



**INTERNATIONAL HYDROGRAPHIC ORGANIZATION
MESO AMERICAN - CARIBBEAN SEA HYDROGRAPHIC COMMISSION**



**Action List
from
21st Meso American - Caribbean Sea Hydrographic
Commission Meeting
November 30 - December 3, 2020
VTC -- United States**

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

Table 1: ACTION ITEMS FROM THE 21st MACHC

Action #	Reference	Action	Responsible party	Due date	Status
21.2.1.1	IHO/11.1 MACHC/ 20.9.6	Members are invited to check the quality of the information available in INTtoGIS II for Region B and report any discrepancies.	MICC Chair / Members	MACHC22	In Progress Approved as part of the MICC 2021 Work Plan.
21.2.1.2	IHO/11.3	MACHC is invited to follow the finalization of the WEND-100 principles, which will be presented at the next IRCC13 in June 2021, through the active participation at the WENDWG works.	Members	IRCC 13	Completed.
21.2.1.4	IHO/23.1	MACHC Members and Associate Members are invited to officialise and/or review their positions on the conduct of CSB in their waters of jurisdiction (cfr. IHO CCLL 11/2019 and 20/2020)	Members / Seabed 2030 Coordinator	MACHC22	Completed.

		and to identify further potential sources of bathymetric measurements and survey data providers to facilitate the further completion of the DCDB data holdings.			
21.2.1.5	IHO/32 IRCC12/3 IRCC11/18 MACHC/ 17.2.1.4	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://www.iho.int/iho_pubs/CB/C-55/c55.pdf	Members	MACHC22	Continuous.
21.2.1.6	IHO/39	Members are invited to submit papers for publication in the International Hydrographic Review.	Members	MACHC22	Continuous.
21.2.1.1.1	IRCC 12/1	Share the publication S-67 Mariners' Guide to Accuracy of Depth Information in Electronic Navigational Charts (ENC) to the Marine Institutions and Schools.	Members	IRCC 13	Completed.
21.2.1.1.2	IRCC 12/2 IHO/11.2	Member States to review the Future of Paper Charts report and provide feedback on it through the MACHC Chair to the Nautical Cartography Working Group (NCWG).	MICC / Members	IRCC 13	Completed.
21.2.1.1.4	IRCC 12/4 IHO/8	MACHC to implement the IHO Resolution 2/1997 as amended by A-2. Partly implemented - Brazil and NL to work with MACHC Chair to examine further action.	MACHC Chair / Brazil / Netherlands	Mar 1, 2021	Completed.
21.2.1.1.5	IRCC 12/16	Invite the Member States who have experience in developing and providing e-Learning contents to share their resources and experiences to the IHO CBSC e-Learning Project Team.	Members via MACHC CB Chair	IRCC 13	Completed.
21.2.1.1.6	IRCC 12/11	Promote the discussion of any item with relevance to SDI/MSDI/MSP and to take appropriate actions.	MMSDIWG	IRCC 13	Completed.
21.2.1.1.7	IRCC 12/12	Add CSB and Seabed 2030 initiatives as permanent Agenda items at future MACHC meetings.	MACHC Chair	MACHC22	Completed.
21.2.1.1.8	IRCC 12/13	Encourage Member States to support the CSB initiative with positive actions, such as requiring all research vessels to collect bathymetric data for late uploading, when on passage or when it does not interfere with other research activities.	Seabed 2030 Coordinator / Members	IRCC 13	Completed.
21.2.1.1.9	IHO/27 IRCC 12/14	Modify the current title of “RHC Seabed 2030 Coordinator” to a joint “RHC CSB/Seabed 2030 Coordinator” and provide the identification of the Coordinators.	MACHC Chair	Mar 1, 2021	Completed.

21.2.1.1.10	IHO/27 IRCC 12/16 MACHC/ 20.6.4.1, 17.6.5	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	IRCC 13	Continuous.
21.2.1.1.11	IRCC 12/17 IHO/27	Members are encouraged to promote the vital need to map the entire seabed.	Members / Seabed 2030 Coordinator	Continuous	Continuous.
21.2.1.1.12	IRCC 12/19 MACHC/ 20.6.4.1 IHO/27	Members are encouraged to make existing seabed mapping data available for use by Seabed 2030 Project in the GEBCO Grid.	Members / Seabed 2030 Coordinator	Continuous	Continuous.
21.2.1.1.13	IHO/23.2 IRCC 12/20 MACHC/ 17.2.2.4	RHC to participate at Regional level in those actions of the UN Ocean Decade matching with IHO's new strategic targets (IRCC12-08C).	Members / Seabed 2030 Coordinator	Jan 15, 2021	Completed.
21.2.2.1	MACHC/20.3, 17.2.1.1	Members not shaded in green in MSI status matrix in 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	MACHC22	Continuous.
21.2.2.2	MACHC/20.3, 17.2.1.1 IRCC11/8	Member States to review and verify the MSI National Coordinator point of contact for your respective country and report any changes to navsafety@nga.mil by February 1, 2021.	Members	Feb 1, 2021	Completed.
21.7.1.1		Chair to follow up with CDEMA Executive Director to explore collaboration opportunities for disaster response.	MACHC Chair	MACHC23	CDEMA Executive Director will make a presentation at MACHC22

Table 2: ACTION ITEMS FROM THE 20th MACHC

No	Reference	Action	Responsible party	Due date	Status
List of actions 20th MACHC meeting					
20.5.2		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		IHO to determine how to handle responses from non-IHO coastal States to IRCC CL 1/2020.	IHO Secretariat	MACHC23	In process- Contingent upon receipt of non-IHO coastal State responses.

Table 3: 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.

Table 4: CONTINUOUS ACTION ITEMS

No	Subject mater	Action	Responsible party	Due date	Status
List of continuous actions 21st MACHC meeting					
21.2.1.6		Members are invited to submit papers for publication in the International Hydrographic Review.	Members	Annually, or as changes occur.	Continuous.
21.2.1.1.11		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		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 meeting					
20.5.1.2		Provide/update content for the Training Opportunities section 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		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.		Provide/update senior and working level POCs on the MACHC website for disaster response and complete country/industry/regional disaster response capability and resource templates .	Members	Annually, or as changes occur.	Continuous.
20.8.1.3		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.

No	Subject mater	Action	Responsible party	Due date	Status
List of continuous actions 19th MACHC meeting					
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 Initiative website sponsored by other Member States, 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 17th MACHC meeting					
17.2.1.1 20.2.3 21.2.2.1	IHO Secretariat (MSI)	Members not shaded in green in MSI status matrix in 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	Members	Annually	Continuous.

No	Subject mater	Action	Responsible party	Due date	Status
		Secretariat with the appropriate updates or to report of “no change” (IHO CL 20/2019 refers). https://www.iho.int/iho_pubs/CB/C-55/c55.pdf			
	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 Member States with the relevant NAVAREA Coordinator (7b). Delegates to update their contact information in the NAVAREA IV list (now found on the new MACHC initiative website/MSI page).	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 GCR. (see also action 17.5.2.1).	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	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	Members	As data becomes available.	Continuous.

No	Subject mater	Action	Responsible party	Due date	Status
21.2.1.1.10		how to contribute data is found in <u>English</u> and <u>Spanish</u> on the MACHC Initiative website.			