



MESO AMERICAN - CARIBBEAN SEA HYDROGRAPHIC COMMISSION



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

November 30 - December 3, 2021
VTC – Brazil

List of Actions

Legend
White: open
Light Grey: continuous
Light Green: completed or closed

Table 1: ACTION ITEMS FROM THE 22nd MACHC Conference

Action #	Reference	Action	Responsible party	Due date	Status
22.2.1.1	IHO/13.1	MACHC to support IRCC in identifying figures and values to measure the Strategic Performance Indicators (SPIs) of regional interest allocated to IRCC, in accordance with IRCC CL 01/2021 (Annex A) .	MACHC Chair Members	Dec 24, 2021	Completed MACHC Letter 19/2021 responded to IRCC CL 01/2021 with comments about this matter
22.2.1.2	IHO/13.2	Members to note the appropriate HSSC's governance document on the 'dual fuel' concept.	Members	HSSC 14	Completed The governance document on the

					'dual fuel' concept (Dual-Fuel Concept for S-100 ECDIS – Executive Summary) was approved by the IHO Council at C-6.
22.2.1.3 22.2.1.1.3	IHO/16.1 IRCC 13	MACHC is invited to consider extend the role of Charting Regional Coordinators for the implementation of the S-100 Implementation Roadmap and the future role of the Coordinator of the S-100 products and services for Region B.	MICC / Members	MACHC23	Open
22.2.1.4	IHO/16.2	Members are invited to actively participate at the finalization of the WEND-100 implementation Guidelines for the transition from S-57 to S-101 Schemes.	Members	IRCC 14	Completed WEND-100 implementation Guidelines version 1.0 was approved by the IHO Council at C-6.
22.2.1.5	IHO/23.2	Establish and maintain effective communications with the relevant NAVAREA and METAREA Coordinators to ensure the timely provision of MSI.	Members	MACHC23	Open
22.2.1.1.1	IRCC 13/5 IRCC 13/6	MACHC to develop measurements to the SPIs allocated by IRCC to the Commission and to include these measurements in MACHC Committee/Working Groups annual Work Plans.	MACHC Chair / CBC / MICC / MMSDWG / Seabed 2030 Coord / Members	July 2022	Completed The measurements to the SPIs allocated by IRCC to RHCs was approved by the IHO Council at C-6.
22.2.1.1.2	IRCC 13	Members to Note the information on ECDIS anomalies and support the implementation of the recommendations given by the ENCWG (IHO CL 40/2021).	Members	Jan 21, 2022	Completed MACHC Secretary sent a message regarding this issue

22.2.1.1.4 22.3.b.3.1	IRCC 13	MACHC to coordinate the efforts on the implementation of S-100 and to promote the cooperation and exchange of experiences and best practices.	CBC / MICC / Members	MACHC23	Open
22.2.1.1.5	IRCC 13	Members and submitting institutions are encouraged to consult the Guidelines , the FAQs and the White Paper early in the process of preparing submissions for programme recognition.	Members	MACHC23	New Continuous Action
22.2.1.1.6	IRCC 13	Members and submitting institutions are encouraged to engage with the IHO Secretariat early in the process of them preparing submissions for programme recognition.	Members	MACHC23	New Continuous Action
22.2.1.1.7	IRCC 13 IRCC CL 01/2021	Coastal States in the Region to review the IHO Strategic Plan and complete a high-level gap analysis for each goal (Ref: SWPHC18 IHO Strategic Plan 2021-2026 Gap Analysis template - Annex E to SWPHC CL 05/2020).	MACHC Chair Members	ASAP	MACHC Letter 2/2022 Open – in progress
22.2.2.1	MACHC 20.3 17.2.1.1	Members are invited to review the MACHC website to verify your MSI status matrix by 1 February of each year. Report any changes to navsafety@nga.mil	Members	Feb 1, 2022	Completed MACHC Secretary sent a message reminding about it Existing Continuous Action
22.2.2.2	MACHC 20.3 17.2.1.1 IRCC11/8	Members are invited to review and verify the National Coordinator point of contact for your country by 1 February of each year. Report any changes to navsafety@nga.mil	Members	Feb 1, 2022	Completed MACHC Secretary sent a message reminding about it Existing Continuous Action
22.3.b.3.2	National Reports Hydrographic Survey	Share and facilitate the sharing of findings on future hydrographic capability of new technologies.	CB Coordinator / Members	MACHC23	Open
22.3.b.3.3	National Reports Hydrographic Survey	Share CATZOC/C-55 policies, in order to gain insight, and seek harmonization.	MICC / Members	MACHC23	Open

22.5.1.1	Capacity Building IHO/13.3	Members are invited to consider participating on the Empowering Women in Hydrography Initiative hosted by NOAA OCS (for more information, contact: jonathan.justi@noaa.gov) and providing proposals via the IHO EWH webpage (https://iho.int/en/basic-cb-sc-ewh).	Members	MACHC23	New Continuous Action
22.5.1.2	Capacity Building IHO/13.4	Members to consider contributing to the IHO e-Learning Centre project. See https://iho.int/en/miscellaneous-2	Members	IRCC 14	New Continuous Action
22.6.1.1	Seabed 2030	MACHC to elaborate and submit an IRCC proposal to establish a RHC Seabed2030/CSB Coordinators team to meet regularly and exchange experiences, lessons learned and provide mutual support in implementing their roles.	Seabed2030 Coordinator / MACHC Chair	IRCC 14	Completed MACHC Chair submitted proposal to IRCC at IRCC14 that decided CSBWG should investigate the establishment of a Seabed 2030/CSB Coordinator Collaboration Team.

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Table 2: ACTION ITEMS FROM THE 21st MACHC Conference

No	Reference	Action	Responsible party	Due date	Status
21.7.1.1 22.7.1.1	Disaster Response MSDI	Follow up with CDEMA Executive Director to explore collaboration opportunities for disaster response and for CDEMA to participate in the next MMSDIWG Meeting.	MACHC Chair / MMSDIWG	ASAP	MACHC Letter 3/2022 Successive attempts to schedule short meeting with no success.

Table 3: ACTION ITEMS FROM THE 20th MACHC Conference

No	Reference	Action	Responsible party	Due date	Status
List of actions 20th MACHC meeting					
20.5.2	Capacity Building	COCATRAM 2020 Hydrography and Cartography Course content and logistics to be planned and participants from the region identified.	CB Coordinator / COCATRAM / IHO Secretariat / Colombia	Dec 31, 2022	Delayed by the pandemic, hope to hold in 2022 as part of the next IMO biennium plan.
20.6.4.b.3	Crowdsourced Bathymetry	IHO to determine how to handle responses from non-IHO coastal States to IRCC CL 1/2020 .	IHO Secretariat / Seabed 2030 Coordinator	MACHC23	In process- Contingent upon receipt of non-IHO coastal State responses.

Table 4: STATUS OF PREVIOUS OPEN ACTIONS (as agreed at MACHC20)

No	Reference	Action	Responsible party	Due date	Status
List of actions 19th MACHC meeting					
19.5c 20.5	Capacity Building	Report on the efforts to develop an individual recognition scheme (for Latin American hydrographers graduated from CAT A and B programs).	IHO Secretariat with Brazil, Portugal and Spain	MACHC23	Open-in progress. Colombia showed interested in working on this Action

Table 5: CONTINUOUS ACTION ITEMS

List of continuous actions 21st MACHC Conference					
21.2.1.6	IHO Secretariat (IHR)	Members are invited to submit papers for publication in the International Hydrographic Review .	Members	January or May.	Continuous.
21.2.1.1.11	IHO Secretariat (Seabed 2030)	Members are encouraged to promote the vital need to map the entire seabed.	Members / Seabed 2030 Coordinator	As appropriate.	Continuous.
21.2.1.1.12	IHO Secretariat (Seabed 2030)	Members are encouraged to make existing seabed mapping data available for use by Seabed 2030 Project in the GEBCO Grid.	Members / Seabed 2030 Coordinator	As data becomes available.	Continuous.
List of continuous actions 20th MACHC Conference					
20.5.1.2	Capacity Building	Provide/update content for the Training Opportunities section in English and Spanish of the MACHC Initiative website. (Contact Percy Pacheco) Kongsberg, COCATRAM, Spain, etc.	Members, Industry, Regional Orgs	Annually, or as changes occur.	Continuous.

20.5.3	Capacity Building	Members to liaise with their IMO representatives to request joint technical visits with IALA and IHO (funded by the IMO) as part of the IMO MS Audit Scheme (VIMSAS).	Members	As appropriate.	Continuous.
20.7.1.1.	Disaster Response	Provide/update senior and working level POCs for Disaster Response in English and Spanish on the MACHC Initiative website.	Members	Annually, or as changes occur.	Continuous.
20.8.1.3	MSDI	Members and all coastal States are encouraged to make their other open marine spatial data available on the Caribbean Marine Atlas to take advantage of the excellent existing infrastructure and not have to recreate it individually.	Members	As data becomes available.	Continuous.
List of continuous actions 19th MACHC Conference					
19.4.1a 20.7.4	Reports from Observing Organizations	Engage National Tsunami Warning contacts and determine if inundation modelers are using the best available bathymetric data to support improved land-sea inundation models.	Members	Annually	Continuous.
19.5	Capacity Building	Members to send capacity building and other requirements officially to the Chair to channel to others/committee/working groups who might help.	Members	Annually	Continuous.
19.5a	Capacity Building	Continually update the list of CB training activities on the MACHC Initiatives website sponsored by other Members, Committees, regional and other partners, such as FOCAHIMECA, COCATRAM, National training opportunities, IMarEST, etc.	CB Coordinator	Annually, or as changes occur.	Continuous.
19.8.1	SDI/MSDI (15.5.1.4) 20.8.2.1	Members to consider joining the UN-GGIM WG on Marine Geospatial Information. If not participating directly in the UN-GGIM WGMGI are encouraged to contact their national representatives to the UN to make them aware of the importance of this initiative (contact Mr. John Nyberg for further information) and its benefits.	Members	Annually	Continuous.

List of continuous actions 17 th MACHC Conference					
17.2.1.1 20.2.3 21.2.2.1	IHO Secretariat (MSI)	Members not shaded in green in MSI status matrix on the MACHC Initiatives website (https://www.iho-machc.org/msi.html) should get in touch with NAVAREA IV and XII Coordinator (Mr. Christopher Janus) and/or IHO Secretariat (IHO Assistant Director Leonel Manteigas) to request an update as appropriate. Also ensure that National points of contact are accurate.	Members	Annually	Continuous.
17.2.1.4 21.2.1.5	IHO Secretariat (IRRC 8/32)	Members are strongly encouraged to review their entry in the P-5 (IHO Yearbook) and C-55 (Status of Hydrographic Surveying and Nautical Charting Worldwide) and to provide annually the IHO Secretariat with the appropriate updates or to report of “no change” (IHO CL 20/2019 refers). https://iho.formstack.com/forms/web_form_p5 https://iho.formstack.com/forms/web_form_c55	Members	Annually	Continuous.
	IRCC 11/8	National Coordinators to review the contents of the relevant Annexes of the GMDSS Master Plan and of section C (MSI) of IHO Publication C-55 (Status of Hydrographic Surveying and Nautical Charting Worldwide) to ensure consistency for their national entries.	Members	Annually	Continuous.
17.2.2.3	IRCC 8/8	Encourage closer engagement of the National MSI Coordinators of Members with the relevant NAVAREA Coordinator. Delegates to update their contact information in the NAVAREA IV list on the new MACHC Initiatives website.	National Authorities and Members to the NAVAREA Coordinator	Annually, or as changes occur.	Continuous.
17.2.2.4	IRCC 8/31	Be attentive to opportunities to raise awareness on the role of hydrography and the importance of improving mankind’s knowledge of the seas and oceans in support of the sustainable development goals, disaster risk reduction and the integrity of the oceans.	MACHC Chair in coordination with Members	As appropriate	Continuous. (examples: UN-GGIM; Seabed 2030; UN Decade of Ocean Science)

17.5.2.3	Risk Assessment	Invite Ms. Dawn Seepersad to provide an update on her Risk Assessment project for the Greater Caribbean Region.	MACHC Chair	Annually till project completion.	Continuous.
17.6.4	DTM	Members to consider making ENC bathymetric and contour information available for the IBCCA project via GEBCO (DCDB).	Members	As data becomes available.	Continuous.
17.6.5 20.6.4.1 21.2.1.1.10	DTM	Provide existing bathymetric data (datasets and subsets) to the IHO DCDB (bathydata@iho.int) , including that collected by private sector companies under their authorization. Guidance on how to contribute data is found in English and Spanish on the MACHC Initiative website.	Members	As data becomes available.	Continuous.

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