



INTERNATIONAL HYDROGRAPHIC ORGANIZATION
MESO AMERICAN & CARIBBEAN HYDROGRAPHIC COMMISSION

21st MEETING OF THE MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION Virtual Conference

To participate in the MACHC 21 Conference, please follow one of the links below:

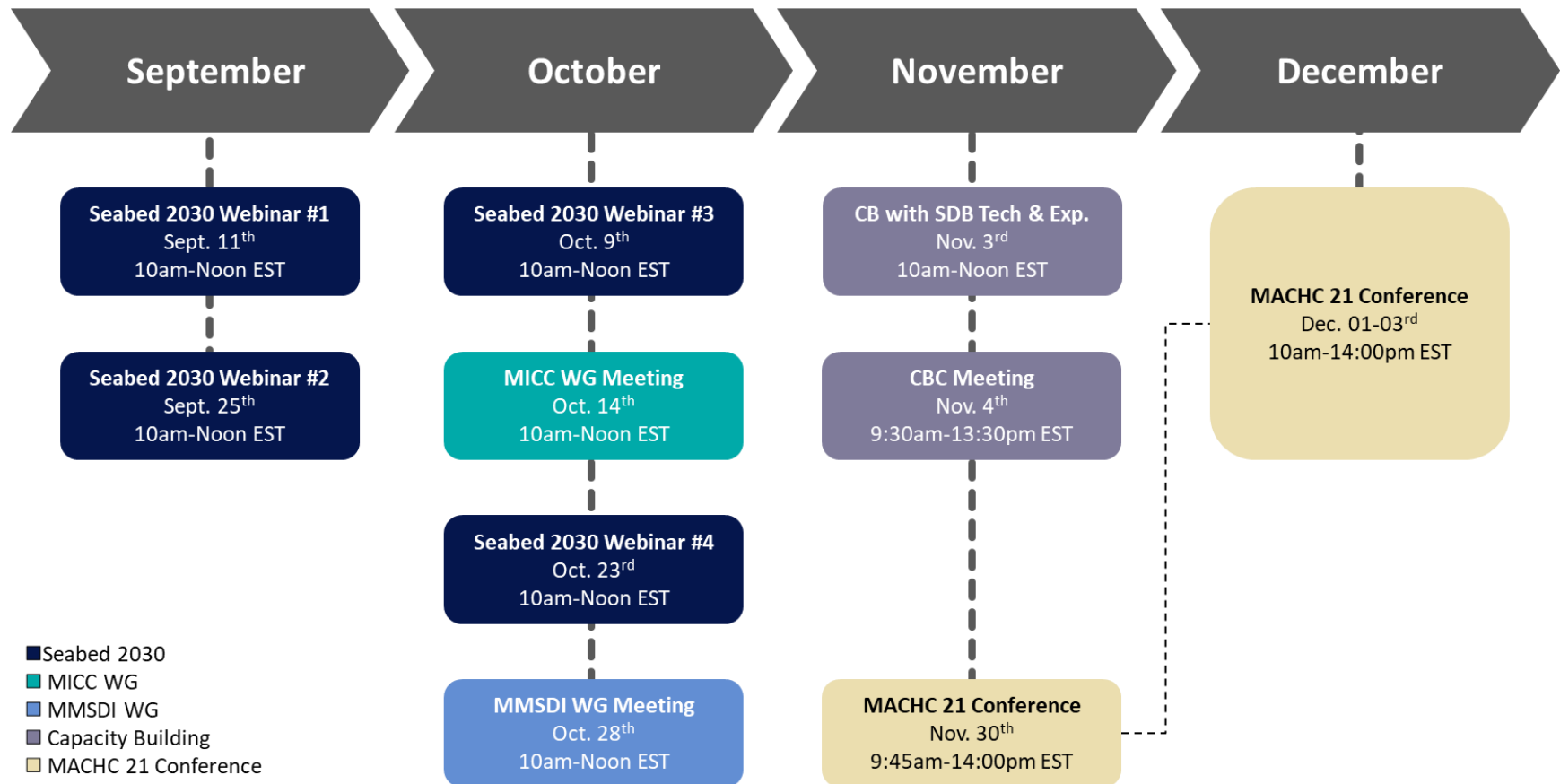
Speaker (on days that you are presenting): <https://broadcaster.interactio.io/join?code=CJB9KAL9M2L>

Participant (all other attendees): <https://broadcaster.interactio.io/join?code=RZB292AQAEP8>

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MACHC 21 PRE-CONFERENCE AND CONFERENCE MEETING SCHEDULE



MACHC 21 CONFERENCE TIMETABLE (EASTERN STANDARD TIME)

MACHC 21 Timetable - (Times are United States Eastern Standard)

Monday, November 30		Tuesday, December 01		Wednesday, December 02				Thursday, December 03		
Time	Activity	Time	Activity	Time	Breakout Group A: English & Spanish	Breakout Group B: English and Spanish	Breakout Group C: English Only	Time	Activity	
8:00 - 9:45	Early Log In: Testing of video and audio equipment	8:00 - 9:45	Early Log In: Testing of video and audio equipment						9:00 - 10:00	Early Log In: Testing of video and audio equipment
9:45 - 10:10	Formal Opening	9:45 - 10:00	Announcements/Logistics	9:00 - 10:00	Early Log In: Testing of video and audio equipment	Early Log In: Testing of video and audio equipment	Early Log In: Testing of video and audio equipment	10:00 - 10:15	Group Report Outs/Q&A	
10:10 - 10:30	MACHC Admin & Org Issues	10:00 - 11:00	Capacity Building Committee Report and Discussion	10:00 - 10:10	Introduction	Introduction	Introduction	10:15 - 11:15	Survey and Risk: Seabed 2030 and CSB	
10:30 - 11:30	IHO & MACHC Developments and Policies	11:00 - 11:30	Industry Support for Capacity Building Challenges	10:10 - 11:30	National Reports and Q&A #1-4	National Reports and Q&A #1-4	National Reports and Q&A #1-4	11:15 - 11:30	Industry Support for Survey and Risk	
11:30 - 12:30	Break	11:30 - 12:30	Break	11:30 - 12:30	Break	Break	Break	11:30 - 12:15	Break	
12:30 - 13:30	MICC WG Report, Presentation and Discussion	12:30 - 13:30	MMSDI WG Report/Presentation and Discussion	12:30 - 13:50	National Reports and Q&A #5-8	National Reports and Q&A #5-8	National Reports and Q&A #5-8	12:15 - 13:15	Disaster Response	
13:30 - 14:00	Industry Support for Charting Challenges	13:30 - 14:00	Industry Support for MSDI	13:50 - 14:00	Closing Discussion	Closing Discussion	Closing Discussion	13:15 - 14:00	Closing Activities	

MACHC 21 CONFERENCE AGENDA

DAY ONE OF MACHC 21
Monday, November 30th, 2020
FORMAL OPENING OF THE MACHC
(Times are United States Eastern Standard)

TIME	DAY ONE OF MACHC 21 Monday, November 30th, 2020	RESPONSIBLE
08:00-09:45	Early Log In: Testing of Audio/Visual Equipment	All Participants
9:45-10:10	OPENING ADDRESSES <i>(Business Attire and Navy Whites)</i>	U.S. Hosts (NOAA, Navy, NGA) IHO Secretariat, MACHC Chair
10:10-10:30	<p><u>1.0 MACHC Administration/organizational issues</u></p> <p>1.2 Approval of Agenda Doc: MACHC21-01.2 Agenda Rev2 - Chair invites participants to comment on the agenda and timetable in case updates are necessary. - Agenda is adopted. 5 minutes</p> <p>1.3 List of documents Docs: MACHC21-01.3A List of Documents MACHC21-01.3B List of Participants - List of Documents as on the IHO/MACHC-21 site - List of Documents is updated as necessary 5 minutes</p> <p>1.4. Matters arising from Minutes of MACHC 20 Meeting Doc: MACHC21-01.4 Minutes of MACHC 20 5 minutes</p> <p>1.5. MACHC 20 Action list review Doc: MACHC21-01.5 Action List from MACHC 20 5 minutes</p>	<p>Chair/All</p> <p>Chair/All</p> <p>Chair/All</p> <p>Chair/All</p> <p>Chair/All</p>

10:30-11:30	<p><u>2. MACHC Developments, IHO bodies, Policy aspects</u></p> <p>2.1 IHO Secretariat Report Doc: MACHC21-02.1 IHO Secretariat Report - IHO Secretariat provides a briefing on current IHO matters 15 minutes</p> <p>2.1.1 IRCC Actions for the MACHC Doc: MACHC21-02.1.1 10 minutes</p> <p>2.1.2 HSSC update Doc: MACHC21-02.1.2 10 minutes</p> <p>2.2 Maritime Safety Information/WWNWS Report Doc: MACHC21-02.2 WWNWS Report 10 minutes</p> <p>Q&A 15 minutes</p> <p style="text-align: center;">General Remark</p> <p>Chair invites the representatives of the above IHO bodies/working groups to present the key (policy) developments, decisions, actions or implications that affect the MACHC region.</p>	<p>Chair</p> <p>IHO Director</p> <p>MACHC Chair</p> <p>Brazil</p> <p>Chair, WWNWS</p> <p>All</p>
11:30-12:30	Break	
12:30-13:30	<p><u>9.0 Nautical Charts and Publications</u></p> <p>9.1 MICC WG Report <i>Chair presents results and recommendations to Plenary.</i> Doc: MACHC21-09.1 15 minutes</p> <p>9.2 Proposal for Regional ENC Scheme Doc: MACHC21-09.2 15 minutes</p> <p>9.3 S-57 to S-101 Conversion Doc: MACHC21-09.3 15 minutes</p> <p>Q & A 15 minutes</p>	<p>MICC Chair</p> <p>Mexico</p> <p>France</p> <p>All</p>

13:30-14:00	<p>9.4 Industry Support for Charting Challenges</p> <p>9.4.a S-101/S-57/Chart Production Solutions <i>(Desktop approach, database implementation and automated workflow)</i> Doc: MACHC09.4.a 15 minutes</p>	<p>Industry Partners</p> <p>Teledyne CARIS</p>
TIME	DAY TWO OF MACHC 21 Tuesday, December 1st, 2020 Casual Dress	RESPONSIBLE
08:00-09:45	Early Log In: Testing of Audio/Visual Equipment	All Participants
09:50-10:00	Reminders on use of Virtual Conference Platform	Host
10:00-11:00	<p>5.0 Capacity Building</p> <p>5.1 Capacity Building Report and Plan for 2021-23 <i>Chair presents results and recommendations to Plenary.</i> Doc: MACHC21-05.1 Doc: MACHC21-05.1.1 15 minutes</p> <p>5.2 Caribbean Regional Track of the IADB Pilot Programme for Climate Resilience Overview Doc: MACHC21-05.2 15 minutes</p> <p>5.3 Empowering Women in Hydrography Doc: MACHC21-05.3 15 minutes</p> <p>Q & A 15 minutes</p>	<p>Chair CBC</p> <p>IADB Representative</p> <p>United States</p> <p>All</p>
11:00-11:30	<p>5.4 Industry Support for Capacity Building Challenges:</p> <p>5.4.a On line offerings for IHO Publication S-8B (Cartography Training) and IHO S-5B (Hydrography Training programs) Doc: MACHC21-05.4.a 15 minutes</p>	<p>Industry Partners</p> <p>IIC Technologies Inc</p>

	<p>5.4.b The Hydrolevel Buoy system for accurate tide/water-level measurements anywhere in the ocean Doc: MACHC21-05.4.b 15 Minutes</p>	<p>Axys Technologies</p>
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11:30-12:30	Break	
12:30-13:30	<p>8.0 Marine Spatial Data Infrastructure</p> <p>8.1 MMSDI WG Report <i>Chair presents results and recommendations to Plenary.</i> Doc: MACHC21-08.1 Doc: MACHC21-08.1.1 15 minutes</p> <p>8.2 Risk Assessment and Mitigation Measures of Maritime Navigation in the Caribbean Sea Doc: MACHC21-08.2 15 minutes</p> <p>8.3 CARIGEO Portal Doc: MACHC21-08.3 15 Minutes</p> <p>Q & A 15 minutes</p>	<p>MMSDIWG Chair</p> <p>University of the West Indies</p> <p>CARIGEO Representative</p> <p>All</p>
13:30-14:00	<p>8.4 Industry Support for MSDI Challenges Presentations and panels TBD</p> <p>8.4.1 The Future of Marine Geospatial Data Access and Re-use Doc: MACHC21-08.4.1 15 minutes</p> <p>Instructions for Breakout Groups 15 minutes</p>	<p>Industry Partners</p> <p>Oceanwise</p> <p>Chair</p>

TIME	DAY THREE OF MACHC 21 Wednesday, 02 December 2020 Casual Dress			RESPONSIBLE
	Group A: English & Spanish Access Links Here	Group B: English and Spanish Access Links Here	Group C: English Only Access Links Here	
08:00-10:00	Pre-Testing of Audio/Visual	Pre-Testing of Audio/Visual	Pre-Testing of Audio/Visual	All
10:00-10:10	Introduction	Introduction	Introduction	Breakout Group Chairs
10:10-10:30	National Report and Q & A #1	National Report and Q & A #1	National Report and Q & A #1	All
10:30-10:50	National Report and Q & A #2	National Report and Q & A #2	National Report and Q & A #2	All
10:50-11:10	National Report and Q & A #3	National Report and Q & A #3	National Report and Q & A #3	All
11:10-11:30	National Report and Q & A #4	National Report and Q & A #4	National Report and Q & A #4	All
11:30-12:30	Break			
12:30-12:50	National Report and Q & A #5	National Report and Q & A #5	National Report and Q & A #5	All
12:50-13:10	National Report and Q & A #6	National Report and Q & A #6	National Report and Q & A #6	All
13:10-13:30	National Report and Q & A #7	National Report and Q & A #7	National Report and Q & A #7	All
13:30-13:50	National Report and Q & A #8	National Report and Q & A #8	National Report and Q & A #8	All
13:50-14:00	Breakout Group Discussion: Overall Points of synergy, collaboration, and implications for MACHC	Breakout Group Discussion: Overall Points of synergy, collaboration, and implications for MACHC	Breakout Group Discussion: Overall Points of synergy, collaboration, and implications for MACHC	All

TIME	DAY FOUR OF MACHC 21 Thursday 03, December 2020 Casual Dress	RESPONSIBLE
09:00-10:00	Early Log In: Testing of Audio/Visual Equipment	All Participants
10:00-10:15	<u>3.b Summary of Breakout Group Common Themes/Issues</u>	Chair
10:15-11:15	<p><u>6.0 Survey and Risk</u></p> <p>6.1 MACHC/IOCARIBE Seabed 2030 Planning Results and Recommendations, (including Crowd Sourced Bathymetry) (Coordinator presents results and recommendations to Plenary) Doc: MACHC21-06.1 Report Doc: MACHC21-06.1.1 SB2030 Strategy Doc: MACHC21-06.1.2 SB2030 Work Plan</p> <p>15 minutes</p> <p>6.2 IBBCA Doc: MACHC21-6.2 15 minutes</p> <p>6.3 Economic Assessment of Risks in Maritime Navigation across the Greater Caribbean Region update Doc: MACHC21-06.3 15 minutes</p> <p>Q&A 15 minutes</p>	<p>Seabed 2030 Coordinator</p> <p>Mexico</p> <p>University of the West Indies</p> <p>All</p>
11:15-11:30	<p>6.4 Industry Support for Survey and Risk</p> <p>6.4. a SSBES, MBES, SSS and ALB data analysis, tools (automation and workflow improvement) Doc: MACHC21-06.4.a 15 Minutes</p>	<p>Industry Partners</p> <p>QPS</p>
11:30-12:15	Break	

12:15-13:15	<p><u>7.0 Disaster Response</u></p> <p>7.1 Caribbean Disaster Emergency Management Agency Doc: MACHC21-07.1 15 minutes</p> <p>7.2 Oil Spill Response in Brazilian Waters: Lessons Learned Doc: MACHC21-07.2 15 minutes</p> <p>7.3 Conducting Hydrography During a Pandemic Lightening (speed) Talks (5 minutes each)</p> <p>7.3.a Emergency Survey Response to 2020 Hurricane Season Doc: MACHC21-07.3.a 5 minutes</p> <p>7.3.b Response to Hurricanes Eta and Iota Doc: MACHC21-07.3.b 5 Minutes</p> <p>Q & A 15 minutes</p>	<p>CDEMA Director</p> <p>Brazil</p> <p>US</p> <p>Colombia</p> <p>All</p>
13:15-14:00	<p>10.0 Closing Activities</p> <p>10.1 Confirmation of MACHC Chair and Election of Vice Chair 10 minutes</p> <p>10.2 Any Other Business 10 minutes</p> <p>10.3 Review of Actions and Decisions 15 minutes</p> <p>10.4 Next Meeting 5 minutes</p> <p>Meeting Adjourns</p>	<p>Chair</p> <p>Chair/Member States</p> <p>Chair/All</p> <p>Chair/All</p> <p>Chair/All</p>