

22nd Conference of the Meso American - Caribbean Sea Hydrographic Commission

IHO Secretariat report to MACHC

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AGENDA

1. IHO and Regional membership
2. IHO Council activities
3. INT Chart and ENC Production Coordination
4. Capacity Building
5. Maritime Safety Information Services
6. Crowdsourced Bathymetry
7. GEBCO support through Seabed 2030
8. IHO GIS and Databases
9. IHO Outreach
10. Actions requested of MACHC



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IHO and regional membership

- Since the last MACHC Conference Lebanon and Kenya acceded to the IHO Convention and the IHO membership now stands at 95. With the IHO CL 36/2021, since September 2021 the Democratic Republic of Congo has been reinstated as a Member State of the IHO. Serbia, Syria and Vanuatu remain suspended from Member States rights.
- The IHO Secretariat stands ready to assist those non-IHO Member States with the application process for membership of the IHO, and to pay High Level Visits to those States in the MACHC region not yet IHO Member States.

Recommendation:

MACHC is invited to encourage and propose to the IHO Secretariat High Level Visits to those States not yet IHO Member States.



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IHO Council activities

- ✓ MACHC was represented at C-5 by Brazil and Netherlands.
- ✓ Proposals from HSSC, IRCC and the Secretariat for delivery of the Strategic Performance Indicators (SPIs) for the implementation of the IHO Strategic Plan.
- ✓ Need for IHO to support basic Capacity Building for the migration to S-100.
- ✓ Governance document in support of the dual fuel concept.
- ✓ Outcome of the IRCC October Workshop on the Strategic Plan.
- ✓ Empowering Women in Hydrography project was launched with a kick-off meeting.
- ✓ IHO e-Learning Center's success is dependent on contributions of online learning material from MS and partners.



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IHO Council activities

Recommendations:

- *MACHC is invited to continue on the implementation of the IHO Strategic Plan, elaborate on the gap analysis and support IRCC in identifying measures and values to measure those SPI of regional interest allocated to IRCC, in accordance with IRCC CL 01/2021.*
- *MACHC members to note the appropriate HSSC's governance document on the 'dual fuel' concept.*
- *MACHC members are invited to participate at the EWH project and provide proposals via the specific webpage (<https://iho.int/en/basic-cbsc-ewh>) has been set up under the Capacity Building Sub-Committee (CBSC) for this project.*
- *MACHC members are invited to provide contributions of online learning material to the Project Team established for the IHO e-Learning Center at KHOA.*



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INT Chart and ENC Production Coordination

- ✓ Establishment of a Baseline Symbology Project Team (led by CA) under the NCWG aiming to support the automated production of paper charts from S-101 data.
- ✓ Approval of a new set of WEND100 Principles with IHO CL 37/2021.
- ✓ Implementation Guidelines of the WEND100 Principles are in progress.

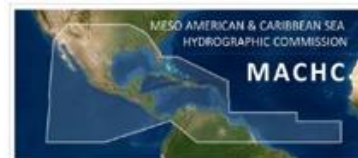
Recommendations:

- *With the possible development of INTToGIS III to encompass S-100 services, MACHC members are invited to consider the future role of the Coordinator for Region B.*
- *MACHC is invited to actively participate at the finalization of the WEND100 implementation Guidelines for the transition from S-57 to S-100 Schemes.*



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Capacity Building Programme

- ✓ 2021 CBWP will probably require a review (many projects to be moved to the 2022).
- ✓ MACHC has five funded CB projects in the 2021 CBWP.
- ✓ For 2022, the Capacity Building Fund raises from €85.000 to €100.000.
- ✓ The IHO Capacity Building strategy lays particular emphasis on providing a Maritime Safety Information (MSI) service.

Recommendations:

- *MACHC members are invited to continue follow and evaluate the possibility to contribute to the CB programme through the MACHC CB Coordinator.*
- *MACHC is invited to identify suitable individuals to undertake both the online e-learning modules and the physical MSI training course, and ensure their subsequent continued relevant employment within the national structures.*



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Maritime Safety Information Services

- ✓ Modernization of the Communications and Global Maritime Distress and Safety System (GMDSS) continues.
- ✓ Iridium SafetyCast service as a recognized mobile satellite service (RMSS) provider in the GMDSS continues to be implemented.

Recommendations:

- *Encourage all information providers to complete agreements with all RMSS and commence the necessary testing of the SafetyCast system.*
- *Establish and maintain effective communications with the relevant NAV and MET Area Coordinators to ensure the timely provision of MSI.*
- *Use and follow the guidance provided in S-53 to ensure the necessary facilities and capabilities are provided and maintained for the gathering and communication of MSI within their area of national responsibility.*



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Crowdsourced Bathymetry

- ✓ Revision of IHO publication B-12 is in progress.
- ✓ Many coastal States continue to misunderstand the objectives and focus of the CSB initiative.
- ✓ The network of Regional Coordinators would be the principle means of engaging with IHO Member States to advocate for open data access and CSB activities.
- ✓ The quality of data has grown considerably in the last years having now more than 60TB.
- ✓ Importance of much closer cooperation and coordination with GEBCO and Seabed 2030 in communication and outreach to avoid duplication of effort, to ensure a harmonized message is maintained, and to leverage the momentum generated by the UN Decade and the SDGs.



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Crowdsourced Bathymetry

Recommendations:

- *MACHC members and associate members are encouraged to officialise and/or review their positions on the conduct of CSB in their waters of jurisdiction (iaw IHO CL 21/2020 and IRCC CL 1/2020) and to identify further potential sources of bathymetric measurements and survey data providers to facilitate the further completion of the DCDB data holdings, as well as to make data openly available for inclusion in the DCDB and the widest possible use, in accordance with IHO Resolution 1/2017.*
- *MACHC is invited to continue with its active participation in the initiatives such as UN Decade for Ocean Science (Calls for Decade Actions) and Seabed2030.*



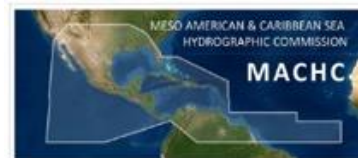
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GEBCO support through Seabed 2030

- ✓ The minimum acceptable data coverage developed from 6% to 21%.
- ✓ UN Decade of Ocean Science for sustainable development clearly stated the need to complete a comprehensive map of the ocean floor.
- ✓ To establish a new GEBCO Sub-Committee on Education and Training.
- ✓ Nippon Foundation GEBCO-Seabed 2030 project was endorsed as an Action of UN Decade of Ocean Science for Sustainable Development.
- ✓ From September to November 2021, Seabed 2030 announced new partnerships.
- ✓ New global survey calls for greater coordination of seabed mapping activities were launched in London, 15 October 2021, in order to move towards an agreed list of strategically important priority areas for further action.



GEBCO support through Seabed 2030

Recommendations:

- *MACHC members are encouraged to become actively involved in the GEBCO programme and its subordinate projects, to support the collection of data within their waters, and to make more detailed and comprehensive seabed data available, in particular deep ocean data from transit or commercial/scientific surveys.*
- *MACHC members to continue inviting GEBCO programme and Seabed 2030 project representatives to MACHC meetings to discuss options for deepened cooperation and support, in order to make more people aware of the importance of gaining a complete picture of the seabed.*



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IHO GIS and Databases

- ✓ An Esri-based GIS solution has been implemented for the efficient visualization of geospatial data stored in the Country Information System, enabling access to various layers and functions through the IHO website such as the IHO ENC Catalogue. Currently, five WebGIS applications have been available to the public in this new environment.
- ✓ Work has continued on developing a GIS database application to support C-55 - Status of Hydrographic Surveying and Charting Worldwide and the work of the IHO. In response to the request to complement C-55 composite data (percentage of areas adequately surveyed / requiring re-survey / not surveyed) with CATZOC information, CBSC established the C-55 Review Project Team (C-55RPT) to deal with this task.



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IHO GIS and Databases

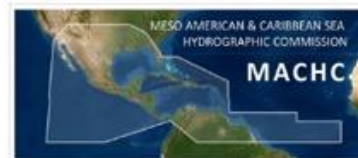
Recommendations:

- *Countries in the MACHC Region are invited to review their entry in the IHO Yearbook and C-55 and to provide the IHO Secretariat with the appropriate updates or to report no change (CL 20/2019 refers).*



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IHO Outreach

World Hydrography Day

- ✓ As announced at the Council-5, with IHO CL 43/2021, the Secretary General proposed the following theme for WHD 2022: *“How hydrography can contribute to the United Nations Ocean Decade”*.

Recommendations:

MACHC Members are invited to note the endorsement of the IHO Council, consider the proposed theme for WHD 2022 and provide their comments in response to the IHO CL 43/2021, if any, to the Secretariat no later than 31 December 2021.



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IHO Outreach

IHO Centenary Celebrations (IHO-100)

- ✓ The IHO Secretariat has organized an exhibition on "Historical Nautical Charts and Mediterranean" in April 2019, an international Symposium on "A Historical Approach for Measurements and Protection of Oceans and World Waters" in June 2019, has published an IHO Prestige Book on "100 Years of International Cooperation in Hydrography", the "Peak-of-the-peak" was held in conjunction with the World Hydrography Day (WHD) on 21 June 2021, and a Conference on "The celebration of IHO centenary" was held on 17 November 2021. The centenary events are also linked with the United Nations Decade of Ocean Science for Sustainable Development (2021-2030) which has been coordinated by the IOC of UNESCO.



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IHO Outreach

International Hydrographic Review

- ✓ The IHO Secretariat worked with the University of New Brunswick (UNB), Canada, in a project to develop a digital repository of the complete library of the IHR. As a result, volumes from the entire collections (1923 to 2018) are available online at: <https://journals.lib.unb.ca/index.php/ihr>.
- ✓ To promote and modernize the distribution of the content of the IHR the IHO Secretariat established a new IHR website that is available in: <https://ihr.iho.int/>.

Recommendations:

MACHC members are invited to submit papers for publication in the IHR.



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Actions requested of MACHC

1. **Note** the Report
2. **Consider** the recommendations proposed in the Report
3. **Review** entries related to IHO C-55 and P-5 (Yearbook) at least annually
4. **Consider** submitting papers for publication in the International Hydrographic Review
5. **Take any other actions** as considered appropriate



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