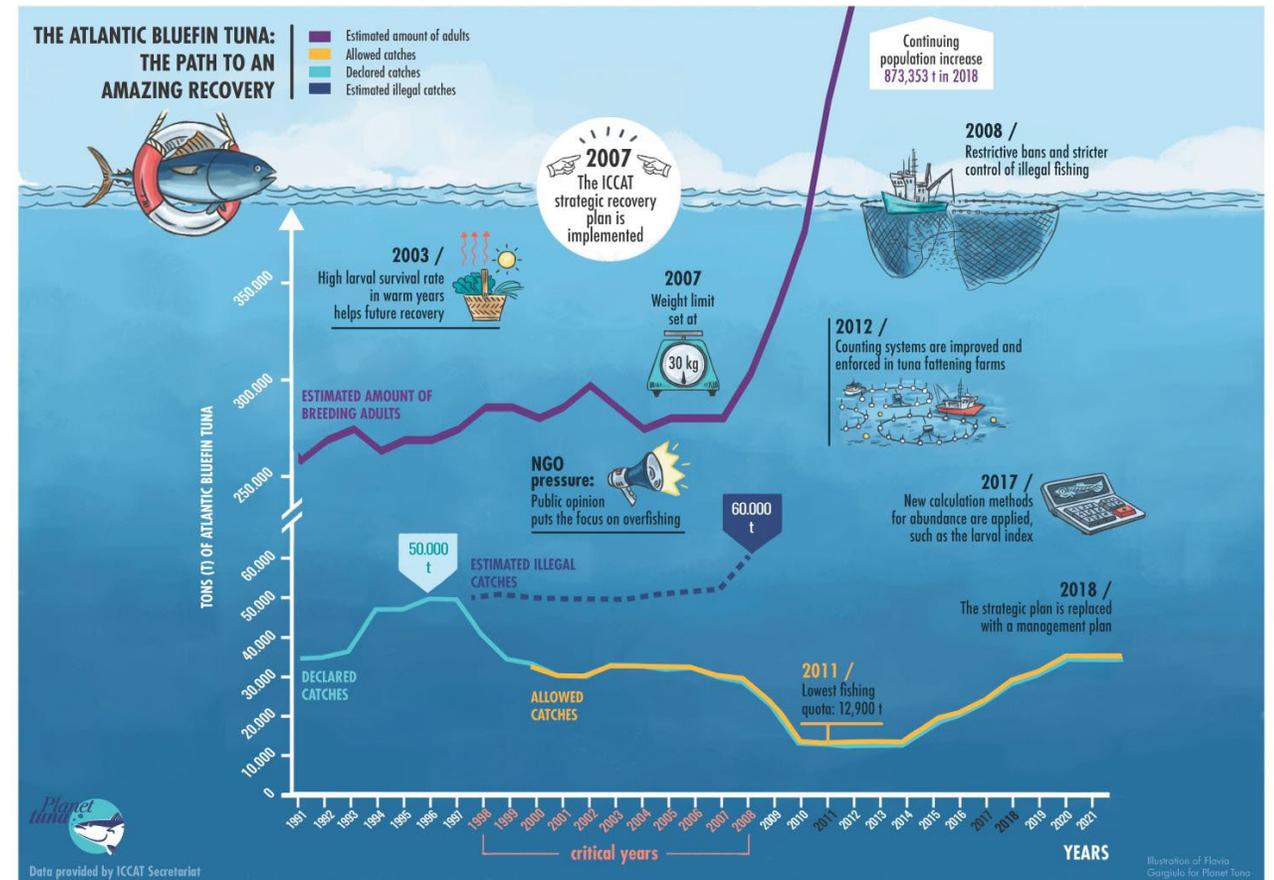
# Current State of Fisheries

- In general state of decline:
  - Overfishing (both commercial and artisanal)
  - Habitat loss and degradation
  - Poor water quality
  - Deleterious fishing practices
  - Invasive species



# Priority Needs

- Stock assessments for commercially and ecologically important species
  - conch, lobster and fin fish
  - Reef fisheries
  - Pelagic species
  - Cephalopods (squids, etc)
- Needs to be Regional and timely



# Priority Needs

- High Seas Treaty and impact of offshore fisheries in the region
  - food security
  - IUU fishing



# Priority Needs

- Increasing the system of replenishment zones for fish stocks (not just paper parks ) with strong community engagement



# Priority Needs

- Direct link of science with policy and adaptive management
- Creating a pathway for Early Career Ocean Professionals to be able to contribute effectively to fisheries science at ALL levels





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# YOUTH & THE OCEAN

**SHEYLA RAVELO PEREZ**

ECOP PROGRAMME – CUBA NODE COORDINATOR  
ENDORSED DECADE ACTION #15

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# YOUTH-CENTERED RECOMMENDATIONS FOR THE DECADE

1. ALLOCATION OF FUNDS FOR YOUTH SPECIFIC GRANTS AND FUNDING OPPORTUNITIES
2. INTEGRATION OF YOUTH INTO EVERY LEVEL OF THE DECISION-MAKING PROCESSES AND ORGANIZATIONS
3. PRIORITIZATION OF ACCESSIBILITY WHEN PLANNING FUTURE DECADE EVENTS AND CONVOCATIONS

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# AUDIENCE INTERACTION

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# SUMMARY & CLOSING:

## RECAP & CLOSING REMARKS

# IOCARIBE TEAM



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**THANK YOU** 

**MUCHAS GRACIAS** 

**MERCI BEAUCOUP** 

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