

MACHC 16-1.2

(version 6)

 **16th MEETING OF THE MESO AMERICAN AND CARIBBEAN**

**SEA HYDROGRAPHIC COMMISSION (MACHC16)**

**Antigua& Barbuda**

**08 – 12 December 2015**

**AGENDA AND TIMETABLE**

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| **Time**09:00-17:00 | **MACHC Seminar on Raising Awareness of HydrographyMonday (07 December) and Tuesday (08 December)**(Business Casual)Frangipani room | **Responsible** CB ChairMr Jeff Bryant |

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| **Time** | **OPENING DAY MACHC16Tuesday, 08 December 2015**Business Casual (Short sleeved navy whites/short sleeved wayabera/similar) xmt visit to the PMHammock Lounge | **Responsible**  |
| TBD | Courtesy call to Prime Minister Gaston Browne by President IHB, Chair, RADM Lowe and Resident Hydrographer | Host |
| 19:00-19:30 | **Welcome and Opening of the MACHC.** | Chair/Host/IHB |
| 19:30-21:00 | Ice Breaker | Host |

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| **Time** | **DAY ONE OF MACHC16Wednesday, 09 December 2015**Business Casual (Short sleeved navy whites/short sleeved wayabera/similar)Hibiscus room | **Responsible** |
| 08.00-08.15 | Registration 16th MACHC |  |
| 08:15-10:00 | **Combined MACHC Charting Committee (MICC) and MACHC Marine Economic Infrastructure Program (MEIP) meeting.****Part I: focus on MEIP.**Agenda by MEIP Chairs1. Meeting Commences
2. Welcome / Introductions
3. Record of attendees
4. Approval of Agenda
5. Review of MACHC15 MEIP decisions / direction / actions.
6. Progress made to date – including countries who have agreed to participate
7. Data protection and password protection
8. Layers that can be viewed 0n the on-line viewer
9. Live demonstration of Viewer
10. Review of the TOR – are they acceptable or do they need to be revised
11. Assistance of IC-ENC
12. Future direction
13. AOB
 | MEIP ChairChris Thorne MICC ChairMr. John Nyberg  |
| 10:00-10:30 | **Coffee Break** |  |
| 10:30-12:30 | **Combined MACHC Charting Committee (MICC) and MACHC Marine Economic Infrastructure Program (MEIP) meeting** **Part II: focus on MICC**Agenda by MEIP Chair1. Meeting Commences
2. Welcome/Introductions
3. Approval of the Agenda
4. MICC Organization/Administrative Topics
5. Updates in Membership
6. Approval of Minutes of 21 October MICC Conference Call
7. Administrative Actions
8. Risk Assessment Methodology Plans/Updates

-- Proposal for a separate Working Group under MACHC1. Ports Analysis Coverage Status

-- Country-by-Country listing-- Identify gaps in ENC Coverage1. INT Charts
2. Review of Actions
3. INT Chart Coordinator (IRCC Action)
4. Updates to Current Coverage
	1. INT Chart Scheme adjustments
	2. Overlaps (Ref Action 4.1)
	3. National Charts as substitutes for INT Charts
	4. S-11 Updates – Venezuelan INT Scheme
5. French INT Charts
6. Electronic Charts
7. Review of Actions
8. Updates/adjustments to Region B ENC scheme1
9. Updates/resolutions of overlaps in ENC coverage1
10. Updates to arrangements with RENCS1
11. WEND-RENC Survey
12. ENC On-Line
13. Consistency of data among ENCs and comparable INT Charts
14. MICC Report to 16th MACHC
15. Any Other Business
 | MICC ChairMr. John Nyberg MEIP ChairMr. Chris Thorne |
| 10:30-13:30 | **Tour and Lunch on board HNLMS Friesland (11:00-13:00)**Supporting event for Heads of Delegation and those delegates not required to attend working group meetingsHarbour St John’s | Chair |
| 12:30-13:30 | **Lunch** |  |
| 13:30-15:30 | **Risk assessment meeting**Agenda by chair (see also Annex)1. Introduction and Welcome
2. UKHO Risk Based Survey Prioritisation
3. Chart Adequacy Evaluation Methodology
4. Risk-based improvement of the survey policy for the Netherlands Continental Shelves in the North Sea and Caribbean Sea
5. Similarities and differences with the work by the Resurvey Working Group of the North Sea Hydrographic Commission
6. IALA Waterways Risk Assessment Tool
7. Plans for a Caribbean Risk Assessment project
8. Weight matrix tuning in risk assessment methods
9. Group discussion lead by Chair
10. What are the uses of risk based tools?
11. What are the minimum source data requirements?
12. How can these tools be used to support Capacity Building?
13. Is there a need to capture and provide ‘best practice’ guidance?
14. How should this work be progressed?
15. Summary and agree recommendations to plenary
 | Mr. Sam HarperChairSam Harper Anthony Klemm Leendert Dorst Leendert Dorst Stephen Bennet Keith Miller Nicolas Seube |
| 15:30-16:00 | **Coffee Break** |  |
| 16:00-17:30 | **Capacity Building Committee** Agenda by chair CBC1. Short presentation on the IHO’s capacity building strategy by MACHC CB Coordinator
2. Review of the MACHC CB since the last meeting by MACHC CB Coordinator
3. Update on regional projects which have a CB element:
* FOCAHIMECA by DIGAOHM
* OECS by UKHO
* IHO/MACHC support to Haiti by USA
1. Feedback from the Panama Canal Authority/Kongsberg/CARIS Multi Beam Collection and Processing in Spanish training course by PCA and CARIS
2. Feedback from the Phase 1 Skills Course for Spanish Speakers by DIGAOHM
3. Feedback from the 2-day Hydrographic Awareness Seminar and how such feedback can be incorporated into future MACHC Capacity Building planning
4. Strategy for the development of Hydrography in the MACHC region
	1. National Hydrographic Committee (NHC)
	2. Actions to follow up CB activities
	3. Mentoring of hydrographic trainees
5. Open discussion
 | CB ChairMr. Jeff Bryant |
| 19:00-21:00 | **National Holiday** |  |

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| **Time** | **DAY TWO OF MACHC16Thursday, 10 December 2015**Business Casual (Short sleeved navy whites/short sleeved wayabera/similar) Hibiscus room | **Responsible** |
| 08:00-09:50 | **1. MACHC Administration/organizational issues****1.1 Introductions*** Participants will be invited to introduce themselves

**1.2 Approval of Agenda and timetable*** Doc:-MACHC16-1.2 Agenda and Timetable
* Chair invites participants to comment on the agenda and timetable in case updates are necessary.
* Agenda is adopted.

**1.3 List of documents/Administrative Arrangements*** Doc:-MACHC16-1.3a List of Documents
* Doc: -MACHC16-1.3b List of Participants (invited and present)
* Documents are presented and updated as necessary
* logistic guidance and information as necessary

**1.4. Matters arising from Minutesof MACHC16 Meeting*** Doc:-MACHC16-1.4. Minutes of MACHC15
* Chair seeks approval of the MACHC15 Minutes

**1.5. MACHC 15 Action list review*** Docs:-MACHC16-1.5 Status of Action List from MACHC15 meeting. Action list is reordered and marked with a colour code.

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| legend |
| White: open item |
| Light grey: continuous action |
| Light Green: completed or closed |

* Chair intends following procedure.
* Open items (white) are to be reviewed and updated. Intend to close items that are unclear in their deliverables or actions that are overtaken by events. Also intend to close action items that are not within the remit or the Terms Of Reference of the MACHC.
* Continuous action (light grey) are mostly attributed to standing activities/responsibilities with the MACHC structure. Those items need not to reviewed any longer and can be removed as specific action items . The remainder can be moved to separate list for future reference as they do not have a specific deliverable in time.
* Completed or closed items do no longer need reviewing and can be removed from the action list. In future they can still be retraced as part of previous meeting minutes.

**1.6. MACHC Statutes*** Doc:-MACHC16-1.6 MACHC Statutes amendment.
* Chair invited members to consider and accept the proposal for the amended statutes

**1.7 Request from Dominican Republic for Associate Membership*** Docs-MACHC 16.-1.7 Letter Dominican Republic
* Chair invites members to accept the application for Associate Membership by the Dominican Republic
 | AllChairChairChairChair ChairChair |
| 09:50-10:00 | **Photo session** |  |
| 10:00-10:30 | **Coffee Break** |  |
| 10:30-12:30 | **2. MACHC Developments IHO bodies/Policy aspects** **2.1 IHB Report*** Doc:- MACHC16-2.1 IHB Report

**2.2 IRCC7 Report** * Doc:- MACHC16-2.2 IRCC7 Report
* See general remark below, eg. for MACHC actions from IRCC.

**2.2.1. Procedure for selecting the MACHC representatives to the IHO Council*** Doc: -MACHC 16-2.2.1
* Chair invites members to consider and approve the procedures by which the MACH representatives are selected for the future IHO council.

**2.3 HSSC7 Report*** Doc:-MACHC16-2.3 HSSC7 Report .
* See General remark below, eg. for decisions.

**2.4 WENDWG Report*** Doc:- MACHC16-2.4 WENDWG
* See General remark below, eg. for implications.

**2.5 MSI/WWNWS, RATC*** Docs: MACHC 16-2.5
* Following 15th MACHC, chair invites WWNWS representative to provide an update on NAVAREA list .
* See General remark below.

General remarkChair 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 (**maximum 15 minutes each**).**2.6 International Board on Standards of Competence (IBSC)*** Docs: MACHC 16-10.5
* On training courses in the region, followed by a short question/answer session **(30 minutes).**
 | IHBChairChairBrazilMICC ChairMr. Pete Doherty TBD |
| 12:30-13:30 | **Lunch** |  |
| 13:30-15:30 | **3. National Reports from Members and Associate Members*** *MACHC16-03.A National Report Antigua and Barbuda*
* *MACHC16-03.B National Report Barbados*
* *MACHC16-03.C National Report Belize*
* MACHC16-03.D National Report Brazil
* MACHC16-03.E National Report Colombia
* *MACHC16-03.F National Report Costa Rica*
* MACHC16-03.G National Report Cuba
* *MACHC16-03.H National Report Dominican Republic*
* *MACHC16-03.I National Report El Salvador*
* MACHC16-03.J National Report France
* MACHC16-03.K National Report Guatemala
* *MACHC16-03.LNational Report Guyana*
* *MACHC16-03.M National Report Haiti*
* *MACHC16-03.N National Report Honduras*
* MACHC16-03.O National Report Jamaica
* MACHC16-03.P National Report Mexico
* MACHC16-03.Q National Report Netherlands
* *MACHC16-03.R National Report Nicaragua*
* *MACHC16-03.S National Report Panama*
* *MACHC16-03.T National Report Saint Kitts and Nevis*
* *MACHC16-03.U National Report Saint Lucia*
* *MACHC16-03.V National Report Saint Vincent and the Grenadines*
* MACHC16-03.W National Report Suriname
* MACHC16-03.X National Report Trinidad and Tobago
* MACHC16-03.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.
	+ Potential overlap with the OECS report is to be addressed
* MACHC16-03.Z National Report United States of America
* MACHC16-03.AA National Report Venezuela

Chair invites Members and Associate Members report to summarize their reports and present **only** the key points(**maximum 5 minutes**). 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.

The written National reports itself is to cover all the topics described in IHO Resolution 2/1997 (see MACHC CL 07/ 2014) and must be submitted in accordance with the IRCC document “instructions of Reports and Proposals” (<https://www.iho.int/mtg_docs/com_wg/IRCC/MISC/Instructions_for_Submission_of_Reports_and_Proposals.pdf>). Item 4 specifically refers to RHC reports ( 3 weeks before the meeting).. | National delegates |
| 15:30-16:00 | **Coffee Break** |  |
| 16:00-17:30 | **4. Reports from observing States and Organisations** **4.1 Organisation of Eastern Caribbean States (OECS)** * Doc:-MACHC16-04.1 Organisation of Eastern Caribbean States (OECS)
* Following the 15th MACHC, Chair invites OECS representative to report key developments and plans that affect the MACHC region **(maximum 15 min)**.
* In line with MOU IHO-OECS (IHB CL 15/2015), chair invites member to accept OECS as **a permanent observer** of the MACHC- meeting

**4.2 . Panama Canal Authority*** Doc: MACHC16- 04.2 Panama Canal Authority
* Following the 15th MACHC, chair invites the PCA to report key developments and plans that affect the MACHC region **(maximum 10 min).**

**4.3 Observer countries*** Bermuda
* Grenada

Chair invites observer countries to present only the key points as described under agenda item 3 (**maximum 5 minutes each**). **4.4 Report neighbouring RHC*** Doc: MACHC16-04.4A SWAtHC Report
* Doc: MACHC16-04.4B USCHC Report

* SWAtHC and USCHC: A short presentation focusing on the experiences gained in their region that might benefit the MACHC, for instance main achievements and challenges and/or lessons learned to share **(max15 minutes each)**.

**Spare time to close open agenda items of day two ( aprox.30 minutes)** | Dr. Asha SinghMr. Jaime RodríquezTBCBRA for SWAtHCUS for USCHC |
| 19:00-21:00 | **Social Event TBD** |  |

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| **Time** | **DAY THREE OF MACHC16Friday , 11 December 2014**Business Casual (Short sleeved navy whites/short sleeved wayabera/similar) Hibiscus room | **Responsible** |
| 08:00-10:00 | **5. Survey and Risk** **5.1 Report Risk assessment meeting*** Docs: MACHC16-05.1 Risk Assessment
* Chair TG is invited to report back key findings of first meeting of 9 December (**20minutes**)

**5.2 UKHO Satellite Derived Bathymetry (SDB) testing update*** Docs: MACHC16-05.2 presentation on SDB
* Chair invites Mr .Sam Harper to provide an update OECS project using SDB in combination with MBES (**10 minutes**).

**5.3 Satellite Derived Bathymetry (SDB)*** A combined presentation by EOMAP and Frugro Pelagos **( 30 minutes)**
* Docs: - MACHC16-05.3A EOMAP on SDB
* Following 15th MACHC, chair invites EOMAP representative to expand on recent development in SDB**.**
* Items of interests are:
* Translation into/relation with S-44 standards
* Ground truthing and/or combined technique eg with Lidar
* Docs: - MACHC16-05.3B “Integrated services provision that combines the capabilities of satellite-derived information with an active sensor approach.”  The aim the second part of the presentation is to illustrate that an integrated approach to regional mapping and charting needs can be met most efficiently and cost-effectively by combining technologies rather than competing them.

**5.4 Geodetic reference frames*** Short open table discussion in order to make an inventory of outstanding issues

**5.5 Papers Industry and/or Nations*** Docs: -MACHC16-05.5A “The challenges and opportunities surveying the UK’s remote Overseas Territories”. These surveys were undertaken to meet multiple requirements and took into account bathymetry as well as backscatter data. **(15 min)**.
* Docs:-MACHC16-05.5B “Satellite Derived Bathymetry: A Canadian Case Study.” This presentation will describe the work done by IIC Technologies in collaboration with the Canadian Hydrographic Service and follows the processes and procedures laid by the University of New Hampshire CCOM and published in the GEBCO Cookbook” **(15 min)**.
* Docs:-MACHC16-05.5C “Improving the Convenience of Ancillary Sensors for Hydrographic Survey Operations” Whether your hydrographic application relates to navigation, defense, construction, or research, one common requirement if you are surveying with a multibeam system is the need for accurate sound velocity measurements.**(15 min).**
* Docs:-MACHC16-05.5D: Docs:-MACHC 16-5.5D: “Can Hydrographers rely on Satellite Derived Bathymetry”. Presentation focusses on latest developments with a view on the MACHC. **(15 min)**

**This time frame focusses on the ‘collection of (survey)-data’ end and the supporting methodologies (risk based) and technologies.** | Chair TGMr. Sam HarperMr. Thomas Heege Mr. Don Ventura ChairMr. Sam HarperMr. Derrick PeytonMr. Kevin WilsonMr. Laurent Kerléguer  |
| 10:00-10:30 | **Coffee Break** |  |
| 10:30-12:30 | **6. DTM and SDI****6.1 Marine Economic Infrastructure Programme Working Group (MEIP WG)*** Doc:- MACHC16-06.1 MEIP Report (MEIP-WG )
* MEIP chair is invited to report on MEIP developments and challenges, and formulate proposals for consideration by members. This includes the need to revisit the TOR **(30 Minutes)**

**6.2 Feedback MSDIWG*** Docs: MACHC 16-6.2
* **(10 minutes)**

**6.3 UN/UNGGIM (Americas)*** Docs: MACHC 16-6.3
* **(10 minutes)**

**6.4 Project for strengthening of Spatial Data Infrastructures (SDI) in the Caribbean /INEGI*** Docs: - MACHC 16-6.4
* Chair invites INEGI representatives to provide an update of this project, also focussing on the relation with other projects **(10 minutes)**

**6.5 UN/GEBCO*** Docs: MACHC 16-6.5
* IHO Data Center for Digital Bathymetry (DCDB) developments and context regional project (vice-versa)
* -Crowd Sourced Bathymetry WG
* **(20 minutes)**

**6.6 IBCCA*** No formal presentation. Short open table discussion on how the initiative fits in the wider picture, ie. other initiative in the MACHC region.
* **(10 minutes)**

**6.7 Papers Industry and/or Nations*** Docs: -MACHC 16-6.7: “Managing Hydrographic and Oceanographic Information for Maritime Spatial Data Infrastructure”. This presentation will describe real life MSDI projects from Canada, Saudi Arabia, and India.It will describe lessons learned and recommendations. **(15 min).**

**This time frame focusses on the ‘gathering an distribution of various datasets’ in order to combine them in to new or augmented data models (other use of data).** | MEIP ChairNetherlandsCapt Ricardo Lopez CruzCapt Ricardo Lopez CruzMs. Lisa TaylorNoneMr. Derrick Peyton |
| 12:30-13:30 | **Lunch** |  |
| 13:30-15:30 | **7. Nautical Charts and publications****7.1 MACHC Integrated Charting Committee (MICC)*** Doc:- MACHC16-7.1 MICC Report
* MICC Chair is invited to report on MICC developments and challenges, and formulate proposals for consideration by members
* MICC Chair is invited to provide an assessment of the revised management, review and monitoring methodology for new INT charts (IHB, CL 64/2015, dd 31-08-15).
* **(30 minutes)**

**7.2 RENC*** Docs: MACHC16-07.2A
* Docs: MACHC16-07.2B
* 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 new regional offices and training activities. **(15 minutes)**

**7.3 NOAA/WMS/ENC viewer*** Chair invites NOAA to provide an update on population and availability of the ENC viewer **(10 minutes)**.

**7.4 Cruise Lines International Association (CLIA) (TBC)*** Docs: MACHC 16-7.4
* Chair invites the CLIA representative to share his views on navigational safety and engage MACHC Members States in discussions to explore Cruise Lines requirements in this heavily traversed geographic area **(20 minutes).**

**7.5**: **C-55, CATZOC and the IHO GIS*** Presentation by IHB
* Chair invites IHB to elaborate on the relation between C-55, CATZOC and the way CATZOC is used for the IHO-GIS **(15 minutes)**

**7.6 Papers Industry and/or Nations*** Docs: -MACHC 16-07.6A “River Charts vs Coastal Charts Compilation”. 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 **(15 minutes)**
* Docs:-MACHC 16-07.6B “CARIS: Implementation of S-100 and Related Standards”. This presentation highlights the need for S-100 and focusses on implementation of S-100 in chart production **(15 minutes)**.

**This timeframe focusses on the ‘end-products’ themselves that are available to the user of the sea (primarily safety of navigation)** | MICC ChairMr. James HarperMr. Antony KlemmMs. Kim Hall IHBMr. Derrick PeytonMr. Alejandro Gerones |
| 15:30-16:00 | **Coffee Break** |  |
| 16:00-17:30 | **8. Impact of International bodies on the MACHC region****8.1 International Maritime Organisation (IMO)*** Docs: MACHC 16-08.1
* **(15min)**

**8.2 International Association off Marine Aids to Navigation and Lighthouse Authorities** **(IALA) on E-navigation*** Docs: MACHC 16-08.2
* Following 15th MACHC, chair invites IALA representative to present further development regarding E-navigation **(15min)**

**8.3 IHO-EU Network Working Group (IENWG)*** Docs: MACHC 16-08.3
* Chair invites France to provide a short back brief on developments in the IENWG (**10 min**)

**9. Impact of Regional bodies in the MACHC region****9.1 Comisión Centro Americana de Transporte Marítimo (COCATRAN)*** No formal presentation. Quickt round table on pressing issues in relation with MACHC.

**9.2 Caribbean Memorandum of Understanding (CMOU)*** Following 15th MACHC, chair invites CMOU representative to report on preliminary findings of the Concentrated Information Campaign 2015 on safety of navigation **(10min)**.

**9.3 Caribbean Disaster Emergency Management Agency*** No formal presentation. Quick round table
* Include 'sharing experience in dealing with maritime disasters’ (action 14.1.42).

**9.4.1 TSOA- General introduction*** The Hydrographic Society of America (TSOA) is now an official observer to the IHO. How TSOA in the wider picture of the IHO **(10min)**.

**9.4.2.TSOA - Latin American Chapter*** What can TSAO specifically mean for the MACHC region? **(10min)**.

**9.5 Pan American Institute of Geography and History** **(PAIGH)*** Following the 15th MACHC, chair invites PAIGH to share lessons learned and illustrate ways ahead to improve effectiveness of capacity building (**5 minutes)**.

General remarkChair invites the representatives of International and Regional Organizations to present the key (policy) developments in their organisations that affect the MACHC region.  | Mr. Colin Young (TBC)Mr. Stephen Bennett (TBC)FranceTBDAntiguaTBDMr. Paul CooperMr. Carlos TejadaMr. Paul Cooper |
| 19:00-21:00 | **Sponsored diner at the Lydia’s beach Restaurant** |  |

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| **Time** | **DAY FOUR OF MACHC16****Saturday, 12 December 2015**Business Casual (Short sleeved navy whites/short sleeved wayabera/similar)Hibiscus room | **Responsible** |
| 08:00-10:00 | **10. Regional Capacity Building (CB)****10.1 MACHC Capacity Building Committee (CBC)*** Docs:- MACHC16-10.1 CBC Report
* CBC chair/coordinator is invited to report on CB developments and challenges, and formulate proposals for consideration by members
* Mexican proposals for venue of CB-activities
* Members are invited to accepts the proposal for a Revised Terms of Reference of the CBC
* **Maximum 30 minutes**

**10.2 Feedback CBSB*** Docs:- MACHC16-10.2 CBSC12 Report
* **Maximum 15 minutes**

**10.3 International Association off Marine Aids to Navigation and Lighthouse Authorities** **(IALA) on training programs*** Docs: MACHC 16-10.3
* Following 15th MACHC, chair invites IALA representative to present further development regarding IALA training programs **(maximum 15 minutes).**

**10.4 Project of FOCAHIMECA*** Docs: MACHC 16-10.4
* New initiative with the aim to reinforce the hydrographic capability in the region **(20 minutes)**

**10.5 Papers Industry*** Docs: MACHC 16-10.5 “Introduction to the IMarEST”
* A short presentation explaining the purpose and work of the Institute of Marine Engineering, Science & Technology in the global marine sector.  A focus on how the IMarEST can support individuals and organisations in the hydrographic community through offering professional development, professional qualifications and training **(20 min**).
 | CBC ChairCBC ChairMr. Stephen Bennett (TBC)Capt Ricardo Lopez CruzMs. Charlotte Lord |
| 10:00-10:30 | **Coffee Break** |  |
| 10:30-12:30 | **11. Closing activities****11.1 AOB****11.2 Review actions and decisions****11.3 Lessons identified*** Chair invites participants to provide (procedural) issues to be taken into account for future meetings

**11.4 Next meeting*** Docs:- MACHC16-11.4 Proposal Letter(s)
* Short presentation by candidate Host Nation (s): Basil, City of Belém.
 | ChairBrazil |

**Annex**: Agenda and Time table of the 6th MACHC meeting

 **Risk assessment meeting of 9 December**

**Background**

In recent years the potential utility of GIS based hydrographic risk assessment and survey prioritisation tools has been well demonstrated. As a consequence there is a growing body research in this area being conducted by a number of organisations within in the hydrographic community. This interest reflects the broad application of these approaches in informing decision and policy making, whether it be as part of a national survey programme or focusing capacity building effort. The challenge for the hydrographic community is understand what the dependencies, limitations and opportunities are when developing these tools, and how they can be best deployed.

**Description**

This meeting will be an opportunity for participants to provide a high level brief on what work has been completed to date and to hear from colleagues what challenges, solutions and future requirements have been identified. The meeting itself will be split into two sections:

1. Participants who have conducted work on this subject will be invited to give a 5 minute flash presentation covering what they have achieved, challenges/limitations that have been identified and their view on how this work can/should be progressed.
2. A group discussion that will aim to capture:
	1. Can a consensus on minimum source data requirements be met?
	2. How could these tools be used to support Capacity Building?
	3. Is there a need to capture and provide ‘best practice’ guidance?
	4. How should this work be progressed?

The meeting will be chaired by Mr Sam Harper, UKHO International Hydrographic Projects Manager. The outcome of the meeting will be reported to the MACHC plenary session