



MESO AMERICAN - CARIBBEAN SEA HYDROGRAPHIC COMMISSION
2022 MACHC SEMINAR ON RAISING AWARENESS IN HYDROGRAPHY
CBC/MICC/MMSDIWG/Seabed 2030 PoC PRE-PLenary CONFERENCE MEETINGS
23rd CONFERENCE OF THE MESO AMERICAN - CARIBBEAN SEA HYDROGRAPHIC COMMISSION
(MACHC23)

Saint Louis, Missouri, United States of America
Hybrid
November 28 - December 2, 2022

AGENDA





TIME (UTC/GMT -6h) (CST)	PRE-MACHC CONFERENCE ACTIVITIES Monday, 28 November 2022 Business Casual and Daily Working Uniform	RESPONSIBLE
08:00-09:00	Early Log In: Testing of Audio/Visual Equipment Reminders on use of Virtual Conference Platform	All Participants/ Organization
08:30-09:00	Registration	All
09:00-17:00	MACHC SEMINAR ON RAISING AWARENESS IN HYDROGRAPHY	CBC Coordinator
09:00-09:15	Opening Objectives of the Seminar	CBC Coordinator
09:15-10:15	International Organisations and Hydrographic Governance	IMO / IHO / IALA
10:15-10:45	Group Photograph / Coffee Break	All
10:45-11:15	Introduction to MSDI Workshop	CBC Coordinator / MMSDIWG Chair
11:15-12:30	Marine SDI: Data, Innovation, Standards	Teledyne Geospatial
12:30-14:00	Lunch	All
14:00-14:10	Review	MMSDIWG Chair
14:10-15:30	MSDI: The Use of Data Beyond SOLAS	IIC Technologies
15:30-16:00	Coffee Break	All
16:00-16:30	MSDI Demonstration / Exercise	IIC Technologies
16:30-16:50	MSDI Case Study	Colombia
16:50-17:00	Close of the Seminar	CBC Coordinator



TIME (UTC/GMT -6h) (CST)	PRE-MACHC CONFERENCE ACTIVITIES Tuesday, 29 November 2022 Business Casual and Daily Working Uniform	RESPONSIBLE
08:00-08:30	Early Log In: Testing of Audio/Visual Equipment Reminders on use of Virtual Conference Platform	All Participants/ Organization
08:30-12:00	PRE-PLENARY CONFERENCE WG MEETINGS <i>(working level meetings to review annual progress and prepare summary reports with any resulting recommendations or issues for MACHC Plenary consideration)</i>	Chairs and Members
08:30-09:15	MACHC Marine Spatial Data Infrastructure Working Group (MMSDIWG) Meeting - Agenda by MMSDIWG Chair	MMSDIWG Chair
09:15-10:00	MACHC International Coordinating Charting Working Group (MICC) Meeting - Agenda by MICC Chair	MICC Chair
10:00-10:30	Coffee Break	All
10:30-11:15	MACHC Capacity Building Committee (CBC) Meeting - Agenda by CBC Coordinator	CBC Coordinator
11:15-12:00	MACHC Seabed 2030 Points of Contact Meeting - Agenda by MACHC Seabed 2030/CSB Coordinator	MACHC Seabed 2030/CSB Coordinator
12:00-13:30	Lunch	All



TIME (UTC/GMT -6h) (CST)	DAY ONE OF MACHC23 Tuesday, 29 November 2022	RESPONSIBLE
12:30-13:30	Early Log In: Testing of Audio/Visual Equipment Reminders on use of Virtual Conference Platform	All Participants/ Organization
13:30-14:00	FORMAL OPENING OF THE MACHC23 Opening Addresses Business Attire and Formal Uniform	Hosts, IHO Director, Chair
14:00-15:00	<p><u>1. MACHC Administration/organizational issues</u></p> <p>1.1 Introductions - Participants will be invited to introduce themselves. 10 minutes</p> <p>1.2 Approval of Agenda Doc: MACHC23-01.2 Agenda - Chair invites participants to comment on the agenda and timetable in case updates are necessary. - Agenda is adopted. 10 minutes</p> <p>1.3 List of documents/Administrative Arrangements Docs: MACHC23-01.3A List of Documents MACHC23-01.3B List of Participants - List of Documents as on the IHO MACHC23 site. - List of Documents is updated as necessary. - Logistic guidance and information as necessary. 5 minutes</p> <p>1.4. Matters arising from Minutes of MACHC22 Conference Doc: MACHC23-01.4 Minutes of MACHC22 5 minutes</p> <p>1.5. Review of the Action List from MACHC22 Doc: MACHC23-01.5 Action List from MACHC22 20 minutes</p> <p>Official Photograph Session 10 minutes</p>	<p>Chair/All</p> <p>Chair/All</p> <p>Chair</p> <p>Host/Secretariat</p> <p>Chair/All</p> <p>Chair/All</p> <p>All</p>
15:00-15:30	Coffee Break	All
15:30-16:00	<p><u>4. Reports from Observing States and Contributing Organizations</u></p> <p>4.1 The Importance of the Mississippi River Doc: MACHC23-04.1 Importance of Mississippi River</p>	Deputy Division Commander,



		Mississippi Valley Division, U.S. Army Corps of Engineers
16:00-17:00	<p><u>2. MACHC Developments, IHO bodies, Policy aspects</u></p> <p>2.1 IHO Secretariat Report Doc: MACHC23-02.1 IHO Secretariat Report - IHO Secretariat provides a briefing on current IHO matters. 15 minutes</p> <p>2.2 IHO Council update Doc: MACHC23-02.2 IHO Council update 10 minutes</p> <p>2.2.1 Overview of election process for MACHC representatives to the IHO Council Doc: MACHC23-02.2.1 5 minutes</p> <p>2.3 IRCC update Doc: MACHC23-02.3 IRCC update 10 minutes</p> <p>2.4 Maritime Safety Information/WWNWS Report Doc: MACHC23-02.4 WWNWS Report 10 minutes</p> <p style="text-align: center;">General remark</p> <p>Chair invites the representatives of the above IHO bodies to present the key (policy) developments, decisions, actions or implications that affect the MACHC region.</p> <p>5.2 Report on MSI Workshop (if time available) Doc: MACHC23-05.2 MSI Workshop Report 10 minutes</p>	<p>IHO Director</p> <p>Brazil</p> <p>Chair</p> <p>Brazil</p> <p>WWNWS-SC Chair</p> <p>Colombia</p>
17:00-19:00	<p style="text-align: center;">Ice Breaker T-REX Building 5th Floor Business Casual</p>	<p style="text-align: center;">Sponsored by Industry Partners</p>



TIME (UTC/GMT -6h) (CST)	DAY TWO OF MACHC23 Wednesday, 30 November 2022 Business Casual and Daily Working Uniform	RESPONSIBLE
08:00-09:00	Early Log In: Testing of Audio/Visual Equipment Reminders on use of Virtual Conference Platform	All Participants/ Organization
09:00-09:15	<p>3. National Reports Instructions and guidelines for National Report breakout groups.</p> <p style="text-align: center;">General remark</p> <p>Members will be divided into two or three parallel groups of approximately 10-15 each with a Chair in order to:</p> <ol style="list-style-type: none"> 1) Provide an opportunity for greater discussion and engagement about the content of National Reports 2) Provide an opportunity for greater discussion and engagement about the adoption of the S-100 based products 3) Synthesize the discussion results into priority recommendations for the MACHC to be considered by the plenary <p>The presentations are not intended to replicate the content of the National Report but rather to present key matters. Countries are asked to use the <i>National Reports PPT Template</i> to summarize the following:</p> <ol style="list-style-type: none"> a. Top three achievements b. Top three challenges c. Top three plans that effect the region (charts, surveys, training, other) <p>Chair requests Members not to read verbally the written National Report itself.</p>	<p style="text-align: center;">Chair</p> <p style="text-align: center;">Members and Observers Breakout groups will each have a Chair to guide them through this process <i>(observers, industry and regional organization representatives are invited to participate in the breakout group of their choice)</i></p>
09:15-10:30	Breakout groups/National Report presentations	All
10:30-11:00	Coffee Break	All
11:00-12:00	Breakout groups/National Report presentations conclude	All
12:00-13:30	Lunch	All
13:30-14:30	<p>Activities on S-100 standard</p> <p>9.5A IC-ENC S-100 progress update Doc: MACHC23-09.5A 15 minutes</p> <p>9.5B IHO S-100 in Support of e-Navigation and Port-Shipping Operations Doc: MACHC23-09.5B 15 minutes</p> <p>9.5C Your roadmap to S-101 and S-57 production with CARIS Doc: MACHC23-09.5C 15 minutes</p>	<p style="text-align: center;">IC-ENC</p> <p style="text-align: center;">Esri</p> <p style="text-align: center;">Teledyne Geospatial</p>



	<p>9.5D SevenCs short update on S-100 tools Doc: MACHC23-09.5D 15 minutes</p>	SevenCs
14:30-15:30	Breakout groups individually engage to discuss about the adoption of the S-100 based products (Roadmap for the S-100 Implementation Decade, the transition from S-57 to S-101 and the Guidelines on the Implementation of the WEND-100 Principles, WEND-100 Matrix).	All
15:30-16:00	Coffee Break	All
16:00-17:00	Breakout groups individually engage: - to discuss about the about the implementation of the S-100 based products and services in the MACHC Region, and - to summarize and develop final consensus top recommendations for plenary consideration.	All
19:00-21:00	Riverboat Dinner Cruise Reception Business Casual	Sponsored by Industry Partners

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TIME (UTC/GMT -6h) (CST)	DAY THREE OF MACHC23 Thursday, 1 December 2022 Business Casual and Daily Working Uniform	RESPONSIBLE
08:00-09:00	Early Log In: Testing of Audio/Visual Equipment Reminders on use of Virtual Conference Platform	All Participants/ Organization
09:00-09:30	Breakout Group report the recommendations and other key messages from their group to plenary and engage in questions and answers.	Grupo A Chair / Group B Chair / Group C Chair / All
09:30-10:30	<p>4. Reports from Observing States and Contributing Organizations</p> <p>4.2 International Maritime Organization (IMO) Doc: MACHC23-04.2 IMO 15 minutes</p> <p>4.3 International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) – Updates on S-200 Doc: MACHC23-04.3 IALA - Update on S-200 15 minutes</p> <p>4.4 IOC Sub-Commission for the Caribbean and Adjacent Regions (IOCARIBE) Doc: MACHC23-04.4 IOCARIBE 15 minutes</p> <p>4.5 The Hydrographic Society of America (THSOA) Doc: MACHC23-04.5 THSOA 15 minutes</p>	<p>Regional Coordinator, Caribbean, IMO</p> <p>Technical Operations Manager, IALA</p> <p>Acting Head, IOCARIBE Secretariat</p> <p>THSOA Chair</p>
10:30-11:00	Coffee Break	All
11:00-12:00	<p>8. Marine Spatial Data Infrastructure</p> <p>8.1 MMSDIWG Report <i>Chair is requested to present a brief summary of annual accomplishments, result of the pre-Plenary meeting and highlight any recommendations/issues that need to be addressed or approved by the Plenary.</i> Doc: MACHC23-08.1 MMSDIWG Report 15 minutes</p> <p>8.2 Progress on DHN Marine Spatial Data Infrastructure (IDEM DHN) Doc: MACHC23-08.2 Progress on IDEM-DHN 10 minutes</p>	<p>MMSDIWG Chair</p> <p>Brazil</p>



	<p>8.3 Unlocking the Value of the Information Doc: MACHC23-08.3 Unlocking Value of Information 10 minutes</p> <p>8.4 Global Maritime Traffic Density Service (GMTDS) Doc: MACHC23-08.4 GMTDS 10 minutes</p> <p>Session summary and any implications for MMSDIWG Workplan</p>	<p>OGC Marine Domain Working Group Co-Chair</p> <p>NGA/United States</p> <p>Chair/MMSDIWG Chair</p>
12:00-12:15	<p><u>Industry activities</u></p> <p>6.3A Application and Benefits of Physics-based SDB within the MACHC Region Doc: MACHC23-06.3A 15 minutes</p>	EOMAP
12:15-13:30	Lunch	All
13:30-14:45	<p><u>9. Nautical Charts and Publications</u></p> <p>9.1 MICC Report Doc: MACHC23-09.1 MICC Report <i>Chair is requested to present a brief summary of annual accomplishments, result of the pre-Plenary meeting and highlight any recommendations/issues that need to be addressed or approved by the Plenary.</i> 15 minutes</p> <p>9.2 MACHC ENC Gridding Scheme Doc: MACHC23-09.2 MACHC ENC Gridding Scheme 15 minutes</p> <p>9.3 MACHC WEND-100 Matrix Doc: MACHC23-09.3 MACHC WEND-100 Matrix 15 minutes</p> <p>9.4 MACHC S-100 Coordinator Role Doc: MACHC23-09.4 MACHC S-100 Coordinator Role 15 minutes</p> <p>Questions & Answers</p> <p>Session summary and any implications for MICC Workplan</p>	<p>MICC Chair</p> <p>MICC Sub-WG</p> <p>MICC Chair</p> <p>MICC Chair</p> <p>All</p> <p>Chair/MICC Chair</p>



<p>14:45-15:00</p>	<p><u>Industry activities</u></p> <p>5.6A IIC Academy: Contributing to Hydrographic Certification - Bringing Training to your Doorstep Doc: MACHC23-05.6A 15 minutes</p>	<p>IIC Technologies</p>
<p>15:00-15:30</p>	<p><i>Coffee Break</i></p>	<p>All</p>
<p>15:30-16:30</p>	<p><u>5. Capacity Building</u></p> <p>5.1 CBC report <i>Coordinator is requested to present a brief summary of IHO CBSC Meeting, annual accomplishments, result of the pre-Plenary meeting and highlight any recommendations/issues that need to be addressed or approved by the Plenary.</i> Doc: MACHC23-05.1 CBC Report 15 minutes</p> <p>5.2 Report on MSI Workshop Doc: MACHC23-05.2 MSI Workshop Report 10 minutes</p> <p>5.3 The Challenges of Hydrography Doc: MACHC23-05.3 Challenges of Hydrography 15 minutes</p> <p>5.4 NGA Strategic Partnerships Doc: MACHC23-05.4 NGA Strategic Partnerships 10 minutes</p> <p>5.5 SEPRHC Main Activities (if time available) Doc: MACHC23-05.5 SEPRHC Main Activities 10 minutes</p> <p>Session summary and any implications for MACHC CB Plan</p>	<p>Capacity Building Coordinator</p> <p>Colombia</p> <p>Xylem</p> <p>NGA/United States</p> <p>Colombia</p> <p>Chair/CB Coordinator</p>
<p>16:30-17:00</p>	<p><u>Industry activities</u></p> <p>5.6B Building Satellite-Derived Bathymetry Capabilities in the MACHC Region through Collaborative Projects Doc: MACHC23-05.6B 15 minutes</p>	<p>TCarta</p>



	5.6C Going deep into the learning of hydrographic tools - Capacity Building and collaboration programs from Kongsberg Maritime Doc: MACHC23-05.6C 15 minutes	Kongsberg Maritime
	Final declaration of Full Members candidates for the MACHC seats on the IHO Council	Full Members

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TIME (UTC/GMT -6h) (CST)	DAY FOUR OF MACHC23 Friday, 2 December 2022 Business Casual and Daily Working Uniform	RESPONSIBLE
08:00-09:00	Early Log In: Testing of Audio/Visual Equipment Reminders on use of Virtual Conference Platform	All Participants/ Organization
09:00-09:30	<p>6. Survey and Risk</p> <p>6.1 MACHC Seabed 2030/CSB Report <i>Coordinator is requested to present a brief summary of annual accomplishments, result of the pre-Plenary meeting and highlight any recommendations/issues that need to be addressed or approved by the Plenary.</i> Doc: MACHC23-06.1 MACHC Seabed 2030/CSB Report 15 minutes</p> <p>6.2 Risk Assessment and Mitigation Measures of Maritime Navigation in the Caribbean Sea Doc: MACHC23-06.2 Risk Assessment Caribbean Sea</p> <p>Session summary and any implications for the Workplan for the MACHC Seabed 2030 Project Strategy</p>	<p>MACHC Seabed 2030/CSB Coordinator</p> <p>UWI</p> <p>Chair/MACHC Seabed 2030-CSB Coordinator</p>
09:30-10:00	<p>Industry activities</p> <p>6.3B What's new in HYPACK 2022 ? Doc: MACHC23-06.3B 15 minutes</p> <p>6.3C Norbit Multibeam Products Doc: MACHC23-06.3C 15 minutes</p> <p>6.3D Improving Current Measurements in Moored Buoys Doc: MACHC23-06.3D</p>	<p>Xylem</p> <p>NORBIT Subsea</p> <p>AXYS Technologies</p>
10:00-10:30	Coffee Break	All
10:30-12:00	<p>10. Closing activities</p> <p>10.1 Election of MACHC Representatives to IHO Council</p> <p>10.2 Election of Chair and Vice Chair</p> <p>10.3 Any other business - Chair invites participants to present any other business. - Preparations for IHO Assembly.</p>	<p>Chair/Full Members</p> <p>Chair/Full Members</p> <p>Chair/All</p>



	<p>10.4 Review actions and decisions - Chair reviews actions and decisions.</p> <p>10.5 Review results of Elections</p> <p>10.6 Next meeting Doc: MACHC23-10.6 Proposal Letter of Suriname to Host MACHC24 - Chair invites participants to offer to host the next MACHC Conference(s). - Short presentation by the candidates to host.</p> <p>10.7 Close of meeting</p>	<p>Chair/All</p> <p>Chair/Full Members</p> <p>Chair/All</p> <p>Hosts/ IHO Director/Chair</p>
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