

23rd Conference of the Meso American - Caribbean Sea Hydrographic Commission

MACHC / IOCARIBE Seabed 2030: Planning Results and Recommendations

Cecilia Cortina

Seabed 2030 Coordinator



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MACHC – IOCARIBE Seabed 2030 Strategy

Work Plans addresses IHO Recommendations for CSB, GEBCO and Seabed 2030:

MACHC members are invited to:

- ✓ **33.1** Consider the impacts of the increasing global societal and **United Nations (UN)** driven need to **complete the picture of the seafloor** as well as the potential benefits to individual coastal States.
- ✓ **33.2** Make **data freely available** for inclusion in the **DCDB** and the widest possible use, in accordance with **IHO Resolution 1/2017**.
- ✓ **33.3** Consider to review **national legislation to remove barriers restricting CSB activities within their waters.**



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UN Decade on Ocean Science

Ocean Decade Challenge 8:

Develop a comprehensive digital representation of the ocean



Nippon Foundation – GEBCO Seabed 2030 Project

Officially endorsed as part of the UN Ocean Decade



MACHC – IOCARIBE Seabed 2030 Strategy 2021 - 2030

Officially endorsed as part of the UN Ocean Decade

Regional Contribution



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UN Decade on Ocean Science



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
COMMISSION OCÉANOGRAPHIQUE INTERGOUVERNEMENTALE
COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ
اللجنة الدولية الحكومية لعلوم المحيطات
政府间海洋学委员会

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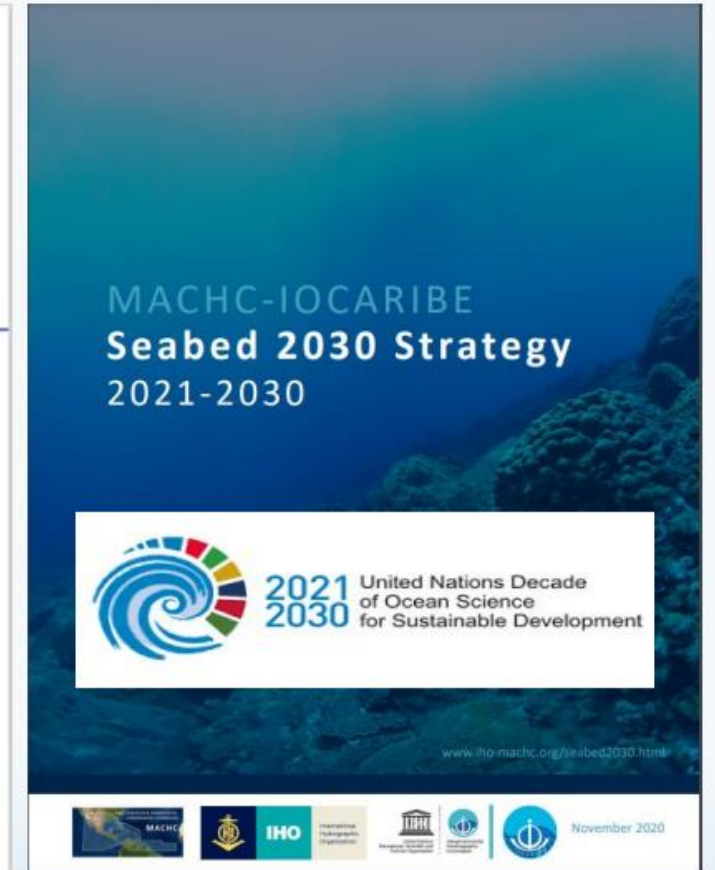
Ref. : IOC/VR/22.286/JB/AC/ml

3 June 2022

Subject: Endorsement letter of Decade Action No.140.2

Dear Ms Cortina,

It is with great pleasure that I am writing to inform you of the endorsement of your Decade Action entitled "No 140.2. MACHC-IOCARIBE Seabed 2030 Project" as a project forming part of the UN Decade of Ocean Science for Sustainable Development 2021-2030. Please accept my sincere congratulations for this achievement. Let me also thank you for your engagement and commitment to the Ocean Decade vision of the science we need for the ocean we want.



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MACHC / IOCARIBE Seabed 2030 Planning:

Overview of Virtual Meetings

- Webinar – June 23: Crowdsourced Bathymetry
- Meeting POC – November 4: Status Work Plan 2022



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Overview of Webinar



Home MICC MMSDIWG Capacity Building Committee Maritime Safety Information Seabed 2030 Disaster Response Links Acronyms

Español

[Webinars 2022](#)
[Webinars 2021](#)
[Webinars 2020](#)

HOME » SEABED 2030 » SEABED 2030 VIRTUAL MEETINGS

Seabed 2030 Virtual Meetings - 2022

Webinars
<p>MACHC Webinar on the Seabed 2030 Project: (June 23th, 2022)</p> <ul style="list-style-type: none">• Interactio Speaker Guidelines• Interactio Speaker Recommendations• Flyer• Agenda• Presentation

https://www.iho-machc.org/documents/seabed2030_doc3.html

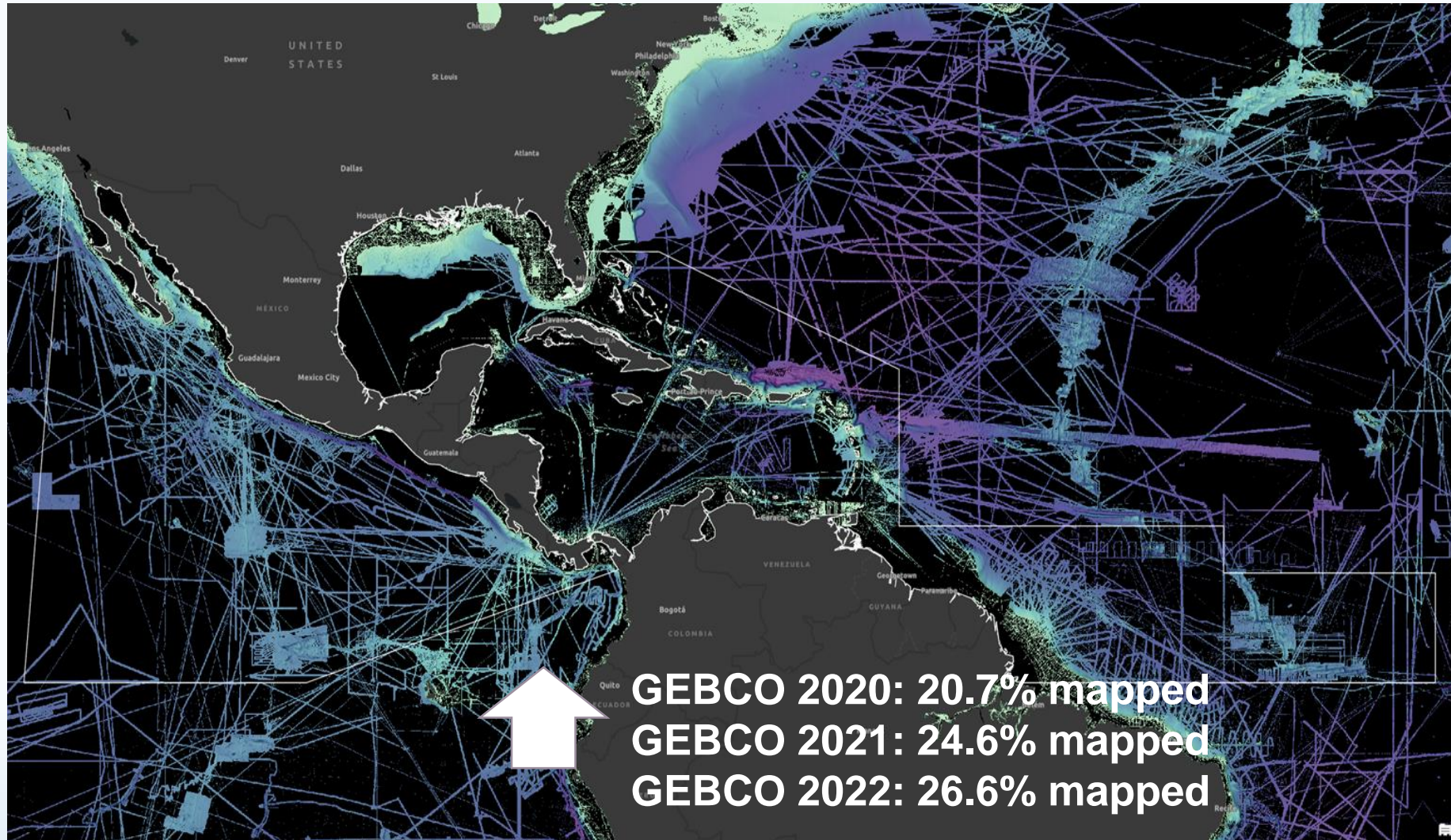


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Current Mapping Status in the Region (GEBCO 2022)



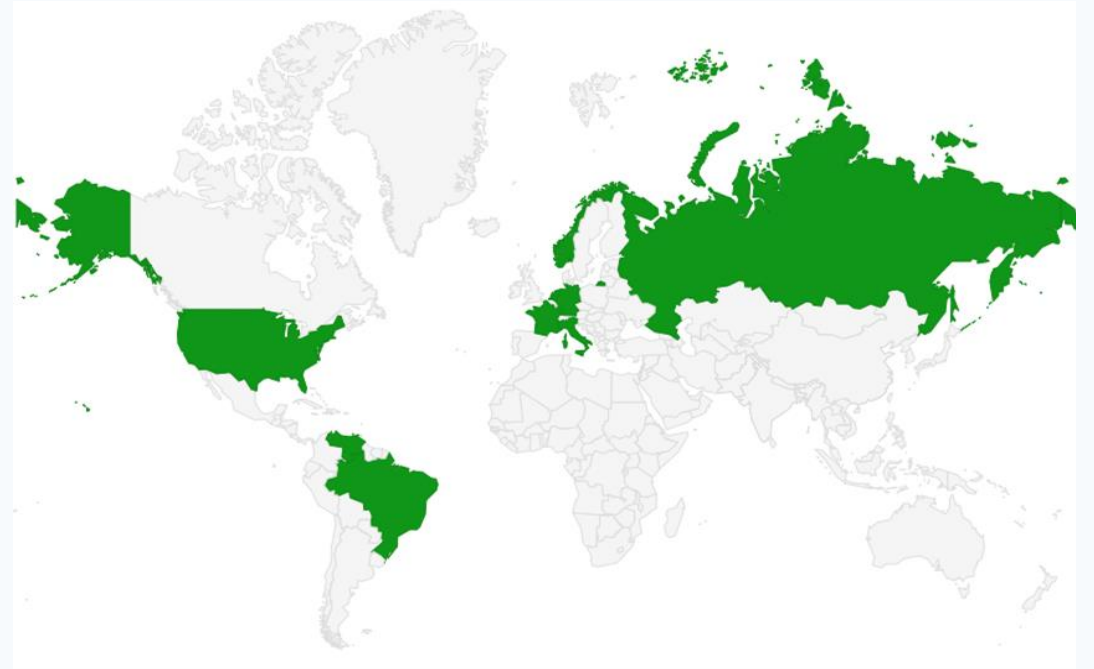
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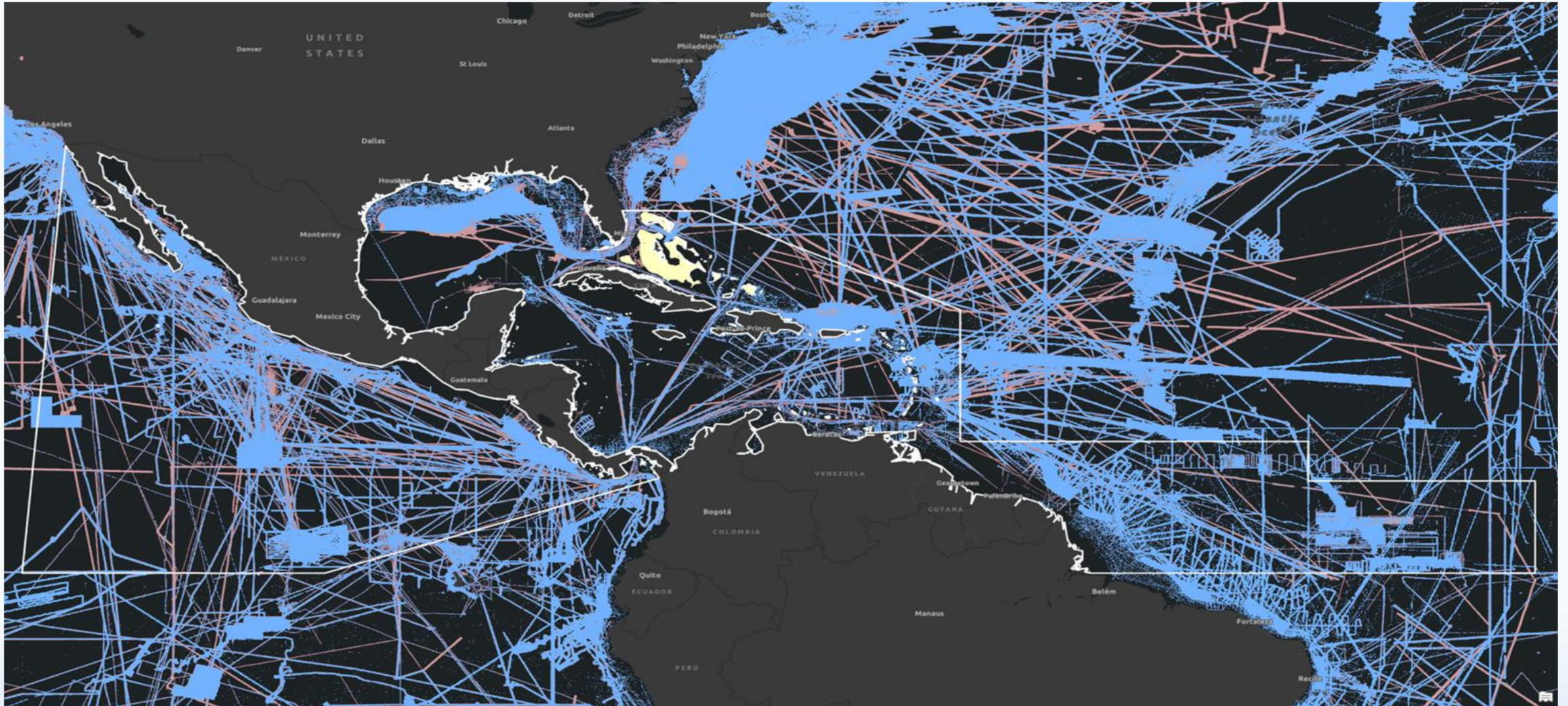
Overview of Data in the MACHC region

- Multiple sectors
 - Government
 - Academia
 - Industry
- Multiple data types
 - ENC
 - Multibeam
 - Singlebeam
 - Seismic
 - Satellite-Derived Bathymetry
- Curated data from 10 countries



THANK YOU TO ALL CONTRIBUTORS!

GEBCO 2022 plus newly contributed data



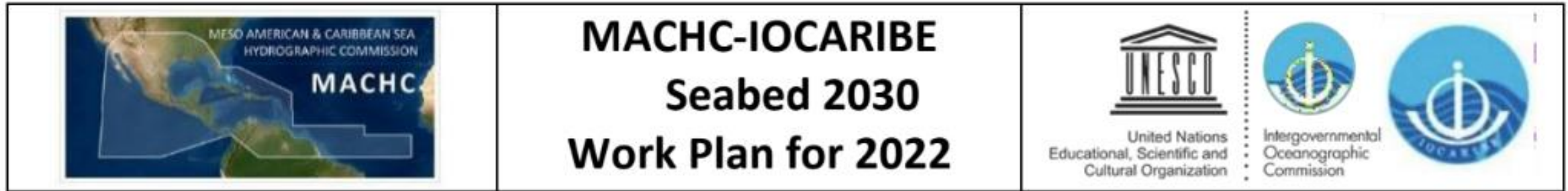
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2022 Work Plan Status



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2022 Work Plan Activities Status

#	Action Item	Contribution so far
001	Assemble information (polygons) about existing non-public bathymetric data falling under its remit not yet identified on the MACHC Web App to identify gaps.	NLD, UK
002	Broadly communicate the steps to submit polygons showing data coverage of existing data to both the RDACC and the IHO DCDB.	HND, GTM, DOM, CRI
003	Look at existing regulatory requirements, legislation, bilateral, contractual or other arrangements for surveying within national waters of jurisdiction to reassess what bathymetric data can be made publicly available and at what resolution is acceptable to the government and to the data owner. what resolution is acceptable to the government and to the data owner. Share examples on the MACHC Initiative Seabed 2030 webpage	NLD, UK, BRA
004	Broadly communicate the steps to submit data to the IHO DCDB and the RDACC.	Webinar 2020, 2021, 2022

MACHC – IOCARIBE Seabed 2030

2022 Work Plan Activities Status

#	Action Item	Contribution so far
005	Contribute multibeam, single-beam and ENC data to the IHO DCDB, wherever possible, for long-term archive and data access.	NLD, UK, BRA
006	Contribute national bathymetric data products to the RDACC at the appropriate resolution approved by the national authorities for integration into the GEBCO grid.	NLD, UK, BRA
007	Identify ways to promote or to support bathymetric data sharing.	NLD, UK, BRA
008	Assemble information and polygons about upcoming surveys and data acquisition opportunities in national waters of jurisdiction to integrate into the WebApp to define data gaps and plan coordinated mapping campaigns.	NLD, UK, BRA



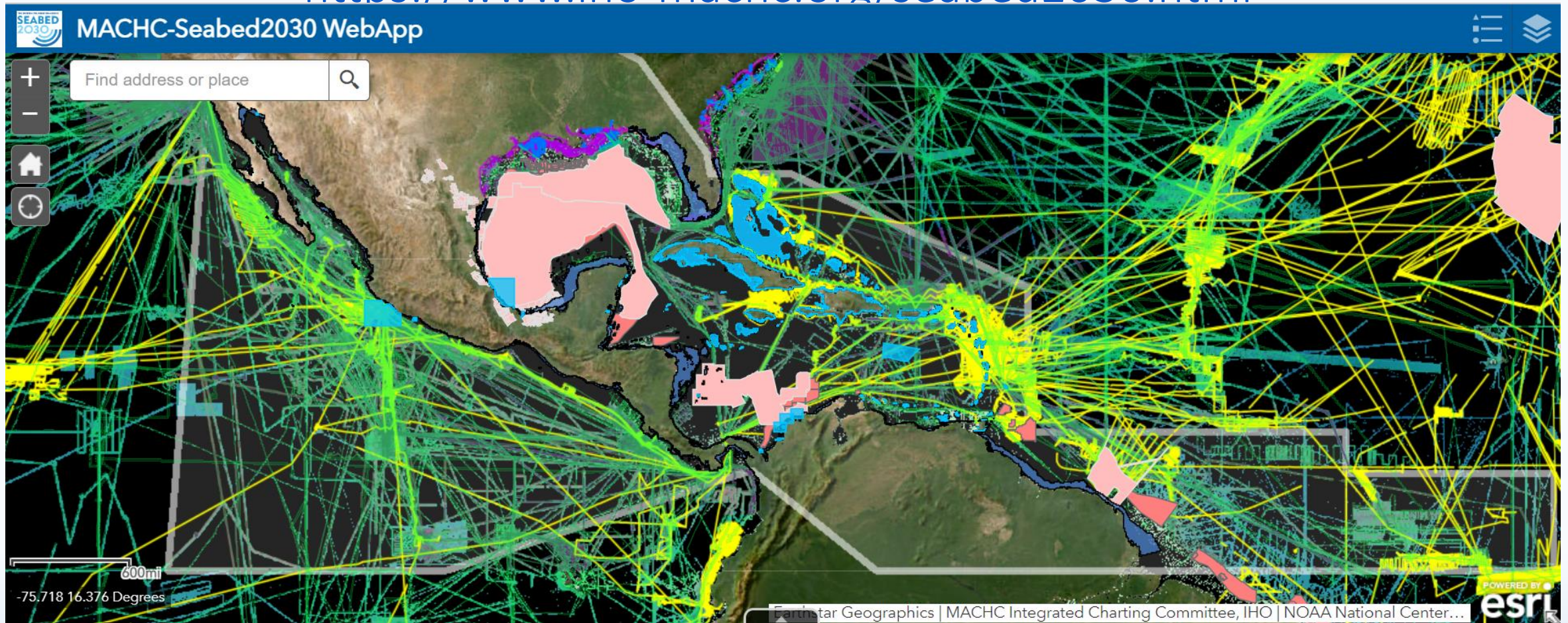
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MACHC Seabed2030 Web Application

<https://www.iho-machc.org/seabed2030.html>



Contact Percy.Pacheco@noaa.gov for assistance on how to contribute



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2022 Work Plan Activities Status

#	Action Item	Contribution so far
009	Identify gap areas in the MACHC region without any kind of bathymetric data (distances greater than 1,000 m) providing the polygons to the respective Coastal States.	2021
010	Explore with national authorities expanded permissions for opportunistic data acquisition via research and survey vessels during transits, consistent with national policy.	NLD, UK, BRA
011	Provide information webinar on how to respond to IRCC CL 1/2020 or IHO CL 21/2020 to allow for the provision of CSB data from ships within waters subject to their national jurisdiction into the public domain, according to national policy, or update it.	CRI, COL, BRA, NLD, USA, GBR
012	Provide informational webinar on how to carryout CSB field trials with designated “trusted nodes” (data liaisons) and data collectors (mariners) in the region to provide data to the IHO DCDB.	NLD, UK



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2022 Work Plan Activities Status

#	Action Item	Contribution so far
013	Identify technical and other challenges to data collection, assembly and sharing and look for solutions.	NLD
014	Conduct an annual review process to resolve challenges to data collection and sharing.	This action will be informed by the responses from action 13
015	Provide technical support and data submission guidelines for data and accompanying metadata and Type Identifier (TID) information.	Webinar 2021



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2022 Work Plan Activities Results

Technical and other challenges to data collection, assembly and sharing and look for solutions:

BRA: The Brazilian Hydrographic Office has no authority to obtain the sharing of data acquired under the remit of the Brazilian Oil and Gas Agency.

CRI: It does not have an official Hydrographic entity to collect bathymetry. CRI has requested a high level visit from IHO through MACHC CBC.

GTM, HND: Equipment and training.



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2022 Work Plan Activities Results

Technical and other challenges to data collection, assembly and sharing and look for solutions *continued*:

COL, MEX: Legal aspects about share data.

SUR: No platform and equipment for surveys beyond the EEZ.



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MACHC – IOCARIBE Seabed 2030 Draft Work Plan for 2023

	<p>MACHC-IOCARIBE Seabed 2030 DRAFT Work Plan for 2023</p>	
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MACHC – IOCARIBE Seabed 2030

Draft Work Plan for 2023

Action 4 Proposed amendment

#	Action Item
004	2022: Broadly communicate the steps to submit data to the IHO DCDB and the RDACC.
004	2023: "Constantly communicate the Seabed 2030 Project importance, the gap areas identified and the steps to submit data to the IHO DCDB and the RDACC."

MACHC – IOCARIBE Seabed 2030

Draft Work Plan for 2023

Action 11 Proposed amendment

#	Action Item
011	2022: Provide information webinar on how to respond to IRCC CL 1/2020 or IHO CL 21/2020 to allow for the provision of CSB data from ships within waters subject to their national jurisdiction into the public domain, according to national policy.
011	2023: Respond to IRCC CL 1/2020 or IHO CL 21/2020 to allow for the provision of CSB data from ships within waters subject to their national jurisdiction into the public domain, according to national policy.



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Draft Work Plan for 2023

Action 12 Proposed amendment

#	Action Item
012	2022: Provide informational webinar on how to carry out CSB field trials with designated “trusted nodes” (data liaisons) and data collectors (mariners) in the region to provide data to the IHO DCDB.
012	2023: Consider carrying CSB field trials with designated “trusted nodes” (data liaisons) and data collectors (mariners) in the region to provide data to the IHO DCDB.

Accelerating Toward 2030:



- Technical Innovation
 - Data acquisition
 - Data synthesis & integration
- Collaboration
 - Leverage efforts to work toward common goals
 - Share knowledge, data, approaches, workflows, and tools
 - Prioritization for mapping campaigns



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Actions requested at MACHC Plenary:

1. Note this report
2. Approve the 2023 Workplan (retaining all the actions from the 2022 Work Plan with the proposed amendments)



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- THANK YOU!!!
 - GRACIAS !!!



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