



**INTERNATIONAL HYDROGRAPHIC ORGANIZATION
MESO AMERICAN & CARIBBEAN HYDROGRAPHIC COMMISSION**



**19th MEETING OF THE MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION
(MACHC 19)**

**Cartagena de Indias, Colombia
November 26- December 1, 2018**

AGENDA

Time	MACHC Seminar on Hydrographic Governance and dealing with Maritime Disasters (Arcos Room)	Responsible
09:00-17:30	<ul style="list-style-type: none"> Monday 26 November: Tuesday 27 November: 	IHO/UK
09:00-16:30		

Time	DAY ONE OF MACHC 19 Wednesday, 28 November 2018	Responsible
08:15-09:00	Registration 19th MACHC	
	PRE-PLenary COMMITTEE/WG MEETINGS- Fiesta Room <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
8:30-10:00	Integrated Charting Committee (MICC) meeting— Agenda by MICC Chair	Chair
10:00-10:30	Coffee Break	
10:30-12:00	Marine Economic Infrastructure Programme (MEIP) meeting—Agenda by MEIP Coordinator	Coordinator
12:00-13:00	Lunch	
13:00-15:00	Capacity Building Committee meeting Agenda by CBC Chair	Chair
15:00-15:30	Coffee Break	

15:30-16:00	FORMAL OPENING OF THE MACHC Opening Addresses <i>(ARCOS Room-Business Attire and Navy Whites)</i>	Chair, IHO Secretariat, Host
16:00-16:30	Official photograph session	All
16:30-17:30	1. MACHC Administration/organizational issues 1.1 Introductions <ul style="list-style-type: none"> Participants will be invited to introduce themselves <i>15 minutes</i> 	All/Chair

	<p>1.2 Approval of Agenda Doc: MACHC19-01.2 Agenda</p> <ul style="list-style-type: none"> • Chair invites participants to comment on the agenda and timetable in case updates are necessary. • Agenda is adopted. <p><i>15 minutes</i></p> <p>1.3 List of documents/Administrative Arrangements Docs: MACHC19-01.3A List of Documents MACHC19-01.3B List of Participants</p> <ul style="list-style-type: none"> • List of Documents as on the IHO/19thMACHC site • List of Documents is updated as necessary • Logistic guidance and information as necessary <p><i>15 minutes</i></p> <p>1.4. Matters arising from Minutes of MACHC18 Meeting Doc: MACHC19-01.4 Minutes of MACHC18</p> <p><i>10 minutes</i></p>	<p>Chair</p> <p>Chair</p> <p>Chair</p>
19:00	<p>Welcome dinner Naval Officers Club--"Salón Cabrestante" <i>(Business casual-no tie for men, no shorts or jeans)</i></p>	Colombian Navy

DAY TWO OF MACHC 19		
Time	Thursday, 29 November 2018	Responsible
	<p>Business Casual (Short sleeved navy whites/short sleeved guayabera/similar)</p>	
08:30-10:00	<p>1.5. MACHC 18 Action list review Doc: MACHC19-01.5A Action List from MACHC18</p> <p><i>20 minutes</i></p> <p>5.6 Update of Spain on its Regional Projects Doc: MACHC 19-05.6</p> <p><i>10 minutes</i></p> <p><u>2. MACHC Developments, IHO bodies, Policy aspects</u></p> <p>2.1 IHO Secretariat Report Doc: MACHC19-02.1 IHO Secretariat Report</p> <ul style="list-style-type: none"> • IHO Secretariat provides a briefing on current IHO matters <p><i>10 minutes</i></p> <p>2.2 Council Report. Doc: MACHC 19.02.2 Council Report</p> <p><i>10 minutes</i></p>	<p>Chair</p> <p>National Delegate</p> <p>IHO</p> <p>Council Chair</p>

	<p>2.3 IRCC10 Report Doc: MACHC19-02.3 IRCC10 Report</p> <p>2.3a Proposed changes to IHO Resolution 2/1997 Doc: MACHC19.-023aV2 of IHO Resolution 2/1997 <i>20 minutes</i></p> <p>2.4 HSSC10 Report Doc:MACHC19-02.4 HSSC10 Report <i>10 minutes</i></p> <p>2.5 MSI/WWNWS Doc: MACHC 19-02.5 WWNWS10 Report <i>10 minutes</i></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>U.S.</p> <p>U.S.</p> <p>U.S.</p> <p>Chair</p>
10:00-10:30	Coffee Break	Host
10:30-13:00	<p>4.1A Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/Caribe EWS) Doc: MACHC 19-04.1A <i>10 minutes</i></p> <p><u>3. National Reports from Members and Associate Members</u> <i>(See Report Outline Guidance: Doc: MACHC 19-3i and PPT Template for the National Reports—Doc: MACHC 19-3ii)</i></p> <p>The presentations are not intended to replicate the content of the National Report but rather to present key matters like:</p> <ul style="list-style-type: none"> - Main achievements during the year - Main challenges and/or obstructions - Progress on MSDI - Plans that affect the region <p>Chair requests Members and Associate Members not to read verbally the written national report itself.</p> <ul style="list-style-type: none"> • MACHC 19-03.A National Report Antigua and Barbuda • MACHC 19-03.B National Report Barbados • MACHC 19-03.C National Report Belize • MACHC 19-03.D National Report Brazil • MACHC 19-03.E National Report Colombia Special presentation from Colombia: “Methodological proposal to standardize regional schemes of electronic nautical cartography. Case study: Caribbean Sea” 	<p>Chair, Intergovernmental Coordination Group</p> <p>National Delegates</p>

	<p><i>Committee Chairs requested to present a brief (10-15 minutes) summary of annual accomplishments, result of the pre-Plenary Meeting and highlight any recommendations/issues that need to be addressed by the Plenary</i></p> <p>Doc: MACHC 19-05.1 CBC Report (CBC Chair) - CBC Chair introduces the CBC Report 10 minutes</p> <p>5.2 Update of FOCAHIMECA Doc: MACHC 19-05.2 10 minutes</p> <p>5.3 Update of UK on its Regional Projects Doc: MACHC 19-05.3 10 minutes</p> <p>5.4 Update of Brazil on its Regional Projects Doc: MACHC 19-05.4 10 minutes</p> <p>5.5 Update of France on its Regional Projects Doc: MACHC 19-05.5 10 minutes</p> <p>5.7 Fugro Academy and their IHO Cat B Hydrographic Course Doc: MACHC19-05.7 10 minutes</p> <p>5.8 Update of IOCARIBE on its Regional Projects Doc: MACHC19-05.8 10 minutes</p> <p>5.9 Latin America Chapter of the Hydrographic Society of America: For the Growth of Hydrography in the Region Doc: MACHC19-05.9 10 minutes</p> <p>5.10 Competency Standards for Hydrographers and Nautical Cartographers Doc: MACHC19-05.10 10 minutes</p> <p>5.11 Capacity Development e-learning Training in Hydrographic Governance Doc: MACHC19-05.111 10 minutes</p>	<p>National Delegate</p> <p>National Delegate</p> <p>National Delegate</p> <p>National Delegate</p> <p>Fugro</p> <p>Regional Secretary</p> <p>Chair</p> <p>IHO</p> <p>IMarEST</p>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Time	DAY THREE OF MACHC 19 Friday, 30 November 2018 Business Casual (Short sleeved navy whites/short sleeved guayabera/similar)	Responsible
08:30-10:00	<p><u>6. Survey and Risk</u></p> <p>6.1 Risk assessment regional project Doc: MACHC 19-06.1 <i>10 minutes</i></p> <p>6.2 Accident statistics and analysis of AIS data for the Caribbean Doc: MACHC 19-06.2 <i>10 minutes</i></p> <p>6.3 GEBCO/IBCCA Doc: MACHC 19-06.3 <i>10 minutes</i></p> <p>6.4 GEBCO/Seabed 2030 Doc: MACHC 19-06.4 <i>10 minutes</i></p> <p>6.5 Evolution of Hydroacoustic Hydrographic Surveys, from the vessel to the office. Doc: MACHC 19-06.5 <i>10 minutes</i></p> <p>6.6 The New Fugro RAMMS Bathymetric Multibeam Lidar System Doc: MACHC 19-06.6 <i>10 minutes</i></p> <p>6.7 Satellite Derived Bathymetry Work in the Caribbean: Applications for machine learning and process automation Doc: MACHC 19-06.7 <i>10 minutes</i></p> <p>6.8 Remote Environmental Monitoring Systems Doc: MACHC 19-06.8 <i>10 minutes</i></p>	<p>University of the West Indies</p> <p>University of the West Indies</p> <p>Mexico National Geographic Institute</p> <p>Head, Atlantic/Indian Oceans Regional Data Center</p> <p>Kongsberg</p> <p>Fugro</p> <p>TCarta</p> <p>AXYS</p>
10:00-10:30	Coffee Break	
10:30-12:00	<p><u>7. MACHC response to Disasters (IHO resolution 1/2005)</u> Doc: MACHC19.07.1 MACHC Response to Disasters</p>	IHO

	<p>Report from the Workshop on Dealing with Maritime Disasters <i>10 minutes</i></p> <p>7.1 Caribbean Disaster Emergency Management Agency Doc: MACHC19.07.1 <i>10 minutes</i></p> <p><u>8. SDI/Marine Spatial Data Infrastructure</u></p> <p>8.1 GGIM (Global Marine Geospatial Information Management) Doc: MACHC 19-08.1 Presentation of Marine Geospatial Data Management <i>10 minutes</i></p> <p>8.2. Tri-national Initiative for Marine Science and Conservation in the Gulf of Mexico and Western Caribbean Doc: MACHC 19-08.2 <i>10 minutes</i></p> <p>8.3 Caribbean Marine Atlas Doc: MACHC 19-08.3 <i>10 minutes</i></p> <p>8.4 Evolving into a Hydrospatial Agency Doc: MACHC 19-08.4 <i>10 minutes</i></p>	<p>Director</p> <p>Chair</p> <p>Regional Coordinator</p> <p>Regional Coordinator</p> <p>ESRI</p>
13:00-14:00	Lunch	
14:00-15:00	<p>8.5 Data Management Training Doc: MACHC 19-08.5 <i>10 minutes</i></p> <p>8.6 Hydrographic Data as a Service Doc: MACHC 19-08.6 <i>10 minutes</i></p> <p>8.7 MEIP Report Doc: MACHC19-08.7 MEIP Report (MEIP-WG)</p> <p><i>Committee/WG Chairs requested to present a brief (10-15 minutes) 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></p> <p><i>10 minutes</i></p>	<p>OceanWise</p> <p>Teledyne CARIS</p> <p>Coordinator</p>

