

25th Conference of the Meso American - Caribbean Sea Hydrographic Commission

Report by

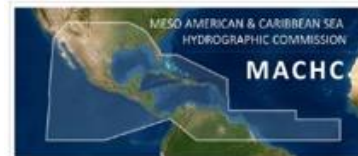
MACHC MSDI WG Chair / MSDI Ambassador

Andy Dippolito (US)



IHO

International
Hydrographic
Organization



MACHC MSDI

Objective:

The MACHC seeks to promote the development of MSDI within the region in support of numerous non-navigation users of marine (hydrographic / charting) data. The MACHC MSDI effort will be based on the four pillars of MSDI, which create the necessary framework. These pillars are Policy & Governance (People), Technical Standards (Standards), Information Systems (ICT), and Geographic Content (Data). Making marine (hydrographic / charting) information available in the MACHC region will improve decision making in several areas which include marine spatial planning (MSP), coastal zone management (CZM), and disaster risk management (DRM).

Terms of Reference MMSDIWG



IHO

International
Hydrographic
Organization



MMSDIWG Activity

- **Conducted 3 WG Meeting throughout the year**
- **Updated MMSDIWG Website and used it as a method for sharing meeting materials and useful links. (minor updates)**
- **MSDI Surveys - Existing MSDI web-based resources inventory and new Additional Layers MSDI web-based resources inventory. (less than 10% response)**
- **MMSDIWG Workplan was recommended to Archive and follow IHO MSDI WG Workplan**



IHO

International
Hydrographic
Organization



MMSDIWG Initiatives Webstie

Español

Key Documents

[MACHC22-MMSDIWG Plenary Report](#)

[Bathymetric Data Protocols](#)

[MMSDIWG Governance Document \(V1.0\)](#)

[MMSDIWG Members and Participants](#)

[MMSDIWG Terms of Reference](#)

[MMSDIWG Work Plan](#)

[IHO-MSDI Work Plan](#)

[CARIGEO-ToR](#)

[HOME](#) » [MMSDIWG](#)

MACHC Marine Spatial Data Infrastructure Working Group (MMSDIWG)

Chair: Andy Dippolito (US/NGA)
Vice-Chair: Vacant

MMSDI Working Group Documents

The MACHC seeks to promote the development of MSDI within the region in support of numerous non-navigation users of marine (hydrographic / charting) data. The MACHC MSDI effort will be based on the four pillars of MSDI which create the framework necessary. These pillars include Policy & Governance (People), Technical Standards (Standards), Information Systems (ICT), and Geographic Content (Data). Making marine (hydrographic / charting) information available in the MACHC region will improve decision making in several areas to include marine planning, coastal zone management, and emergency response. One of the main activities of the MMSDIWG has been the development of an inventory survey.

[MACHC MMSDIWG Inventory Survey](#)

[MACHC MMSDIWG Inventory - Additional Layers](#)

[Click Here to See: MACHC MMSDIWG Inventory Survey Results](#)

[Click Here to See: MACHC MMSDIWG Inventory - Additional Layers Results](#)

[Click Here to See: Detailed Data Audit/Discoverability by Country](#)

Country	Bathymetry	Shoreline	Maritime Limits and Boundaries	Other
Brazil	-IHO DCDB Viewer			
Colombia				-Maritime, River and Coastal Spatial Data Infrastructure

MMSDIWG Members:

[Brazil](#)
[Colombia](#)
[France](#)
[Mexico](#)
[Netherlands](#)
[United Kingdom](#)
[United States](#)

Links:

[Caribbean GeoPortal](#)
[CaMPAM](#)
[Caribbean Challenge In.](#)
[Caribbean Marine Atlas](#)
[GEOSUR](#)
[Inspire](#)
[IHO GIS](#)
[Living Atlas](#)
[MSDI Video](#)
[SDI Portals](#)
[UN GGIM](#)



IHO

International Hydrographic Organization



Attendance

3 meetings held (March 13th and September 11th via Teams and Dec 3rd In person)

Virtual

March 13th -15 Attendees:

Topics:

- Health Solutions Research
- Caribbean Ocean HUB Node / CMA

Sept 11th -16 Attendees:

Topics:

- IHO MSDI WG Chair
- SINOMAT (Costa Rica)

In Person

December 3rd -55 Attendees:

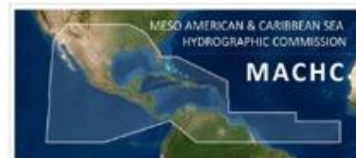
Topics:

- Digital Twin
- Myth Busting
- MMSDIWG Work Plan and Future

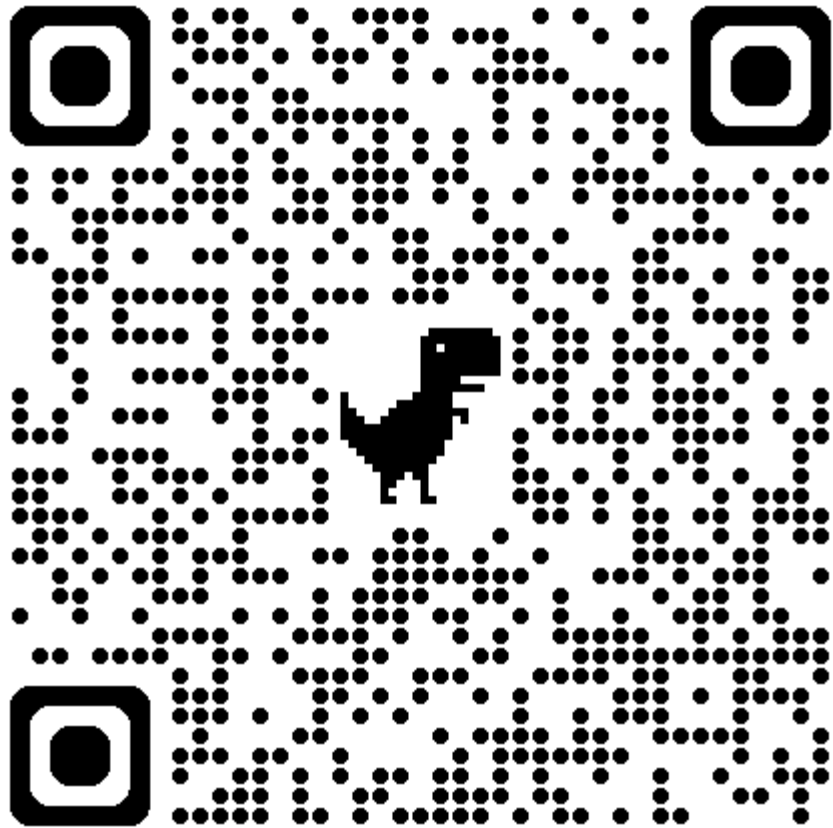


IHO

International
Hydrographic
Organization



MSDI Inventories



Updated MSDI Form- to include date submitted and POC for that country.

This information will be shared with IHO MSDI WG to update the list both on the MACHC MSDI Initiative page and the IHO MSDI Basic WG Documents



IHO

International
Hydrographic
Organization



MMSDIWG Workplan

Work Item	Work Activity	Milestones	Start Date	End Date	Status P:Planned O:Ongoing C:Completed S:Suspended	Comments	IHO MSDI WG Workplan
5	MMSDIWG to identify potential projects to support within the MACHC Region.	* Identify potential projects in the MACHC Region; * Develop a list of possible projects; * Engage with project teams; Determine ways the MMSDIWG could support the project to grow MSDI within the Region	19-Oct		O	12/11/2023 Currently supporting projects below 5b, 5c, 5d, 5e	C.1
6	MMSDIWG to explore potential partnerships within the MACHC Region.	* Identify existing SDI / MSDI efforts within the Region; * Develop a list of possible partners; * Engage with possible partners; * Determine best way to partner to support MSDI in the Region	19-Dec		O	12/11/2023 Currently pursuing partnerships with below 6a, 6b, 6c, 6d	F.1
10	Promote MSDI Discoverability within the MACHC Region	* Identify MSDI resources within the Region; * Build list of MSDI resources; * Make list of MSDI resources available via MACHC MMSDIWG webpage; * Share list of MSDI resources with other MSDI venues	19-Oct		O	MSDI Resources have been listed and linked on the MMSDIWG Site to aid data discoverability. Member States are asked to provide updates as MSDI websites / webservices are changed.	E.1
11	Promote MSDI efforts within the MACHC Region	* Identify ways to socialize MSDI efforts within the MACHC Region;	20-Oct		O	Presented to MICC Oct 2020. MSDI Seminar in Brazil in 2022. Possible Article in 2024 to promote efforts?	A.1, C.3, E.1
12	Conduct Quarterly MMSDIWG Meetings each year	* Plan three Quarterly MMSDIWG Meetings via telecon / webmeeting connections; * Plan one Quarterly Meeting at the MACHC Meeting in person; * Determine if more MMSDIWG Meetings are necessary to accomplish the objectives and work plan	19-Apr		O	MMSDIWG Meeting information to include the Agenda and Minutes are available on the MACHC Initiatives website. MMSDIWG Meetings held - 15 APR 2019, 17 JUL 2019, 02 OCT 2019, 26 June 2020, 28 Aug 2020, 28 Oct 2020, 17 MAR 2021, 16 JUN 2021, 22 SEP 2021, 03 NOV 2021, 09 MAR 2022, 13 JUL 2022, 26 OCT 2022	F.2
14	MMSDIWG to reach out to other RHC MSDI WGs (i.e. SWPHC, etc.) to share best practices, and knowledge.	* Determine what RHCs have MSDI efforts; * Reach out to other RHC MSDI WGs; * Share best practices, and knowledge;	20-Dec	22-Jul	C	Future Direction from MACHC21 in DEC 2020. 2021 - Coordinating with other RHC MSDI WGs to participate in 03 NOV 2021 MMSDIWG Meeting. Both SAIHC and SWHPC participated in the 03 NOV 2021 MMSDIWG Meeting. Each provided a presentation about their respective MSDI activities. There was also a dialogue about what they could learn about MSDI from the MMSDIWG. ARHC presented at the MAR 2022 MMSDIWG Meeting. MMSDIWG to participate in IHO MSDI WG Meetings.	B.1, F.2



IHO

International Hydrographic Organization



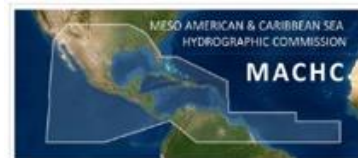
MMSDIWG Workplan

Work Item	Work Activity	Milestones	Start Date	End Date	Status P:Planned O:Ongoing C:Completed S:Suspended	Comments	IHO MSDI WG Workplan
15	MMSDIWG to consider data principles and standards for the MACHC MSDI efforts. Review the UN GGIM data principles as a starting point for the MMSDIWG.	* Review existing SDI data principles and standards; * UN-GGIM data principles can be used as a starting point; * Create MMSDIWG data principles and standards	20-Dec		O	Future Direction from MACHC21 in DEC 2020.	D.1
16	Promote the discussion of any item with relevance to SDI/MSDI/MSP and to take appropriate actions.	* Work to promote the discussion of SDI/MSDI/MSP within the MACHC Region.	20-Dec		O	IRCC direction to the MACHC (Action 21.2.1.1.6).	F.2
18	Coordinate a workshop with UN GGIM to explore UN GGIM principles.	* Engage with UN-GGIM, * Determine workshop requirements, * Socialize workshop to MACHC, * Complete workshop	22-Jul		P	Alberto Costa Nevis suggested having a workshop with UN-GGIM at the JUL 2022 MMSDIWG Meeting. I will reach out to UN-GGIM about workshop.	F.3
19	MMSDIWG Representative to participate in the IHO MSDI Meetings	* Identify MMSDIWG Representative, * Determine next meeting	22-Jul		P	Suggested at the JUL 2023 MMSDIWG Meeting based on IRCC Recommendation. (IRCC15 Recommendation 11) MMSDIWG Leadership to attend the IHO MSDI Meeting in MAR 2024; Coordinate who will cover each day 04-08 MAR 2024.	F.3
20	Write Policy & Governance template document for MS to use in developing an MSDI Policy.	* Create writing team, * Consult C-17 for reference, * Develop template document, * Review template document, * Make template document available on MACHC Initiatives website	22-Nov		P	Talk about at meeting to see if there is a volunteer.	E.1
21	RHC to discuss how HO's can assume a geo-coordinating role to help ensure provision of data on a regional level.				P	(IRCC15 Recommendation 2) (Action 23.2.3.2)	



IHO

International Hydrographic Organization



MMSDIWG Leadership

- Chair / Ambassador – Andy Dippolito (US)
- Vice Chair – Position is vacant. Volunteers?
- Secretary - Amrika Maharaj (UWI) & Rachel Bobich (Silver Bank Project) – Will be continuing as MMSDIWG Secretaries.



IHO

International
Hydrographic
Organization



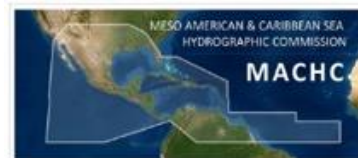
Request to MACHC MS and AS

- **Note the MMSDIWG report**
- **That all States agree to provide a response by March 2025, and annually thereafter prior to MACHC meeting in December (Submit by March 2025 and then again by December 2025 (after that will be due annually))**
- **Agree to Archive MMSDIWG Work Plan in favor of working towards IHO MSDI Work Plan 2024-2027**
- **MMSDIWG invites all States to participate in MMSDIWG Quarterly meetings. (Will be conducted via MS Teams, Dates TBD)**
- **Request to Submit nominations for Vice Chair / Co-Ambassador for MMSDIWG**



IHO

International
Hydrographic
Organization



Questions?



Benefits of MSDI



Leisure and Tourism

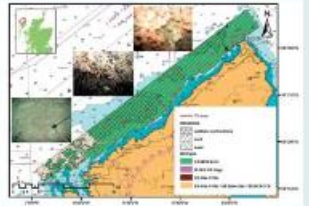


**Emergency Planning
and Response**



Fisheries Regulation

- Unlock the economic and environmental power of marine geospatial data
- Provide reusable data to a broader audience for diverse uses
- Break out of a single tightly defined customer group
- Improve marine geospatial data quality and working practices



**Coastal Zone
Management**



**Maritime Boundaries
Marine Protected Areas**



**Dredging planning
and beneficial reuse**



**Marine
Spatial Planning**



**Site
Selection**