

## 22<sup>ND</sup> MEETING OF THE MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION (MACHC22)

Video-teleconference (VTC), 30 November to 3 December

### Contribution to the IHO Work Programme 2021

Task 3.2.1.5	Prepare for and report meetings of the Regional Hydrographic Commissions: MACHC
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The 22<sup>nd</sup> Meeting of the Meso American & Caribbean Sea Hydrographic Commission (MACHC22), initially planned to be held in New Orleans or Miami (USA), was held from 30 November to 3 December 2021 in a VTC format due to the COVID-19 pandemic. The conference was organized in two different parts: a pre-conference of four meetings:

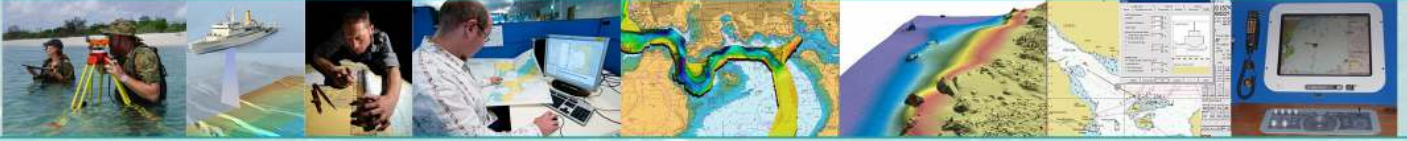
- MACHC International Charting Coordination (MICC) Working Group (WG);
- MACHC Marine Spatial Data Infrastructure (MMSDI) WG;
- Seabed2030 and Capacity Building Committee and
- the main conference,

as a 4 day meeting with 8 sessions of 1.5 hours each. A total of ninety-six participants attended the meeting. The IHO Secretariat was represented by Director Luigi Sinapi and Assistant Director Leonel Manteigas.

The meeting commenced with the welcome address by the MACHC Chair, Admiral Edgar Barbosa (Brazil), who thanked all participants and mentioned the importance of some topics of the agenda such as the IHO Strategic Plan and the S-100 implementation. IHO Director Luigi Sinapi provided his welcome speech regretting the VTC format especially in this unique time with important challenges and profound transformations for the international hydrographic community. He also enhanced the importance of the Regional Hydrographic Commissions and mentioned that MACHC is a clear example to be followed around the world.

Director Sinapi provided an overview of the MACHC membership enhancing the fact that IHO Secretariat stands ready to assist non-member States to become Members. He reported on the 5<sup>th</sup> Meeting of the Council and the proposals from HSSC, IRCC and the Secretariat for delivery of the Strategic Performance Indicators (SPIs), as well as the need for IHO to support basic Capacity Building for the migration to the S-100 standard. He reported on the outcomes of the IRCC October 2021 Workshop on the Strategic Plan and the progress on the Empowering Women in Hydrography project, as well as the IHO e-Learning Center at ROK and IHO Outreach.

The Meeting proceeded with an update on the outcomes from the IRCC13 and HSSC13 meetings, mainly focused on the actions and recommendations to MACHC, and the SPI attributed by IRCC to MACHC. In this regard, MACHC adopted the Gap Analysis proposed



by SWPHC. With reference to HSSC13 meeting, the importance of the S-100 Roadmap and the options of the parallel production of S-57 and S-101 was communicated.

IMO/IHO World-Wide Navigational Warning Service NAVAREA IV/XII coordinator provided a presentation, reminding on the IHO MSI Key Performance Indicator - SPI 3.1.1 with a target of 90% of Coastal States capable to provide MSI by 2026. It was reported that in 2021 there was a decrease in the MSI received from the National Coordinators. Finally, an update on the training courses was presented, as well as the areas from where no MSI was received.

Mr Jim Rogers (US), Chair of the MACHC MSDI reported on the respective activities and accomplishments, such as the update of the work plan and the respective website, as well as the engagements, partnerships and future directions. Colombia presented a video on how Maritime, Riverine and Coastal SDI contribute to the broadcasting, dissemination and appropriation of the knowledge of half of the Colombian territory.

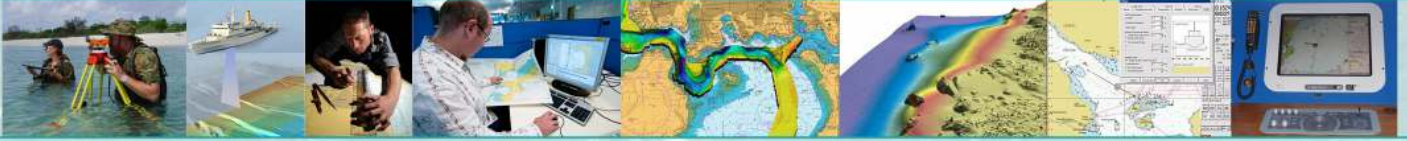
The UNGGIM Working Group on Marine Geospatial Information Chair, Mr John Nyberg (US), presented the Operational Framework for the Integrated Geospatial Information Framework - Hydro (IGIF-H). The meeting proceeded with two presentations from industry: "Ten Easy Steps to realize the Benefits of a Marine SDI" from Oceanwise and "MSDI and MACHC: A Regional Analysis" from IIC Technologies.

During the session dedicated to the Nautical Charts and Publications, the MACHC International Charting Coordination (MICC) WG presented a report on the developed activities, and the schemes of ENC's and INT charts. The Region held an S-100 Webinar in November 2021 and a questionnaire was presented about the production plan of S-101 and S-102 products. A proposal to extend the MACHC Region to include parts of the Amazon River was presented. The same proposal had been already presented and approved at SWAtHC14. The work of the ENC Scheme Working Group with three new grids proposed for the Scale Band 1 was presented. UKHO also provided a presentation about the proposed GB ENC Coverage and gridded scheme. The meeting then proceeded with two presentations from industry, the S-100 Capability within the CARIS Product Suite from Teledyne CARIS and Challenges of S-101 Validation from SevenCs.

The Capacity Building (CB) Coordinator, Ms Lucy Fieldhouse (US), reported on the last CBSC Meeting and the effects of the COVID-19 pandemic on the CB work program. Ms Katie Ries (US) presented the NOAA's support to the IHO Empowering Women in Hydrography project, mentioning the expectation to start in 2022 and the provision of guidelines for the participation. The University of Southern Mississippi then presented the education opportunities at USM.

Due to the large number of Members and Associated Members, the National Report presentations were divided into three different groups. In the end, each group provided a report on the common points of potential collaboration, messages for MACHC plenary and the unexpected achievements despite the COVID Pandemic.

The session dedicated to Survey and Risk started with a presentation of the MACHC Seabed 2030 with an overview of the virtual meetings, the current status in the Region and with the data contributors being enhanced. The Seabed2030 2021 Work Plan Activities Status and the 2022 draft was also presented as well as the challenges faced with the Seabed 2030 funded CSB Field trials. A presentation was provided by NGA about the Global Maritime

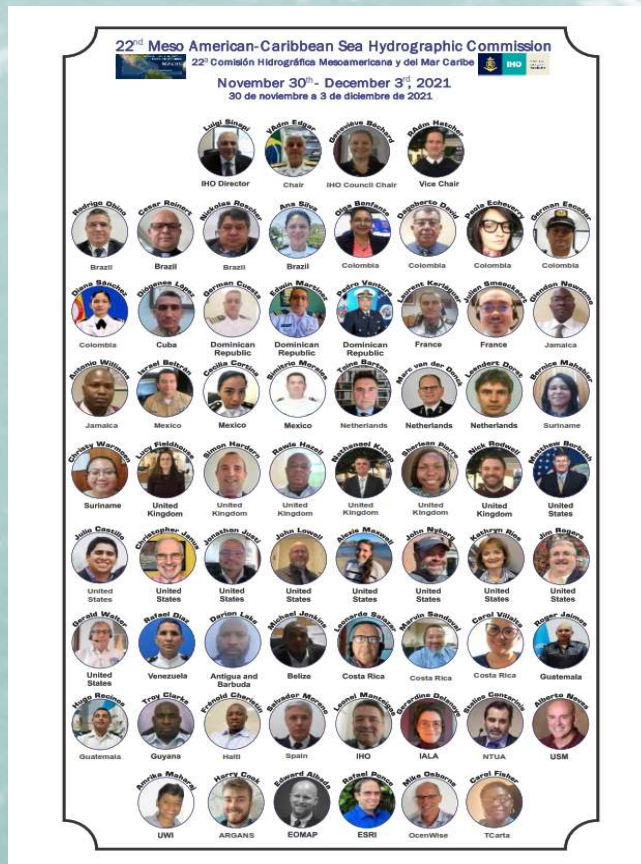


Traffic Density Service (GMTDS) and the leveraging of Automatic Identification Systems to map global maritime vessel traffic.

The session dedicated to Disasters started with the Caribbean Disaster Emergency Management Agency Response (CDEMA) Responses 2021 & IHO Collaboration Opportunities that explained the vast area of coverage as well as the multi disaster response and the Regional Response Mechanism (RRM). It was also reported on the support to the three events to which CDEMA responded in 2021, such as: the Volcanic activity monitoring support to St. Vincent and Grenadines; the floods in Guyana; and, the earthquake response support to Haiti in August 2021. CDEMA also provided a multi-sectorial coordination for the COVID 19 in the MACHC. In relation with the potential collaboration, the possibility to become an Observer of the IHO and be engaged in different focal areas was mentioned.

Closing the meeting, the Chair recognized the importance of Mrs Katie Ries' collaboration in the Region expressing his and the entire Commission's appreciation, announced that Vice-Admiral Renato Arruda (?) will take over the MACHC Chairmanship, and thanked all participants and MACHC Staff for the achieved results.

The next MACHC23 will be held in the week of 28 November to 02 December 2022 (dates and place to be confirmed by July 2022).



Participants of the MACHC22 Meeting