

# 17<sup>th</sup> SESSION IOCARIBE



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Intergovernmental  
Oceanographic  
Commission

Sub-Commission for the Caribbean  
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Subcomisión para el Caribe y  
Regiones Adyacentes

**Bogotá,  
Colombia**

**11-13 October 2014**

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May 08 - 11, 2023

# MACHC-IOCARIBE SEABED 2030 PROJECT

**MR. DIEGO BILLINGS**  
**MACHC SEABED 2030/CSB COORDINATOR**



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# GOALS FOR THE PROJECT

- **Contribute Existing Non-Public Bathymetric Data to the IHO DCDB and GEBCO Grid**
- **Increase Data Coverage**
- **Build Capacity for mapping contributions**

# BENEFITS OF THE PROJECT

There are many benefits to having a complete map of our ocean. Knowing the seafloor's shape is fundamental for understanding....



OCEAN CIRCULATION &  
CLIMATE MODELS



TSUNAMI FORECASTING &  
PUBLIC SAFETY



NAVIGATION



MARINE CONSERVATION



MARINE SPATIAL  
PLANNING & RESOURCE  
MANAGEMENT



SEDIMENT  
TRANSPORTATION



ENVIRONMENTAL  
CHANGE



CABLE & PIPELINE  
ROUTING

# BUDGET FOR THE PROJECT

The Seabed 2030 Project estimated the effort for a single multibeam-equipped ship to complete the global map at roughly 1,000 years (Mayer et al., 2018). Following the same methodology and assumptions and based on data integrated into the GEBCO 2021 grid, we estimate that a single vessel would take approximately 75 years to map the remaining 77% of the Tropical Americas and Caribbean region. Mapping the remainder of this region with multibeam-enabled ships will likely cost the order \$270-350 Million US dollars, including data acquisition and processing costs.

# TECHNICAL ASSISTANCE NEEDED FOR THE PROJECT

- One of the main assistance needed is training in Hydrography. Many member states lacked training in Hydrography and the equipment to carry out surveys.
- Some member states do not have an official Hydrographic entity to collect bathymetry. Therefore, a high-level technical visit from the IHO is needed for these countries.
- Legal aspects of sharing data.

**THANK YOU** 

**MUCHAS GRACIAS** 

**MERCI BEAUCOUP** 