



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



2021
2030
United Nations Decade
of Ocean Science
for Sustainable Development



WESTERN TROPICAL ATLANTIC REGION

REGIÓN ATLÁNTICO TROPICAL OCCIDENTAL

One Planet, One Ocean

EMERGING PRIORITIES FOR THE DECADE WTA REGIONAL WORKSHOP

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Grey water- from
sinks and drains



Sewage



Garbage from
gullies and rivers



Sedimentation
including Mining &
Industry



Agrochemical Run-off



Harmful
algal
blooms



Fauna
mortality



Coral bleaching
and death



Seagrass
decline

FISHERIES



Health



Tourism





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One Planet, One Ocean

***Humanity is Waging
War on Nature” – UN
SG Gutierrez***



**THE
COST OF
STAYING
HEALTHY**

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THE WTA REGIONAL WORKSHOP

- ❑ To motivate the region
- ❑ To create a “movement” around ocean science
- ❑ Engaged non-traditional partners
- ❑ 1,000 participants
- ❑ Focus on the needs on individuals and communities
- ❑ No ‘science for science’s sake’





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One Grand Challenge!



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THERE ARE SIGNIFICANT GAPS IN DATA AND RESEARCH REGARDING THE TYPES, SOURCES, CONCENTRATIONS AND CHANNELS OF MARINE POLLUTANTS IN THE WESTERN TROPICAL ATLANTIC.

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Wastewater Pollution Negatively Impacts Natural Capital

20%

The percentage of Caribbean wastewater that is collected¹

85%

The amount of wastewater estimated to be entering the Caribbean Sea untreated²

#1

Untreated Wastewater is the #1 direct source of pollution to Caribbean marine ecosystems³

Wastewater is a Multiple Stressor

Freshwater

Inorganic nutrients

Pathogens

Endocrine disruptors

Suspended solids

Sediments

Heavy metals

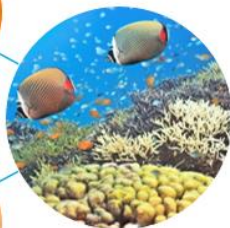


Revenue Streams + Expenditures

Nutrient enrichment >
algal blooms >
red tides > fish kills

- 1 in 4 Caribbean Jobs
- Up to 75% of GDP

Commercial Fisheries^{1,2}



Tourism³

+



Health Care⁶

Cholera
Gastroenteritis
Hepatitis

The Caribbean Sea generates more than US\$3 billion annually from tourism and fisheries.⁴

Points of Exposure

Consumption – Fish & Shellfish¹
Drinking Water – Groundwater, Surface Water⁶
Recreational Waters – Swimming, Snorkeling, Diving⁶
Airborne – Red Tides²



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One Grand Action?



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One Planet, One Ocean

- IMPROVE UNDERSTANDING OF THE FLOW AND IMPACTS OF ALL POLLUTANTS IN THE WTA
- TRANSFORMING DECISION MAKING,
- FACILITATING TARGETED POLLUTION PREVENTION MEASURES
- MORE SUSTAINABLE USE OF OUR COASTAL AND MARINE RESOURCES

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Expanded partnerships
New technologies

Regional Governance
Interdisciplinary Models

Knowledge Exchange
Standards/Best practice

Ocean Literacy
Gender and Youth

The science we need

One Planet, One Ocean

For The Ocean we Want

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A large sea turtle is the central focus, swimming towards the viewer. Its shell is a mix of brown and tan with distinct scutes. The turtle's head is in the foreground, showing its eyes and nostrils. Surrounding the turtle are several vibrant blue fish with yellow accents on their fins. In the lower corners, there are clusters of bright orange-red coral. The background is a deep, clear blue ocean with some bubbles visible.

Join the movement

The Ocean We Need, for the Sustainable Future We Want



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MUCHAS GRACIAS

.....
THANK YOU
.....

MERCI BEAUCOUP

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