

## INTERNATIONAL HYDROGRAPHIC ORGANIZATION MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION



## 17<sup>th</sup> MEETING OF THE MESO AMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION (MACHC17) Belem, Brazil 13 – 17 December 2016 AGENDA AND TIMETABLE

Time	MACHC Seminar on Raising Awareness of Hydrography	Responsible
08:15-17:00		-
	- Monday 12 December: Hydrographic governance	CB Chair
	<ul> <li>Tuesday 13 December: Satellite Derived Bathymetry</li> </ul>	Mr Jeff Bryant
	Cocktail Ceremony hosted by the NAVAL LEAGUE	Host

Time	Tuesday (13 December) Smart Casual	Responsible
19:00-21:00	MACHC Ice breaker	Host

Time	DAY ONE OF MACHC17 Wednesday, 14 December 2016 Business Casual (Short sleeved navy whites/short sleeved wayabera/similar)		Respo	nsible
08:00-08:15	Registration	17 <sup>th</sup> MACHC		
08.15-08.40	Formal Opening of the MACHO Separate addresses	<b>;</b> .		GG IHO, ost
08:40-09:45	MACHC integrated Charting Co Agenda by MICC Chair	ommittee (MICC) meeting	MICC Mr. Johr	
09:45-10:30	Coffee	Break		
10:30-12:00	Marine Economic Infrastructur Agenda by MEIP Chair	e Program (MEIP) meeting.	MEIP Mr. Chris	
12:00-13:30	Lur	nch		
13:30-15:00	Risk assessment meeting Agenda by Chair RA-group	Capacity Building Committee Agenda by Chair CBC	Chair Mr. S Harper	Chair Mr. J Bryant
15:00-15:45	Coffee Break			
15:45-17:15	Risk assessment meeting (cor	ntinued)		air Harper
TBD	Cocktail at the Oceand	ographic Ship Antares	Но	ost

Version 2: 5 December 2016

Time	DAY TWO OF MACHC17 Thursday, 15 December 2016 Business Casual (Short sleeved navy whites/short sleeved wayabera/similar)	Responsible
08:15-09:45	1. MACHC Administration/organizational issues	
	<ul> <li>1.1 Introductions</li> <li>Participants will be invited to introduce themselves</li> <li>Establish the quorum necessary to hold a formal meeting</li> <li>15 minutes</li> </ul>	All/Chair
	<ul> <li>1.2 Approval of Agenda and Timetable</li> <li>Doc:-MACHC17-1.2 Agenda and Timetable</li> <li>Chair invites participants to comment on the agenda and timetable in case updates are necessary.</li> <li>Agenda is adopted.</li> <li>10 minutes</li> </ul>	Chair
	<ul> <li>1.3 List of documents/Administrative Arrangements</li> <li>Doc: -MACHC17-1.3 List of Participants (invited and present)</li> <li>List of Documents as on the IHO/17<sup>th</sup> MACHC site</li> <li>List of Documents is updated as necessary</li> <li>Logistic guidance and information as necessary</li> <li>10 minutes</li> </ul>	Chair
	1.4. Matters arising from Minutes of MACHC16 Meeting  Doc:-MACHC17-1.4. Minutes of MACHC16  - 10 minutes	Chair
	1.5. MACHC 16 Action list review  Doc:-MACHC17-1.5 Action List review_status at start of 17 <sup>th</sup> MACHC  - 20 minutes	Chair
	1.6 Selection for the IHO Council-Candidacy  Doc: 17-01.6 "MACHC Statutes".  - Annex 3 of the Statutes describes the selection process for the IHO council.  - Chair introduces voting procedures for seats allocated to the MACHC.  - 10 minutes	Chair
	1.7 Photo session - 15 minutes	All
09:45-10:30	Coffee Break	
10:30-12:00	2. MACHC Developments IHO bodies/Policy aspects	

	<ul> <li>2.1 IHO Secretariat Report  Doc:- MACHC17-2.1 IHO secretariat Report  - SG IHO provides a background brief on the composition and roles of the Council</li> <li>20 minutes</li> </ul>	IHO Secretariat
	2.2 IRCC8 Report  Doc:- MACHC17-2.2 IRCC8 Report  Include MACHC actions from IRCC 8  See general remark below  minutes	Chair
	2.3 HSSC8 Report  Doc:-MACHC17-2.3 HSSC7 Report.  - See General remark below, eg. for decisions  - 15 minutes	Brazil
	<ul> <li>2.4 MSI/WWNWS  Doc: MACHC 17-2.4 </li> <li>Includes the impact of e-navigation on the provision of MSI in the region and the use of the Joint Manual on MSI (IRRC8 action 6)</li> <li>See General remark below.</li> <li>15 minutes</li> </ul>	Mr. Pete Doherty
	<ul> <li>2.5 MACHC response to Disasters (IHO resolution 1/2005)</li> <li>Doc: MACHC 17-2.5 MACHC response to Disasters</li> <li>Context is IHO resolution 1/2005</li> <li>Case study passage of Hurricane Matthew</li> <li>Back brief NL surveys off Haiti</li> <li>Back brief NGA website</li> <li>Identify lessons and way forward</li> <li>20 minutes</li> </ul>	Chair Mr. Leendert Dorst Mr. James Roogers
	General remark 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.	
12:00-13:30	Lunch	
13:30-15:00	3. National Reports from Members and Associate Members Part I	National delegates
	<ul> <li>MACHC17-03.A National Report Antigua and Barbuda</li> <li>MACHC17-03.B National Report Barbados</li> <li>MACHC17-03.C National Report Belize</li> <li>MACHC17-03.D National Report Brazil</li> <li>MACHC17-03.E National Report Colombia</li> <li>MACHC17-03.F National Report Costa Rica</li> <li>MACHC17-03.G National Report Cuba</li> <li>MACHC17-03.H National Report Dominican Republic</li> </ul>	

## MACHC17-03.I National Report El Salvador MACHC17-03.J National Report France Chair invites France to provide a short back brief on developments in the IHO-EU network WG (IENWG) that affect the MACHC region in addition to their national report (5 min). MACHC17-03.K National Report Guatemala MACHC17-03.LNational Report Guyana MACHC17-03.M National Report Haiti MACHC17-03.N National Report Honduras MACHC17-03.O National Report Jamaica MACHC17-03.P National Report Mexico MACHC17-03.Q National Report Netherlands Members and Associate Members to present **only** the key points (maximum 5 minutes) as a powerpoint. Suggestions are: Main achievements during the year, Main challenges and/or obstructions, Update on C-55 statistics plus prognoses (including no change reports). Bathymetric data made available to GEBCO. Plans that affect the region, Specific requests for support, eg. CB support, Lessons learned to share. Chair requests Members and Associate Members not to read verbally the written national report itself. 15:00-15:45 **Coffee Break** 15:45-17:15 3. National Reports from Members and Associate Members Part II MACHC17-03.R National Report Nicaragua MACHC17-03.S1 National Report Panama-Panama Maritime Authority (PMA) MACHC17-03.S2 National Report Panama-Panama Channel Authority (PCA) MACHC17-03.T National Report Saint Kitts and Nevis MACHC17-03.U National Report Saint Lucia MACHC17-03. V National Report Saint Vincent and the Grenadines MACHC17-03.W National Report Suriname MACHC17-03.X National Report Trinidad and Tobago MACHC17-03.Y National Report United Kingdom Chair invites UK to provide an overview on the status and plans for surveys and charting in the autonomous UK overseas territories (5 min). MACHC17-03.Z National Report United States of America MACHC17-03.AA National Report Venezuela Members and Associate Members to present **only** the key points (maximum 5 minutes) as a powerpoint. See details above.

	Chair requests Members and Associate Members not to read verbally the written national report itself. See comment above.	
	4. Reports from observing States and Organisations	
	<ul> <li>4.1 Organisation of Eastern Caribbean States (OECS)</li> <li>Doc:-MACHC17-04.1 Organisation of Eastern Caribbean States (OECS)</li> <li>15 minutes</li> </ul>	Dr. David Robin
	<ul> <li>4.2 Observer countries</li> <li>Doc 17-04.2.A. National Report Granada</li> <li>Chair invites observer countries to present only the key points as described under agenda item 3 (maximum 5 minutes).</li> </ul>	TBC
	4.3 Selection for the IHO Council-Candidacy - First step is for eligible MS to opt as Candidate for selection	Member States
Time permitting	<ul> <li>4.4 RTCM on AIS-i</li> <li>Report on the latest work of the Radio Technical Commission for Maritime Services (RTCM) on Internet AIS services (AIS-i).</li> </ul>	Mr. Rafael Ponce
TBD	Navy's day ball  (Dress is wear coat and vertical tie or Navy blue uniform but the MACHC participants are allowed long sleeved nay whites)	None Hosted Invitations at R\$ 100,00 (~US\$ 30.00)

Time	DAY THREE OF MACHC17 Friday , 16 December 2016 Business Casual (Short sleeved navy whites/ short sleeved wayabera/similar)	Responsible
08:15-09:45	5. Survey and Risk	
	<ul> <li>5.1 Report Risk assessment meeting  Doc: MACHC 17-5.1  - Chair RA-group is invited to report back key findings of meeting of 14 December</li> <li>- 15 minutes</li> </ul>	Chair RA-group Mr. Sam Harper
	<ul> <li>5.2 Risk-based approaches</li> <li>Doc: MACHC 17-5.2A: "A risk-based approach taken by NOAA in order to determine their hydrographic survey priorities".</li> <li>15 minutes</li> </ul>	Ms. Kathryn Ries
	Doc: -MACHC 17-5.2B "Risk Assessment in Maritime Navigation for the Greater Caribbean Region (GCR).".	Ms. Dawn Seepersad

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	<ul> <li>An assessment of the work that has been undertaken by Land Information New Zealand (LINZ) across the islands of the South West Pacific Ocean with a view to reviewing the applicability and modifications necessary for risk assessment in the GCR.</li> <li>15 minutes</li> </ul>	
	<ul> <li>5.3 Satellite Derived Bathymetry (SDB).</li> <li>Doc: - MACHC16-5.3A. "The latest activities on SDB and data assimilation".</li> <li>Focus on how to use the SDB-date in the best way in combination with other data taking account of the uncertainties and thus the risks. Details:</li> <li>Substantial improvements on the uncertainties provision for SDB and on the assimilation of SDB with various</li> </ul>	Mr. Thomas Heege
	other measures lead to new strategies of SDB implementation.  • Relevant commercial and public funded projects  - 15 minutes	Mr. Don Ventura
	<ul> <li>Doc: - MACHC16-5.3B "Some common problems but maybe different solutions".</li> <li>The aim the second part of the presentation is to illustrate that having different but overlapping perspectives does not result in a such big gap between Government issues and Industry issues.</li> <li>15 minutes</li> </ul>	Zon vontara
	5.4 Papers Industry and/or Nations  Doc: - MACHC16-5.4."Leveraging Near Real-Time Data  Processing to Safely Increase Hydrographic Production".  - 15 minutes	Mr. Juan Carballini
09:45-10:30	Coffee Break	
10:30-12:00	6. DTM and SDI	
	<ul> <li>6.1 Marine Economic Infrastructure Programme Working Group (MEIP WG)</li> <li>Doc:- MACHC17-06.1 MEIP Report (MEIP-WG)</li> <li>MEIP chair is invited to report on MEIP developments and present the 'think piece' with potential options for the way ahead for the MEIP with the aim to facilitate decision making (MACHC action 16.6.1.1 refers).</li> <li>Back brief on the MACHC ENC online is part of the report.</li> <li>30 minutes</li> </ul>	MEIP Chair
	<ul> <li>6.2 Feedback MSDIWG</li> <li>Doc: MACHC 17-6.2: "Status report on MSDI".</li> <li>A report by the secretary of the MSDIWG on the developments across the HO community and a view to the future.</li> <li>15 minutes</li> </ul>	Mr. John Pepper
	6.3 UN-GGIM/Project for strengthening of Spatial Data Infrastructures (SDI) in the Caribbean	

	<ul> <li>Doc: - MACHC 17-6.3:</li> <li>Chair invites INEGI representatives to provide an update of this project within the context of UN-GGIM, also focussing on the relation with other projects.</li> <li>15 minutes</li> </ul>	Mr. Felix Ibarra
	<ul> <li>6.4 GEBCO/IBCCA</li> <li>Doc: - MACHC 17-6.4:</li> <li>Chair invites INEGI representatives to provide an update of IBCCA within the context of GEBCO, also focussing on the relation with other projects.</li> <li>10 minutes</li> </ul>	Mr. Felix Ibarra
	<ul> <li>6.5 IHO-IOC GEBCO Seabed 2030 Project</li> <li>Docs: - MACHC 17-6.5</li> <li>- A US proposal to invite the MACHC Member States to support the IHO-IOC GEBCO Seabed 2030 Project.</li> <li>- 5 minutes</li> </ul>	Mr. Jim Rogers
	6.6 Concluding discussions on MEIP way ahead - 15 minutes	Chair
12:00-13:30	Lunch	
13:30-15:00	<ul> <li>6.7 Papers Industry and/or Nations Doc: -MACHC 17-6.7A: "MSDI and where it fits within an HO".</li> <li>Complementary to the article recently published in Hydro international by SG Robert Ward and a summary of presentation to the Canadian Hydrographic Conference.</li> <li>15 minutes</li> </ul>	Mr. Derrick Peyton
	<ul> <li>Doc: -MACHC 17-6.7B: "Ways to support HO's, ports and harbours".</li> <li>Details:         <ul> <li>Software tools to deliver operational efficiencies in hydrographic surveying planning, dredging &amp; licensing, environmental monitoring and production of port ENCs.</li> <li>Real-time web based environmental data sharing and publishing as monitoring management of the data is now critical given the variable and less predictable climatic conditions.</li> </ul> </li> <li>20 minutes</li> </ul>	Mr. John Pepper
	7. Nautical Charts and publications	
	<ul> <li>7.1 MACHC Integrated Charting Committee (MICC)  Doc:- MACHC17-7.1 MICC Report  - MICC Chair is invited to report on MICC developments and challenges, and if required formulate proposals for consideration by members.</li> <li>- MICC Chair is invited to report on the implementation of the new review procedures of first edition INT Charts produced by new Producer Nations to IRCC (MACHC action 16.2.27 refers)</li> <li>- Back brief on the WEND WG is included in the report.</li> <li>- 15 minutes</li> </ul>	MICC Chair

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	<ul> <li>7.2 RENC Doc: MACHC 17-7.2</li> <li>Chair invites General Manager IC-ENC to give an update on RENC-wide development and on specific activities that affect the MACHC region such as the new regional offices and training activities.</li> <li>10 minutes</li> </ul>	Mr. James Harper
	<ul> <li>7.3 Papers Industry and/or Nations Doc: -MACHC 17-7.3A. Inland ENC's Focus on challenges and peculiarities of Brazilian inland ENC's. </li> <li>15 minutes</li> </ul>	Brazil
	<ul> <li>Doc: -MACHC 17-7.3B. "River Charts vs Coastal Charts Compilation".</li> <li>This presentation will cover the differences in river charts and regular coastal charts, the Inland ENC Harmonization Group, and the issues wrt to compilation and presentation.</li> <li>15 minutes</li> </ul>	Mr. Derrick Peyton
15:00-15:45	Coffee Break	
15:45-17:15	<ul> <li>7.3 Papers Industry and/or Nations (continued)</li> <li>Doc: -MACHC 17-7.3C. Chart on Demand</li> <li>A New Revenue Stream for Hydrographic Agencies.</li> <li>15 minutes</li> </ul>	Mr. Rafael Ponce
	8. Impact of International bodies on the MACHC region	
	8.1 International Maritime Organisation (IMO)  Doc: MACHC 17-8.1  - 15 minutes	Mr. Colin Young
	<ul> <li>8.2 International Association off Marine Aids to Navigation and Lighthouse Authorities (IALA) on E-navigation Doc: MACHC 17-8.2</li> <li>Following 16<sup>th</sup> MACHC, chair invites IALA representative to present further developments regarding E-navigation</li> <li>10 minutes</li> </ul>	Ms. Gerardine Delanoye
	9. Impact of Regional bodies in the MACHC region	
	<ul> <li>9.1 Caribbean Memorandum of Understanding (CMOU)  Doc: MACHC 17-9.1: "The CMOU and the synergies that exist between the CMOU and MACHC".</li> <li>Following 15th MACHC, chair invites the chair of CMOU to explore CMOU as an organization that besides dealing primarily with PSC matters also starts considering flag State matters that have linkages to PSC.</li> <li>20 minutes</li> </ul>	Ambassador Dwight Gardiner
	9.2. THSOA Doc: MACHC 17-9.2	Mr. Carlos Tejada

No Social event	
<ul> <li>9.3 Selection for the IHO Council-voting</li> <li>Member States vote on the candidate MS</li> <li>In order to warrant the integrity of the selection process, the MACHC secretary presents the voting forms to the observer of the secretariat of the IHO to the MACHC.</li> <li>10 minutes</li> </ul>	Member States
<ul> <li>New development of the Hydrographic Society of America (TSOA) in general and;</li> <li>Develops of the Latin American Chapter over the last year focusing on the MACHC region.</li> <li>15 minutes</li> </ul>	

Time	DAY FOUR OF MACHC17 Saturday, 17 December 2016 Business Casual (Short sleeved navy whites/ short sleeved wayabera/similar)	Responsible
08:15-09:45	<ul> <li>10. Regional Capacity Building (CB)</li> <li>10.1 MACHC Capacity Building Committee (CBC)  Doc:- MACHC17-10.1 CBC Report  - CBC chair/coordinator is invited to report on CB  developments and challenges, and if required formulate  proposals for consideration by members.</li> <li>10 minutes</li> </ul>	CBC Chair
	10.2 Feedback CBSB  Doc:- MACHC17-10.2 CBSC12 Report  - 10 minutes	CBC Chair
	<ul> <li>10.3 Project of FOCAHIMECA  Doc: MACHC 17-10.3</li> <li>Chair invites MEX to provide an update on this project which aims to reinforce the hydrographic capability in the region.  Request special attention to the relation with and impact on the MACHC.</li> <li>10 minutes</li> </ul>	Mexico
	<ul> <li>10.4 Report 3rd Mexican Hydrographic Conference</li></ul>	Mexico
	10.5 International Association off Marine Aids to Navigation and Lighthouse Authorities (IALA) on training programs  Doc: MACHC 17-10.5	Ms. Gerardine Delanoye

	<ul> <li>Following 16<sup>th</sup> MACHC, chair invites IALA representative to present further development regarding IALA training programs in particular the World Wide Academy.</li> <li>15 minutes</li> </ul>	
	10.6 Pan American Institute of Geography and History	Mr. Paul Cooper
	<ul> <li>(PAIGH)</li> <li>Following the 16<sup>th</sup> MACHC, chair invites PAIGH to share lessons learned and illustrate ways ahead to improve effectiveness of capacity building</li> <li>10 minutes.</li> </ul>	
	10.7 Papers Industry and/or Nation	Mr Sam Harpert
	Doc: MACHC 17-10.7A. "'UKHO MACHC Region International Development and Data Gathering".	
	<ul> <li>Presentation reflects the work UKHO has been doing in the MACHC region to support the development of Blue Economies, improve the quality of charting and support the development of hydrographic capability.</li> <li>15 minutes</li> </ul>	Mr. Derrick Peyton
	Doc: MACHC 17-10.7B. "An IHO IBSC recognized Hydrographic Certification Scheme".	. oyuu.
	<ul> <li>This presentation gives an overview of the recently IHO IBSC recognized hydrographic certification program in Canada. The Canadian Hydrographic Certification scheme follows allows for standards of competency and labour mobility on a global basis for HOs, Ports and other organizations requiring professional competencies amongst their contractors.</li> <li>10 minutes</li> </ul>	
09:45-10:30	Coffee Break	
10:30-12:00	11. Closing activities	Chair
	<ul> <li>11.1 Selection for the IHO Council-results</li> <li>MACHC secretary present results of election.</li> <li>The observer of the secretariat of the IHO to the MACHC, is requested to confirm the integrity of the selection process.</li> </ul>	MACHC secretary
	11.2 Election (vice) Chair MACHC	Chair
	11.3 AOB	Chair
	11.4 Review actions and decisions	Chair
	<ul> <li>11.5 Lessons identified</li> <li>Chair invites participants to provide (procedural) issues to be taken into account for future meetings</li> </ul>	Chair/all
	11.6 Next meeting  Docs:- MACHC17-11.6 Proposal Letter Cuba  - Short presentation by candidate Host Cuba	Chair/Cuba
	11.7 Close of meeting	